

PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

420 SOUTH PINE ROAD - EVERTON PARK

FOR MIRVAC QUEENSLAND PTY LTD

GENERAL NOTES

- ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL NEW WORK AND MATERIALS SHALL COMPLY WITH THE PROJECT DRAWING SPECIFICATION AND 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 6:30am to 6:30pm
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 AND 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

- THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).
- SETOUT SHALL BE MADE BY DIGITAL ENGINEERING DATA AND CONFIRMED ONSITE PRIOR TO CONSTRUCTION BY A SURVEYOR.



LOCALITY PLAN

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

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C001	COVER SHEET LOCALITY PLAN & DRAWING SCHEDULE
C002	SAFETY IN DESIGN SHEET
C003	STAGING PLAN
C100	ROADWORKS AND DRAINAGE LAYOUT PLAN
C101	ASHMORE STREET GENERAL ARRANGEMENT PLAN
C200	BULK EARTHWORKS LAYOUT PLAN - PHASE A
C201	BULK EARTHWORKS AND FINISHED SURFACE SECTIONS - PHASE A
C202	BULK EARTHWORKS LAYOUT PLAN - PHASE B - SHEET 1
C203	BULK EARTHWORKS LAYOUT PLAN - PHASE B - SHEET 2
C204	BULK EARTHWORKS AND FINISHED SURFACE SECTIONS - PHASE B
C205	BULK EARTHWORKS LAYOUT PLAN - PHASE C
C206	BULK EARTHWORKS AND FINISHED SURFACE SECTIONS - PHASE C
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2
C212	TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 1
C213	TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 2
C214	TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 3
C220	RETAINING WALL SETOUT FOR LOT 1 LAYOUT PLAN
C300	ROADWORKS NOTES AND DETAILS
C310	ROAD LONGITUDINAL SECTIONS
C311	ASHMORE STREET CROSS SECTIONS
C312	ROAD 1 AND DRIVEWAY 1 LONG AND CROSS SECTIONS
C320	INTERSECTION DETAILS PLAN
C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT
C331	EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1
C332	EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2
C333	EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 3
C400	STORMWATER DRAINAGE CATCHMENT PLAN
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS
C440	STORMWATER CALCULATIONS 10% AEP STORM - SHEET 1
C441	STORMWATER CALCULATIONS 10% AEP STORM - SHEET 2
C442	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1
C443	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 2
C700	EROSION AND SEDIMENT CONTROL - CLEAR AND GRUB PHASE
C710	EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE
C720	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE
C730	EROSION SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 5
C731	EROSION SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 5
C732	EROSION SEDIMENT CONTROL NOTES AND DETAILS - SHEET 3 OF 5
C733	EROSION SEDIMENT CONTROL NOTES AND DETAILS - SHEET 4 OF 5
C734	EROSION SEDIMENT CONTROL NOTES AND DETAILS - SHEET 5 OF 5
C740	EROSION AND SEDIMENT CONTROL - EROSION RISK ASSESSMENT
C900	TRAFFIC FUNCTIONAL

SURVEY ORIGIN

TBM - PM106537
R.L - 29.906m A.H.D

SITE AREA

8,116m²

REAL PROPERTY DESCRIPTION

LOTS 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 ON RP72156 AND LOT 100 ON SP 155725

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.

FOR CONSTRUCTION

ENGINEERING CERTIFICATION	DATE	JOB CODE	SHEET NUMBER	REVISION
PATRICK BRADY	RPEQ 7112	17BNE-0071	C001	D

Premise

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:- - FLOODING OF KEDRON BROOK	HIGH	THE HAZARD HAS BEEN REDUCED/ELIMINATED BY :- - PROVIDING LOT DESIGN HIGHER THAN Q100 FLOOD LEVEL IN ACCORDANCE WITH BCC FLOOD PLANNING POLICIES AND STANDARDS	LOW
D2	EMBANKMENT AND SLOPE STABILITY HAZARD	ALLOTMENTS HAVE BEEN BENCHED FOR HOUSE PADS WHICH HAVE CREATED STEEP EMBANKMENTS WHICH WILL HAVE A LONG TERM SLOPE STABILITY ISSUE AND THE EMBANKMENTS ARE GREATER THAN 1M HIGH.	HIGH	A RETAINING WALL IS TO BE CONSTRUCTED ALONG THE BOUNDARY TO ELIMINATE THE UNSTABLE SLOPE HAZARD AND THE CONTRACTOR IS TO BE ADVISED TO MITIGATE THE HEIGHT HAZARD DURING CONSTRUCTION.	MODERATE
D3	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 STRUCTURE 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.	MODERATE
D4	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.	MODERATE
D5	EXISTING STRUCTURE HAZARD	AN EXISTING STRUCTURE IS LOCATED IN CLOSE PROXIMITY TO THE NEW STRUCTURE .	MODERATE	THE DESIGN OF THE NEW STRUCTURE HAS ENSURED THE EXISTING STRUCTURE HAZARD IS NOT COMPROMISED BY - MAINTAINING SUFFICIENT DISTANCE - RELOCATING EXISTING SEWER MAINS TO NEW ALIGNMENT IN LOT 32 VERGE	LOW
D6	EXISTING WETLAND	THE TOP OF BANK OF EXISTING WETLAND HAS BEEN LOCATED BY SURVEY AND THERE IS NO ACCESS OR CLEARING AREA ALLOWED WITHIN THIS AREA.	MODERATE	THE SURVEYED TOP OF BANK IS INDICATED ON THE DRAWINGS AND THE STRUCTURE HAS BEEN DESIGNED TO AVOID THESE AREAS UNLESS ABSOLUTELY NECESSARY FOR PUBLIC INFRASTRUCTURE. THE CONTRACTOR WILL NEED TO TAKE ALL NECESSARY MEASURES TO ENSURE NO CLEARING OR MACHINERY ENTERS BEYOND THE EXISTING WETLAND AREA EXTENT.	LOW

DESIGN HAZARD NOTES:

- PREMISE AUSTRALIA PTY LTD (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 THE PREMISE 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.

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.

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 INIURIES, OR ONSET OF SEVERE OR LIFE THREATENING HEALTH EFFECT TO SINGLE PERSON ONSITE. MULTIPLE PERSONS WITH ONSET OF IRREVERSIBLE HEALTH EFFECTS. PERMANENT INIUR TO PERSON INSITE.	MAJOR FINANCIAL OR TIME LOSS
3 - MODERATE	MEDICAL TREATMENT REQUIRED. IRREVERSIBLE HEALTH EFFECT TO A SINGLE PERSON. MULTIPLE PERSONS ONSITE WITH REVERSIBLE HEALTH EFFECTS.	HIGH FINANCIAL OR TIME LOSS
2 - MINOR	FIRST AID, SINGLE OR MULTIPLE INIURIES AMONGST PERSONS ONSITE. SINGLE PERSON ONSITE WITH MODERATE SHORT TERM REVERSIBLE HEALTH EFFECTS.	MEDIUM FINANCIAL OR TIME LOSS
1 - INSIGNIFICANT	NO INIURIES, OVER EXPOSURE TO A SINGLE PERSON ONSITE, BUT NO REPORTED HEALTH EFFECTS.	LOW FINANCIAL OR TIME LOSS

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 EVEN T <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

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

RISK ANALYSIS MATRIX

		CONSEQUENCE				
		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

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	PEDESTRIAN ACCESS HAZARD	WORK WITHIN OR ADJACENT TO AREAS WHICH THE PUBLIC REQUIRES PEDESTRIAN ACCESS MUST HAVE APPROPRIATE BARRICADES AND SIGNAGE ERECTED AT ALL TIMES.
C5	POTENTIAL VEHICLE HAZARD	SITE PERSONNEL SHALL BE ADVISED OF THE POTENTIAL HAZARDS AND THE APPROPRIATE PROCEDURES FOR WORKING ADJACENT TO OPERATING PUBLIC ROADS. APPROPRIATE SAFETY CLOTHING SHALL BE WORN AND THE REQUIRED SIGNAGE SHALL BE ERECTED. THE WORKS SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF THE VEHICLE OCCUPANTS OR THE SITE PERSONNEL.
C6	DEMOLITION AND CLEARING HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE DEMOLITION AND CLEARING WORKS FOR THE PROJECT AT ALL TIMES. THE CONTRACTORS WORK METHOD STATEMENT SHALL ALSO GIVE CONSIDERATION TO FALLING DEBRIS, COLLAPSE AND DANGEROUS AIRBORNE AGENTS.
C7	TRAFFIC MANAGEMENT HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL DEVELOP A TRAFFIC MANAGEMENT PLAN (TMP) FOR THE PROJECT TO ESTABLISH APPROPRIATE CONTROLS IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL.

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	NTT REC	JCS APP
26/06/19	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
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
T.ZETTL
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

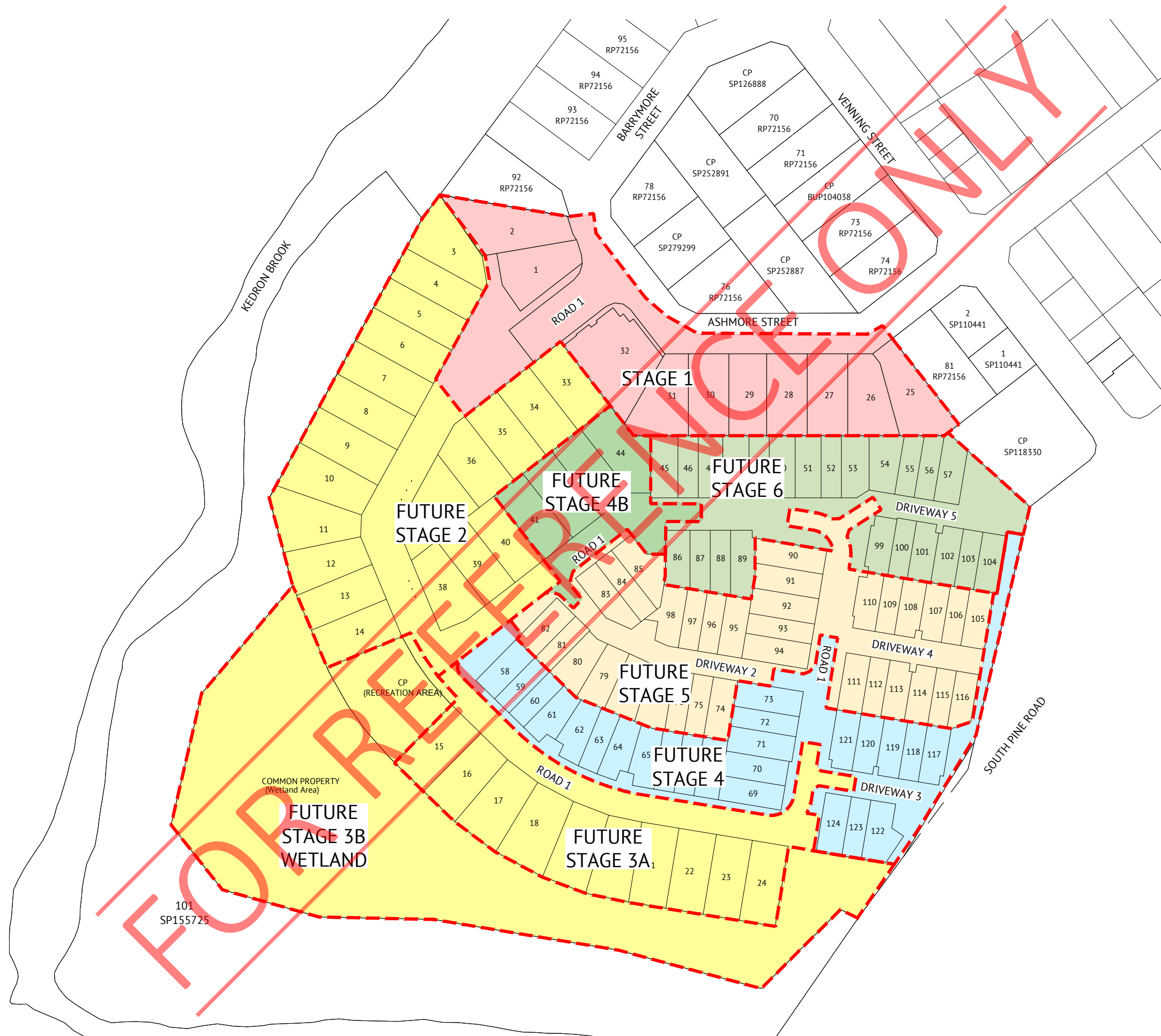
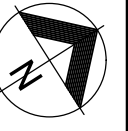
PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
SAFETY IN DESIGN SHEET

JOB CODE
17BNE-0071

SHEET NUMBER
C002
REV
A



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	EL	PB
12/10/20	C	LOT 1 BOUNDARY TRUNCATION AMENDED		EL	PB
28/11/19	B	FUTURE STAGE 4B ADDED TO STAGING PLAN		EL	JCS
26/06/19	A	ORIGINAL ISSUE		NTT	JCS
				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
 E.LONGMIRE
 CHECKED
 R.BARGER
 PROJECT MANAGER
 R.LLEWELYN
 ENGINEERING CERTIFICATION
 PATRICK BRADY RPEQ 7112

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

CLIENT

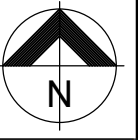
MIRVAC QUEENSLAND PTY LTD

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
 LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
 SHEET TITLE **STAGING PLAN**



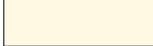


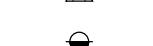

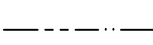
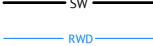
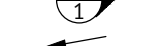

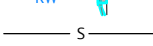




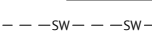
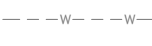
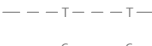


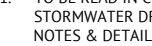
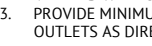
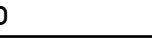

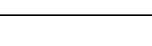
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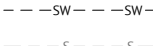
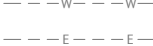
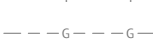
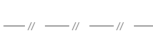
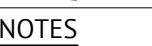
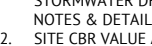

