

# EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC GROUP

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C001	COVER SHEET
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN
C100	ROADWORKS AND DRAINAGE LAYOUT - SHEET 1 OF 2
C101	ROADWORKS AND DRAINAGE LAYOUT - SHEET 2 OF 2
C200	OVERALL EARTHWORKS LAYOUT PLAN
C201	BULK EARTHWORKS LAYOUT - SHEET 1 OF 5
C202	BULK EARTHWORKS LAYOUT - SHEET 2 OF 5
C203	BULK EARTHWORKS LAYOUT - SHEET 3 OF 5
C204	BULK EARTHWORKS LAYOUT - SHEET 4 OF 5
C205	BULK EARTHWORKS LAYOUT - SHEET 5 OF 5
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2
C220	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS
C230	HAUL ROADS & CONSTRUCTION WATER DETAILS
C240	PRINCIPAL CONTRACTOR AREAS PLAN
C250	VEGETATION CLEARING EXTENTS PLAN
C300	ROADWORKS NOTES AND DETAILS
C310	KESSELS BOULEVARD LONGITUDINAL SECTION
C311	KESSELS BOULEVARD CROSS SECTIONS
C312	OLIVE AVENUE LONGITUDINAL SECTION
C313	OLIVE AVENUE CROSS SECTIONS
C314	MOSS STREET LONGITUDINAL SECTION
C315	MOSS STREET CROSS SECTIONS - SHEET 1 OF 2
C316	MOSS STREET CROSS SECTIONS - SHEET 2 OF 2
C317	BOTANICA ROAD LONGITUDINAL SECTION
C318	BOTANICA ROAD CROSS SECTIONS - SHEET 1 OF 2
C319	BOTANICA ROAD CROSS SECTIONS - SHEET 2 OF 2
C320	APPLE AVENUE LONG SECTION
C321	APPLE AVENUE CROSS SECTIONS
C322	CITRUS STREET LONG SECTION
C323	CITRUS STREET CROSS SECTIONS
C324	ELFIN LANE LONG & CROSS SECTIONS
C325	SPRING STREET LONG & CROSS SECTIONS
C330	INTERSECTION DETAILS LAYOUT - SHEET 1 OF 2
C331	INTERSECTION DETAILS LAYOUT - SHEET 2 OF 2
C340	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C341	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2
C350	ACOUSTIC FENCE LAYOUT PLAN
C400	STORMWATER DRAINAGE CATCHMENT LAYOUT
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C412	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3
C413	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4
C414	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1
C431	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2
C432	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 3
C440	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 1
C441	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 2
C442	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 3
C443	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 4
C444	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 5
C445	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1
C446	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 2
C447	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 3

C448	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 4
C449	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 5
C450	STORMWATER STRUCTURE NOTES
C451	STORMWATER STRUCTURE PLAN VIEW
C452	STORMWATER STRUCTURE CIRCULAR PIT BASE & WALLS
C453	STORMWATER STRUCTURE CIRCULAR PIT ROOF
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C512	SEWERAGE LAYOUT PLAN - SHEET 3
C520	SEWERAGE LONG SECTIONS - SHEET 1
C521	SEWERAGE LONG SECTIONS - SHEET 2
C522	SEWERAGE LONG SECTIONS - SHEET 3
C523	SEWERAGE LONG SECTIONS - SHEET 4
C524	SEWERAGE LONG SECTIONS - SHEET 5
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2
C700	OVERALL EROSION & SEDIMENT CONTROL KEY PLAN
C710	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE
C720	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS PHASE
C730	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE
C740	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2
C741	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2
C901	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2

## GENERAL NOTES

- ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
- ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
- THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
- PROOF ROLLING NOMINATED SHALL BE CARRIED OUT USING A SINGLE AXLE HIGHWAY TRUCK WITH A REAR AXLE LOAD NOT LESS THAN 10 TONNES AND TYRES INFLATED TO 550kPa OR APPROVED EQUIVALENT. EQUIPMENT LABOUR AND LOADING REQUIRED FOR PROOF ROLLING IS TO BE PROVIDED BY THE CONTRACTOR.
- THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
- THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.

## NOISE

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

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

## PRE-CONSTRUCTION & APPROVALS

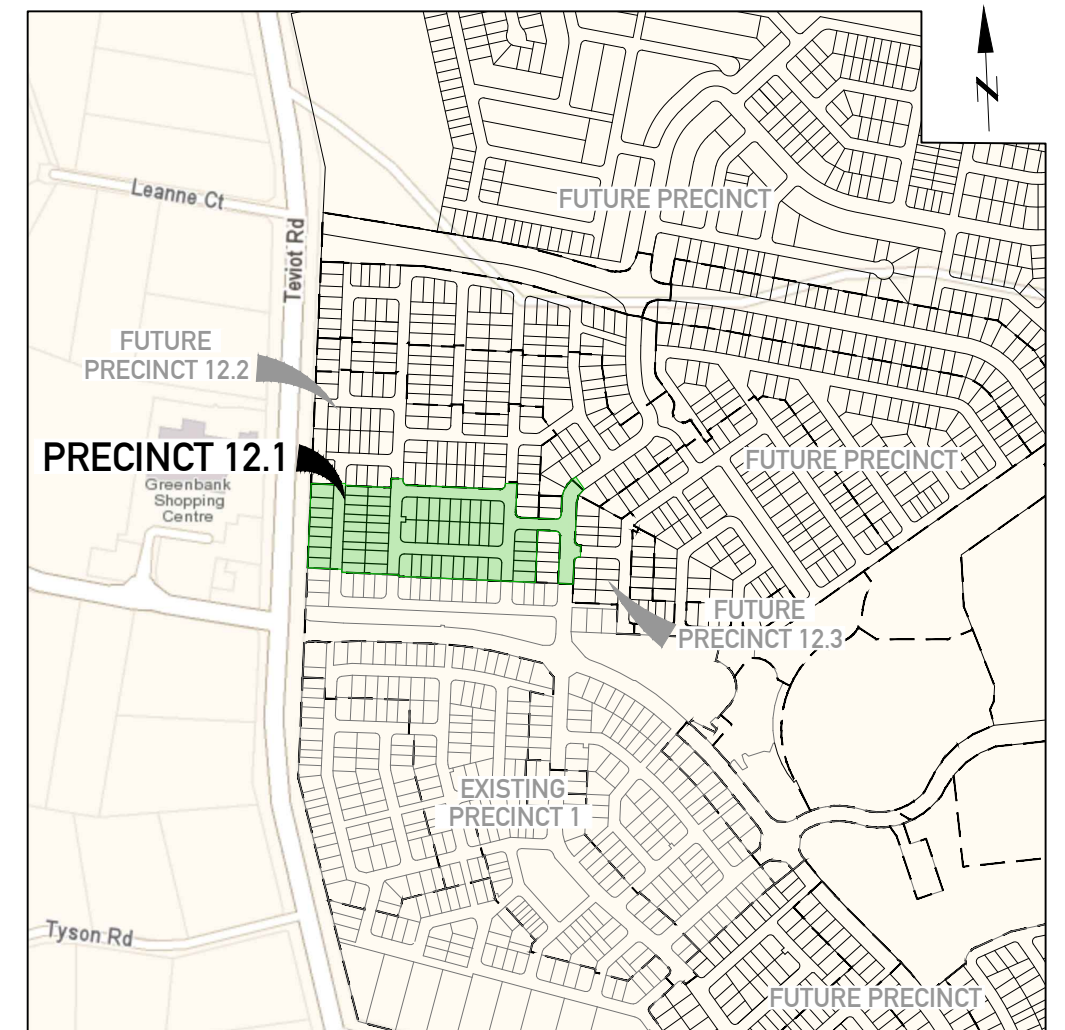
- NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE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

## WORKPLACE HEALTH & SAFETY

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

## SETOUT NOTES

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



LOCALITY PLAN  
Scale 1:5000



FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
DATE	REV	DESCRIPTION	REC APP

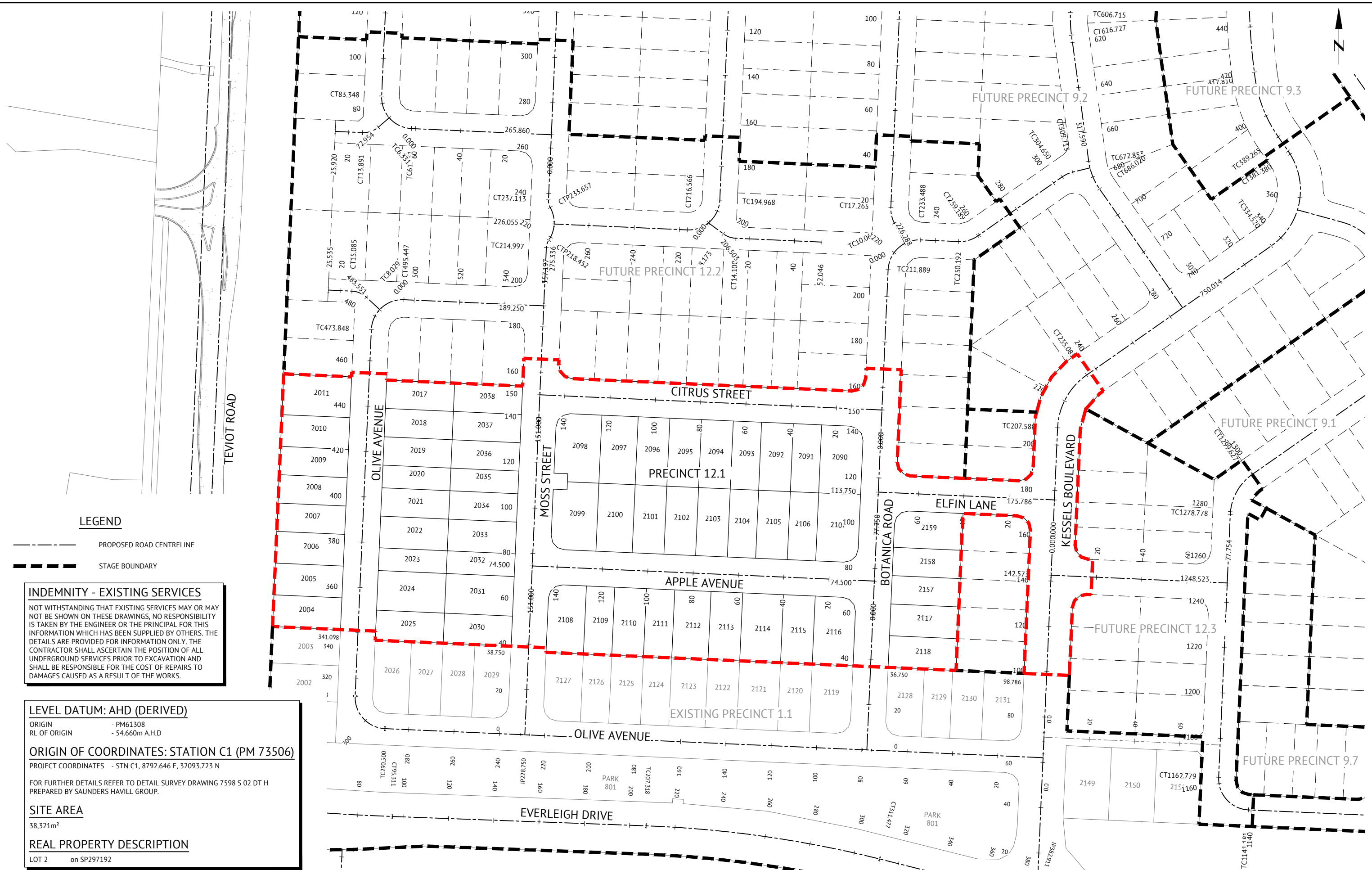
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DESIGNED  
K KIWANG  
CHECKED  
M MAJZNER  
PROJECT MANAGER  
R LLEWELYN  
PROJECT DIRECTOR  
PAT BRADY RPEQ 7112

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

CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**COVER SHEET**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C001**  
REV  
**A**



**LEGEND**

- PROPOSED ROAD CENTRELINE
- STAGE BOUNDARY

**INDEMNITY - EXISTING SERVICES**

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

**LEVEL DATUM: AHD (DERIVED)**

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

**ORIGIN OF COORDINATES: STATION C1 (PM 73506)**

PROJECT COORDINATES - STN C1, 8792.646 E, 32093.723 N

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

**SITE AREA**

38,321m<sup>2</sup>

**REAL PROPERTY DESCRIPTION**

LOT 2 on SP297192

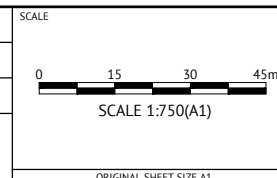
**FOR CONSTRUCTION**

DD/MM/YYYY	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



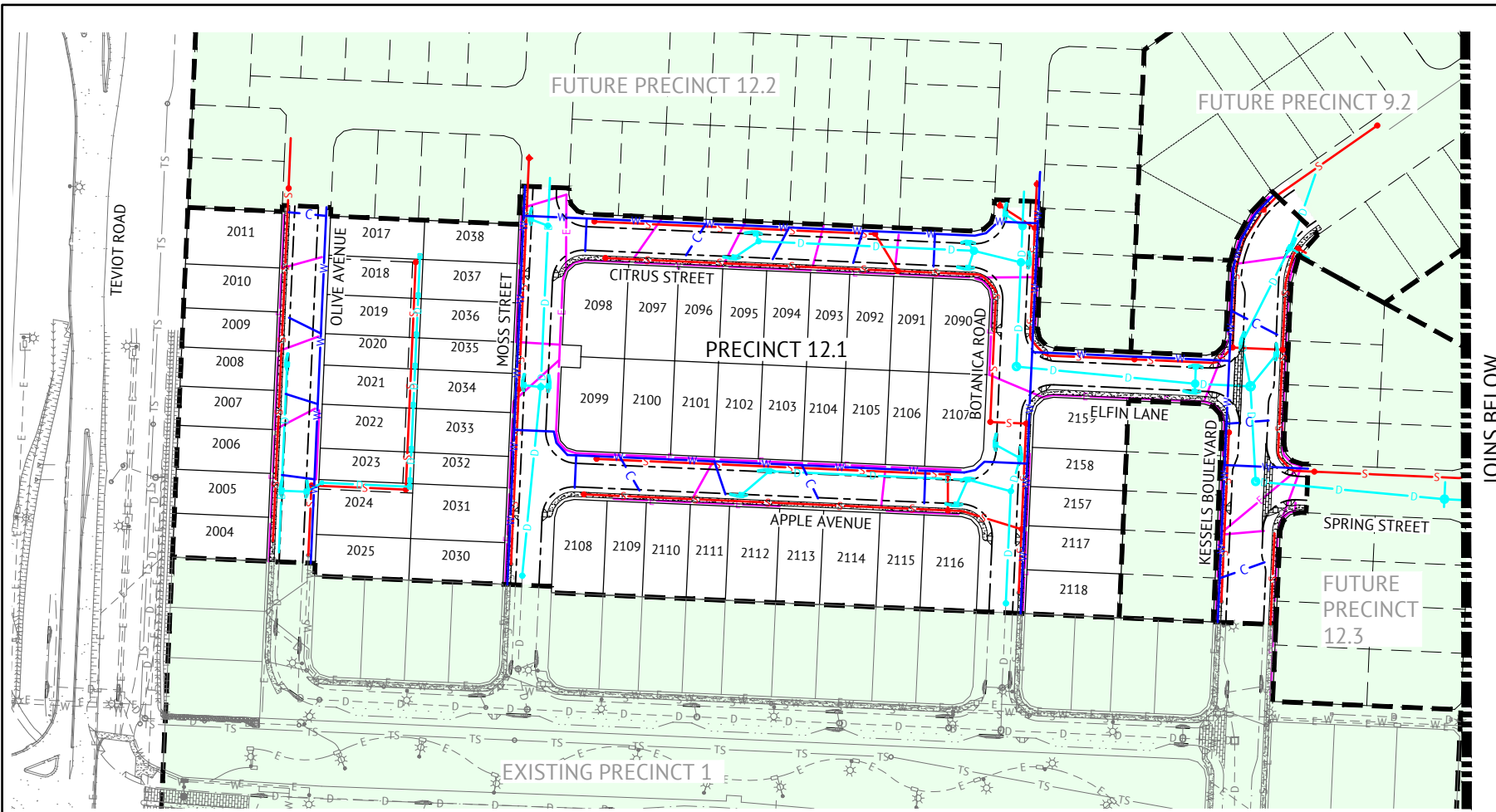
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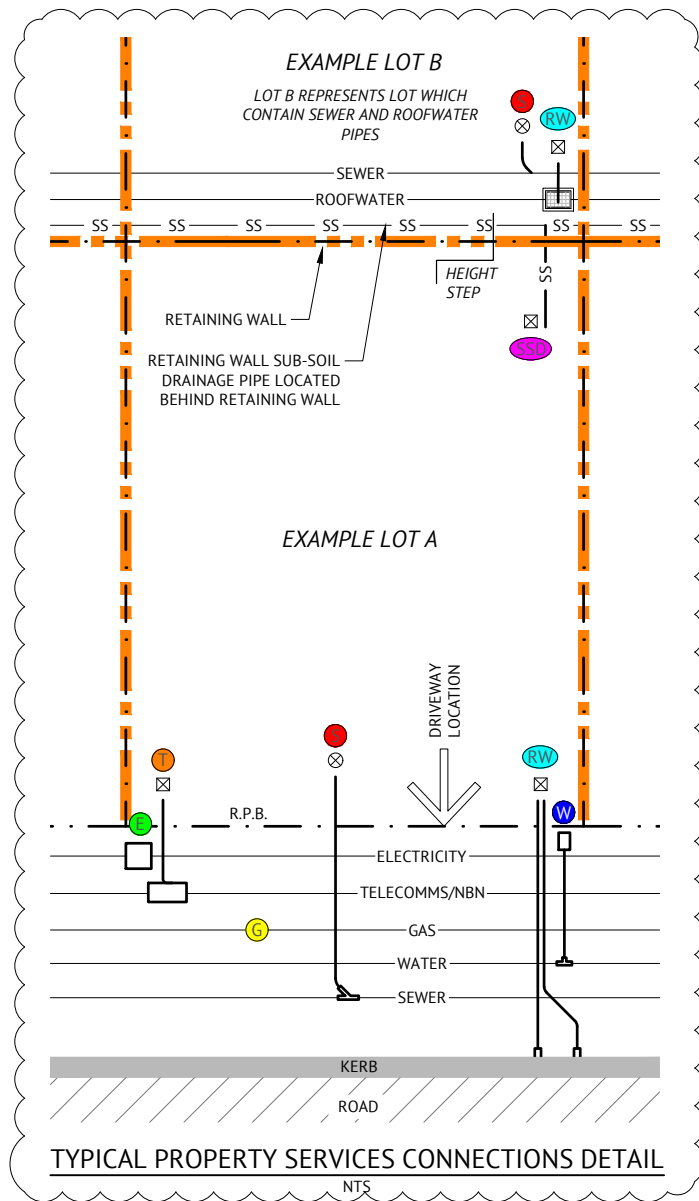


CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SURVEY SETOUT PLAN**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C002**  
 REV  
**A**



LEGEND - PROPOSED		LEGEND - EXISTING	
	STORMWATER		STORMWATER
	GRAVITY SEWER		GRAVITY SEWER
	SEWER RISING MAIN		SEWER RISING MAIN
	TRUNK SEWER		TRUNK SEWER
	WATER		WATER
	ELECTRICITY		ELECTRICITY



- LEGEND - PROPERTY SERVICE CONNECTIONS**
- WATER** - POLY SERVICE FROM WATER MAIN, METER BOX & COVER INSTALLED. BUILDER TO MAKE APPLICATION TO LOGAN CITY COUNCIL FOR METER ASSEMBLY SUPPLY AND INSTALLATION. WHERE WATER METER IS LOCATED BEHIND RETAINING WALL, 25mm POLYPIPE WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "WATER".
  - SEWER** - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 400 ORANGE PVC CONDUIT AT SURFACE (BURIED TO CAPPED PIPE). CONDUIT LABELLED "SEWER."
  - ROOFWATER** - CONNECTION LOCATION CAN BE EITHER FRONT OF LOT VIA KERB ADAPTOR OUTLET TO ROAD, OR REAR OF LOT INTO ROOFWATER DRAINAGE PIPE VIA PIT. CAPPED PVC Ø100 PIPES (BURIED MAX 1.5m) MARKED WITH 900x50x25 HW STAKE LABELLED "ROOFWATER."
  - RETAINING WALL SUB-SOIL DRAINAGE** - OUTLET POINT TO LOT FOR RETAINING WALL SUB-SOIL DRAINAGE TO BE CONNECTED TO YARD DRAINAGE BY BUILDER. Ø100 NON-SLOTTED AGG PIPE CAPPED AND TERMINATED 200m ABOVE SURFACE. PVC DUCT TAPED TO 900x50x25 HW STAKE LABELLED "RETAINING WALL SUBSOIL OUTLET".
  - TELECOMMUNICATIONS/NBN** - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".
  - ELECTRICITY** - ELECTRICITY PILLAR EXISTS IN ROAD VERGE. BUILDER TO MAKE APPLICATION WITH ENERGY PROVIDER FOR SERVICE INSTALLATION TO LOT. WHERE ELECTRICITY PILLAR IS LOCATED BEHIND RETAINING WALL, CONDUIT WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "ELECTRICITY".
  - GAS** - GAS MAIN EXISTS IN ROAD VERGE. BUILDER/HOME OWNER TO MAKE APPLICATION TO GAS PROVIDER FOR SERVICE INSTALLATION TO LOT.
  - RETAINING WALL**
  - SERVICE TERMINATION POINT MARKER. 900x50x25 HW STAKE, OR 400 ORANGE PVC CONDUIT STAKE**

TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL  
NTS

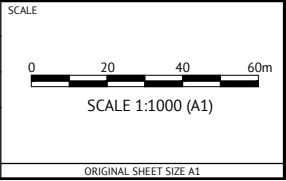
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
08/09/2020	B	AMENDED LINE COLOUR AND LINE WEIGHTS	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
PAT BRADY RPEQ 7112



CLIENT	<b>MIRVAC GROUP</b>	JOB CODE	MIR012-01
PROJECT	<b>EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT</b>	SHEET NUMBER	C003
LOCATION	<b>TEVIOT ROAD, GREENBANK</b>	REV	B
SHEET TITLE	<b>OVERALL SERVICES LAYOUT</b>		

**DESIGN HAZARD NOTES:**

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

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

**CONSTRUCTION HAZARD NOTES:**

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

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

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

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

**DESIGN HAZARD SCHEDULE**

ITEM	DESIGN HAZARD	POTENTIAL HAZARD	RISK	ELIMINATION / MINIMISATION OF HAZARD / RISK	RESIDUAL RISK
D1	URBAN LAYOUT HAZARD	THE URBAN LAYOUT IS DESIGNED AROUND A PARTICULAR HAZARD :- - INTERSECTION IS UNCLEAR WHICH ROAD HAS PRIORITY	HIGH	THE HAZARD HAS BEEN REDUCED/ELIMINATED BY:- - LINE MARKED INTERSECTION TO ENSURE IT IS CLEAR WHICH ROAD HAS PRIORITY - DESIGN VEHICLE SWEEP PATH CHECKED FOR COMPLIANCE	LOW
D2	EXISTING UNDERGROUND / OVERHEAD SERVICES HAZARD	EXISTING UNDERGROUND AND/OR OVERHEAD SERVICES HAZARD EXIST ON SITE AND NEEDS TO BE REMOVED AND RELOCATED.	HIGH	THE DESIGN OF THE PROJECT HAS INCORPORATED THE RELOCATION OF THESE EXISTING SERVICES AND THE CONTRACTOR IS TO BE MADE AWARE OF THESE EXISTING SERVICES AND TAKE ALL ACTIONS NECESSARY TO MITIGATE THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D3	DEEP EXCAVATION HAZARD	DEEP EXCAVATION IS REQUIRED TO INSTALL SEWER TO SERVICE STRUCTURE.	HIGH	THE DEEP EXCAVATION HAZARD CANNOT BE AVOIDED AND THE CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D4	HIGH RETAINING WALLS	SOME AREAS OF WORKS CONTAIN HIGH RETAINING WALLS WHERE LAND MORPHOLOGY DICTATES.	HIGH	HIGH RETAINING WALLS CANNOT BE AVOIDED DUE TO EXISTING LAND MORPHOLOGY. SINGLE TIER WALLS HAVE LIMITED TO A MAX HEIGHT OF 2m. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D5	WATER BODIES	PROPOSED CONSTRUCTION WATER DAMS WILL BE PRESENT ON SITE.	MEDIUM	PROPOSED WATER BODIES HAVE BEEN LOCATED AWAY FROM PUBLIC ACCESS AREAS. ACCESS TO THESE LOCATION WILL BE RESTRICTED FROM THE PUBLIC. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	LOW
D6	EXCAVATION AGAINST TEVIOT ROAD VERGE	DAMAGE TO SERVICES IN THE ROAD VERGE	MEDIUM	CONTRACTOR TO LOCATE EXISTING SERVICES IN VERGE AND ENSURE EXCAVATIONS DO NOT NEGATIVELY IMPACT THE SERVICES.	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	MM	PB	KK	PB	REC	APP
11/08/2020	A	APPROVAL ISSUE						
	1	PRELIMINARY - NOT FOR CONSTRUCTION						



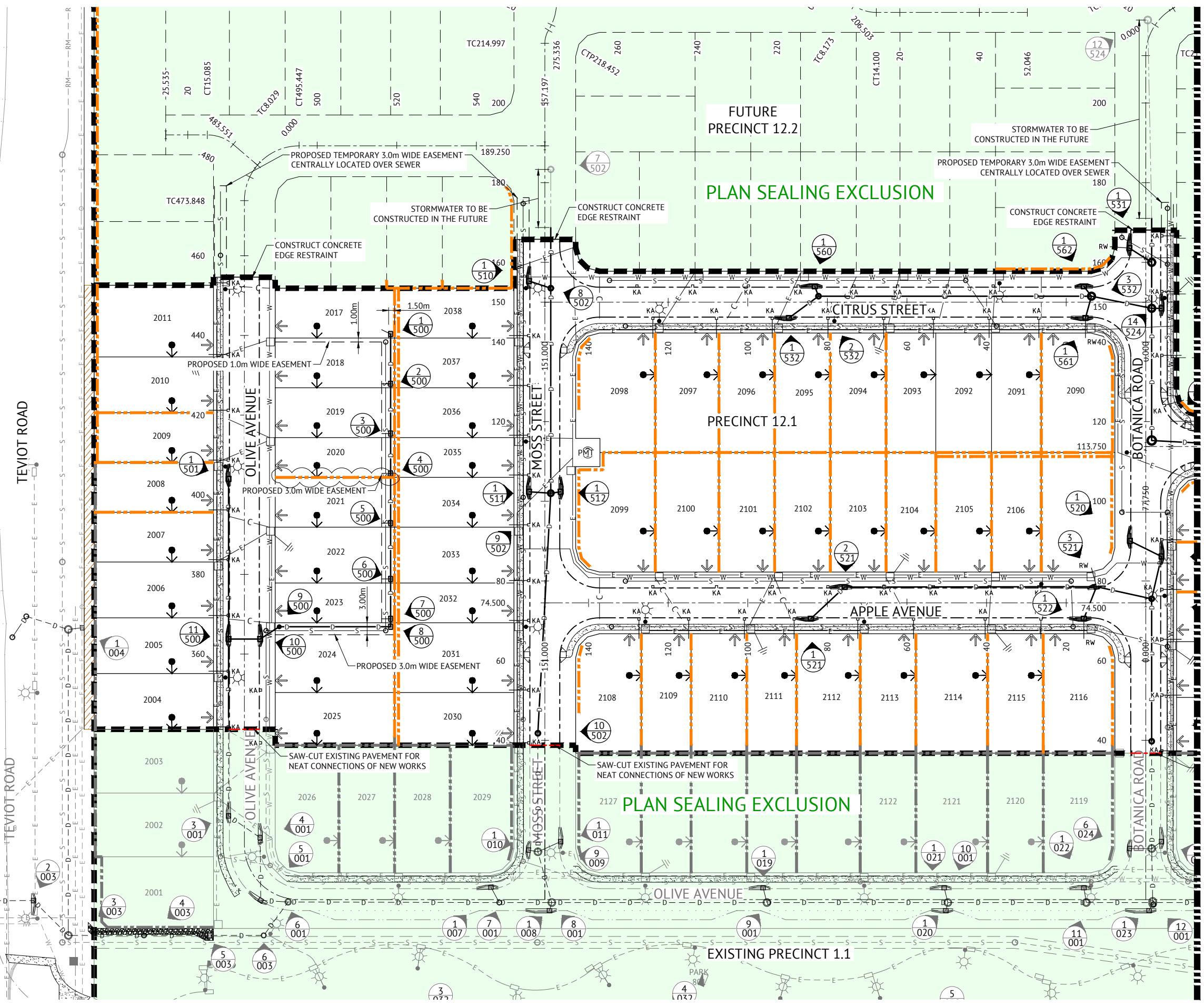
**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

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

SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SAFETY IN DESIGN**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C004**  
 REV  
**A**



**LEGEND - PROPOSED**

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

**LEGEND - EXISTING**

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

**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	REVISIONS
15/12/2020	B	ADDED RETAINING WALL	KK PB
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB

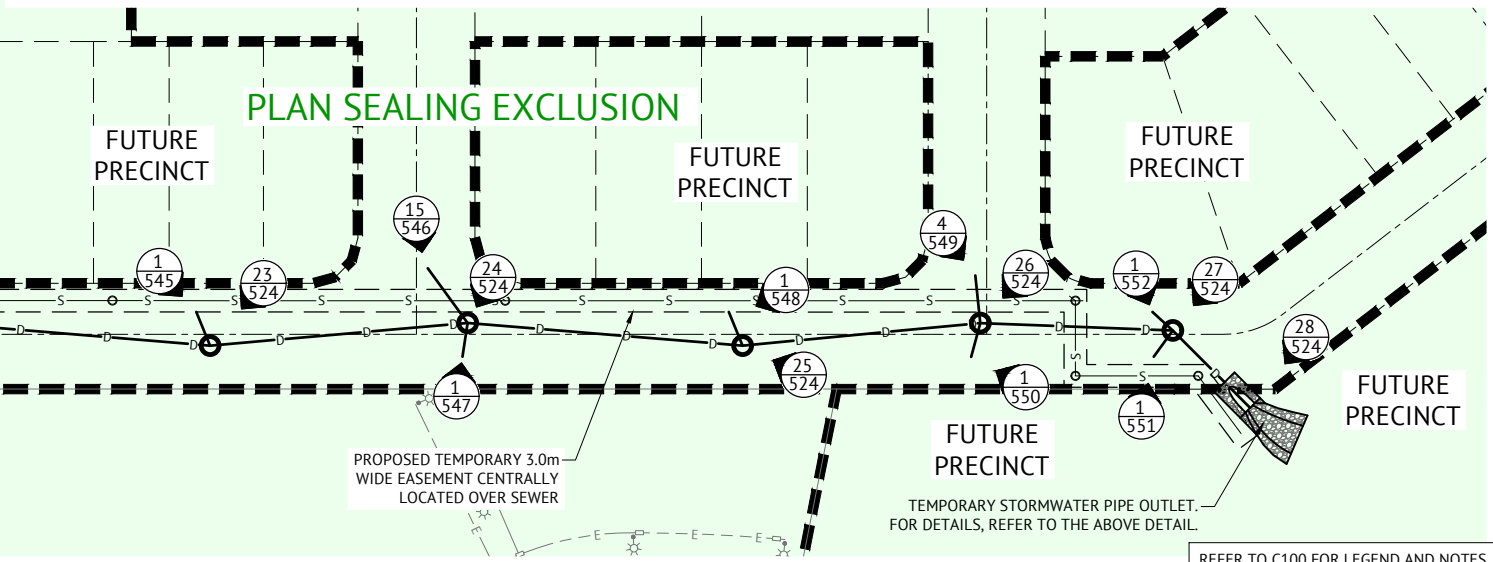
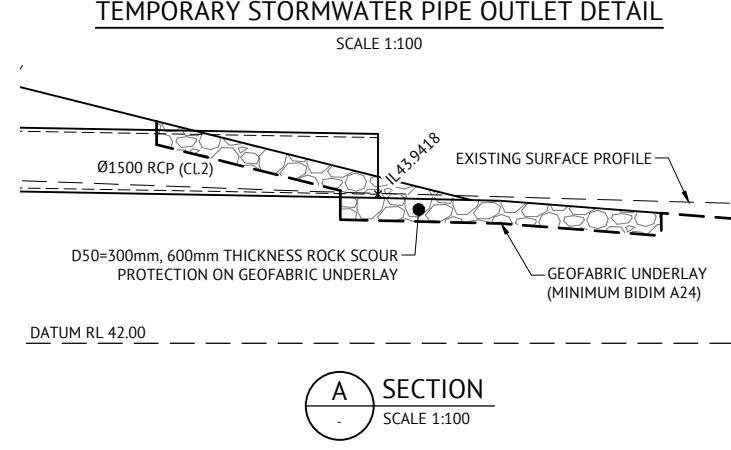
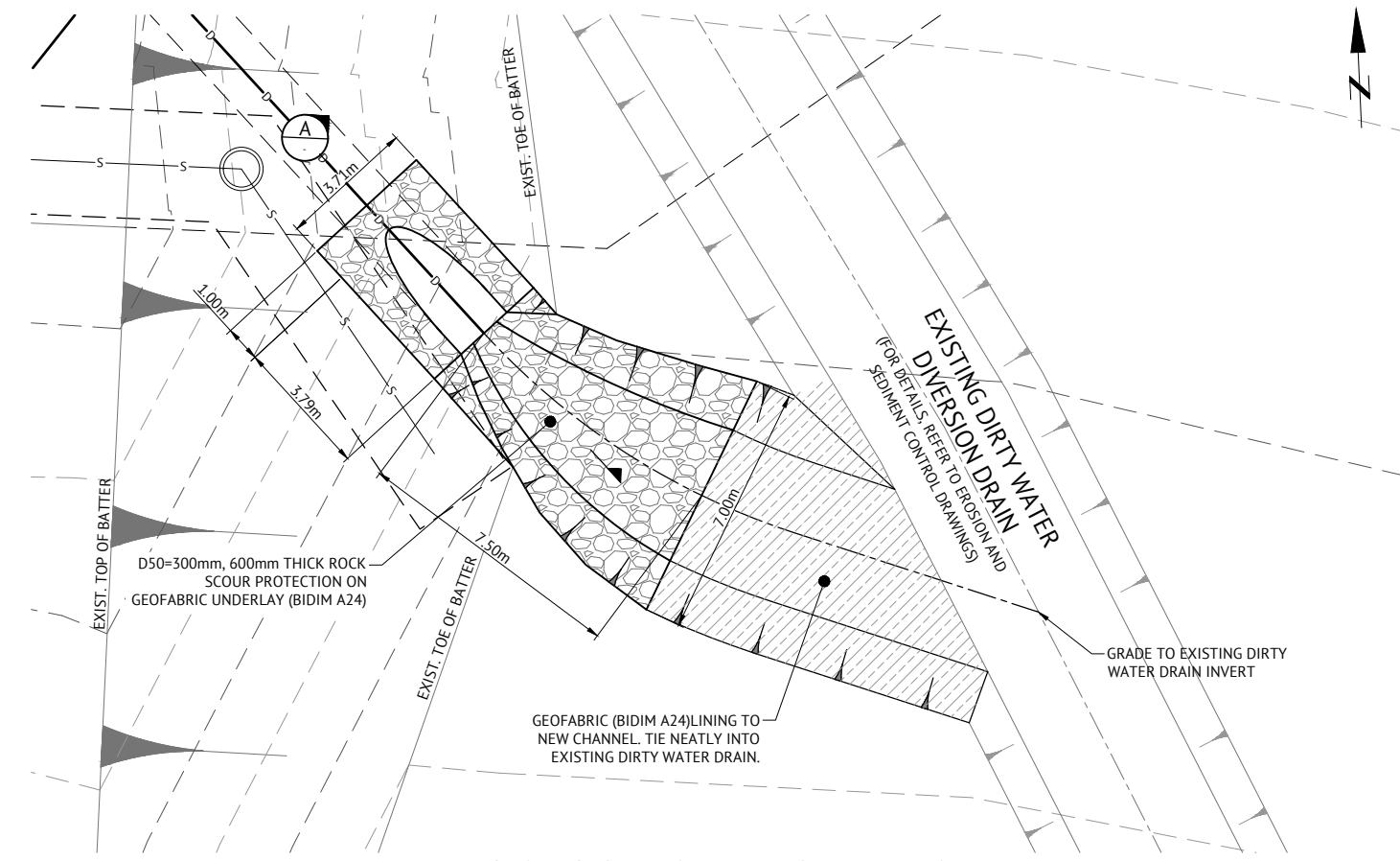
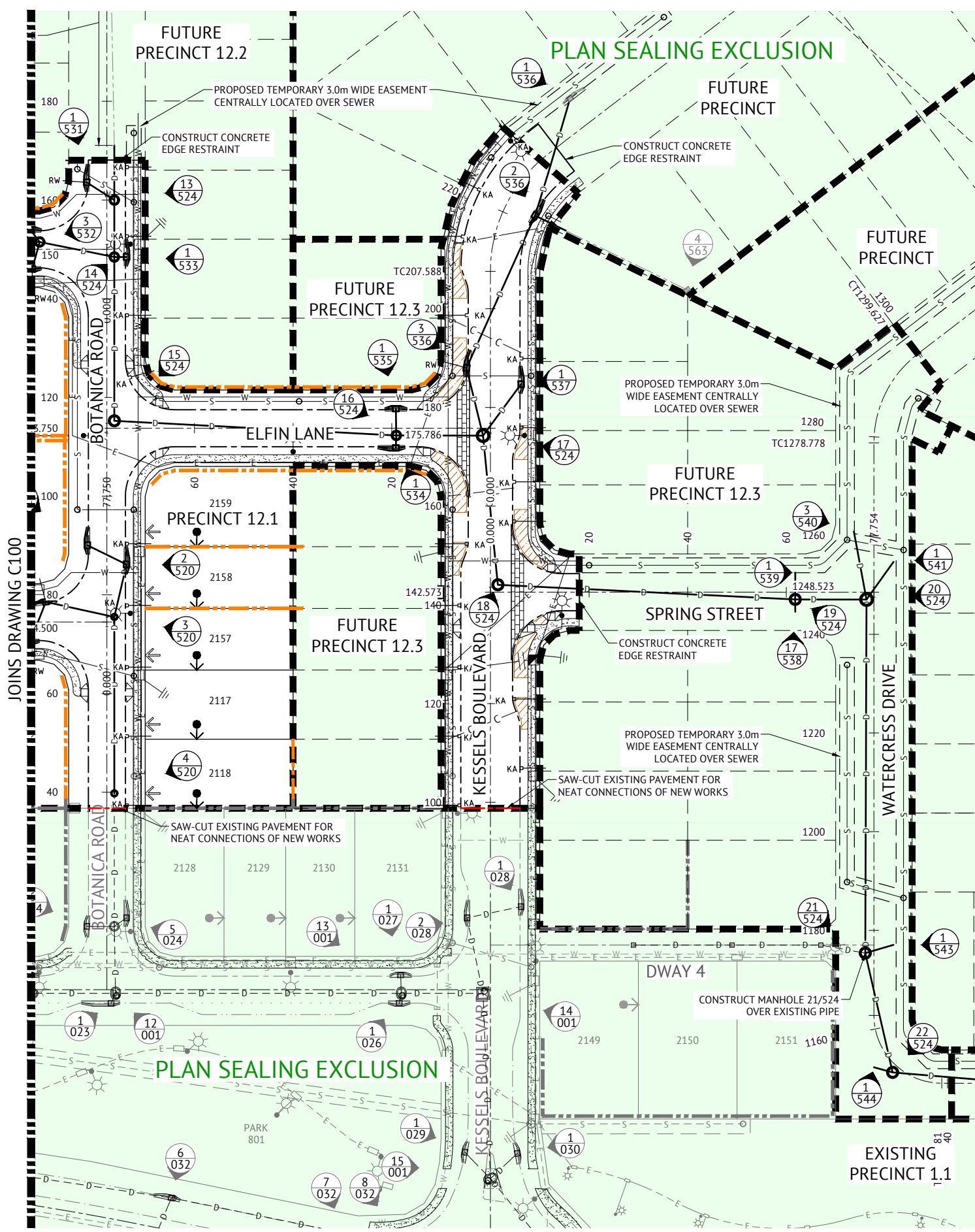
**BRISBANE OFFICE**  
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DESIGNED  
K KIWIANG  
 CHECKED  
M MAIZNER  
 PROJECT MANAGER  
C THORP  
 PROJECT DIRECTOR  
 PATRICK BRADY RPEQ 7112

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

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**ROADWORKS AND DRAINAGE LAYOUT - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C100**  
 REV  
**B**



REFER TO C100 FOR LEGEND AND NOTES

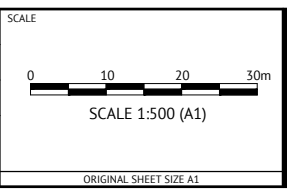
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



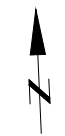
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PAT BRADY RPEQ 7112



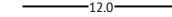



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**ROADWORKS AND DRAINAGE LAYOUT - SHEET 2 OF 2**



JOB CODE	
MIR012-01	
SHEET NUMBER	REV
C101	A



**LEGEND - PROPOSED**

-  EXTENT OF CUT
-  EXTENT OF FILL
-  12.0 FINISHED MAJOR CONTOURS (0.50m)
-  VEGETATION CLEARING EXTENT

**LEGEND - EXISTING**

-  12.0 EXISTING CONTOURS (0.50m)
-  EPBC EXCISION BOUNDARY



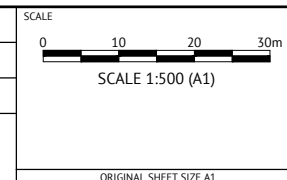
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
26/10/2020	C	AMENDED EARTHWORKS ON PARK ADJACENT ANDERSON DRIVE	KK	PB
12/10/2020	B	AMENDED ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB

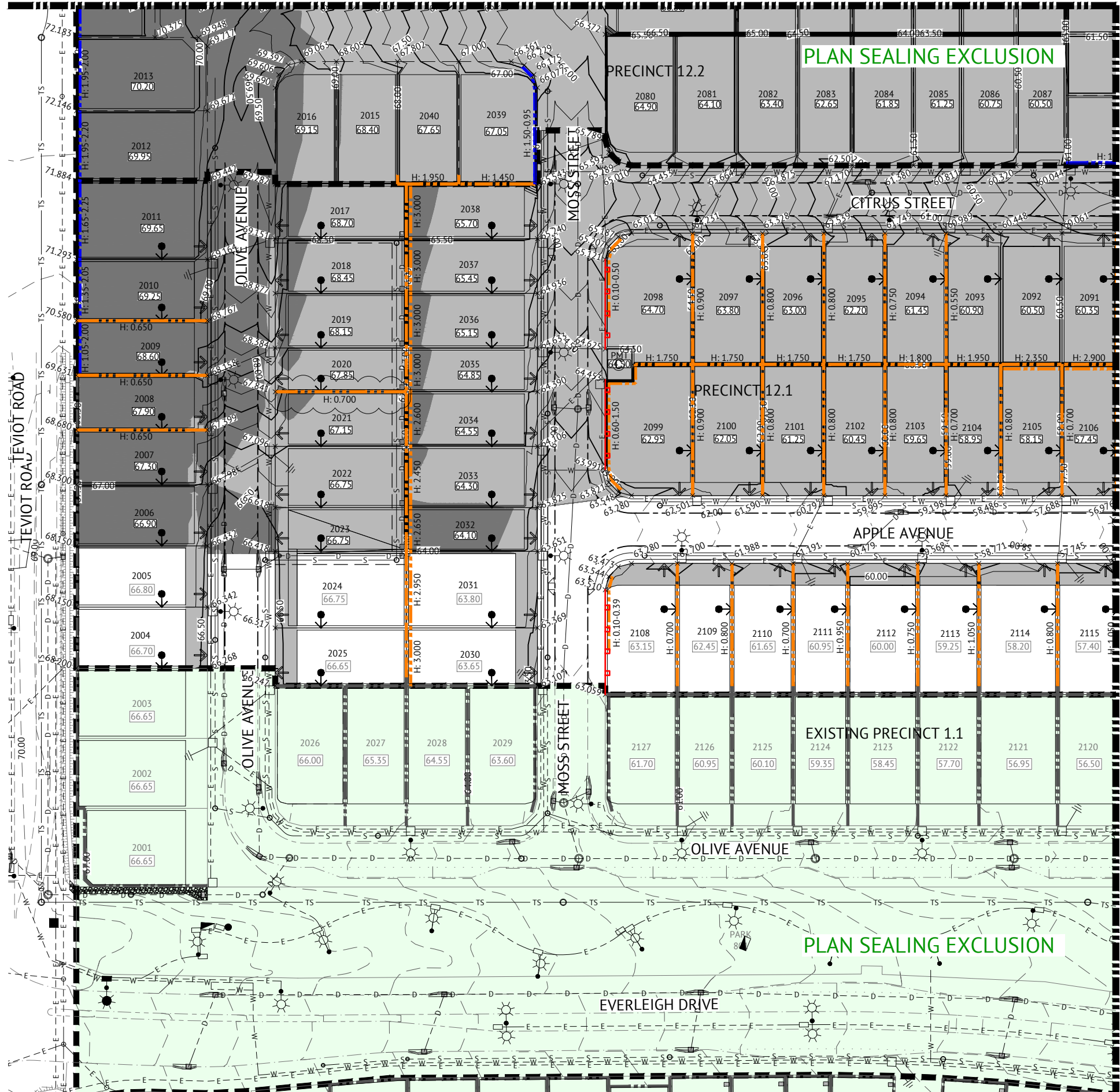


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DESIGNED  
K KIWANG  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
*PKB*  
 PATRICK BRADY RPEQ 7112



CLIENT	MIRVAC GROUP	JOB CODE	MIR012-01
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C200
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	OVERALL EARTHWORKS LAYOUT PLAN		



LEGEND - PROPOSED

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

LEGEND - EXISTING

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

NOTES

1. REFER TO BULK EARTHWORKS NOTES & DETAILS DRAWINGS FOR:
  - EARTHWORKS NOTES AND DETAILS
  - RETAINING WALL NOTES AND DETAILS
2. PROPOSED SERVICES ARE WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS AND DETAILS.
3. EXISTING DWELLINGS, FENCES ETC TO BE DEMOLISHED AND REMOVED OFF SITE BY OTHERS (UNLESS NOTED OTHERWISE)
4. FINAL RETAINING WALL TYPES AND FINISHES SHALL BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

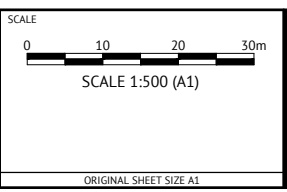
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
15/12/2020	C	ADDED RETAINING WALL	KK PB
08/09/2020	B	AMENDED NOTES AND RETAINING WALL AROUND PMT	KK PB
11/08/2020	A	APPROVAL ISSUE	MM PB
31/07/2020	2	AMENDED RET.WALL EXTENTS, PAD HINGE POINT OFFSET CHANGED TO 3M ON EX. EARTHWORKED LOTS	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
			REC APP



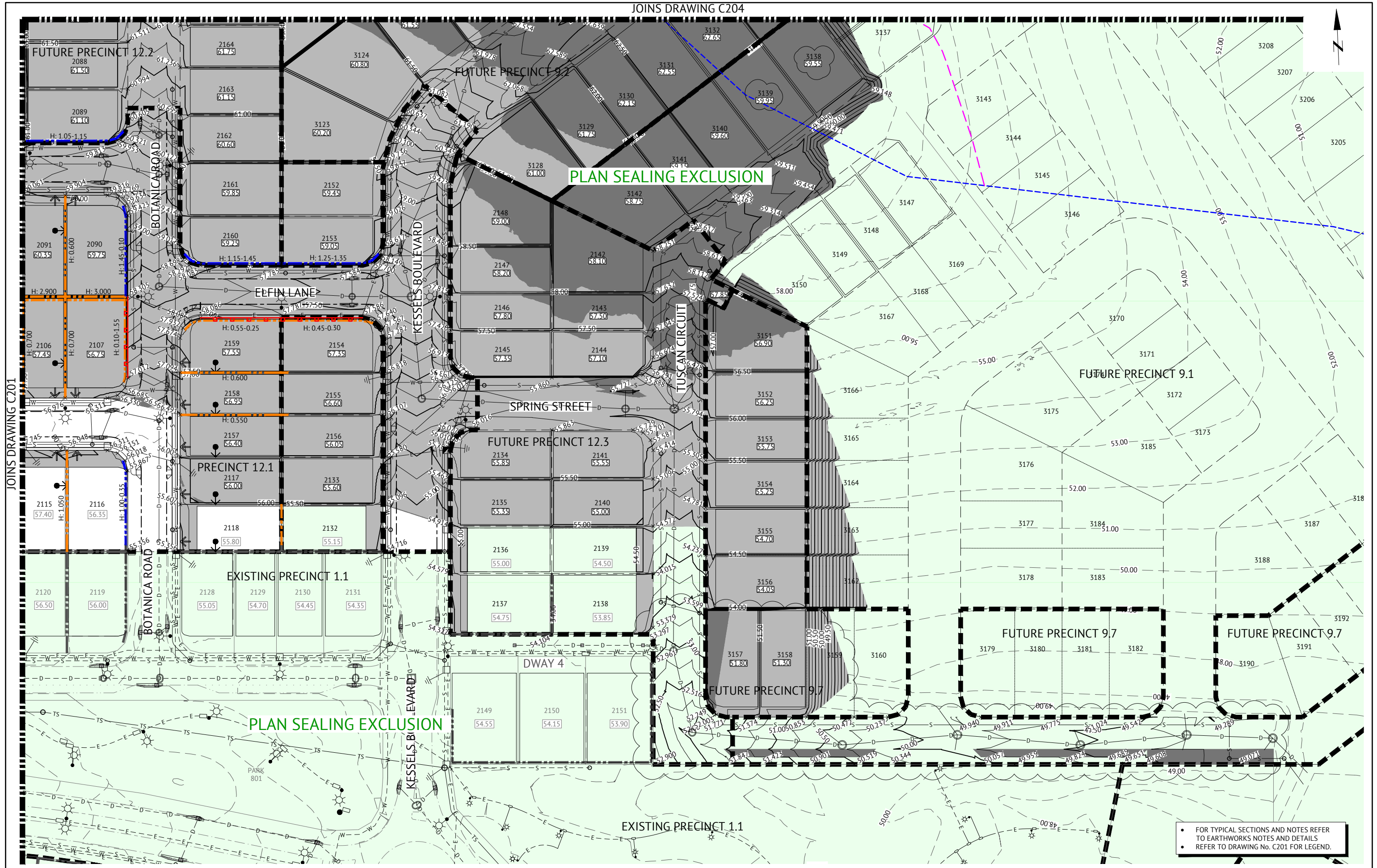
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DESIGNED  
K KIWANG  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
C THORP  
 PROJECT DIRECTOR  
 PATRICK BRADY RPEQ 7112



CLIENT	MIRVAC GROUP	JOB CODE	MIR012-01
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C201
LOCATION	TEVIOT ROAD, GREENBANK	REV	C
SHEET TITLE	BULK EARTHWORKS LAYOUT - SHEET 1 OF 5		





JOINS DRAWING C201

- FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS
- REFER TO DRAWING No. C201 FOR LEGEND.

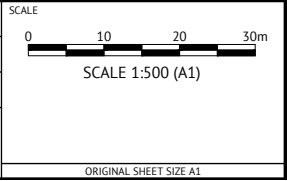
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
12/10/2020	B	AMENDED PAD LEVELS AND ROAD NAMES, ADDED SPOT LEVELS		KK	PB
11/08/2020	A	APPROVAL ISSUE		MM	PB
31/07/2020	2	AMENDED RET. WALL EXTENTS, PAD HINGE POINT OFFSET CHANGED TO 3M ON EX. EARTHWORKED LOTS		MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION		KK	PB
				REC	APP



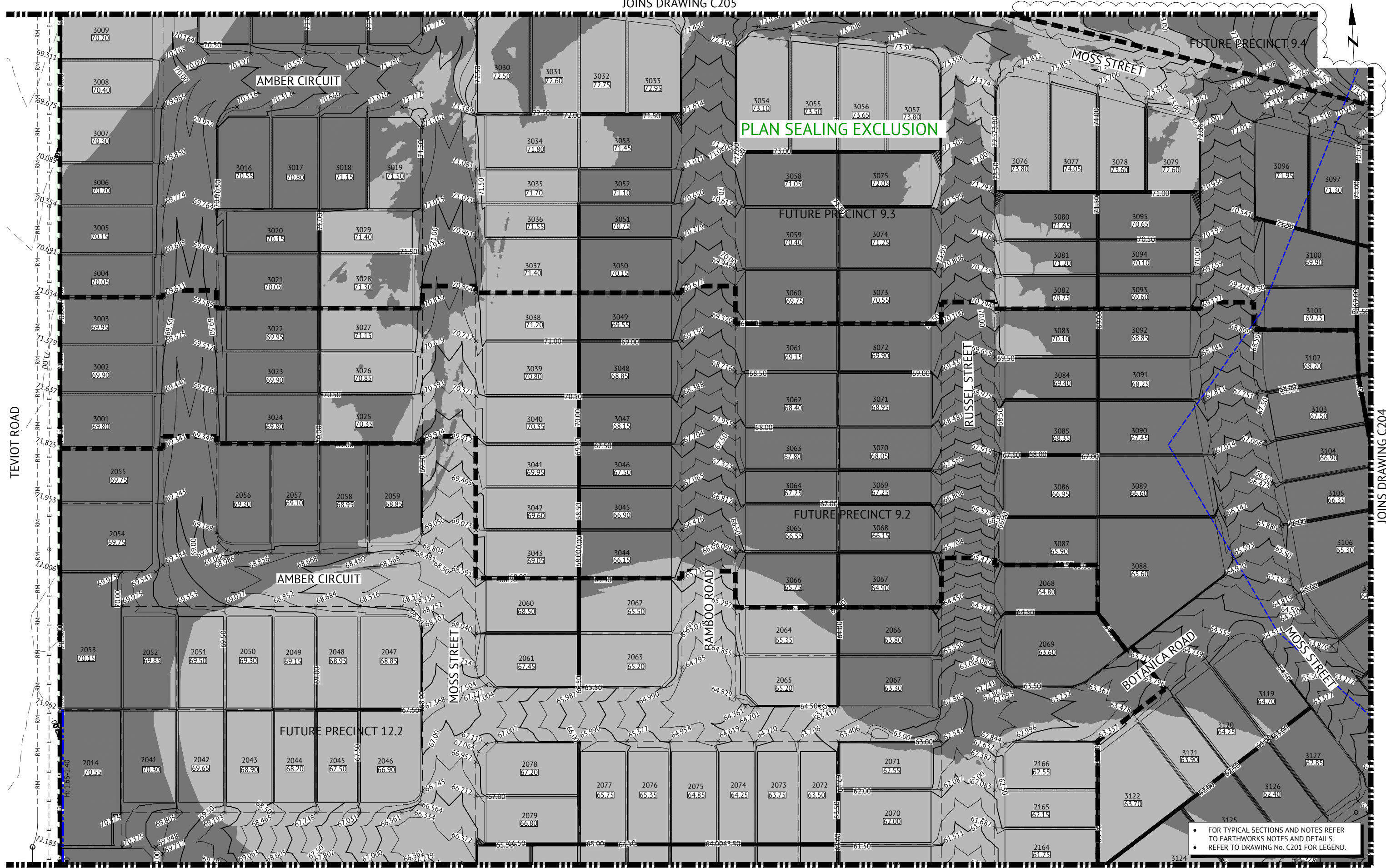
**BRISBANE OFFICE**  
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DESIGNED  
**K KIWANG**  
 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**BULK EARTHWORKS LAYOUT - SHEET 2 OF 5**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C202**  
 REV  
**B**



PLAN SEALING EXCLUSION

FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS  
REFER TO DRAWING No. C201 FOR LEGEND.

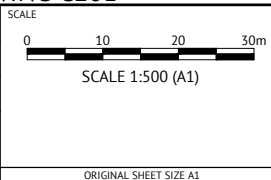
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
26/10/2020	C	AMENDED EARTHWORKS ON PARK ADJACENT ANDERSON DRIVE	KK PB
12/10/2020	B	AMENDED PAD LEVELS TO MATCH CHANGES TO LOT LAYOUT AND ROAD NAMES	KK PB
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
			REC APP



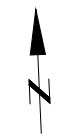
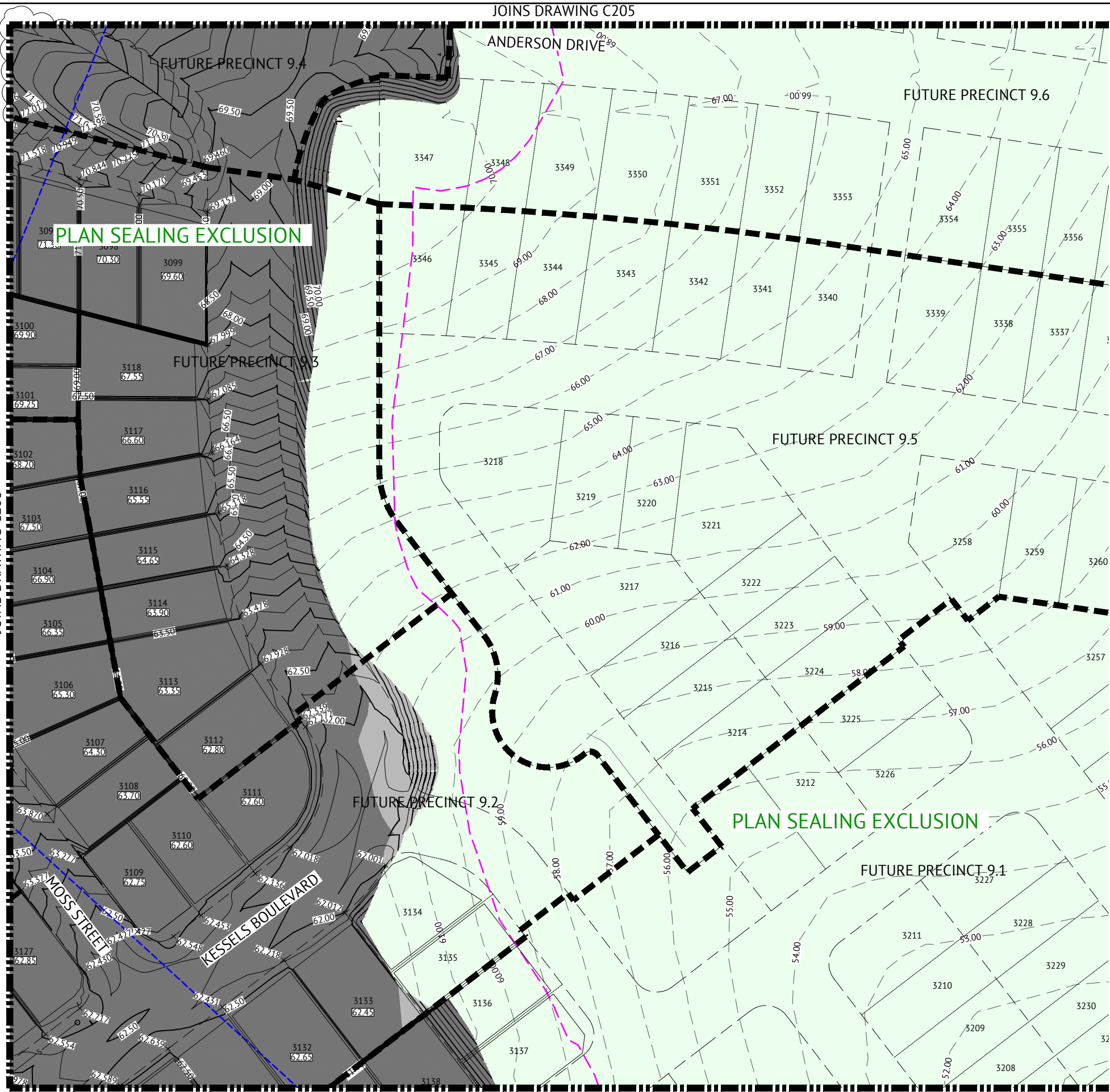
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DESIGNED  
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CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**BULK EARTHWORKS LAYOUT - SHEET 3 OF 5**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C203</b>	REV <b>C</b>



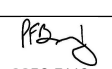
- FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS
- REFER TO DRAWING No. C201 FOR LEGEND.

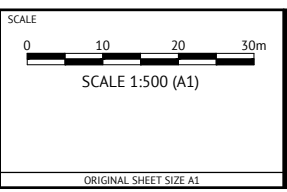
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS	REC	APP
26/10/2020	C	AMENDED EARTHWORKS ON PARK ADJACENT ANDERSON DRIVE		KK	PB
12/10/2020	B	AMENDED PAD LEVELS TO MATCH CHANGES TO LOT LAYOUT AND ROAD NAME		KK	PB
11/08/2020	A	APPROVAL ISSUE		MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION		KK	PB



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



CLIENT  
**MIRVAC GROUP**

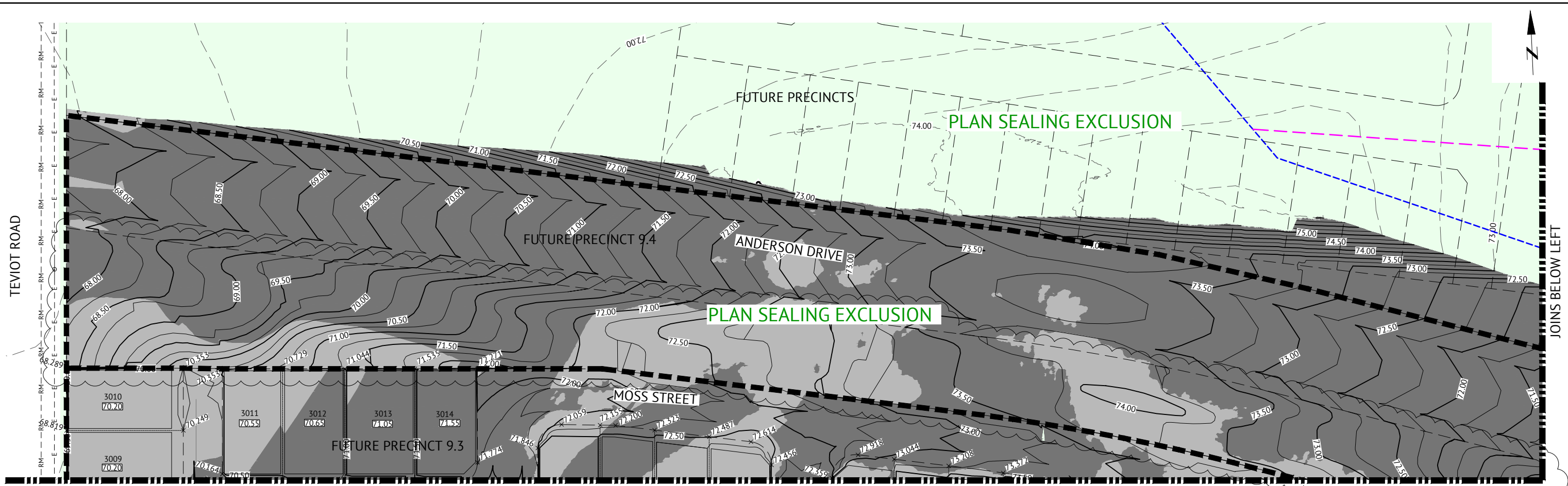
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

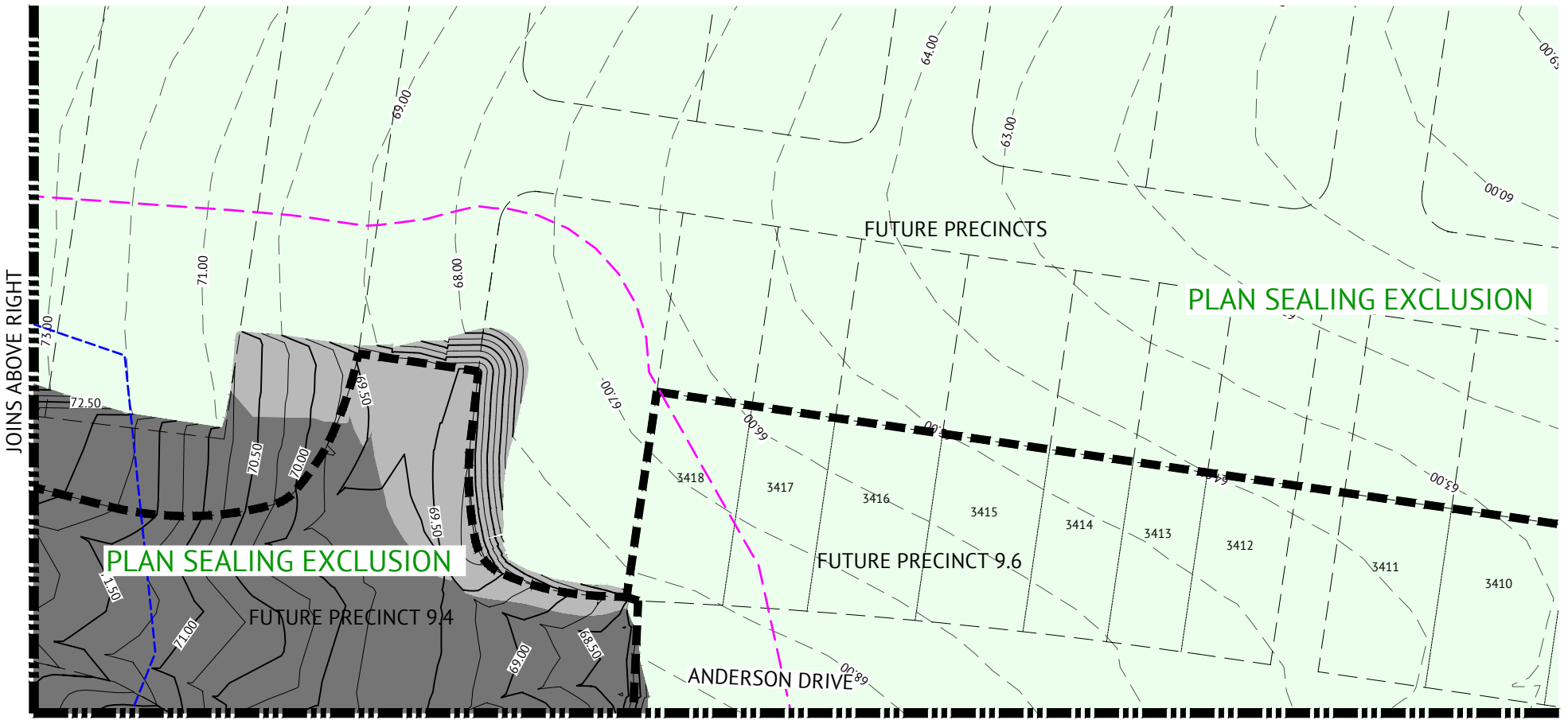
SHEET TITLE  
**BULK EARTHWORKS LAYOUT - SHEET 4 OF 5**

JOB CODE  
**MIR012-01**

SHEET NUMBER	REV
<b>C204</b>	<b>C</b>



JOINS DRAWING C203



JOINS DRAWING C204

- FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS
- REFER TO DRAWING No. C201 FOR LEGEND.