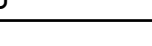

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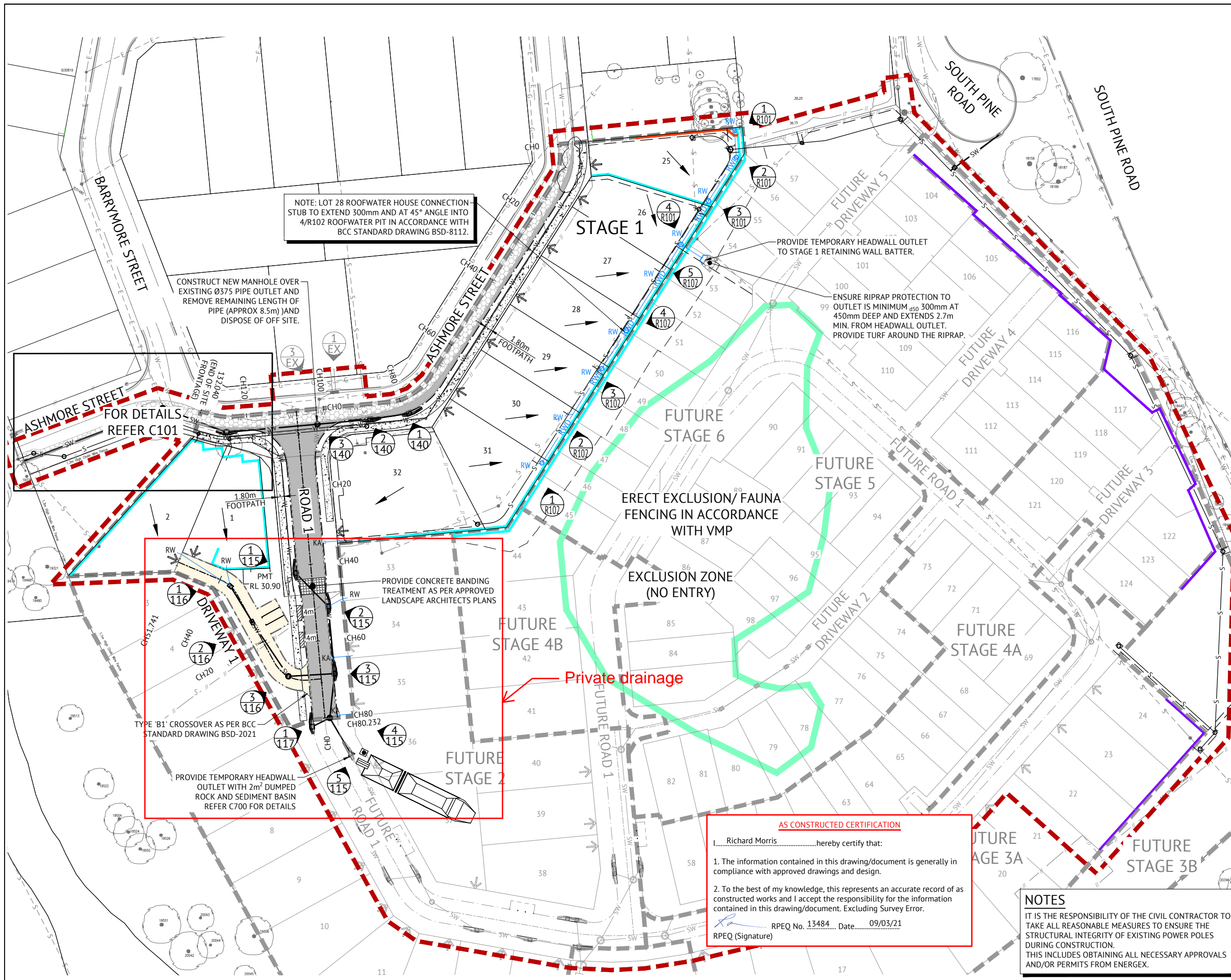


LEGEND - PROPOSED

-  EXISTING PAVEMENT
- PROFILE AND RE-SURFACE A.C.
-  PAVEMENT WIDENING AND
ENTRY ROAD PAVEMENT
-  CONCRETE PAVEMENT
REFER C320 FOR DRIVEWAY DETAILS
-  1.8m WIDE CONCRETE FOOTPATH
REFER BCC STD DWG BSD-5201
-  MIN. 1m WIDE CONCRETE BIN PAD
(AND LENGTH).
BIN PAD TO EXTEND FROM BACK OF
KERB TO CONCRETE FOOTPATH.
-  KERB RAMP
REFER BCC STD DWG BSD-5231
-  KERB TRANSITION
-  'TYPE D' MOUNTABLE KERB AND CHANNEL
REFER BCC STD DWG BSD-2001
-  'TYPE E' BARRIER KERB AND CHANNEL
REFER BCC STD DWG BSD-2001
-  'EDGE RESTRAINT 230 x 280' KERB
REFER BCC STD DWG BSD-001
-  STORMWATER
-  ROOFWATER
-  STORMWATER STRUCTURE No.
-  STORMWATER FALL ARROW
-  KACEY ROOFWATER DRAINAGE KERB
ADAPTORS (ROOFWATER OUTLET)
-  100mm uPVC ROOFWATER TO GULLY PIT
-  GRAVITY SEWER
-  WATER
-  CONCRETE SLEEPER RETAINING WALL
-  MASONRY RETAINING WALL
-  INTEGRATED RETAINING AND NOISE WALL
-  DRIVEWAY LOCATION
-  STAGE BOUNDARY
-  EXISTING WETLAND BOUNDARY
-  EXCLUSION ZONE
-  WORKS BOUNDARY

LEGEND - EXISTING

-  STORMWATER
-  GRAVITY SEWER
-  WATER
-  ELECTRICAL
-  TELSTRA
-  GAS
-  BATTER
-  FENCE
-  TREE



NOTE: LOT 28 ROOFWATER HOUSE CONNECTION STUB TO EXTEND 300mm AND AT 45° ANGLE INTO 4/R102 ROOFWATER PIT IN ACCORDANCE WITH BCC STANDARD DRAWING BSD-8112.

CONSTRUCT NEW MANHOLE OVER EXISTING Ø375 PIPE OUTLET AND REMOVE REMAINING LENGTH OF PIPE (APPROX 8.5m) AND DISPOSE OF OFF SITE.

FOR DETAILS REFER C101

TYPE 'B1' CROSSOVER AS PER BCC STANDARD DRAWING BSD-2021

PROVIDE TEMPORARY HEADWALL OUTLET WITH 2m² DUMPED ROCK AND SEDIMENT BASIN REFER C700 FOR DETAILS

PROVIDE CONCRETE BANDING TREATMENT AS PER APPROVED LANDSCAPE ARCHITECTS PLANS

ERECT EXCLUSION/ FAUNA FENCING IN ACCORDANCE WITH VMP

EXCLUSION ZONE (NO ENTRY)

Private drainage

PROVIDE TEMPORARY HEADWALL OUTLET TO STAGE 1 RETAINING WALL BATTER.

ENSURE RIPRAP PROTECTION TO OUTLET IS MINIMUM 450 300mm AT 450mm DEEP AND EXTENDS 2.7m MIN. FROM HEADWALL OUTLET. PROVIDE TURF AROUND THE RIPRAP.

AS CONSTRUCTED CERTIFICATION
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 RPEQ (Signature) RPEQ No. 13484 Date: 09/03/21

NOTES
 IT IS THE RESPONSIBILITY OF THE CIVIL CONTRACTOR TO TAKE ALL REASONABLE MEASURES TO ENSURE THE STRUCTURAL INTEGRITY OF EXISTING POWER POLES DURING CONSTRUCTION. THIS INCLUDES OBTAINING ALL NECESSARY APPROVALS AND/OR PERMITS FROM ENERGEX.

NOTES
 1. TO BE READ IN CONJUNCTION WITH DRAWING C001, STORMWATER DRAINAGE LAYOUT PLANS, LONG SECTIONS, NOTES & DETAILS.
 2. SITE CBR VALUE AND PAVEMENT DESIGN DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
 3. PROVIDE MINIMUM 5m² DUMP ROCK AT ALL STORMWATER OUTLETS AS DIRECTED ON SITE.

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISED BY	APP
12/10/20	F	LOT 1 BOUNDARY TRUNCATION AMENDED	EL	PB
25/08/20	E	MINOR NOTE AMENDMENTS AS PER BCC CHANGE APPLICATION 25/02/2020 AND LAYOUT BASE UPDATED	EL	PB
14/05/20	D	AMENDED LOCATION OF ROOFWATER PIT 4/R102 TO CLEAR SEWER HOUSE CONNECTION ON LOT 28	EL	PB
09/03/21	H	AS CONSTRUCTED	BA	RIM
13/11/20	G	ADDED BIN PADS	RL	PB
			REC	APP

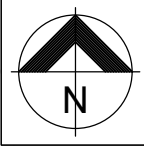
Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED: E.LONGMIRE
 CHECKED: R.BARGER
 PROJECT MANAGER: R.LLEWELYN
 ENGINEERING CERTIFICATION
 PATRICK BRADY RPEQ 7112

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

CLIENT: MIRVAC QUEENSLAND PTY LTD
 PROJECT: PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
 LOCATION: 420 SOUTH PINE ROAD - EVERTON PARK
 SHEET TITLE: ROADWORKS AND DRAINAGE LAYOUT PLAN

JOB CODE: 17BNE-0071
 SHEET NUMBER: C100
 REV: H

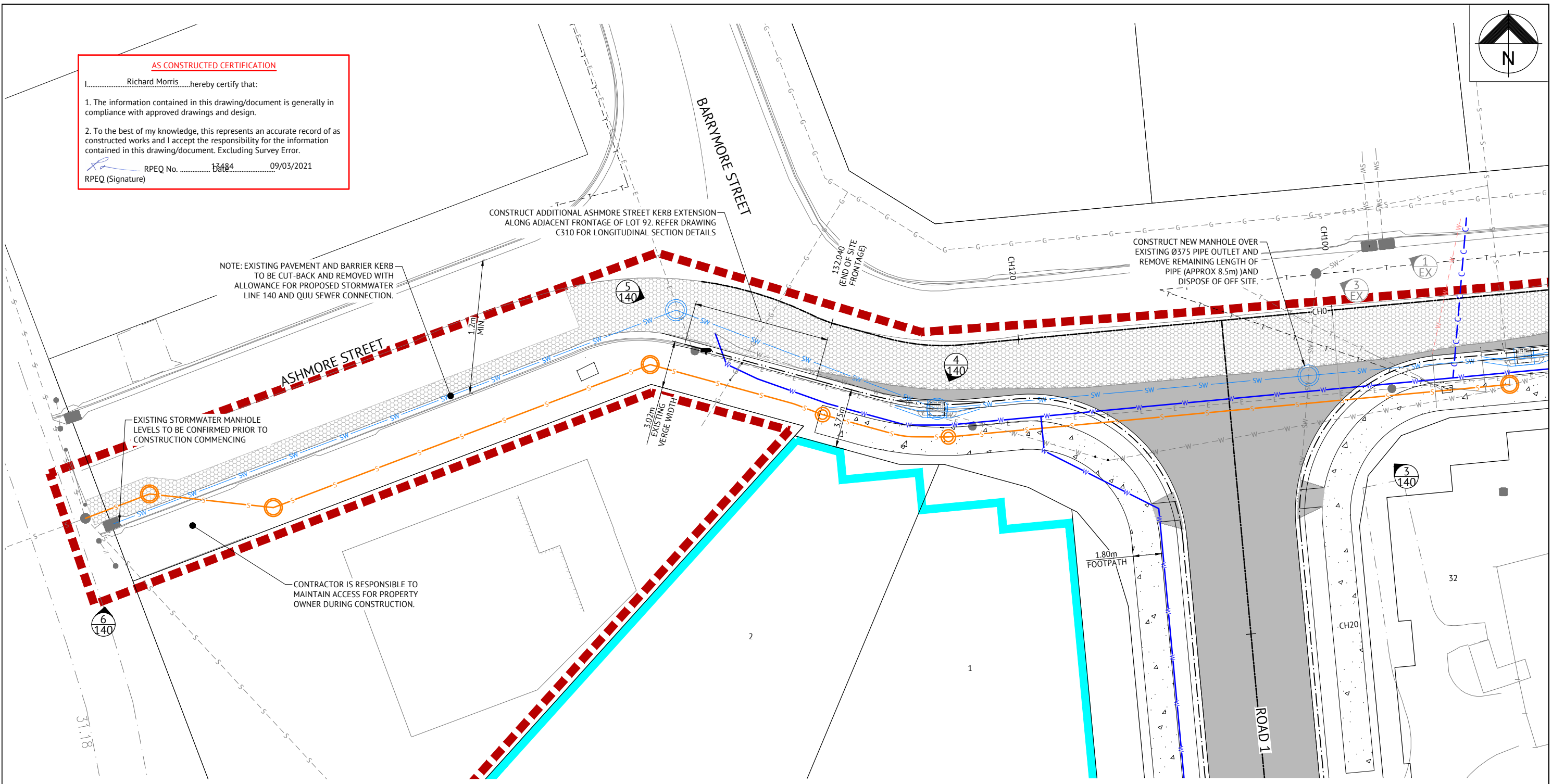


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RPEQ No. 13484 Date 09/03/2021
 RPEQ (Signature)



LEGEND - PROPOSED

- EXISTING PAVEMENT - PROFILE AND RE-SURFACE A.C.
- PAVEMENT WIDENING AND ENTRY ROAD PAVEMENT
- 1.8m WIDE CONCRETE FOOTPATH REFER BCC STD DWG BSD-5201
- KERB RAMP REFER BCC STD DWG BSD-5231
- KERB TRANSITION
- 'TYPE D' MOUNTABLE KERB AND CHANNEL REFER BCC STD DWG BSD-2001
- 'TYPE E' BARRIER KERB AND CHANNEL REFER BCC STD DWG BSD-2001
- STORMWATER
- ROOFWATER
- STORMWATER STRUCTURE No.
- STORMWATER FALL ARROW
- KACEY ROOFWATER DRAINAGE KERB ADAPTORS (ROOFWATER OUTLET)
- 100mm uPVC ROOFWATER TO GULLY PIT

LEGEND - EXISTING

- STORMWATER
- GRAVITY SEWER
- WATER
- ELECTRICAL
- TELSTRA
- GAS
- BATTER
- FENCE
- TREE

NOTES

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NOTES

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- SITE CBR VALUE AND PAVEMENT DESIGN DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION. PROVIDE MINIMUM 5m² DUMP ROCK AT ALL STORMWATER OUTLETS AS DIRECTED ON SITE.

AS CONSTRUCTED

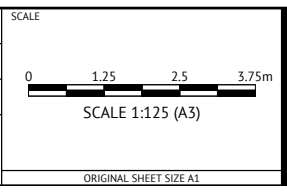
DATE	REV	DESCRIPTION	REC	APP
09/03/21	C	AS CONSTRUCTED	BA	RIM
12/10/20	B	LOT 1 BOUNDARY TRUNCATION AMENDED	EL	PB
25/08/20	A	ORIGINAL ISSUE	EL	JCS

Premise

BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
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DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
R.LLEWELYN
 ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

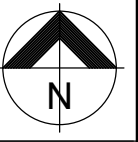
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **ASHMORE STREET GENERAL ARRANGEMENT PLAN**

JOB CODE **17BNE-0071**

SHEET NUMBER **C101**

REV **C**



**WORKS ON LOT 81 RP72156
AS PART OF A SEPARATE
APPLICATION**

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- BUILDING PAD LINES
- PAD LEVEL
- RETAINING WALL HEIGHT
- CONCRETE SLEEPER RETAINING WALL. TOP AND BASE OF WALL LEVELS AS NOTED. FOR SECTIONS REFER BULK EARTHWORKS NOTES AND DETAILS.
- MASONRY RETAINING WALL. TOP AND BASE OF WALL LEVELS AS NOTED. FOR SECTIONS REFER BULK EARTHWORKS NOTES AND DETAILS.
- INTEGRATED RETAINING AND NOISE WALL
- TMR RESUMPTION BOUNDARY EXTENT
- WORKS BOUNDARY
- EXISTING WETLAND BOUNDARY EXCLUSION ZONE
- PROPOSED TEMPORARY WETLAND DIVERSION DRAIN

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.20m)
- STORMWATER
- GRAVITY SEWER
- VACUUM SEWER
- WATER
- ELECTRICITY
- TELECOMMUNICATIONS
- GAS

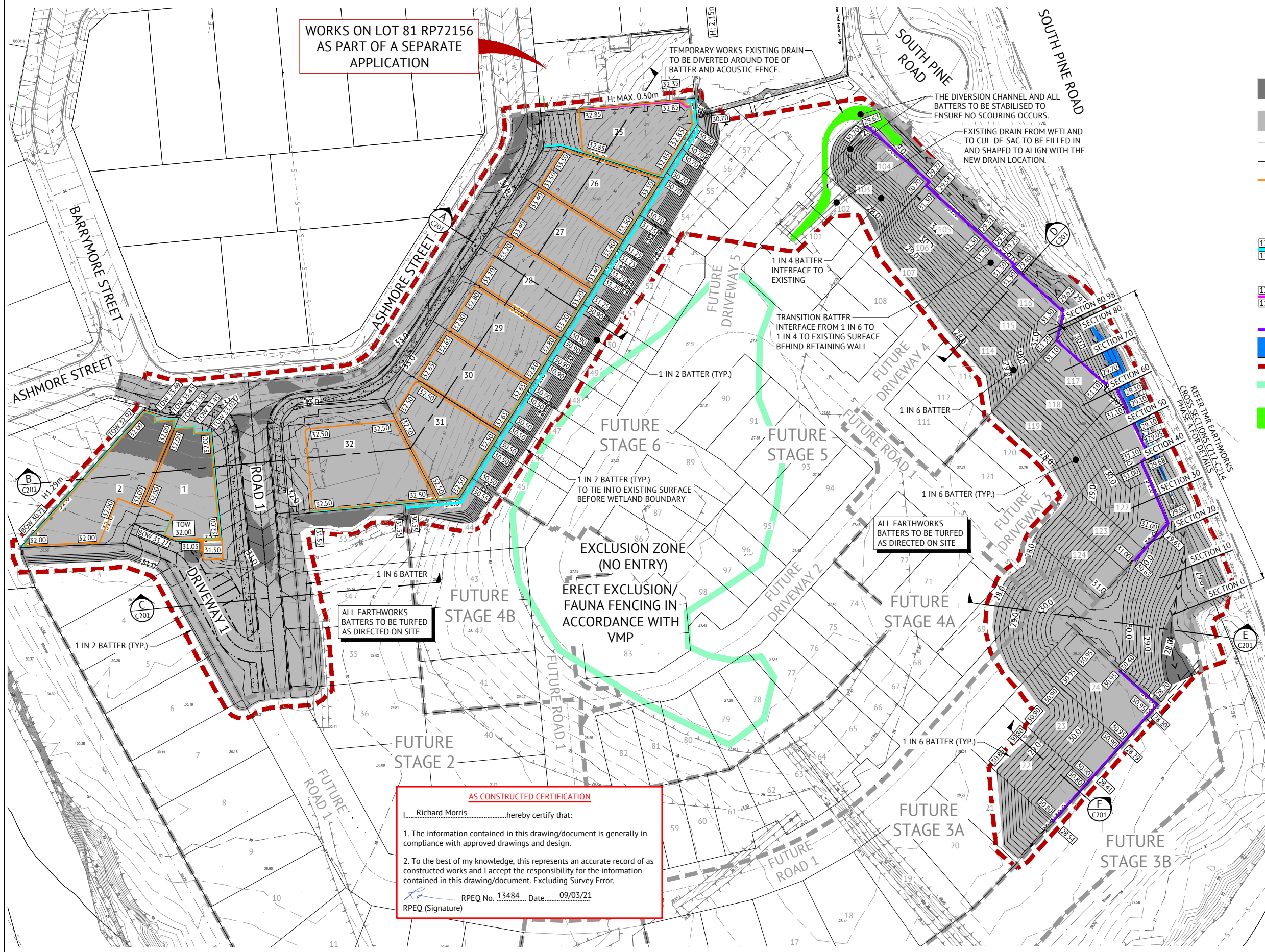
**PHASE A
EARTHWORKS VOLUMES**

CUT = -240m³
 FILL = 20,689m³
 BALANCE = +20,449m³

(* EXPORT, *+ IMPORT)

- NOTES**
- EXCLUDES BULKING AND COMPACTION FACTORS.
 - ALLOWANCE FOR MINIMUM ROAD BOX INCLUDED IN VOLUMES.

- NOTES**
- TO BE READ IN CONIUNCTION WITH DRAWING C001, BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
 - EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE.



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RPEQ No. 13484 Date: 09/03/21
 RPEQ (Signature)

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REC	APP
09/03/21	F	AS CONSTRUCTED	BA	RJM
12/10/20	E	LOT 1 BOUNDARY TRUNCATION AMENDED	EL	PB
25/08/20	D	TOP AND BOTTOM OF RETAINING WALL LEVELS ADDED AND EXCLUSION FENCING NOTE ADDED	EL	PB
07/02/20	C	TMR VERGE INTERFACE AND WALL HEIGHTS AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19	EL	JCS
28/11/19	B	EARTHWORKS AMENDED AS PER COUNCIL MINOR CHANGE APPLICATION AND DRAWING TITLE CHANGED	EL	JCS
26/06/19	A	ORIGINAL ISSUE	NTT	JCS

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BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
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DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
R.LLEWELYN
 ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

0 10 20 30m

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - PHASE A

JOB CODE
17BNE-0071

SHEET NUMBER
C200

REV
F

DATUM R.L. 26.00

1 IN 6 BATTER

DESIGN SURFACE

5.0m TYP.

FENCE LINE

2.4m INTEGRATED RETAINING AND NOISE WALL

EXISTING SURFACE

SECTION F
SCALE 1:100
C200

1 IN 6 BATTER (TYP.)

DESIGN SURFACE

X30.70

PB

X30.45

1 IN 6 BATTER (TYP.)

EXISTING SURFACE

X28.18

X28.02

X28.17

2.1%

PB

X28.30

DATUM R.L. 26.00

SECTION E
SCALE 1:100
C200

EXISTING WETLAND EXCLUSION ZONE

DESIGN SURFACE

5.0m TYP.

FENCE LINE

1.8m INTEGRATED RETAINING AND NOISE WALL

ALL EARTHWORKS BATTERS TO BE TURFED AS DIRECTED ON SITE

TRANSITION BATTER INTERFACE FROM 1 IN 6 TO 1 IN 4 TO EXISTING SURFACE BEHIND RETAINING WALL

EXISTING SURFACE

DATUM R.L. 26.00

SECTION D
SCALE 1:100
C200

DESIGN SURFACE

DRIVEWAY 1

27.3m

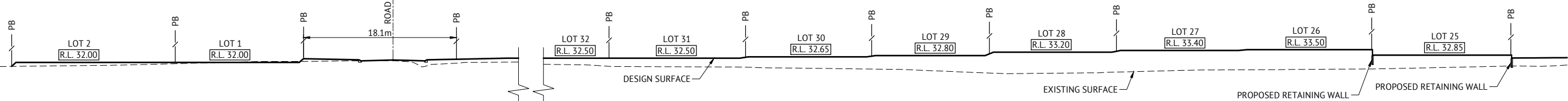
ROAD 1

1 IN 6 BATTER

EXISTING SURFACE

DATUM R.L. 27.00

SECTION C
SCALE 1:100
C200



DATUM R.L. 25.00

SECTION B
SCALE 1:250
C200

ASHMORE STREET

DESIGN SURFACE

LOT 28
R.L. 33.20

PROPOSED TERRACED RETAINING WALL REFER C211 FOR RETAINING WALL DETAILS

BATTER 1 IN 2 (TYP.) TO TIE INTO EXISTING SURFACE

FUTURE STAGE 2

EXISTING WETLAND EXCLUSION ZONE

EXISTING SURFACE

DATUM R.L. 27.00

SECTION A
SCALE 1:100
C200

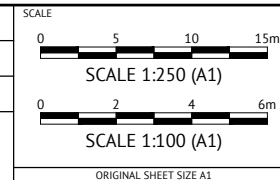
AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS	BA	RJM
09/03/21	D	AS CONSTRUCTED		EL	JCS
07/02/20	C	SECTIONS AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19		EL	JCS
28/11/19	B	EARTHWORKS DWGS RENUMBERED TO INCLUDE FUTURE WORKS AS PART OF STAGE 1 OPW RESUBMISSION		NTT	JCS
26/06/19	A	ORIGINAL ISSUE		REC	APP



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 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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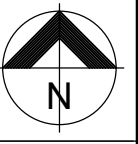
DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
T.ZETTL
 ENGINEERING CERTIFICATION
 PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**
 PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
 LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
 SHEET TITLE **BULK EARTHWORKS AND FINISHED SURFACE SECTIONS - PHASE A**

JOB CODE **17BNE-0071**
 SHEET NUMBER **C201** REV **D**

AS CONSTRUCTED CERTIFICATION
 Richard Morris hereby certify that:
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 RPEQ No. 13484 Date 09/03/21
 RPEQ (Signature)



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- BUILDING PAD LINES
- PAD LEVEL
- RETAINING WALL HEIGHT RANGE
- CONCRETE SLEEPER RETAINING WALL. TOP AND BASE OF WALL LEVELS AS NOTED. FOR SECTIONS REFER BULK EARTHWORKS NOTES AND DETAILS.
- MASONRY RETAINING WALL. TOP AND BASE OF WALL LEVELS AS NOTED. FOR SECTIONS REFER BULK EARTHWORKS NOTES AND DETAILS.
- CAST-IN-SITU CONCRETE RETAINING WALL
- EXISTING INTEGRATED RETAINING AND NOISE WALL
- WORKS BOUNDARY
- EXISTING WETLAND BOUNDARY EXCLUSION ZONE

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.20m)
- STORMWATER
- GRAVITY SEWER
- VACUUM SEWER
- WATER
- ELECTRICITY
- TELECOMMUNICATIONS
- GAS

PHASE B EARTHWORKS VOLUMES

CUT = -67m³
 FILL = 39,421m³
 BALANCE = +39,355m³

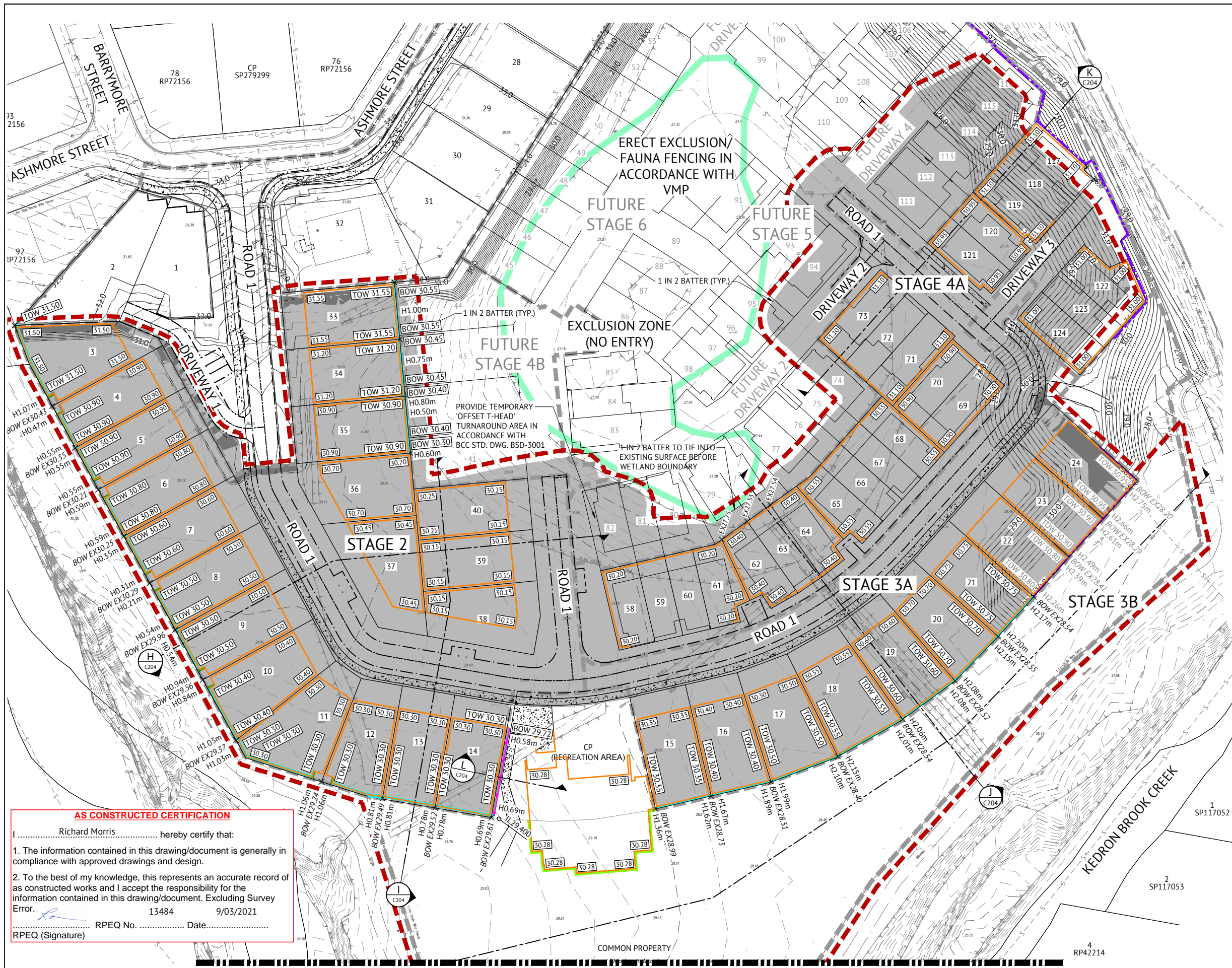
(* EXPORT, + IMPORT)

NOTES

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

NOTES

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RPEQ No. 13484 Date 9/03/2021

Richard Morris RPEQ (Signature)

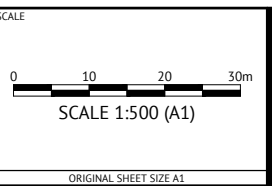
FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
25/08/20	C	TOP AND BOTTOM OF RETAINING WALL LEVELS ADDED AND EXCLUSION FENCING NOTE ADDED	EL PB
07/02/20	B	EARTHWORKS VOLUMES AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19	EL JCS
28/11/19	A	ORIGINAL ISSUE	EL JCS

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BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
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DESIGNED: E.LONGMIRE
 CHECKED: R.BARGER
 PROJECT MANAGER: R.LLEWELYN
 ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT: **MIRVAC QUEENSLAND PTY LTD**