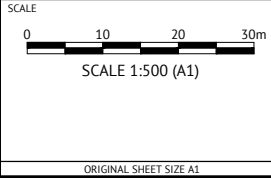
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
26/10/2020	C	AMENDED EARTHWORKS ON PARK ADJACENT ANDERSON DRIVE	KK PB
12/10/2020	B	AMENDED PAD LEVELS TO MATCH CHANGES TO LOT LAYOUT AND ROAD NAME	KK PB
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
			REC APP



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 PATRICK BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**BULK EARTHWORKS LAYOUT - SHEET 5 OF 5**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C205**  
 REV  
**C**

**NOTES**

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

**TESTING**

- THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS. FAILED TESTS WILL BE AT THE CONTRACTOR'S EXPENSE.

**EARTHWORKS TESTING**

- COMPACTION TESTS

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

- QUALITY TESTS  
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
- SUBGRADE TESTS  
THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE IN ACCORDANCE WITH LOGAN CITY COUNCIL SPECIFICATION REQUIREMENTS.

**DUST**

- NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE. DUST CONTROL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AS/NZS3580.10.1:2003. DUST CONTROL SHALL COMPLY WITH THE NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION REPORT 'APPROVED METHODS & GUIDANCE FOR THE MODELLING AND ASSESSMENT OF AIR POLLUTANTS IN NSW.'
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

**FILL MANAGEMENT**

- ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE FILL SPECIFICATION PROVIDED ON THIS SHEET, OR WHERE PROVIDED, THE REQUIREMENTS OF THE GEOTECHNICAL REPORT SPECIFIC TO THIS CONTRACT.
- THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
- ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
- PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
- DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
- ALL COMPLIANCE TESTING SHALL BE CARRIED OUT BY THE GEOTECHNICAL ENGINEER WHO WILL BE ENGAGED BY THE PRINCIPAL CONTRACTOR. ANY/ALL TESTING NECESSARY FOR GUIDANCE OR RE-TESTS WILL BE AT THE COST OF THE CONTRACTOR.
- THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
- NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
- WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
- ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON THE EROSION AND SEDIMENT CONTROL DRAWINGS.
- SITE ACCESS TO AND ACROSS THE SITE ARE SUBJECT TO SUPERINTENDENT APPROVAL.

**TOPSOIL RESPREAD REQUIREMENTS**

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

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

**TURF**

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

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

**TRENCH SPOIL**

EXCESS TRENCH SPOIL MATERIAL GENERATED BY THIS CONTRACT SHALL BE PLACED EITHER WITHIN THE FILL ZONE NOMINATED ON THE EARTHWORKS DRAWINGS OR WITHIN A FILL ZONE NOMINATED BY THE SUPERINTENDENT THAT SHALL BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCEMENT. FILL TO BE PLACED UNDER LEVEL 1 SUPERVISION AND IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION.

**TRENCH BACKFILL**

CBR15 STORMWATER TRENCH BACKFILL MATERIAL SHALL BE SOURCED FROM ON SITE EXCAVATED MATERIAL.

**EXCAVATION IN ROCK**

CONTRACT SHALL INCLUDE TREATING, SIZING, CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED TO ENSURE THAT FILL SPECIFICATION AND LEVEL ONE CERTIFICATION IS ACHIEVED.

**EVERLEIGH EARTHWORKS TOLERANCE TABLE**

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

- <sup>(a)</sup> TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.
- <sup>(b)</sup> MEASURED FROM THE AVERAGE SLOPE PLANE.

**TOLERANCE NOTES**

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

**DISPERSIVE SOILS MANAGEMENT NOTES**

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

**TOPSOIL AMELIORATION**

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

- A-GRADE QUALITY TOPSOIL AMELIORATION:**
- SCREEN STRIPPED TOPSOIL
  - ON-SITE COMPOST INCORPORATION (0.15kg/m<sup>3</sup> OF TOPSOIL)
  - DOLOMITE (15kg/m<sup>3</sup> OF TOPSOIL)
  - GRANULAR WETTING AGENT (0.5kg/m<sup>3</sup> OF TOPSOIL)
  - FERTILISER (0.4kg/m<sup>3</sup> OF TOPSOIL)
- B-GRADE QUALITY TOPSOIL AMELIORATION:**
- SCREEN STRIPPED TOPSOIL
  - DOLOMITE (15kg/m<sup>3</sup> OF TOPSOIL)
  - GRANULAR WETTING AGENT (0.5kg/m<sup>3</sup> OF TOPSOIL)
  - FERTILISER (0.4kg/m<sup>3</sup> OF TOPSOIL)

**ROCK TREATMENT IN ALLOTMENTS**

WHERE ALLOTMENTS ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 500mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL), AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.

ALL CUT LOTS WHICH ARE NOT LOCATED IN ROCK MUST ACHIEVE 100kPa BEARING CAPACITY. WHERE THIS CAN'T BE ACHIEVED, THE CONTRACTOR SHALL RECTIFY THE SUBGRADE IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION TO ACHIEVE A 100kPa BEARING CAPACITY.

**ROCK TREATMENT IN VERGES**

WHERE ROAD RESERVES ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 1000mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL) AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.



**EARTHWORKS SPECIFICATION**

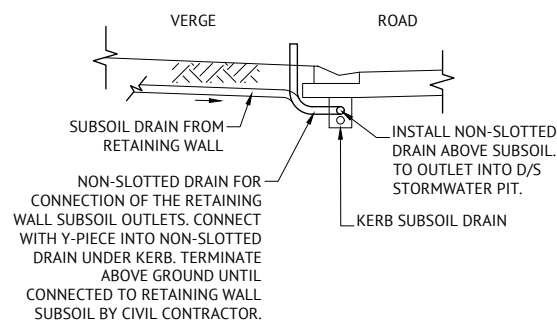
SPECIFICATION	DEPTH RANGE (m)				PAVEMENT SUBGRADE	TRENCH BACKFILL
	0.0 - 0.6	0.6 - 3.00	3.00 - 5.00	> 5.00		
CBR %	-	-	-	-	10	15
LAYER THICKNESS (mm)	300	300	300	300	BETWEEN SUBGRADE AND 0.3m BELOW	300
MAXIMUM PARTICLE SIZE (mm)	200	500	500	500	200	200
% PASSING 37.5mm	80% MIN	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES
% PASSING 0.075mm	30% MIN	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES AND AS3798
COMPACTION	95% STD	95% STD	95% STD	95% STD	100% STD	95% MOD IN ROADS AND 95% STD OUTSIDE ROADS
MOISTURE	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	60% - 90% OF OMC	+/- 2% OMC

- NOTES:**
- OMC - OPTIMUM MOISTURE CONTENT
  - LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL.
  - TREATMENT OF ROCK TO SIZES ABOVE SHOULD BE CARRIED OUT IN CUT PRIOR TO LOADING TO FILL AREAS. TREATED ROCK TO BE APPROVED BY GITA PRIOR TO TRANSPORTING.
  - UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.
  - PROOF ROLL TESTING ON EACH COMPACTED LAYER USING RUBBER WHEELED PLANT SUCH AS LOADED ADT'S OR LOADED SCRAPERS. UNFAVOURABLE DEFORMATION OF THE COMPACTED SURFACE UNDER LOAD OF ADT'S OR SCRAPERS WILL REQUIRE REPAIR PRIOR TO ADDITIONAL PLACEMENT.
  - MECHANICAL INTERLOCK METHODOLOGY IS NOT APPROPRIATE DUE TO POOR DURABILITY OF SITE WON SANDSTONE. FILL COMPOSITION IS REQUIRED TO INCLUDE AN APPROPRIATE SAND GRAVEL AND FINES COMPONENT CONFORMING TO THE REQUIREMENTS OF AS798.

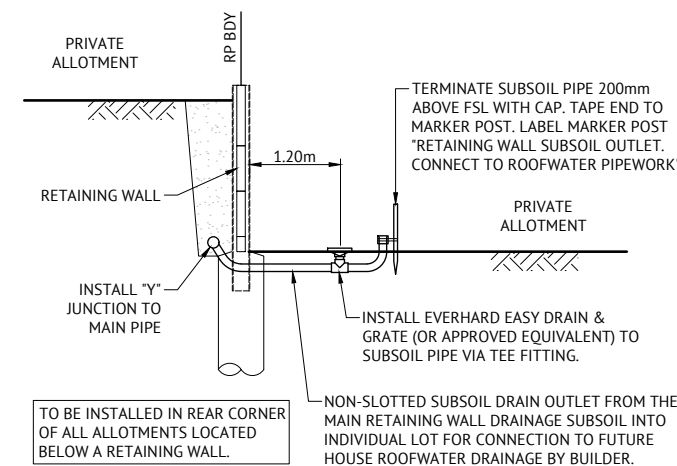
**KEY OUTCOMES FOR EARTHWORKS OPERATIONS**

- DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS
- FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m
- CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS
- BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT
- MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE
  - CUTS IN ROCK AS WELL AS BLENDED WITH
  - CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS
- CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289

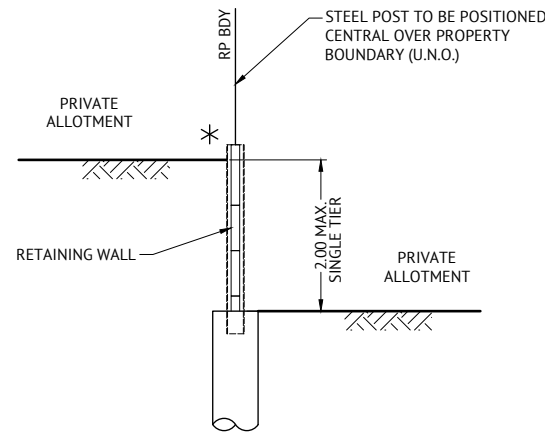
<b>FOR CONSTRUCTION</b>				 <p><b>BRISBANE OFFICE</b> LEVEL 1, 100 BRUNSWICK STREET PO BOX 361 FORTITUDE VALLEY, QLD 4006 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	DESIGNED K KIWANG CHECKED M MAJZNER PROJECT MANAGER R LLEWELYN PROJECT DIRECTOR  PAT BRADY RPEQ 7112	SCALE	<b>MIRVAC GROUP</b>		JOB CODE
08/09/2020 B AMENDED NOTES 11/08/2020 A APPROVAL ISSUE DD/MM/YYYY 1 PRELIMINARY - NOT FOR CONSTRUCTION DATE REV DESCRIPTION REVISIONS	KK PB MM PB KK PB REC APP	PROJECT <b>EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT</b> LOCATION <b>TEVIOT ROAD, GREENBANK</b> SHEET TITLE <b>BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2</b>				SHEET NUMBER <b>C210</b> REV <b>B</b>	ORIGINAL SHEET SIZE A1	MIRVAC GROUP	MIR012-01



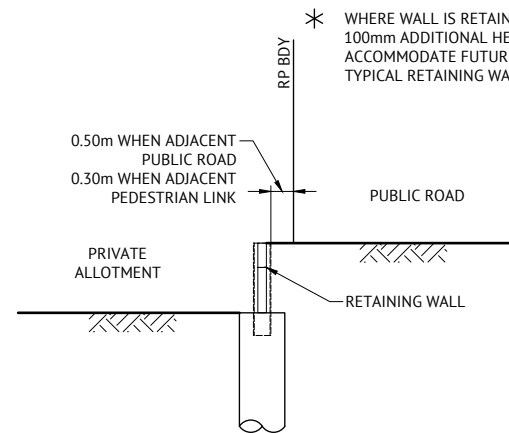
**TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD**  
N.T.S.



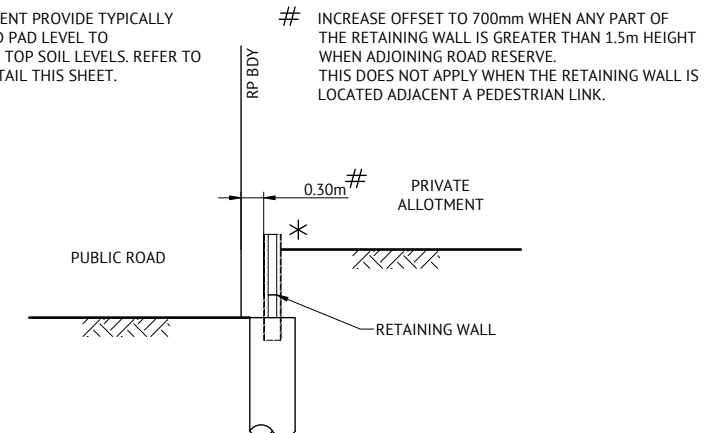
**TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS**  
N.T.S.



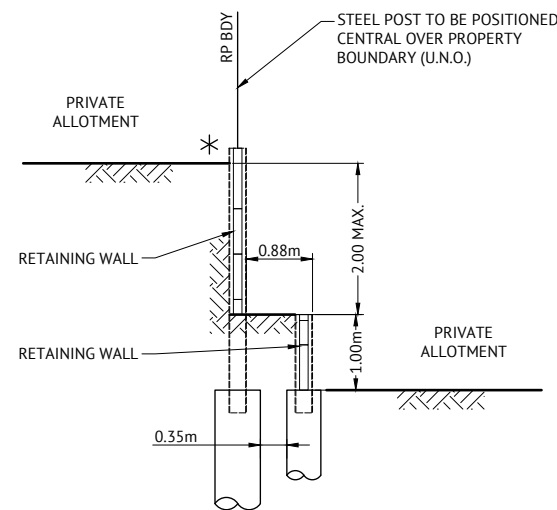
**TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT 0.4m-2m MAX HIGH**  
N.T.S.



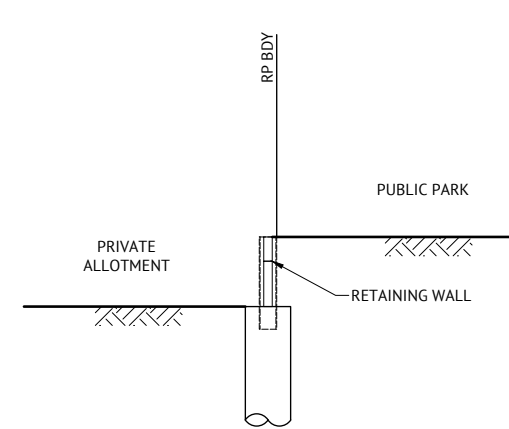
**TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER**  
N.T.S.



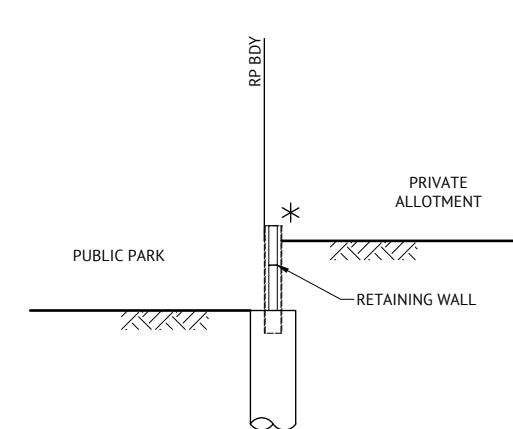
**TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER**  
N.T.S.



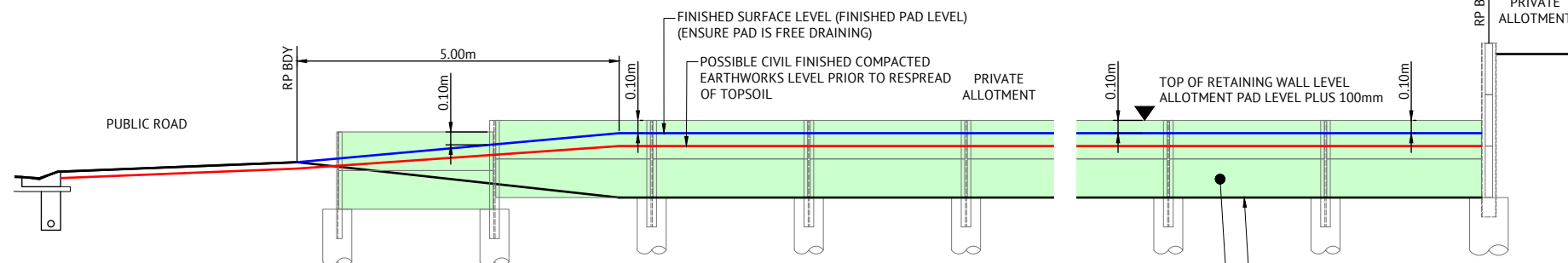
**TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT 2m-3m MAX HIGH**  
N.T.S.



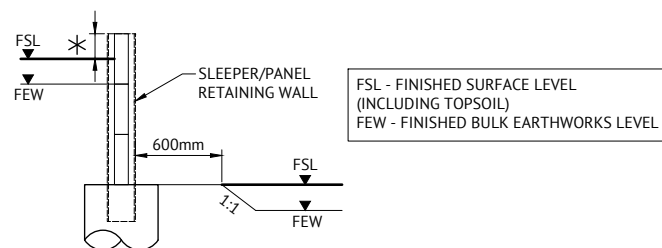
**TYPICAL RETAINING WALL DETAIL PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER**  
N.T.S.



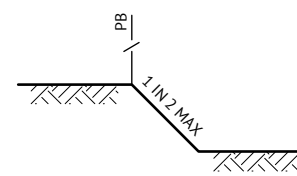
**TYPICAL RETAINING WALL DETAIL PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER**  
N.T.S.



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



**TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL**  
N.T.S.



**TYPICAL SECTION FOR BATTERS BETWEEN LOTS**  
SCALE 1:20

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

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

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

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

**PAD MOUNTED TRANSFORMER NOTE**

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

**RETAINING WALL TYPE**

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

PUBLIC FACING RETAINING WALLS:  
CONCRETE PANEL RETAINING WALL. 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER.

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

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
08/09/2020	B	ADDED NOTES	KK PB
11/08/2020	A	APPROVAL ISSUE	MM PB
31/07/2020	2	ADDED YARD GULLY TO REAR RET WALL OUTLET, MINOR NOTE CHANGE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
DATE	REV	DESCRIPTION	REC APP

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DESIGNED  
**K KIWANG**

CHECKED  
**M MAJZNER**

PROJECT MANAGER  
**R LLEWELYN**

PROJECT DIRECTOR  
**PAT BRADY** RPEQ 7112

SCALE  
NTS  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

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







JOB CODE  
**MIR012-01**

SHEET NUMBER  
**C211**

REV  
**B**



**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 (600mm BELOW PAD FSL) AND RECOMPACTED TO LEVEL ONE CERTIFICATION.

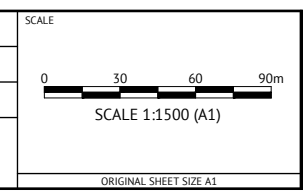
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
12/10/2020	B	AMENDED ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



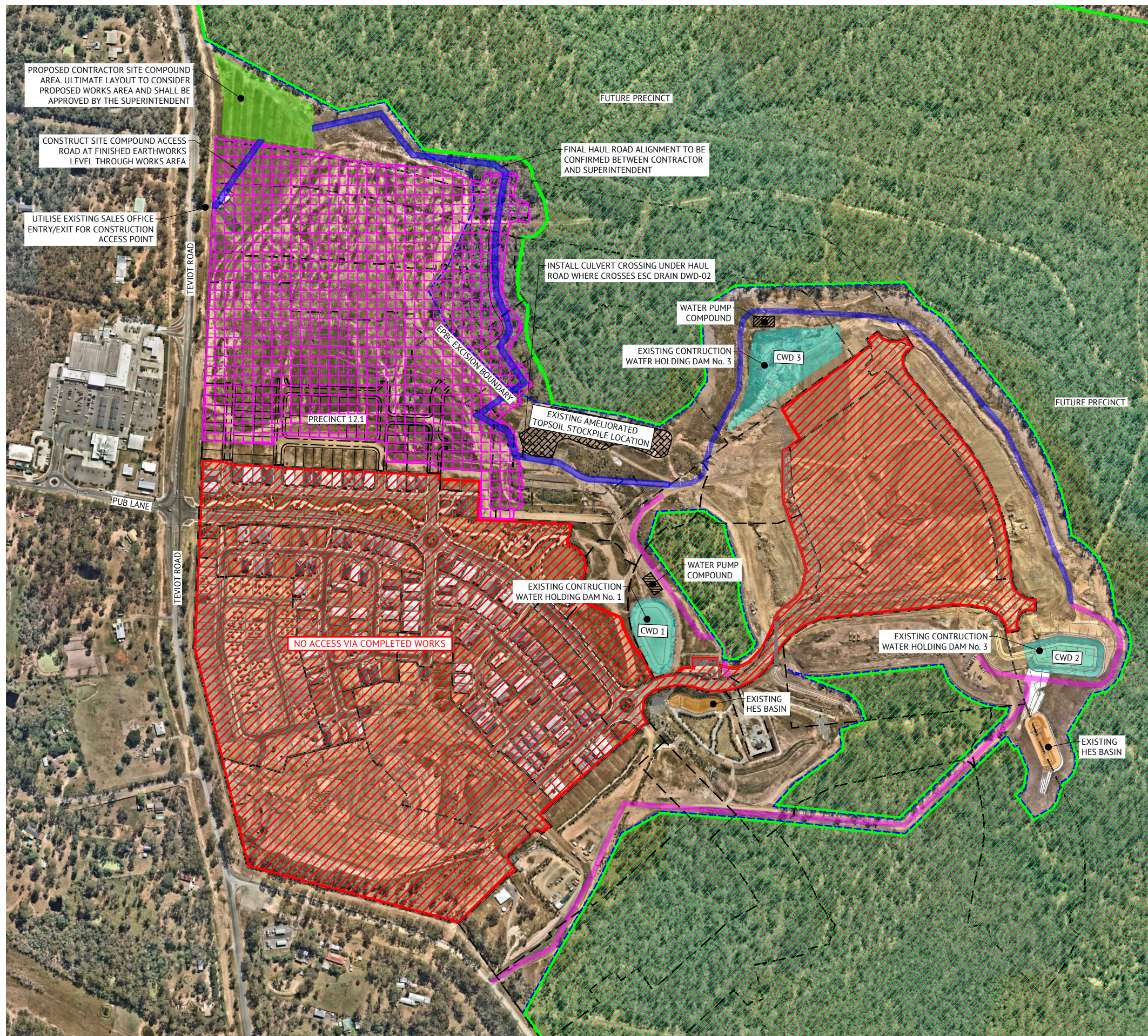
**BRISBANE OFFICE**  
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DESIGNED  
**K KIWANG**  
 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
**PAT BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C220</b>	REV <b>B</b>



**LEGEND**

- PROPOSED PERMANENT ALL WEATHER HAUL ROAD
- EXISTING PERMANENT ALL WEATHER HAUL ROAD
- PROPOSED CONTRACTOR SITE COMPOUND
- HES BASIN
- CONSTRUCTION WATER HOLDING DAM (CWD)
- WATER PUMP COMPOUND LOCATION. PROVIDE HARDSTAND WITH HIGH FLOW AND LOW FLOW PUMPING ARRANGEMENT INCLUDING ALL ASSOCIATED HARDWARE FOR DRAWING FROM ADJACENT WATER SOURCE. ARRANGEMENT TO BE SUITABLE FOR ALL WATER TRUCK TYPES.
- P12.1 EARTHWORKS AREA
- VEGETATION TO BE RETAINED



**NOTES:**

1. USE CONSTRUCTION WATER DAMS WHEN WATER IS AVAILABLE.
2. REFER TO SEDIMENT AND EROSION CONTROL DRAWINGS FOR DRAINS TO CONSTRUCTION WATER DAM ON SITE.
3. INTENT OF THE WATER RE-USE STRATEGY SHOWN ON THIS PLAN IS TO CAPTURE ALL STORMWATER FROM SITE IN THE EXISTING DAMS AND THE CONSTRUCTION WATER HOLDING DAM FOR RE-USE BY CONTRACTOR FOR ANY RELEVANT SITE AND CONSTRUCTION ACTIVITIES.
4. WHILE ALL MEASURES HAVE BEEN TAKEN TO MAKE CONSTRUCTION WATER AVAILABLE ON SITE TO THE CONTRACTOR FOR USE DURING CONSTRUCTION, IT REMAINS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR TO ENSURE CONSTRUCTION WATER IS AVAILABLE FOR ALL CONSTRUCTION ACTIVITIES RELEVANT TO THIS CONTRACT.

**NOTE:**

ALL WORKS WITHIN THE Q100 FLOOD EXTENT OF THE EXISTING CHANNEL SHALL NOT REDUCE THE EXISTING FLOODED CROSS SECTIONAL AREA AND ARE RESTRICTED TO MINOR SURFACE EXCAVATION AND SURFACE TREATMENT WORKS.

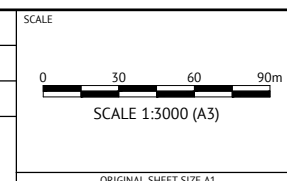
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
11/08/2020	A	APPROVAL ISSUE	MM	PB
2020/07/31	2	HAUL ROAD LENGTH AMENDED	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
				APP



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

DESIGNED  
M. MAJZNER  
 CHECKED  
M. MAJZNER  
 PROJECT MANAGER  
R. LLEWELYN  
 PROJECT DIRECTOR  
*[Signature]*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**

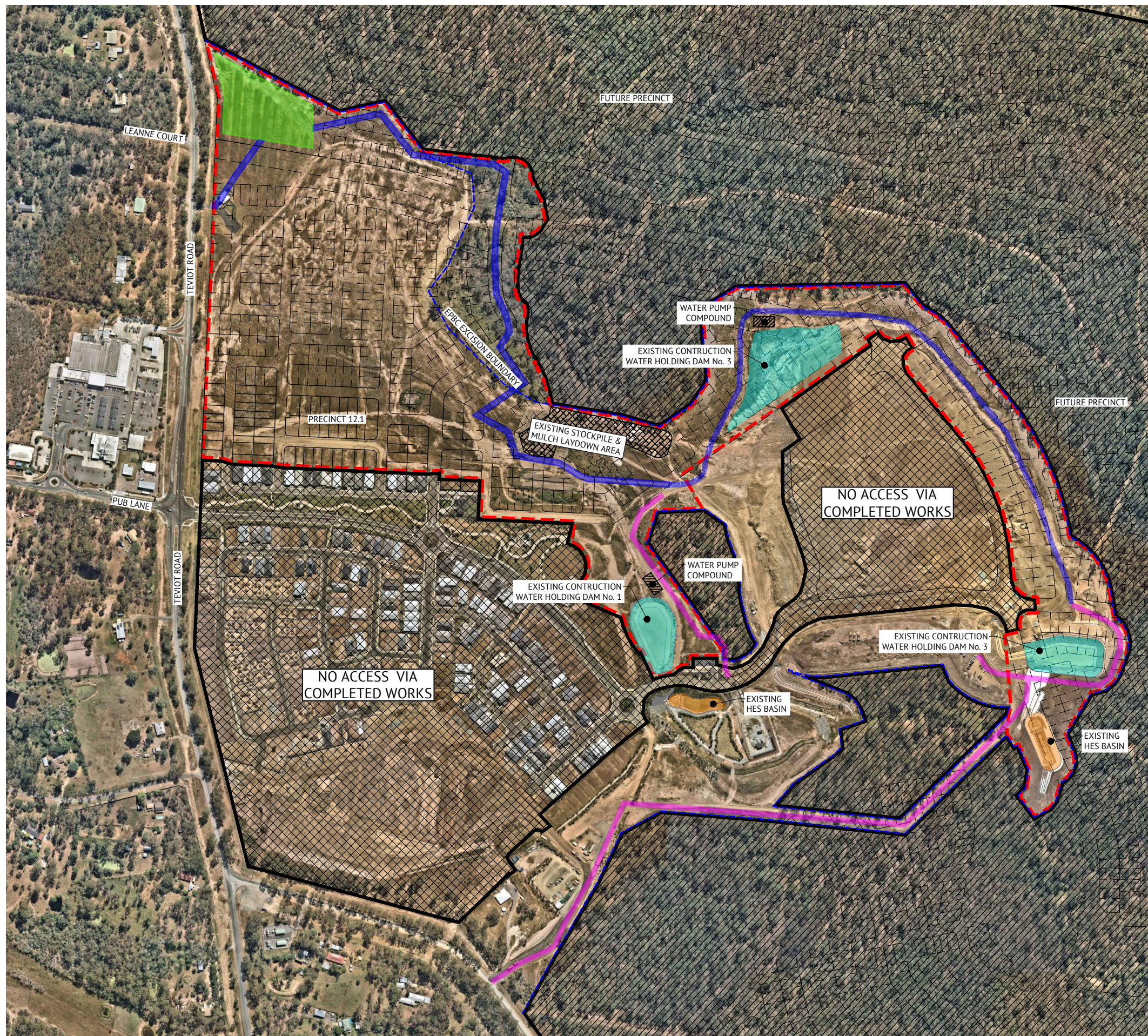
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**HAUL ROADS & CONSTRUCTION WATER DETAILS**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C230</b>	REV <b>A</b>





**LEGEND**

- - - PRECINCT 12.1 PRINCIPAL CONTRACTOR AREA
- PROPOSED HAUL ROAD
- EXISTING HAUL ROAD
- PROPOSED CONTRACTOR SITE COMPOUND
- CONSTRUCTION WATER HOLDING DAM (CWD)
- WATER PUMP COMPOUND LOCATION
- VEGETATION TO BE RETAINED



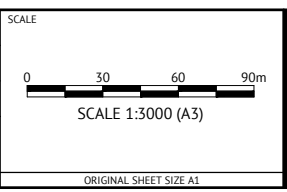
**NOTE:**  
 ALL WORKS WITHIN THE Q100 FLOOD EXTENT OF THE EXISTING CHANNEL SHALL NOT REDUCE THE EXISTING FLOODED CROSS SECTIONAL AREA AND ARE RESTRICTED TO MINOR SURFACE EXCAVATION AND SURFACE TREATMENT WORKS.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
11/08/2020	A	APPROVAL ISSUE	MM	PB
31/07/2020	2	AMENDED PC AREA TO INCLUDE CWD 3 & HES BASIN	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB

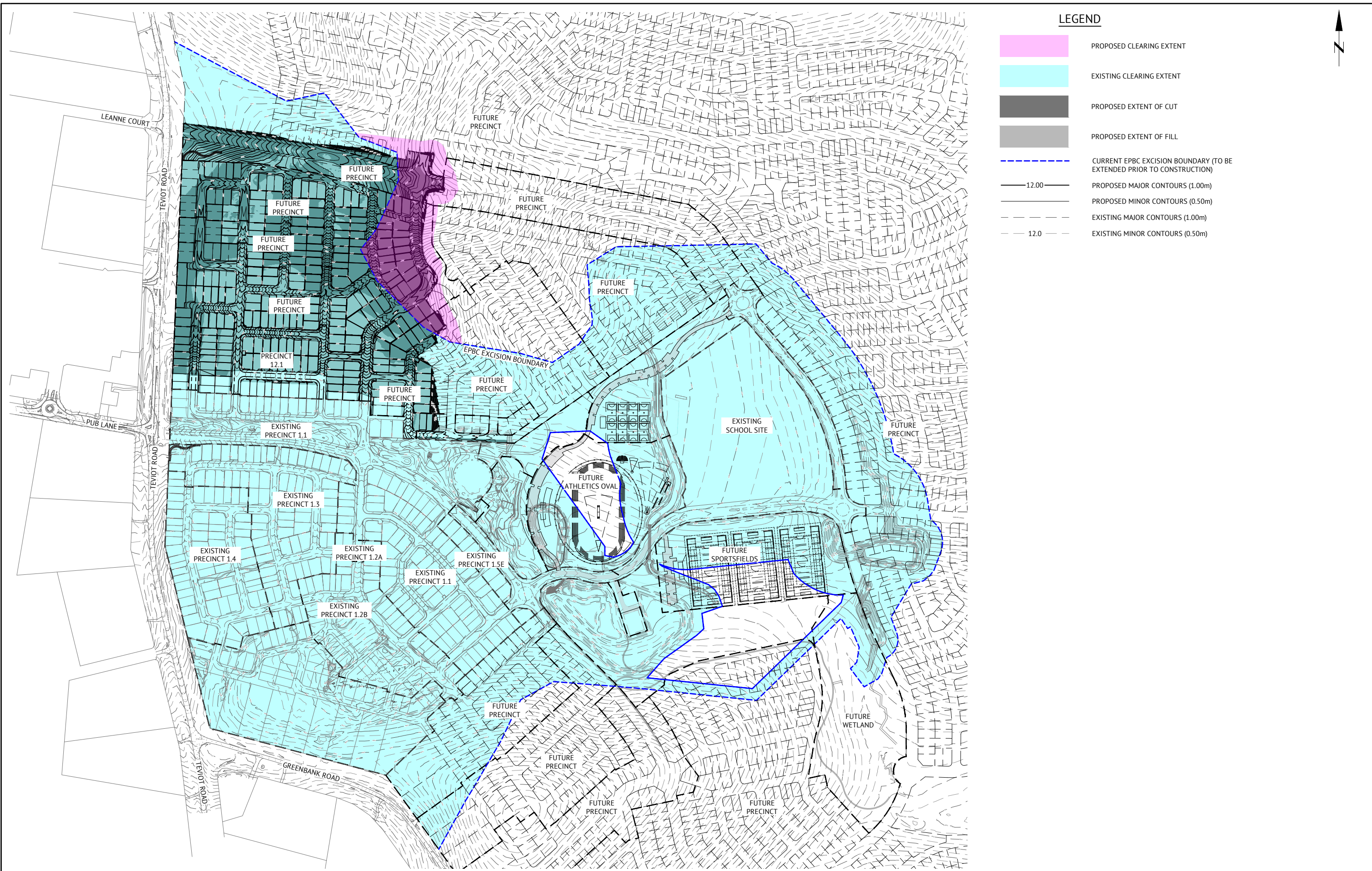
**Premise**  
 BRISBANE OFFICE  
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 PROJECT DIRECTOR  
*Pat Brady*  
 PAT BRADY RPEQ 7112



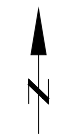
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**PRINCIPAL CONTRACTOR AREAS PLAN**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C240</b>	REV <b>A</b>



**LEGEND**

- PROPOSED CLEARING EXTENT
- EXISTING CLEARING EXTENT
- PROPOSED EXTENT OF CUT
- PROPOSED EXTENT OF FILL
- CURRENT EPBC EXCISION BOUNDARY (TO BE EXTENDED PRIOR TO CONSTRUCTION)
- 12.00 PROPOSED MAJOR CONTOURS (1.00m)
- PROPOSED MINOR CONTOURS (0.50m)
- EXISTING MAJOR CONTOURS (1.00m)
- 12.0 EXISTING MINOR CONTOURS (0.50m)



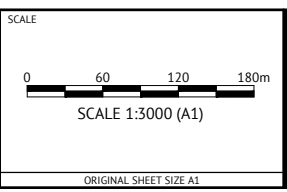
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION		
			REC	APP



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M. MAJZNER  
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R. LLEWELYN  
 PROJECT DIRECTOR  
*[Signature]*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**VEGETATION CLEARING EXTENTS PLAN**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C250</b>	REV <b>A</b>

**NOTES**

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

**ROADWORKS NOTES**

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

**CONCRETE PAVEMENT**

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

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

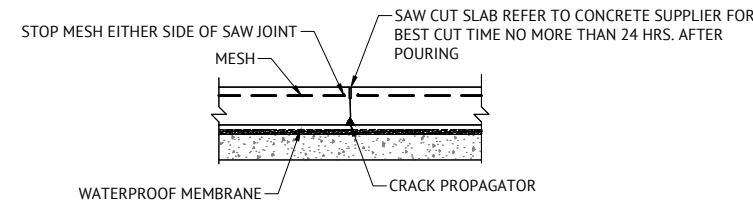
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
- PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
- CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
- ALL JOINTS ARE TO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

**CONCRETE PAVEMENT MAINTENANCE NOTES**

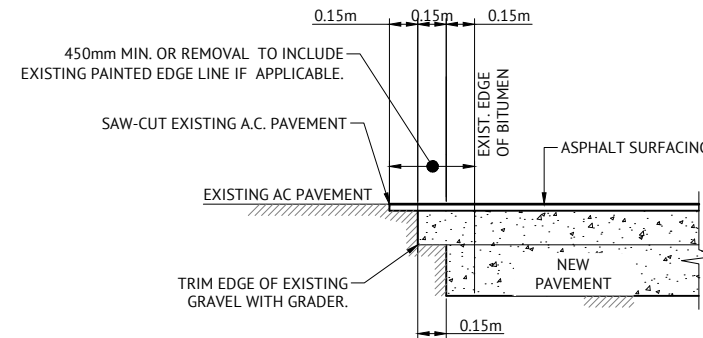
- NOTE THAT UPKEEP AND REPLACEMENT OF SEALANTS IS PART OF THE ONGOING MAINTENANCE REQUIREMENTS FOR THIS SITE.
- NOTE THAT SHRINKAGE CRACKS OF WIDTH < 1.5mm MAY OCCUR IN CONCRETE PAVEMENTS WITHIN 12 MONTHS OF INITIAL CASTING.
- NOTE THAT THE PAVEMENT WILL NOT BE MAINTENANCE FREE FOR ITS DESIGN LIFE.
-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

**CONCRETE REQUIREMENTS**

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

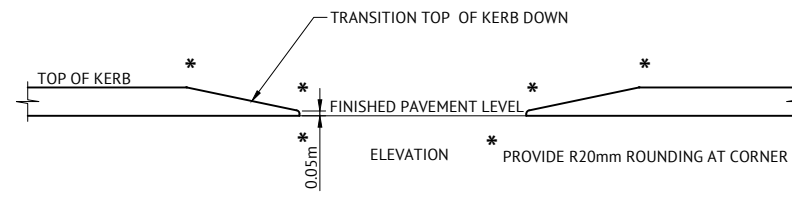


**SAWCUT JOINT (S.J.)**

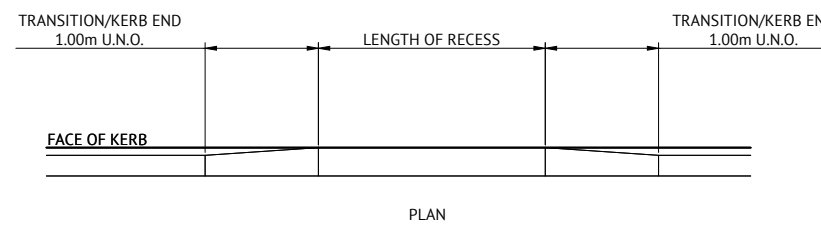


**TYPICAL PAVEMENT CUT-BACK DETAIL**

N.T.S

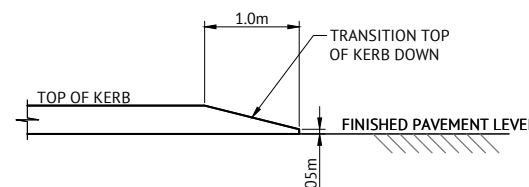


**TYPICAL KERB RECESS / END DETAIL**

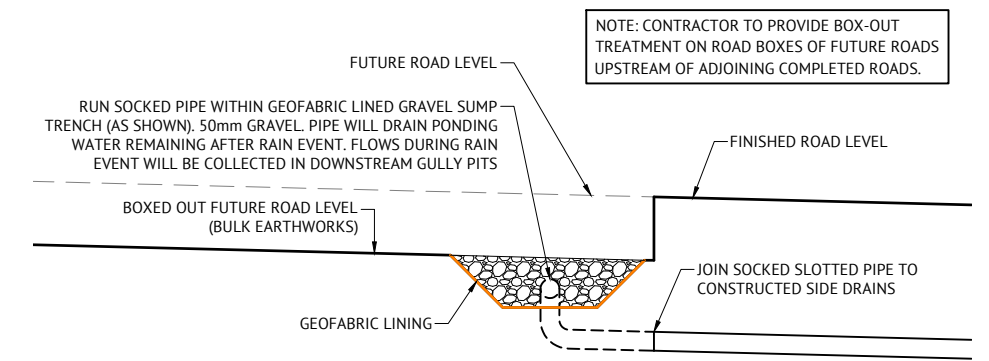


PLAN

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



**KERB END DETAIL**



**TYPICAL FUTURE ROADS BOX-OUT TREATMENT**

SCALE 1:20

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

RUN SOCKED PIPE WITHIN GEOFABRIC LINED GRAVEL SUMP TRENCH (AS SHOWN). 50mm GRAVEL. PIPE WILL DRAIN PONDING WATER REMAINING AFTER RAIN EVENT. FLOWS DURING RAIN EVENT WILL BE COLLECTED IN DOWNSTREAM GULLY PITS

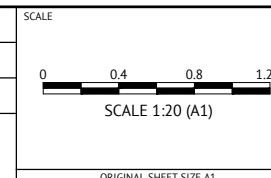
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



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DESIGNED: K KIWANG  
 CHECKED: M MAJZNER  
 PROJECT MANAGER: R LLEWELYN  
 PROJECT DIRECTOR: Pat Brady  
 PAT BRADY RPEQ 7112



CLIENT	MIRVAC GROUP	JOB CODE	MIR012-01
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C300
LOCATION	TEVIOT ROAD, GREENBANK	REV	A
SHEET TITLE	ROADWORKS NOTES AND DETAILS		

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

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)

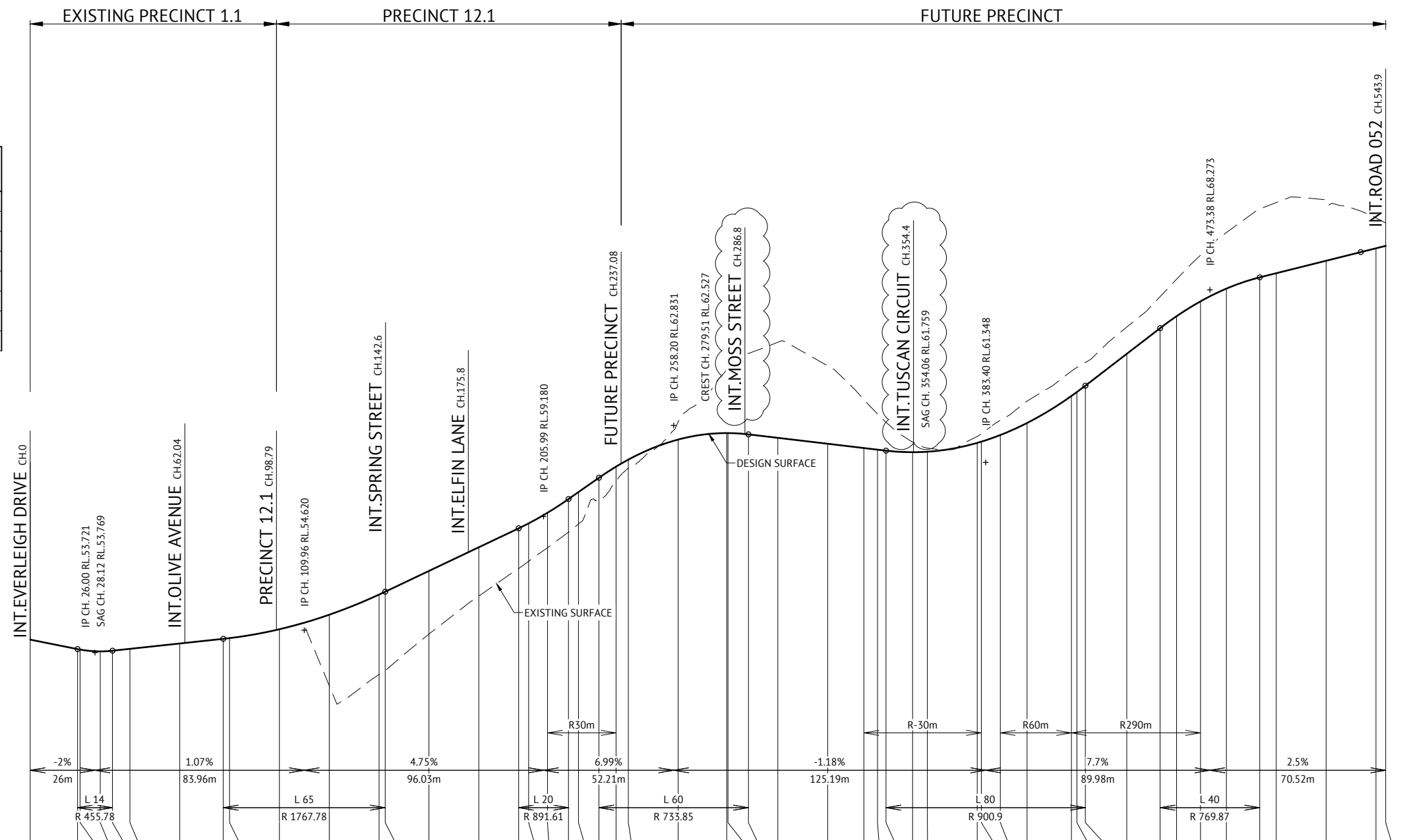
Vertical Grade Length (m)

Vertical Curve Length (m)

Vertical Curve Radius (m)

DATUM R.L.46.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000			54.241	54.241	0.00
0.000			53.861	53.861	19.00
0.000			53.842	53.842	20.00
0.000			53.769	53.769	28.12
0.000			53.796	53.796	33.00
0.000			53.871	53.871	40.00
0.000			54.085	54.085	60.00
0.000			54.272	54.272	77.46
0.002			54.301	54.158	80.00
0.003			54.657	54.654	100.00
2.845			55.240	52.394	120.00
3.206	*		56.048	52.843	140.00
3.158			56.164	53.005	142.46
2.534			56.996	54.463	160.00
1.959	*		57.946	55.988	180.00
1.610			58.706	57.095	195.99
1.520			58.762	57.385	200.00
1.405			59.188	57.927	207.59
1.326			59.736	58.554	215.99
1.282			60.016	58.878	220.00
0.893			60.590	59.840	228.20
0.588			61.039	60.594	235.08
0.344			61.320	61.119	240.00
-0.712			62.162	62.980	260.00
-2.602			62.421	65.129	279.51
-2.730			62.421	65.257	280.00
-3.245			62.332	65.720	288.20
-3.836			62.192	66.171	300.00
-3.126			61.956	65.274	320.00
-1.945			61.784	63.872	334.52
-1.427			61.719	63.289	340.00
-1.136			61.679	62.958	343.40
-0.409			61.615	62.167	354.06
-0.145			61.635	61.923	360.00
-0.259			61.989	62.391	380.00
-0.316			62.042	62.497	381.64
-0.593			62.308	63.039	389.26
-0.878			62.791	63.808	400.00
-0.997			63.909	65.011	417.81
-0.987			64.070	65.159	420.00
-0.934			64.324	65.361	423.40
-1.075			65.565	66.780	440.00
-1.266			66.595	68.000	453.38
-1.482			67.076	68.697	460.00
-1.850			67.709	69.660	469.59
-2.249			68.221	70.571	480.00
-2.737			68.667	71.510	493.38
-2.836			68.837	71.774	500.00
-2.368			69.438	71.807	520.00
-1.221			69.938	71.159	540.00
-0.918			70.036	70.954	543.90

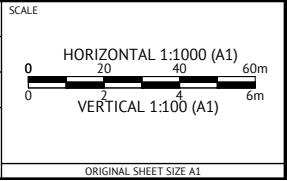


**FOR CONSTRUCTION**



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 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

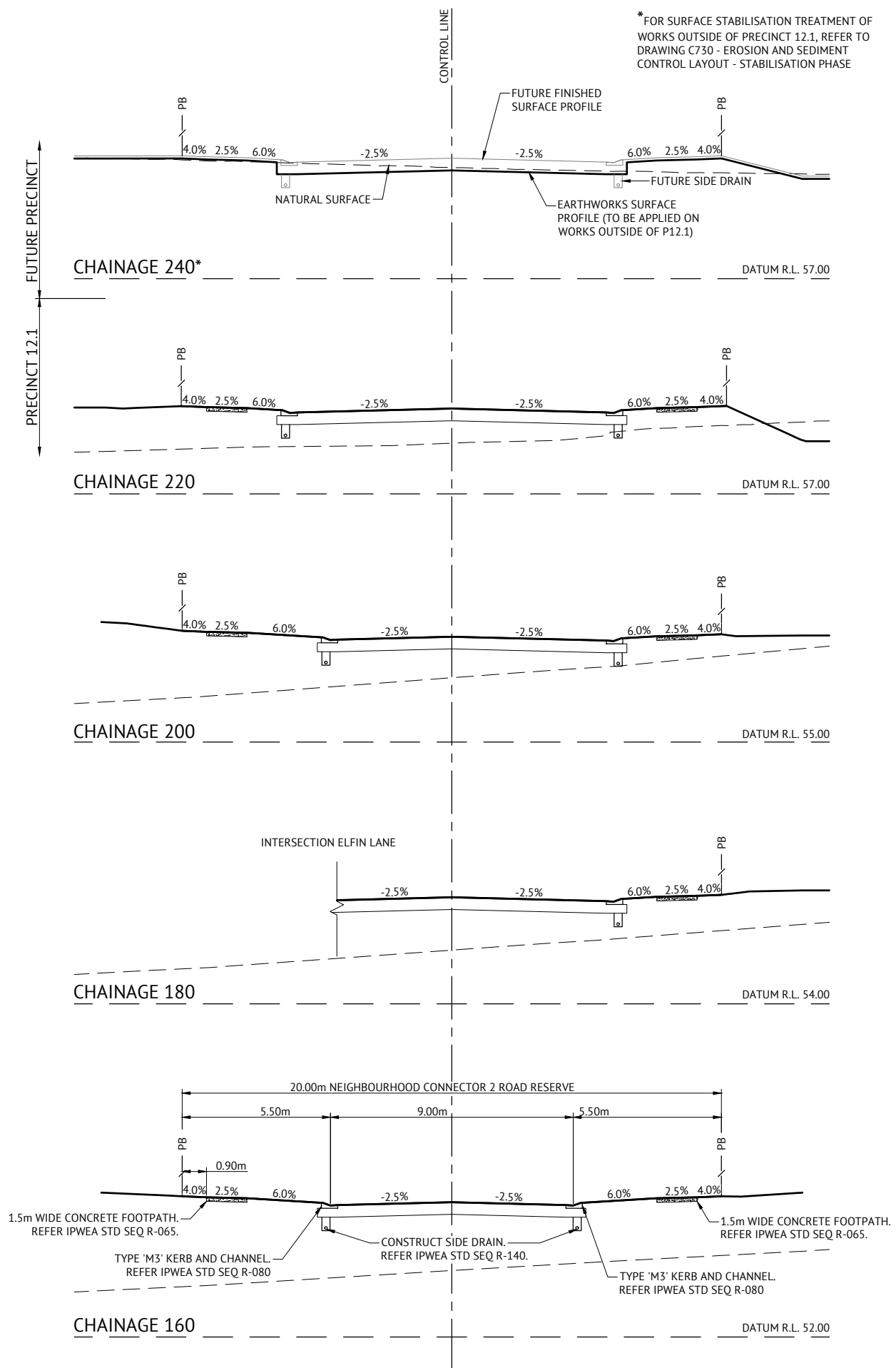
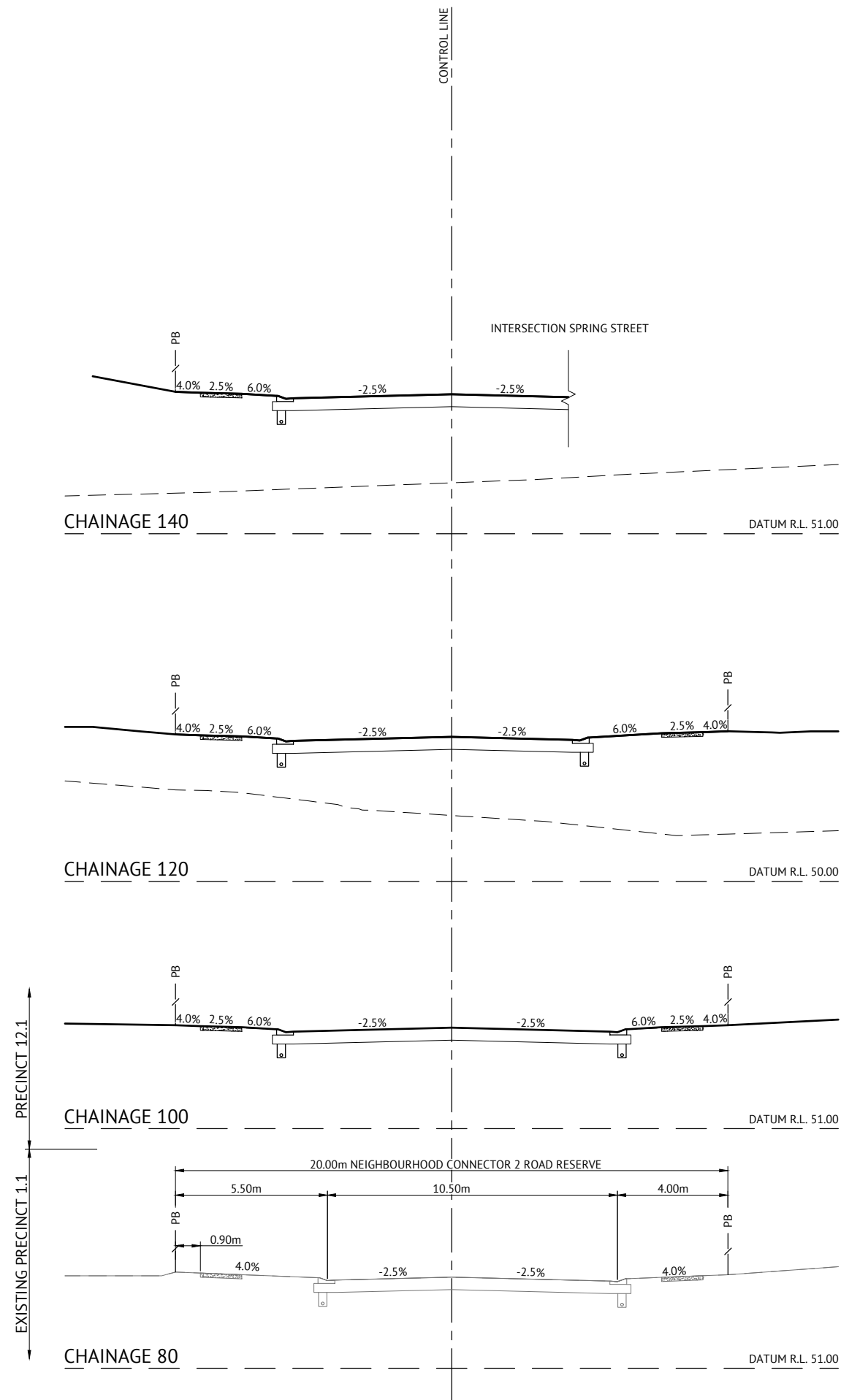
SHEET TITLE  
**KESSELS BOULEVARD LONGITUDINAL SECTION**

JOB CODE  
**MIR012-01**

SHEET NUMBER  
**C310**

REV  
**B**

DATE	REV	DESCRIPTION	REC	APP
12/10/2020	B	AMENDED ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



\* FOR SURFACE STABILISATION TREATMENT OF WORKS OUTSIDE OF PRECINCT 12.1, REFER TO DRAWING C730 - EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE

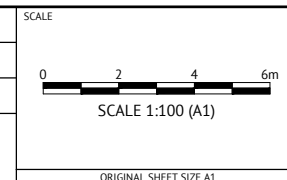
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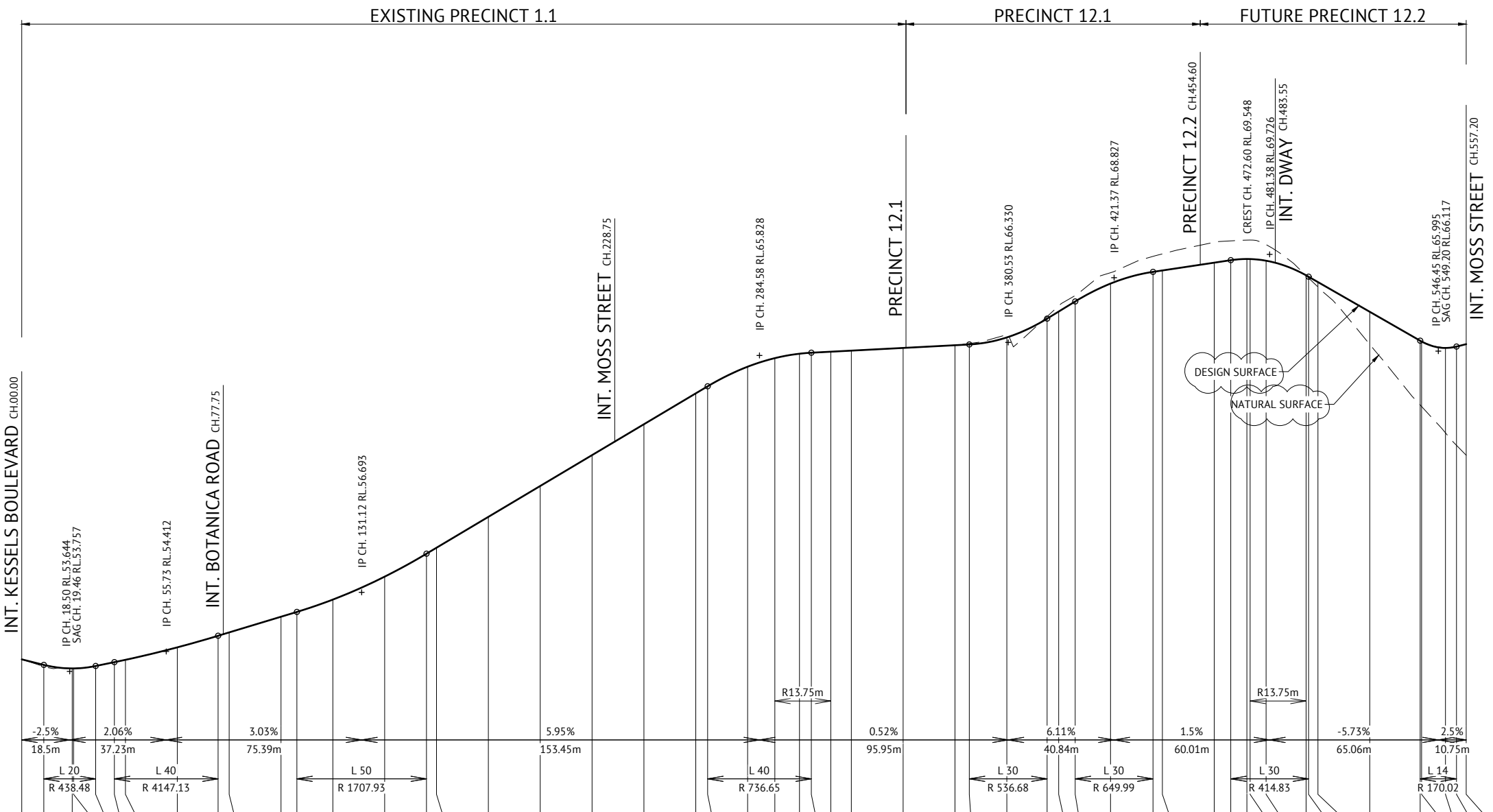
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CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**KESSELS BOULEVARD CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C311**  
 REV  
**A**



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

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.48.0

CHAINAGE	CUT (-)/FILL DEPTH	NATURAL SURFACE	DESIGN SURFACE	RHS LIP LEVEL	LHS LIP LEVEL
0.00	0.000	54.107	54.107		
8.50	0.063	53.831	53.894		
19.46	0.000	53.757	53.757	53.695	53.700
20.00	0.000	53.758	53.696	53.696	53.700
28.50	0.000	53.850	53.788	53.788	53.795
35.73	0.000	53.999	53.937	53.937	53.942
40.00	0.000	54.090	54.028	54.028	54.032
60.00	0.000	54.571	54.571	54.509	54.513
75.73	0.000	55.017	55.017	54.955	54.959
80.00	0.000	55.146	55.146	55.084	55.088
100.00	0.000	55.751	55.751	55.689	55.694
106.12	0.000	55.936	55.936	55.874	55.879
120.00	0.000	56.413	56.413	56.351	56.355
140.00	0.000	57.297	57.297	57.235	57.240
156.12	0.000	58.181	58.181	58.119	58.124
160.00	0.000	58.412	58.412	58.350	58.354
180.00	0.000	59.602	59.602	59.540	59.545
200.00	0.000	60.793	60.793	60.731	60.736
220.00	0.000	61.984	61.984	61.922	61.926
240.00	0.000	63.174	63.174	63.112	63.117
260.00	0.000	64.365	64.365	64.303	64.308
264.58	0.000	64.638	64.638	64.576	64.580
280.00	0.000	65.394	65.394	65.332	65.337
290.50	-0.000	65.725	65.725	65.663	65.667
300.00	-0.000	65.895	65.895	65.822	65.824
304.58	-0.000	65.933	65.933	65.855	65.856
312.10	-0.000	65.972	65.972	65.885	65.885
320.00	-0.000	66.014	66.014	65.927	65.927
340.00	-0.000	66.118	66.118	66.031	66.031
360.00	-0.000	66.223	66.223	66.136	66.136
365.53	-0.037	66.289	66.252	66.165	66.165
380.00	-0.105	66.627	66.523	66.436	66.436
395.53	-0.081	67.329	67.247	67.160	67.160
400.00	-0.216	67.737	67.521	67.434	67.434
406.37	-0.228	68.138	67.910	67.823	67.823
420.00	-0.418	69.019	68.600	68.513	68.513
436.37	-0.597	69.649	69.052	68.965	68.965
440.00	-0.639	69.745	69.106	69.019	69.019
460.00	-0.786	70.191	69.406	69.319	69.319
466.38	-0.745	70.246	69.501	69.414	69.414
472.60	-0.728	70.276	69.548	69.461	69.461
473.85	-0.732	70.278	69.546	69.459	69.459
480.00	-0.622	70.104	69.482	69.395	69.395
495.45	0.012	68.906	68.918	68.831	68.831
496.38	0.049	68.817	68.866	68.779	68.779
500.00	0.189	68.469	68.658	68.571	68.571
520.00	1.258	66.254	67.512	67.425	67.425
539.45	2.480	63.917	66.396	66.309	66.309
540.00	2.509	63.857	66.366	66.279	66.279
549.20	3.274	62.843	66.117	66.117	66.117
553.45	3.807	62.363	66.170	66.170	66.170
557.20	4.284	61.980	66.264	66.264	66.264

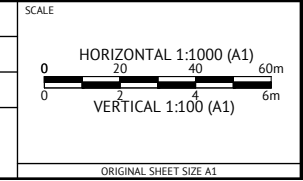
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