PROJECT: **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

LOCATION: **420 SOUTH PINE ROAD - EVERTON PARK**

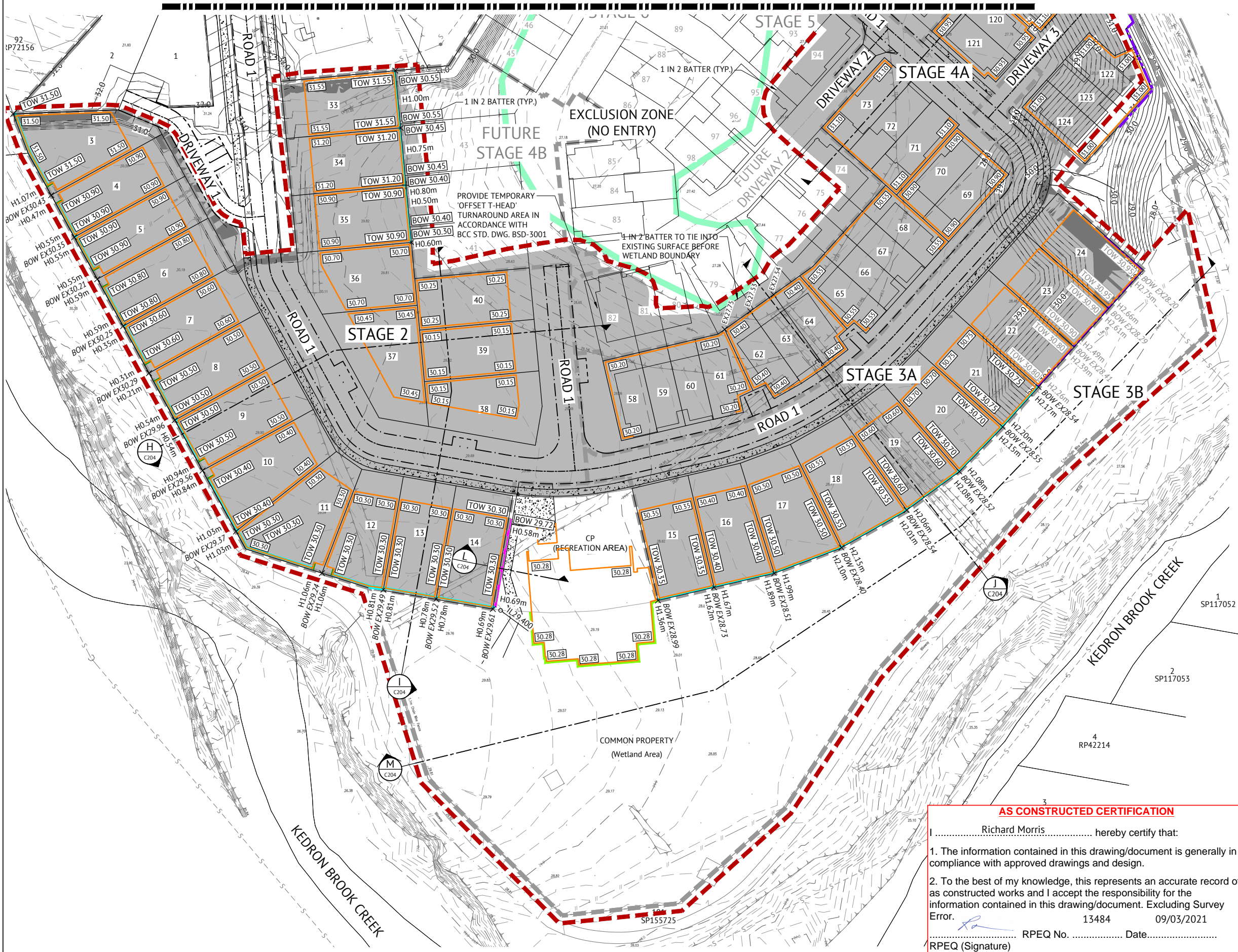
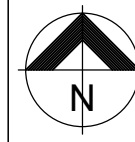
SHEET TITLE: **BULK EARTHWORKS LAYOUT PLAN - PHASE B - SHEET 1**

JOB CODE: **17BNE-0071**

SHEET NUMBER: **C202**

REV: **C**

JOINS SHEET 2



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- BUILDING PAD LINES
- PAD LEVEL
- RETAINING WALL HEIGHT RANGE
- CONCRETE SLEEPER RETAINING WALL
TOP AND BASE OF WALL LEVELS AS NOTED.
FOR SECTIONS REFER BULK EARTHWORKS
NOTES AND DETAILS.
- MASONRY RETAINING WALL
TOP AND BASE OF WALL LEVELS AS NOTED.
FOR SECTIONS REFER BULK EARTHWORKS
NOTES AND DETAILS.
- CAST-IN-SITU CONCRETE RETAINING WALL
- EXISTING INTEGRATED RETAINING
AND NOISE WALL
- WORKS BOUNDARY
- EXISTING WETLAND BOUNDARY
EXCLUSION ZONE

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.20m)
- STORMWATER
- GRAVITY SEWER
- VACUUM SEWER
- WATER
- ELECTRICITY
- TELECOMMUNICATIONS
- GAS

**PHASE B
EARTHWORKS VOLUMES**

CUT = -67m³
 FILL = 39,421m³
 BALANCE = +39,355m³

(* EXPORT, *+ IMPORT)

NOTES

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

NOTES

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2. EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE.

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13484 09/03/2021

..... RPEQ No. Date.....
 RPEQ (Signature)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	REC	APP
25/08/20	C	TOP AND BOTTOM OF RETAINING WALL LEVELS ADDED AND EXCLUSION FENCING NOTE ADDED		EL	PB
07/02/20	B	EARTHWORKS VOLUMES AMENDED AS PER BCC CHANGE APPLICATION RF1 16/12/19		EL	JCS
28/11/19	A	ORIGINAL ISSUE		EL	JCS

BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
R.LLEWELYN
 ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **BULK EARTHWORKS LAYOUT PLAN - PHASE B - SHEET 2**

JOB CODE
17BNE-0071

SHEET NUMBER **C203**

REV **C**

NOTES

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

TESTING

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

EARTHWORKS TESTING

1. COMPACTION TESTS

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

2. QUALITY TESTS
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
3. SUBGRADE TESTS
THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE SUPERINTENDENT WHO SHALL RECOMMEND CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILSTESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

DUST

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

CONDUITS

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

FILL MANAGEMENT

1. ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
5. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
6. DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
7. ANY STRUCTURAL CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +3% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH BUILDING SLABS AND ROAD PAVEMENTS.

8. ANY STRUCTURAL, FREE DRAINING SAND FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK, FLOODED, IF NECESSARY, AND COMPACTED TO A MINIMUM DENSITY INDEX OF 70% AS PER AS1289 5.5.1 USING A STATIC SMOOTH ROLLER DRUM NOT LESS THAN 10 TONNE IN STATIC WEIGHT.
9. THE PLACEMENT OF ALL STRUCTURAL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A 'CONTROLLED MANNER', IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
10. THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
11. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
12. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
13. ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON DRAWING C701.
14. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

FOR REFERENCE ONLY

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
25/08/20	B	BCC APPROVAL STAMP REMOVED AND DRAWING SIGNATORY UPDATED	EL PB
26/06/19	A	ORIGINAL ISSUE	NTT JCS
			REC APP

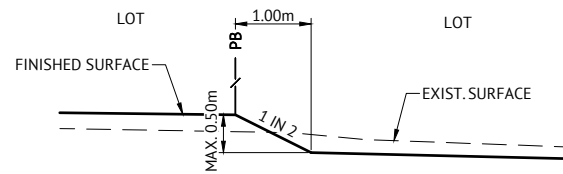
Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED E.LONGMIRE
CHECKED R.BARGER
PROJECT MANAGER R.LLEWELYN
ENGINEERING CERTIFICATION

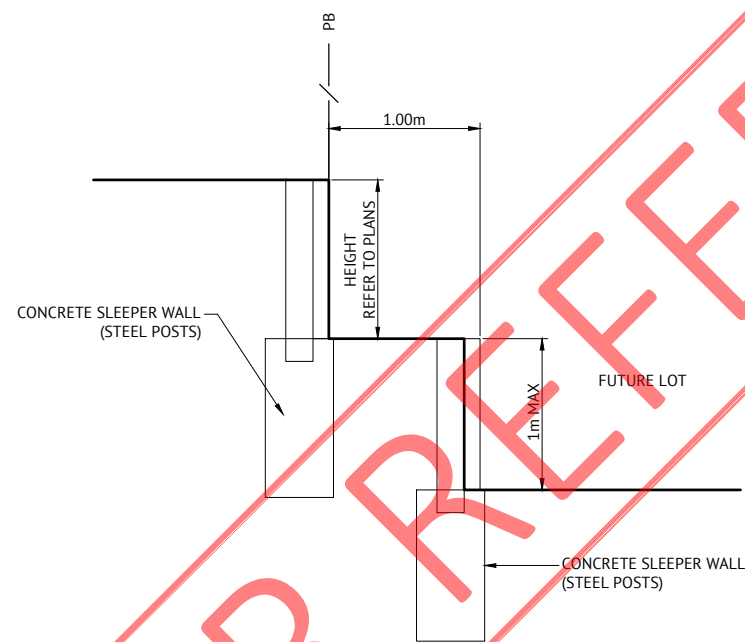
SCALE	
ORIGINAL SHEET SIZE A1	

CLIENT	MIRVAC QUEENSLAND PTY LTD
PROJECT	PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION	420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1

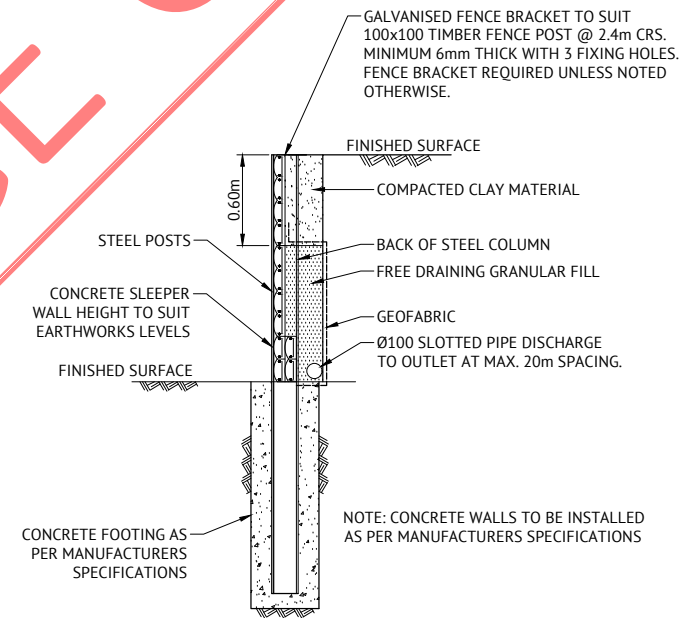
JOB CODE	17BNE-0071
SHEET NUMBER	C210
REV	B



**TYPICAL EARTHWORKS BATTER
BETWEEN LOTS**
SCALE 1:50



**TYPICAL TERRACED CONCRETE SLEEPER
RETAINING WALL**
SCALE 1:25



**TYPICAL CONCRETE SLEEPER RETAINING
WALL DETAIL - STEEL POSTS**
SCALE 1:25

NOTES

1. TO BE READ IN CONJUNCTION WITH DRAWING C001 AND EARTHWORKS DRAWINGS.
2. CONTRACTOR TO PROVIDE STRUCTURAL CERTIFICATION FOR RETAINING WALLS DESIGN AND CONSTRUCTION.
3. RETAINING WALLS SHALL BE DESIGNED TO ENSURE THEIR FOUNDATIONS DO NOT DIRECTLY LOAD ANY PROPOSED OR EXISTING SERVICES. WHERE PROPOSED OR EXISTING SERVICES LIE WITHIN THE RETAINING WALLS ZONE OF INFLUENCE THE CONTRACTOR SHALL PROVIDE BRIDGING ELEMENTS TO ENSURE THE SERVICES ARE UNLOADED.
4. CONTRACTOR SHALL REFER TO ALL LATEST SERVICE DRAWINGS TO ENSURE PROVISIONS ARE MADE FOR ALL PROPERTY SERVICE CONNECTIONS UNDER RETAINING WALLS.
5. FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.

FOR REFERENCE ONLY

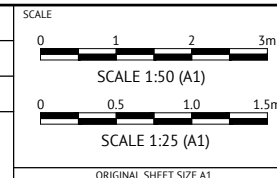
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	EL	PB
25/08/20	C	BCC APPROVAL STAMP REMOVED AND DRAWING SIGNATORY UPDATED		EL	PB
28/11/19	B	RETAINING WALL DIMENSION AMENDED		EL	JCS
26/06/19	A	ORIGINAL ISSUE		NTT	JCS
				REC	APP



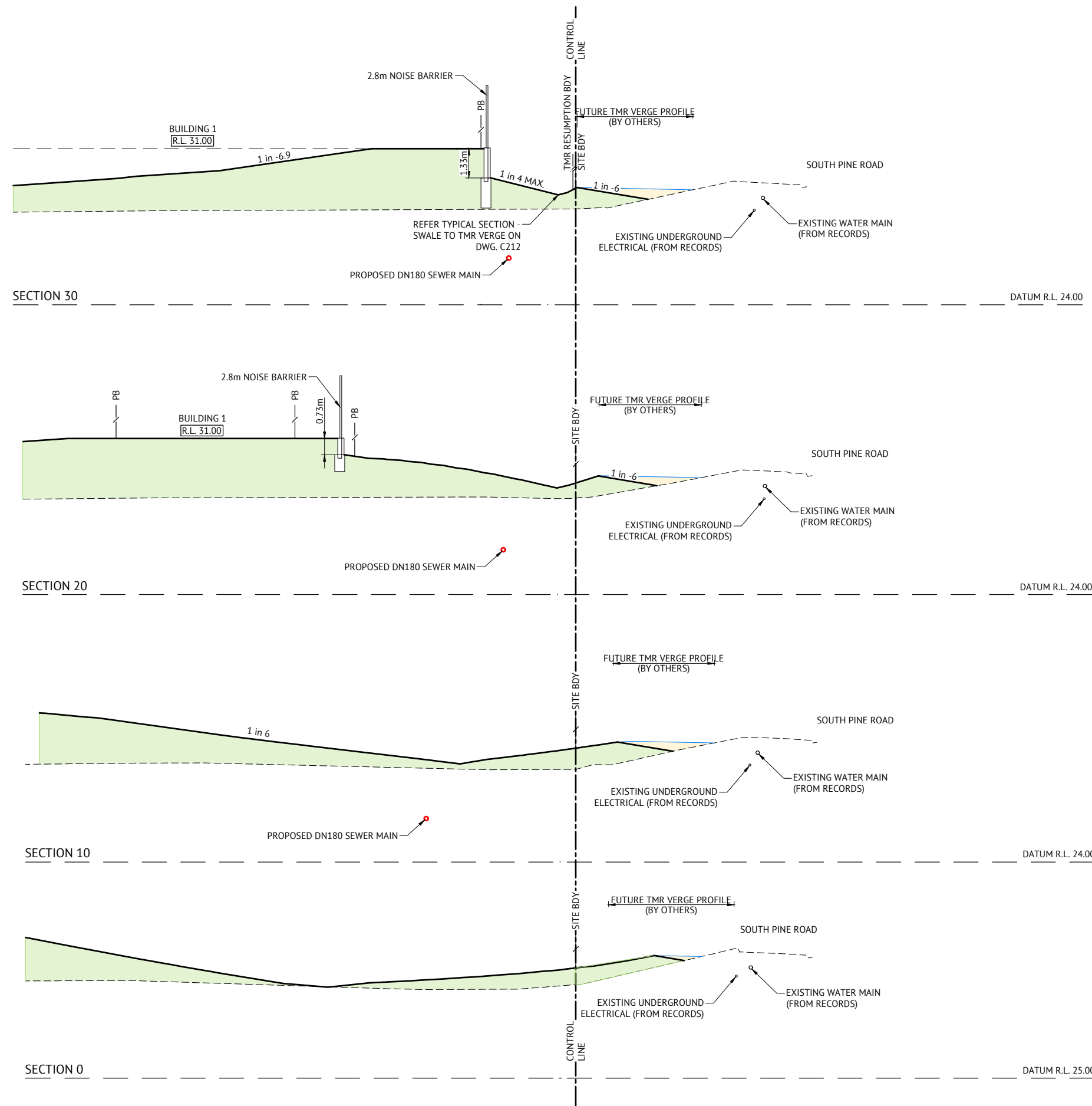
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**
PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
SHEET TITLE **BULK EARTHWORKS NOTES AND DETAILS - SHEET 2**

JOB CODE
17BNE-0071
SHEET NUMBER
C211
REV
C



LEGEND - PROPOSED

- PROPOSED FILLING CIVIL WORKS FOR STAGE 1
- FUTURE EARTHWORKS BY TMR
- EXISTING SURFACE

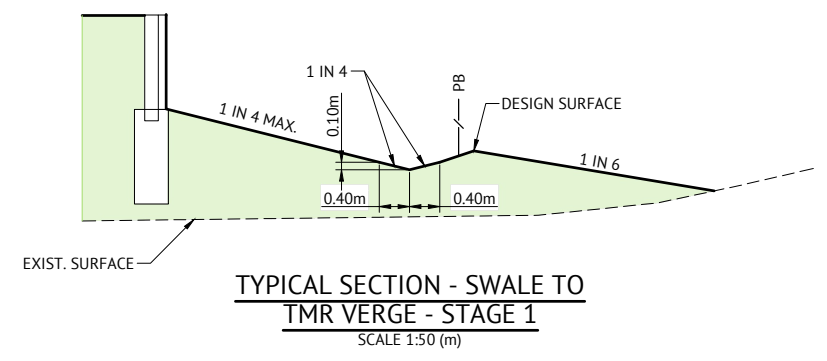
ALL EARTHWORKS BATTERS TO BE TURFED AS DIRECTED ON SITE

AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

- The information contained in this drawing/document is generally in compliance with approved drawings and design.
- To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.

[Signature] RPEQ No. 13484 Date 09/03/21
RPEQ (Signature)



AS CONSTRUCTED		REVISIONS
DATE	REV	DESCRIPTION
09/03/21	E	AS CONSTRUCTED
25/08/20	D	1 IN 4 BATTERS AMENDED AS PER BCC CHANGE APPLICATION RFI 25/02/2020
07/02/20	C	TMR VERGE INTERFACE AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19
28/11/19	B	VERGE PROFILES UPDATED FOR STAGE 1 AND TMR FILLING
26/06/19	A	ORIGINAL ISSUE

BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
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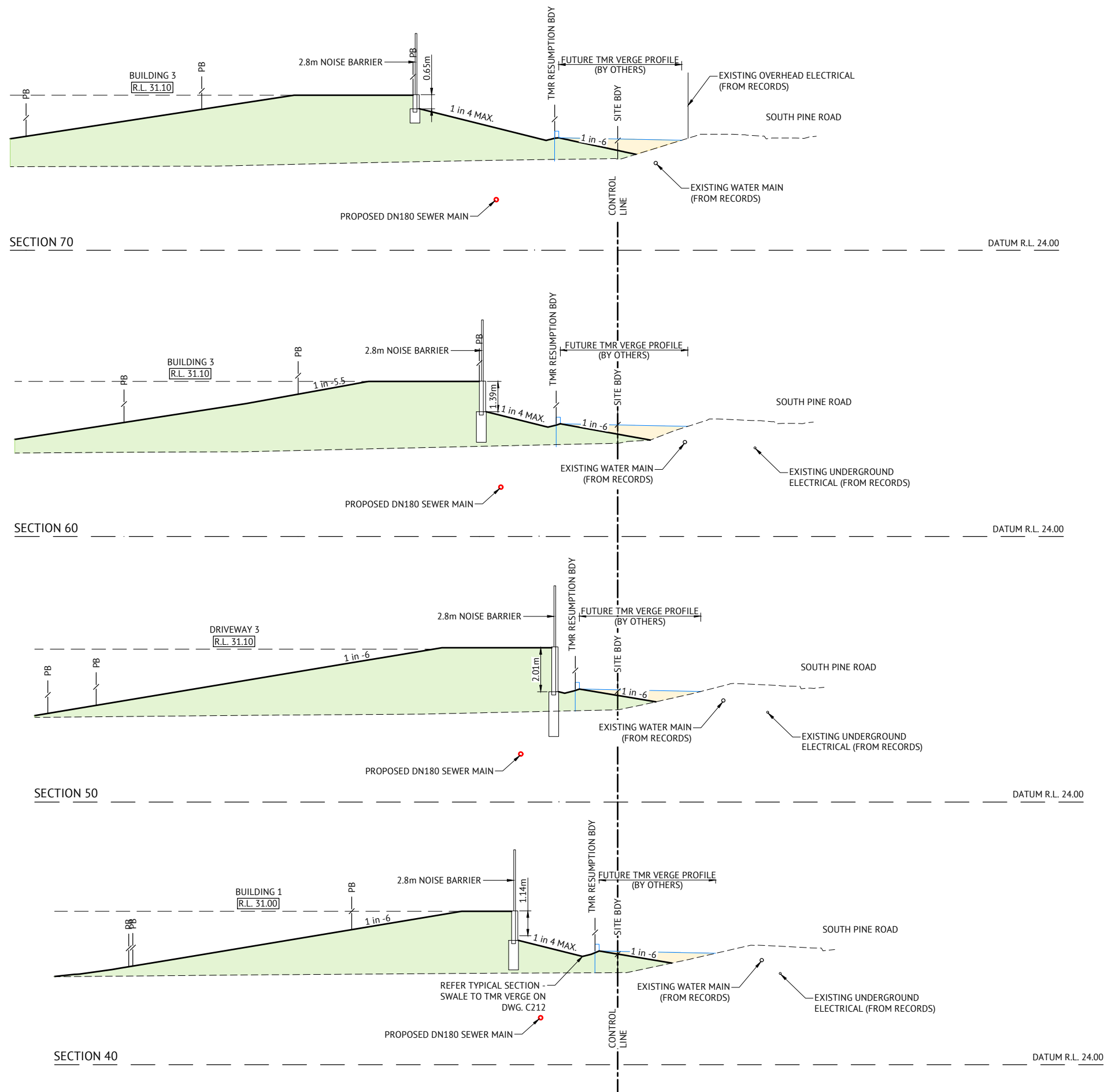
DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
R.LLEWELYN
 ENGINEERING CERTIFICATION

SCALE

 SCALE 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC QUEENSLAND PTY LTD**
 PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
 LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
 SHEET TITLE **TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 1**

JOB CODE **17BNE-0071**
 SHEET NUMBER **C212** REV **E**



LEGEND - PROPOSED

- PROPOSED FILLING CIVIL WORKS FOR STAGE 1
- PROPOSED EARTHWORKS BY TMR
- EXISTING SURFACE

ALL EARTHWORKS
BATTERS TO BE TURFED
AS DIRECTED ON SITE

AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

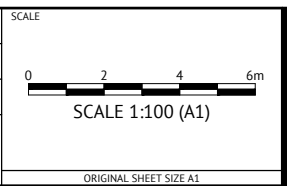
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R. Morris RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

AS CONSTRUCTED		REVISIONS	DATE	REV	DESCRIPTION	REC	APP
25/08/20	D	1 IN 4 BATTERS AMENDED AS PER BCC CHANGE APPLICATION RFI 25/02/2020				EL	PB
07/02/20	C	TMR VERGE INTERFACE AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19				EL	JCS
28/11/19	B	VERGE PROFILES UPDATED FOR STAGE 1 AND TMR FILLING				EL	JCS
26/06/19	A	ORIGINAL ISSUE				NTT	JCS

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 LEVEL 1, 100 BRUNSWICK STREET
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R.LLEWELYN
 ENGINEERING CERTIFICATION
 PATRICK BRADY RPEQ 7112



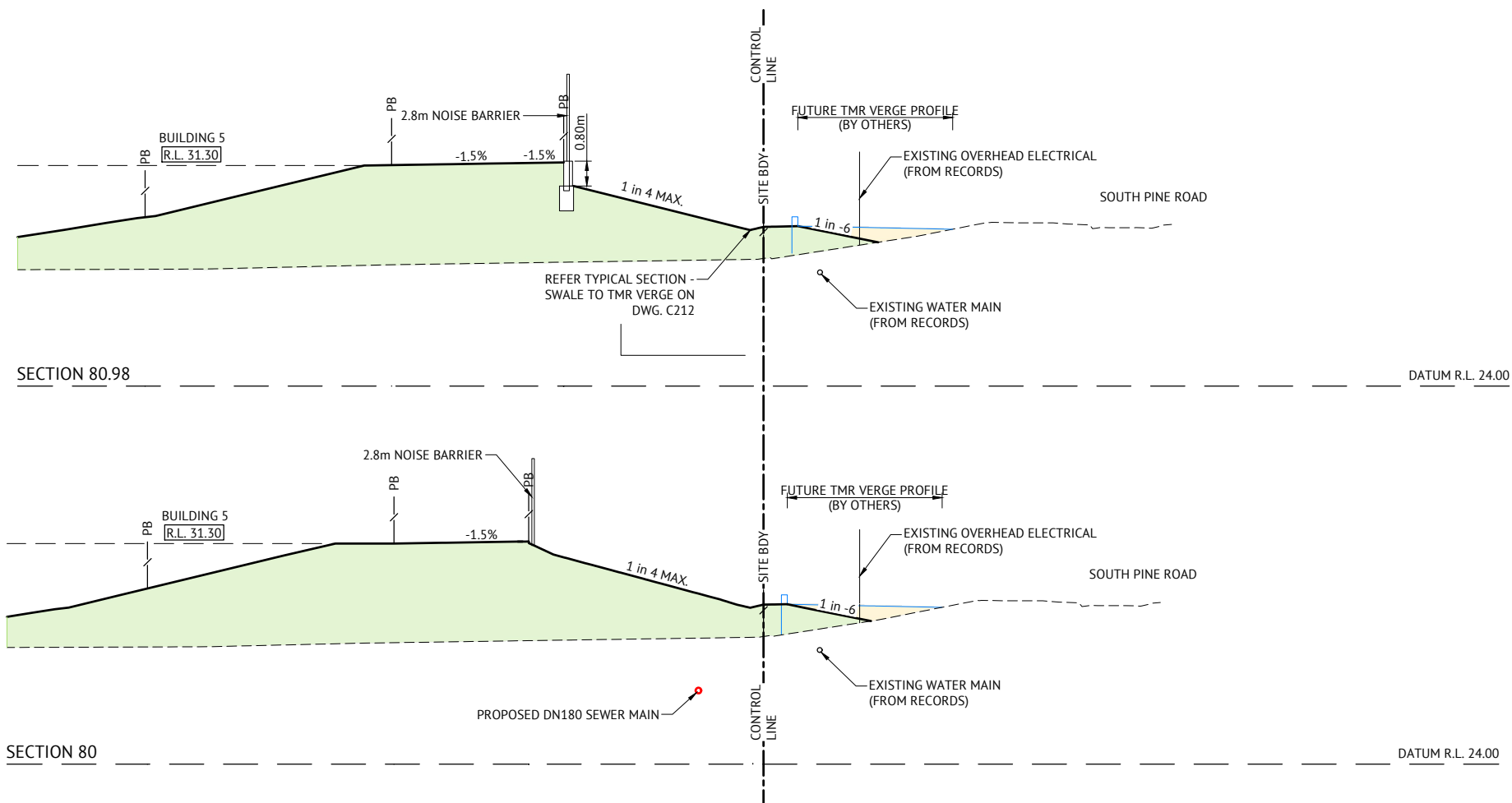
CLIENT **MIRVAC QUEENSLAND PTY LTD**
 PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
 LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
 SHEET TITLE **TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 2**

JOB CODE **17BNE-0071**
 SHEET NUMBER **C213** REV **D**

LEGEND - PROPOSED

- PROPOSED FILLING CIVIL WORKS FOR STAGE 1
- PROPOSED EARTHWORKS BY TMR
- EXISTING SURFACE

ALL EARTHWORKS
BATTERS TO BE TURFED
AS DIRECTED ON SITE



AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

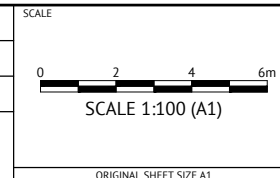
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Richard Morris RPEQ No. 13484 Date 09/03/21
RPEQ (Signature)

AS CONSTRUCTED		REVISIONS
DATE	REV	DESCRIPTION
25/08/20	D	1 IN 4 BATTERS AMENDED AS PER BCC CHANGE APPLICATION RFI 25/02/2020
07/02/20	C	TMR VERGE INTERFACE AMENDED AS PER BCC CHANGE APPLICATION RFI 16/12/19
28/11/19	B	VERGE PROFILES UPDATED FOR STAGE 1 AND TMR FILLING
26/06/19	A	ORIGINAL ISSUE

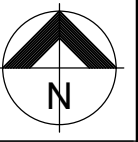
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 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED E.LONGMIRE
CHECKED R.BARGER
PROJECT MANAGER R.LLEWELYN
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112



CLIENT MIRVAC QUEENSLAND PTY LTD
PROJECT PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION 420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE TMR EARTHWORKS CROSS SECTIONS - PHASE A - SHEET 3

JOB CODE 17BNE-0071
SHEET NUMBER C214
REV D



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- RL 32.00
- H1.00m
- LANDSCAPE MASONRY RETAINING WALL. FOR SECTIONS REFER BULK EARTHWORKS NOTES AND DETAILS.