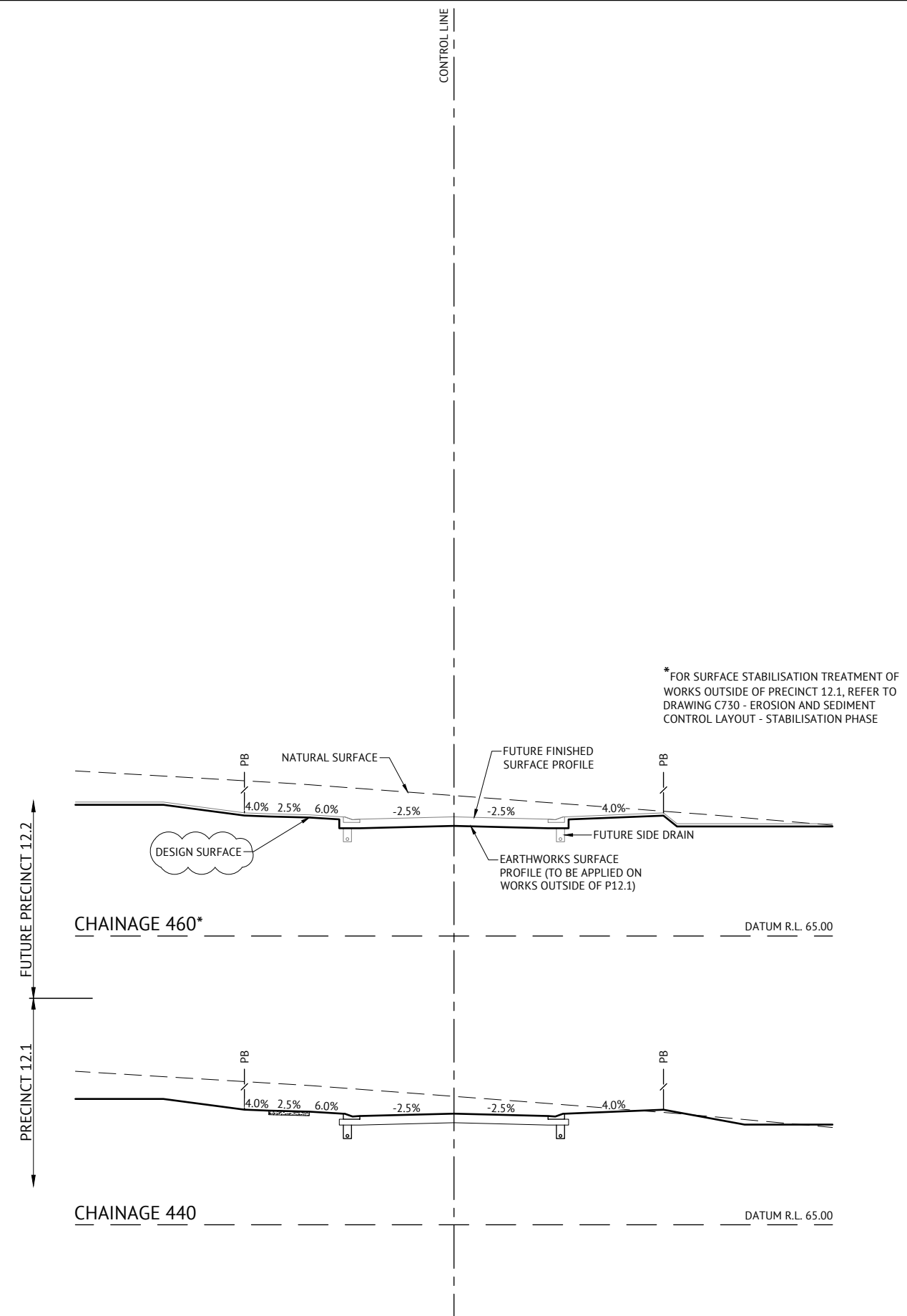
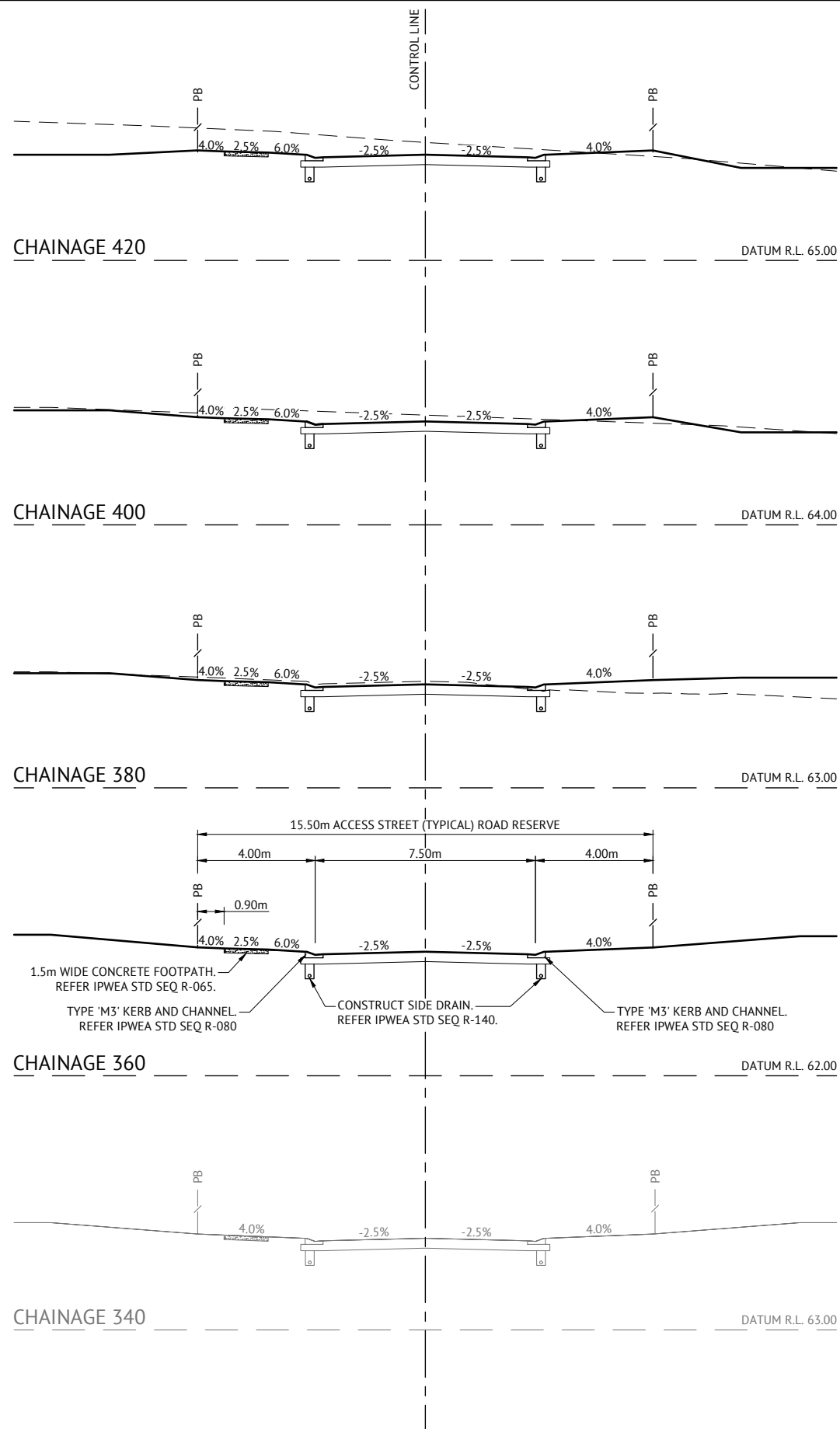
**BRISBANE OFFICE**  
LEVEL 1, 100 BRUNSWICK STREET  
PO BOX 361  
FORTITUDE VALLEY, QLD 4006  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**OLIVE AVENUE LONGITUDINAL SECTION**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C312</b>	REV <b>B</b>



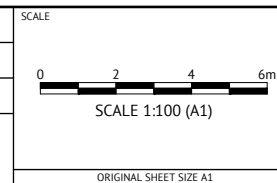
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112



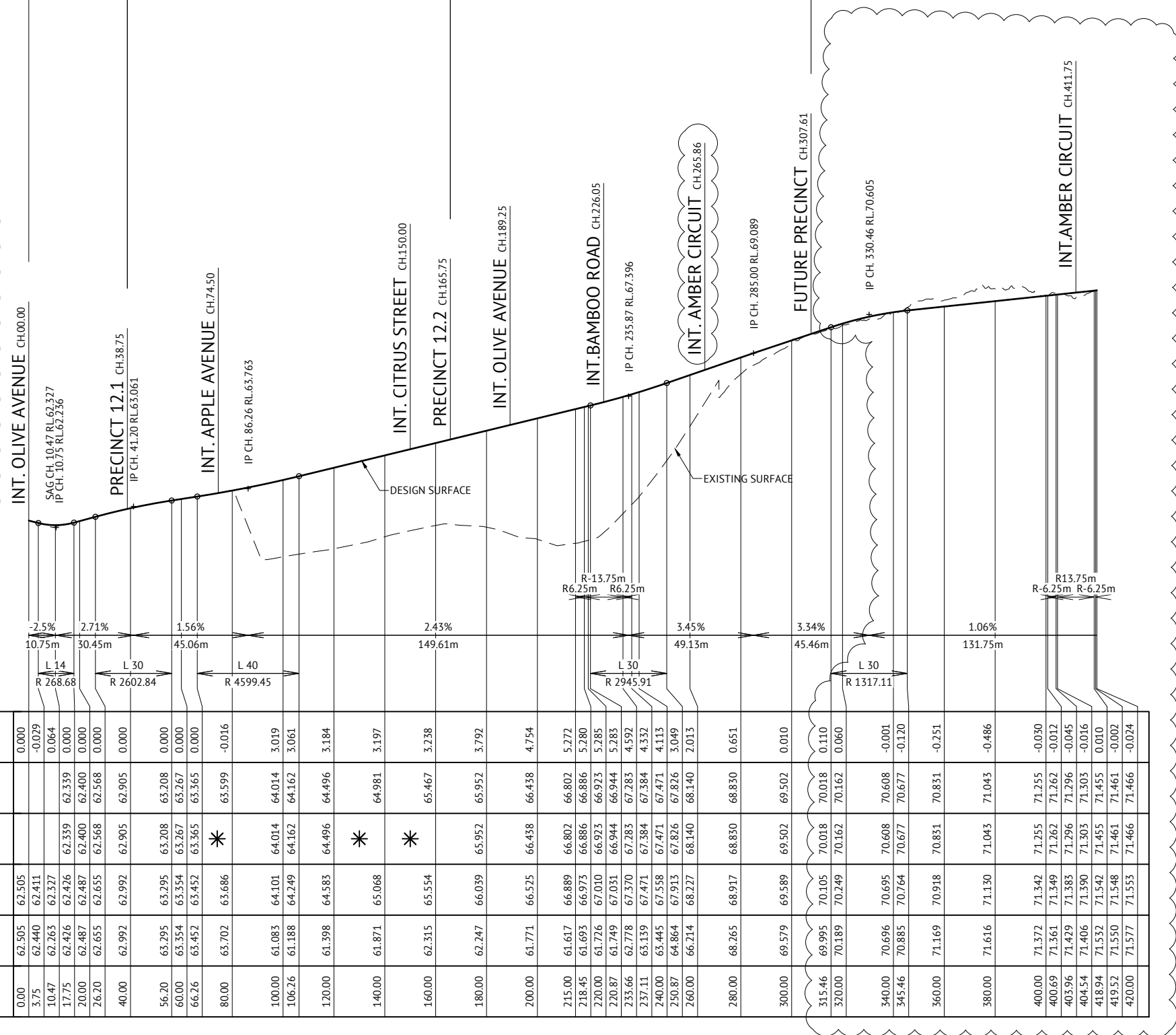
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**OLIVE AVENUE CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C313**  
 REV  
**B**

EXISTING PRECINCT 1.1      PRECINCT 12.1      FUTURE PRECINCT 12.2      FUTURE PRECINCT

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

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



\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data  
Vertical Geometry Grade (%)  
Vertical Grade Length (m)  
Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.55.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.00			62.505	62.505	0.00
-0.029			62.411	62.440	3.75
0.064			62.327	62.263	10.47
0.000			62.359	62.426	17.75
0.000			62.400	62.487	20.00
0.000			62.568	62.655	26.20
0.000			62.905	62.992	40.00
0.000			63.208	63.295	56.20
0.000			63.267	63.354	60.00
0.000			63.365	63.452	66.26
-0.016	*	*	63.686	63.702	80.00
3.019			64.014	61.083	100.00
3.061			64.162	61.188	106.26
3.184			64.496	61.398	120.00
3.197	*	*	65.068	61.871	140.00
3.238			65.554	62.315	160.00
3.792			66.039	62.247	180.00
4.754			66.438	61.771	200.00
5.272			66.802	61.617	215.00
5.280			66.886	61.693	218.45
5.285			66.923	61.726	220.00
5.283			66.944	61.749	220.87
4.592			67.283	62.778	233.66
4.332			67.384	63.139	237.11
4.113			67.471	63.445	240.00
3.049			67.826	64.864	250.87
2.013			68.140	66.214	260.00
0.651			68.830	68.265	280.00
0.010			69.502	69.579	300.00
0.110			70.018	69.995	315.46
0.060			70.162	70.189	320.00
-0.001			70.608	70.696	340.00
-0.120			70.677	70.885	345.46
-0.251			70.831	71.169	360.00
-0.486			71.043	71.616	380.00
-0.030			71.255	71.372	400.00
-0.012			71.262	71.361	400.69
-0.045			71.296	71.429	403.96
-0.016			71.303	71.406	404.54
0.010			71.455	71.532	418.94
-0.002			71.461	71.550	419.52
-0.024			71.466	71.577	420.00

ROAD 035 LONGITUDINAL SECTION

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED, AMENDED SECTION TO MATCH ROAD ALIGNMENT AND ROAD NAMES	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
				APP

**Premise**  
BRISBANE OFFICE  
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WEB: www.premise.com.au

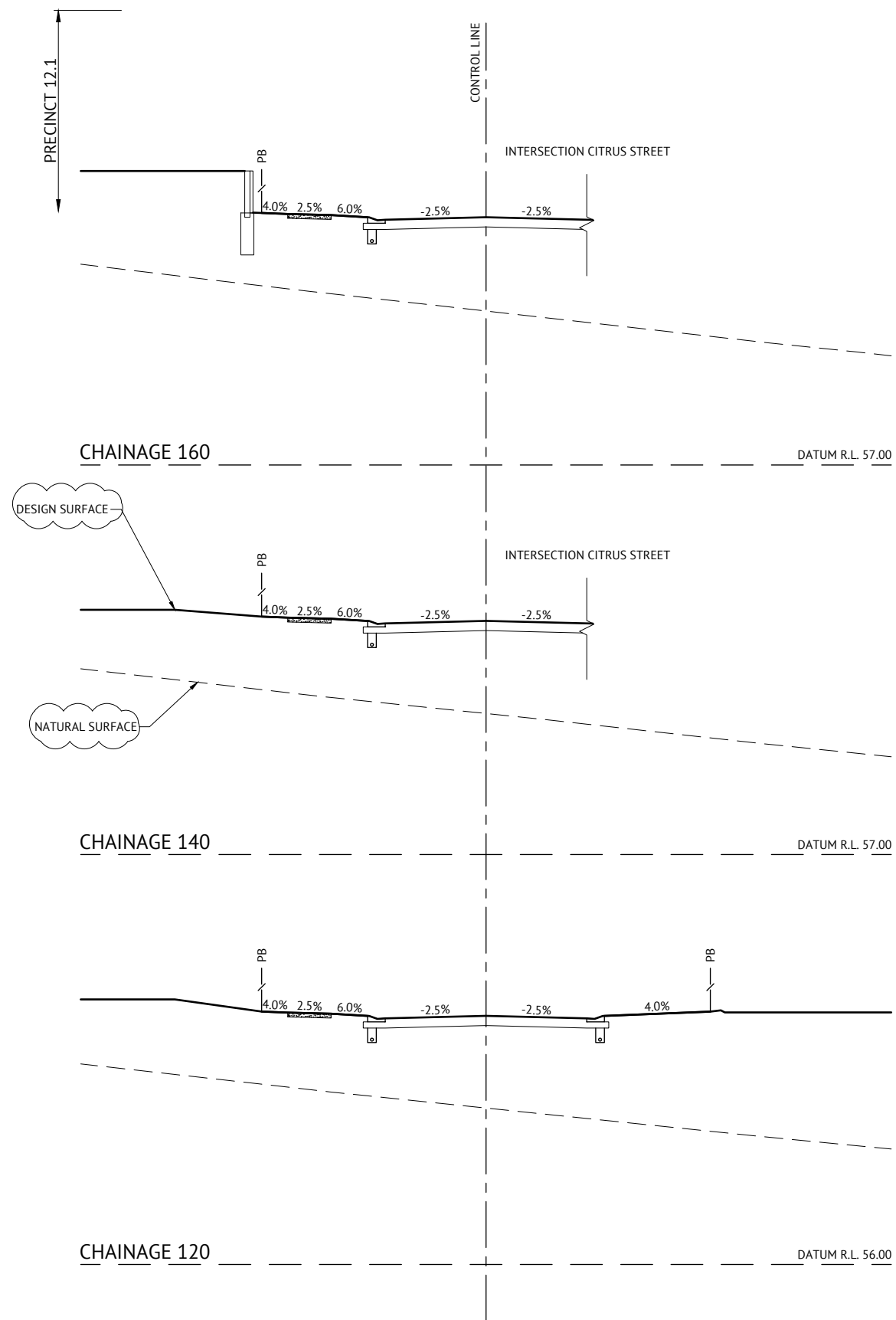
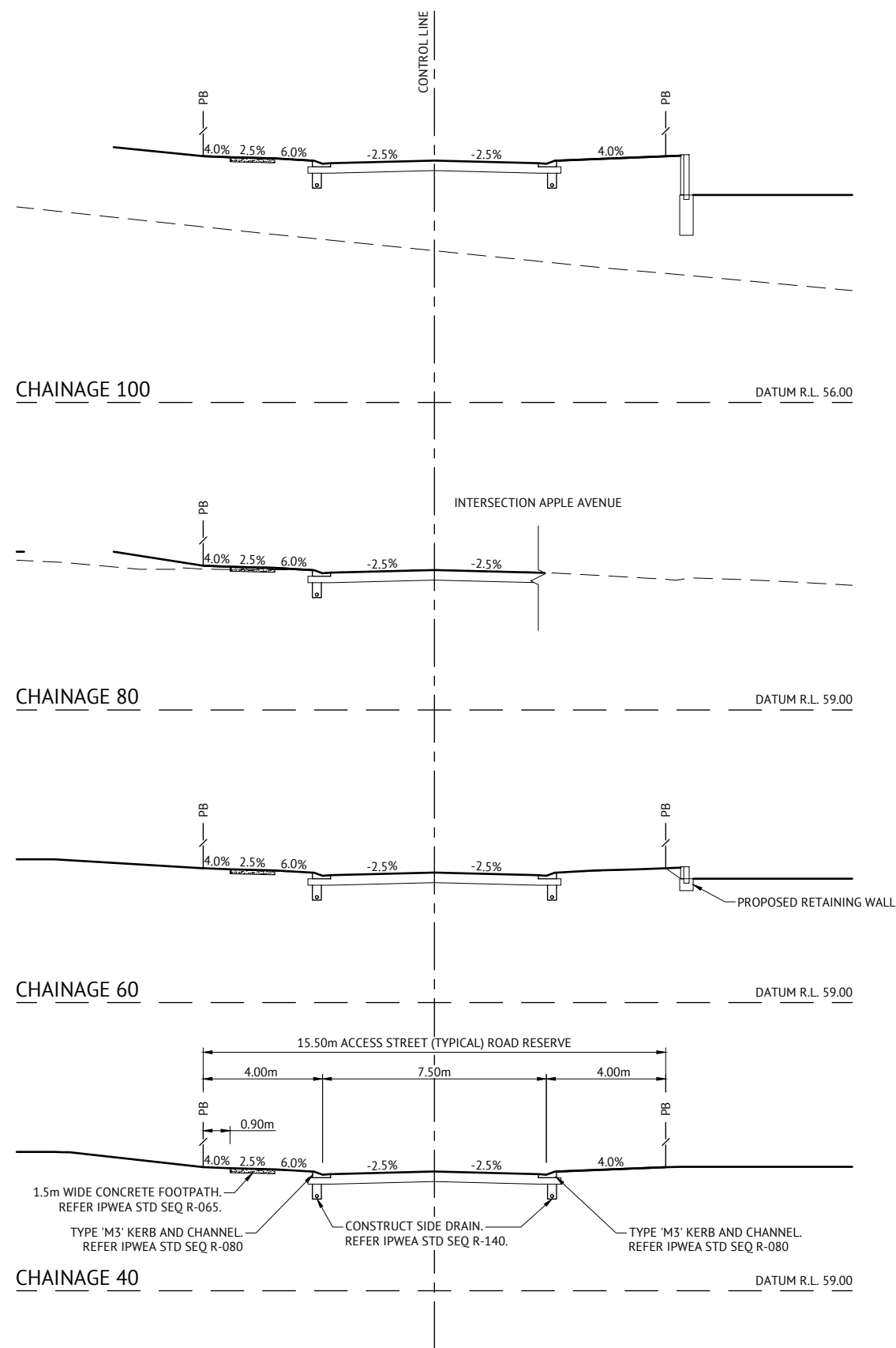
DESIGNED  
**K KIWANG**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*Pat Brady*  
PAT BRADY RPEQ 7112

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

CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**MOSS STREET LONGITUDINAL SECTION**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C314**  
REV  
**B**





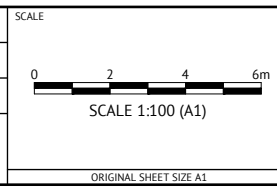
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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 CHECKED  
M MAJZNER  
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R LLEWELYN  
 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

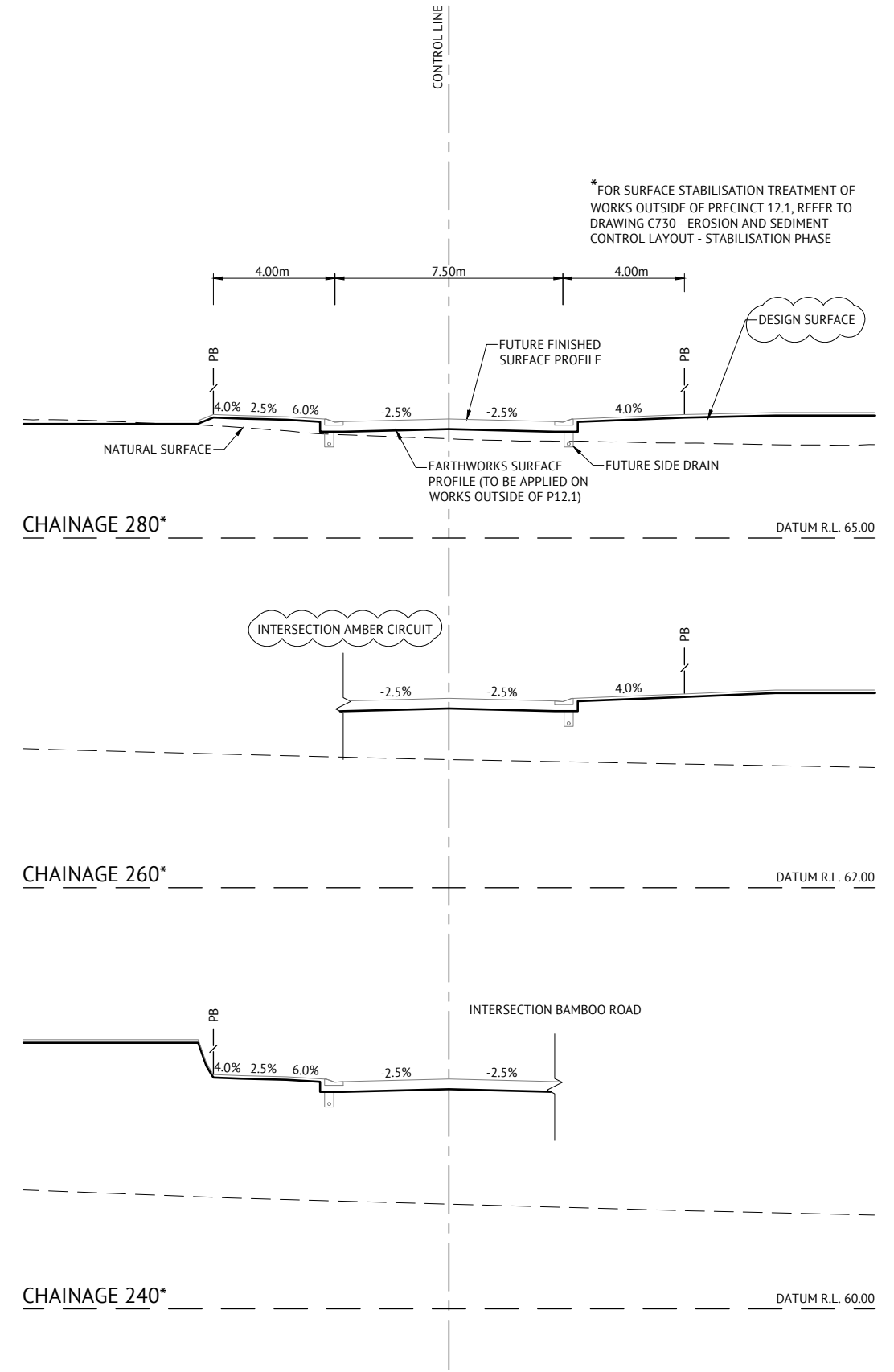
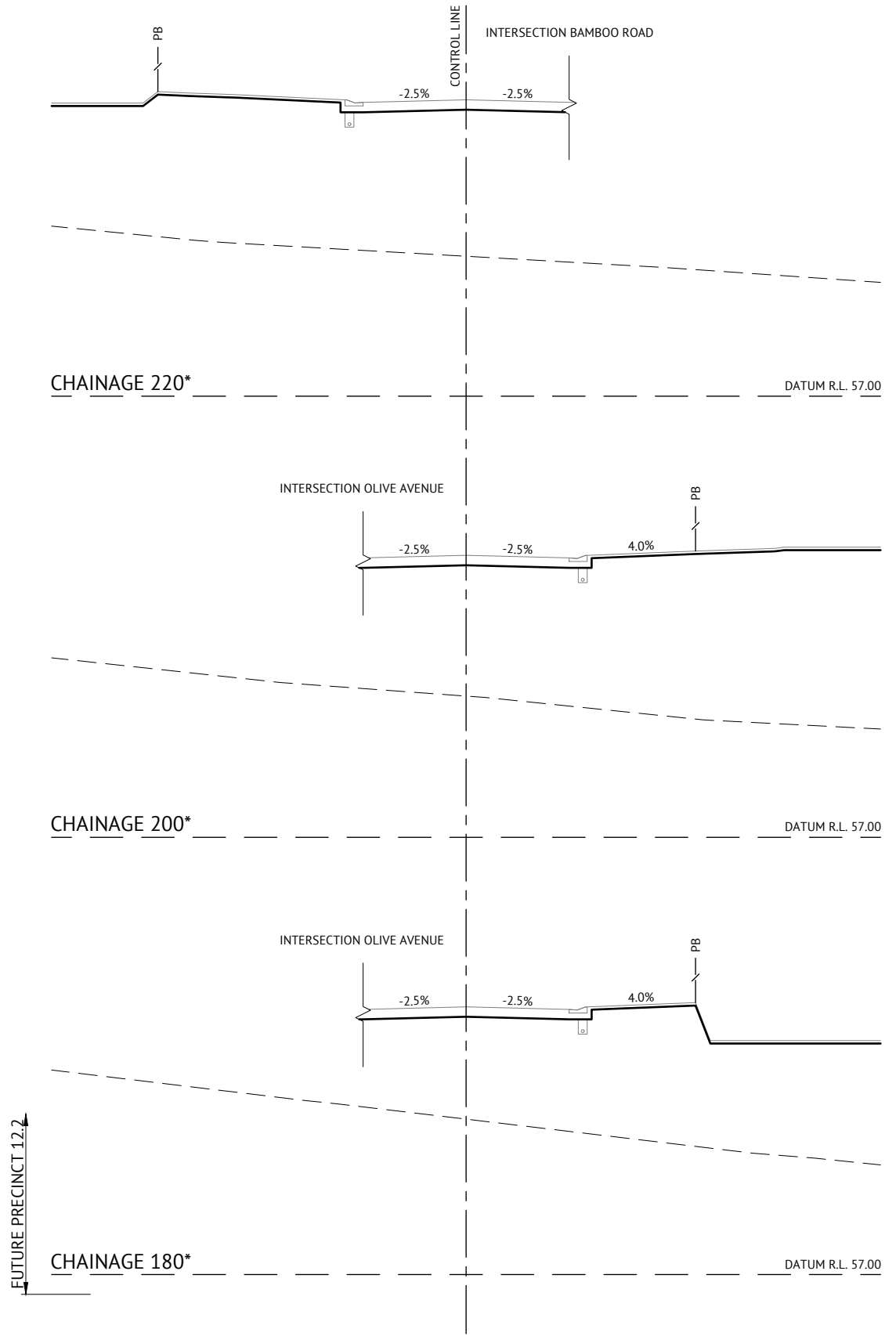
LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**MOSS STREET CROSS SECTIONS - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**

SHEET NUMBER  
**C315**

REV  
**B**



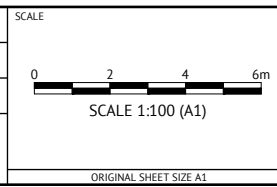
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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 CHECKED  
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 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
*[Signature]*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**MOSS STREET CROSS SECTIONS - SHEET 2 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C316**  
 REV  
**B**

EXISTING PRECINCT 1.1      PRECINCT 12.1      FUTURE PRECINCT 12.2      FUTURE PRECINCT 9.2

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

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

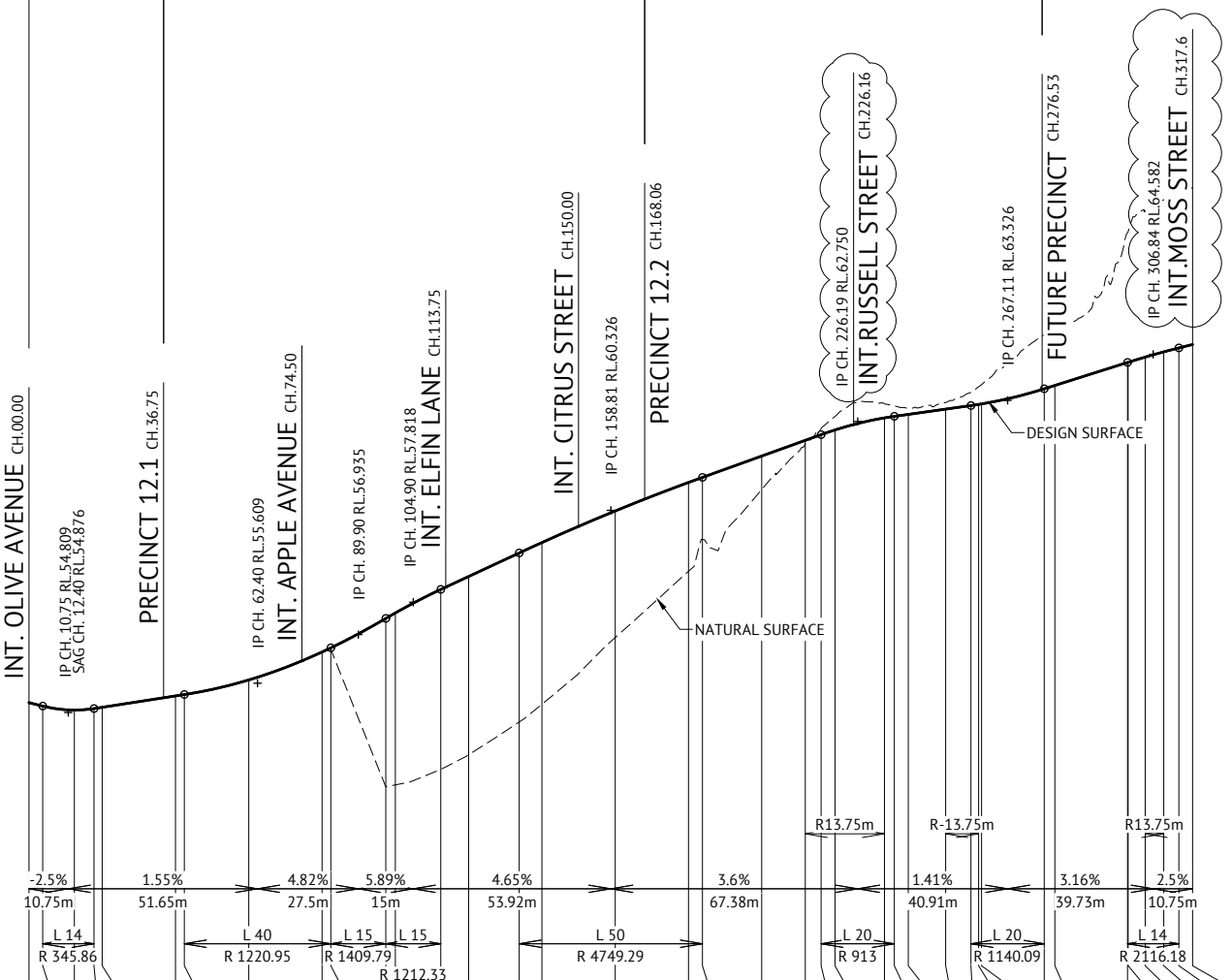
\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

DATUM R.L.47.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000			55.078	55.078	0.00
-0.000			54.984	54.984	3.75
-0.000			54.876	54.876	12.40
0.000			54.917	54.917	17.75
0.000			54.952	54.952	20.00
0.000			55.262	55.262	40.00
0.000			55.299	55.299	42.40
0.000			55.698	55.698	60.00
0.000	*		56.460	56.460	80.00
0.044			56.573	56.573	82.40
4.595			57.377	57.290	97.40
4.695			57.527	57.440	100.00
4.910		*	58.167	58.080	112.40
4.864			58.521	58.434	120.00
4.612			59.163	59.076	133.81
4.412			59.447	59.360	140.00
3.454	*		60.309	60.222	160.00
2.426			61.087	61.000	180.00
1.694			61.225	61.138	183.81
0.912			61.808	61.721	200.00
0.098			62.235	62.148	211.89
-0.169			62.390	62.303	216.19
-0.369			62.519	62.432	220.00
-0.386			62.849	62.762	233.49
-0.295			62.891	62.804	236.19
-0.163			62.944	62.857	240.00
-0.179			63.088	63.001	250.19
-0.356			63.185	63.098	257.11
-0.480			63.129	63.129	259.19
-0.531			63.230	63.143	260.00
-1.476			63.642	63.555	277.11
-1.485			63.733	63.646	280.00
-3.543			64.361	64.274	299.84
-3.566			64.366	64.279	300.00
-3.980			64.507	64.507	304.65
-4.149			64.650	64.650	309.71
-4.225			64.757	64.757	313.84
-4.278			64.851	64.851	317.59



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED AND AMENDED ROAD NAMES	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB

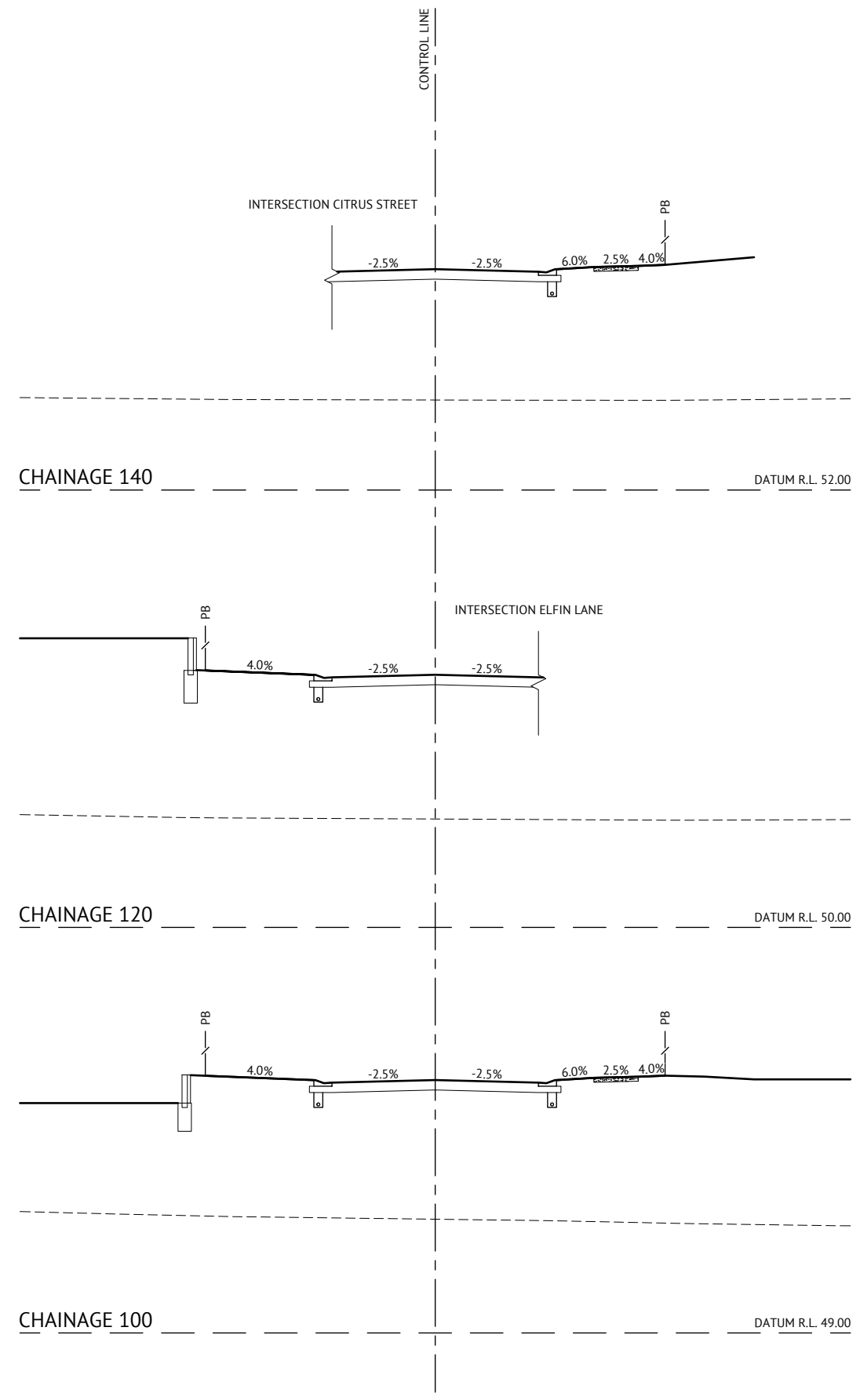
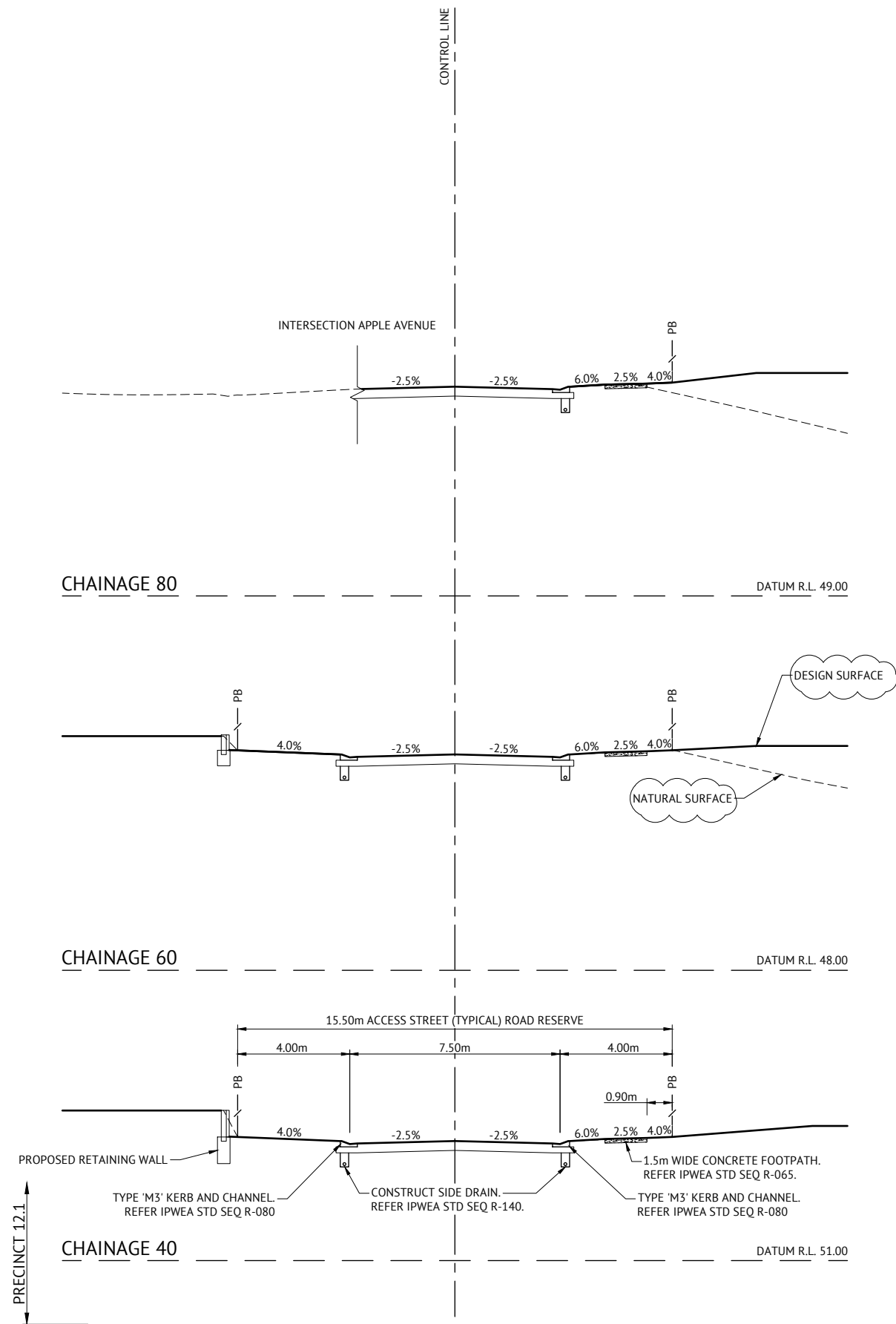
**Premise**  
 BRISBANE OFFICE  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

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

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

CLIENT  
MIRVAC GROUP  
 PROJECT  
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT  
 LOCATION  
TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
BOTANICA ROAD LONGITUDINAL SECTION

JOB CODE  
MIR012-01  
 SHEET NUMBER  
C317  
 REV  
B



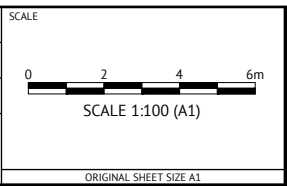
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



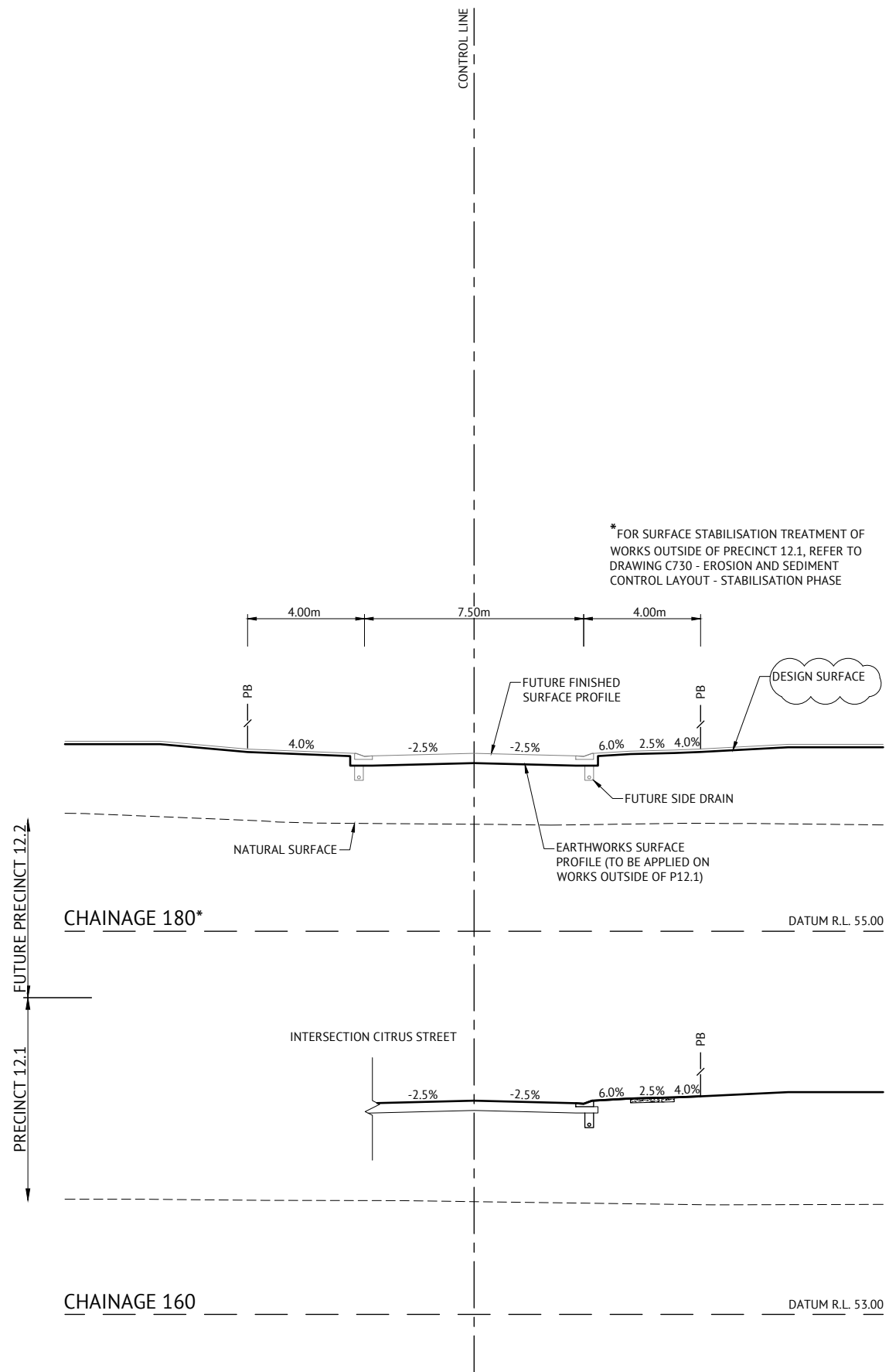
**BRISBANE OFFICE**  
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 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**BOTANICA ROAD CROSS SECTIONS - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C318**  
 REV  
**B**




**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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 PROJECT DIRECTOR  
  
 PAT BRADY RPEQ 7112

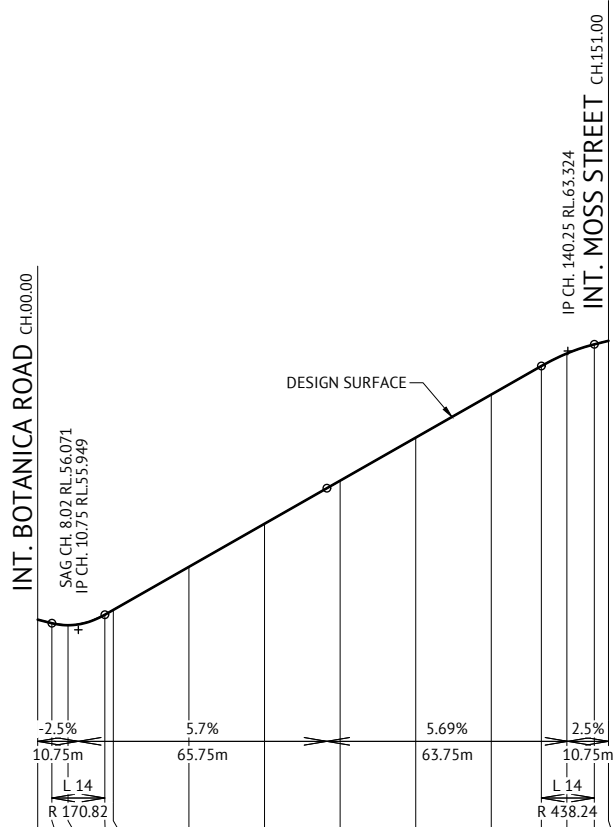
SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC GROUP**  
 PROJECT **EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION **TEVIOT ROAD, GREENBANK**  
 SHEET TITLE **BOTANICA ROAD CROSS SECTIONS - SHEET 2 OF 2**

JOB CODE **MIR012-01**  
 SHEET NUMBER **C319** REV **B**

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

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



\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)

Vertical Grade Length (m)

Vertical Curve Length (m)

Vertical Curve Radius (m)

DATUM R.L.50.0

CUT (-)/FILL DEPTH	-0.000	-0.002	-0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-0.005
LHS LIP LEVEL	*	*	56.261	56.389	57.528	58.667	59.806	60.945	62.084	62.839	*				
RHS LIP LEVEL	*	*	56.261	56.389	57.528	58.667	59.806	60.945	62.084	62.839	*				
DESIGN SURFACE	56.218	56.124	56.071	56.348	56.476	57.615	58.754	59.893	61.032	62.171	62.976	63.258	63.499	63.593	
NATURAL SURFACE	56.218	56.126	56.073	56.348	56.476	57.615	58.754	59.893	61.032	62.171	62.976	63.258	63.499	63.598	
CHAINAGE	0.00	3.75	8.02	17.75	20.00	40.00	60.00	80.00	100.00	120.00	133.25	140.00	147.25	151.00	

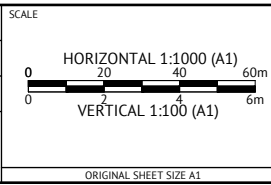
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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

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



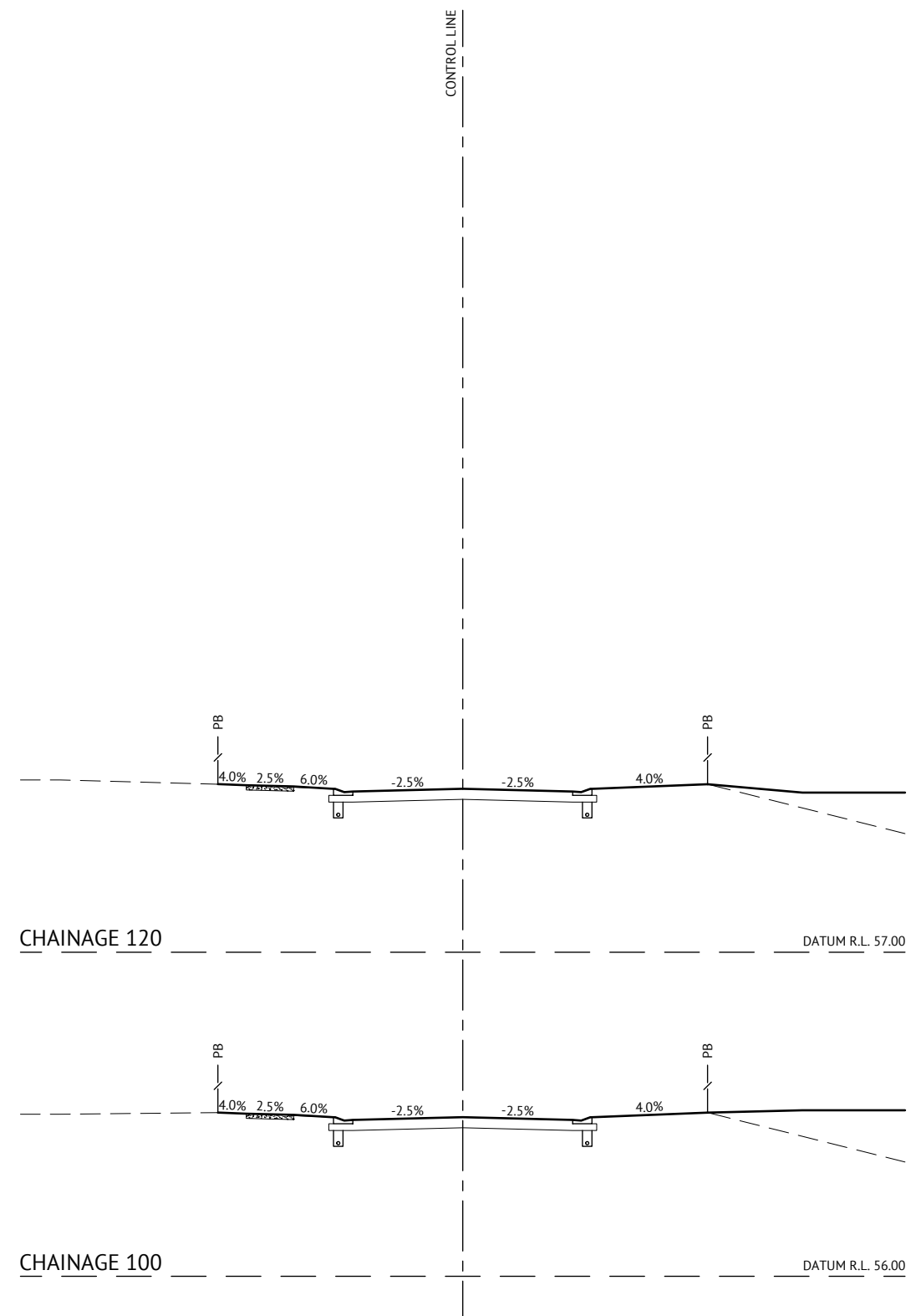
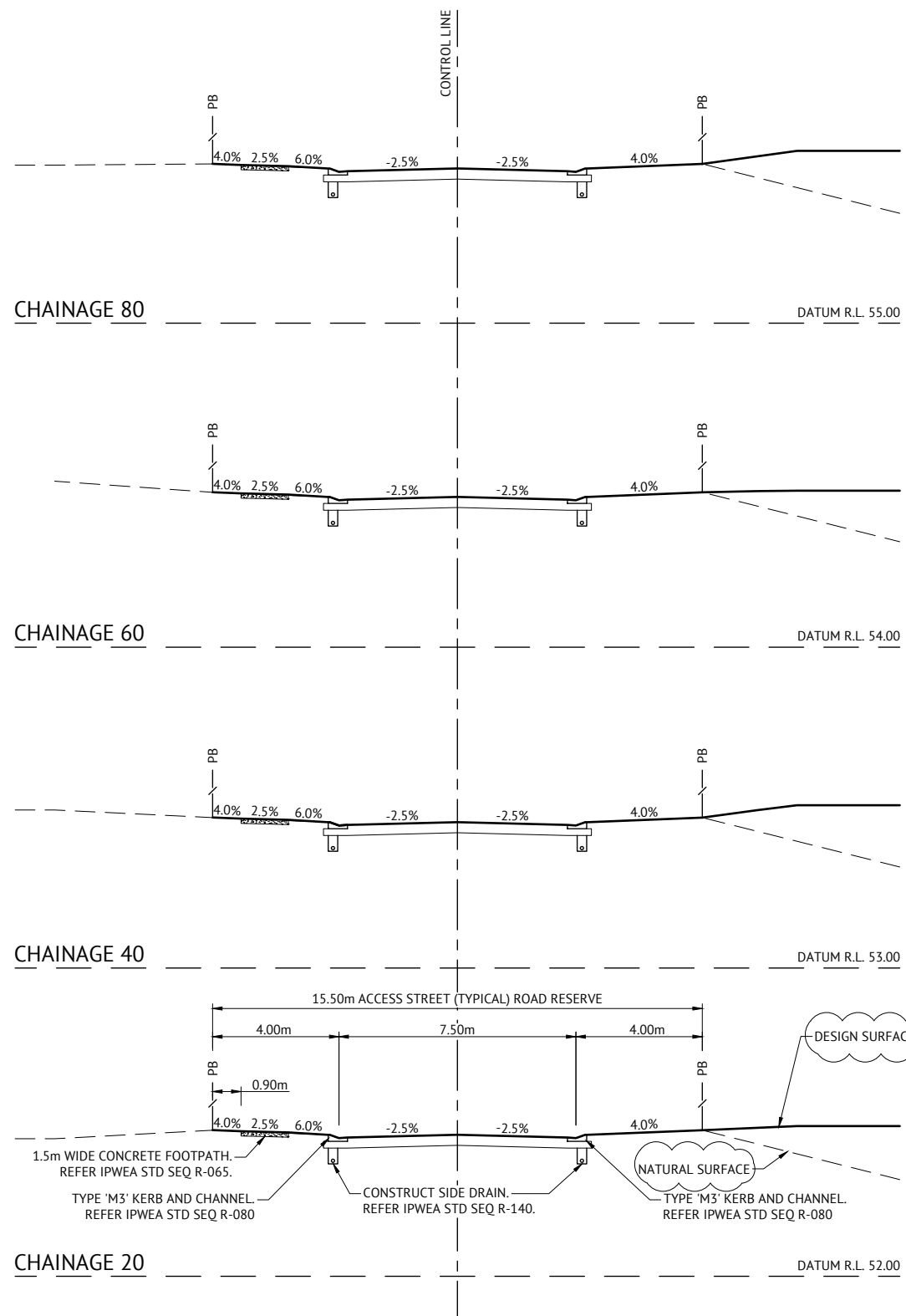
CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**APPLE AVENUE LONG SECTION**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C320</b>	REV <b>B</b>



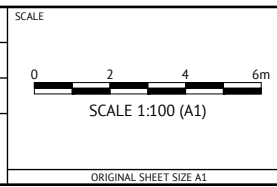
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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**K KIWANG**  
 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
*PB*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**APPLE AVENUE CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C321**  
 REV  
**B**

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- CITRUS STREET
CLASS	- ACCESS STREET (TYPICAL)
ESA's	- 5.90 x 10 <sup>2</sup>
SURFACE	- 35mm AC of 10mm MIX
PRIMER TYPE	- PRIME
CBR 80	- 150mm
CBR 45	- 150mm
TOTAL BOX	- 335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)

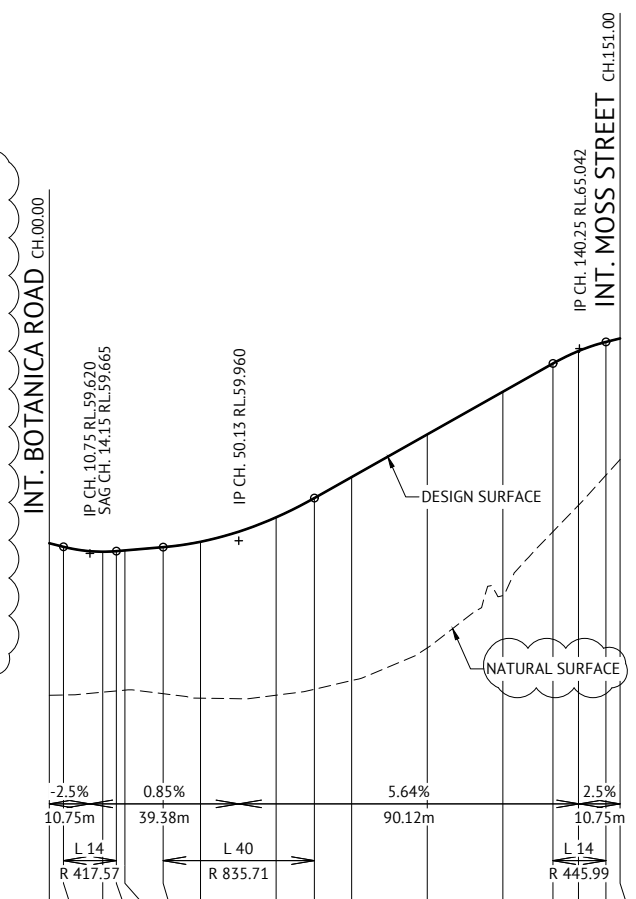
Vertical Grade Length (m)

Vertical Curve Length (m)

Vertical Curve Radius (m)

DATUM R.L.50.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
4.016	*	*	59.888	55.872	0.00
3.915			59.795	55.880	3.75
3.711			59.665	55.954	14.15
3.693			59.680	55.987	17.75
3.691			59.700	56.008	20.00
3.873			59.787	55.915	30.13
4.136			59.931	55.795	40.00
4.704			60.578	55.874	60.00
5.057			61.088	56.031	70.13
5.383			61.645	56.261	80.00
5.647			62.772	57.126	100.00
5.391			63.900	58.509	120.00
4.447			64.647	60.201	133.25
4.079	*	*	64.977	60.898	140.00
3.524			65.217	61.693	147.25
3.202			65.311	62.109	151.00

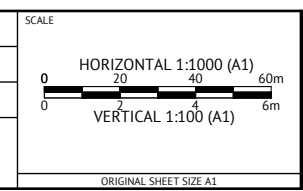


**FOR CONSTRUCTION**



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



CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**CITRUS STREET LONG SECTION**

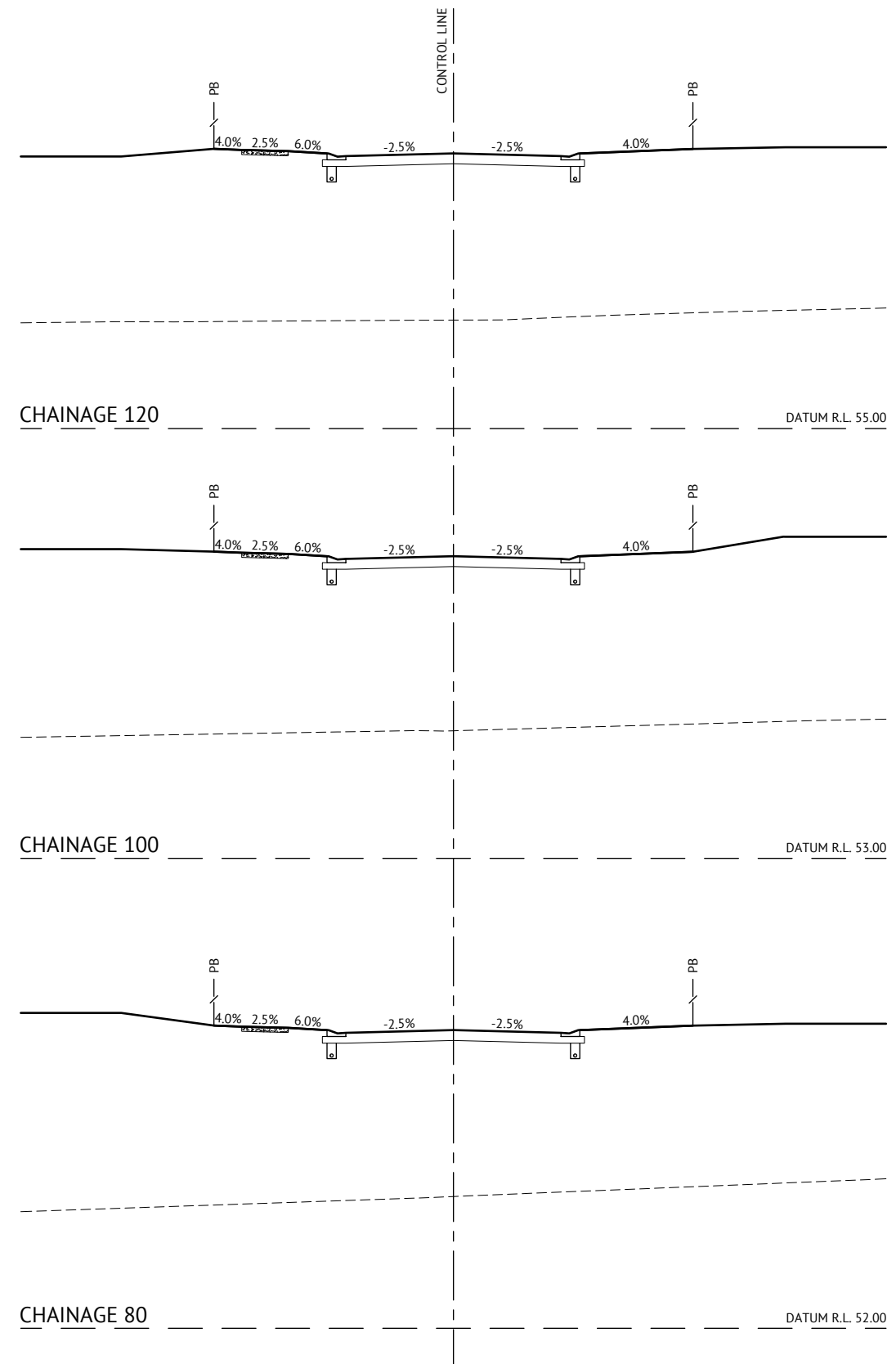
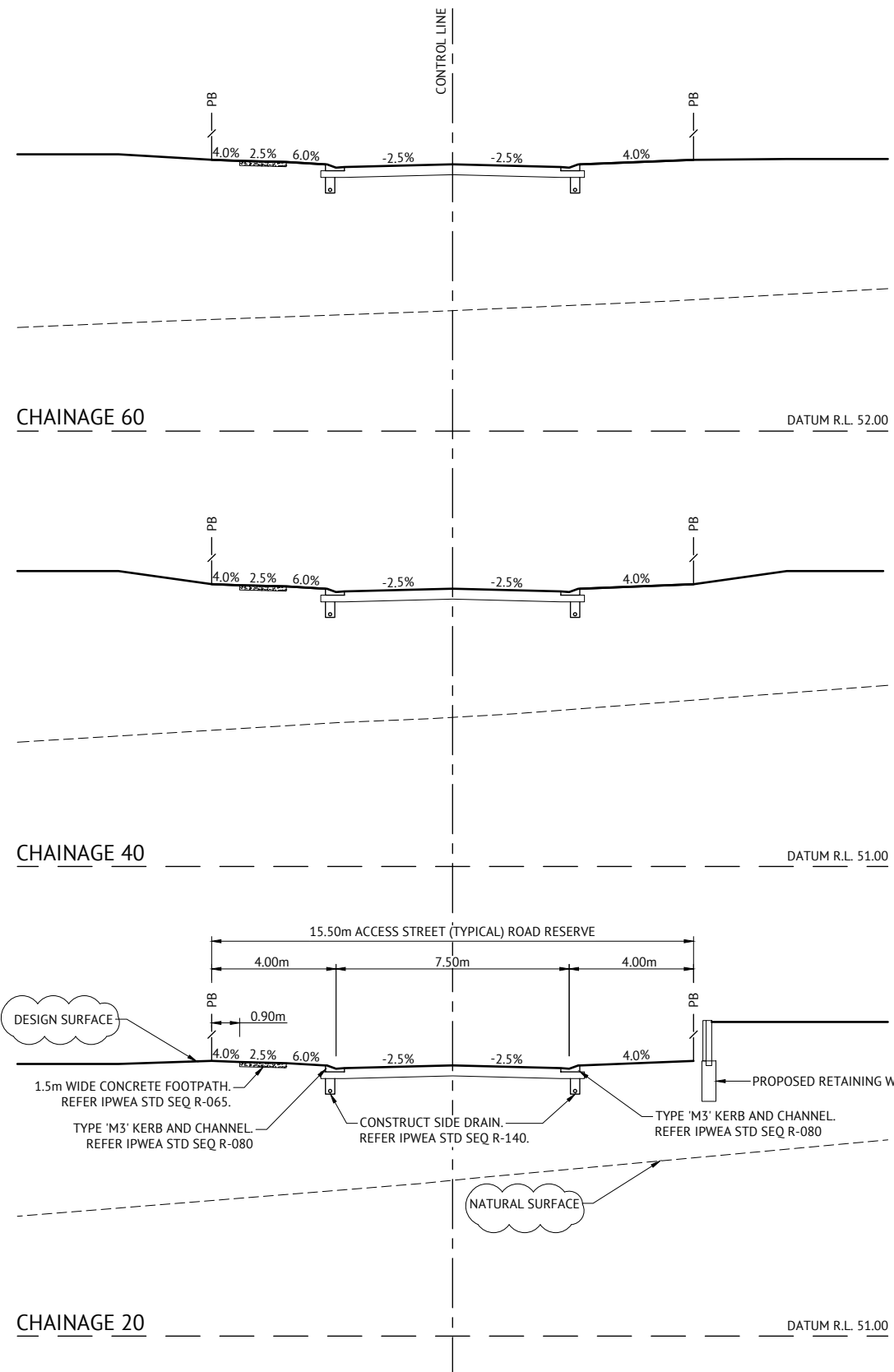
JOB CODE  
**MIR012-01**

SHEET NUMBER  
**C322**

REV  
**B**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP





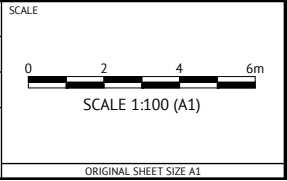
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	MINOR DRAFTING AMENDMENTS	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB



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DESIGNED  
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 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**CITRUS STREET CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C323**  
 REV  
**B**

**PAVEMENT DESIGN  
(PRELIMINARY)**

ROADS	-	ELFIN LANE
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10 <sup>5</sup>
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

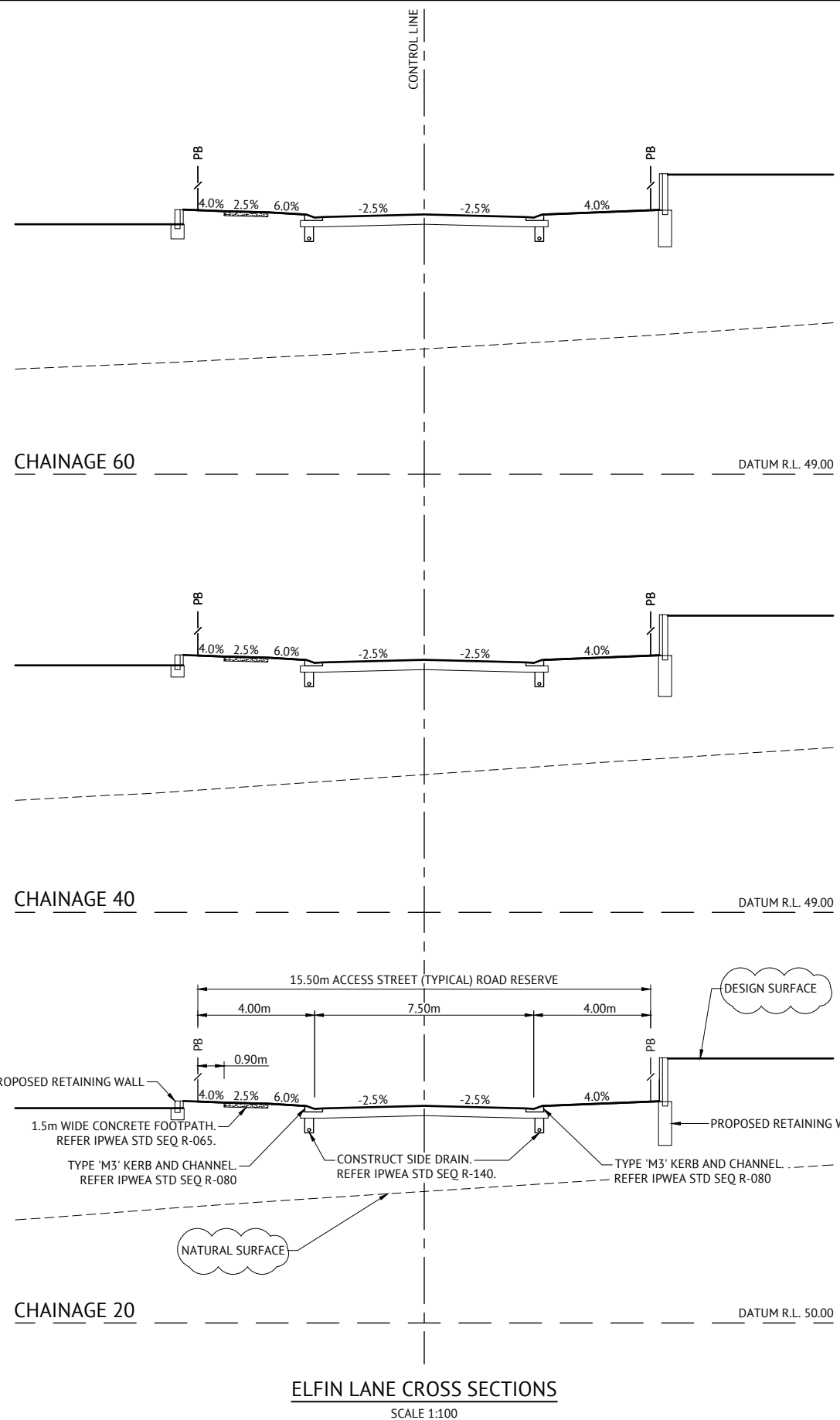
Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.47.0

CUT (-)/FILL DEPTH	2.053	2.327	2.898	3.250	3.927	4.601	4.614	4.843	4.904
LHS LIP LEVEL	*		57.341	57.342	57.553	57.798	57.807	*	
RHS LIP LEVEL	*		57.341	57.342	57.553	57.798	57.807	*	
DESIGN SURFACE	57.746	57.596	57.428	57.429	57.640	57.885	57.894	58.155	58.230
NATURAL SURFACE	55.693	55.269	54.530	54.500	54.218	53.284	53.281	53.312	53.326
CHAINAGE	0.00	6.00	19.42	20.00	26.00	40.00	60.00	67.75	77.75

**ELFIN LANE LONGITUDINAL SECTIONS**

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



**ELFIN LANE CROSS SECTIONS**

SCALE 1:100

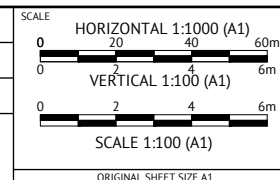
**FOR CONSTRUCTION**

28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
DATE	REV	DESCRIPTION	REC	APP



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PH: (07) 3253 2222  
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DESIGNED  
**K KIWANG**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*RLE*  
PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**ELFIN LANE LONG & CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C324**  
REV  
**B**

PRECINCT 12.1 FUTURE PRECINCT 12.3

**PAVEMENT DESIGN  
(PRELIMINARY)**

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

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

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

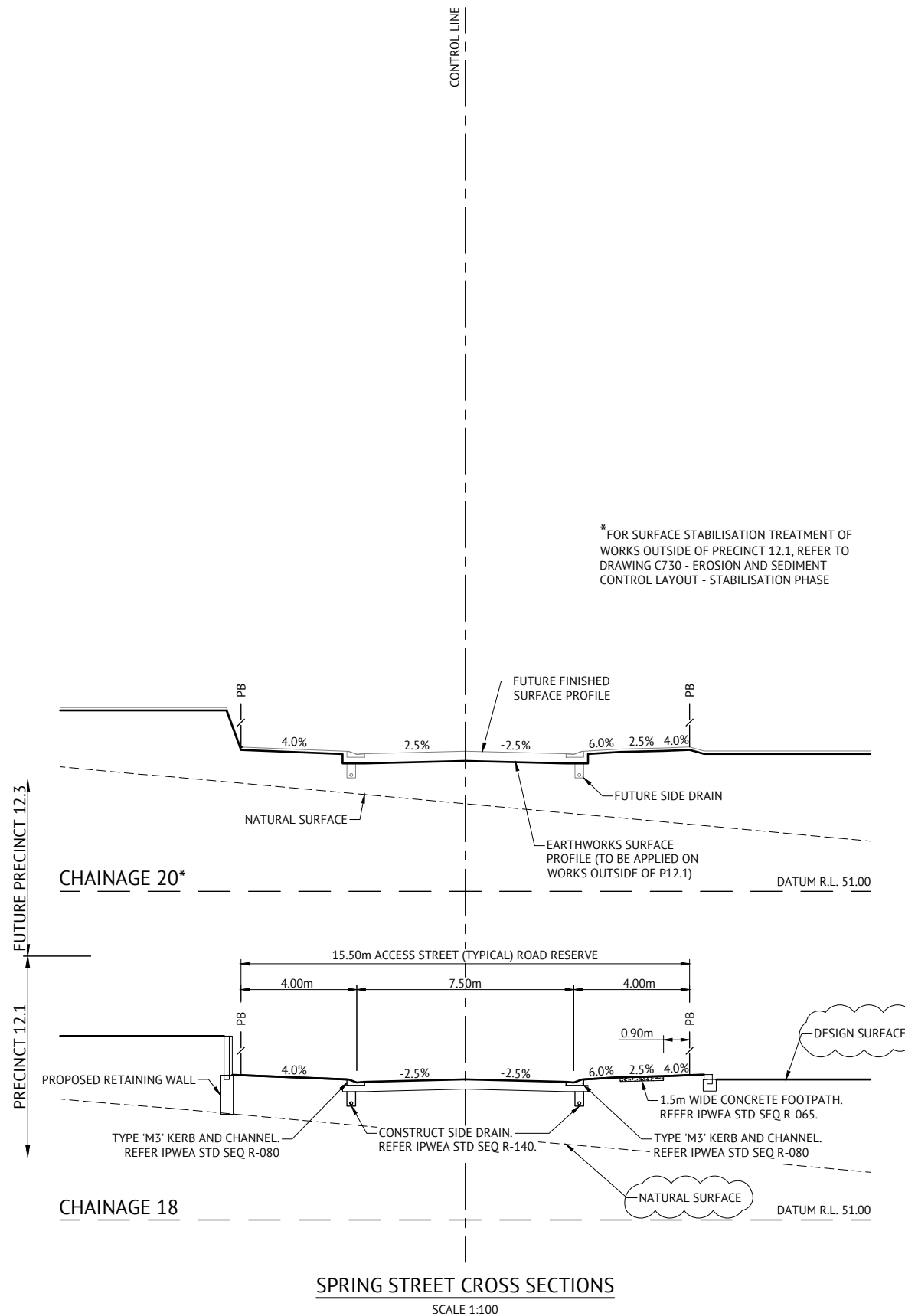
Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.47.0

CUT (-)/FILL DEPTH	3.156	2.854	1.946	1.815	0.978	0.343	0.343	0.288	0.682	0.572
LHS LIP LEVEL	*	55.769	55.755	55.629	55.503	55.503	55.494	55.720	55.814	
RHS LIP LEVEL	*	55.769	55.755	55.629	55.503	55.503	55.494	55.720	55.814	
DESIGN SURFACE	56.169	56.075	55.856	55.842	55.716	55.590	55.590	55.581	55.720	55.814
NATURAL SURFACE	55.013	55.222	55.910	54.027	54.737	55.246	55.247	55.292	55.038	55.242
CHAINAGE	0.00	3.75	17.75	20.00	40.00	60.00	62.82	74.00	77.75	

**SPRING STREET LONGITUDINAL SECTIONS**

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



**SPRING STREET CROSS SECTIONS**

SCALE 1:100

\* FOR SURFACE STABILISATION TREATMENT OF WORKS OUTSIDE OF PRECINCT 12.1, REFER TO DRAWING C730 - EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE

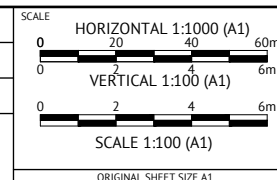
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
28/08/2020	B	PAVEMENT DESIGN DETAILS CORRECTED AND AMENDED ROAD NAME	CL	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



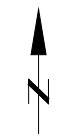
**BRISBANE OFFICE**  
LEVEL 1, 100 BRUNSWICK STREET  
PO BOX 361  
FORTITUDE VALLEY, QLD 4006  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**SPRING STREET LONG & CROSS SECTIONS**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C325**  
REV  
**B**

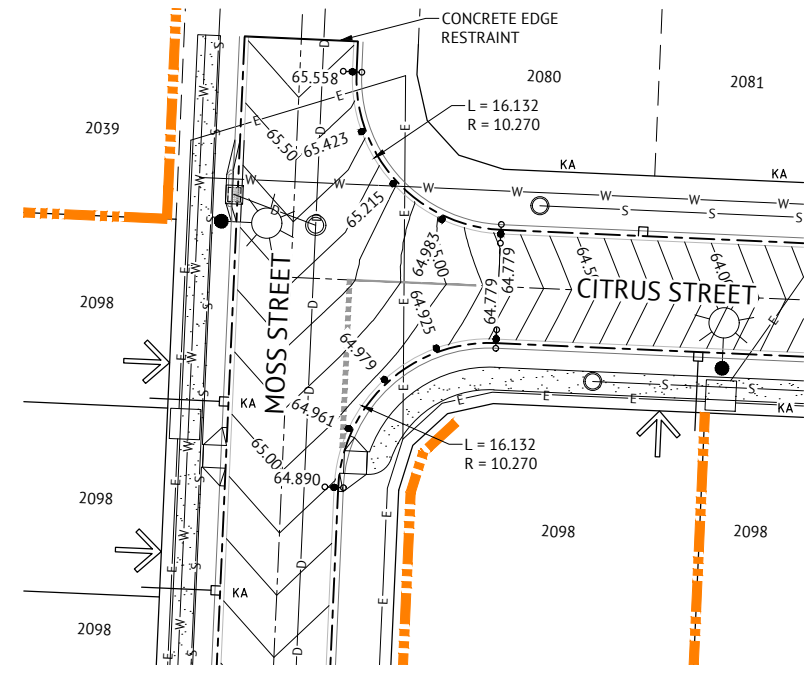


**LEGEND**

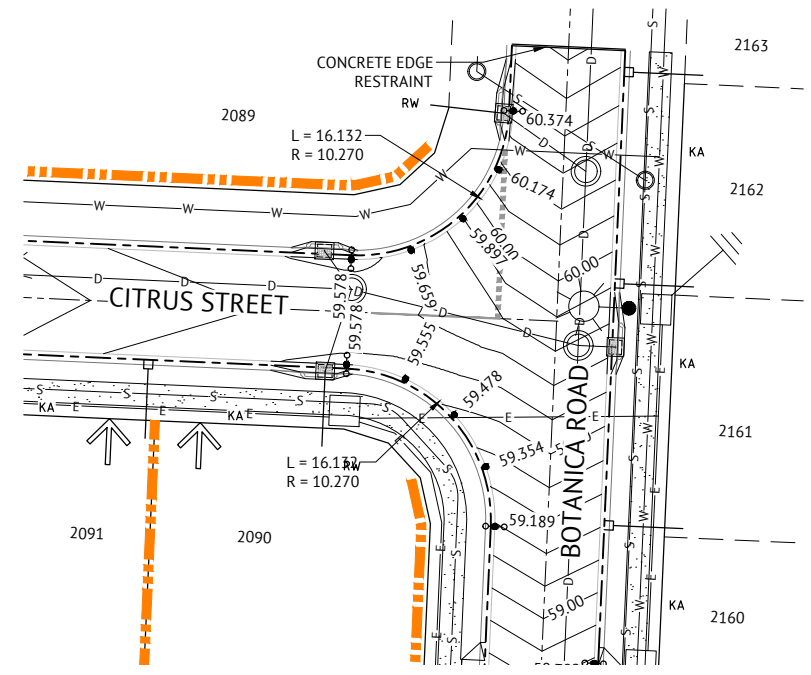
- 12.0 FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- PROPOSED STORMWATER
- PROPOSED SEWER
- PROPOSED WATER

**EXISTING - LEGEND**

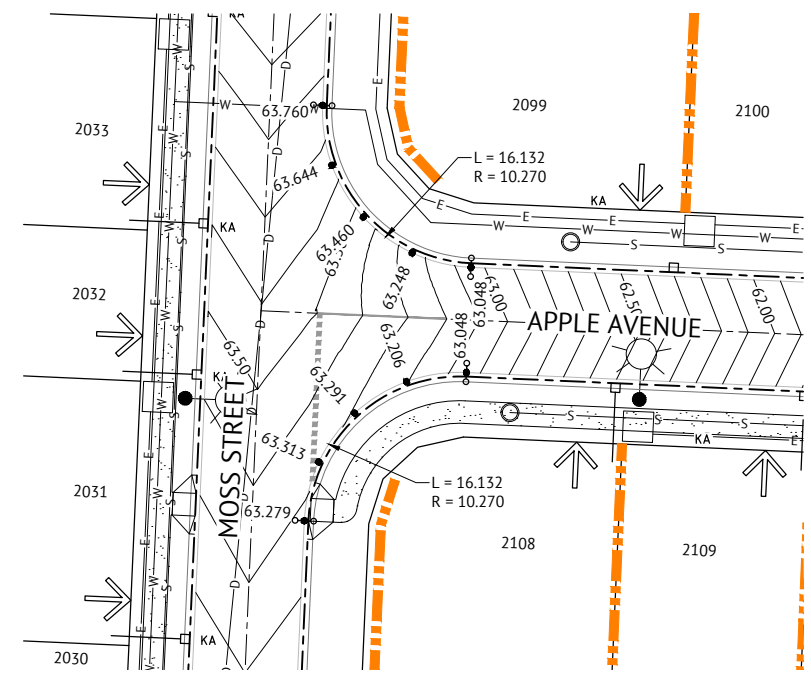
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING ELECTRICAL
- EXISTING TELSTRA
- EXISTING GAS
- EXISTING SEWER RISING MAIN



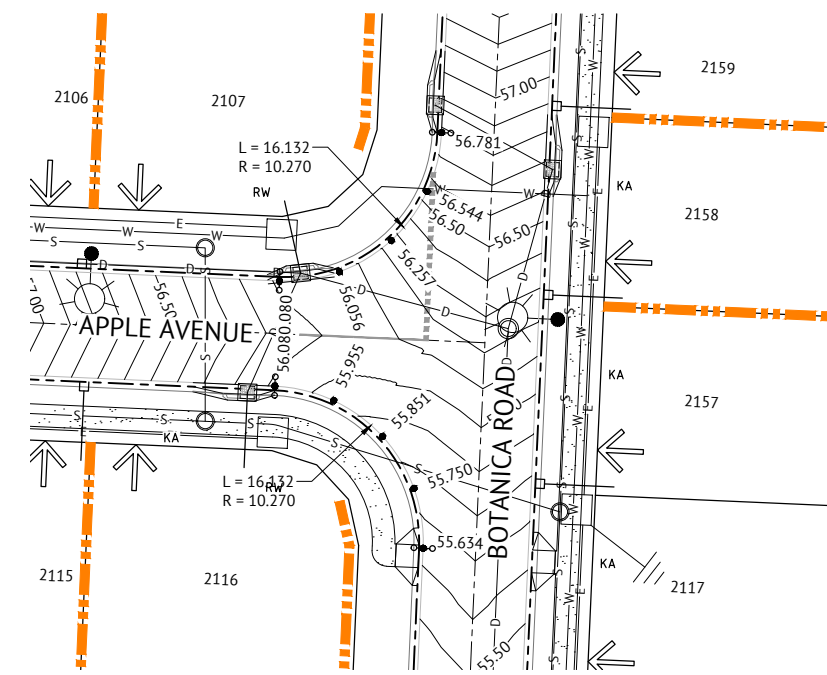
**INTERSECTION CITRUS STREET & MOSS STREET**



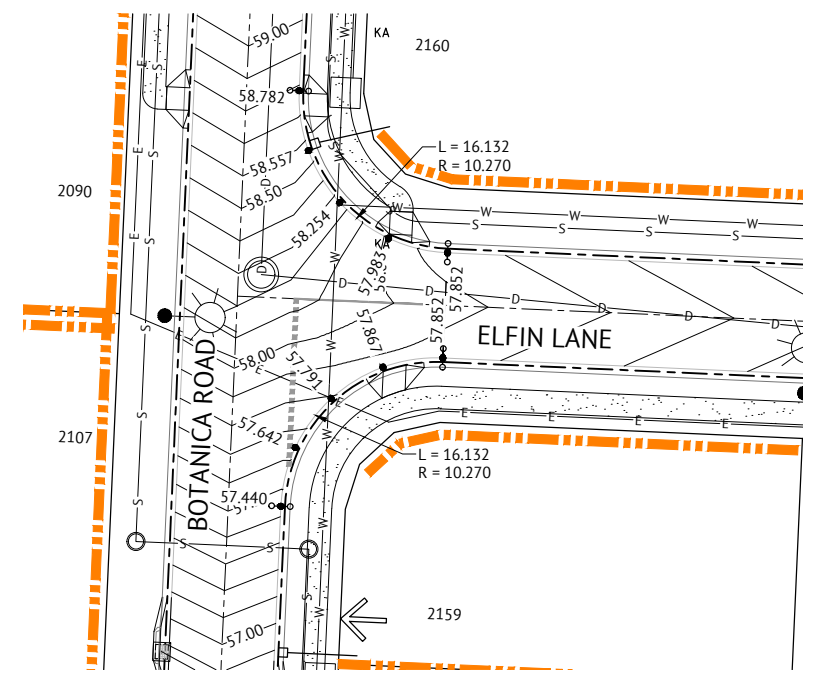
**INTERSECTION CITRUS STREET & BOTANICA ROAD**



**INTERSECTION APPLE AVENUE & MOSS STREET**



**INTERSECTION APPLE AVENUE & BOTANICA ROAD**



**INTERSECTION ELFIN LANE & BOTANICA ROAD**

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

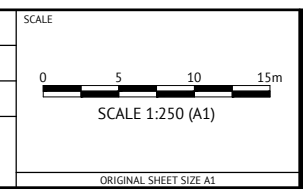
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
DATE	REV	DESCRIPTION	REC	APP



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**K KIWANG**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**INTERSECTION DETAILS LAYOUT - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C330**  
REV  
**A**

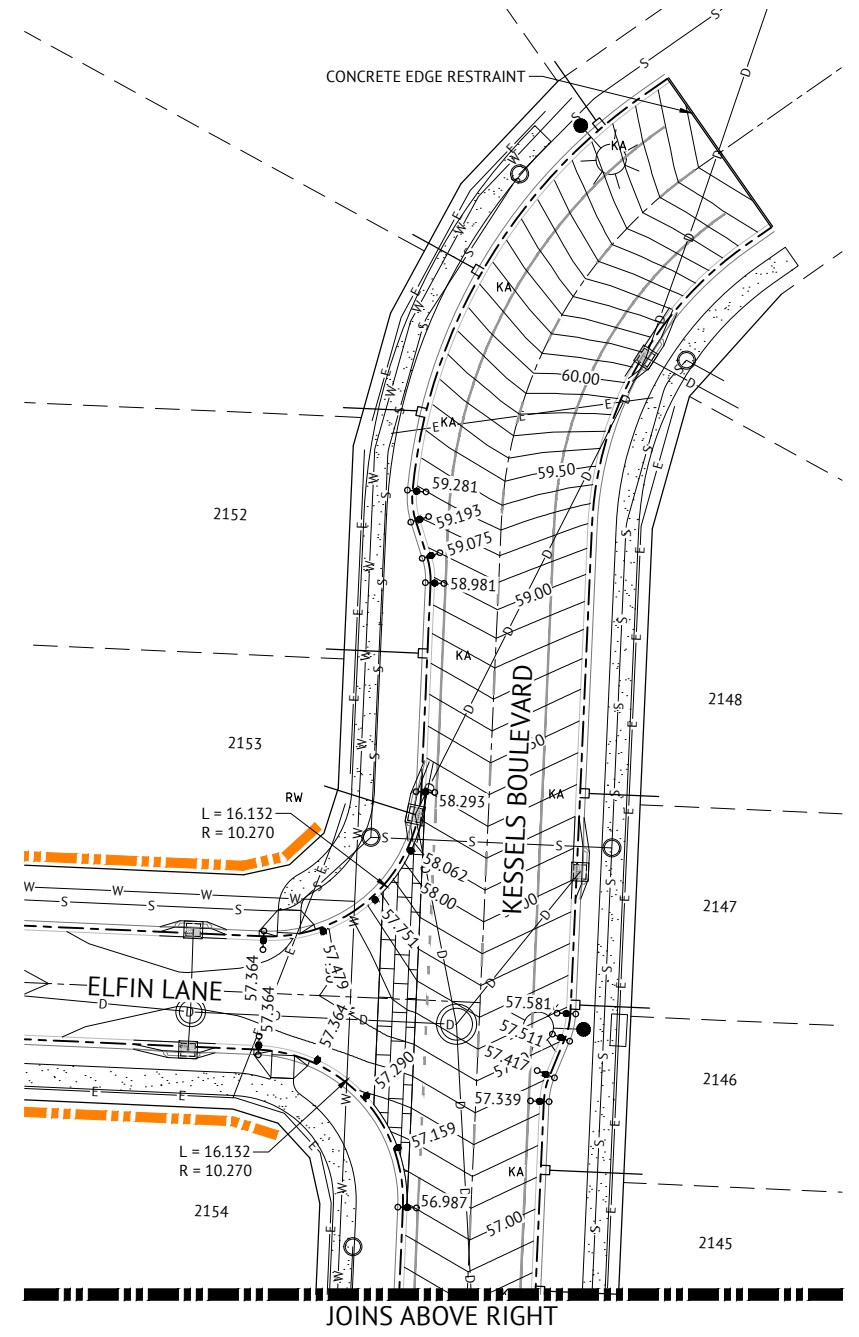


**LEGEND**

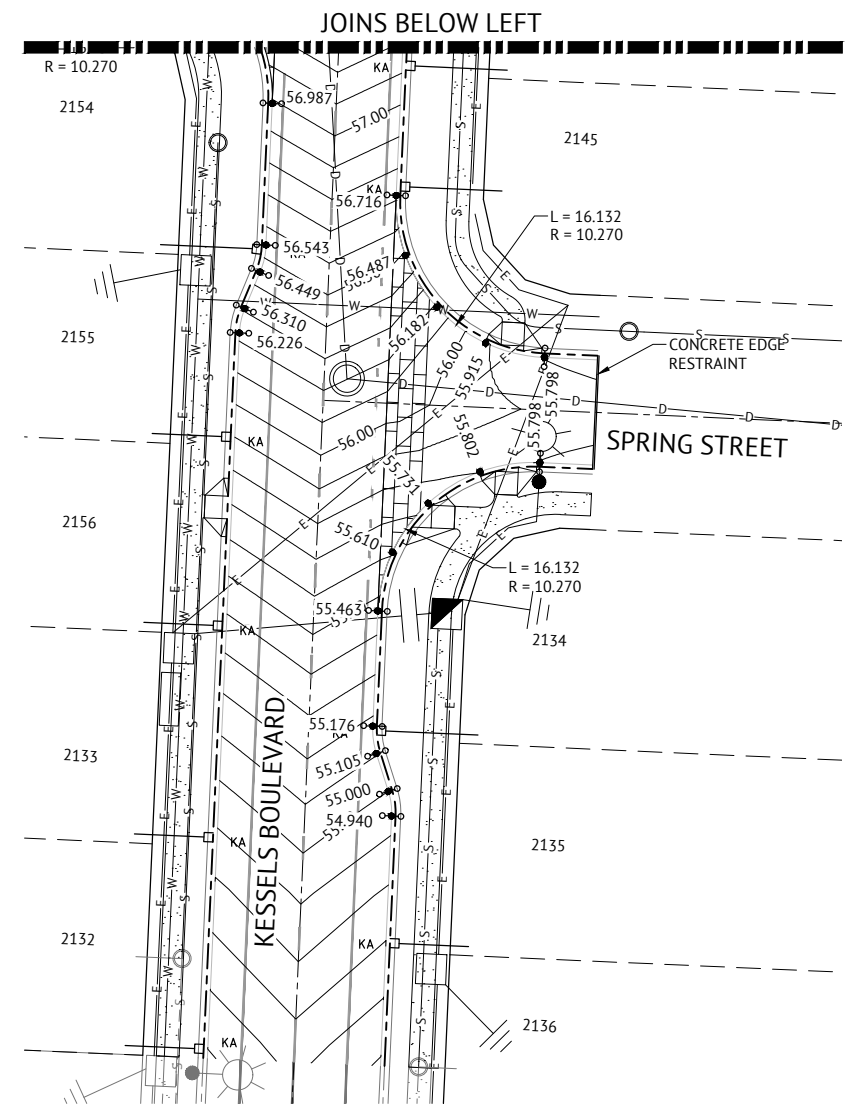
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- — FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO)  
REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP.  
REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- LIP OF KERB 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



**INTERSECTION ELFIN LANE & KESSELLS BOULEVARD**



**INTERSECTION SPRING STREET & KESSELLS BOULEVARD**

**NOTE**  
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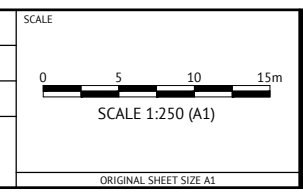
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
DATE	REV	DESCRIPTION	REC APP



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PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY RPEQ 7112**



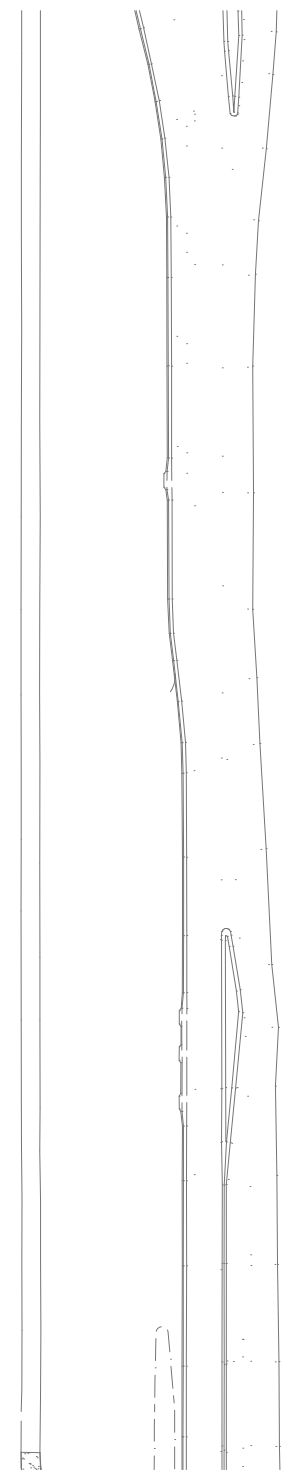
CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

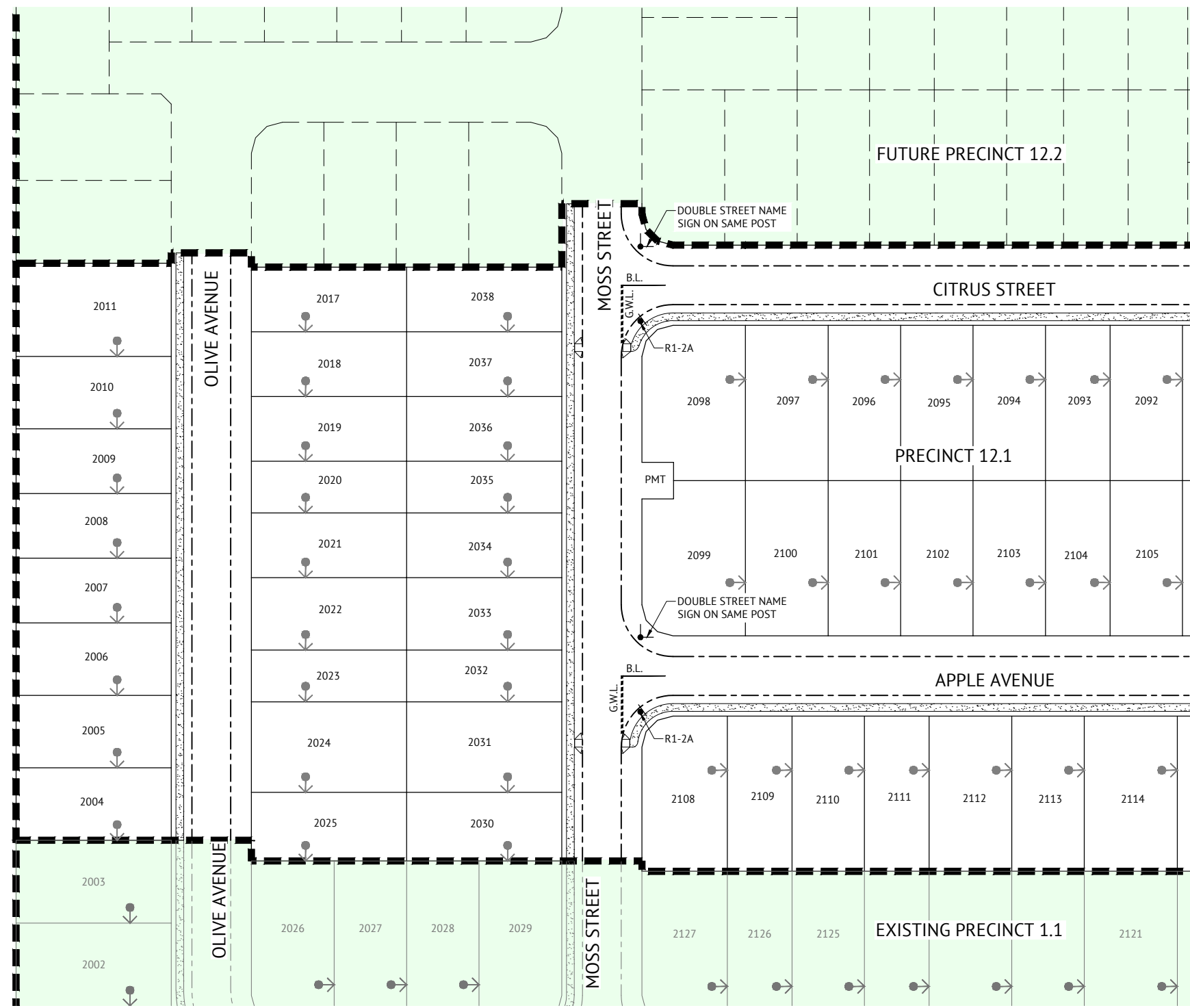
LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**INTERSECTION DETAILS LAYOUT - SHEET 2 OF 2**

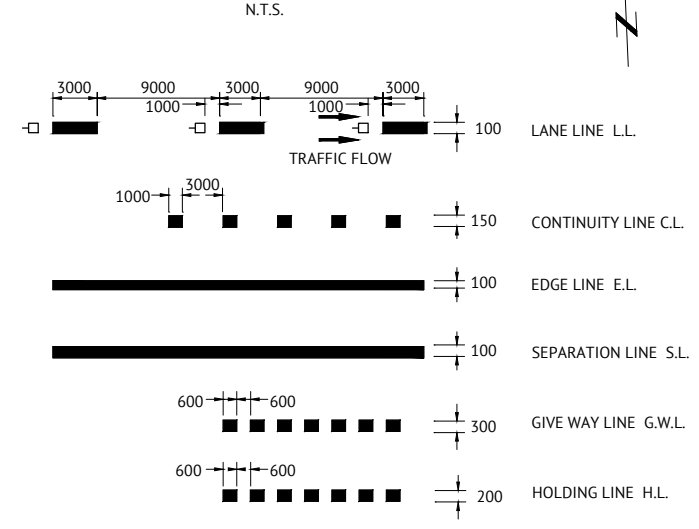
JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C331</b>	REV <b>A</b>



TEVIOT ROAD



TYPICAL LINEMARKING LEGEND



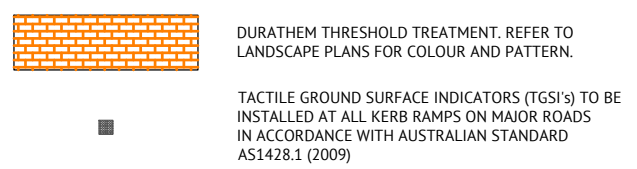
LINEMARKING NOTES

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

SIGNAGE NOTES

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

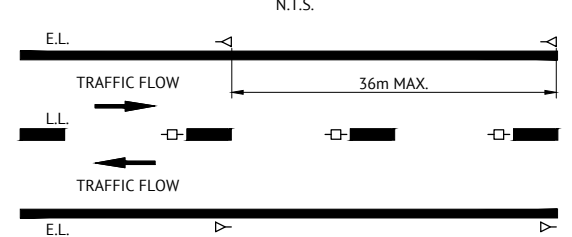
LEGEND



REQUIRED SIGNS



TYPICAL TWO LANE TWO-WAY ROAD

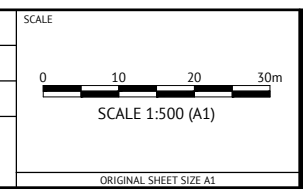


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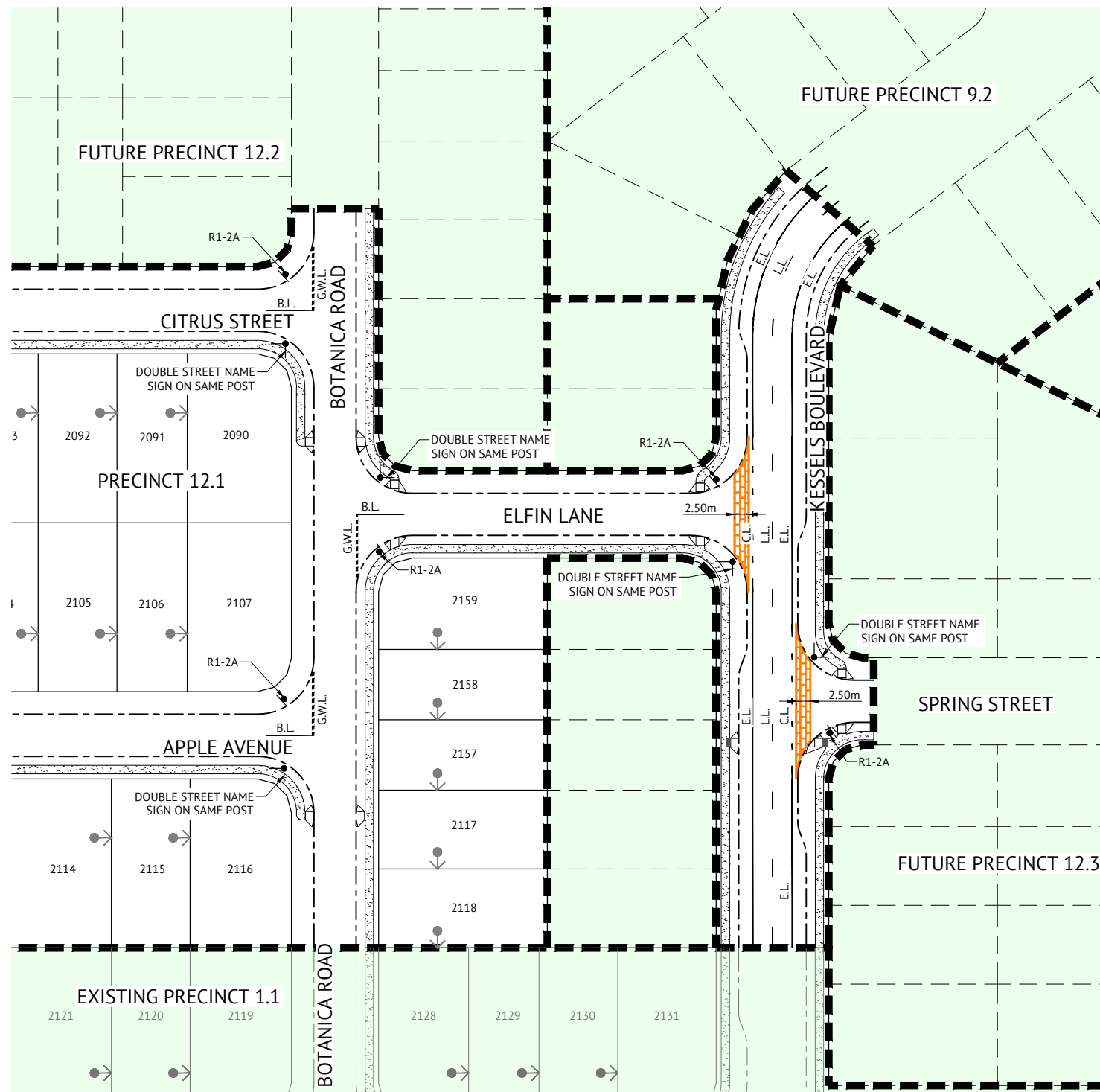
DESIGNED  
K KIWANG  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
PAT BRADY RPEQ 7112



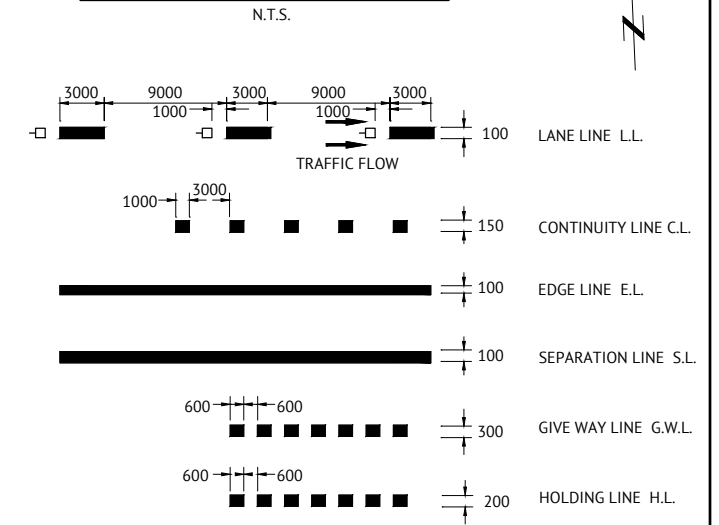
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C340**  
 REV  
**A**

DATE	REV	DESCRIPTION	REC	APP
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
DATE	REV	DESCRIPTION	REC	APP



**TYPICAL LINEMARKING LEGEND**



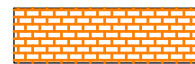
**LINEMARKING NOTES**

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**SIGNAGE NOTES**

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  - AS1743 ROAD SIGNS SPECIFICATION
  - AS4049.1 PAVEMENT MARKING MATERIALS
- STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

**LEGEND**



DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.



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

**REQUIRED SIGNS**

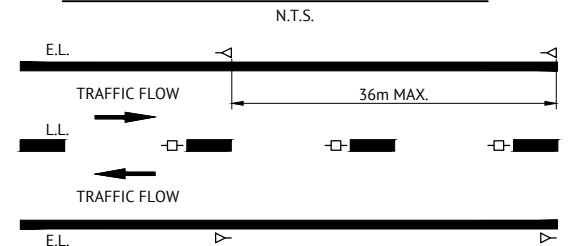


R1-2A



R2-3A(L)

**TYPICAL TWO LANE TWO-WAY ROAD**

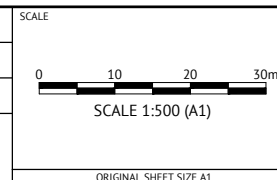


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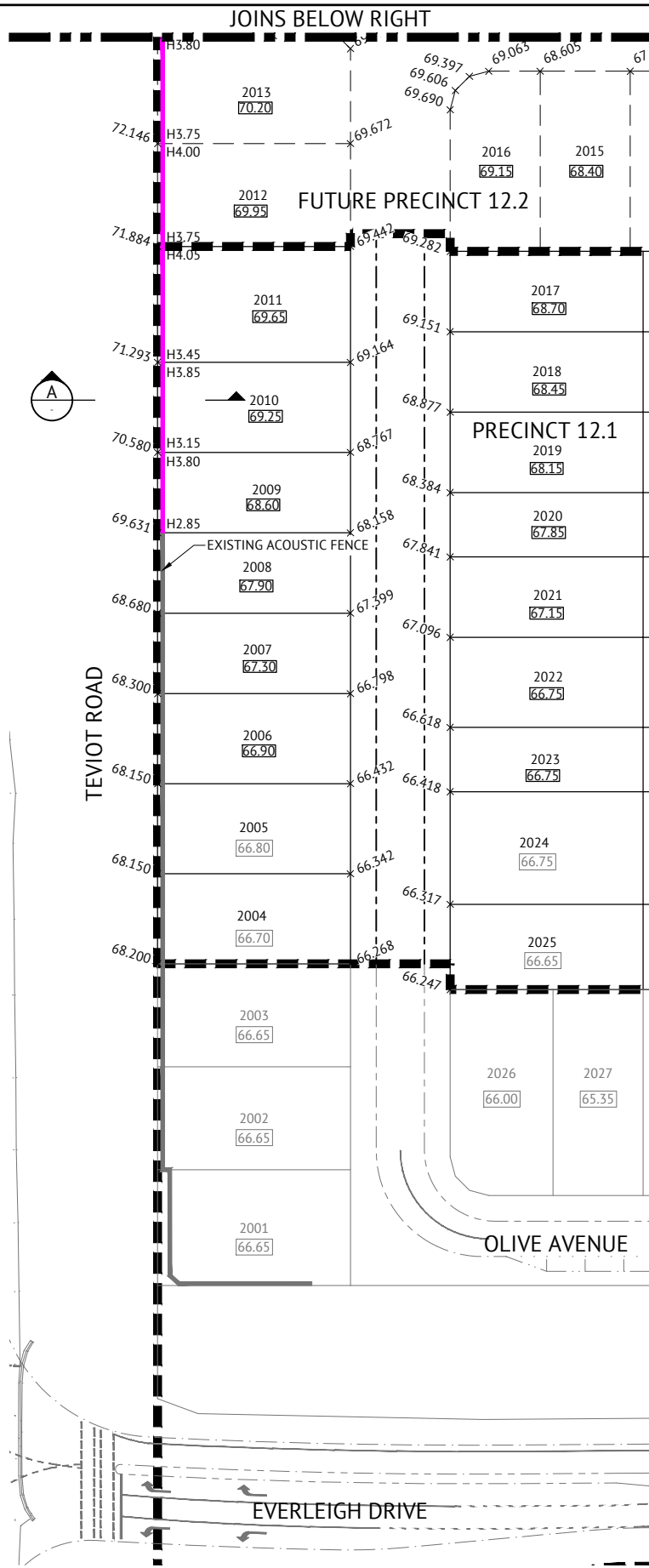
DESIGNED  
K KIWANG  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
*[Signature]*  
 PAT BRADY RPEQ 7112



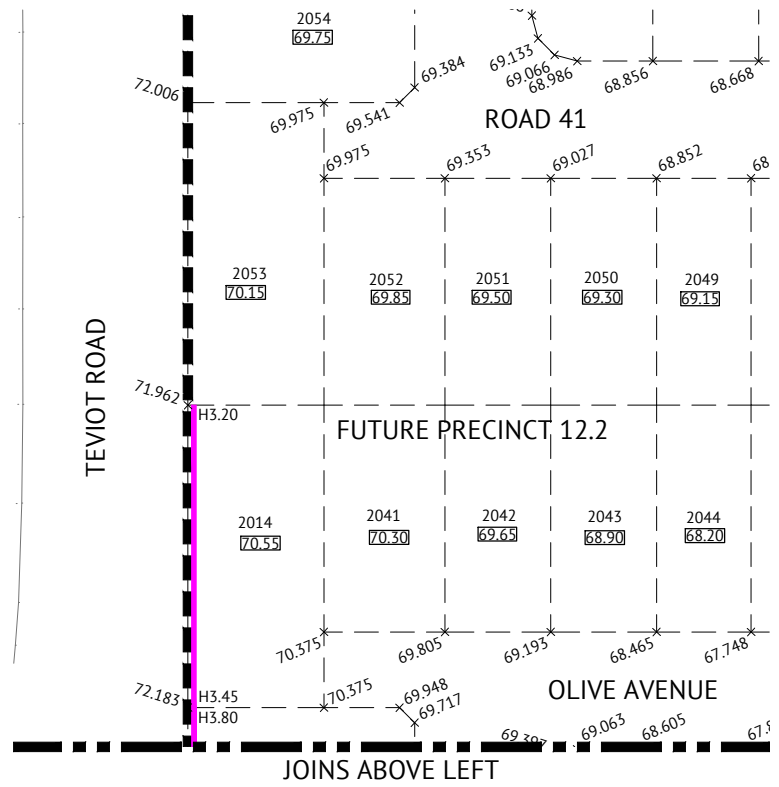
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C341**  
 REV  
**A**

DATE	REV	DESCRIPTION	REC	APP
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DATE	REV	DESCRIPTION	REC	APP



LAYOUT PLAN  
SCALE: 1:500



LEGEND - PROPOSED

- 1.8m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.
- H1.80 TOTAL HEIGHT FROM TOP OF FENCE TO LOWEST POINT ON EITHER SIDE OF ACOUSTIC FENCE

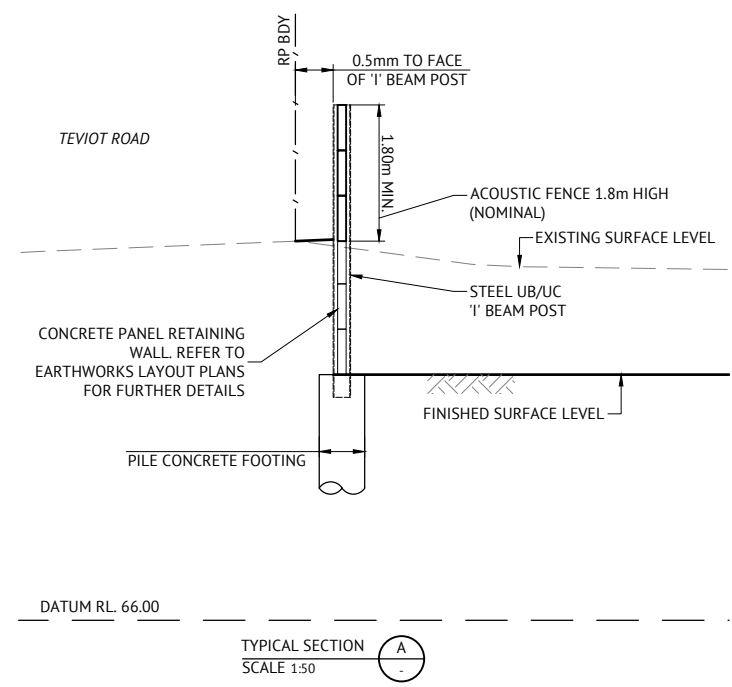
LEGEND - EXISTING

- 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.

- 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/m<sup>2</sup>, 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.

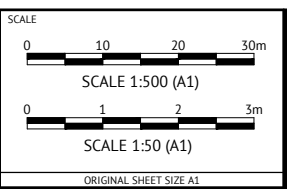


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DESIGNED  
K KIWANG  
CHECKED  
M MAJZNER  
PROJECT MANAGER  
R LLEWELYN  
PROJECT DIRECTOR  
PAT BRADY RPEQ 7112

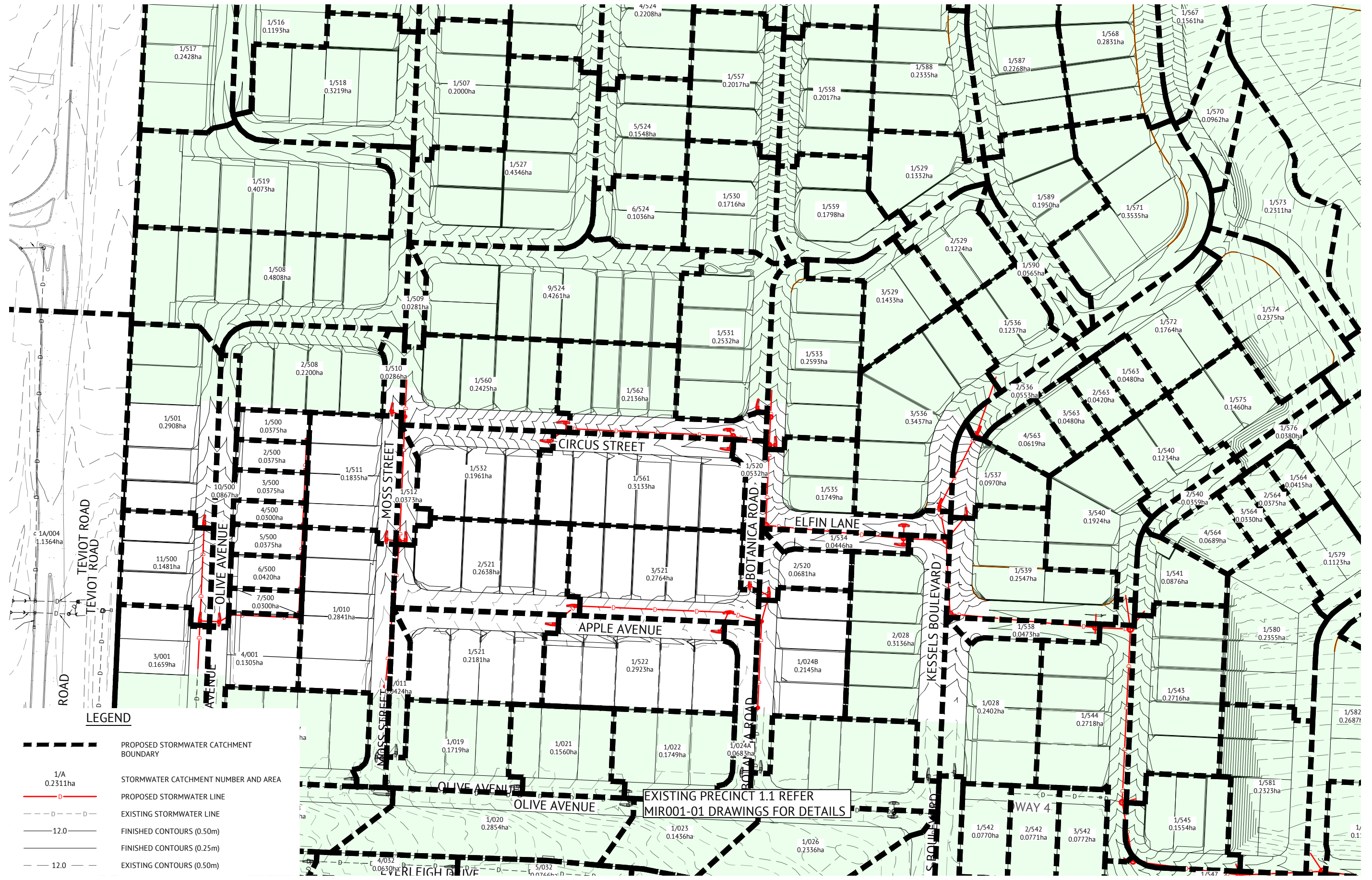
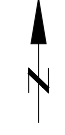


CLIENT  
MIRVAC  
PROJECT  
EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT  
LOCATION  
TEVIOT ROAD, GREENBANK  
SHEET TITLE  
ACOUSTIC FENCE LAYOUT PLAN

JOB CODE  
MIR012-01  
SHEET NUMBER  
C350  
REV  
A

DD/MM/YYYY	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
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**LEGEND**

- PROPOSED STORMWATER CATCHMENT BOUNDARY
- STORMWATER CATCHMENT NUMBER AND AREA
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- FINISHED CONTOURS (0.50m)
- FINISHED CONTOURS (0.25m)
- EXISTING CONTOURS (0.50m)

EXISTING PRECINCT 1.1 REFER  
MIR001-01 DRAWINGS FOR DETAILS

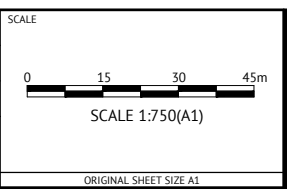
**FOR CONSTRUCTION**

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



CLIENT  
**MIRVAC GROUP**

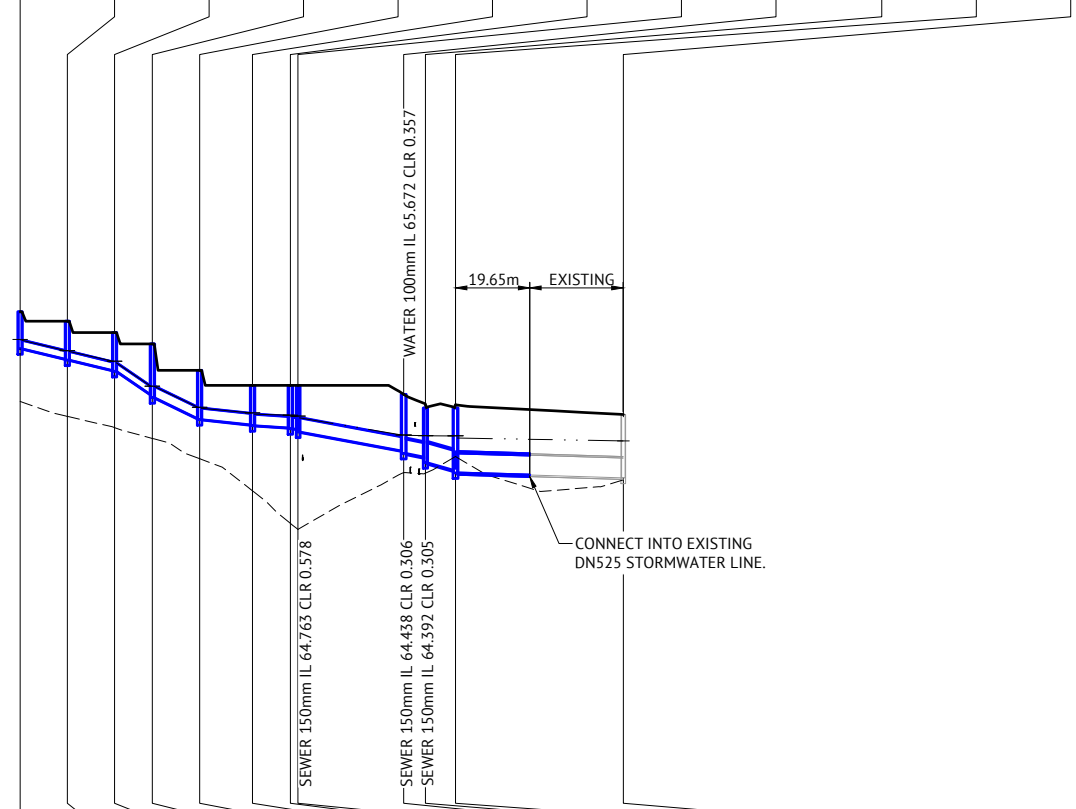
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**STORMWATER DRAINAGE CATCHMENT LAYOUT**

JOB CODE		<b>MIR012-01</b>
SHEET NUMBER	REV	
<b>C400</b>	<b>A</b>	

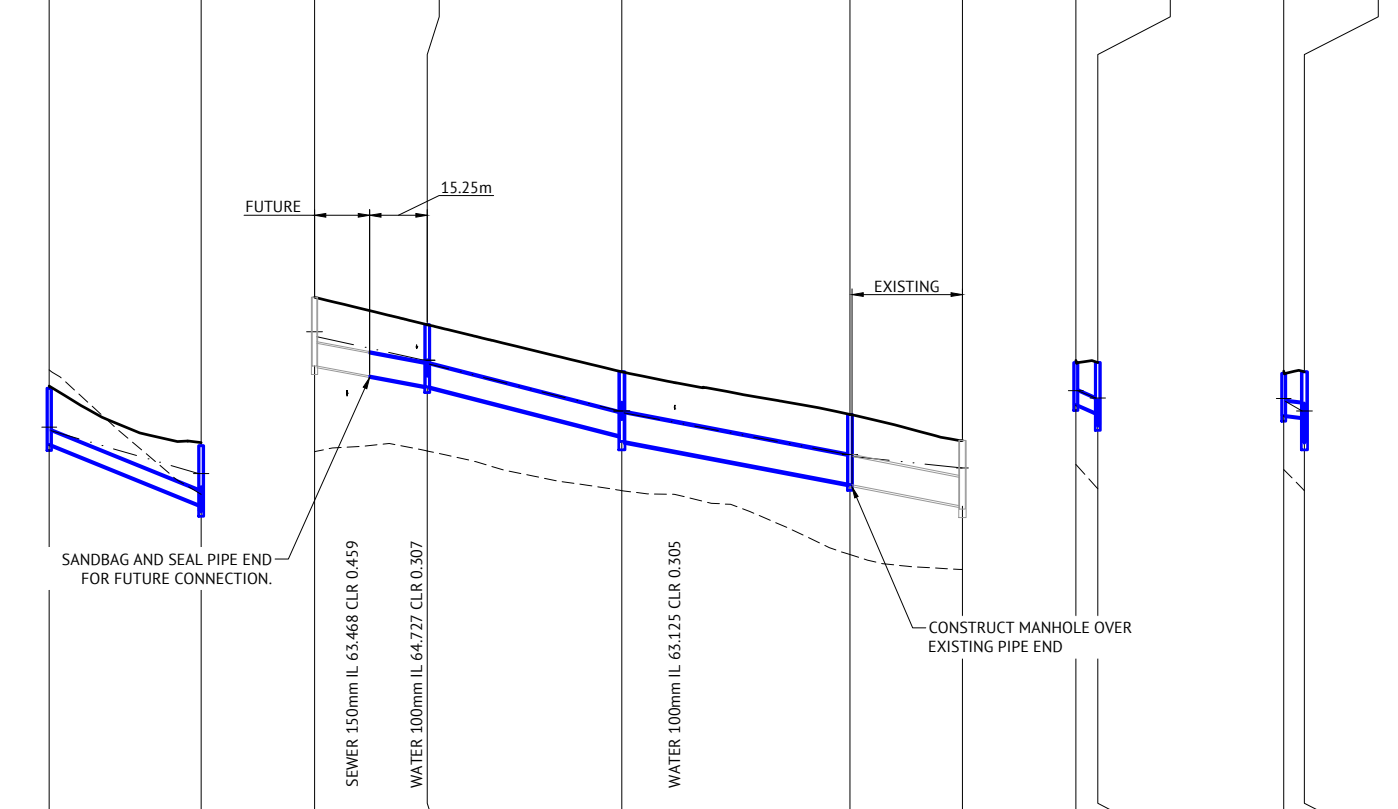
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STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel ON 1050mm DIA MANHOLE



PIPE SIZE (mm)	225	225	225	300	300	300	300	375	375	525	525	
PIPE CLASS	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	uPVC	2	2	2	
PIPE GRADE (%)	2.24%	2.24%	6.19%	4.50%	1.00%	0.60%	0.60%	1.80%	1.70%	2.50%	0.30%	
PIPE SLOPE (1 in X)	44.6	44.7	16.2	22.2	100.0	166.7	166.7	55.6	58.8	40.0	330.2	
FULL PIPE VELOCITY (m/s)	0.24	0.48	0.72	0.51	0.65	0.80	0.90	0.57	0.57	0.39	0.83	
PART FULL VELOCITY (m/s)	1.35	1.65	2.66	2.47	1.53	1.35	1.36	2.04	1.77	2.14	1.20	
PIPE FLOW (cumecs)	0.010	0.019	0.029	0.036	0.046	0.056	0.064	0.063	0.063	0.085	0.180	
PIPE CAPACITY AT GRADE (cumecs)	0.079	0.079	0.152	0.245	0.114	0.089	0.089	0.278	0.229	0.680	0.237	
DATUM RL	49.0											
WSE IN STRUCTURE	67.969			66.731	66.170			65.967	65.940	65.441	65.418	65.282
HGL IN PIPE	67.947	67.672	67.647	66.731	66.170	66.146	66.025	65.967	65.424	65.418	65.360	65.282
DEPTH OF INVERT BELOW FSL	0.978	1.008	1.028	1.346	1.284	1.304	1.044	1.124	1.299	1.645	1.619	
INVERT LEVEL	67.722	67.442	67.422	66.504	65.866	65.846	65.706	65.626	64.856	64.510	64.304	
FINISHED (& EXISTING) SURFACE LEVEL	68.700	68.450	68.150	67.850	67.150	66.812	66.750	66.750	66.155	66.155	65.923	
CHAINAGE	0.000	12.500	12.500	25.000	10.000	35.000	12.500	47.500	14.000	61.500	71.500	101.500

LINE 500

STRUCTURE NAME	1/501	11/500	7/502	8/502	9/502	10/502	9/009	1/510	8/502	1/511	9/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA



PIPE SIZE (mm)	375	600	600	750	750	375	375
PIPE CLASS	2	2	2	2	2	2	2
PIPE GRADE (%)	3.96%	1.80%	2.51%	1.87%	1.91%	3.70%	1.00%
PIPE SLOPE (1 in X)	25.3	55.6	39.9	53.5	52.3	27.0	100.0
FULL PIPE VELOCITY (m/s)	0.51	3.16	3.17	2.12	2.10	0.06	0.39
PART FULL VELOCITY (m/s)	2.32	3.16	3.90	3.62	3.65	1.21	1.31
PIPE FLOW (cumecs)	0.056	0.895	0.895	0.936	0.928	0.007	0.043
PIPE CAPACITY AT GRADE (cumecs)	0.349	0.824	0.973	1.522	1.540	0.337	0.175
DATUM RL	50.0	46.0				47.0	46.0
WSE IN STRUCTURE	66.647	65.178				64.614	63.406
HGL IN PIPE	66.555	65.049	64.417	63.073	63.002	64.612	63.351
DEPTH OF INVERT BELOW FSL	1.496	1.812	1.625	1.690	1.840	1.115	1.115
INVERT LEVEL	66.180	64.270	63.733	62.422	62.272	64.237	62.956
FINISHED (& EXISTING) SURFACE LEVEL	67.676	66.083	65.358	64.112	60.967	65.352	64.071
CHAINAGE	0.000	29.835	29.835	51.469	81.304	141.672	171.434