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.20m)
- S-W- -S-W-
- S- -S-
- R-M- -R-M-
- W- -W-
- E- -E-
- T- -T-
- G- -G-

POINT	EASTING	NORTHING	LEVEL
1	8936.599	7968.881	32.922
2	8936.714	7968.487	32.000
3	8939.548	7967.921	33.485
4	8939.362	7967.764	32.000
5	8939.712	7966.191	33.511
6	8939.532	7965.973	32.000
7	8944.548	7966.649	33.451
8	8944.368	7966.431	32.000
9	8944.772	7964.279	33.496
10	8944.592	7964.061	32.000
11	8949.742	7964.750	33.451
12	8949.562	7964.532	32.000
13	8949.944	7963.041	33.485
14	8949.725	7962.820	32.000
15	8954.094	7963.435	33.020
16	8953.914	7963.217	32.000

NOTES

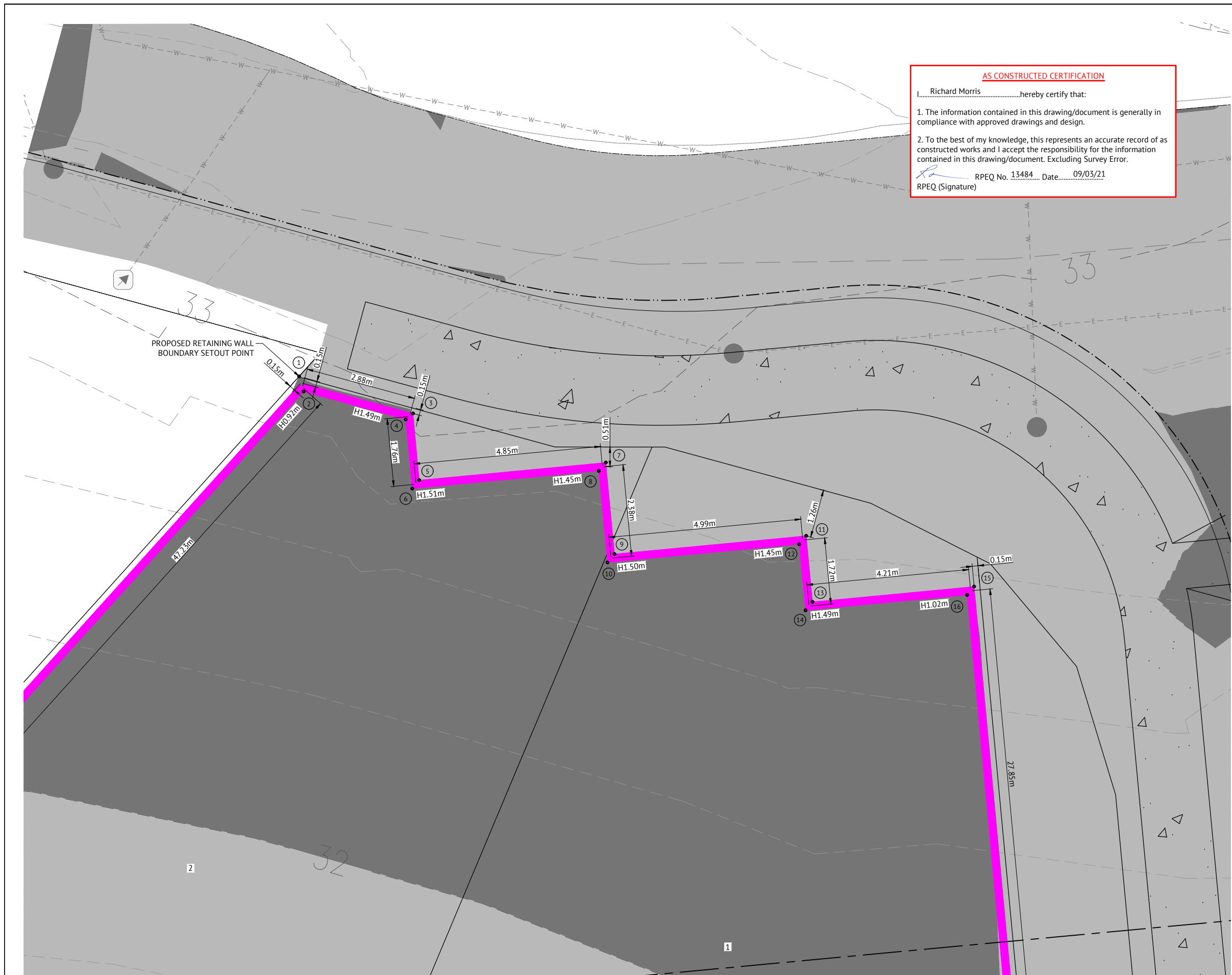
1. TO BE READ IN CONIUNCTION WITH DRAWING C001, BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
2. EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE.

AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

1. The information contained in this drawing/document is generally in compliance with approved drawings and design.
2. To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.

[Signature] RPEQ No. 13484 Date 09/03/21
RPEQ (Signature)



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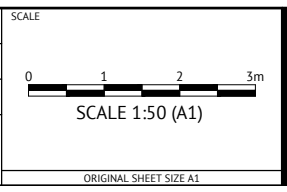
DATE	REV	DESCRIPTION	REVISIONS	REC	APP
09/03/21	C	AS CONSTRUCTED		BA	RJM
12/10/20	B	LOT 1 BOUNDARY TRUNCATION AMENDED		EL	PB
	A	ORIGINAL ISSUE		EL	PB

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

DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **RETAINING WALL SETOUT FOR LOT 1 LAYOUT PLAN**

JOB CODE **17BNE-0071**

SHEET NUMBER **C220** REV **C**

NOTES

- ROADWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, ROADWORKS LAYOUT PLANS, LONG SECTIONS, NOTES & DETAILS.
- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH BRISBANE CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS.
- 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.
- 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 CONTRACTOR'S COST AND SHALL BE PROVIDED TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF ANY NON-COMFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
- FULL DEPTH PAVEMENT CONSTRUCTION SHALL EXTEND BEHIND ALL KERB AND KERB AND CHANNEL FOR A DISTANCE WHICH IS THE GREATER OF 150mm FROM THE BACK OF KERB OR ACROSS TO THE OUTER LIMIT OF SIDE DRAIN FILTER MATERIAL.
- 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.

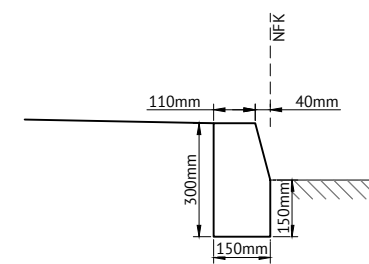
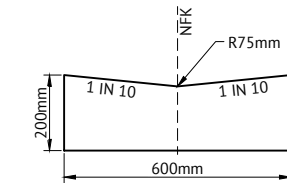
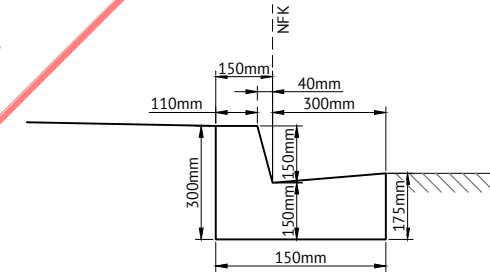
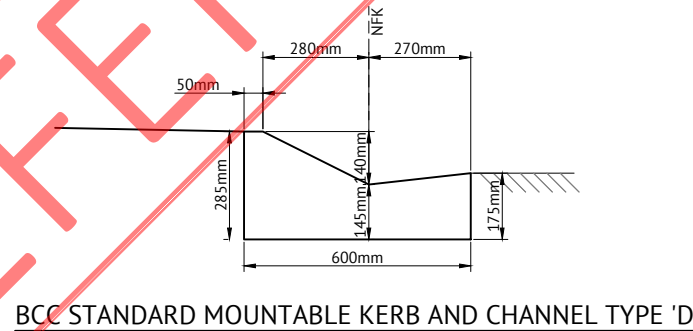
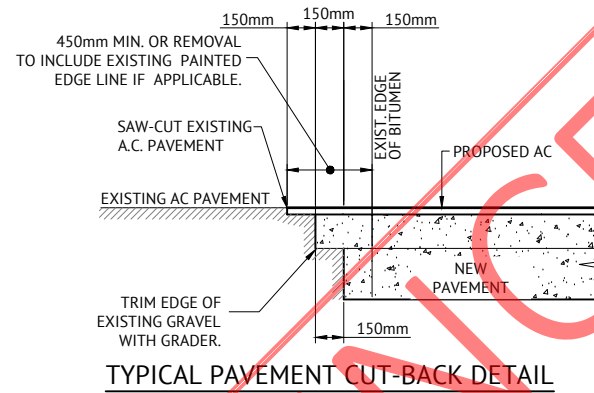
CONCRETE PAVEMENT

- 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:	32 MPa @ 28 DAYS
FLEXURAL STRENGTH:	3.5 MPa @ 28 DAYS
MAXIMUM AGGREGATE SIZE:	20mm
SLUMP:	80mm+15mm
MESH:	SL82, 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.



APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	NTT REC	JCS APP
26/06/19	A	ORIGINAL ISSUE		
REVISIONS				



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

DESIGNED: E.LONGMIRE
CHECKED: R.BARGER
PROJECT MANAGER: T.ZETTL
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112

SCALE: ORIGINAL SHEET SIZE A1

CLIENT: **MIRVAC QUEENSLAND PTY LTD**
PROJECT: **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
LOCATION: **420 SOUTH PINE ROAD - EVERTON PARK**
SHEET TITLE: **ROADWORKS NOTES AND DETAILS**

JOB CODE: **17BNE-0071**
SHEET NUMBER: **C300**
REV: **A**

AS CONSTRUCTED CERTIFICATION

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RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	ASHMORE STREET
CLASS	NEIGHBOURHOOD ROAD (WITHOUT BUS SERVICE)
ESA's	9.0 x 10 ⁵
SURFACE	50mm AC
CBR 80	100mm
CBR 45	100mm
CBR 15	300mm
TOTAL BOX	550mm

ASSUMED CBR 3 SUBGRADE PRIOR TO TESTING

* REFER TO INTERSECTION DETAILS PLANS

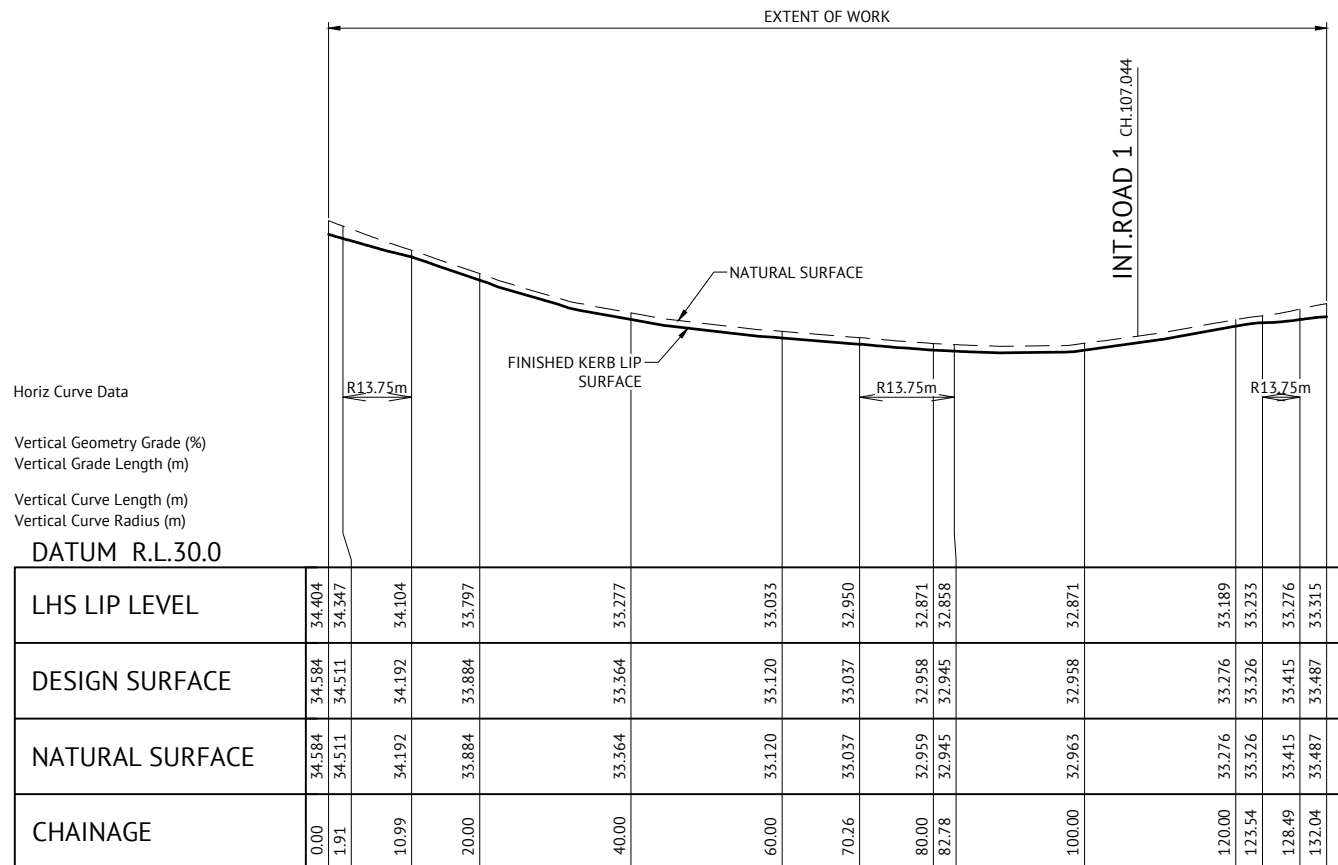
PAVEMENT DESIGN	
ROADS	ASHMORE STREET
CLASS	NEIGHBOURHOOD ROAD (without bus service)
CHAINAGE	0 - 132
ESA's	9.0 x 10 ⁵
SURFACE	50mm AC
CBR 80	100mm
CBR 45	100mm
CBR 15	140mm
SUBGRADE REPLACEMENT (CBR 15)	-
TOTAL BOX	390mm
DESIGN CBR	6.0

PAVEMENT DESIGN		
ROADS	ROAD 1	ROAD 1
CLASS	NEIGHBOURHOOD ROAD	ACCESS ROAD
CHAINAGE	0 - 48	48 - 80
ESA's	5.9 x 10 ⁵	1.5 x 10 ⁵
SURFACE	50mm AC	30mm AC
CBR 80	100mm	100mm
CBR 45	100mm	100mm
CBR 15	140mm	100mm
SUBGRADE REPLACEMENT (CBR 15)	-	400mm Ch 60-80
TOTAL BOX	390mm	730mm
DESIGN CBR	6.0	6.0

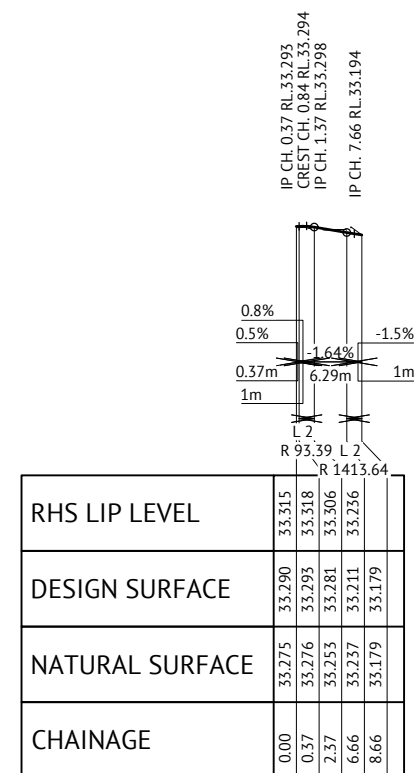
PAVEMENT DESIGN (PRELIMINARY)	
ROADS	ROAD 1
CLASS	NEIGHBOURHOOD ROAD / ACCESS ROAD
ESA's	NEIGHBOURHOOD ROAD: 5.9 x 10 ⁵ ACCESS ROAD: 1.5 x 10 ⁵
SURFACE	35mm AC of 10mm MIX
CBR 80	PRIME
CBR 45	150mm
CBR 15	150mm
TOTAL BOX	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING

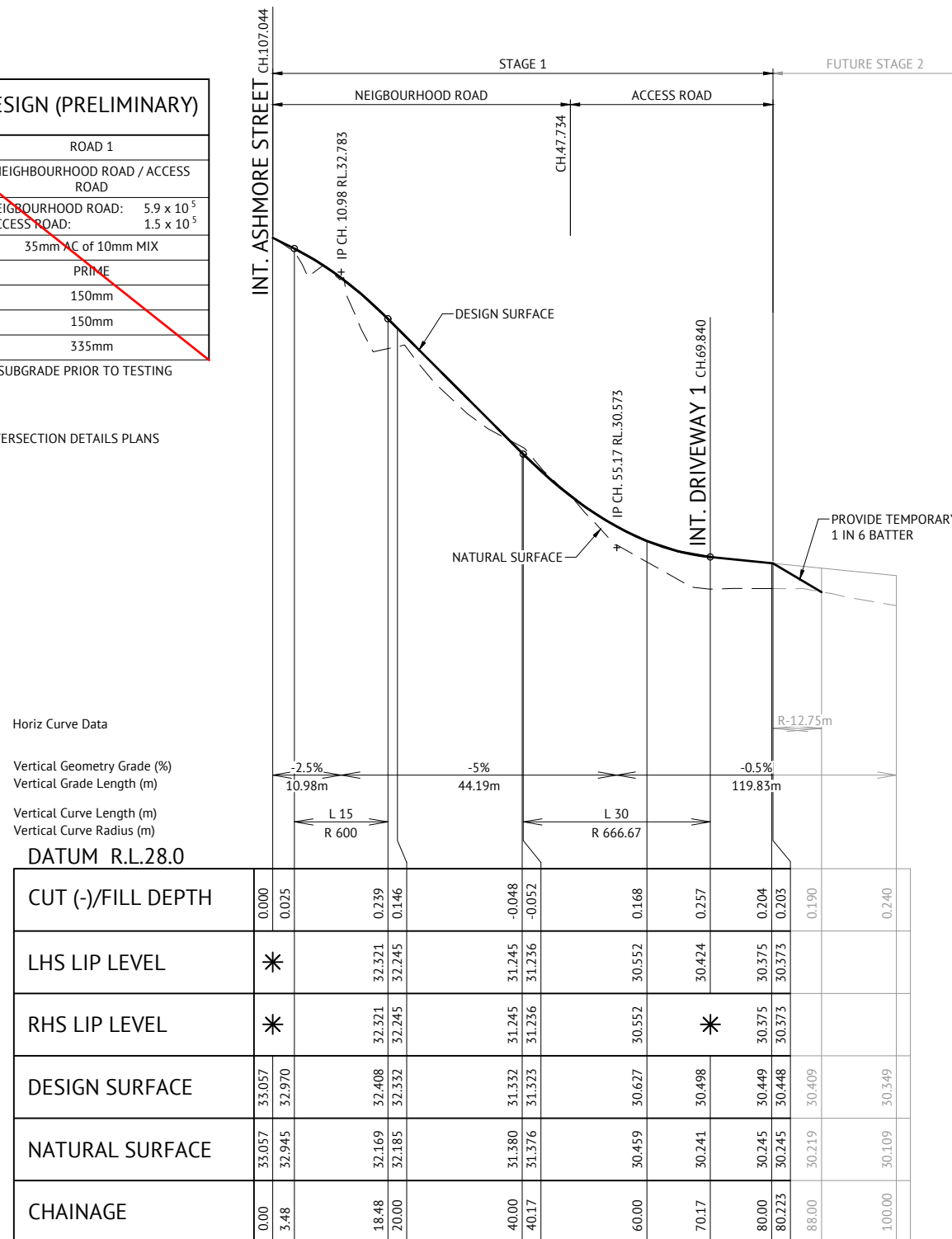
* REFER TO INTERSECTION DETAILS PLANS



ASHMORE STREET LONGITUDINAL SECTION



ASHMORE STREET KERB EXTENSION LONGITUDINAL SECTION



ROAD 1 LONGITUDINAL SECTION

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
09/03/21	C	AS CONSTRUCTED	BA RIM
25/08/20	B	ASHMORE STREET DESIGN LIP LEVELS AMENDED AND CHAINAGE ADDED WHERE ROAD CLASS CHANGES	EL PB
26/06/19	A	ORIGINAL ISSUE	NT JCS
			REC APP

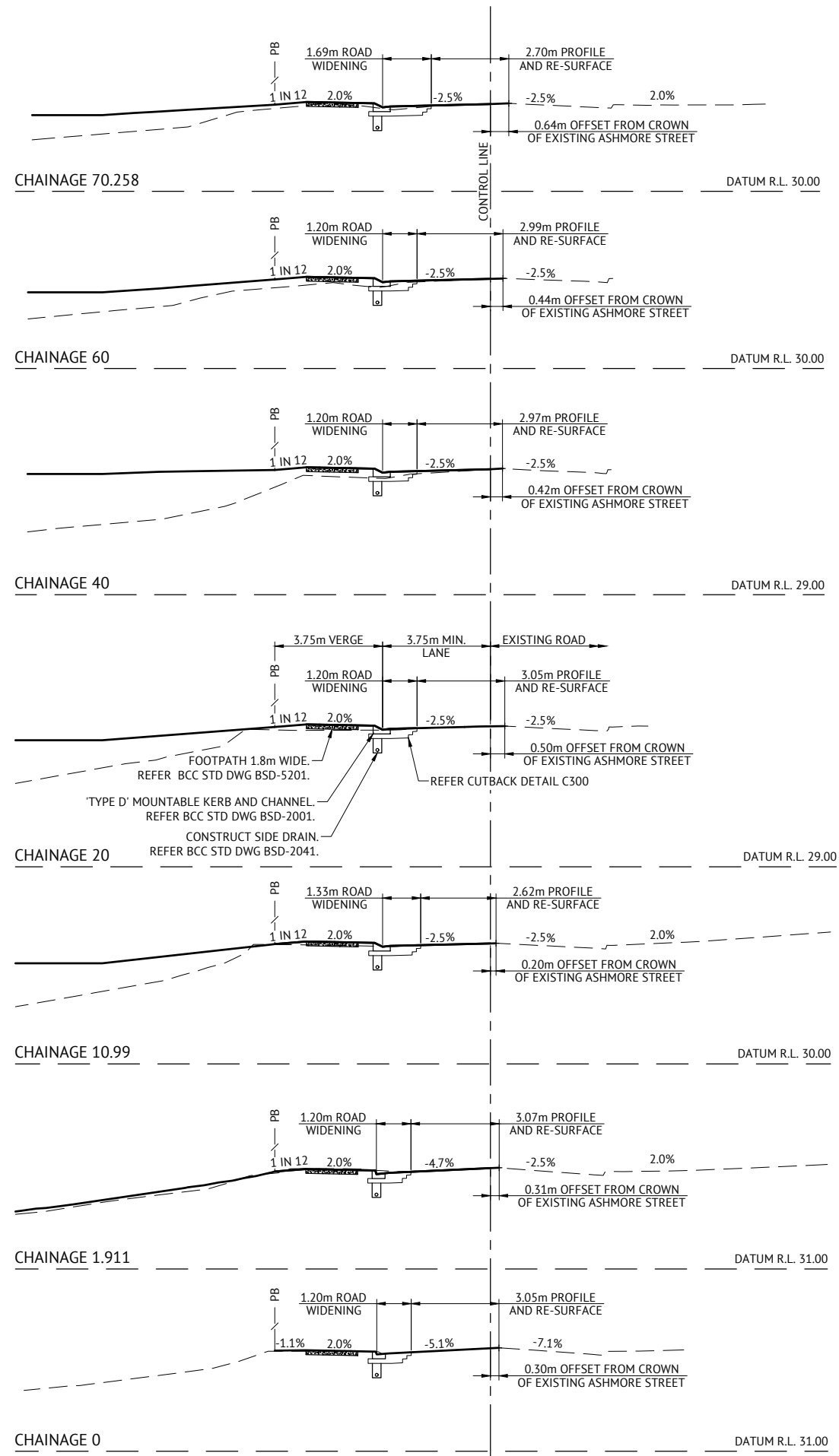
Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: E.LONGMIRE
CHECKED: R.BARGER
PROJECT MANAGER: R.LLEWELYN
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:500 (A1)
VERTICAL 1:50 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QUEENSLAND PTY LTD
PROJECT: PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION: 420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE: ROAD LONGITUDINAL SECTIONS

JOB CODE: 17BNE-0071
SHEET NUMBER: C310
REV: C

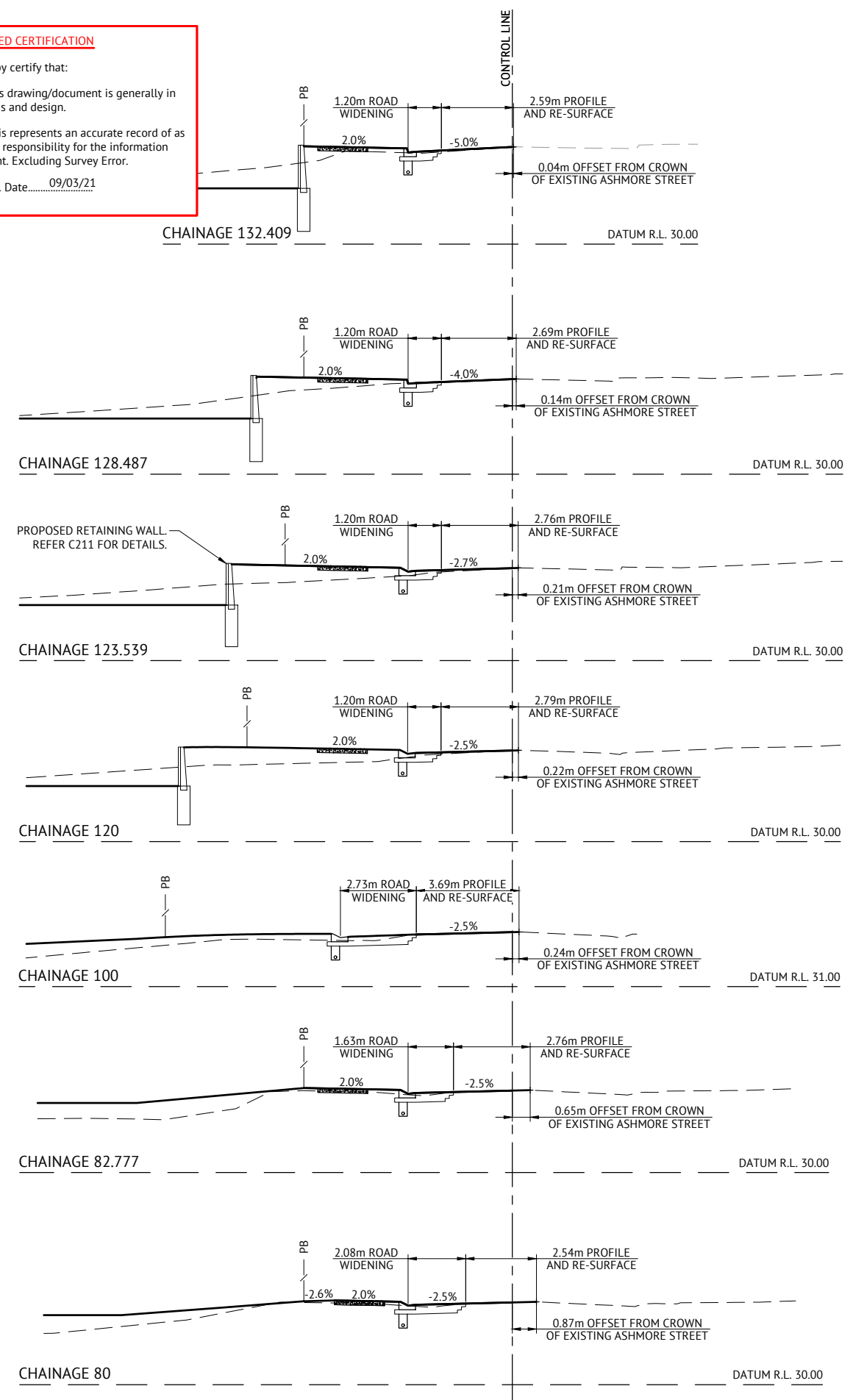


AS CONSTRUCTED CERTIFICATION

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RPEQ (Signature) RPEQ No. 13484 Date 09/03/21



AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS
09/03/21	C	AS CONSTRUCTED	
25/08/20	B	CROSS SECTIONS AMENDED FOR SETOUT OF CONTROL LINE FROM CROWN OF EXISTING ASHMORE STREET	
26/06/19	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
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
R.LLEWELYN
 ENGINEERING CERTIFICATION

SCALE

 SCALE 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

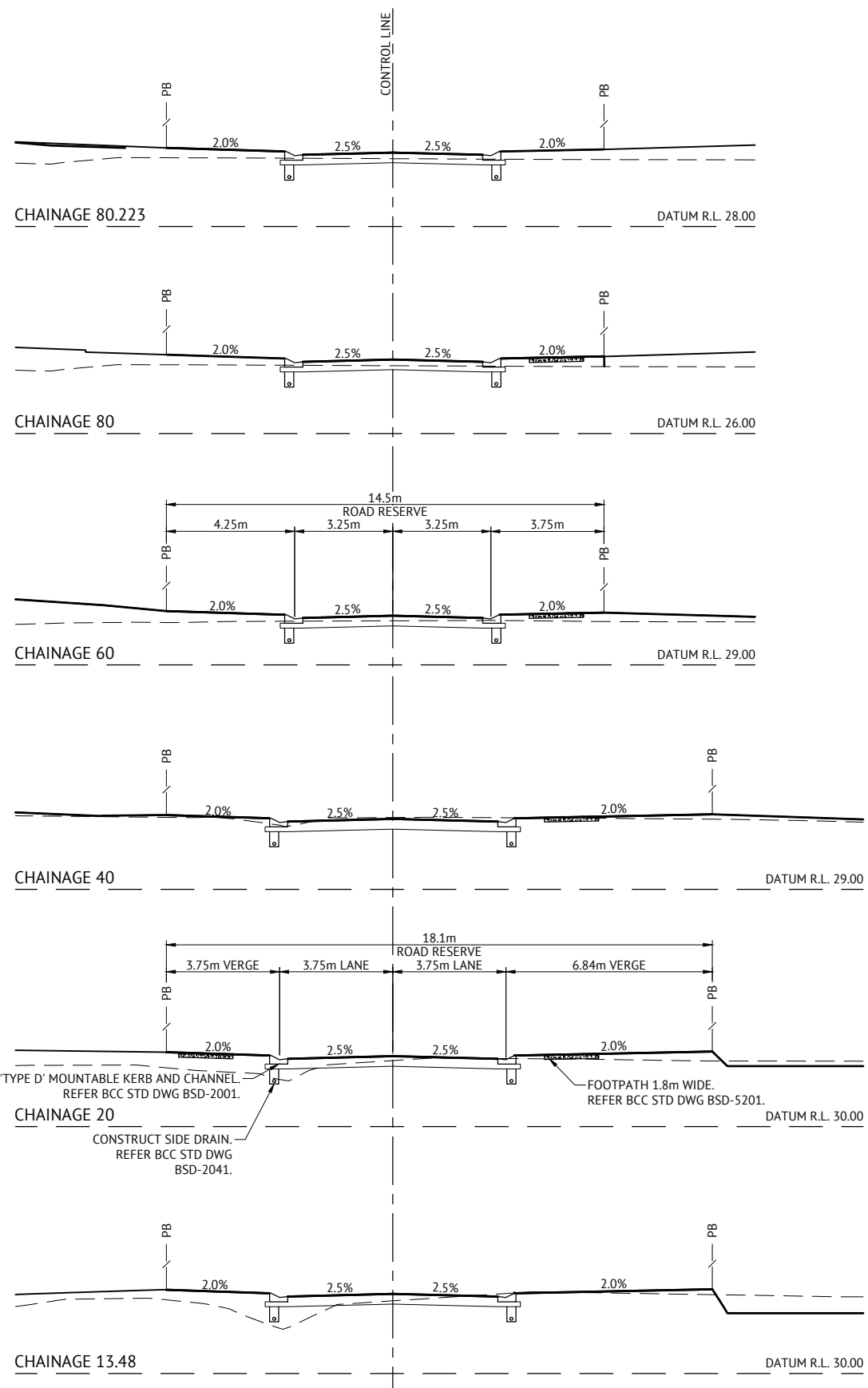
LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
ASHMORE STREET CROSS SECTIONS