LINE 501 502 510 511

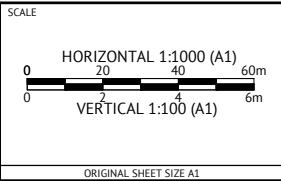
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DD/MM/YYYY	REV	DESCRIPTION	MM REC	PB APP
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 WEB: www.premise.com.au

DESIGNED	B ADAMS
CHECKED	M MAJZNER
PROJECT MANAGER	R LLEWELYN
PROJECT DIRECTOR	
PAT BRADY	RPEQ 7112



CLIENT	MIRVAC GROUP
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

JOB CODE	MIR012-01
SHEET NUMBER	C410
REV	A

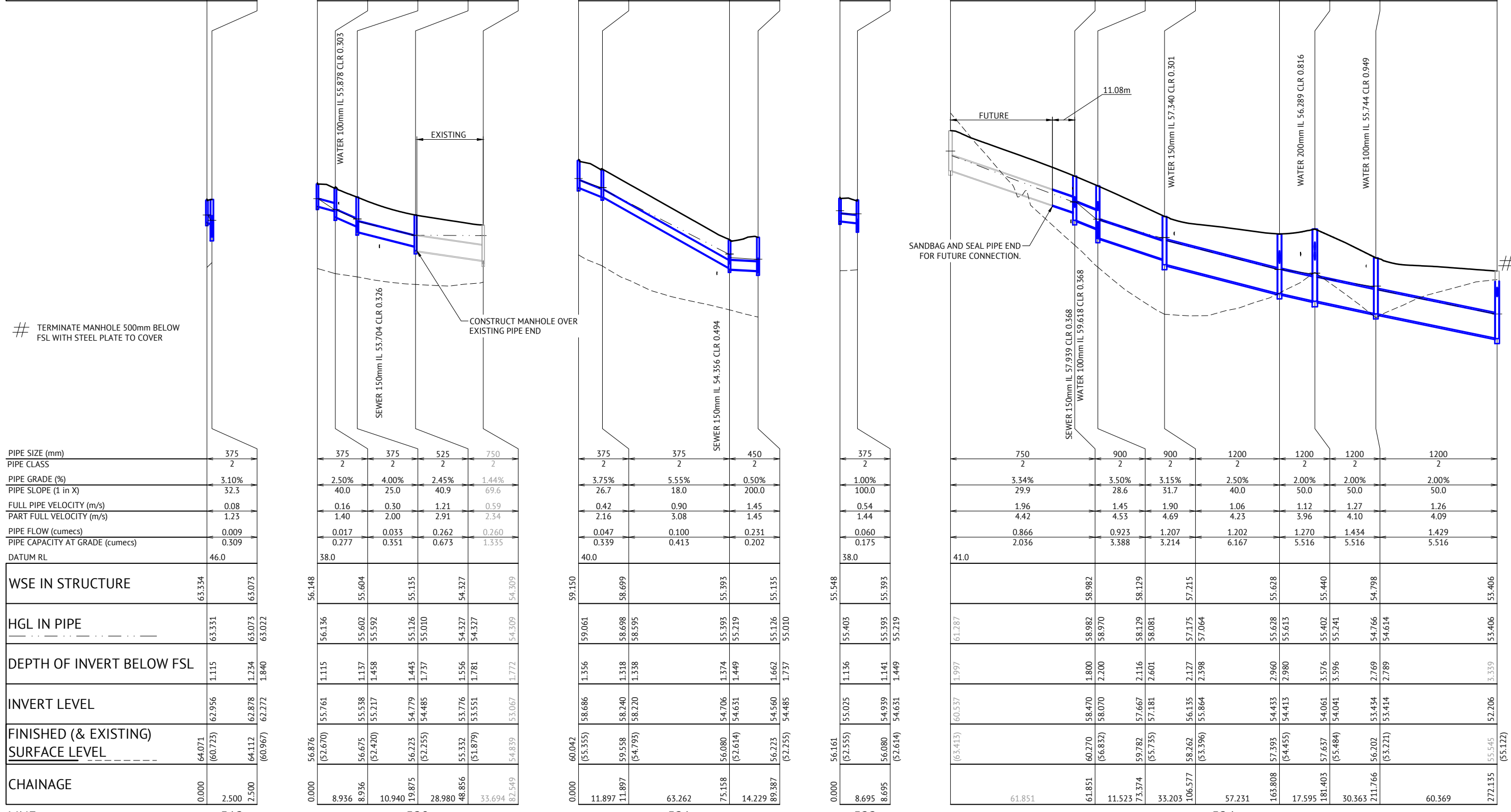
STRUCTURE NAME	1/512	9/502
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA

1/520	2/520	3/520	4/520	6/024
IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA

1/521	2/521	3/521	3/520
IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA

1/522	3/521
IPWEA KERB INLET L.L.I.: 2.4m Lintel	IPWEA KERB INLET (SAG) L.L.I.: 2.4m Lintel

12/524	13/524	14/524	15/524	16/524	17/524	18/524	19/524
IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA



# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.10%
PIPE SLOPE (1 in X)	32.3
FULL PIPE VELOCITY (m/s)	0.08
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.009
PIPE CAPACITY AT GRADE (cumecs)	0.309
DATUM RL	46.0
WSE IN STRUCTURE	63.334
HGL IN PIPE	63.331
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	62.956
FINISHED (& EXISTING) SURFACE LEVEL	64.071
CHAINAGE	0.000

375	375	525	750
2	2	2	2
2.50%	4.00%	2.45%	1.44%
40.0	25.0	40.9	69.6
0.16	0.30	1.21	0.59
1.40	2.00	2.91	2.34
0.017	0.033	0.262	0.260
0.277	0.351	0.673	1.335
38.0	56.148	55.604	55.135
56.136	55.602	55.010	54.327
1.115	1.137	1.458	1.737
55.761	55.538	54.485	53.776
64.071	64.112	64.112	64.112
0.000	2.500	2.500	2.500

375	375	450
2	2	2
3.75%	5.55%	0.50%
26.7	18.0	200.0
0.42	0.90	1.45
2.16	3.08	1.45
0.047	0.100	0.231
0.339	0.413	0.202
40.0	59.150	55.393
59.061	58.698	55.219
1.356	1.318	1.449
58.686	58.240	54.706
60.042	60.042	60.042
11.897	63.262	14.229
0.000	8.695	8.695

375
2
1.00%
100.0
0.54
1.44
0.060
0.175
38.0
55.548
55.403
1.136
55.025
56.080
56.161
0.000
8.695

750	900	900	1200	1200	1200	1200
2	2	2	2	2	2	2
3.34%	3.50%	3.15%	2.50%	2.00%	2.00%	2.00%
29.9	28.6	31.7	40.0	50.0	50.0	50.0
1.96	1.45	1.90	1.06	1.12	1.27	1.26
4.42	4.53	4.69	4.23	3.96	4.10	4.09
0.866	0.923	1.207	1.202	1.270	1.434	1.429
2.036	3.388	3.214	6.167	5.516	5.516	5.516
41.0	58.982	58.129	57.215	55.628	55.400	53.406
59.061	58.970	58.081	57.064	55.628	55.241	53.406
1.356	1.800	2.116	2.127	2.960	3.576	3.359
58.686	58.470	57.667	56.135	54.433	54.061	52.206
60.042	60.537	59.782	58.262	56.455	55.484	55.545
11.897	61.851	11.523	33.203	17.595	30.363	60.369
0.000	61.851	61.851	61.851	61.851	61.851	61.851
8.695	61.851	61.851	61.851	61.851	61.851	61.851

LINE 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272.135

FOR CONSTRUCTION

**Premise**  
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DESIGNED B ADAMS  
 CHECKED M MAJZNER  
 PROJECT MANAGER R LLEWELYN  
 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112

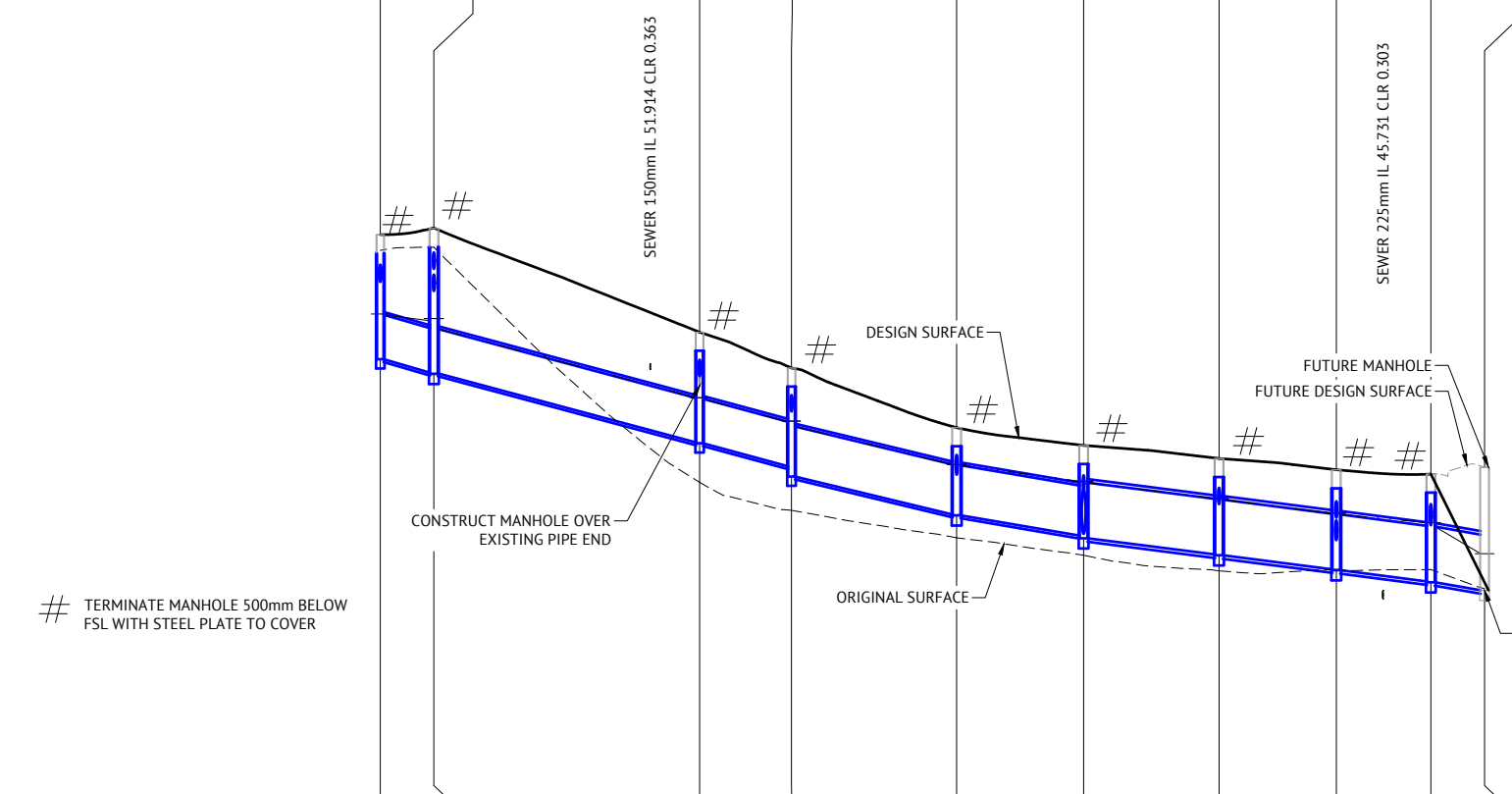
SCALE  
 HORIZONTAL 1:1000 (A1)  
 VERTICAL 1:100 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT MIRVAC GROUP  
 PROJECT EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT  
 LOCATION TEVIOT ROAD, GREENBANK  
 SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 2

JOB CODE MIRO12-01  
 SHEET NUMBER C411  
 REV A

11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP

STRUCTURE NAME	19/524	20/524	21/524	22/524	23/524	24/524	25/524	26/524	27/524	28/524
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	TEMPORARY OUTLET

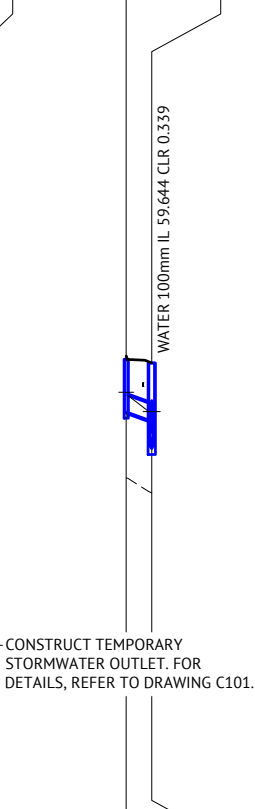


PIPE SIZE (mm)	1200	1200	1200	1350	1350	1500	1500	1500	1500	450	375	525	750	375
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)	2.50%	2.60%	2.50%	2.30%	1.60%	1.20%	1.20%	1.20%	1.50%	3.00%	5.00%	3.02%	2.00%	2.65%
PIPE SLOPE (1 in X)	40.0	38.5	40.0	43.4	62.5	83.3	83.3	66.7	20.0	20.0	33.1	50.0	100.0	37.7
FULL PIPE VELOCITY (m/s)	1.32	1.43	1.51	1.23	1.25	1.57	1.58	1.70	1.71	0.42	0.40	0.43	0.54	0.09
PART FULL VELOCITY (m/s)	4.49	4.66	4.66	4.52	3.99	4.02	4.03	4.10	4.46	2.16	2.34	2.36	2.57	1.23
PIPE FLOW (cumecs)	1.488	1.621	1.710	1.755	1.791	2.783	2.796	2.998	3.028	0.066	0.044	0.094	0.237	0.010
PIPE CAPACITY AT GRADE (cumecs)	6.167	6.289	6.167	8.101	6.754	7.747	7.747	7.747	8.661	0.494	0.392	0.748	1.575	0.286
DATUM RL	34.0									42.0	42.0			39.0

WSE IN STRUCTURE	53.406	53.284	51.152	50.518	49.349	48.899	48.434	48.040	47.786	59.496	61.202	58.275	58.129	56.406
HGL IN PIPE	53.406	53.386	51.152	50.493	49.349	48.862	48.434	48.040	47.786	59.410	61.124	58.275	58.129	56.402
DEPTH OF INVERT BELOW FSL	3.339	3.359	2.974	2.994	2.344	2.503	2.589	2.685	2.916	1.407	1.352	1.897	2.581	1.315
INVERT LEVEL	52.206	51.825	49.942	49.305	48.000	47.433	46.924	46.524	46.199	58.960	60.749	57.735	57.201	56.027
FINISHED (& EXISTING) SURFACE LEVEL	55.545 (65.122)	55.776 (65.207)	52.916 (48.874)	51.951 (48.115)	50.344 (47.376)	49.865 (46.903)	49.513 (46.486)	49.209 (46.525)	49.094 (46.519)	60.270 (56.832)	60.749 (56.540)	59.632 (56.100)	59.782 (55.735)	57.393 (54.455)
CHAINAGE	272.135	14.455	286.590	71.643	358.233	24.792	383.025	44.532	461.794	36.519	498.313	529.933	25.499	555.432

LINE 524 531 532 533 534

STRUCTURE NAME	1/531	1/532	2/532	3/532	14/524
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.; 2.4m Lintel	IPWEA KERB INLET L.I.L.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	450	375	525	750	375
PIPE CLASS	2	2	2	2	2
PIPE GRADE (%)	3.00%	5.00%	3.02%	2.00%	2.65%
PIPE SLOPE (1 in X)	33.3	20.0	33.1	50.0	37.7
FULL PIPE VELOCITY (m/s)	0.42	0.40	0.43	0.54	0.09
PART FULL VELOCITY (m/s)	2.16	2.34	2.36	2.57	1.23
PIPE FLOW (cumecs)	0.066	0.044	0.094	0.237	0.010
PIPE CAPACITY AT GRADE (cumecs)	0.494	0.392	0.748	1.575	0.286
DATUM RL	42.0	42.0			39.0

WSE IN STRUCTURE	59.496	61.202	58.275	58.129	56.406
HGL IN PIPE	59.410	61.124	58.275	58.129	56.402
DEPTH OF INVERT BELOW FSL	1.407	1.352	1.897	2.581	1.315
INVERT LEVEL	58.960	60.749	57.735	57.201	56.027
FINISHED (& EXISTING) SURFACE LEVEL	60.270 (56.832)	60.749 (56.540)	59.632 (56.100)	59.782 (55.735)	57.393 (54.455)
CHAINAGE	-51.643	0.000	77.898	15.450	57.342

LINE 531 532 533 534

**FOR CONSTRUCTION**

11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP

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DESIGNED  
B ADAMS  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112

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

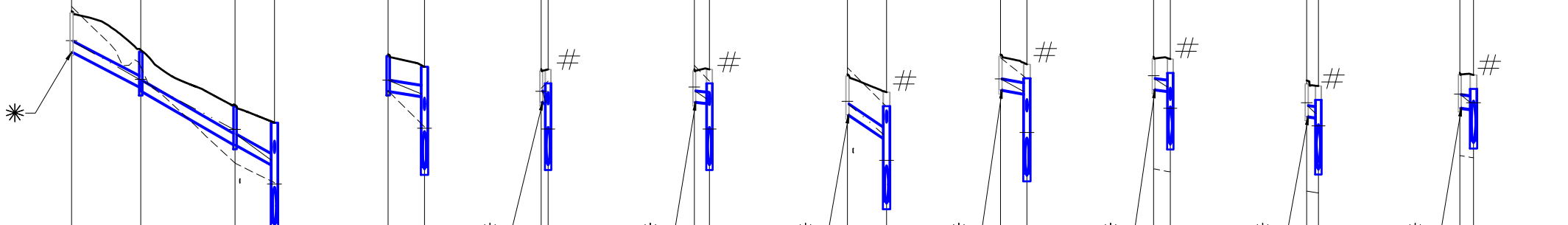
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE LONG SECTIONS - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C412**  
 REV  
**A**

STRUCTURE NAME	1/535	1/536	1/537	1/538	1/539	3/540	1/541	1/543	1/544	1/545
STRUCTURE DESCRIPTION	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 (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
PIPE SIZE (mm)	375	375	375	375	375	375	375	375	375	450
PIPE CLASS	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)	1.50%	5.00%	5.63%	3.00%	1.00%	6.00%	1.50%	1.00%	1.00%	1.00%
PIPE SLOPE (1 in X)	66.7	20.0	17.8	71.4	99.9	16.7	66.6	100.0	100.0	100.0
FULL PIPE VELOCITY (m/s)	0.61	0.26	0.79	0.21	0.56	1.10	0.19	0.49	0.49	0.29
PART FULL VELOCITY (m/s)	1.72	2.08	2.98	1.23	1.45	3.34	1.23	1.40	1.40	1.32
PIPE FLOW (cumecs)	0.067	0.029	0.088	0.023	0.062	0.121	0.021	0.054	0.054	0.046
PIPE CAPACITY AT GRADE (cumecs)	0.215	0.392	0.416	0.208	0.175	0.430	0.215	0.175	0.175	0.285
DATUM RL	39.0	41.0	41.0	37.0	37.0	38.0	37.0	34.0	34.0	32.0
WSE IN STRUCTURE	56.785	60.577	57.162	54.760	54.911	55.406	55.203	52.320	51.354	49.660
HGL IN PIPE	56.602	60.543	57.141	54.755	54.755	55.295	55.186	52.200	51.234	49.619
DEPTH OF INVERT BELOW FSL	1.115	1.407	1.261	1.115	1.115	1.390	1.211	1.115	1.170	1.197
INVERT LEVEL	56.227	60.168	56.766	54.380	54.380	54.920	54.811	51.825	50.859	49.169
FINISHED (& EXISTING) SURFACE LEVEL	57.342 (54.798)	60.186 (59.636)	58.211 (56.196)	55.495 (54.865)	55.495 (55.687)	55.726 (55.207)	55.726 (55.207)	52.916 (48.874)	51.951 (48.115)	50.366 (47.453)
CHAINAGE	0.000 5.425	24.869 28.869	33.868 58.738	0.000 2.490	0.000 5.447	0.000 14.068	0.000 9.490	0.000 5.980	0.000 4.141	0.000 4.928
LINE	535	536	537	538	539	540	541	543	544	545

# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER

\* SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.



**FOR CONSTRUCTION**

11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				



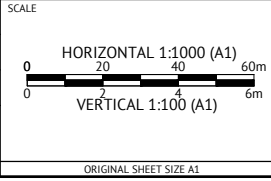
**BRISBANE OFFICE**  
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FORTITUDE VALLEY, QLD 4006  
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WEB: www.premise.com.au

DESIGNED  
**B ADAMS**

CHECKED  
**M MAJZNER**

PROJECT MANAGER  
**R LLEWELYN**

PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY RPEQ 7112**



CLIENT **MIRVAC GROUP**

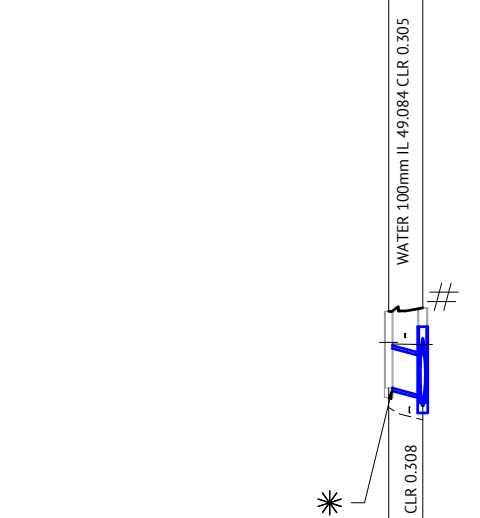
PROJECT **EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION **TEVIOT ROAD, GREENBANK**

SHEET TITLE **STORMWATER DRAINAGE LONG SECTIONS - SHEET 4**

JOB CODE		MIR012-01
SHEET NUMBER	REV	
<b>C413</b>	<b>A</b>	

STRUCTURE NAME	15/546
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1800mm DIA
	24/524
	IPWEA MANHOLE 2100mm DIA



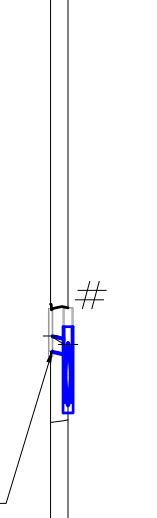
# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER

\* SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.

PIPE SIZE (mm)	1050
PIPE CLASS	2
PIPE GRADE (%)	2.10%
PIPE SLOPE (1 in X)	47.6
FULL PIPE VELOCITY (m/s)	1.13
PART FULL VELOCITY (m/s)	3.79
PIPE FLOW (cumecs)	0.977
PIPE CAPACITY AT GRADE (cumecs)	3.959
DATUM RL	32.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.953
DEPTH OF INVERT BELOW FSL	48.910
INVERT LEVEL	48.899
FINISHED (& EXISTING) SURFACE LEVEL	48.862
CHAINAGE	0.000
	8.999
	8.999

LINE 546

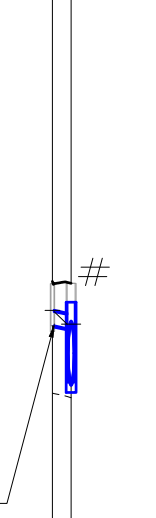
STRUCTURE NAME	1/547
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Limel
	24/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.7
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.31
PIPE FLOW (cumecs)	0.026
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	32.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	49.122
DEPTH OF INVERT BELOW FSL	49.095
INVERT LEVEL	48.899
FINISHED (& EXISTING) SURFACE LEVEL	48.862
CHAINAGE	0.000
	4.619
	4.619

LINE 547

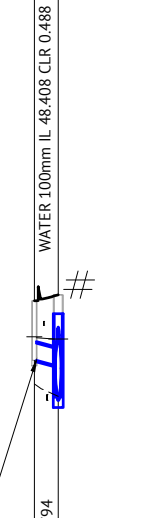
STRUCTURE NAME	1/548
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Limel
	25/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.7
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.34
PIPE FLOW (cumecs)	0.028
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	31.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.798
DEPTH OF INVERT BELOW FSL	48.766
INVERT LEVEL	48.434
FINISHED (& EXISTING) SURFACE LEVEL	48.404
CHAINAGE	0.000
	4.937
	4.937

LINE 548

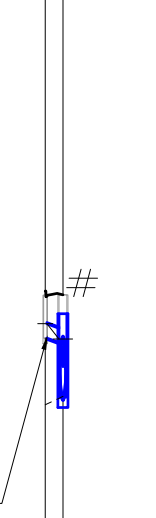
STRUCTURE NAME	4/549
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1050mm DIA
	26/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	2.00%
PIPE SLOPE (1 in X)	50.0
FULL PIPE VELOCITY (m/s)	1.35
PART FULL VELOCITY (m/s)	2.58
PIPE FLOW (cumecs)	0.215
PIPE CAPACITY AT GRADE (cumecs)	0.403
DATUM RL	31.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.101
DEPTH OF INVERT BELOW FSL	48.076
INVERT LEVEL	48.040
FINISHED (& EXISTING) SURFACE LEVEL	48.004
CHAINAGE	0.000
	6.330
	6.330

LINE 549

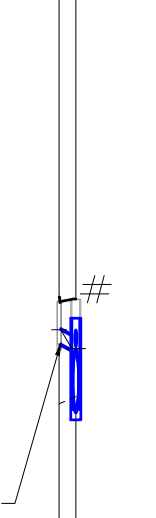
STRUCTURE NAME	1/550
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Limel
	26/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.50%
PIPE SLOPE (1 in X)	40.0
FULL PIPE VELOCITY (m/s)	0.10
PART FULL VELOCITY (m/s)	1.24
PIPE FLOW (cumecs)	0.011
PIPE CAPACITY AT GRADE (cumecs)	0.277
DATUM RL	31.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.448
DEPTH OF INVERT BELOW FSL	48.443
INVERT LEVEL	48.040
FINISHED (& EXISTING) SURFACE LEVEL	48.004
CHAINAGE	0.000
	4.689
	4.689

LINE 550

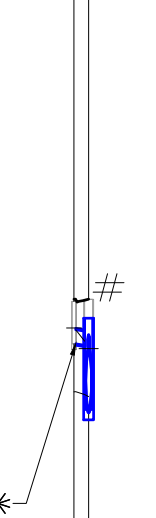
STRUCTURE NAME	1/551
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Limel
	27/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.60%
PIPE SLOPE (1 in X)	27.8
FULL PIPE VELOCITY (m/s)	0.07
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.007
PIPE CAPACITY AT GRADE (cumecs)	0.333
DATUM RL	31.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.286
DEPTH OF INVERT BELOW FSL	48.284
INVERT LEVEL	47.788
FINISHED (& EXISTING) SURFACE LEVEL	47.679
CHAINAGE	0.000
	4.424
	4.424

LINE 551

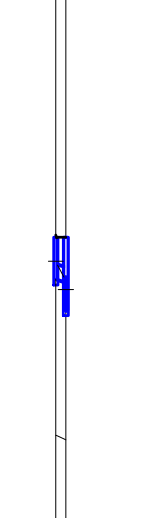
STRUCTURE NAME	1/552
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Limel
	27/524
	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.31
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.034
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	31.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	48.335
DEPTH OF INVERT BELOW FSL	48.288
INVERT LEVEL	47.986
FINISHED (& EXISTING) SURFACE LEVEL	47.679
CHAINAGE	0.000
	3.890
	3.890

LINE 552

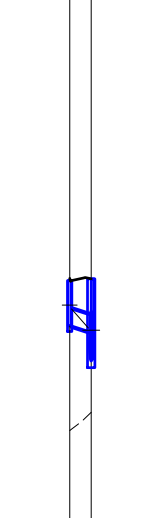
STRUCTURE NAME	1/560
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Limel
	2/532
	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.00%
PIPE SLOPE (1 in X)	50.0
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	1.76
PIPE FLOW (cumecs)	0.050
PIPE CAPACITY AT GRADE (cumecs)	0.248
DATUM RL	42.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	61.097
DEPTH OF INVERT BELOW FSL	60.995
INVERT LEVEL	60.681
FINISHED (& EXISTING) SURFACE LEVEL	60.350
CHAINAGE	0.000
	2.657
	2.657

LINE 560

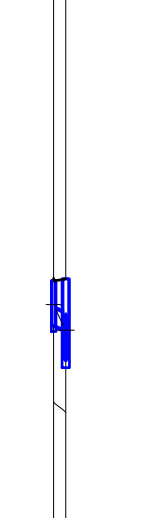
STRUCTURE NAME	1/561
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Limel
	3/532
	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	3.00%
PIPE SLOPE (1 in X)	33.3
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	2.21
PIPE FLOW (cumecs)	0.071
PIPE CAPACITY AT GRADE (cumecs)	0.494
DATUM RL	41.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	58.937
DEPTH OF INVERT BELOW FSL	58.838
INVERT LEVEL	58.275
FINISHED (& EXISTING) SURFACE LEVEL	58.260
CHAINAGE	0.000
	5.691
	5.691

LINE 561

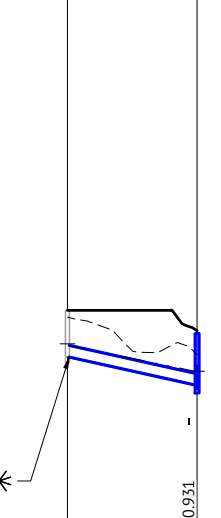
STRUCTURE NAME	1/562
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Limel
	3/532
	IPWEA MANHOLE 1500mm DIA



PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	3.00%
PIPE SLOPE (1 in X)	33.3
FULL PIPE VELOCITY (m/s)	0.47
PART FULL VELOCITY (m/s)	2.24
PIPE FLOW (cumecs)	0.075
PIPE CAPACITY AT GRADE (cumecs)	0.494
DATUM RL	41.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	58.951
DEPTH OF INVERT BELOW FSL	58.840
INVERT LEVEL	58.412
FINISHED (& EXISTING) SURFACE LEVEL	58.260
CHAINAGE	0.000
	3.237
	3.237

LINE 562

STRUCTURE NAME	4/563
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	2/536
	IPWEA KERB INLET L.I.L.: 2.4m Limel



PIPE SIZE (mm)	300
PIPE CLASS	uPVC
PIPE GRADE (%)	2.13%
PIPE SLOPE (1 in X)	46.9
FULL PIPE VELOCITY (m/s)	0.72
PART FULL VELOCITY (m/s)	2.07
PIPE FLOW (cumecs)	0.051
PIPE CAPACITY AT GRADE (cumecs)	0.167
DATUM RL	43.0
<b>WSE IN STRUCTURE</b>	
HGL IN PIPE	59.916
DEPTH OF INVERT BELOW FSL	59.868
INVERT LEVEL	59.187
FINISHED (& EXISTING) SURFACE LEVEL	59.137
CHAINAGE	0.000
	34.301
	34.301

LINE 563

**FOR CONSTRUCTION**

11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP

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

DESIGNED: B ADAMS  
CHECKED: M MAJZNER  
PROJECT MANAGER: R LLEWELYN  
PROJECT DIRECTOR: PAT BRADY  
RPEQ 7112

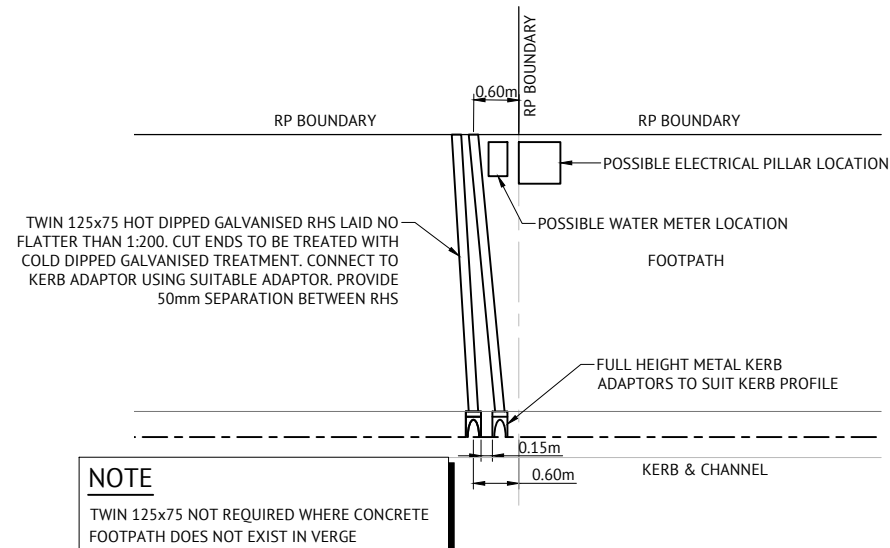
SCALE  
HORIZONTAL 1:1000 (A1)  
VERTICAL 1:100 (A1)  
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC GROUP  
PROJECT: EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT  
LOCATION: TEVIOT ROAD, GREENBANK  
SHEET TITLE: STORMWATER DRAINAGE LONG SECTIONS - SHEET 5

JOB CODE: MIR012-01	
SHEET NUMBER: C414	REV: A

**STORMWATER DRAINAGE NOTES**

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



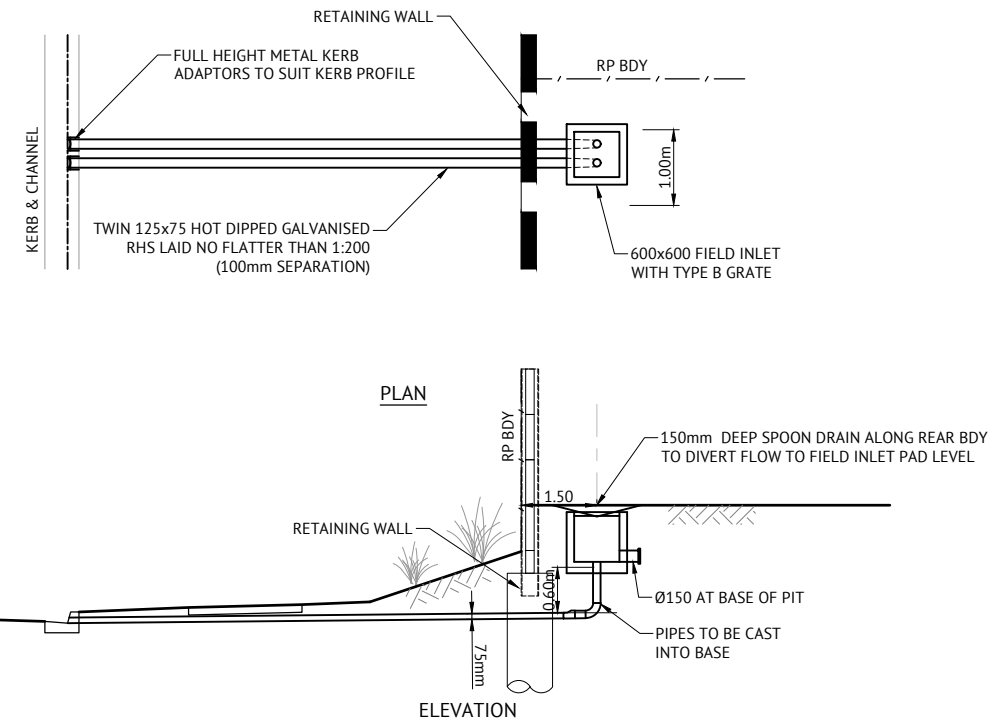
**TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL**  
N.T.S.

**REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES**

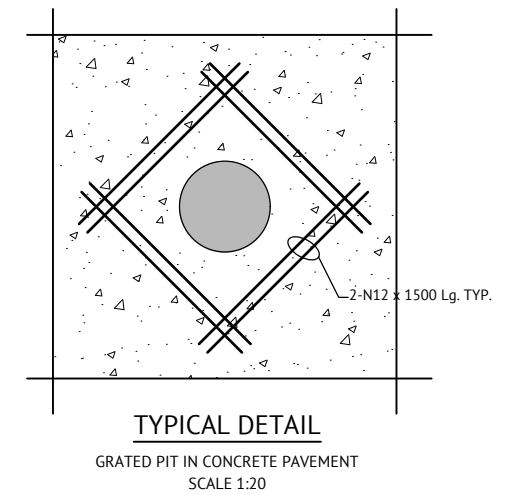
STRUCTURE TYPE	HORIZONTAL CONTROL POINT [REFERENCE POINT LOCATION]	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION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

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

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



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



**TYPICAL DETAIL**  
GRATED PIT IN CONCRETE PAVEMENT  
SCALE 1:20

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
DATE	REV	DESCRIPTION	REC	APP

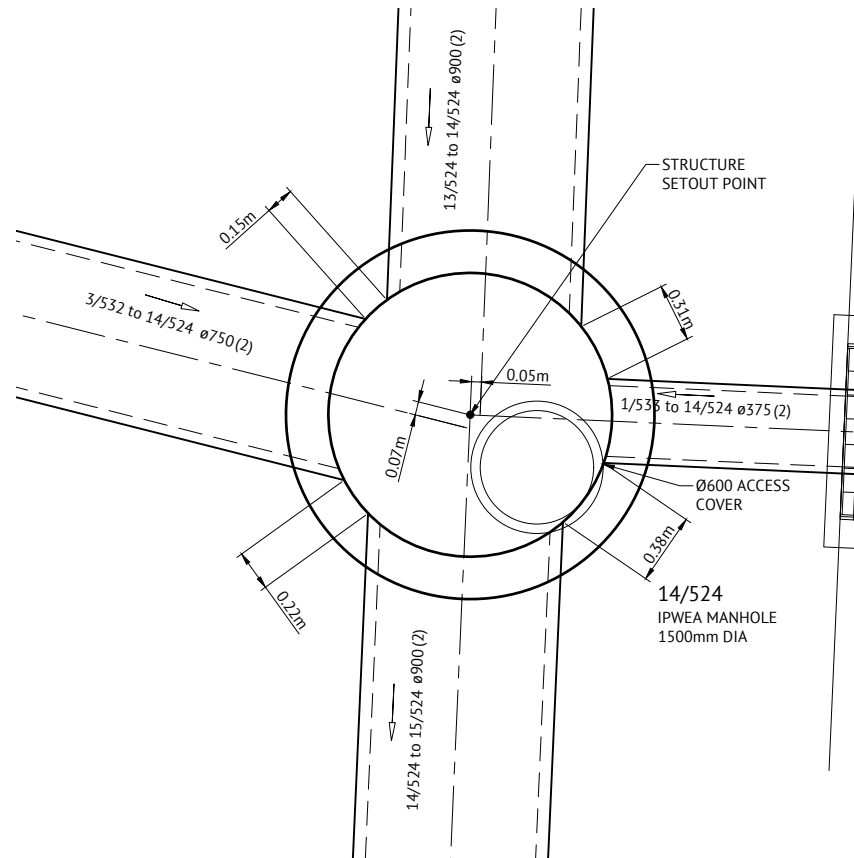
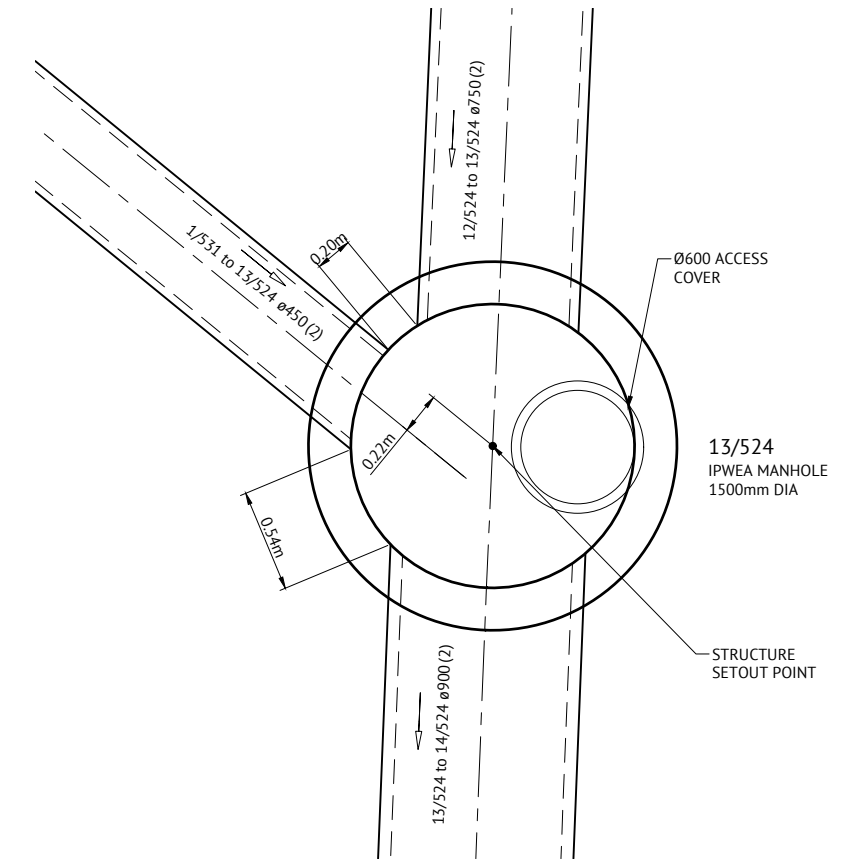
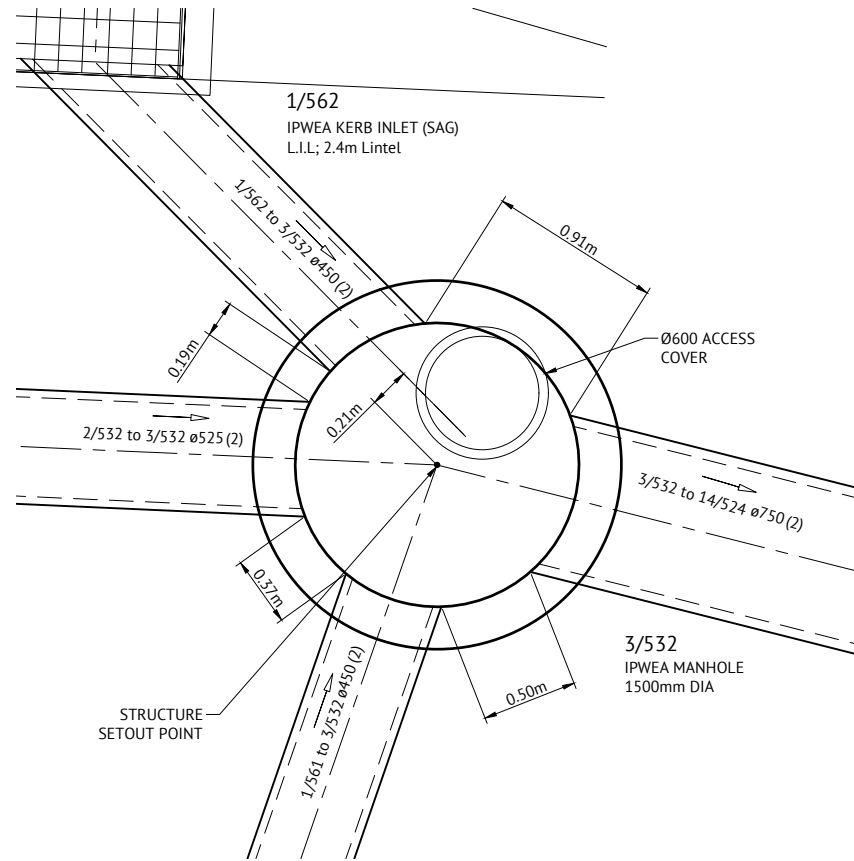
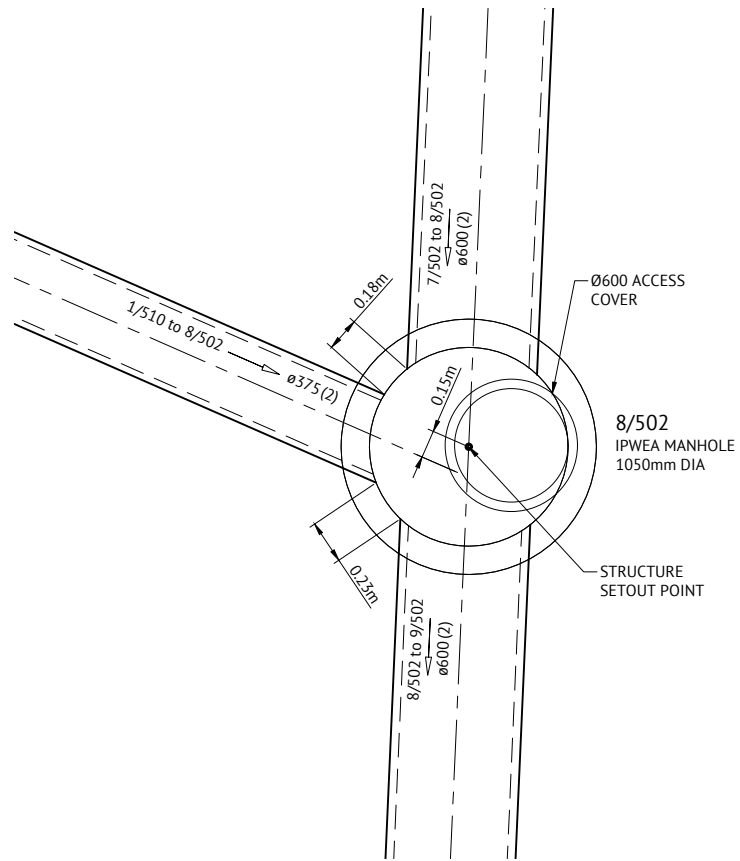
**Premise**  
BRISBANE OFFICE  
LEVEL 1, 100 BRUNSWICK STREET  
PO BOX 361  
FORTITUDE VALLEY, QLD 4006  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
B ADAMS  
CHECKED  
M MAJZNER  
PROJECT MANAGER  
R LLEWELYN  
PROJECT DIRECTOR  
PAT BRADY RPEQ 7112

SCALE  
NTS  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER DRAINAGE NOTES AND DETAILS**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C420**  
REV  
**A**

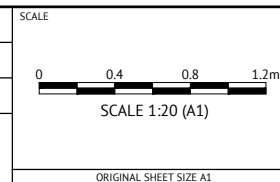


**FOR CONSTRUCTION**



**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
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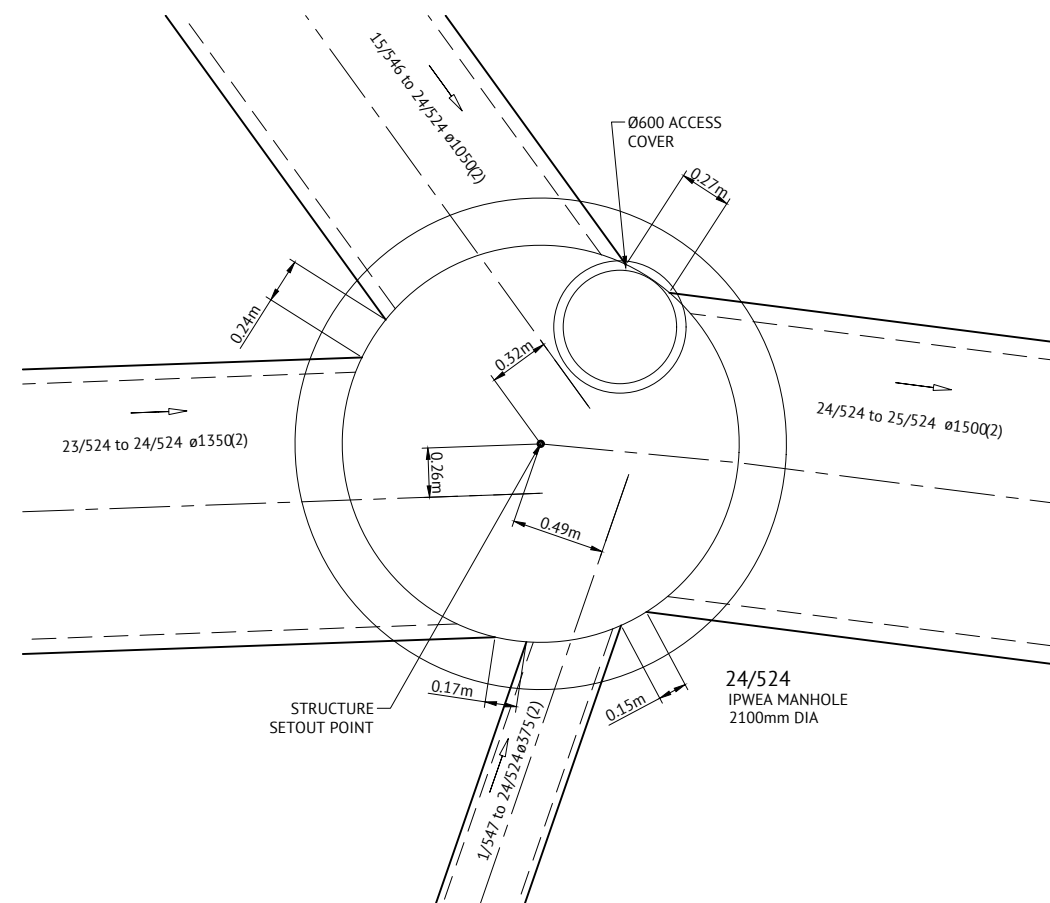
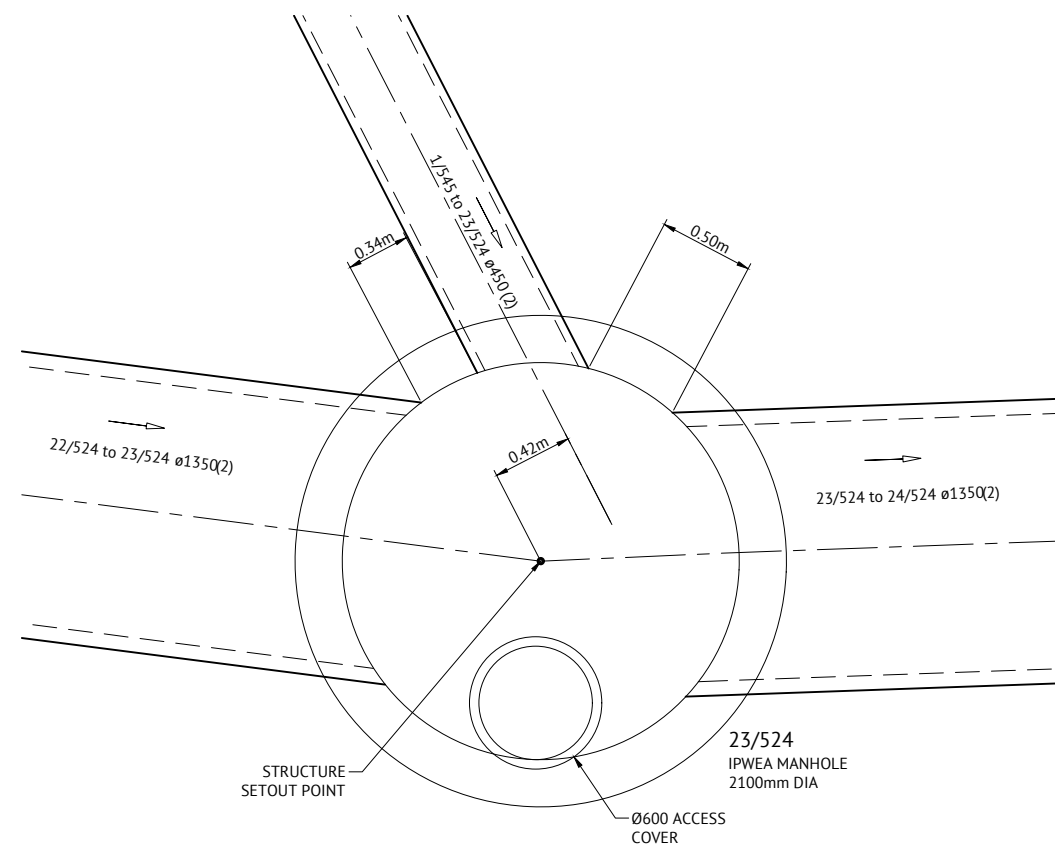
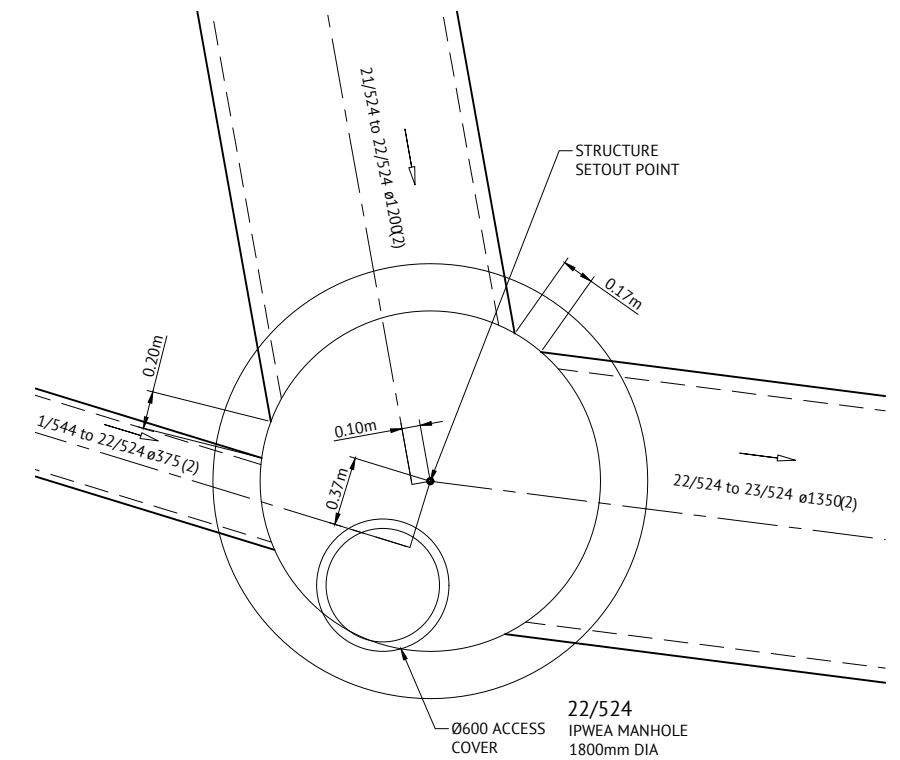
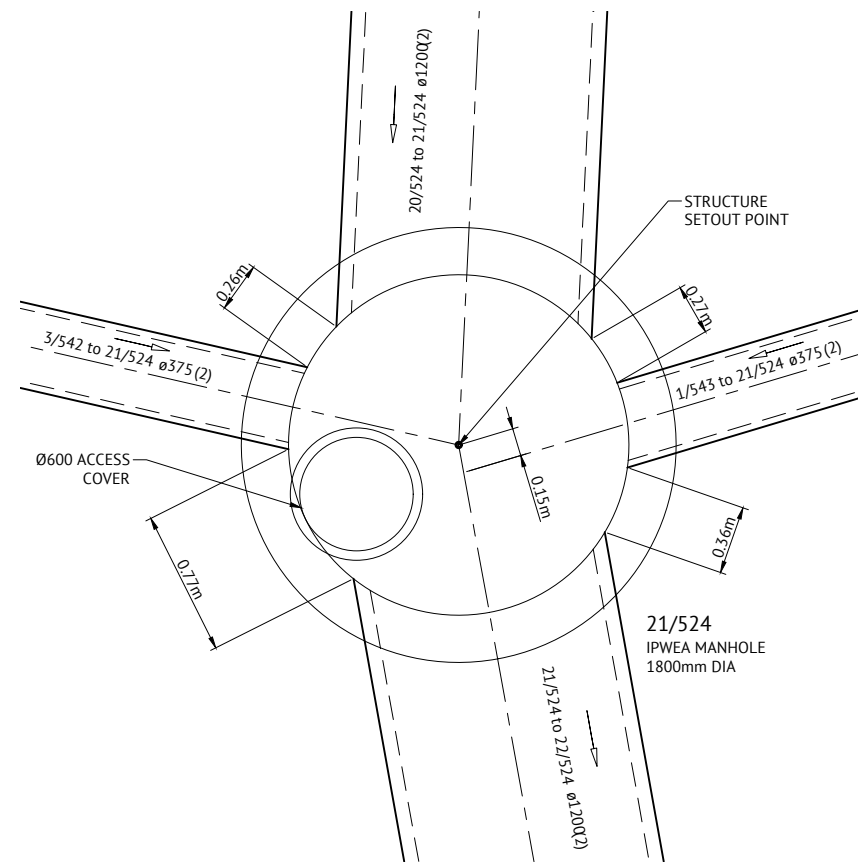
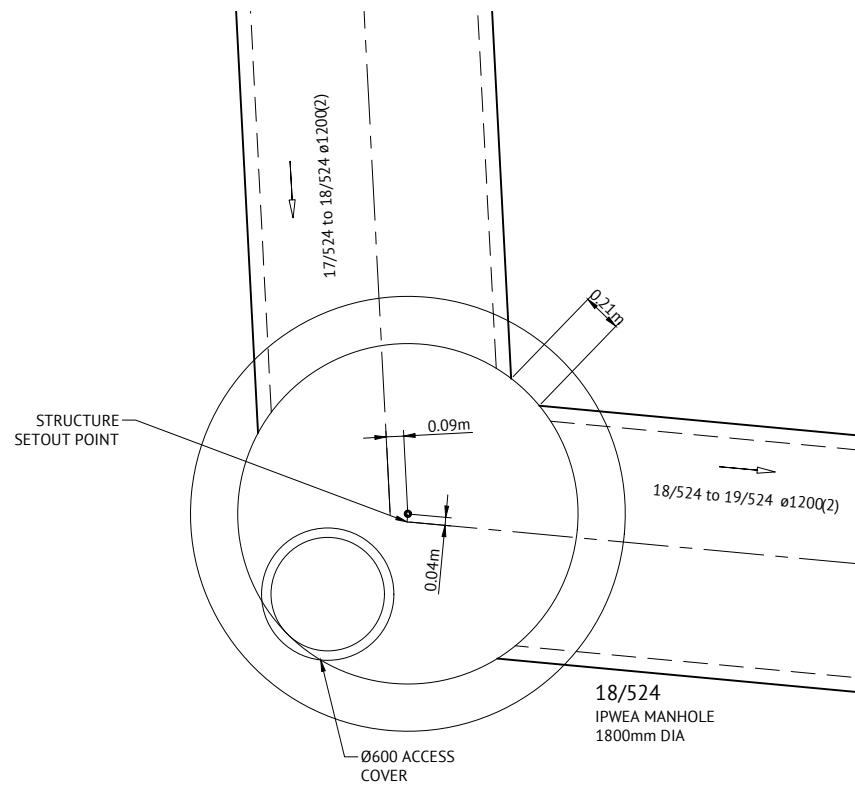


CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C430**  
 REV  
**A**

DATE	REV	DESCRIPTION	REC	APP
11/08/2020	A	APPROVAL ISSUE	MM	PB
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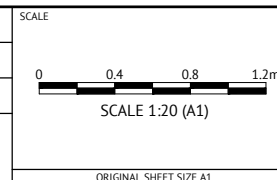


**FOR CONSTRUCTION**



**BRISBANE OFFICE**  
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 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
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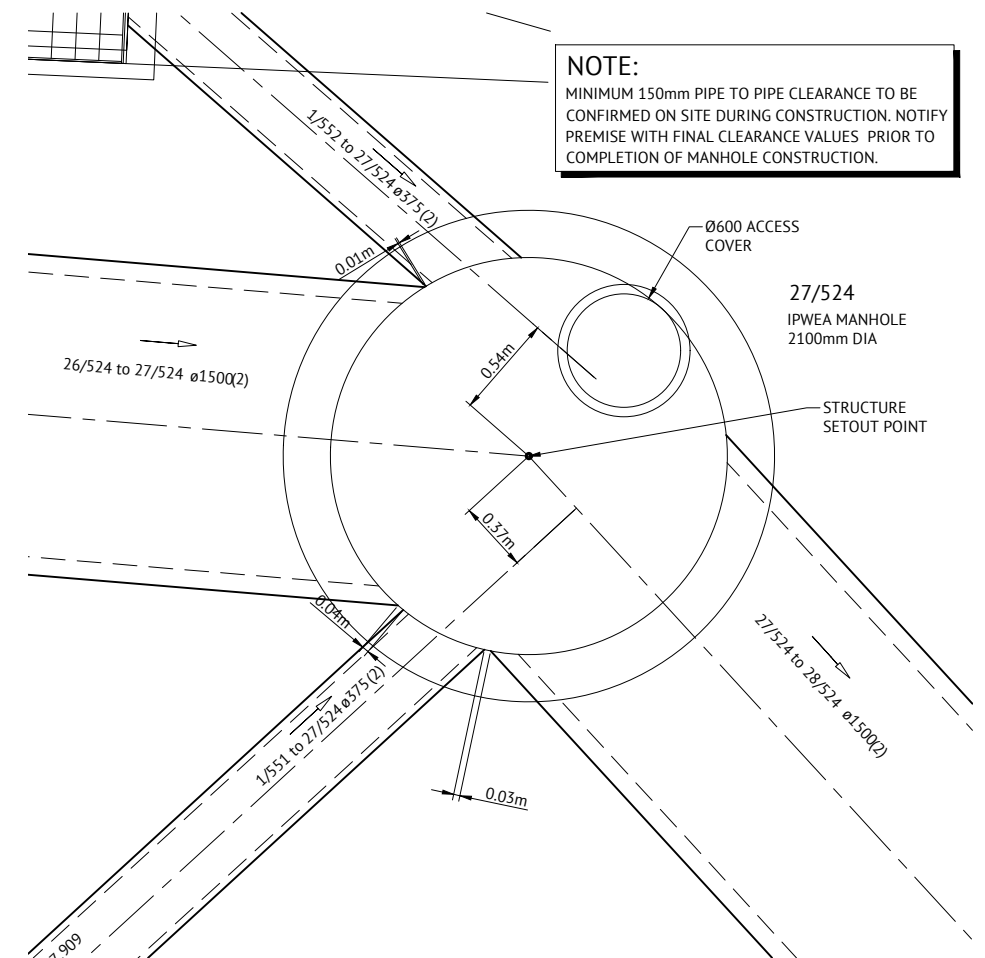
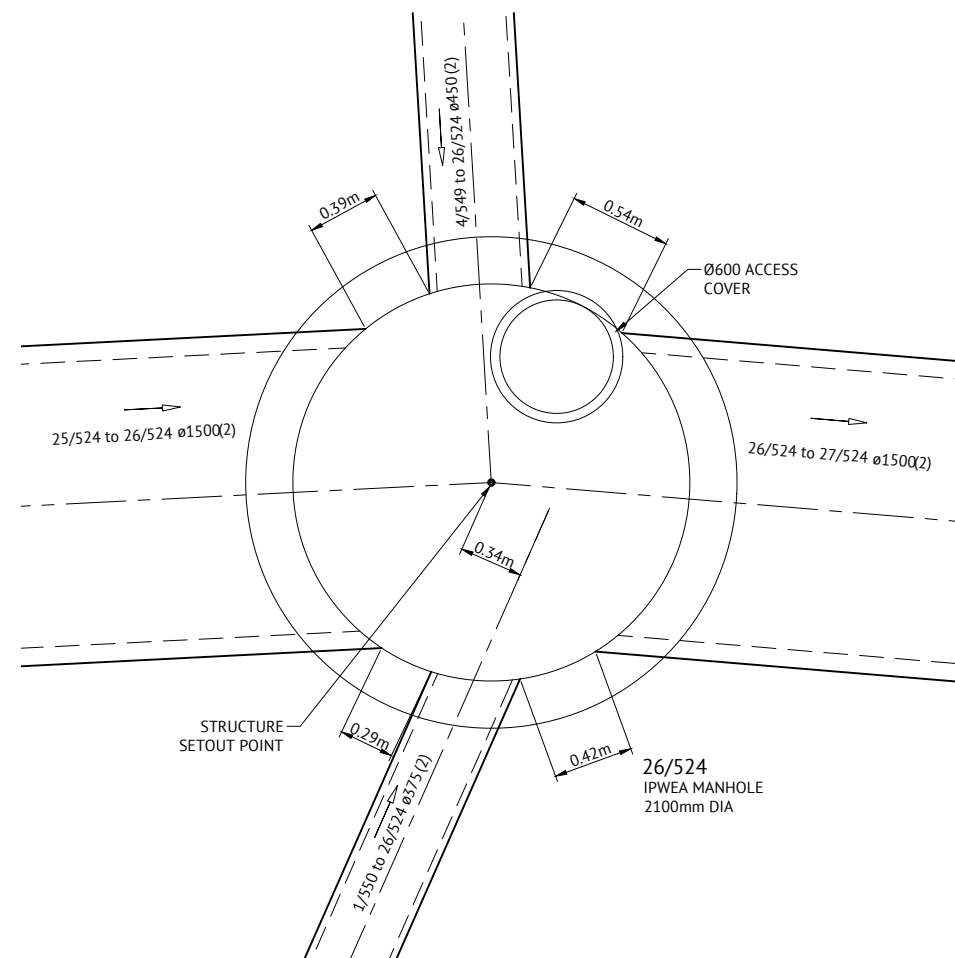
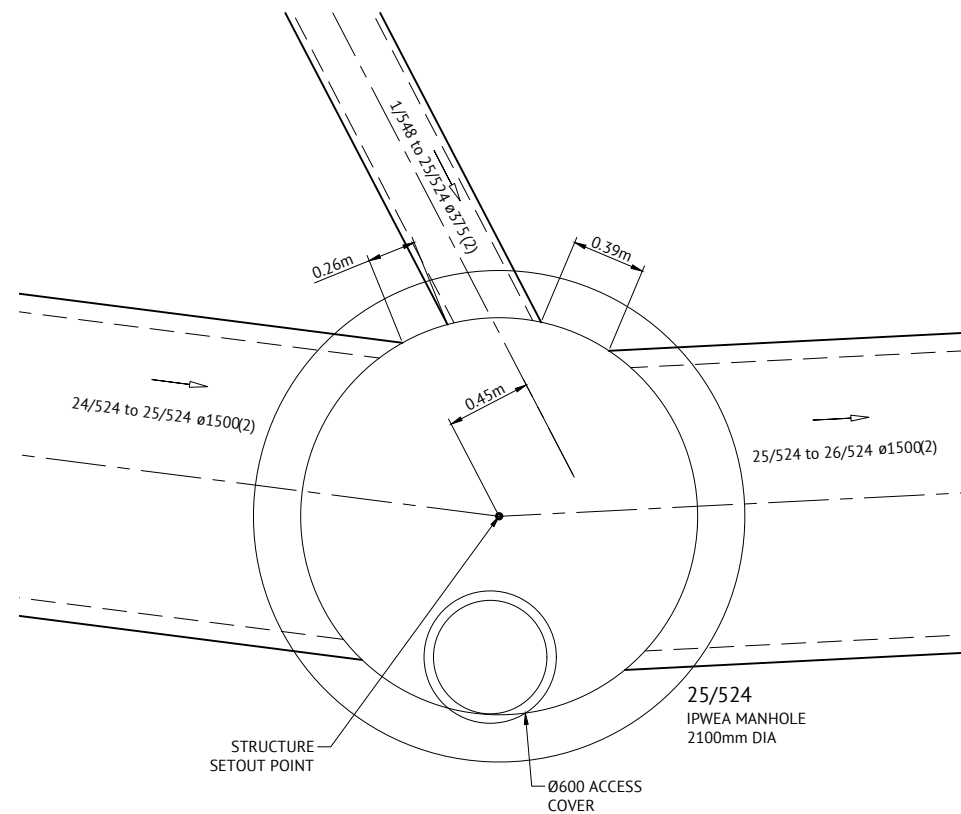
DESIGNED  
 B ADAMS  
 CHECKED  
 M MAJZNER  
 PROJECT MANAGER  
 R LLEWELYN  
 PROJECT DIRECTOR  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C431**  
 REV  
**A**

DATE	REV	DESCRIPTION	REC	APP
11/08/2020	A	APPROVAL ISSUE	MM	PB
	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP



**NOTE:**  
 MINIMUM 150mm PIPE TO PIPE CLEARANCE TO BE CONFIRMED ON SITE DURING CONSTRUCTION. NOTIFY PREMISE WITH FINAL CLEARANCE VALUES PRIOR TO COMPLETION OF MANHOLE CONSTRUCTION.

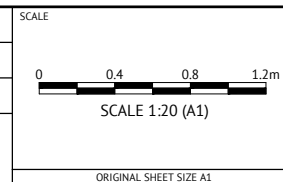
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
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**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
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DESIGNED  
B ADAMS  
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M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
*Pat Brady*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C432**  
 REV  
**A**



STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN							DRAIN DESIGN										HEADLOSSES										PART FULL			DESIGN LEVELS								
			tc	I	C	A	CA	Q	Q					Qg	Qb	tc	I	CA	Qp	L	S	VF=Q/A				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)	dn	Vn	Vn	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	mm/h	ha	L/s	L/s	m	%	mm		m/s	min								m	m/s	m/s	m	m	m	m	m	m	m							
13/524	14/524	1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													8.81	110	3.061	0	923	11.523	3.500	900	2	1.45	0.04	33 34	0.00	0.97	1.01	0.108	0.11	0.012				0.012	7.30	0.547	0.321	4.53	4.55	58.970	58.567	58.970	58.129	58.982	60.270	13/524
14/524	15/524	1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													8.73	110	3.963	0	1207	33.203	3.150	900	2	1.90	0.11	33 34	0.00	1.00	1.05	0.184	0.26	0.048				0.048	2.73	0.906	0.382	4.69	4.7	58.081	57.035	58.081	57.175	58.129	59.782	14/524
15/524	16/524	1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													8.84	110	3.963	0	1202	57.231	2.500	1200	2	1.06	0.17	42 46 43 47	0.00	0.75	1.13	0.058	1.93	0.111	2.62	0.151	2.51	1.436	0.359	4.23	4.23	57.064	55.633	57.064	55.628	57.215	58.262	15/524		
16/524	17/524	1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													9.01	109	4.127	0	1270	17.595	2.000	1200	2	1.12	0.06	33 34	0.00	1.00	1.01	0.064	0.23	0.014				0.014	1.20	0.211	0.392	3.96	3.97	55.613	55.261	55.613	55.402	55.628	57.393	16/524
17/524	18/524	1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													9.05	109	4.732	0	1434	30.363	2.000	1200	2	1.27	0.10	42 46 43 47	0.00	1.00	1.17	0.082	1.96	0.161	2.42	0.198	1.56	0.475	0.418	4.10	4.1	55.241	54.634	55.241	54.766	55.440	57.637	17/524		
18/524	19/524	1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													9.15	108	4.732	0	1429	60.369	2.000	1200	2	1.26	0.21	42 46 43 47	0.00	1.00	1.15	0.081	1.87	0.152	2.26	0.184	2.00	1.208	0.417	4.09	4.1	54.614	53.406	54.614	53.406	54.798	56.202	18/524		
19/524	20/524	1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													9.36	108	4.958	0	1488	14.455	2.500	1200	2	1.32	0.04	33 34	0.00	1.00	1.02	0.088	0.22	0.020				0.020	1.12	0.162	0.401	4.49	4.49	53.386	53.025	53.386	53.224	53.406	55.545	19/524
20/524	21/524	1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529													9.40	107	5.419	0	1621	71.643	2.600	1200	2	1.43	0.21	46 47	0.00	1.00	1.23	0.105	2.09	0.219	2.66	0.279	2.59	1.853	0.416	4.66	4.67	53.005	51.142	53.005	51.152	53.284	55.726	20/524		

**FOR CONSTRUCTION**



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

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

SCALE  
  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER CALCULATIONS 39% AEP STORM - SHEET 2**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C441**  
REV  
**A**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
			REC	APP

REVISIONS

STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	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		Op	L	S		VF=Q/A				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)	dn	Vn	Vn																
			min	mm/h		ha	ha	L/s	L/s	m	m	%	L/s	L/s	min	mm/h	ha	L/s	L/s	m	%	mm		m/s	min			m		m		m	%	m	m	m/s	m/s	m	m	m	m	m	m	m	m	m	m	m	m		
21/524	22/524	1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529										9.57	107	5.787	0	1710	24.792	2.500	1200	2	1.51	0.08	33 34				0.00	1.00	1.02	0.117	0.26	0.030						0.030	2.54	0.629	0.432	4.66	4.67	51.122	50.503	51.122	50.493	51.152	52.916	21/524	
22/524	23/524	1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529										9.63	106	5.987	0	1755	44.532	2.302	1350	2	1.23	0.13	42 46 43 47				0.00	0.93	1.11	0.077	1.53	0.118	1.86	0.143	2.30	1.026	0.427	4.52	4.52	50.375	49.350	50.375	49.349	50.518	51.951	22/524					
23/524	24/524	1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529										9.75	106	6.101	0	1791	34.236	1.600	1350	2	1.25	0.12	33 34				0.00	1.00	1.01	0.080	0.23	0.019						0.019	1.26	0.431	0.475	3.99	3.99	49.330	48.783	49.330	48.899	49.349	50.344	23/524	
24/524	25/524	1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529											9.89	105	9.527	0	2783	36.519	1.200	1500	2	1.57	0.14	34				0.00	1.00	1.02	0.127	0.29	0.037						0.037	1.17	0.428	0.622	4.02	4.03	48.862	48.424	48.862	48.434	48.899	49.865	24/524
25/524	26/524	1/548 1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529											10.11	105	9.644	0	2796	31.620	1.200	1500	2	1.58	0.12	33 34				0.00	1.00	1.02	0.128	0.23	0.030						0.030	1.15	0.364	0.623	4.03	4.03	48.404	48.024	48.404	48.040	48.434	49.513	25/524

**FOR CONSTRUCTION**



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SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER CALCULATIONS 39% AEP STORM - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C442**  
 REV  
**A**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION		

REVISIONS

STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN									DRAIN DESIGN										HEADLOSSES									PART FULL			DESIGN LEVELS						
			tc	I	C	A	CA	Q	Q <sub>g</sub>	Q <sub>b</sub>	tc	I	CA	Q <sub>p</sub>	L	S	VF=Q/A	STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn	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	ha	L/s	L/s	m	m	%	L/s	L/s	L/s	m	%	mm	m/s	min									m	m/s	m/s	m	m	m	m	m	m	m															
26/524	27/524	1/583 1/549 2/549 1/584 1/585 1/550 1/548 1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529										10.20	104	10.366	0	2998	25.499	1.200	1500	2	1.70	0.10	33	34	0.00	1.00	1.02	0.147	0.24	0.035	0.035	0.86	0.219	0.648	4.10	4.11	48.004	47.699	48.004	47.786	48.040	49.209	26/524							
27/524	28/524	1/551 1/552 1/583 1/549 2/549 1/584 1/585 1/550 1/548 1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529										10.30	104	10.498	0	3028	14.489	1.500	1500	2	1.71	0.05	34	37	0.00	1.00	1.07	0.150	0.71	0.107	0.107	5.05	0.573	0.612	4.46	4.47	47.679	47.461	47.679	46.946	47.786	49.094	27/524							
28/524																																					46.946	49.277	28/524											
1/531	13/524	1/531	8.00	113	0.75	0.253	0.190	59	85	2.455	0.070	4.95	307	66	18	1/562	8.00	113	0.190	0	66	6.654	3.043	450	2	0.42	0.04	32	1.00	1.19	0.009	9.70	0.086	0.086	6.33	0.401	0.111	2.16	2.04	59.410	59.207	59.410	58.982	59.496	60.366	1/531				
1/532	2/532	1/532	8.00	113	0.75	0.196	0.147	46	46	1.824	0.055	5.64	357	44	2	1/561	8.00	113	0.147	0	44	9.199	5.052	375	2	0.40	0.04	32	1.00	1.21	0.008	9.70	0.077	0.077	8.13	0.483	0.084	2.34	2.35	61.124	60.660	61.124	60.369	61.202	62.102	1/532				
2/532	3/532	1/560 1/532														8.04	113	0.328	0	94	68.603	3.020	525	2	0.43	0.33	42	46	43	47	0.00	1.00	1.03	0.010	1.62	0.015	1.81	0.017	3.00	2.058	0.126	2.36	2.36	60.332	58.260	60.332	58.275	60.350	61.734	2/532
3/532	14/524	1/561 1/562 1/560 1/532														8.35	112	0.722	0	237	15.447	2.000	750	2	0.54	0.07	37	42	43	0.00	1.00	1.02	0.015	0.98	0.014	1.01	0.015	0.85	0.131	0.197	2.57	2.54	58.260	57.951	58.260	58.129	58.275	59.632	3/532	
1/533	14/524	1/533	8.00	113	0.75	0.259	0.194	61	61	2.180	0.062	4.32	302	53	8	1/535	8.00	113	0.194	0	53	2.467	1.000	375	2	0.48	0.03	32	1.00	1.30	0.012	9.70	0.112	0.112	10.49	0.172	0.141	1.39	1.4	58.993	58.968	58.993	58.734	59.105	59.733	1/533				
1/534	16/524	1/534	8.00	113	0.75	0.045	0.033	10	10	5.473	0.011	0.67	4054	10	0	LOST	8.00	113	0.033	0	10	2.513	2.650	375	2	0.09	0.02	32	1.00	1.01	0.000	9.70	0.004	0.004	15.62	0.316	0.049	1.23	1.23	56.402	56.335	56.402	56.009	56.406	57.342	1/534				
1/535	16/524	1/535	8.00	113	0.75	0.175	0.131	41	67	0.019	0.67	208	67	0	1/534	8.00	113	0.131	0	67	5.425	1.500	375	2	0.61	0.05	32	1.00	1.49	0.019	9.70	0.183	0.183	5.76	0.181	0.144	1.72	1.73	56.602	56.521	56.602	56.290	56.785	57.342	1/535					
1/536	2/536	1/536	8.00	113	0.75	0.124	0.093	29	29	1.483	0.050	4.70	1372	29	0	3/536	8.00	113	0.093	0	29	24.768	5.020	375	2	0.26	0.12	32	1.00	1.09	0.004	9.70	0.034	0.034	5.45	1.353	0.069	2.08	2.08	60.543	59.300	60.543	59.187	60.577	61.575	1/536				
2/536	3/536	1/563 2/563 3/563 4/563 1/536 2/536	8.00	113	0.75	0.055	0.041	13	13	1.171	0.033	8.74	1194	13	0	1/537	8.12	113	0.280	0	88	33.851	5.636	375	2	0.79	0.15	37	42	43	0.14	1.00	1.15	0.032	1.57	0.050	1.71	0.055	5.14	1.741	0.117	2.98	2.99	59.137	57.229	59.137	57.396	59.191	60.186	2/536
3/536	17/524	1/563 2/563 3/563 4/563 1/536 2/536 3/536	8.00	113	0.75	0.344	0.257	81	81	2.581	0.066	6.43	425	63	18	1/535	8.00	113	0.534	0	150	14.131	5.013	375	2	1.36	0.07	34	37	0.42	1.00	1.50	0.094	2.00	0.187	0.187	6.51	0.457	0.161	3.31	3.32	57.209	56.500	57.209	56.286	57.396	58.211	3/536		
1/537	17/524	1/537	8.00	113	0.75	0.097	0.073	23	23	1.406	0.046	4.75	1175	23	0	1/539	8.00	113	0.073	0	23	12.976	1.410	375	2	0.21	0.12	32	1.00	1.06	0.002	9.70	0.021	0.021	3.63	0.398	0.084	1.23	1.24	57.141	56.958	57.141	56.667	57.162	58.027	1/537				
1/538	19/524	1/538	8.00	113	0.75	0.047	0.035	11	11	6.557	0.009	0.45	1262	11	0	1/544	8.00	113	0.035	0	11	2.490	3.000	375	2	0.10	0.02	32	1.00	1.01	0.001	9.70	0.005	0.005	16.09	0.314	0.049	1.31	1.31	54.755	54.680	54.755	54.354	54.760	55.495	1/538				
1/539	19/524	1/539	8.00	113	0.75	0.255	0.191	60	62	0.016	0.45	375	62	0	1/538	8.00	113	0.191	0	62	5.447	1.001	375	2	0.56	0.06	32	1.00	1.42	0.016	9.70	0.156	0.156	5.06	0.184	0.154	1.45	1.46	54.755	54.701	54.755	54.480	54.911	55.495	1/539					
3/540	20/524	1/564 2/564 3/564 4/564 1/540 2/540 3/540	8.00	113	0.75	0.192	0.144	45	45	2.704	0.050	6.51	134	43	2	1/539	8.13	112	0.395	0	121	14.042	6.011	375	2	1.10	0.06	34	37	0.35	1.00	1.29	0.061	1.80	0.110	0.110	7.70	0.575	0.136	3.34	3.35	55.295	54.451	55.295	54.212	55.406	56.310	3/540		
1/541	20/524	1/541	8.00	113	0.75	0.088	0.066	21	21	1.364	0.044	4.77	325	21	0	1/543	8.00	113	0.066	0	21	9.400	1.515	375	2	0.19	0.08	32	1.00	1.05	0.002	9.70	0.017	0.017	4.63	0.364	0.078	1.23	1.23	55.186	55.043	55.186	54.747	55.203	56.021	1/541				

**FOR CONSTRUCTION**



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**PAT BRADY** RPEQ 7112

SCALE  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER CALCULATIONS 39% AEP STORM - SHEET 4**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C443**  
REV  
**A**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA	APP
			REC	APP

REVISIONS

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN							DRAIN DESIGN										HEADLOSSES								PART FULL			DESIGN LEVELS								
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qc	tc	I	CA	Qp	L	S	Vf=Q/A	STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn	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	min	mm/h	ha	L/s	L/s	m	%	m		m	m	m	m	%	m	m	m	m/s	m/s	m	m	m	m	m	m												
3/542	21/524	1/542 2/542 3/542	8.00	113	0.75	0.077	0.058	18	18	0.032	28	18	0	1/544	8.23	112	0.173	0	54	9.149	2.875	375	2	0.49	0.06	33 34	0.33	1.00	1.05	0.012	1.63	0.020	0.020	5.79	0.329	0.108	2.04	2.05	52.121	51.858	52.121	51.591	52.141	53.237	3/542	
1/543	21/524	1/543	8.00	113	0.75	0.272	0.203	64	64	2.193	0.065	3.98	310	54	10	1/545	8.00	113	0.203	0	54	5.961	1.003	375	2	0.49	0.06	32	1.00	1.32	0.012	9.70	0.120	0.120	4.88	0.204	0.143	1.40	1.4	52.200	52.140	52.200	51.908	52.320	52.940	1/543
1/544	22/524	1/544	8.00	113	0.75	0.272	0.203	64	64	3.752	0.066	3.05	38	54	10	1/547	8.00	113	0.203	0	54	4.045	1.024	375	2	0.49	0.04	32	1.00	1.32	0.012	9.70	0.120	0.120	6.60	0.185	0.143	1.40	1.4	51.234	51.193	51.234	50.961	51.354	52.029	1/544
1/545	23/524	1/545	8.00	113	0.75	0.155	0.116	37	46	2.104	0.062	2.72	113	46	0	1/581	8.00	113	0.116	0	46	4.825	1.021	450	2	0.29	0.05	32	1.00	1.09	0.004	9.70	0.041	0.041	5.47	0.258	0.122	1.32	1.32	49.619	49.570	49.619	49.349	49.660	50.366	1/545
15/546	24/524	1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582																																												15/546
1/547	24/524	1/547	8.00	113	0.75	0.070	0.052	16	26	1.875	0.075	0.97	66	26	0	1/550	8.00	113	0.052	0	26	4.520	1.533	375	2	0.24	0.04	32	1.00	1.07	0.003	9.70	0.027	0.027	4.24	0.193	0.088	1.31	1.32	49.095	49.025	49.095	48.899	49.122	49.852	1/547
1/548	25/524	1/548	8.00	113	0.75	0.119	0.089	28	28	2.125	0.062	0.97	67	28	0	1/585	8.00	113	0.089	0	28	4.825	1.535	375	2	0.25	0.04	32	1.00	1.08	0.003	9.70	0.032	0.032	6.73	0.289	0.091	1.34	1.35	48.766	48.692	48.766	48.434	48.798	49.506	1/548
4/549	26/524	1/583 1/549 2/549 1/584 1/585																																											4/549	
1/550	26/524	1/550	8.00	113	0.75	0.049	0.037	11	11	1.260	0.060	0.97	66	11	0	1/551	8.00	113	0.037	0	11	4.631	2.531	375	2	0.10	0.03	32	1.00	1.01	0.001	9.70	0.005	0.005	8.59	0.387	0.052	1.24	1.24	48.443	48.325	48.443	48.040	48.448	49.201	1/550
1/551	27/524	1/551	8.00	113	0.75	0.031	0.024	7	7	0.000	0.29	375	7	0	LOST	8.00	113	0.024	0	7	4.286	3.716	375	2	0.07	0.02	32	1.00	1.01	0.000	9.70	0.002	0.002	11.20	0.418	0.039	1.23	1.24	48.284	48.125	48.284	47.788	48.286	49.041	1/551	
1/552	27/524	1/552	8.00	113	0.75	0.145	0.108	34	34	0.000	0.19	375	34	0	1/551	8.00	113	0.108	0	34	3.647	1.067	375	2	0.31	0.04	32	1.00	1.13	0.005	9.70	0.047	0.047	7.76	0.230	0.112	1.23	1.23	48.288	48.249	48.288	47.986	48.335	49.036	1/552	
1/560	2/532	1/560	8.00	113	0.75	0.243	0.182	57	57	2.011	0.058	5.64	347	50	7	1/562	8.00	113	0.182	0	50	2.626	2.024	375	2	0.45	0.02	32	1.00	1.27	0.011	9.70	0.102	0.102	11.81	0.166	0.114	1.76	1.76	60.995	60.942	60.995	60.681	61.097	61.735	1/560
1/561	3/532	1/561	8.00	113	0.75	0.313	0.234	74	76	3.721	0.097	0.43	97	71	5	1/520	8.00	113	0.234	0	71	5.675	3.008	450	2	0.45	0.03	32	1.00	1.22	0.010	9.70	0.099	0.099	8.88	0.267	0.115	2.21	2.21	58.838	58.668	58.838	58.333	58.937	59.586	1/561
1/562	3/532	1/562	8.00	113	0.75	0.214	0.160	50	75	0.026	0.43	375	75	0	1/561	8.00	113	0.160	0	75	3.115	3.117	450	2	0.47	0.02	32	1.00	1.25	0.011	9.70	0.111	0.111	13.23	0.183	0.119	2.24	2.17	58.840	58.743	58.840	58.412	58.951	59.588	1/562	
4/563	2/536	1/563 2/563 3/563 4/563	5.00	127	0.73	0.062	0.045	16	16	0.029	28	16	0	3/540	5.30	125	0.146	0	51	34.300	2.133	300	uPVC	0.72	0.24	37 42 43	0.31	0.75	1.16	0.027	1.56	0.041	1.79	0.048	1.99	0.681	0.114	2.07	2.08	59.868	59.137	59.868	59.187	59.916	60.800	4/563

**FOR CONSTRUCTION**

DD/MM/YYYY	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION		



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

DESIGNED	B ADAMS
CHECKED	M MAJZNER
PROJECT MANAGER	R LLEWELYN
PROJECT DIRECTOR	<i>[Signature]</i>
PAT BRADY	RPEQ 7112

SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT	MIRVAC GROUP
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 5

JOB CODE	MIR012-01
SHEET NUMBER	C444
REV	A


STRUCTURE NUMBER	LOCATION		TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN								HEADLOSSES									DESIGN LEVELS				RUNOFF													
	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qc	Qg	Qb	tc	I	CA	Qp	L	S	VF=Q/A	CHARTS USED	STRUCTURE RATIOS			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)	PART FULL		UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	DEPTH x VELOCITY PRODUCT	STRUCTURE NUMBER									
																				Qg/Qo	Du/Do	S/Do								dn	Vn																	
min	mm/h	ha	ha	L/s	L/s	%	L/s	L/s	mm/h	ha	L/s	L/s	mm/h	ha	L/s	L/s	m	%	mm	m/s	min						m	m	m	m	m	m	m	m	L/s	L/s	m <sup>2</sup> /s											
1/500	2/500	1/500	5.00	288	1.00	0.037	0.037	30	30	28	2	1/511	5.00	288	0.037	0	28	12.500	2.240	225	uPVC	0.70	0.10	32	1.00		1.88	0.025	5.34	0.135	0.135	0.28	0.035	0.092	1.82	67.947	67.667	68.010	67.975	68.145	68.700	30				1/500		
2/500	3/500	1/500 2/500	5.00	288	1.00	0.038	0.038	30	30	28	2	1/511	5.10	287	0.075	0	56	12.500	2.239	225	uPVC	1.40	0.10	33	0.50	1.00	2.45	0.100	1.51	0.151	0.151	1.10	0.138	0.139	2.16	67.647	67.368	67.824	67.686	67.975	68.450	30				2/500		
3/500	4/500	1/500 2/500 3/500	5.00	288	1.00	0.037	0.037	30	30	28	2	1/511	5.21	285	0.112	0	83	10.000	6.191	225	uPVC	2.09	0.05	33	0.33	1.00	2.50	0.223	1.16	0.258	0.258	2.45	0.245	0.130	3.51	67.348	66.729	67.428	67.182	67.686	68.150	30				3/500		
4/500	5/500	1/500 2/500 3/500 4/500	5.00	288	1.00	0.030	0.030	24	24	24	0	1/511	5.26	285	0.142	0	107	12.500	4.500	300	uPVC	1.51	0.06	33	0.22	0.75	2.49	0.116	0.000	0.000	0.000	0.87	0.109	0.139	3.32	66.729	66.166	67.182	67.074	67.182	67.850	24				4/500		
5/500	6/500	1/500 2/500 3/500 4/500 5/500	5.00	288	1.00	0.038	0.038	30	30	28	2	LOST	5.22	285	0.179	0	134	14.000	1.000	300	uPVC	1.90	0.14	33	0.21	1.00	4.09	0.183	0.72	0.131	0.131	1.37	0.192	0.300	1.90	66.146	66.006	66.942	66.750	67.074	67.150	30				5/500		
6/500	7/500	1/500 2/500 3/500 4/500 5/500 6/500	5.00	288	1.00	0.042	0.042	34	34	-22	56	LOST	5.36	283	0.221	0	111	10.000	0.600	300	uPVC	1.56	0.13	33	0.00	1.00	3.49	0.125	0.20	0.025	0.025	0.93	0.093	0.300	1.56	65.986	65.926	66.708	66.615	66.733	66.750	34				6/500		
7/500	8/500	1/500 2/500 3/500 4/500 5/500 6/500 7/500	5.00	288	1.00	0.030	0.030	24	24	24	0	LOST	5.49	282	0.251	0	133	2.000	0.600	300	uPVC	1.88	0.03	33	0.18	1.00	3.36	0.180	0.68	0.122	0.122	1.35	0.027	0.300	1.88	65.906	65.894	66.492	66.465	66.615	66.750	24				7/500		
8/500	9/500	1/500 2/500 3/500 4/500 5/500 6/500 7/500	0.00	0		0.000	0.000	0	0	0	0	LOST	5.52	281	0.251	0	133	28.000	1.800	375	uPVC	1.20	0.19	46 47	0.00	0.80	2.61	0.074	1.68	0.124	2.11	0.156	0.41	0.115	0.182	2.49	65.894	65.390	66.342	66.227	66.497	66.750	0				8/500	
9/500	10/500	1/500 2/500 3/500 4/500 5/500 6/500 7/500											5.70	279	0.251	0	131	5.694	1.722	375	2	1.19	0.05	34 37	0.00	1.00	3.39	0.072	0.55	0.039	0.039	0.56	0.032	0.203	2.14	65.330	65.231	66.188	66.155	66.227	66.515					9/500		
10/500	11/500	1/500 2/500 3/500 4/500 5/500 6/500 7/500 10/500	5.00	288	1.00	0.087	0.087	69	69	1.27	-114	184	LOST	5.65	280	0.336	0	14	7.935	2.500	525	2	0.07	0.04	34 37	0.00	0.71	2.75	0.000	0.00	0.000	0.000	0.00	0.052	1.26	65.233	65.035	66.155	66.155	66.155	66.155	1968	69	0.06		10/500		
11/500	3/001	1/501 1/500 2/500 3/500 4/500 5/500 6/500 7/500 10/500 11/500	8.00	252	1.00	0.148	0.148	104	192	1.27	12	180	LOST	8.21	250	0.778	0	112	44.406	0.303	525	2	0.52	0.68	33 34	0.08	1.00	3.27	0.014	0.48	0.007	0.007	0.07	0.030	0.255	1.08	64.963	64.829	66.148	66.118	66.155	66.155	1968	192	0.10		11/500	
3/001																																															3/001	
1/501	11/500	1/501	8.00	252	1.00	0.291	0.291	204	204	6.11	115	88	11/500	8.00	252	0.291	0	115	40.208	3.958	375	2	1.04	0.21	32	1.00		1.82	0.055	5.58	0.309	0.309	1.00	0.400	0.148	2.83	66.555	64.963	66.555	66.155	66.864	67.676	1631	204	0.15		1/501	
7/502	8/502	1/518 1/519 1/516 1/517 1/513 2/506 3/506 1/514 1/515 1/507 1/503 1/502 2/502 3/502 4/502 1/504 1/505 1/508 2/508 1/509	9.76	235	4.074	0	900	29.835	1.800	600	2	3.18	0.17	33 34	0.00	1.00	2.11	0.517	0.26	0.134	0.134	2.15	0.641	0.600	3.18	64.870	64.333	65.402	64.762	65.536	66.083														7/502			
8/502	9/502	1/510 1/518 1/519 1/516 1/517 1/513 2/506 3/506 1/514 1/515 1/507 1/503 1/502 2/502 3/502 4/502 1/504 1/505 1/508 2/508 1/509	9.93	234	4.103	0	883	51.469	2.509	600	2	3.12	0.25	33	0.00	1.00	1.75	0.498	0.20	0.100	0.100	2.07	1.064	0.448	3.90	64.313	63.022	64.662	63.598	64.762	65.358														8/502			
9/502	10/502	1/511 1/512 1/510 1/518 1/519 1/516 1/517 1/513 2/506 3/506 1/514 1/515 1/507 1/503 1/502 2/502 3/502 4/502 1/504 1/505 1/508 2/508 1/509	10.18	232	4.323	0	705	60.368	1.868	750	2	1.60	0.29	34 37	0.00	1.00	1.77	0.130	0.53	0.069	0.069	0.40	0.242	0.359	3.38	63.022	61.894	63.529	63.287	63.598	64.112														9/502			
10/502	9/009	1/511 1/512 1/510 1/518 1/519 1/516 1/517 1/513 2/506 3/506 1/514 1/515 1/507 1/503 1/502 2/502 3/502 4/502 1/504 1/505 1/508 2/508 1/509	10.47	229	4.323	0	677	29.761	1.912	750	2	1.53	0.14	33 34																																10/502		
9/009																																																9/009
1/510	8/502	1/510	8.00	252	1.00	0.029	0.029	20	1017	2.43	2	1016	1/511	8.00	252	0.029	0	2	5.755	3.727	375	2	0.01	0.03	32	1.00		1.40	0.000	9.70	0.000	0.000	0.00	0.018	0.77	64.612	64.398	64.762	64.762	64.762	65.352	1867	1017	0.35		1/510		
1/511	9/502	1/511	8.00	252	1.00	0.183	0.183	128	364	2.36	-143	507	LOST	8.00	252	0.183	0	515	5.480	1.000	375	2	4.66	0.06	32				1.109	0.00	0.000	0.000	8.62	0.472	0.375	4.66	63.331	63.276	64.070	63.598	64.070	64.071	1867	364	0.17		1/511	
1/512	9/502	1/512	8.00	252	1.00	0.037	0.037	26	26	2.36	2	25	2/521	8.00	252	0.037	0	2	2.494	3.107	375	2	0.01	0.01	32	1.00		1.71	0.000	8.55	0.000	0.000	0.00	0.019	0.72	63.331	63.253	63.598	63.598	63.598	64.071	1867	26	0.04		1/512		
1/520	2/520	1/520	8.00	252	1.00	0.053	0.053	37	695	5.63	-124	819	3/521	8.00	252	0.053	0	519	8.842	2.527	375	2	4.70	0.06	32				1.125	0.00	0.000	0.000	0.000	2.52	0.224	0.375	4.70	56.136	55.913	56.136	55.911	56.136	56.876	1656	695	0.30		1/520
2/520	3/520	1/520 2/520	8.00	252	1.00	0.068	0.068	48	728	5.03	206	522	LOST	8.06	251	0.121	0	82	10.927	4.005	375	2	0.74	0.06	42 46 43 47	0.28	1.00	1.18	0.028	2.05	0.057	2.42	0.068	1.61	0.176	0.123	2.59	55.592	55.154	55.592	55.416	55.660	56.675	1656	728	0.31		2/520
3/520	4/520	1/522 1/521 2/521 3/521 1/520 2/520	8.47	247	1.170	0	473	28.980	2.446	525	2	2.19	0.16	37 42 43	0.00	1.00	1.80	0.244	1.37	0.334	1.44	0.351	1.21	0.350	0.325	3.37	55.010	54.301	55.082	54.732	55.433	56.223														3/520		
4/520	6/024	1/522 1/521 2/521 3/521 1/520 2/520	8.62	246	1.170	0	468	33.694	1.438	750	2	1.06	0.19	33	0.00	0.70	1.43	0.057	0.00	0.000	0.000	0.000	0.18	0.060	0.307	2.76	54.301	53.817	54.732	54.672	54.732	55.332														4/520		
6/024																																															6/024	
1/521	2/521	1/521	8.00	252	1.00	0.218	0.218	153	153	5.69	101	51	1/522	8.00	252	0.218	0	101	11.628	3.833	375	2	0.92	0.06	32	1.00		1.89	0.043	7.61	0.326	0.326	0.33	0.040	0.140	2.68	59.061	58.615	59.067	59.028	59.594	60.042	1631	153	0.12		1/521	
2/521	3/521	1/521 2/521	8.00	252	1.00	0.264	0.264	185	209	5.69	124	85	3/521	8.06	251	0.482	0	225	63.262																													



LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN								HEADLOSSES										PART FULL		DESIGN LEVELS							RUNOFF						
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q		Qg	Qb	tc	I	CA	Qp	L	S		Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn															
			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				m		m	m	m	%	m	m	m/s	m	m	m	m	m	m	L/s	L/s	m <sup>2</sup> /s				
13/524	14/524	1/524 2/524 3/524 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	8.72	245		4.074	0	1838	11.523	3.500	900	2	2.89	0.04	33	34				0.00	0.97	1.07	0.426	0.14	0.061	0.061	2.72	0.313	0.473	5.43	58.970	58.567	58.970	58.657	59.031	60.270									13/524		
14/524	15/524	1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	8.73	245		5.295	0	2674	33.203	3.150	900	2	4.20	0.11	34	37				0.00	1.00	1.64	0.901	0.34	0.306	0.306	2.18	0.724	0.627	5.65	58.081	57.035	58.350	57.627	58.657	59.782									14/524		
15/524	16/524	1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	8.84	244		5.295	0	2658	57.231	2.500	1200	2	2.35	0.17	42	46	43	47			0.00	0.75	1.63	0.282	1.88	0.530	2.57	0.723	0.46	0.266	0.551	5.25	57.064	55.633	57.096	56.830	57.820	58.262									15/524
16/524	17/524	1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	9.01	242		5.514	0	2968	17.595	2.000	1200	2	2.62	0.06	33	34				0.00	1.00	2.01	0.351	0.24	0.084	0.084	0.58	0.102	0.627	4.97	55.613	55.261	56.746	56.644	56.830	57.393									16/524		
17/524	18/524	1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	9.05	242		6.328	0	3323	30.363	2.000	1200	2	2.94	0.10	42	46	43	47			0.00	1.00	2.25	0.440	1.78	0.786	2.01	0.883	0.73	0.220	0.672	5.10	55.241	54.634	55.859	55.638	56.742	57.637									17/524
18/524	19/524	1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	9.15	241		6.328	0	3306	60.369	2.000	1200	2	2.92	0.21	42	46	43	47			0.00	1.00	1.96	0.436	1.78	0.777	2.08	0.907	0.72	0.434	0.670	5.09	54.614	53.406	54.861	54.427	55.768	56.202									18/524
19/524	20/524	1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	9.36	239		6.630	0	3558	14.455	2.500	1200	2	3.15	0.04	33	34				0.00	1.00	1.87	0.505	0.23	0.117	0.117	0.83	0.120	0.654	5.65	53.386	53.025	54.311	54.190	54.427	55.545									19/524		
20/524	21/524	1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529	9.36	239		7.239	0	3885	71.643	2.600	1200	2	3.43	0.21	46	47				0.00	1.00	2.15	0.602	1.97	1.185	2.30	1.385	2.16	1.549	0.682	5.85	53.005	51.142	53.005	51.457	54.390	55.726									20/524	

<b>FOR CONSTRUCTION</b>			
11/08/2020	A	APPROVAL ISSUE	MM PB
	1	PRELIMINARY - NOT FOR CONSTRUCTION	BA APP
DATE	REV	DESCRIPTION	REC APP

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 BRISBANE OFFICE  
 LEVEL 1, 100 BRUNSWICK STREET  
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 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
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DESIGNED  
B ADAMS  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
  
 PAT BRADY RPEQ 7112

SCALE  
 ORIGINAL SHEET SIZE A1


CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER CALCULATIONS 1% AEP STORM - SHEET 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C446**  
 REV  
**A**

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN										HEADLOSSES								PART FULL		DESIGN LEVELS								RUNOFF														
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q		Qg	Qb		tc	I	CA	Qp	L	S		Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn																								
			min	mm/h		ha	ha	L/s	L/s	%	L/s	L/s		min	mm/h	ha	L/s	L/s	m	%	mm	m/s	min	Qg/Qo	Du/Do	S/Do	m		m	m	m	%	m	m	m/s	m	m	m	m	m	m	m	m	m	m	m	m	L/s	L/s	m <sup>2</sup> /s							
21/524	22/524	1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529											9.56	237	7.737	0	4029	24.792	2.500	1200	2	3.56	0.08	33	34	0.00	1.00	1.28	0.648	0.25	0.164	0.164	1.07	0.265	0.707	5.81	51.122	50.503	51.293	51.028	51.457	52.916												21/524			
22/524	23/524	1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529											9.63	236	8.009	0	4151	44.532	2.302	1350	2	2.90	0.13	42	46	43	47	0.00	0.93	1.58	0.429	1.52	0.653	1.83	0.786	1.14	0.507	0.685	5.69	50.375	49.350	50.375	49.868	51.162	51.951												22/524
23/524	24/524	1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529						2.58					9.75	235	8.161	0	4238	34.236	1.600	1350	2	2.96	0.12	33	34	0.00	1.00	1.40	0.447	0.24	0.105	0.105	0.63	0.216	0.775	4.98	49.330	48.783	49.763	49.547	49.868	50.344												23/524			
24/524	25/524	1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529							0.97				9.87	234	12.735	0	6201	36.519	1.200	1500	2	3.51	0.14	34		0.00	1.00	1.46	0.628	0.27	0.169	0.169	0.77	0.281	1.016	4.87	48.862	48.424	49.379	49.098	49.547	49.865												24/524			
25/524	26/524	1/548 1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582 1/547 1/545 1/544 1/542 2/542 3/542 1/543 1/564 2/564 3/564 4/564 1/540 2/540 3/540 1/541 1/538 1/539 1/563 2/563 3/563 4/563 1/536 2/536 3/536 1/537 1/534 1/535 1/561 1/562 1/560 1/532 1/533 1/531 1/527 1/525 1/524 2/524 3/524 1/526 4/524 5/524 6/524 9/524 1/530 1/559 1/557 1/558 1/528 2/528 3/528 1/556 1/529 2/529 3/529							0.97				10.08	232	12.887	0	6268	31.620	1.200	1500	2	3.55	0.12	33	34	0.00	1.00	1.46	0.642	0.23	0.151	0.151	0.79	0.248	1.024	4.88	48.404	48.024	48.947	48.699	49.098	49.513													25/524		

<b>FOR CONSTRUCTION</b>		11/08/2020 DD/MM/YYYY		A	APPROVAL ISSUE	MM	PB
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REVISIONS							


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DESIGNED  
**B ADAMS**  
 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**R LLEWELYN**  
 PROJECT DIRECTOR  
  
**PAT BRADY** RPEQ 7112

SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER CALCULATIONS 1% AEP STORM - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C447**  
 REV  
**A**



LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN							HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF										
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q		tc	Qg	Qb		I	CA	Qp	L	S		Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	UPSTREAM OBVERT LEVEL		DOWNSTREAM OBVERT LEVEL		SURFACE OR GRATE LEVEL		MAJOR SURFACE FLOW CAPACITY		MAJOR SURFACE FLOW DEPTH x VELOCITY PRODUCT		STRUCTURE NUMBER					
			min	mm/h		ha	ha	L/s	L/s	%	L/s	L/s		min	mm/h	ha	L/s	L/s	m	%	mm	m/s	min	Qg/Qo	Du/Do	S/Do	m		m	m	%	m	m	m	m/s	m	m	m	m	m	m	L/s	L/s	m <sup>2</sup> /s					
15/546	24/524	1/580 1/578 2/578 1/579 1/577 1/575 1/576 1/573 1/574 1/589 1/590 1/587 1/588 1/586 1/569 2/569 3/569 1/570 1/571 1/572 1/567 1/568 1/565 1/566 1/546 1/581 1/582	8.00	252	1.00	0.070	0.070	49	178	0.97	86	92		1/550	8.00	252	0.070	0	86	4.522	1.533	375	2	0.78	0.04	32		0.00	1.00	1.90	0.248	0.62	0.154		0.154	0.49	0.044	0.514	4.53	48.795	48.606	49.591	49.547	49.702	49.852	1548	178	0.12	1/547
1/547	24/524	1/547	8.00	252	1.00	0.070	0.070	49	178	0.97	86	92	1/550	8.00	252	0.070	0	86	4.520	1.533	375	2	0.78	0.04	32		1.00		2.62	0.031	4.64	0.143		0.143	0.24	0.011	0.165	1.84	49.095	49.025	49.559	49.547	49.702	49.852	1548	178	0.12	1/547	
1/548	25/524	1/548	8.00	252	1.00	0.119	0.119	84	531	0.97	116	415	1/585	8.00	252	0.119	0	116	4.825	1.535	375	2	1.05	0.04	32		1.00		2.64	0.057	4.60	0.260		0.260	0.44	0.022	0.197	1.98	48.766	48.692	49.120	49.098	49.380	49.506	1548	531	0.22	1/548	
4/549	26/524	1/583 1/549 2/549 1/584 1/585												8.26	249	0.924	0	376	6.330	2.000	450	2	2.36	0.04	34		0.00	1.00	3.12	0.285	0.27	0.077		0.077	1.74	0.110	0.344	2.88	47.929	47.803	48.809	48.699	48.886	49.051				4/549	
1/550	26/524	1/550	8.00	252	1.00	0.049	0.049	34	126	0.97	100	26	1/551	8.00	252	0.049	0	100	4.631	2.531	375	2	0.90	0.03	32		1.00		2.34	0.042	5.56	0.232		0.232	0.32	0.015	0.156	2.31	48.443	48.325	48.714	48.699	48.946	49.201	1548	126	0.10	1/550	
1/551	27/524	1/551	8.00	252	1.00	0.031	0.031	22	691	0.29	207	484	LOST	8.00	252	0.031	0	207	4.286	3.716	375	2	1.88	0.02	32		1.00		3.02	0.180	3.78	0.680		0.680	1.40	0.062	0.214	3.18	48.284	48.125	48.360	48.298	49.040	49.041	1264	691		1/551	
1/552	27/524	1/552	8.00	252	1.00	0.145	0.145	101	850	0.19	207	643	1/551	8.00	252	0.145	0	207	3.647	1.067	375	2	1.87	0.04	32		1.00		2.99	0.179	3.81	0.683		0.683	1.39	0.054	0.375	1.87	48.288	48.249	48.353	48.298	49.035	49.036	1264	850		1/552	
1/560	2/532	1/560	8.00	252	1.00	0.243	0.243	170	429	5.64	47	382	1/562	8.00	252	0.243	0	214	2.626	2.024	375	2	1.94	0.02	32		1.00		2.97	0.192	3.86	0.740		0.740	5.99	0.025	0.269	2.53	60.995	60.942	60.995	60.836	61.735	61.735	1631	429	0.22	1/560	
1/561	3/532	1/561	8.00	252	1.00	0.313	0.313	219	1513	0.43	175	1338	1/520	8.00	252	0.313	0	175	5.675	3.008	450	2	1.10	0.03	32		1.00		1.98	0.062	7.12	0.440		0.440	0.40	0.023	0.185	2.84	58.838	58.668	58.838	58.816	59.278	59.586	1264	1513	0.34	1/561	
1/562	3/532	1/562	8.00	252	1.00	0.214	0.214	150	1256	0.43	237	1019	1/561	8.00	252	0.214	0	237	3.115	3.117	450	2	1.49	0.02	32		1.00		2.37	0.113	5.45	0.616		0.616	0.76	0.025	0.219	3.07	58.840	58.743	58.840	58.816	59.456	59.588	1264	1256		1/562	
4/563	2/536	1/563 2/563 3/563 4/563	5.00	288	1.00	0.062	0.062	50	50		28	22	3/540	5.30	284	0.200	0	110	34.300	2.133	300	uPVC	1.55	0.24	37	42	43	0.25	0.75	1.68	0.123	1.37	0.169	1.65	0.203	1.40	0.479	0.178	2.52	59.868	59.137	59.868	59.389	60.071	60.800	1264	50		4/563

**FOR CONSTRUCTION**

11/08/2020	A	APPROVAL ISSUE			MM	PB
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 PROJECT DIRECTOR  
  
**PAT BRADY** RPEQ 7112

SCALE  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER CALCULATIONS 1% AEP STORM - SHEET 5**

JOB CODE	<b>MIR012-01</b>	
SHEET NUMBER	<b>C449</b>	REV <b>A</b>

**GENERAL:**

- G.1. CONSTRUCTION METHODS ARE THE RESPONSIBILITY OF THE BUILDER. DETAILS SHOWN ARE A GUIDE AND ALTERNATE DETAILS MAY BE SUBMITTED FOR ENGINEERING APPROVAL, PRIOR TO WORKS COMMENCING.
- G.2. MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION.
- G.3. DO NOT OVERSTRESS ANY PART OF THE MEMBERS DURING FABRICATION, TRANSPORTATION OR ERECTION.
- G.4. PROPRIETARY ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND DESIGN DETAILS.
- G.5. IT IS THE RESPONSIBILITY OF THE BUILDER TO MAKE GOOD ANY DAMAGE CAUSED TO ADJOINING STRUCTURES OR ELEMENTS CREATED DURING CONSTRUCTION.

**SERVICE LOADS:**

- SL.1. STRUCTURAL WORK HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
  - PERMANENT DEAD LOAD OF STRUCTURE AS SHOWN ON DRAWINGS
  - LIVE LOADS TO AS5100.1 80 kN (W80 WHEEL LOAD)
  - IMPOSED SURCHARGE LOAD ON GROUND: 20 kPa
  - SOIL DENSITY: 22 kN/m³ (HEIGHT OF SOIL OVER ROOF SLAB = 0.3m MAX. UNO)
  - AT REST LATERAL EARTH PRESSURE COEFFICIENT ko: 0.531
- SL.2. THE ABOVE DO NOT INCLUDE LOADS WHICH MAY BE APPLIED DURING CONSTRUCTION.

**SITE PREPARATION AND FOUNDATIONS:**

- P.1. THE IN-SITU SOIL PARAMETERS USED FOR DESIGN ARE INFERRED FROM THE RESULTS IN THE GEOTECHNICAL INVESTIGATION REPORT No. DL15-121 PREPARED BY MORISON GEOTECHNIC DATED 30/04/2015.
- P.2. GEOTECHNICAL ENGINEER SHALL BE ENGAGED, AT THE BUILDER'S EXPENSE, TO CERTIFY THE GEOTECHNICAL PARAMETERS USED FOR DESIGN OF PITS STIPULATED IN NOTE SL1. ON THIS DRAWINGS HAVE BEEN ACHIEVED. GEOTECHNICAL ENGINEER'S CERTIFICATE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF ANY BLINDING OR REINFORCEMENT.
- P.3. EARTHWORKS SHALL BE IN ACCORDANCE WITH AS 3798 INCLUDING THE FOLLOWING.
- P.4. THE BUILDING SITE SHALL BE STRIPPED OF ALL VEGETABLE MATTER AND THE ASSOCIATED LAYER OF TOPSOIL.
- P.5. FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE BEARING CAPACITY OF 100 kPa. IT IS THE RESPONSIBILITY OF THE BUILDER TO DETERMINE FINAL BEARING PRESSURE ON SITE, UPON EXCAVATION.
- P.6. THE TOP 150mm OF SUBGRADE (UNDER FOUNDATIONS, FOOTINGS AND SLABS) SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH METHOD 5.1.1 OF AS 1289 (STANDARD COMPACTION).
- P.7. FILL MATERIAL SHALL BE SAND FILL OR OTHER APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 150mm IN THICKNESS. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS PER ABOVE. FOR COHESIONLESS FILL WITH LESS THAN 5% PASSING THE 75 MICRON SIEVE, THE MATERIAL SHALL BE COMPACTED TO 70% DENSITY INDEX IN ACCORDANCE WITH AS 1289 TEST E6.1.
- P.8. TO AVOID SWELLING OF FOUNDATIONS AND SLAB MOVEMENTS, THE AREA AROUND THE SLAB SHALL BE EFFECTIVELY DRAINED, BOTH BEFORE AND AFTER CONSTRUCTION, TO ENSURE NO PONDING OF WATER ON OR ADJACENT TO THE SLAB AREA. SPOON DRAINS SHALL BE PROVIDED AS REQUIRED TO FACILITATE DRAINAGE ADJACENT TO THE SLAB AND AT THE TOPS OF BANKS.
- P.9. ALL SLABS SHALL BE CAST ON A MINIMUM THICKNESS OF 50mm OF BEDDING SAND.

**CONCRETE**

- C.1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS1379, AS1478, AS2870, AS3600, AND AS3610.
- C.2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

CONCRETE SCHEDULE					
ELEMENT	EXPOSURE CLASSIFICATION	CLASS & GRADE	CLEAR COVER TO REINF'T	MAX. AGG. SIZE (mm)	MAX. SLUMP (mm)
STORMWATER PIT WALLS	B1	N32	40	20	80
STORMWATER PIT BASE	B1	N32	45	20	80
STORMWATER PIT ROOF SLAB	B1	N40	30	20	80

- C.3. DO NOT ADD WATER TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT.
- C.4. ALL ADMIXTURES TO COMPLY WITH AS1478 AND MUST NOT REDUCE STRENGTH OF CONCRETE. ALL ADMIXTURES TO BE USED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. CONCRETE ADDITIVES SHALL NOT PROMOTE CORROSION OF REINFORCEMENT. DO NOT USE ADMIXTURES WITHOUT PRIOR APPROVAL FROM SUPERINTENDENT.
- C.5. DESIGN OF FORMWORK IS THE CONTRACTORS RESPONSIBILITY. DESIGN TO ALLOW FOR DIMENSIONAL CHANGES AND DEFLECTIONS RESULTING FROM IMPOSED ACTIONS, CONCRETE SHRINKAGE AND CREEP, TEMPERATURE CHANGES, AND THE APPLICATION OF PRESTRESSING FORCES (IF ANY).
- C.6. DO NOT USE FORMWORK HARDWARE THAT FORMS A COMPLETE HOLE THROUGH CONCRETE ELEMENTS. DO NOT USE REINFORCEMENT TO SUPPORT FORMWORK.
- C.7. EXPOSED EDGES AND RE-ENRANT CORNERS TO BE CONSTRUCTED WITH 25mm x 45° CHAMFER UNO.
- C.8. DO NOT MAKE PENETRATIONS, RECESSES, OR EMBED PIPES (OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS) WITHOUT PRIOR APPROVAL OF SUPERINTENDENT.
- C.9. ACHIEVE MINIMUM COVER ON ALL EMBEDDED REINFORCEMENT, LIGATURES, TIES, CONDUITS, AND PIPES.
- C.10. USE PLACEMENT METHODS THAT WILL MINIMUM SETTLEMENT AND PLASTIC SHRINKAGE CRACKING. MAINTAIN A NOMINALLY VERTICAL AND PLASTIC CONCRETE EDGE DURING PLACEMENT.
- C.11. USE IMMERSION AND SCREED VIBRATORS ACCOMPANIED BY HAND METHODS AS APPROPRIATE TO REMOVED ENTRAPPED AIR TO FULLY COMPACT THE MIX. DO NOT ALLOW VIBRATORS TO CONTACT SET CONCRETE, REINFORCEMENT OR ITEMS INCLUDING PIPES AND CONDUITS EMBEDDED IN CONCRETE. AVOID CAUSING SEGREGATION BY OVER-VIBRATION.
- C.12. CURING OF ALL CONCRETE MUST BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS UNO IN ACCORDANCE WITH AS3600. APPROVED SPRAY-ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAYBE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED. POLYTHENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM THE WIND AND TRAFFIC. CURING MUST COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT.
- C.13. DO NOT STRIP FORMWORK PRIOR TO 48 HOURS AFTER PLACEMENT.

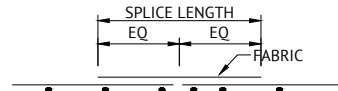
**REINFORCEMENT**

- R.1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS:
  - R: DENOTES STRUCTURAL GRADE 250 PLAIN ROUND BAR AS4671
  - N: DENOTES HOT ROLLED GRADE 500 DEFORMED BAR DUCTILITY CLASS N TO AS4671.
  - L: DENOTES HARD DRAWN WIRE GRADE 500 SQUARE REINFORCING MESH DUCTILITY CLASS L TO AS4671.
  - L: DENOTES HARD DRAWN WIRE GRADE 500 RECTANGULAR REINFORCING MESH DUCTILITY CLASS L TO AS4671
  - SL: DENOTES HARD DRAWN WIRE GRADE 500 SQUARE REINFORCING MESH DUCTILITY CLASS L TO AS4671
  - TM: DENOTES HARD DRAWN WIRE GRADE 500 TRENCH MESH DUCTILITY CLASS L TO AS4671
- R.2. ALL N BARS TO BE GRADE 500.
- R.3. FOLLOWING ABBREVIATIONS APPLY TO LOCATION OF REINFORCEMENT
  - EW: EACH WAY
  - FF: FAR FACE
  - BB: BOTTOM BOTTOM (LAID FIRST)
  - EF: EACH FACE
  - B: BOTTOM
  - TT: TOP TOP (LAID LAST)
  - NF: NEAR FACE
  - T: TOP
  - CP: CENTRALLY PLACED
- R.4. CLEAR COVER TO REINFORCEMENT SHALL BE PROVIDED BY APPROVED CHAIRS, SPACERS OR TIES AS REQUIRED TO PROVIDE ADEQUATE SUPPORT AS FOLLOWS:
  - BARS 16mm AND LESS AND FABRIC - 1000mm CENTRES
  - BARS 20mm AND OVER - 1200mm CENTRES.
- R.5. USE MESH SUPPLIED IN FLAT SHEETS UNLESS APPROVED OTHERWISE.
- R.6. WELDING AND BENDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY ENGINEER.
- R.7. LAP LENGTHS TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT > 150mm CENTRES WITH THE FOLLOWING UNO - REFER TO TABLE BELOW:

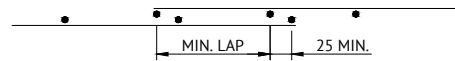
REINFORCEMENT LAP TABLE						
LOCATION	F'c	BAR SIZE AND LAP LENGTH (mm)				
		N12	N16	N20	N24	N28
HORIZONTAL BARS WITH < 300mm CONCRETE BELOW	25	525	800	1000	1300	1600
	32	475	700	875	1175	1400
	40+	450	625	775	1050	1250
HORIZONTAL BARS WITH ≥ 300mm CONCRETE BELOW BAR, & VERTICAL BARS	25	700	1050	1300	1700	2050
	32	625	925	1175	1525	1850
	40+	575	825	1000	1350	1650

**REINFORCEMENT NOMINATIONS**

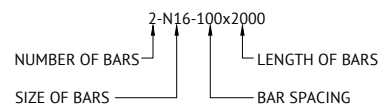
- RN.1. SPLICE REINFORCEMENT ONLY AT LOCATIONS SHOWN ON DRAWINGS OR AS APPROVED BY SUPERINTENDENT. LAP LENGTH TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT > 150mm CENTRES WITH THE FOLLOWING UNO:



- RN.2. PROVIDE MINIMUM MESH LAPS TO CROSS WIRES OF REINFORCING MESH, SO THAT TWO OUTERMOST WIRES OF ONE SHEET OVERLAP TWO OUTERMOST WIRES OF ADJACENT SHEET BY AT LEAST 25mm, THUS:



- RN.3. NOMINATION CALL OUT DESCRIPTION:



**INSPECTION AND CERTIFICATION REQUIREMENTS**

- IC.1. FOR FINAL ENGINEERING CERTIFICATION TO BE PROVIDED BY PREMISE, ALL THE APPLICABLE STRUCTURAL ELEMENTS SHALL BE INSPECTED BY A PREMISE REPRESENTATIVE. TYPICAL HOLD POINTS:
  - CONCRETE PIT SLAB / WALLS
  - ALL CONCRETE ELEMENTS MUST BE INSPECTED AFTER PLACEMENT OF REINFORCEMENT AND PRIOR TO CONCRETE POUR.
- IC.2. ALL INSPECTIONS REQUIRE A MINIMUM 24 HOUR NOTICE.
- IC.3. IF IN DOUBT OF REQUIREMENT OF INSPECTION, ASK.
- IC.4. OBTAIN GEOTECHNICAL ENGINEER'S WRITTEN INSTRUCTION AT PREPARATION OF FOUNDING MATERIAL AND FORWARD TO STRUCTURAL ENGINEER FOR APPROVAL, AT BUILDER'S COST.
- IC.5. FOR FINAL ENGINEERING CERTIFICATION TO BE PROVIDED BY PREMISE, THE FOLLOWING MUST BE PROVIDED:
  - DOCUMENTARY EVIDENCE OF SLUMP TEST RESULTS (AT LEAST ONE SAMPLE TO BE FROM EACH BATCH. SLUMP TO BE MEASURED ON SITE, AT THE POINT OF DISCHARGE FROM THE AGITATOR).
  - FOR CAST IN-SITU CONCRETE ELEMENTS 28 DAY COMPRESSIVE STRENGTH TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. SAMPLES TO BE COLLECTED EQUALLY SPREAD THROUGHOUT THE POUR. AT LEAST 2 SAMPLES SHALL BE TAKEN PER DAY. EACH SAMPLE TO COMPRISE OF TWO CYLINDERS.
  - FOR PRECAST CONCRETE ELEMENTS 3, 7, 14, AND 28 DAY COMPRESSIVE STRENGTH TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. SAMPLES TO BE COLLECTED EQUALLY SPREAD THROUGHOUT THE POUR. AT LEAST 4 SHALL BE TAKEN PER DAY. EACH SAMPLE TO COMPRISE OF TWO CYLINDERS.
  - FOR ALL CONCRETE ELEMENTS 56 DAY DRYING SHRINKAGE TEST RESULTS PRODUCED BY A NATA REGISTERED LABORATORY. AT LEAST 3 DRYING SHRINKAGE SAMPLES TO BE COLLECTED FROM EACH MIX DESIGN EVERY THREE MONTHS. BASE ASSESSMENT ON AVERAGE OF THREE TEST RESULTS.
  - DOCUMENTARY EVIDENCE TO SHOW REINFORCEMENT SUPPLIER AND MILL COMPLIES WITH AS/NZS4671
  - TESTING TO BE PERFORMED BY AN INDEPENDENT NATA ACCREDITED AUTHORITY.
- IC.6. INSPECTIONS UNDERTAKEN BY SUPERINTENDENT OR OTHERS DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATION.

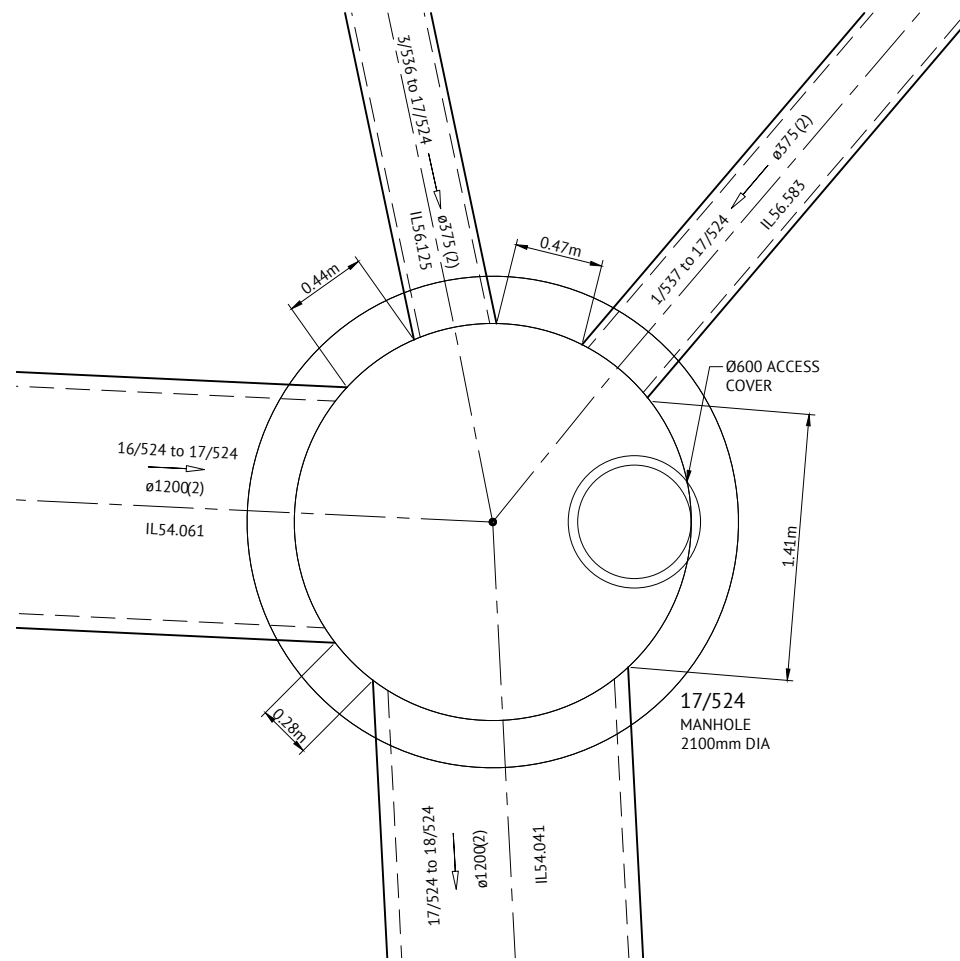
STRUCTURAL DETAILS APPROVED  
  
 BRIONY HOOPER RPEQ 10854

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
11/08/2020	A	APPROVAL ISSUE	
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	

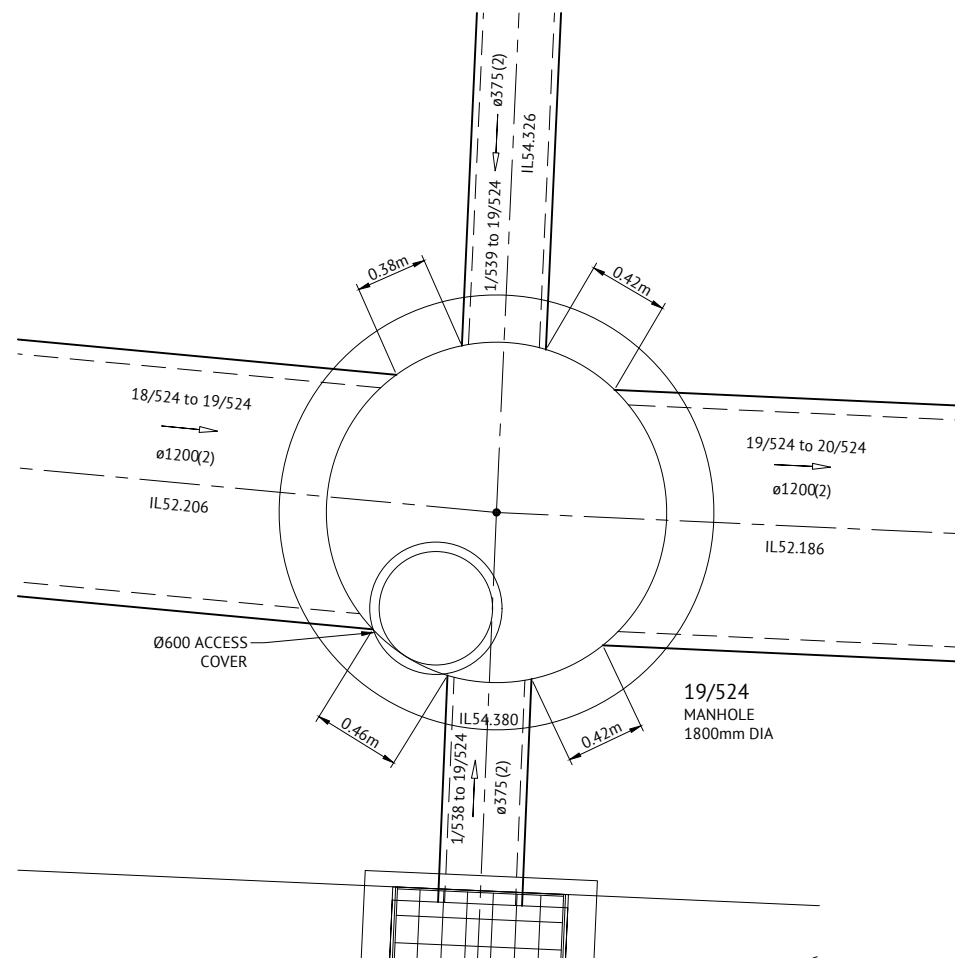
**Premise**  
**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED L WALTON	SCALE
CHECKED M MAJZNER	
PROJECT MANAGER R LLEWELYN	
PROJECT DIRECTOR 	
PAT BRADY RPEQ 7112	

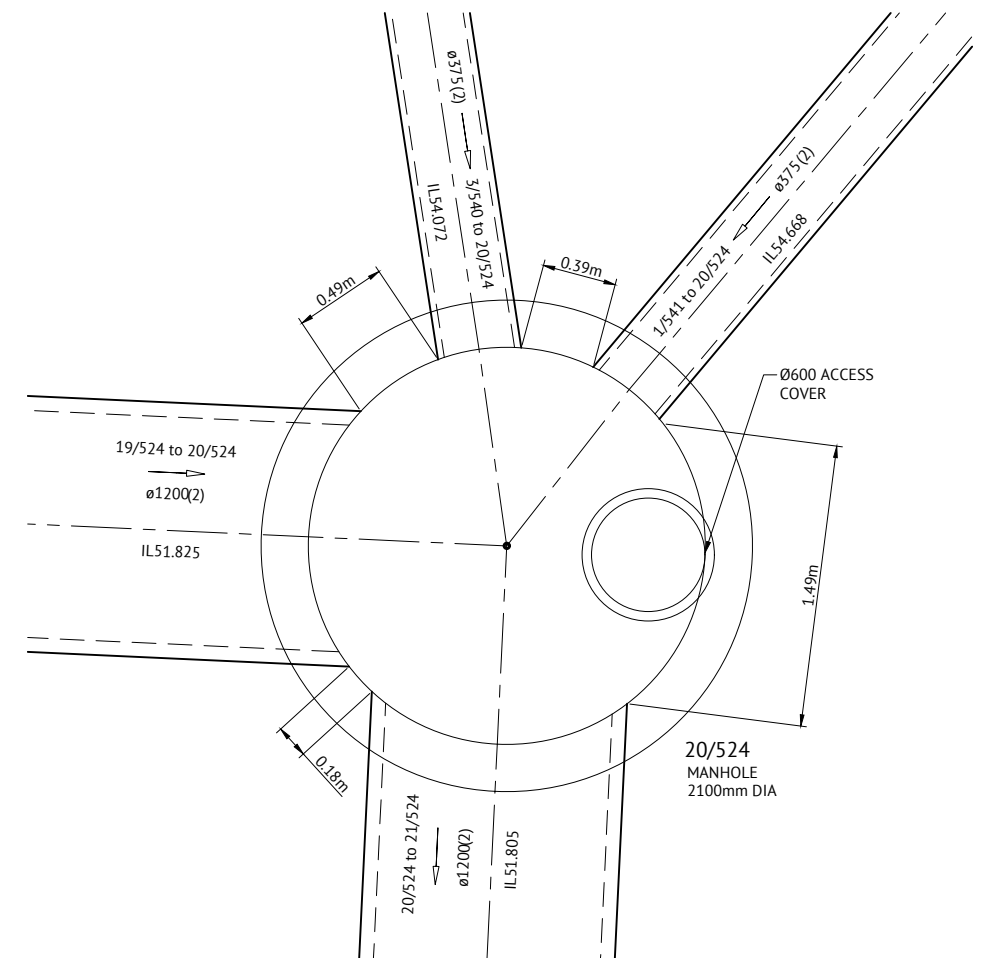
CLIENT	MIRVAC GROUP	JOB CODE	MIR012-01
PROJECT	EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C450
LOCATION	TEVIOT ROAD, GREENBANK	REV	A
SHEET TITLE	STORMWATER STRUCTURE NOTES	ORIGINAL SHEET SIZE A1	



**STORMWATER STRUCTURE 17/524**  
**GREATER THAN 3m DEPTH**  
 SCALE 1:20



**STORMWATER STRUCTURE 19/524**  
**GREATER THAN 3m DEPTH**  
 SCALE 1:20



**STORMWATER STRUCTURE 20/524**  
**GREATER THAN 3m DEPTH**  
 SCALE 1:20

STRUCTURAL DETAILS APPROVED  
*B. Hooper*  
 BRIONY HOOPER RPEQ 10854

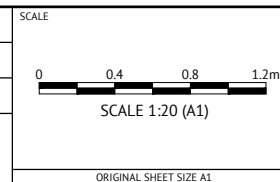
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
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DESIGNED  
 B ADAMS  
 CHECKED  
 M MAJZNER  
 PROJECT MANAGER  
 R LLEWELYN  
 PROJECT DIRECTOR  
*Pat Brady*  
 PAT BRADY RPEQ 7112



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER STRUCTURE PLAN VIEW**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C451**  
 REV  
**A**

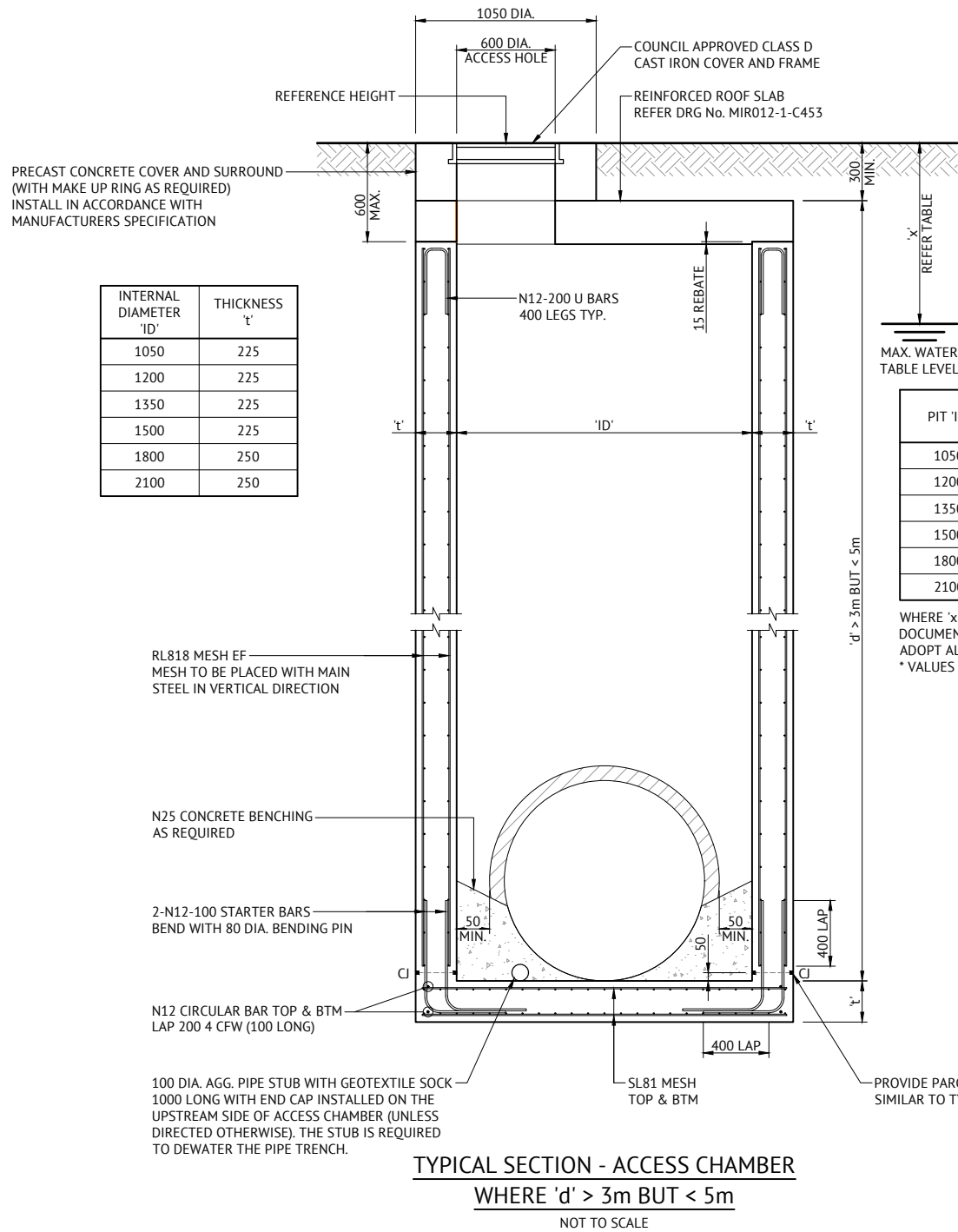
**NOTES**

- FOR STRUCTURAL NOTES REFER TO DRAWING No. M1012-1-C450
- REFER CIVIL DRAWINGS FOR REFERENCE HEIGHT, SETTING OUT REFERENCE POINT, SIZE AND HEIGHT OF CULVERTS.
- PRECAST UNITS MAY BE USED AND INSTALLED TO THE MANUFACTURER'S DETAILS, PROVIDED THEY CONFORM TO AS3600 AND AUSTRALIAN BRIDGE DESIGN CODE.
- LIFTING ANCHORS TO BE "SWIFTLIFT" OR APPROVED EQUIVALENT, GALVANISED TO AS/NZS4680 AND FITTED TO MANUFACTURER'S SPECIFICATIONS.
  - PIT 1050 TO 1800 ID WALL 1.3 TONNE (75 MIN. EMBEDMENT)
  - PIT 2100 ID WALL 2.5 TONNE (90 MIN. EMBEDMENT)
- COVERS AND FRAMES SHALL COMPLY WITH THE REQUIREMENTS OF AS3996 CLASS D DESIGN LOAD. APPROVED COVERS AND FRAMES ARE TO BE USED.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- ALL WELDS SHALL BE E48XX SP 6mm CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AS1554.1 UNO.
- REFER TO DRAWING No. C453 FOR REINFORCED ROOF SLAB DETAILS

**MINIMUM LIFTING REQUIREMENTS**

- LIFTING AND PLACEMENT OF PRECAST ROOF SHALL NOT OCCUR UNTIL MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF 25MPa IS ACHIEVED. THE CONTRACTOR SHALL DEMONSTRATE THAT THE DESIGN CHARACTERISTIC COMPRESSIVE STRENGTH HAS BEEN ACHIEVED VIA NATA APPROVED TESTING WHICH IS TO BE SUBMITTED TO PREMISE FOR APPROVAL PRIOR TO LIFTING.
- MAXIMUM HOISTING SPEED DURING LIFT 1.5 m/s
- MAXIMUM ACCELERATION AND DECELERATION DURING LIFTING 0.5 m/s/s

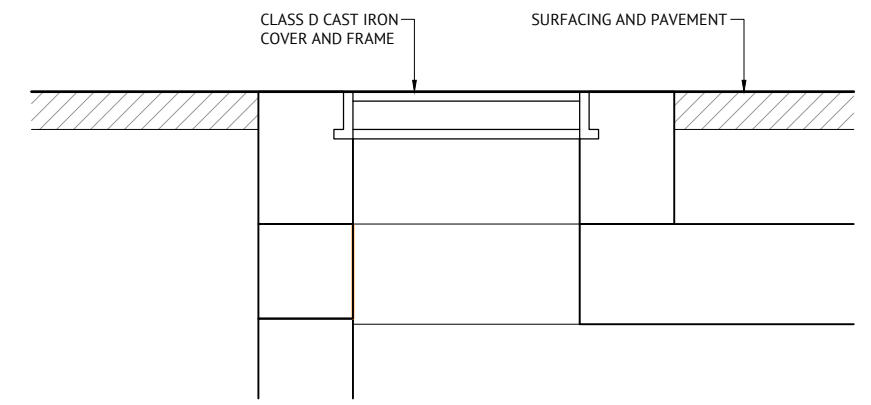
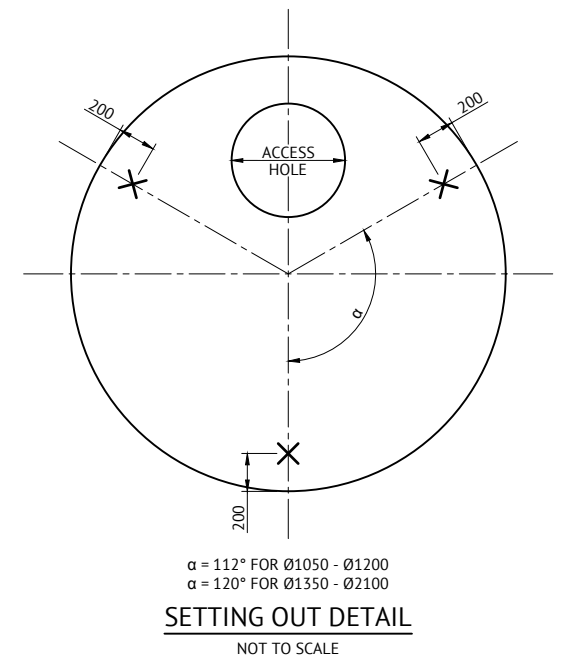
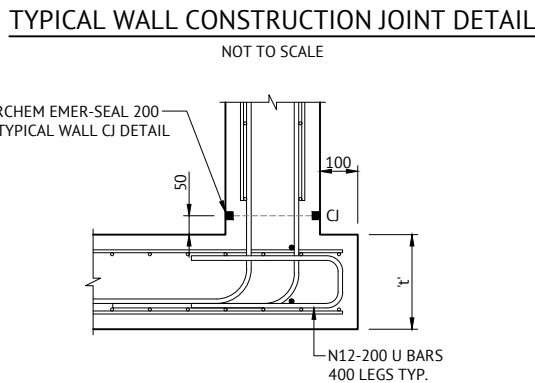
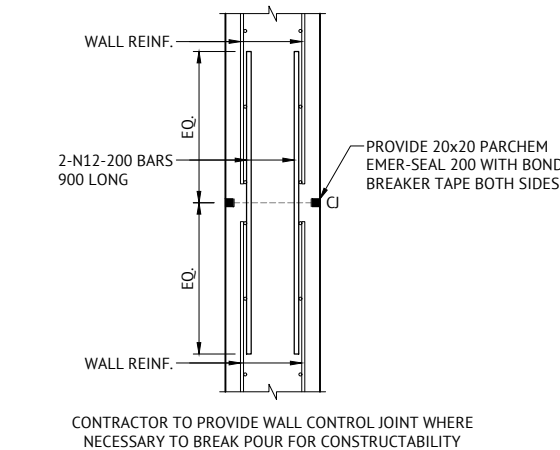
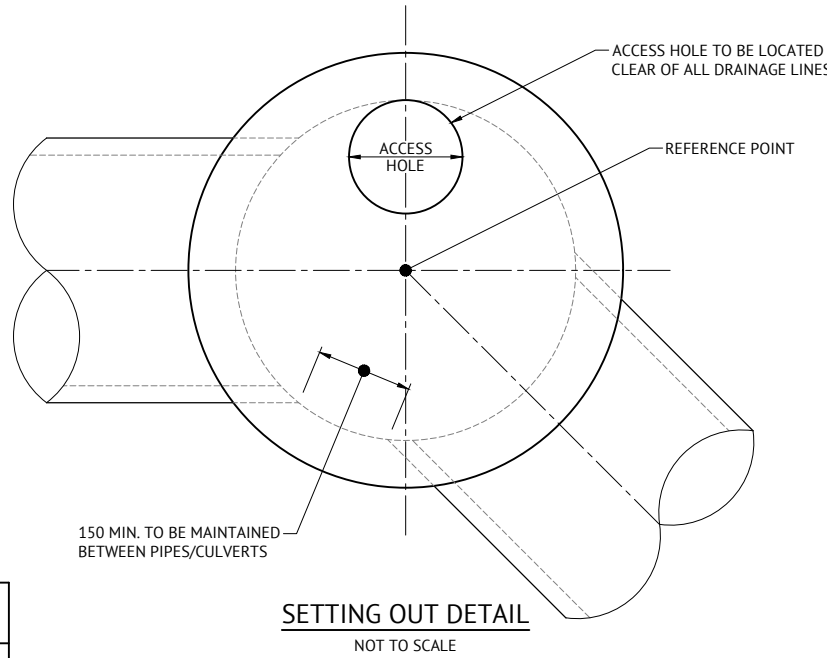
PIT MARK	DIMENSIONS			MIN 'x' * DIMENSION
	PIT INTERNAL DIAMETER 'ID'	WALL THICKNESS 't'	BASE THICKNESS 't'	
17/524	2100	250	250	1100
19/524	1800	250	250	750
20/524	2100	250	250	1100



INTERNAL DIAMETER 'ID'	THICKNESS 't'
1050	225
1200	225
1350	225
1500	225
1800	250
2100	250

PIT 'ID'	MIN. 'x' * DIMENSION
1050	0
1200	0
1350	0
1500	600
1800	750
2100	1100

WHERE 'x' DIMENSION IS LESS THAN DOCUMENTED IN TABLE CONTRACTOR IS TO ADOPT ALTERNATIVE BASE SLAB TOE DETAIL \* VALUES ARE BASED ON A 5.4m INVERT DEPTH



STRUCTURAL DETAILS APPROVED  
B. Hooper  
BRIONY HOOPER RPEQ 10854

**FOR CONSTRUCTION**

DD/MM/YYYY	REV	DESCRIPTION	MM	PB
11/08/2020	A	APPROVAL ISSUE		
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DESIGNED  
**L WALTON**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*[Signature]*  
**PAT BRADY** RPEQ 7112

SCALE  
ORIGINAL SHEET SIZE A1

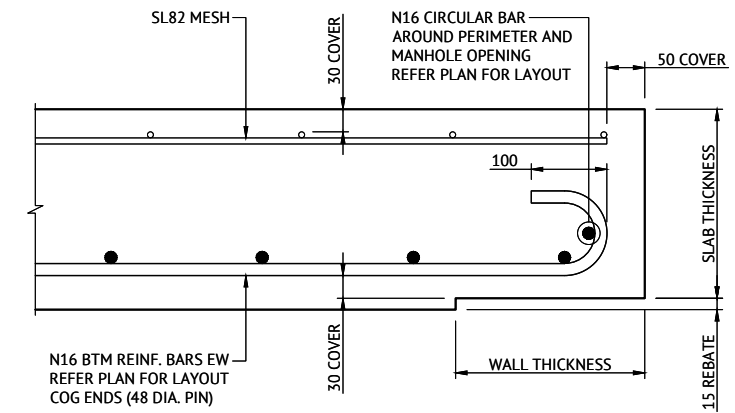
CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER STRUCTURE CIRCULAR PIT BASE & WALLS**

JOB CODE  
**M1012-01**  
SHEET NUMBER  
**C452**  
REV  
**A**

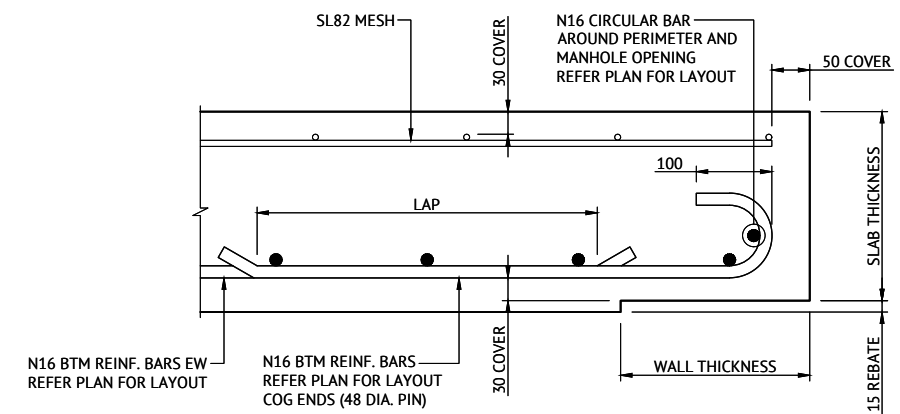
STORMWATER PIT SCHEDULE FOR STORMWATER PITS GREATER THAN 3m DEPTH		
PIT MARK	DIMENSIONS	
	PIT INTERNAL DIAMETER 'ID'	SLAB THICKNESS 't'
17/524	2100	250
19/524	1800	250
20/524	2100	250

**NOTES**

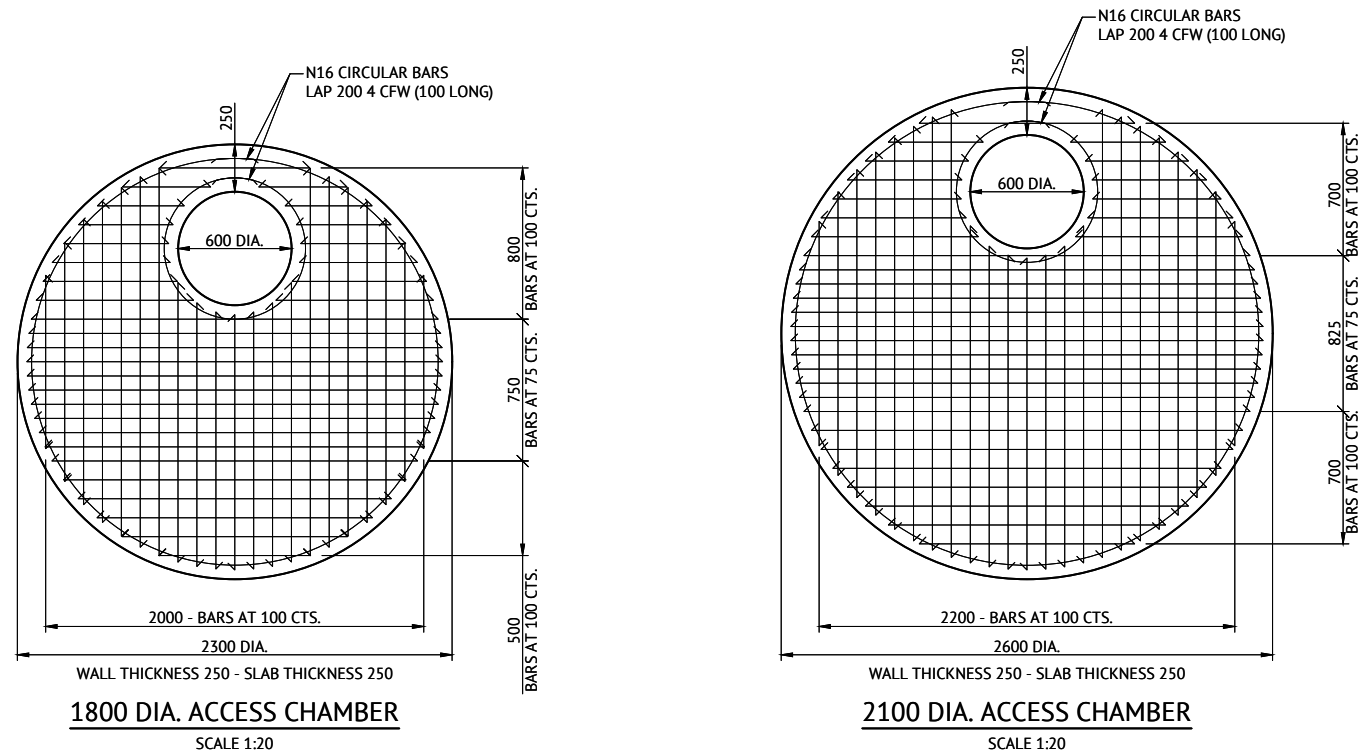
- FOR STRUCTURAL NOTES REFER TO DRAWING No. MIR012-1-C450
- ROOF SLAB THICKNESS DOES NOT INCLUDE 15mm REBATE. REFER TYPICAL PART SECTION FOR DETAILS.
- FOR LIFTING ANCHOR LOCATIONS AND DETAILS REFER TO DRG No. MIR012-1-C452
- BOTTOM REINFORCEMENT ONLY SHOWN ON PLANS. TOP REINFORCEMENT TO BE SL82 MESH AS DETAILED IN TYPICAL PART SECTION.
- DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
- ALL WELDS SHALL BE E48XX SP 6mm CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AS1554.1 UNO.
- REFER TO DRAWING No. C452 FOR REINFORCED PIT DETAILS



**TYPICAL PART SECTION**  
SCALE 1:5



**ALTERNATIVE PART SECTION**  
SCALE 1:5



**PIT ROOF DETAILS FOR PITS GREATER THAN 3m DEEP**

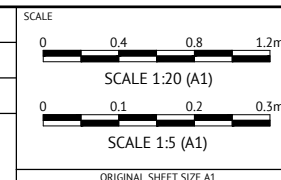
STRUCTURAL DETAILS APPROVED  
*B. Hooper*  
BRIONY HOOPER RPEQ 10854

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PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*Pat Brady*  
**PAT BRADY RPEQ 7112**



CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER STRUCTURE CIRCULAR PIT ROOF**

JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C453**  
REV  
**A**

DATE	REV	DESCRIPTION	MM	PB
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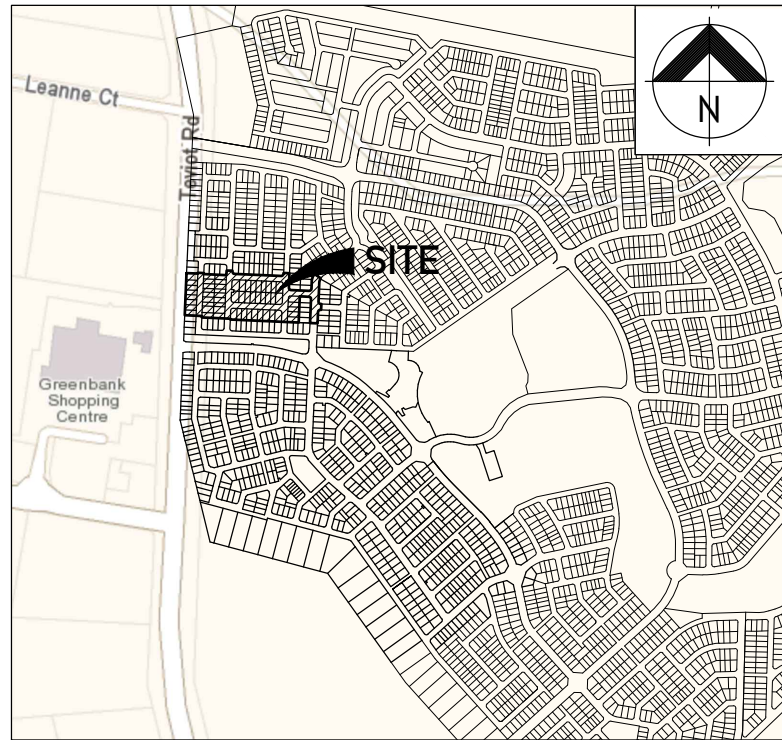


# EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT

## TEVIOT ROAD, GREENBANK

### FOR MIRVAC GROUP

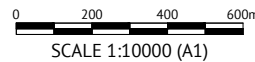
#### SEWERAGE RETICULATION



### LOCALITY PLAN

#### REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844  
 LOT 9 on S312355



#### 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.
24. CCTV OF SEWER TO BE UNDERTAKEN AND SUPPLIED TO SUPERINTENDENT PRIOR TO, BUT NO GREATER THAN 2 WEEKS BEFORE, THE ON-SITE INSPECTION FOR OFF MAINTENANCE.

#### VEGETATION PROTECTION

- 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 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.
- 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.

#### TRENCH SPOIL NOTE:

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

#### EXCAVATION IN ROCK NOTE:

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

Sheet List Table	
Sheet Number	Sheet Title
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C512	SEWERAGE LAYOUT PLAN - SHEET 3
C520	SEWERAGE LONG SECTIONS - SHEET 1
C521	SEWERAGE LONG SECTIONS - SHEET 2
C522	SEWERAGE LONG SECTIONS - SHEET 3
C523	SEWERAGE LONG SECTIONS - SHEET 4
C524	SEWERAGE LONG SECTIONS - SHEET 5
C530	SEWERAGE NOTES AND DETAILS

NAME OF ESTATE		EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT	
SUBDIVIDER		Mirvac Group	
APPLICATION No.		DEV 2018/999	
SP DELEGATE APPROVAL DATE		16/04/2019	
COUNCIL DA APPROVAL No.		-	
DRAWING/PLAN No.		-	
No. OF ALLOTMENTS		58	
AREA ha		3.83	
LENGTH OF SEWERS	DN150 uPVC SN8	1876m	
	DN225 uPVC SN8	36m	

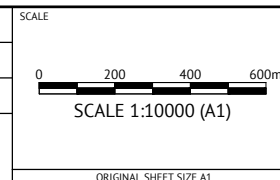
### FOR CONSTRUCTION

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



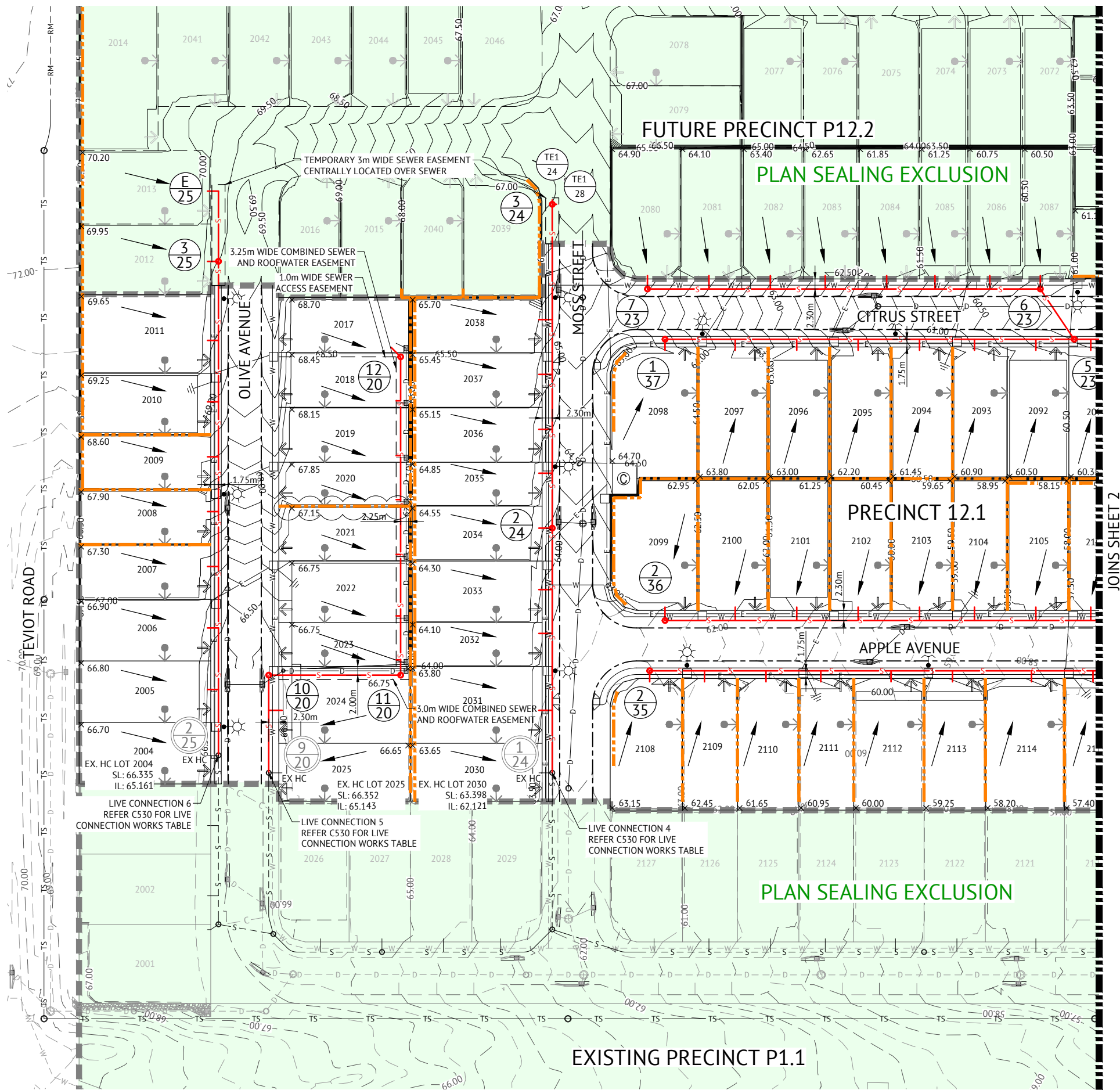
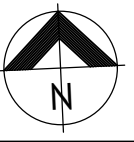
**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

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



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LOCALITY PLAN & NOTES**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C500**  
 REV  
**A**



**LEGEND - PROPOSED**

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 1.2m OFFSET TO BDY OR 7.5m WHERE ZERO LOT LINE EXISTS (U.N.O.).
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- 38** LOT NUMBER
- TRUNK SEWER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY

**LEGEND - EXISTING**

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

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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

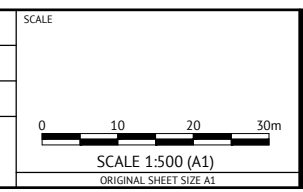
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
15/12/2020	C	ADDED RETAINING WALL	KK PB
11/08/20	B	TEMPORARY SEWER EASEMENTS TO SEWER ALIGNMENT OUTSIDE OF PRECINCT BOUNDARY	KK PB
27/07/20	A	ORIGINAL ISSUE	AL PB
			REC APP



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DESIGNED  
**A LANGDON**  
 CHECKED  
**M MAJZNER**  
 PROJECT MANAGER  
**C THORP**  
 PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



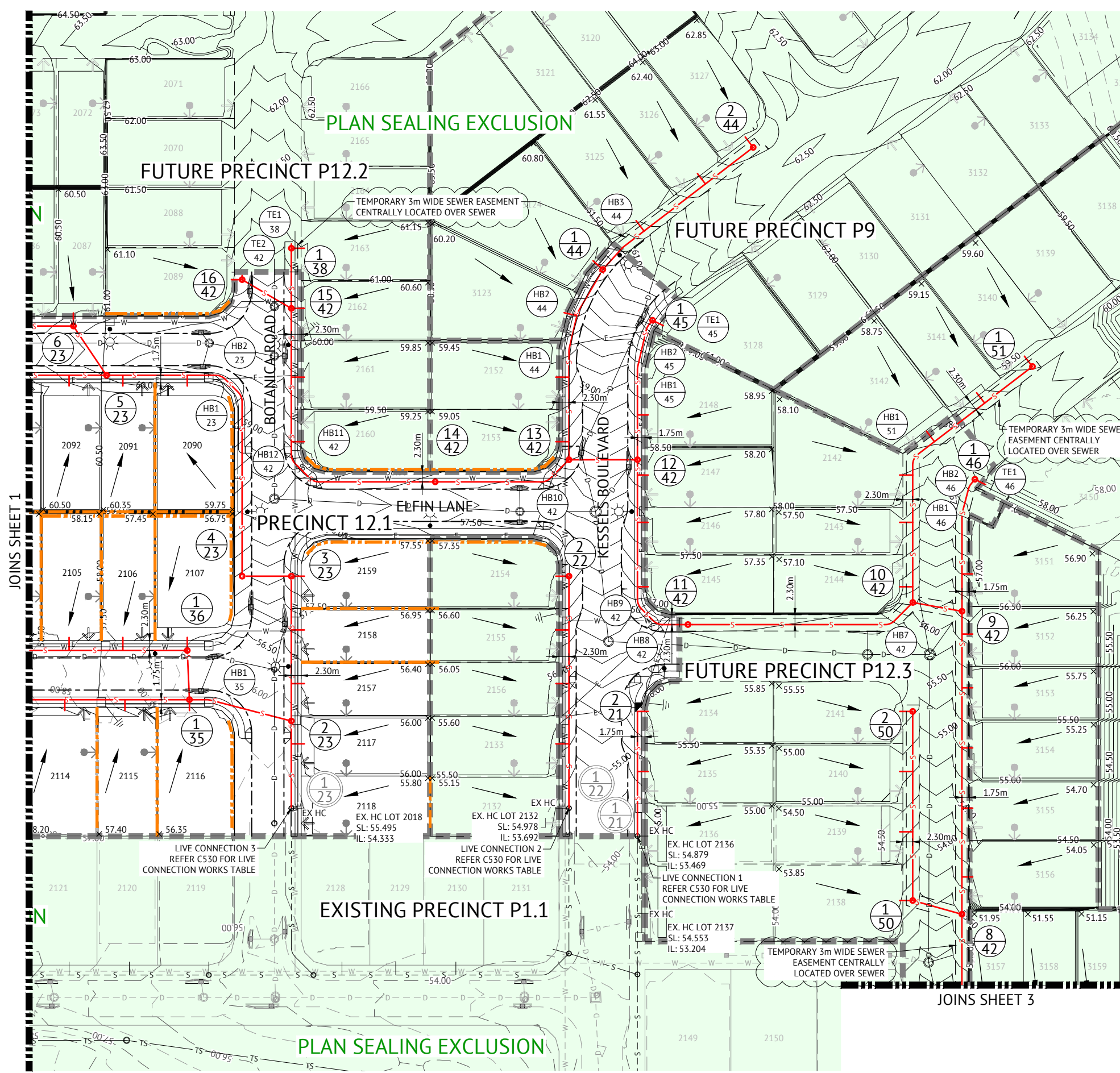
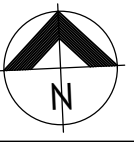
CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 1**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C510</b>	REV <b>C</b>



**LEGEND - PROPOSED**

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 1.2m OFFSET TO BDY OR 7.5m WHERE ZERO LOT LINE EXISTS (U.N.O.).
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- 38** LOT NUMBER
- TRUNK SEWER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY

**LEGEND - EXISTING**

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

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FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	KK	PB
11/08/20	B	TEMPORARY SEWER EASEMENTS TO SEWER ALIGNMENT OUTSIDE OF PRECINCT BOUNDARY	KK	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB
			REC	APP

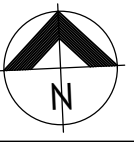
**Premise**  
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R LLEWELYN  
 PROJECT DIRECTOR  
PAT BRADY RPEQ 7112















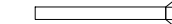
SCALE  
  
 SCALE 1:500 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 2**


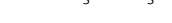

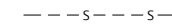
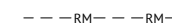

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C511**  
 REV  
**B**

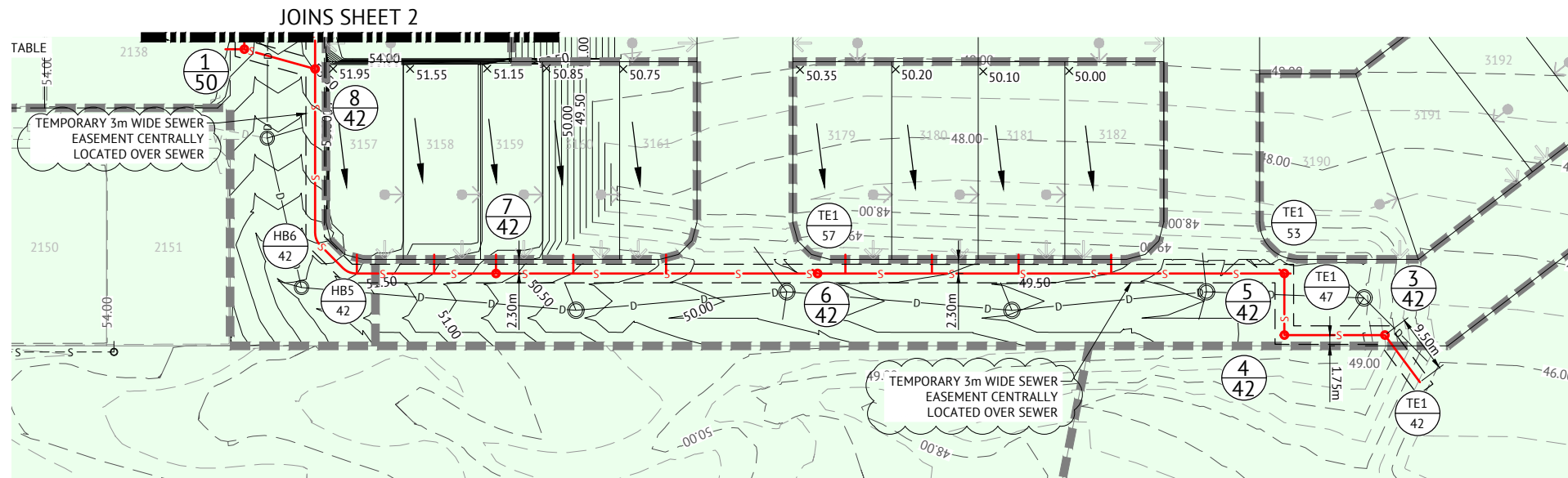


**LEGEND - PROPOSED**

-  GRAVITY SEWER
-  Ø100mm PROPERTY CONNECTION. 1.2m OFFSET TO BDY OR 7.5m WHERE ZERO LOT LINE EXISTS (U.N.O.).
-  MAINTENANCE STRUCTURE
-  PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
-  HORIZONTAL BEND (3m RADIUS).
- 38** LOT NUMBER
-  TRUNK SEWER
-  STORMWATER DRAINAGE
-  DRINKING WATER MAIN
-  ELECTRICAL (PROPOSED)
-  FINISHED CONTOURS (0.50m)
-  ZERO LOT LINE
-  FUTURE DRIVEWAY LOCATION
-  PROPOSED RETAINING WALL
-  PROPOSED CONCRETE FOOTPATH & KERB RAMP
-  STAGE BOUNDARY

**LEGEND - EXISTING**

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



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

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FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

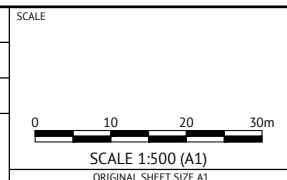
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
11/08/20	B	TEMPORARY SEWER EASEMENTS TO SEWER ALIGNMENT OUTSIDE OF PRECINCT BOUNDARY	KK	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB



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



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C512**  
 REV  
**B**



MAINTENANCE HOLE / SHAFT NO.	2/24	3/24	TE1/24
MH / MS COVER TYPE	B	B	B
MH / MS TYPE	J	A	TE
MH DROP TYPE	V	V	V
LINE NO.	24	28	24 24
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	62.951	63.251	63.494
PROPERTY CONNECTION TYPE	B	B	B
LOT NO.	2034	2035	2036

**LEGEND**  
 RR DENOTES ROAD RESERVE  
 PP DENOTES PRIVATE PROPERTY

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

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

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

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

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

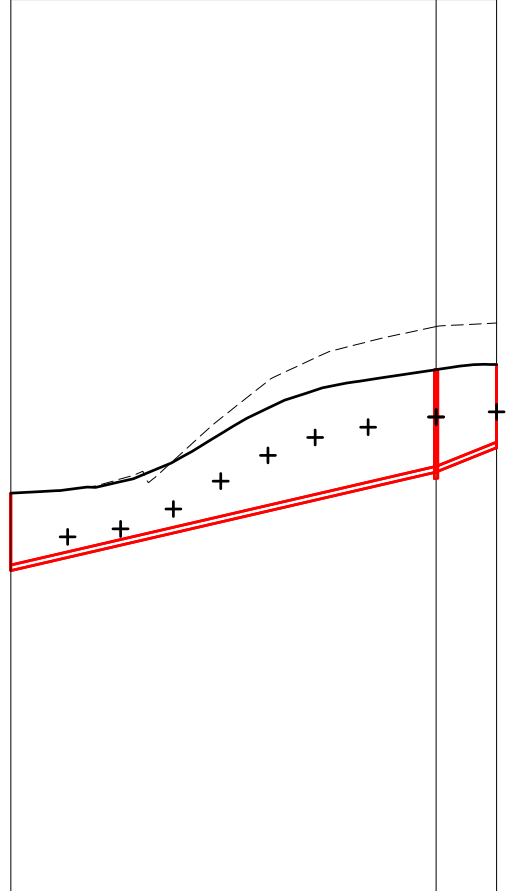
**HORIZONTAL BEND NOTE:**  
 DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

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

DATUM RL	51.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	62 21
LENGTH	73.728 1.000
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.057 2.037 2.639 2.592 2.570
INVERT LEVEL (IL)	62.144 62.164 63.348 63.395 63.442
FINISHED SURFACE LEVEL (FSL)	64.201 65.987 66.013 69.631
EXISTING SURFACE LEVEL (ESL)	61.653 62.939 62.934 70.727
CHAINAGE (CH)	55.750 129.478 130.478

LINE 24

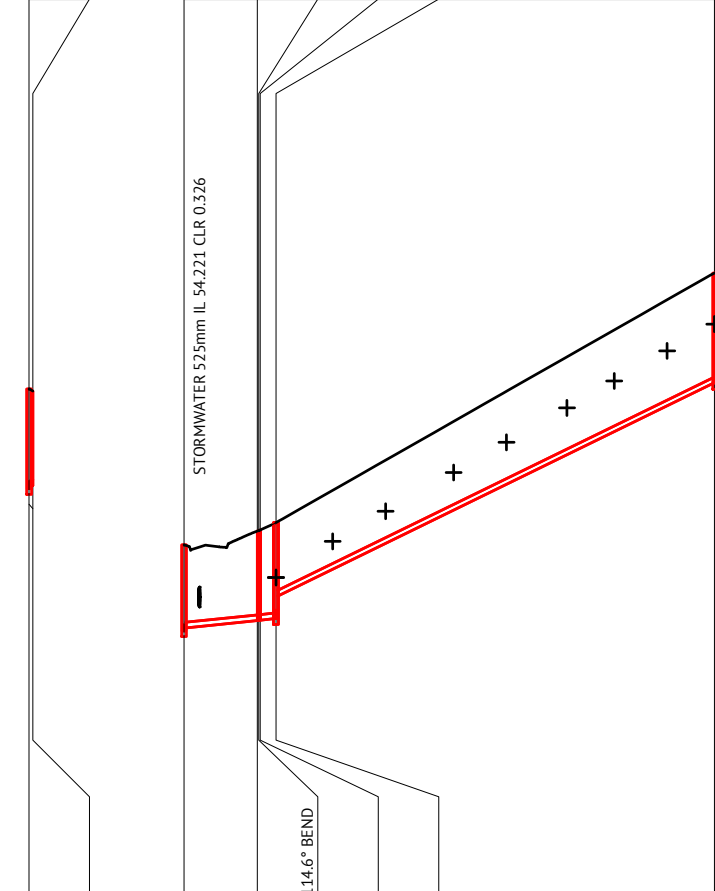
EX. TE	2/25	3/25	E/25
MH / MS COVER TYPE	B	B	B
MH / MS TYPE	J	J	END
MH DROP TYPE	V	V	V
LINE NO.	25	25	25
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	65.076	65.285	65.811
PROPERTY CONNECTION TYPE	B	B	B
LOT NO.	2005	2006	2007



DATUM RL	55.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	43 25
LENGTH	112.500 16.000
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.052 2.715 2.695 2.200
INVERT LEVEL (IL)	66.732 64.180 66.782 66.802 67.432
FINISHED SURFACE LEVEL (FSL)	66.232 65.987 65.931 69.631
EXISTING SURFACE LEVEL (ESL)	62.939 62.821 70.638 70.727
CHAINAGE (CH)	0.000 112.500 128.500

LINE 25

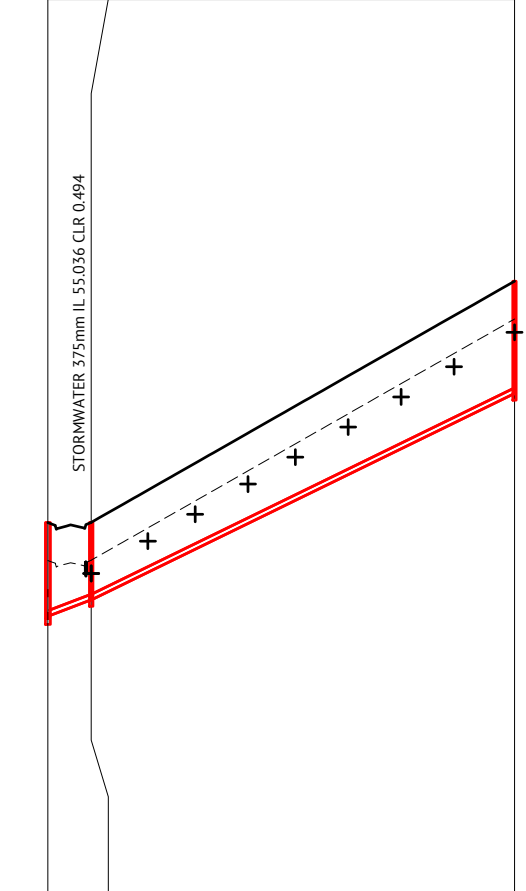
TE1/28	2/23	HB1/35	1/35	2/35
MH / MS COVER TYPE	B	B	B	B
MH / MS TYPE	A	HTP	HB	HTP
MH DROP TYPE	V	V	V	V
LINE NO.	28	24	28	35
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	55.001	55.955	56.753	57.778
PROPERTY CONNECTION TYPE	B	B	B	B
LOT NO.	2116	2115	2114	2113



DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	180 100 100 100 21
LENGTH	1.000 19.378 0.380 0.380 4.188 116.000
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.275 2.195 2.366 2.376 2.386 2.540 1.940 2.916
INVERT LEVEL (IL)	53.588 53.668 53.861 53.865 53.869 53.911 54.511 60.137
FINISHED SURFACE LEVEL (FSL)	55.862 56.227 56.242 56.255 56.451 56.451 63.053
EXISTING SURFACE LEVEL (ESL)	55.862 56.227 56.242 56.255 56.451 56.451 63.053
CHAINAGE (CH)	0.000 19.378 19.758 20.138 24.326 140.326

LINE 28

1/35	1/36	2/36	
MH / MS COVER TYPE	B	B	B
MH / MS TYPE	A	J	J
MH DROP TYPE	V	V	V
LINE NO.	35	36	36
PROPERTY CONNECTION DEPTH	1.350	1.350	1.350
PROPERTY CONNECTION INVERT LEVEL	55.107	55.962	56.674
PROPERTY CONNECTION TYPE	B	B	B
LOT NO.	2107	2106	2105



DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	28 21
LENGTH	11.461 112.000
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.540 2.460 2.059 2.039 2.986
INVERT LEVEL (IL)	53.911 53.991 54.398 54.418 59.850
FINISHED SURFACE LEVEL (FSL)	56.451 56.457 56.457 54.418 62.836
EXISTING SURFACE LEVEL (ESL)	56.451 56.457 56.457 54.418 62.836
CHAINAGE (CH)	0.000 11.461 123.461

LINE 36

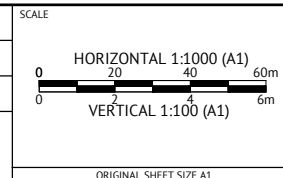
**FOR CONSTRUCTION**

11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	KK	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB
DATE	REV	DESCRIPTION	REC	APP



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**PAT BRADY** RPEQ 7112



CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SEWERAGE LONG SECTIONS - SHEET 2**

JOB CODE  
**MIR012-01**

SHEET NUMBER  
**C521**

REV  
**B**

MAINTENANCE HOLE / SHAFT NO.	5/23	1/37
MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	V
LINE NO.	37	23
PROPERTY CONNECTION DEPTH	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	58.936	59.431
PROPERTY CONNECTION TYPE	B	B
LOT NO.	2092	2098

15/42	1/38	TE1/38
B	B	TE
A	J	
V	V	
38	42	38
2162	59.116	1.250
2163	59.669	1.250

TE1/42	3/42	4/42	5/42	6/42	7/42	HB5/42	HB6/42	8/42	9/42	10/42	HB7/42	11/42	HB8/42	
B	B	B	B	B	B									
A	A	A	A	A	J	HTP	HB	HTP	HTP	HB	HTP	A	A	A
V	V	W	Y	W	Z									
42	42	42	42	57	42									
3182	48.246	1.250												
3181	48.391	1.250												
3180	48.527	1.250												
3179	48.662	1.250												
3161	48.935	1.250												
3160	49.244	1.250												
3159	49.615	1.250												
3158	49.993	1.250												
3157	50.503	1.250												
3156	52.591	1.250												
3155	53.228	1.250												
3154	53.754	1.250												
3153	54.283	1.250												
3152	54.814	1.250												

**LEGEND**  
 RR DENOTES ROAD RESERVE  
 PP DENOTES PRIVATE PROPERTY

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

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

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

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

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

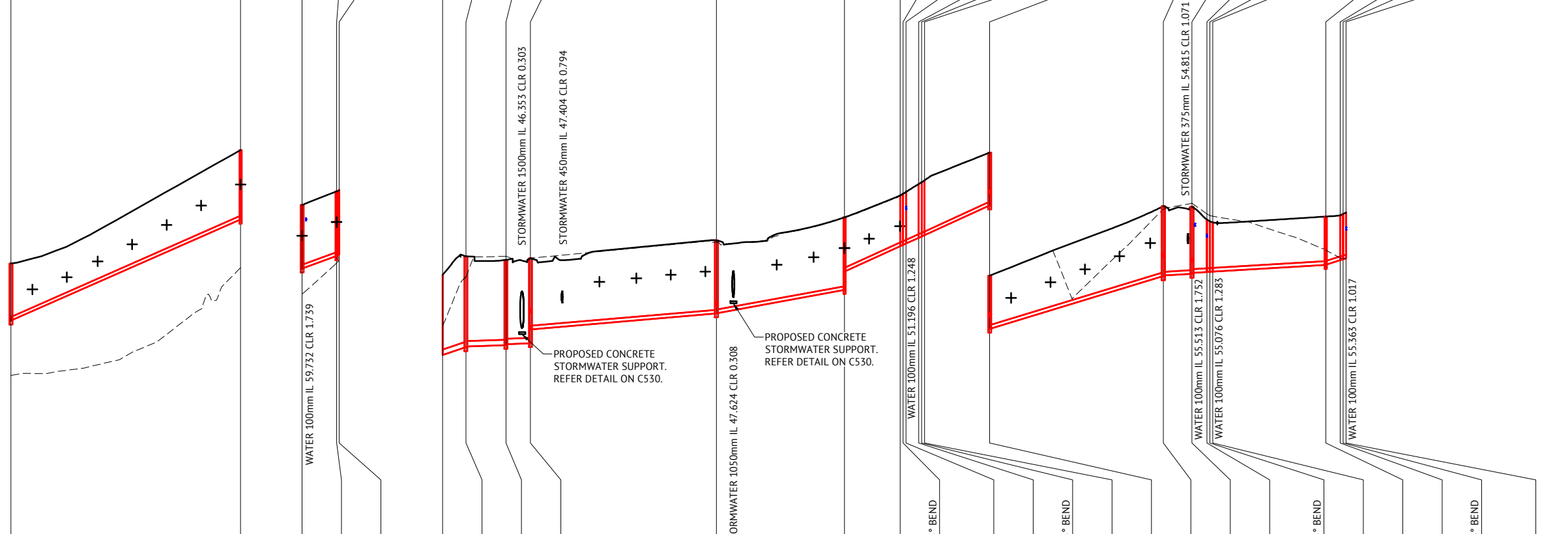
**HORIZONTAL BEND NOTE:**  
 DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

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

DATUM RL	48.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	23
LENGTH	93.200
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.325
INVERT LEVEL (IL)	57.661
FINISHED SURFACE LEVEL (FSL)	59.986
EXISTING SURFACE LEVEL (ESL)	55.443
CHAINAGE (CH)	93.200

DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	29
LENGTH	14.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.594
INVERT LEVEL (IL)	57.772
FINISHED SURFACE LEVEL (FSL)	60.366
EXISTING SURFACE LEVEL (ESL)	56.742
CHAINAGE (CH)	14.000

DATUM RL	37.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	31
LENGTH	9.500
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	3.705
INVERT LEVEL (IL)	45.574
FINISHED SURFACE LEVEL (FSL)	49.279
EXISTING SURFACE LEVEL (ESL)	48.435
CHAINAGE (CH)	9.500



LINE 37

38

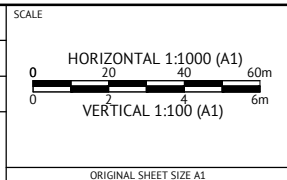
42

**FOR CONSTRUCTION**



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

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



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LONG SECTIONS - SHEET 3**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C522**  
 REV  
**B**

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS			
27/07/20	A	ORIGINAL ISSUE			





MAINTENANCE HOLE / SHAFT NO.		HB2/45	1/45	TE1/45
MH / MS COVER TYPE				B
MH / MS TYPE	HTP	HB	HTP	J
MH DROP TYPE				Z
LINE NO.			45	45
PROPERTY CONNECTION				
DEPTH				
PROPERTY CONNECTION				
INVERT LEVEL				
PROPERTY CONNECTION				
TYPE				
LOT NO.				

9/42		HB1/46	HB2/46	1/46	TE1/46
B					B
A	HTP	HB	HTP	HTP	J
V					Z
46	42				46
1.250					
55.503					
B					
3151					

5/42		TE1/47
B		
A		TE
W	Y	W
5347	42	47

8/42		1/50	2/50
B	B		B
A	J		J
W	V		V
50	42	50	
1.233		1.186	
52.352		53.035	
B		B	
2138		2140	
		53.626	
		B	
		2141	
		B	
		54.204	
		B	
		2141	

10/42		HB1/51	1/51
B			B
A	HTP	HB	HTP
W	V		V
51	42		
1.250			
55.308		56.123	
B		B	
2144		2142	
		56.541	
		B	
		3142	
		57.042	
		B	
		3141	
		57.578	
		B	
		3140	
		58.026	
		B	
		2144	

5/42		TE1/53
B		
A		TE
W	Y	W
5347	42	53

6/42		TE1/57
B		
A		TE
W	V	
57	42	57

**LEGEND** RR DENOTES ROAD RESERVE  
PP DENOTES PRIVATE PROPERTY

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

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

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

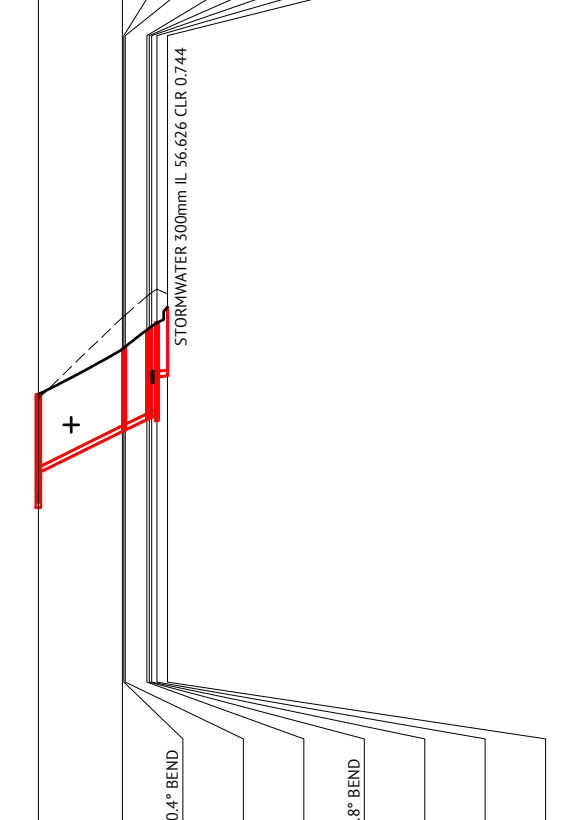
PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

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

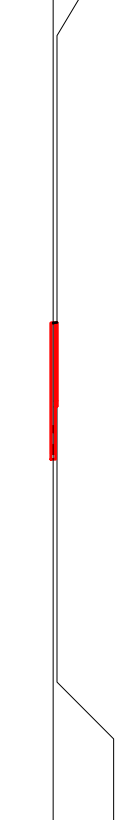
**HORIZONTAL BEND NOTE:**  
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

**PROPERTY CONNECTION NOTE:**  
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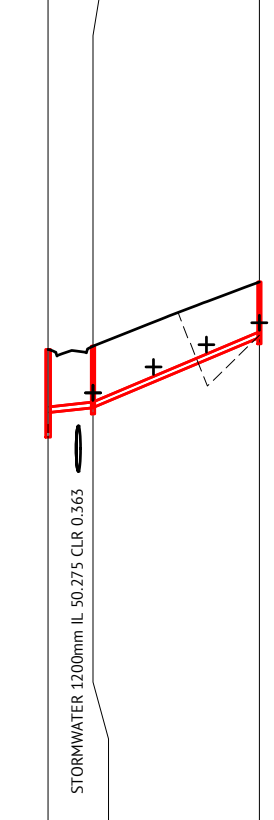
DATUM RL	47.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	21 21 21 100
LENGTH	0.688 0.688 1.354 2.824
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.518 2.550 2.583 2.655 1.455 1.646
INVERT LEVEL (IL)	57.704 57.738 57.771 57.837 59.037 59.065
FINISHED SURFACE LEVEL (FSL)	60.223 60.288 60.354 60.491 59.037 60.711
EXISTING SURFACE LEVEL (ESL)	59.492 59.636 59.795 59.918 59.037 59.778
CHAINAGE (CH)	TP 30.402 IP 31.090 TP 31.777 33.131 35.955



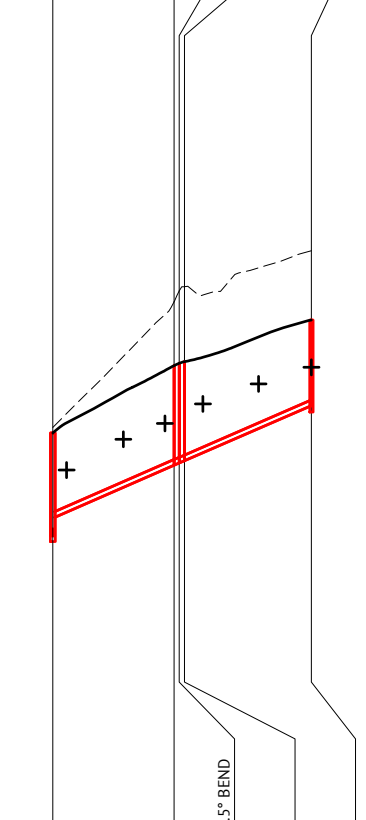
DATUM RL	44.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	21 21 21 21 21 21 21 100
LENGTH	22.235 0.383 0.383 5.705 0.648 0.648 1.368 2.824
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.851 2.060 2.175 2.188 2.201 2.365 2.382 2.399 2.434 1.434 1.817
INVERT LEVEL (IL)	53.462 54.253 55.331 55.350 55.368 55.645 55.677 55.708 55.774 56.774 56.803
FINISHED SURFACE LEVEL (FSL)	56.312 56.341 57.507 57.538 57.570 58.010 58.058 58.107 58.209 58.774 58.619
EXISTING SURFACE LEVEL (ESL)	56.192 58.341 58.376 58.409 58.903 58.956 59.004 59.094 59.094 59.778 59.778
CHAINAGE (CH)	0.000 TP 22.235 IP 22.618 TP 23.000 TP 28.706 IP 29.354 TP 30.003 31.370 34.194



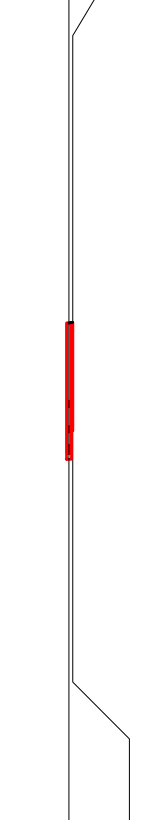
DATUM RL	35.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100
LENGTH	1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	3.457 2.216 2.222
INVERT LEVEL (IL)	45.742 46.982 46.992
FINISHED SURFACE LEVEL (FSL)	49.198 49.214 49.214
EXISTING SURFACE LEVEL (ESL)	49.209 49.201 49.201
CHAINAGE (CH)	0.000 1.000



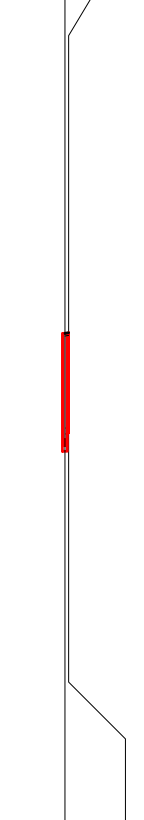
DATUM RL	40.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 D.I. DN150 uPVC SN8
GRADE (1 IN X)	100 24
LENGTH	11.889 44.002
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.168 1.662 1.633 1.613 1.481
INVERT LEVEL (IL)	51.327 51.833 51.952 51.972 53.804
FINISHED SURFACE LEVEL (FSL)	53.495 53.585 53.585 53.876 55.285
EXISTING SURFACE LEVEL (ESL)	53.480 53.585 53.585 53.876 53.876
CHAINAGE (CH)	0.000 11.889 55.891



DATUM RL	45.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	23 23 23 23
LENGTH	32.071 1.375 1.375 33.600
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.724 2.232 2.634 2.638 2.620 2.276
INVERT LEVEL (IL)	53.566 54.058 55.437 55.496 55.555 57.000
FINISHED SURFACE LEVEL (FSL)	56.290 58.071 58.134 58.175 59.276 59.276
EXISTING SURFACE LEVEL (ESL)	56.434 59.757 60.046 60.159 61.109 61.109
CHAINAGE (CH)	0.000 TP 32.071 IP 33.446 TP 34.821 68.421



DATUM RL	35.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	28
LENGTH	1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	3.457 2.882 2.860
INVERT LEVEL (IL)	45.742 46.317 46.353
FINISHED SURFACE LEVEL (FSL)	49.198 49.213 49.213
EXISTING SURFACE LEVEL (ESL)	49.209 49.240 49.240
CHAINAGE (CH)	0.000 1.000



DATUM RL	36.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	36
LENGTH	1.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.972 2.657 2.646
INVERT LEVEL (IL)	46.953 47.268 47.296
FINISHED SURFACE LEVEL (FSL)	49.925 49.941 49.941
EXISTING SURFACE LEVEL (ESL)	49.854 49.871 49.871
CHAINAGE (CH)	0.000 1.000

**FOR CONSTRUCTION**

11/08/20	B	ADDED CLEARANCES TO SERVICE CROSSINGS TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	KK	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB
DATE	REV	DESCRIPTION	REC	APP

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

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

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

CLIENT: MIRVAC GROUP  
PROJECT: EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT  
LOCATION: TEVIOT ROAD, GREENBANK  
SHEET TITLE: SEWERAGE LONG SECTIONS - SHEET 5

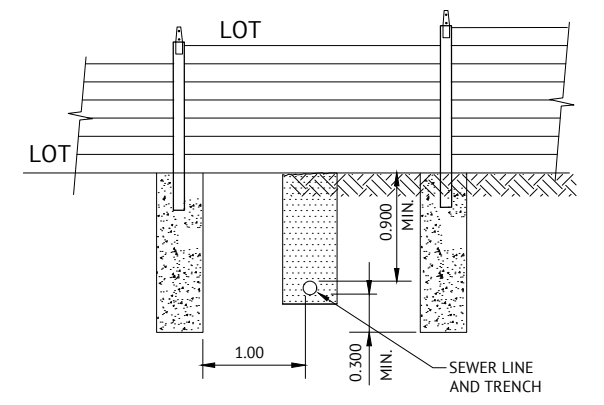
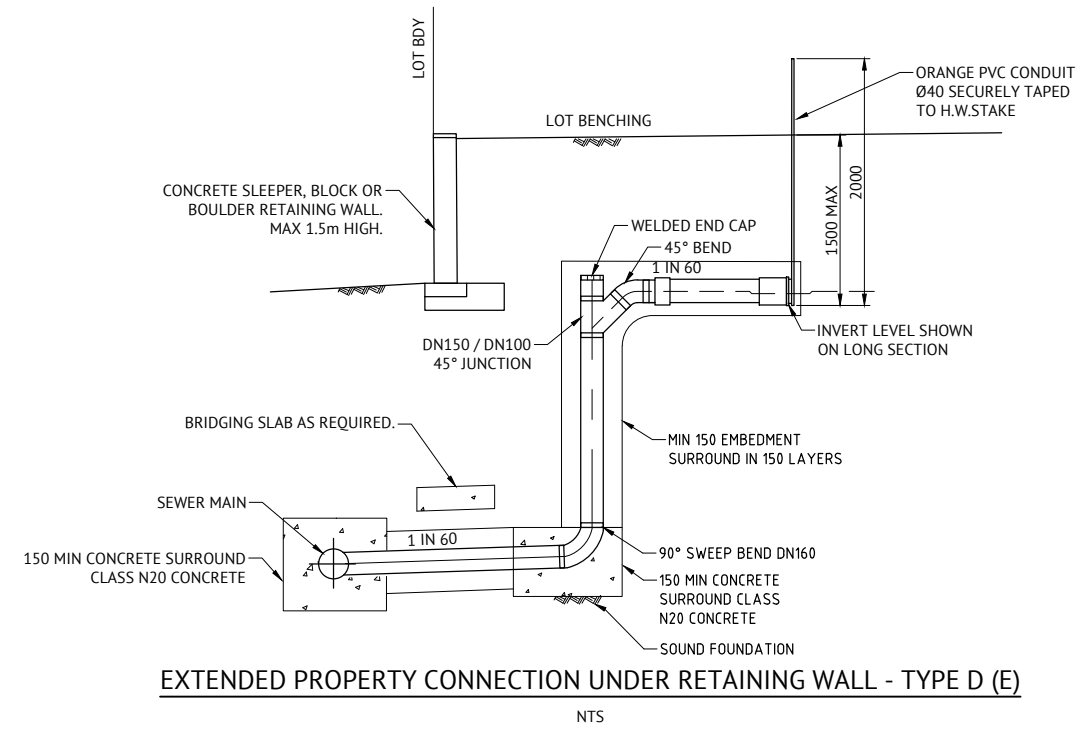
JOB CODE: MIR012-01  
SHEET NUMBER: C524  
REV: B

**LIVE SEWER WORKS**

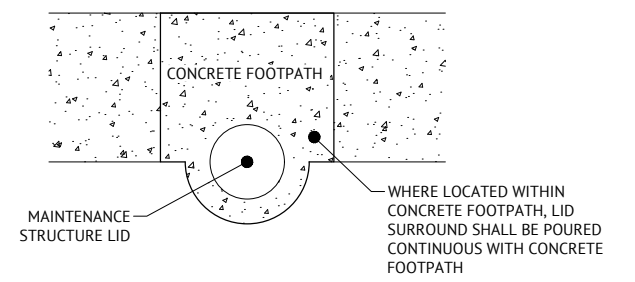
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 1/21, CONSTRUCTOR TO LAY NEW LINE 21. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/21	A	B	FUT. 2136	54.647	54.647	52.483	2.164
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 21 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 1/22, CONSTRUCTOR TO LAY NEW LINE 22. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/22	A	B	FUT. 2132	54.799	54.799	52.781	2.018
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 22 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 1/23, CONSTRUCTOR TO LAY NEW LINE 23. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/23	A	B	2118	55.365	55.365	53.186	2.179
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 23 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
4(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 1/24, CONSTRUCTOR TO LAY NEW LINE 24. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/24	A	B	2030	63.149	63.149	61.002	2.147
4(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 24 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
5(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 9/20, CONSTRUCTOR TO LAY NEW LINE 20. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	9/20	A	B	2025	66.189	66.189	64.180	2.009
5(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 20 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
6(A)	CONSTRUCTOR TO TRIM EXISTING 6.952m LONG STUB BACK TO MANHOLE 2/25 AND CAP.	150	2/25	A	B	2004	66.232	66.232	64.180	2.052
6(B)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 2/25, CONSTRUCTOR TO LAY NEW LINE 25. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.									
6(C)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 25 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

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

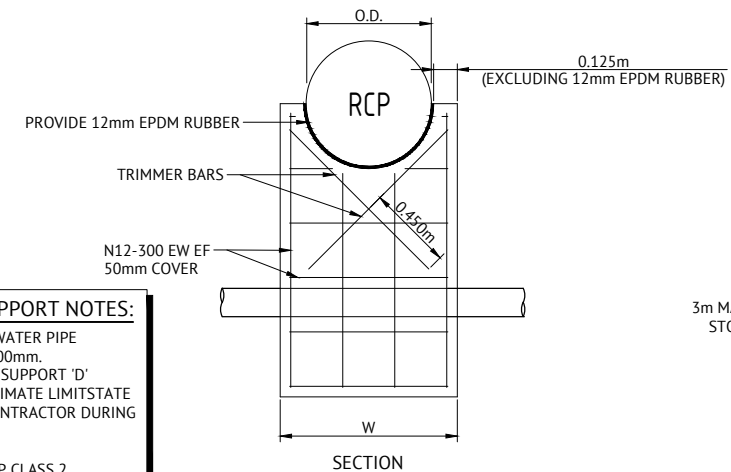
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE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



**SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL**  
NTS



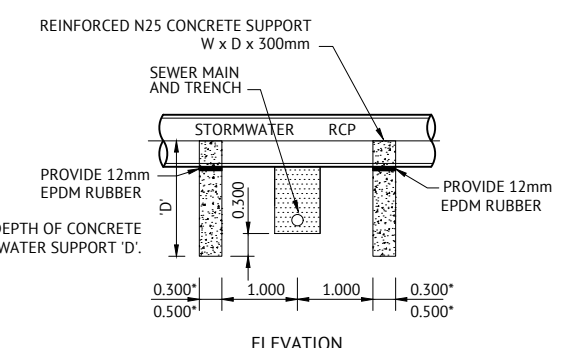
**TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL**  
NTS



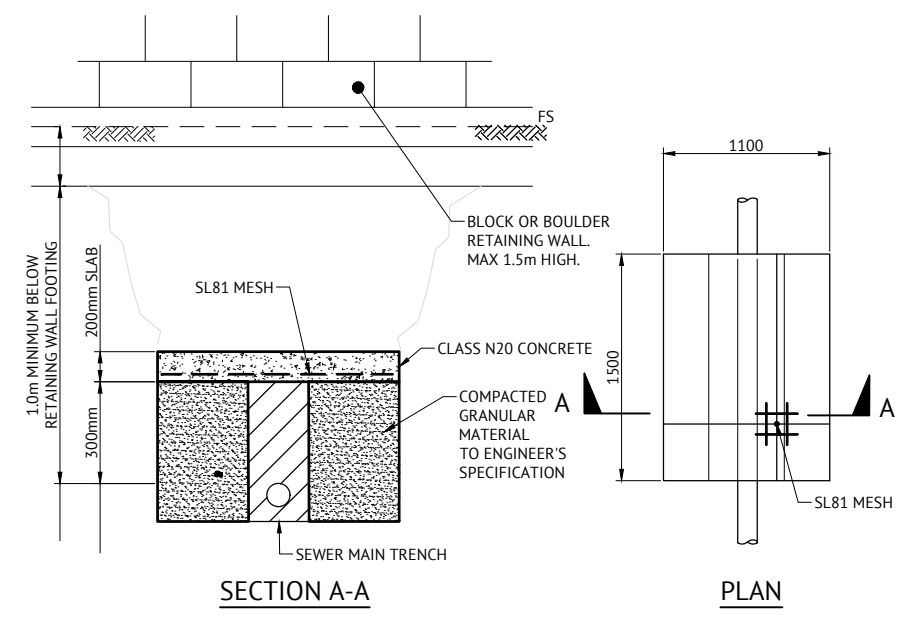
**CONCRETE STORMWATER SUPPORT TYPICAL DETAIL**  
SCALE 1:20

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

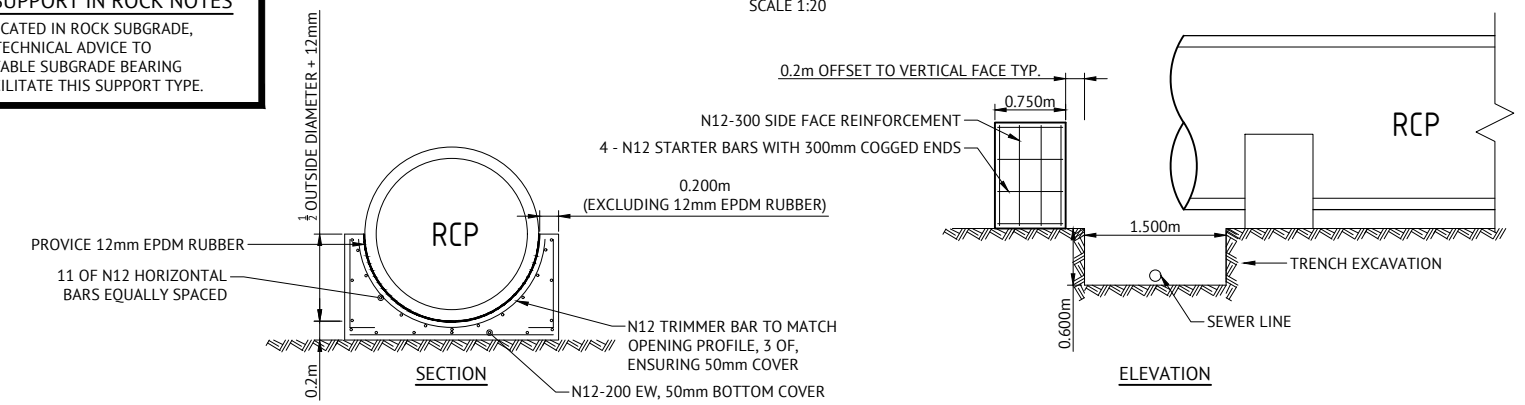
- CONCRETE STORMWATER SUPPORT IN ROCK NOTES**
- WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.



**ELEVATION**



**SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL**  
NTS



**CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL**  
SCALE 1:40

STRUCTURAL DETAILS APPROVED	DATE
BRIONY HOOPER	RPEQ 10854

**FOR CONSTRUCTION**

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

**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  
**A LANGDON**

CHECKED  
**M MAJZNER**

PROJECT MANAGER  
**R LLEWELYN**

PROJECT DIRECTOR  
**P Brady**

PAT BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SEWERAGE NOTES AND DETAILS**

JOB CODE  
**MIR012-01**

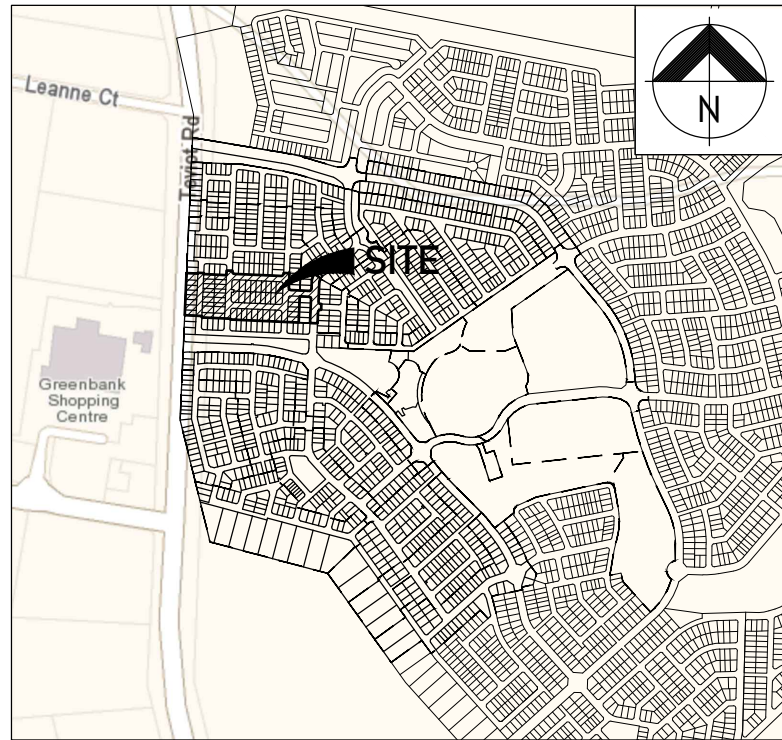
SHEET NUMBER	REV
<b>C530</b>	<b>A</b>

# EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT

## TEVIOT ROAD, GREENBANK

### FOR MIRVAC GROUP

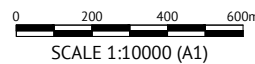
#### WATER RETICULATION



### LOCALITY PLAN

#### REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844  
 LOT 9 on S312355



### SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2

#### GENERAL NOTES

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

#### VEGETATION PROTECTION

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

#### SOIL

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

#### CREEK CROSSINGS

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

#### REHABILITATION

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

#### CONSTRUCTION REQUIREMENTS

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

#### TRENCH SPOIL NOTE:

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

#### EXCAVATION IN ROCK NOTE:

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

#### INDEMNITY - EXISTING SERVICES

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

#### RPEQ CERTIFICATION

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

#### INSPECTION REQUIREMENTS

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

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

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

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

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

#### SEQ CODE STD DRAWING SCHEDULE

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



### FOR CONSTRUCTION



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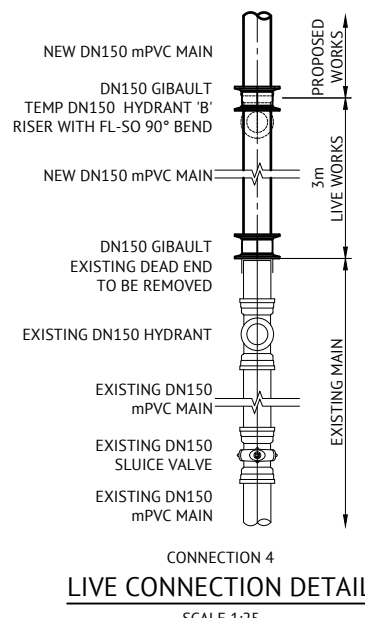
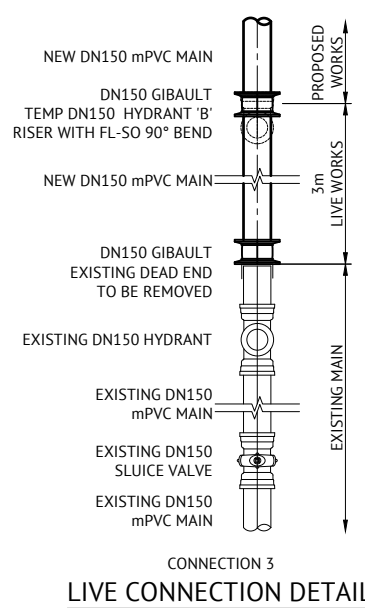
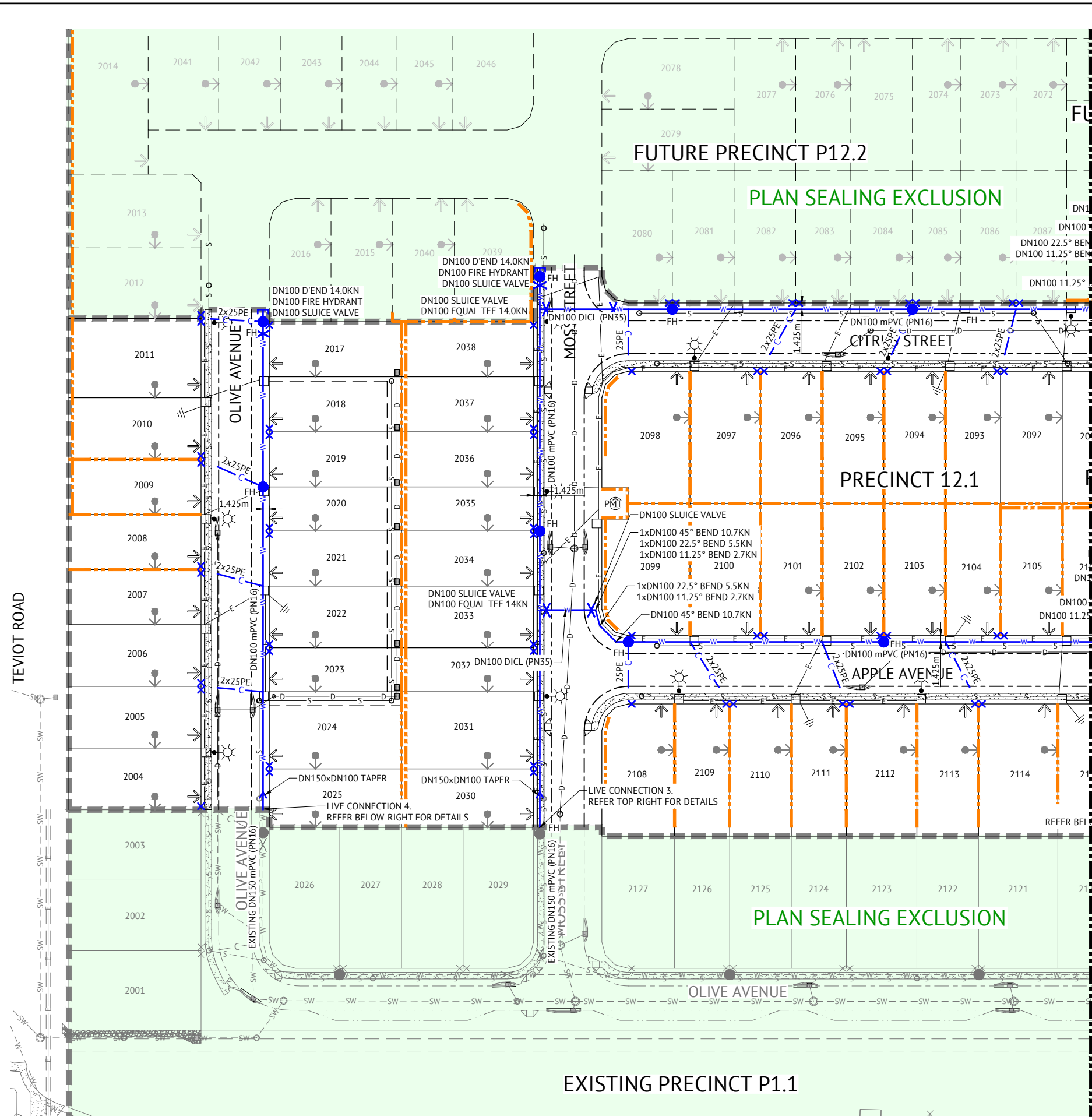
DESIGNED  
E LONGMIRE  
 CHECKED  
M MAJZNER  
 PROJECT MANAGER  
R LLEWELYN  
 PROJECT DIRECTOR  
  
 PAT BRADY RPEQ 7112

SCALE  
  
 SCALE 1:10000 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**WATER RETICULATION LOCALITY PLAN & NOTES**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C600**  
 REV  
**A**

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



- 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.

**LEGEND - PROPOSED**

	POTABLE WATERMAIN
	POTABLE WATER RETICULATION CONDUIT
	WATER SERVICES & WATER METER BOX POINT, METER BY OTHERS
	SLUCE VALVE
	FIRE HYDRANT
	TEST POINT
	DEAD END
	DEFLECTION
	TRUNCATIONS 5 DEGREES OR LESS
	LOT NUMBER
	STORMWATER
	GRAVITY SEWER
	SEWER RISING MAIN
	ELECTRICITY
	ZERO LOT BOUNDARY
	PREFERRED DRIVEWAY LOCATION (BY OTHERS)
	SITE BOUNDARY
	PROPOSED RETAINING WALL
	PMT PAD MOUNTED TRANSFORMER

**LEGEND - EXISTING**

	WATER
	SLUCE VALVE
	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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AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NAME OF SIGNATORY  
 RPEQ No. or LICENCE  
 COMPANY NAME  
 START DATE

**FOR CONSTRUCTION**

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

REVISIONS

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DESIGNED: E LONGMIRE  
 CHECKED: M MAJZNER  
 PROJECT MANAGER: R LLEWELYN  
 PROJECT DIRECTOR: PAT BRADY  
 RPEQ 7112

SCALE

0 10 20 30m

SCALE 1:500 (A1)

0 0.5 1.0 1.5m

SCALE 1:25 (A1)

ORIGINAL SHEET SIZE A1

CLIENT: **MIRVAC GROUP**

PROJECT: **EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

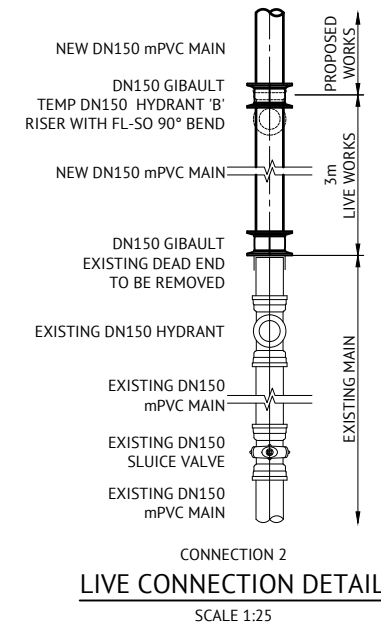
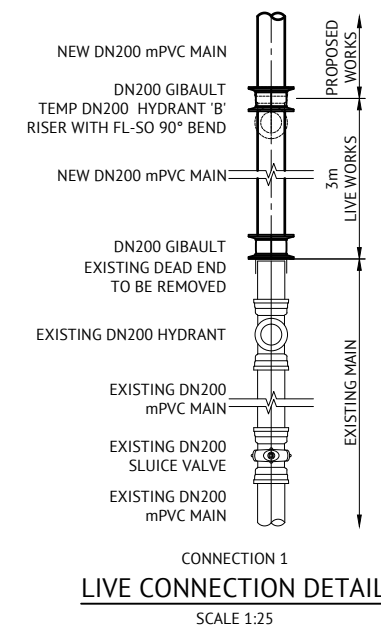
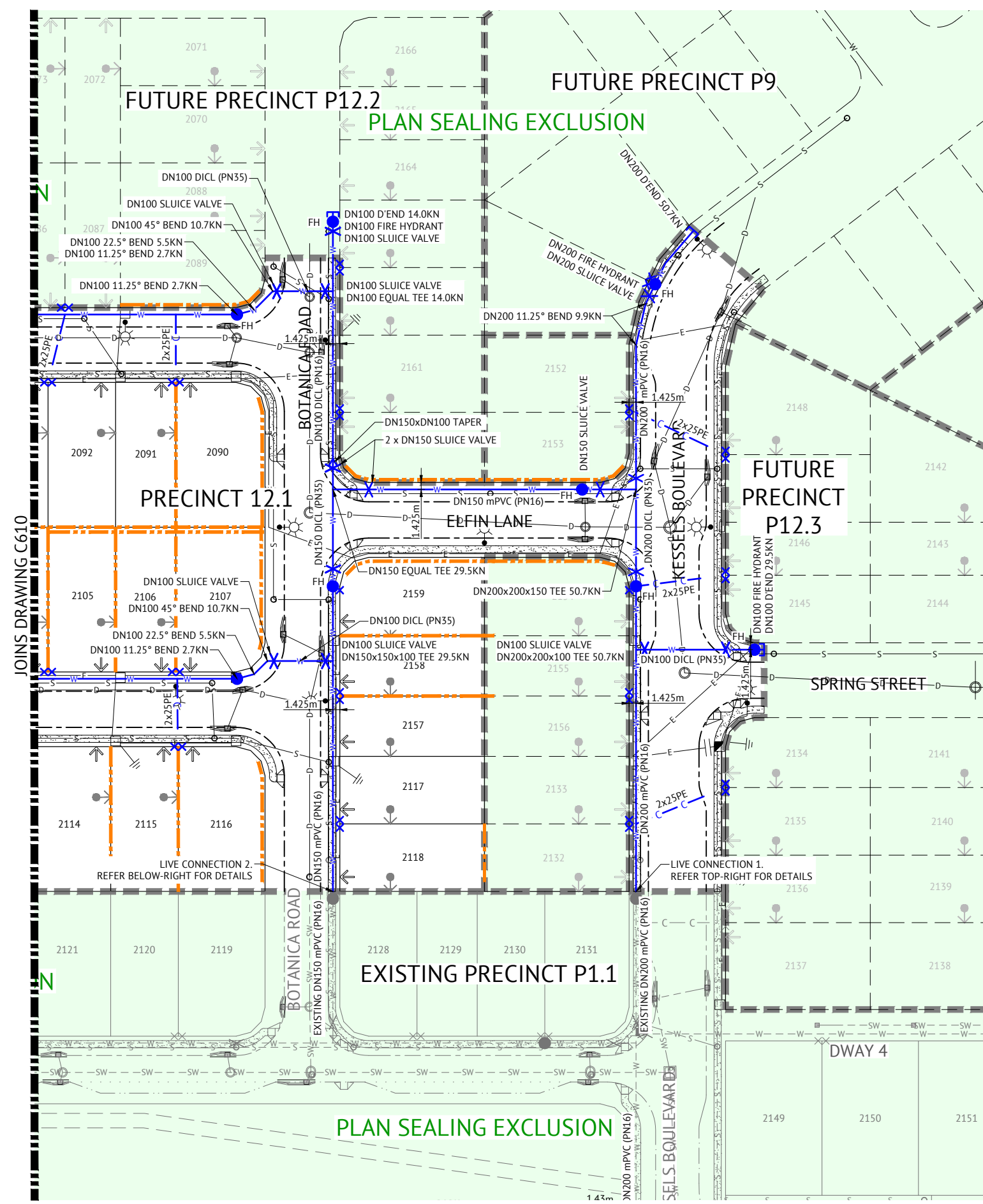
LOCATION: **TEVIOT ROAD, GREENBANK**

SHEET TITLE: **WATER RETICULATION LAYOUT PLAN - SHEET 1**

JOB CODE: **MIR012-01**

SHEET NUMBER: **C610**

REV: **A**



- 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.

**LEGEND - PROPOSED**

	POTABLE WATERMAIN
	POTABLE WATER RETICULATION CONDUIT
	WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
	SLUICE VALVE
	FIRE HYDRANT
	TEST POINT
	DEAD END
	DEFLECTION
	TRUNCATIONS 5 DEGREES OR LESS
	38 LOT NUMBER
	SW STORMWATER
	S GRAVITY SEWER
	RM SEWER RISING MAIN
	E ELECTRICITY
	→ ZERO LOT BOUNDARY
	↓ PREFERRED DRIVEWAY LOCATION (BY OTHERS)
	--- SITE BOUNDARY
	--- PROPOSED RETAINING WALL
	PMT PAD MOUNTED TRANSFORMER

**LEGEND - EXISTING**

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

**INDEMNITY - EXISTING SERVICES**

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

AS CONSTRUCTED DETAILS FOR AMEND.

I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NAME OF SIGNATORY: \_\_\_\_\_  
 RPEQ No. or LICENCE: \_\_\_\_\_  
 COMPANY NAME: \_\_\_\_\_  
 START DATE: \_\_\_\_\_

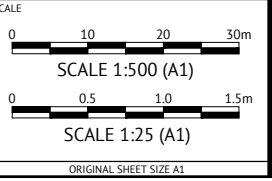
**FOR CONSTRUCTION**

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

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DESIGNED: E LONGMIRE  
 CHECKED: M MAJZNER  
 PROJECT MANAGER: R LLEWELYN  
 PROJECT DIRECTOR: PAT BRADY  
 RPEQ 7112



CLIENT: **MIRVAC GROUP**

PROJECT: **EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION: **TEVIOT ROAD, GREENBANK**

SHEET TITLE: **WATER RETICULATION LAYOUT PLAN - SHEET 2**

JOB CODE: **MIR012-01**

SHEET NUMBER	REV
C611	A



### EROSION RISK RATING

BASED ON AVERAGE MONTHLY RAINFALL (SOURCE TABLE 4.4.2 IECA 2008)

MONTHLY DATA	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
MEAN RAINFALL	101.00	79.50	130.90	535.50	33.50	67.80	19.80	24.50	23.40	35.80	109.10	75.500
EROSION RISK	HIGH	MODERATE	HIGH	MODERATE	LOW	MODERATE	VERY LOW	VERY LOW	VERY LOW	LOW	HIGH	MODERATE
	VERY LOW RISK: 0 TO 30mm											
	LOW RISK: 30+ TO 45mm											
	MODERATE RISK: 45+ TO 100mm											
	HIGH RISK: 100+ TO 225mm											
	EXTREME RISK: >225mm											

### SOIL LOSS ESTIMATIONS

$$A = R * K * LS * C * P$$

where:	
A	ANNUAL SOIL LOSS DUE TO EROSION (t/ha/yr)
R	RAINFALL ERODIVITY FACTOR
K	SOIL ERODIBILITY FACTOR
LS	TOPOGRAPHIC SLOPE/LENGTH FACTOR
P	EROSION CONTROL PRACTICE FACTOR
C	COVER AND MANAGEMENT FACTOR

CONSTRUCTION AREA	EXPOSED AREA (ha)	R	K	EQUAL AREA SLOPE (%)	LS	P	C	A (t/ha/yr)	SOIL LOSS (t/yr)
CATCHMENT A	14.210	3262.000	0.043	6.000	1.470	1.300	1.000	268	3808
CATCHMENT B	1.040	3262.000	0.043	10.000	2.810	1.300	1.000	512	533
CATCHMENT C	2.360	3262.000	0.043	11.000	3.200	1.300	1.000	584	1378
CATCHMENT D	1.240	3262.000	0.043	11.000	3.200	1.300	1.000	584	724
CATCHMENT E	1.980	3262.000	0.043	4.000	0.650	1.300	1.000	119	235

APPLICABLE AREA ID	SOIL LOSS RATE (t/ha/year)	SEDIMENT CONTROL TECHNIQUE	DEFAULT SEDIMENT CONTROL TREATMENT MEASURE
	0 TO 75	TYPE 3	SEDIMENT FENCE, SEDIMENT TRAP
CATCHMENT E	75 TO 150	TYPE 2	FILTER TUBE DAM, ROCK FILTER DAM, SEDIMENT TRENCH, SEDIMENT WEIR, COMPOST/MULCH BERM
CATCHMENT A, B, C & D	> 150	TYPE 1	SEDIMENT BASIN (SIZED IN ACCORDANCE WITH DESIGN STANDARD)

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

*Chris Hutton*  
CHRIS HUTTON CPESC NO. 6241

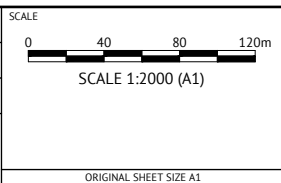
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
12/10/2020	B	AMENDED ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



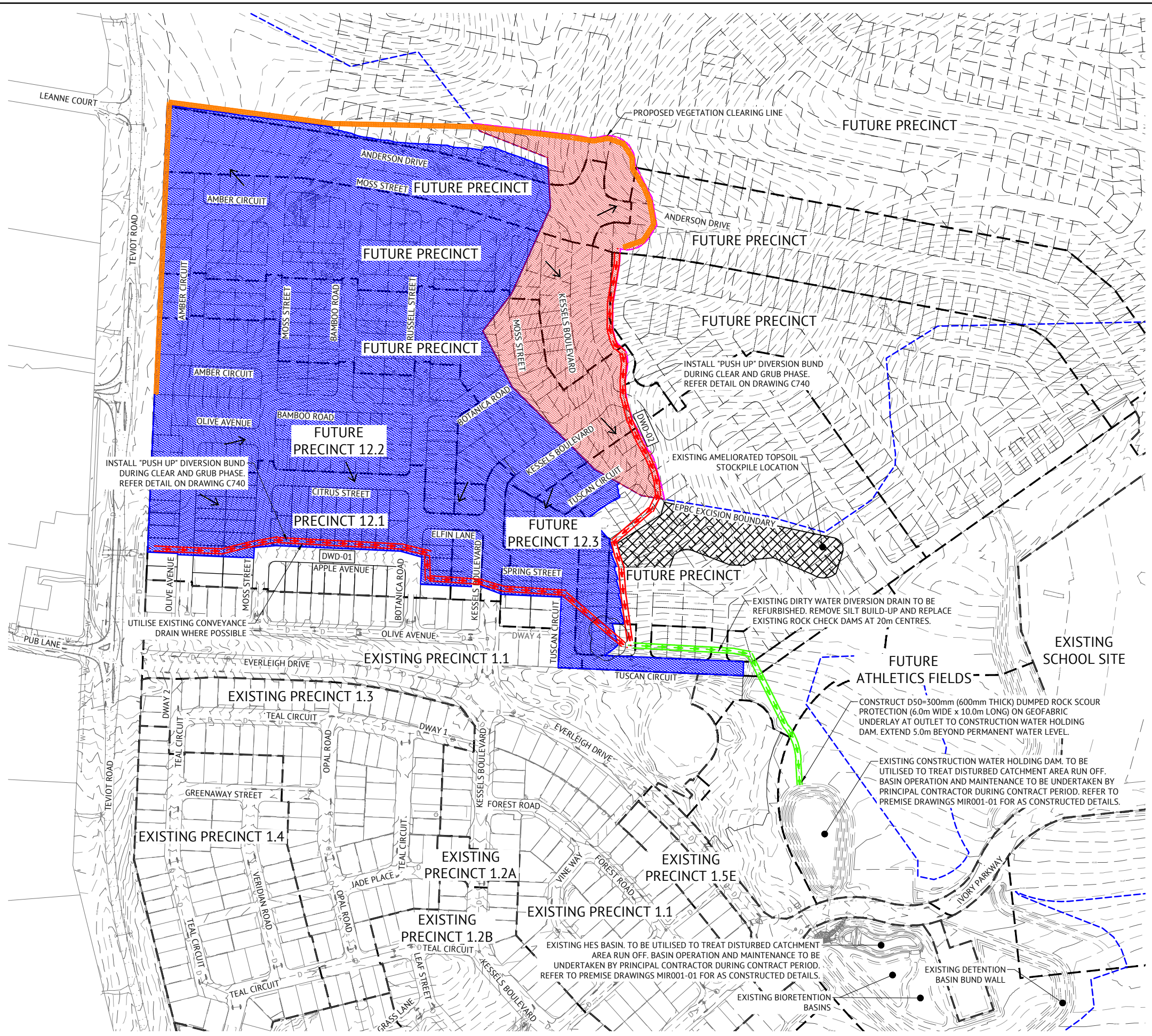
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DESIGNED  
**C HUTTON**  
CHECKED  
**M MAJZNER**  
PROJECT MANAGER  
**R LLEWELYN**  
PROJECT DIRECTOR  
*Pat Brady*  
PAT BRADY RPEQ 7112

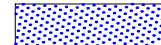
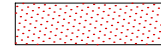






CLIENT  
**MIRVAC GROUP**  
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**OVERALL EROSION & SEDIMENT CONTROL KEY PLAN**



JOB CODE  
**MIR012-01**  
SHEET NUMBER  
**C700**  
REV  
**B**



**LEGEND - PROPOSED**

-  PREVIOUSLY CLEARED AREA. DISTURBANCE DUE TO MINOR VEGETATION CLEARING AND GRUBBING
-  DISTURBED AREA. DISTURBANCE DUE TO NEW VEGETATION CLEARING AND GRUBBING
-  MULCH BERM IN ACCORDANCE WITH IECA STD DRG MB-01
-  CLEAN WATER DIVERSION BUND
-  DIRTY WATER DIVERSION BUND
-  FLOW DIRECTION ARROW

**LEGEND - EXISTING**

-  12.0 MINOR CONTOURS (1.00m)
-  MINOR CONTOURS (0.50m)
-  DIRTY WATER DIVERSION BUND

**INSTALLATION SEQUENCE PRE-CLEARING AND PRE-BULK EARTHWORKS**

- STEP 1
- A. INSTALL ALL WEATHER ENTRANCE / EXIT POINT(S).
  - B. SET UP SITE OFFICE AND WASTE STORAGE AREAS PARKING AREA FOR VEHICLES AND PLANT;
  - C. ERECT BARRIER FENCING FOR "NO GO" AND VEGETATION PROTECTION AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.
  - D. MARK OUT THE LIMITS OF DISTURBANCE WITHIN THE SITES BOUNDARIES.
- STEP 2
- E. CLEAR AREAS FOR AND CLEAN/DIRTY WATER DIVERSION DRAINS ONLY.
  - F. CONSTRUCT "DIRTY WATER & CLEAN WATER" CATCH DRAINS AND LINE AS PER DETAILS ON DRAWING C740.

**PHASING NOTES:**

PHASE 1 (PRE-CLEARING AND PRE BULK EARTHWORKS) UNDERTAKE ONLY WORKS RELATED TO THE PHASE 1 ESC INSTALLATION SEQUENCE.

**NOTES**

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. ALL CLEAN AND DIRTY WATER CATCH DRAINS ARE TO HAVE ROCK CHECK DAMS PLACED IN ACCORDANCE WITH IECA STD DWG. RCD-01.
4. THE CONSTRUCTION SITE ENTRANCE ROCK SHAKER PAD LOCATION TO BE DETERMINED BY THE SITE FOREMAN AND CONFIRMED BY SITE SUPERINTENDENT. LOCATION TO BE MARKED UP ON ESC PLANS ONCE CONFIRMED.

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

*C. Hutton*  
CHRIS HUTTON CPESC NO. 6241

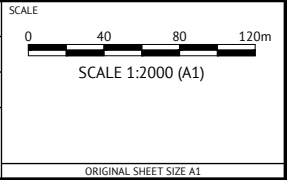
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISED BY	APPROVED BY
12/10/2020	B	AMENDED DISTURBED AREA TO MATCH EARTHWORKS EXTENT AND ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
			REC	APP



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PROJECT MANAGER: R LLEWELYN  
PROJECT DIRECTOR: PAT BRADY  
RPEQ 7112



CLIENT: **MIRVAC GROUP**

PROJECT: **EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION: **TEVIOT ROAD, GREENBANK**

SHEET TITLE: **EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE**

JOB CODE		<b>MIR012-01</b>
SHEET NUMBER	REV	<b>C710 B</b>



**LEGEND - PROPOSED**

- EXTENT OF CUT
- EXTENT OF FILL
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- FIELD INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-02 FOR DETAILS.
- FLOW DIRECTION OR RUNOFF
- MULCH BERM
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION BUND
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

**LEGEND - EXISTING**

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING MULCH BUND. BUILT DURING CLEARING AND GRUBBING PHASE
- EXISTING DIRTY WATER DIVERSION BUND. BUILT DURING CLEARING AND GRUBBING PHASE

**INSTALLATION SEQUENCE CLEARING AND BULK EARTHWORKS**

- STEP 1  
ONCE CATCH DRAINS ARE ESTABLISHED, STRIP TOPSOIL FROM SITE AND STOCKPILE AS DIRECTED BY THE SITE SUPERINTENDENT. ENSURE DOWNSTREAM MULCH BUNDS AND UPSTREAM DIVERSION BANKS ARE OPERATIONAL AROUND STOCKPILE AREAS.
- STEP 2  
PERFORM BULK EARTHWORKS ON LEADS CUT TO FILL ON SITE IN ACCORDANCE WITH THE CIVIL BULK EARTHWORKS DRAWINGS.
- STEP 3  
ONCE FINAL CUT AND FILL BATTER LEVELS HAVE BEEN ACHIEVED, REMOVE REQUIRED TOPSOIL FROM STOCKPILED AREAS AND PLACE ON BATTERS AND OTHER DISTURBED AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.
- STEP 4  
AS SOON AS POSSIBLE AFTER TOPSOIL HAS BEEN PLACED ON BATTERS AND OTHER DISTURBED AREAS, THESE AREAS SHOULD BE SEED OR HYDROMULCHED TO STABILISE. IF A RAINFALL EVENT IS FORECAST WHICH IS LIKELY TO CAUSE RUNOFF PRIOR TO STRIPPED AREAS BEING STABILISED, A COMBINATION OF MULCH AND BIDUM IS TO BE USED TO COVER EXPOSED AREAS.
- STEP 5  
ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MONITORED UNTIL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AS REQUIRED BY THE SUPERINTENDENT.

**NOTES**

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. ALL CLEAN AND DIRTY WATER CATCH DRAINS ARE TO HAVE ROCK CHECK DAMS PLACED IN ACCORDANCE WITH IECA STD DWG RCD-01.

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

*C. Hutton*  
CHRIS HUTTON CPESC NO. 6241

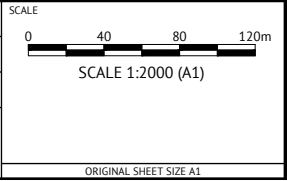
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
12/10/2020	B	AMENDED ROAD NAMES	KK	PB
11/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB
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CLIENT  
**MIRVAC GROUP**

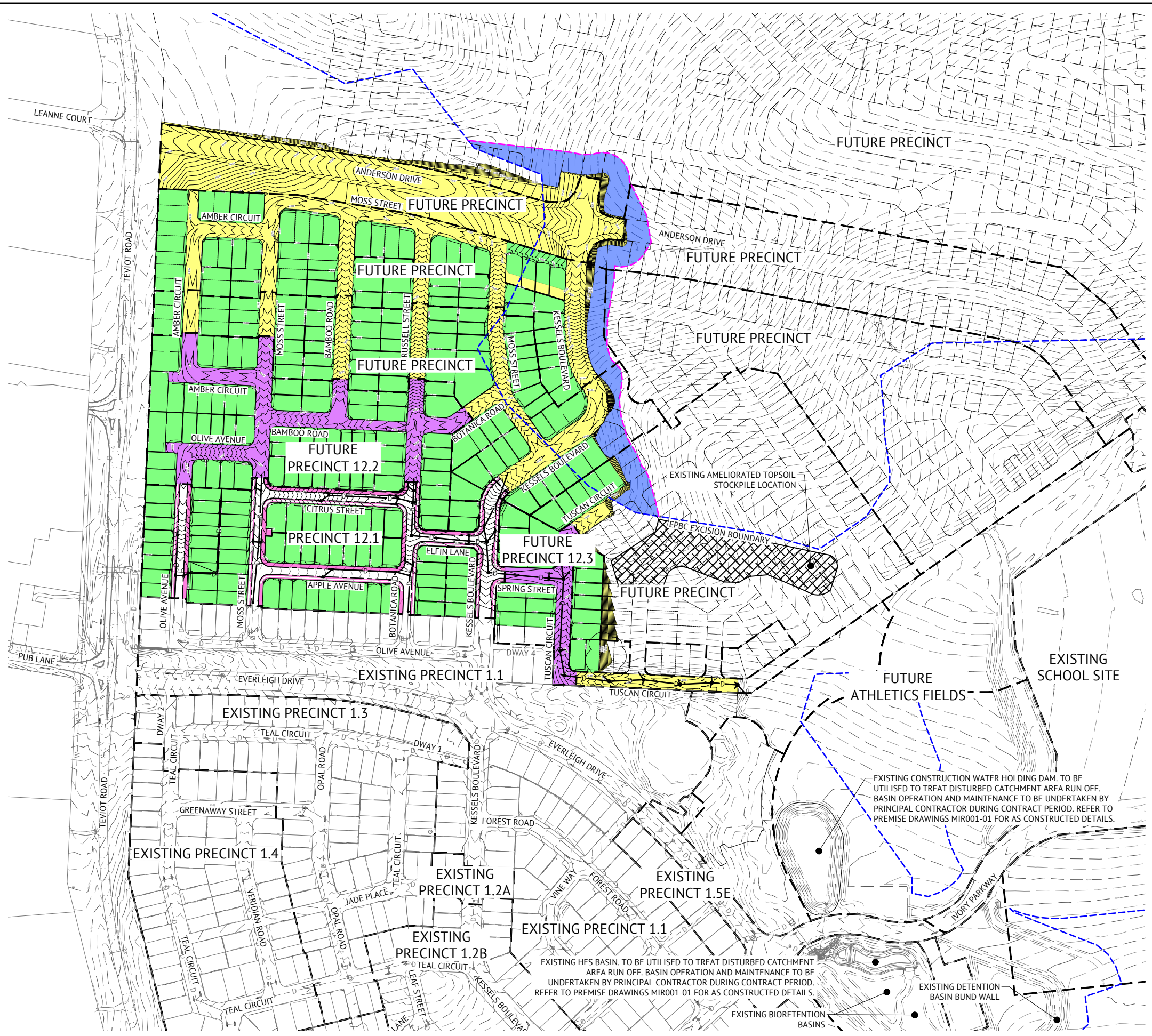
PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**









SHEET TITLE  
**EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS PHASE**

JOB CODE <b>MIR012-01</b>	
SHEET NUMBER <b>C720</b>	REV <b>B</b>

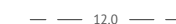





**LEGEND - PROPOSED**

-  PROPOSED STORMWATER
-  100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING
-  100mm THICK TOPSOIL AND TURF
-  50mm THICK TOPSOIL DRILL SEEDING
-  NO TOPSOIL AND POLYMER SPRAY
-  GEOFABRIC LINING (TO BATTER)
-  CLEARING AREA STABILISATION. CONTRACTOR TO ENSURE AREA IS ADEQUATELY STABILISED FOLLOWING DISTURBANCE INCLUDING FILLING OF ROOT BALL DEPRESSIONS TO ELIMINATE WATER PONDING.
-  12.0 FINISHED MAJOR CONTOURS (0.50m)
-  FINISHED MINOR CONTOURS (0.25m)

**LEGEND - EXISTING**


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

**SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE**

- STEP 6 PAVEMENT CONSTRUCTION MAINTAIN SILT FENCES, AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION.
  - STEP 7 MAINTENANCE PERIOD MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.
  - STEP 8 ONCE STABILIZED GRASS COVER HAS OCCURRED REMOVE SEDIMENT BASIN IN ACCORDANCE WITH NOTES ON DRAWING C730.
  - STEP 9 REMOVE CONSTRUCTION ENTRANCES.
- ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

- NOTES**
- REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
  - ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
  - CONTRACTOR TO ENSURE THAT GRASS SEEDING AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.

**TURFING AND TOPSOIL NOTE**  
 CONTRACTOR SHALL RESPREAD AMELIORATED TOPSOIL (AMELIORATION REQUIREMENTS AS DIRECTED BY SUPERINTENDENT) TO VERGES AT A THICKNESS OF 100mm. TURFING TO VERGES WITHIN PRECINCT 12.1 WORKS SHALL BE UNDERTAKEN BY THE CIVIL CONTRACTOR.


I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.  
  
 CHRIS HUTTON CPESC NO. 6241

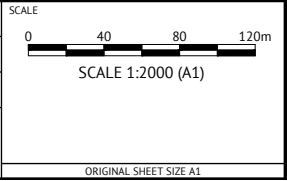
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 PROJECT DIRECTOR  
  
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CLIENT	<b>MIRVAC GROUP</b>	JOB CODE	<b>MIR012-01</b>
PROJECT	<b>EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT</b>	SHEET NUMBER	<b>C730</b>
LOCATION	<b>TEVIOT ROAD, GREENBANK</b>	REV	<b>B</b>
SHEET TITLE	<b>EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE</b>		

**EROSION & SEDIMENT CONTROL NOTES**

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

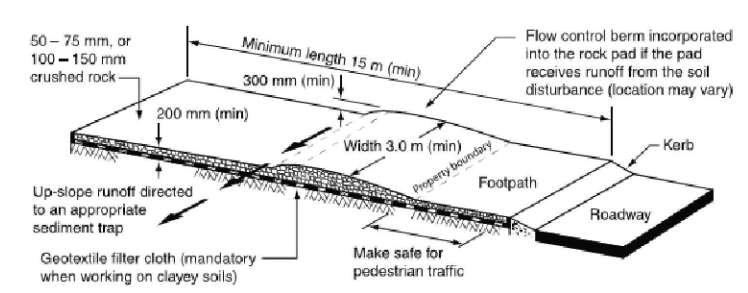
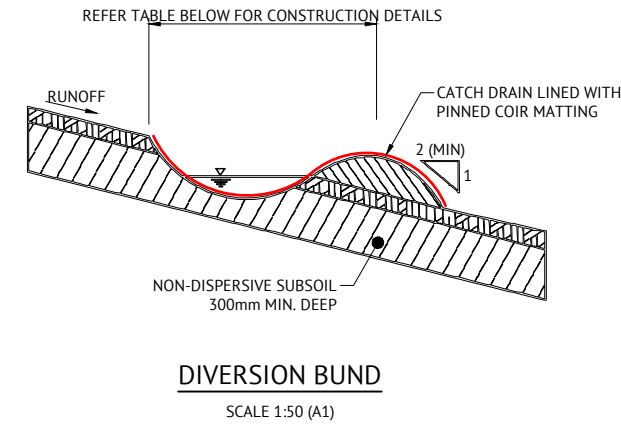
RECOMMENDED DISCHARGE STANDARD FOR DEWATERING OPERATIONS	
SITE CONDITIONS	DISCHARGE WATER QUALITY STANDARD
POST-STORM DEWATERING OF WET SEDIMENT BASINS	90 PERCENTILE TOTAL SUSPENDED SOLIDS (TSS) CONCENTRATION NOT EXCEEDING 50mg/L pH 6.5 TO 8.5

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

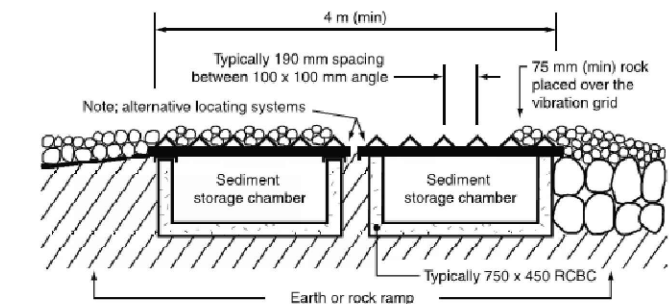
- INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
- STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
- STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
- ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS,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

**DIVERSION BUND DETAILS**

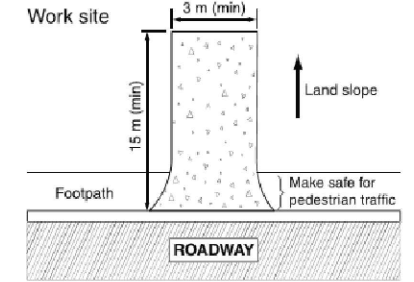
DRAIN ID	DRAIN TYPE	SLOPE	LINING	BASE WIDTH (m)	TOP WIDTH (m)	DEPTH INCLUDING FREEBOARD (m)	SIDE SLOPE LENGTH	VELOCITY (m/s)
DWD-01	TYPE C	3.00%	COIR TMC7	2.000	6.200	0.700	3.000	2.800
DWD-02	TYPE C	8.00%	COIR TMC7	2.000	5.000	0.500	3.000	2.600



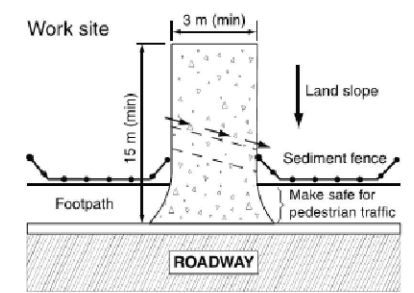
**(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)**



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



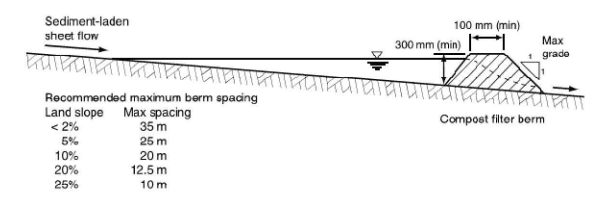
**(b) Rock pad sloping away from road**



**(d) Rock pad sloping towards the road**

**CONSTRUCTION ENTRANCE DETAIL**

- MATERIALS**
- COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.
- WELL-DECOMPOSED 100% ORGANIC MATTER PRODUCED BY CONTROLLED AEROBIC (BIOLOGICAL) DECOMPOSITION.
  - MAXIMUM OF 1% OF INERT MATERIAL.
  - MAXIMUM SOLUBLE SALT CONCENTRATION OF 5dS/m, AND pH RANGE OF 5.0 TO 8.5.
  - MOISTURE CONTENT OF 30 TO 50% PRIOR TO APPLICATION.
- INSTALLATION**
- 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.
  - WHEN SELECTING THE LOCATION OF A COMPOST FILTER BERM, TO THE MAXIMUM DEGREE PRACTICABLE, ENSURE THE BERM IS LOCATED:
    - TOTALLY WITHIN THE PROPERTY BOUNDARIES;
    - ALONG A LINE OF CONSTANT ELEVATION (PREFERRED, BUT NOT ALWAYS PRACTICAL);
    - AT LEAST 1m, IDEALLY 3m, FROM THE TOE OF A FILL EMBANKMENT;
    - AWAY FROM AREAS OF CONCENTRATED FLOW.
  - ENSURE THE BERM IS INSTALLED IN A MANNER THAT AVOIDS THE
- REMOVAL (IF REQUIRED)**
- WHEN DISTURBED AREAS UP-SLOPE OF THE BERM ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE BERM MAYBE REMOVED.
  - REMOVE ANY COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
  - REHABILITATE/REVEGETATE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.
- MAINTENANCE**
- DURING THE CONSTRUCTION PERIOD, INSPECT THE BERM AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.
  - REPAIR OR REPLACE ANY DAMAGED SECTIONS.
  - WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.
  - REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 100mm OR 1/3 THE HEIGHT OF THE BERM.
  - DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- CONCENTRATION OF FLOW ALONG THE BERM, OR THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE BERM.**
- ENSURE THE BERM HAS BEEN PLACED ALONG THE CONTOUR SUCH THAT WATER WILL POOL EVENLY ALONG THE LENGTH OF THE BERM.
  - ENSURE BOTH ENDS OF THE BERM ARE ADEQUATELY TURNED UP THE SLOPE TO PREVENT FLOW BYPASSING PRIOR TO WATER PASSING OVER THE BERM.
  - ENSURE 100% CONTACT WITH THE SOIL SURFACE.
  - WHERE SPECIFIED, TAKE APPROPRIATE STEPS TO VEGETATE THE BERM.



**Figure 1 - Typical profile of a compost filter berm**

**MULCH BUND DETAIL**

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*C. Hutton*  
CHRIS HUTTON CPESC NO. 6241

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11/08/2020	A				APPROVAL ISSUE	MM	PB	PROJECT
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK	PB	LOCATION	<b>TEVIOT ROAD, GREENBANK</b>	REV	<b>A</b>
DATE	REV	DESCRIPTION	REC	APP	SHEET TITLE	<b>EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2</b>		

## ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	<ul style="list-style-type: none"> <li>• OVERALL RESPONSIBILITY OF ESC IMPLEMENTATION</li> <li>• NOTIFY THE ENVIRONMENTAL MANAGER IMMEDIATELY OF ANY NON-COMPLIANCE WITH ESCP</li> <li>• ENSURE THE PROMPT IMPLEMENTATION OF MEASURES TO MITIGATE EROSION AND SEDIMENT GENERATION</li> </ul>
SITE SUPERVISOR / FOREMEN	<ul style="list-style-type: none"> <li>• MONITOR DAILY RAINFALL</li> <li>• NOTIFY ENVIRONMENTAL ADVISOR/CONSULTANT WHEN RUNOFF GENERATING RAINFALL OCCURS IN THE PREVIOUS 24 HOURS</li> <li>• MAINTAIN CURRENT RECORDS OF RAINFALL, STORAGE VOLUMES, WATER QUALITY, TREATMENT PRACTICES, DISCHARGE VOLUMES (AS APPROPRIATE)</li> <li>• INSTALLATION AND MAINTENANCE OF ESC</li> </ul>
ENVIRONMENTAL MANAGER	<ul style="list-style-type: none"> <li>• PROVIDE DESIGN INFORMATION AS REQUIRED</li> <li>• CONDUCT IN-SITU MONITORING (AS REQUIRED)</li> <li>• COLLECT AND SUBMIT SAMPLES TO LABORATORY (AS REQUIRED)</li> <li>• COLLATE RESULTS AND PREPARE REPORTS (AS REQUIRED)</li> <li>• CONDUCT SITE INSPECTIONS AND AUDITS (AS REQUIRED)</li> <li>• INSPECT ESC INSTALLATION AND MAINTENANCE</li> <li>• INSPECT OFFSITE IMPACTS AND MANAGEMENT</li> <li>• PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)</li> </ul>
ALL PERSONNEL	<ul style="list-style-type: none"> <li>• 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</li> </ul>

## CORRECTIVE AND PREVENTATIVE ACTION

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

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

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

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

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CHRIS HUTTON CPESC NO. 6241

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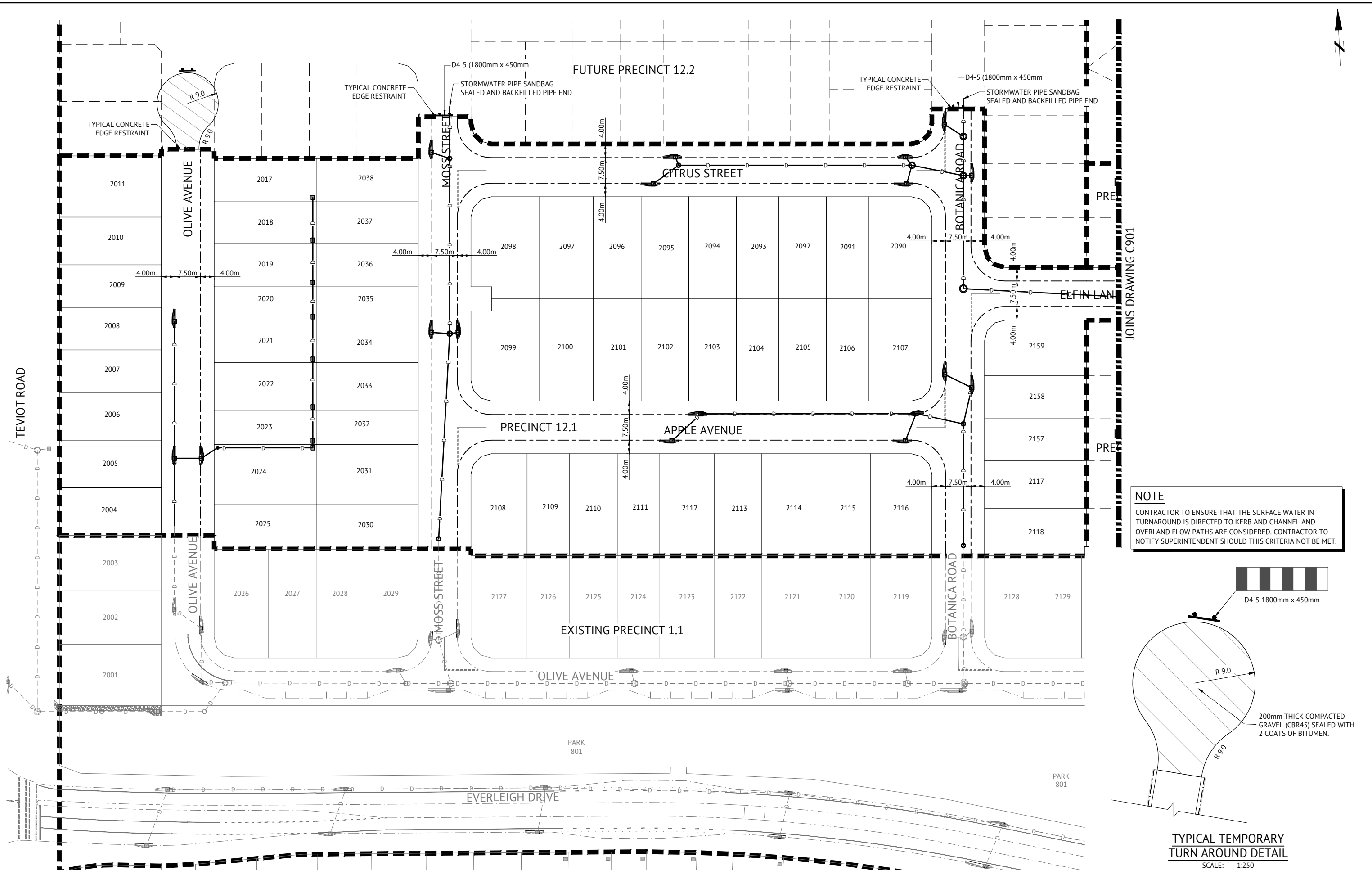
SCALE  
  
ORIGINAL SHEET SIZE A1

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PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2**

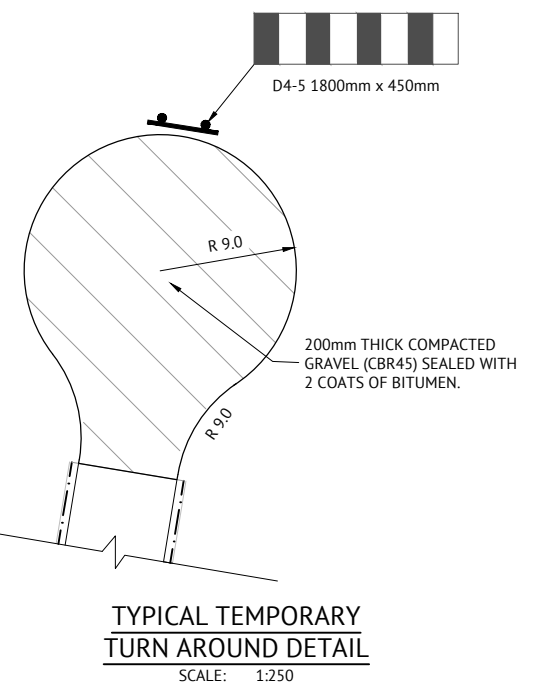
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**MIR012-01**  
SHEET NUMBER  
**C741**  
REV  
**A**

DATE	REV	DESCRIPTION	REC	APP
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REVISIONS



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



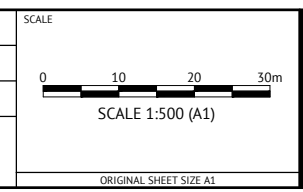
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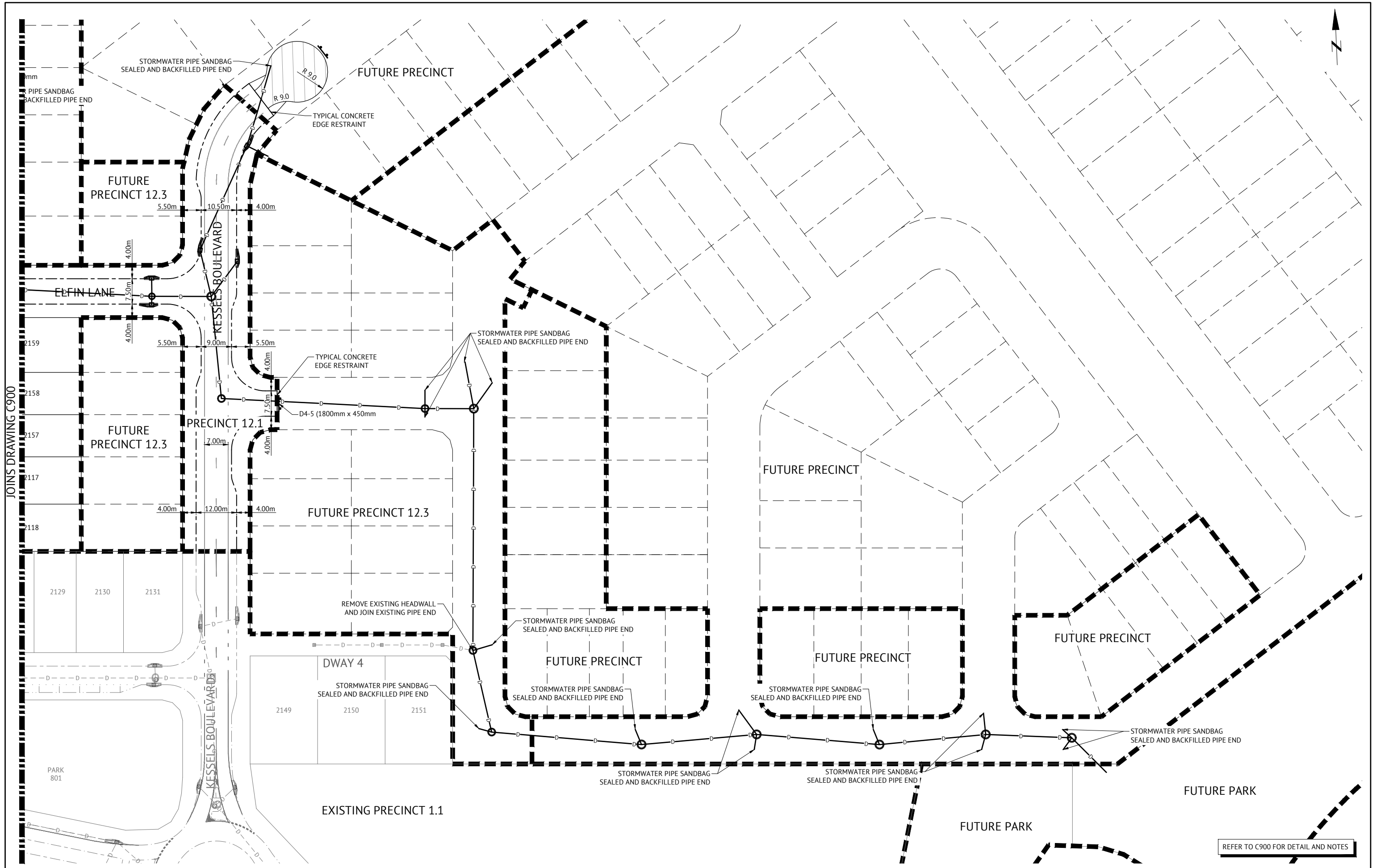
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 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

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



CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2**

JOB CODE  
**MIR012-01**  
 SHEET NUMBER  
**C900**  
 REV  
**A**



JOINS DRAWING C900

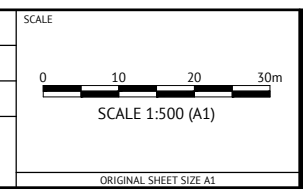
REFER TO C900 FOR DETAIL AND NOTES

<b>FOR CONSTRUCTION</b>			
11/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	KK PB
DATE	REV	DESCRIPTION	REC APP
REVISIONS			



**BRISBANE OFFICE**  
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**MIRVAC GROUP**

PROJECT  
**EVERLEIGH PRECINCT 12.1 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2**

JOB CODE		<b>MIR012-01</b>
SHEET NUMBER	REV	
<b>C901</b>	<b>A</b>	