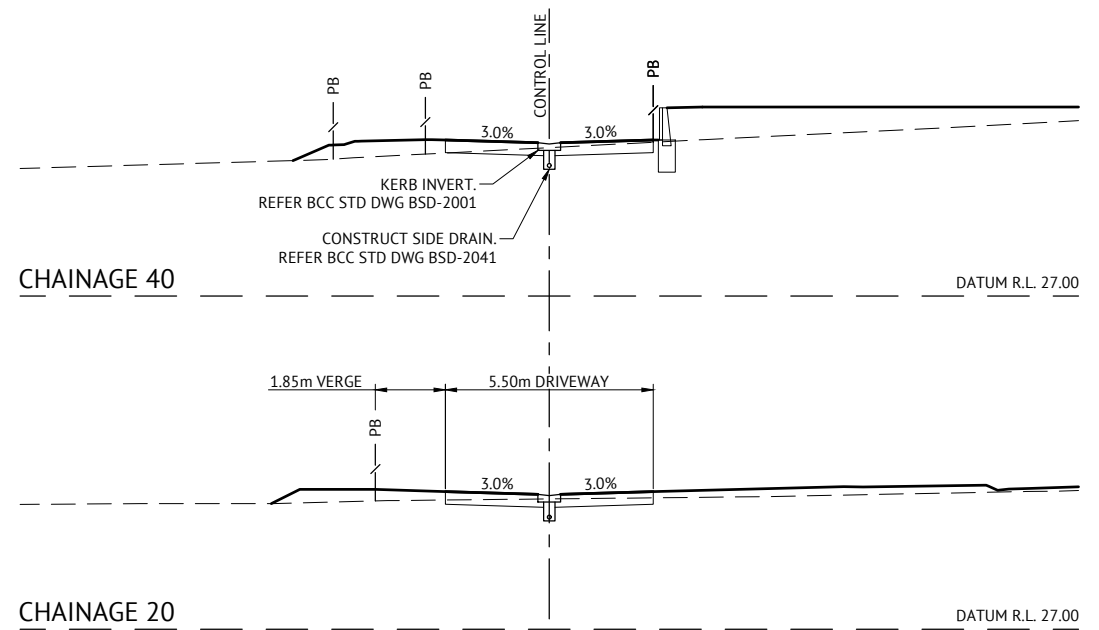
JOB CODE
17BNE-0071

SHEET NUMBER
C311

REV
C



ROAD 1 CROSS SECTIONS
SCALE 1:100



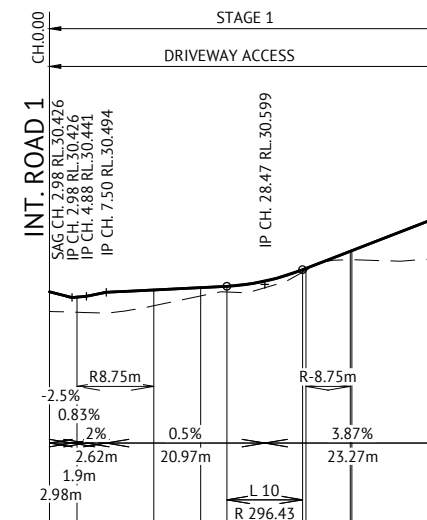
DRIVEWAY 1 CROSS SECTIONS
SCALE 1:100

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[Signature] RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)



Horiz Curve Data

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

DATUM R.L.27.0

	0.00	3.64	13.80	20.00	23.47	33.47	35.91	39.78	40.00	51.74
CUT (-)/FILL DEPTH	0.259	0.200	0.209	0.110	0.075	0.033	0.025	0.110	0.119	0.554
LHS LIP LEVEL		30.514	30.608	30.639	30.656	30.875	30.892	31.119	31.128	31.582
RHS LIP LEVEL		30.514	30.608	30.639	30.656	30.875	30.892	31.119	31.128	31.582
DESIGN SURFACE	30.500	30.431	30.525	30.556	30.574	30.792	30.809	31.037	31.045	31.500
NATURAL SURFACE	30.742	30.731	30.317	30.446	30.498	30.760	30.785	30.927	30.926	30.946
CHAINAGE	0.00	3.64	13.80	20.00	23.47	33.47	35.91	39.78	40.00	51.74

DRIVEWAY 1 LONGITUDINAL SECTION
REFER S001 & S002 FOR TYPICAL DRIVEWAY DETAILS AND SUBJECT TO LANDSCAPE ARCHITECTS SPECIFICATIONS

AS CONSTRUCTED

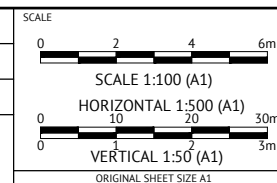
DATE	REV	DESCRIPTION	REVISIONS	BA	RIM
09/03/21	B	AS CONSTRUCTED			
26/06/19	A	ORIGINAL ISSUE			



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LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
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DESIGNED
E.LONGMIRE
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R.BARGER
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ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

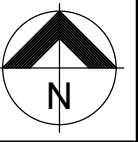
LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
ROAD 1 AND DRIVEWAY 1 LONG AND CROSS SECTIONS

JOB CODE
17BNE-0071

SHEET NUMBER
C312

REV
B

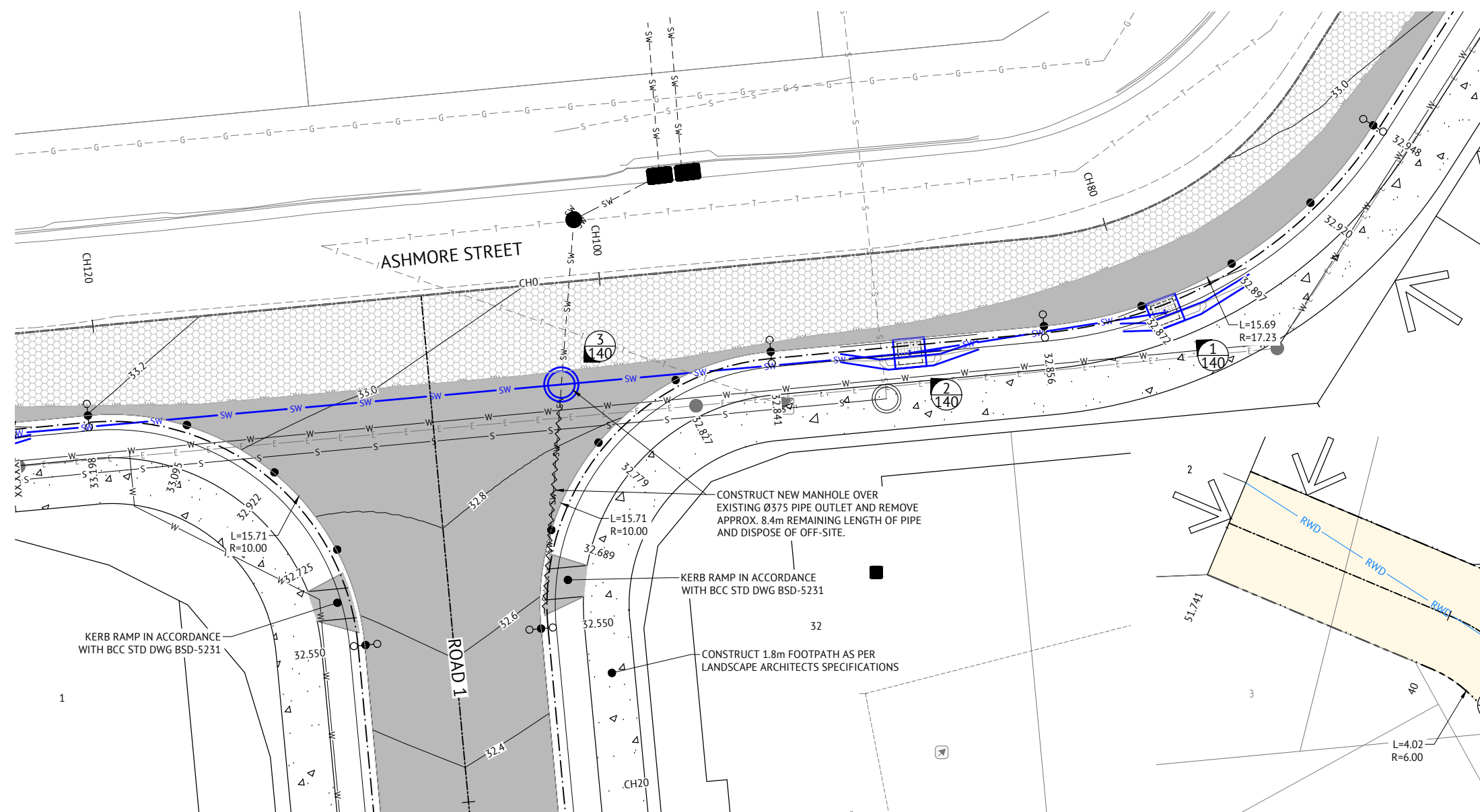


AS CONSTRUCTED CERTIFICATION

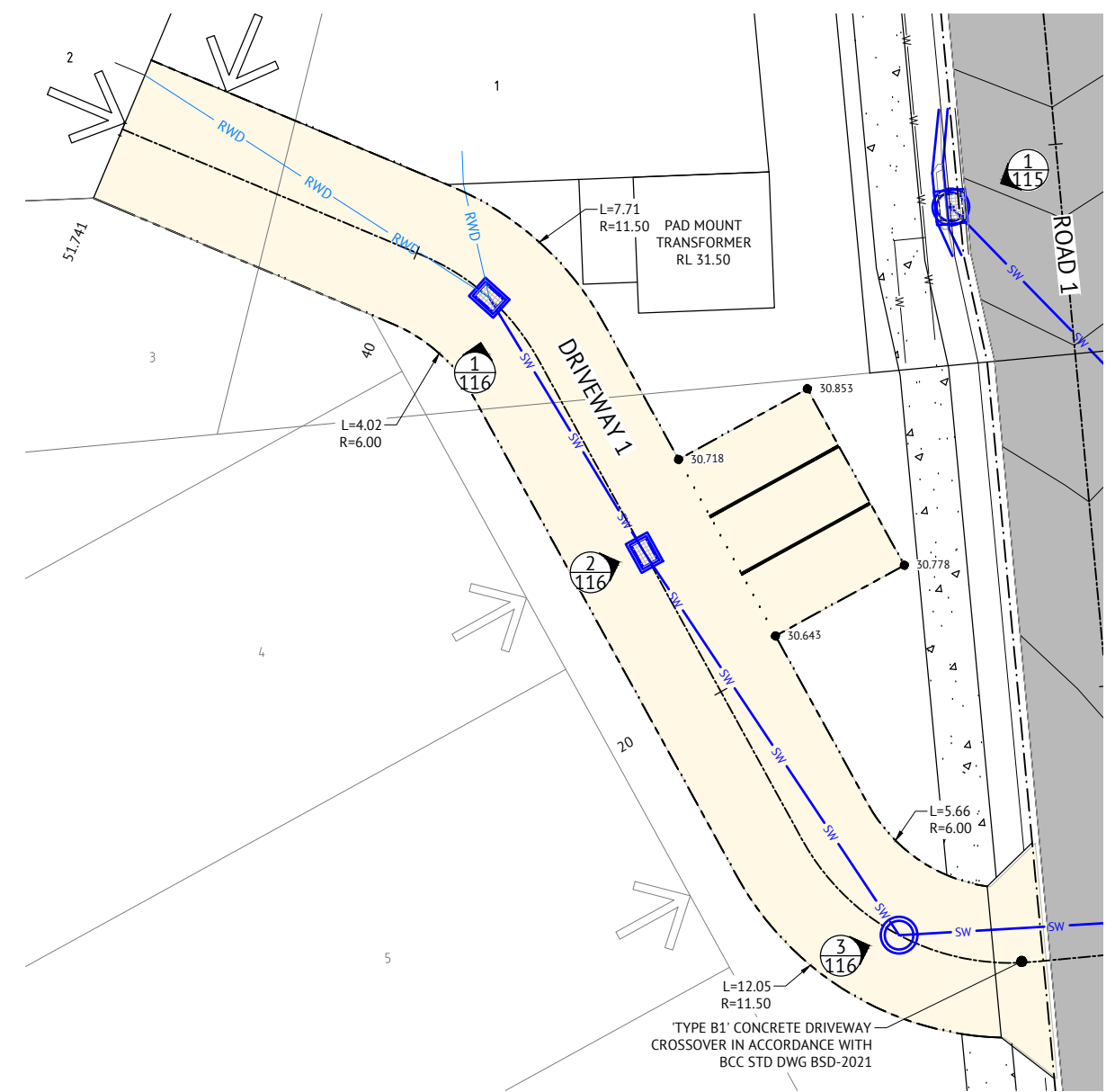
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RPEQ 13484 Date: 09/03/21
RPEQ (Signature)



INTERSECTION ASHMORE STREET & ROAD 1
SCALE 1:100



INTERSECTION DRIVEWAY 1
SCALE 1:125

LEGEND - PROPOSED

- EXISTING PAVEMENT - PROFILE AND RE-SURFACE A.C.
- PAVEMENT WIDENING AND ENTRY PAVEMENT
- CONCRETE PAVEMENT REFER C300 FOR CONCRETE PAVEMENT DETAILS AND LANDSCAPE ARCHITECTS FOR SPECIFICATIONS
- KERB RAMP
- 'TYPE D' MOUNTABLE KERB AND CHANNEL REFER BCC STD DWG BSD-2001
- FINISHED MAJOR CONTOURS (0.2m)
- FINISHED MINOR CONTOURS (1.0m)
- LIP OF KERB LEVEL
- STORMWATER
- GRAVITY SEWER
- WATER
- ELECTRICAL

LEGEND - EXISTING

- STORMWATER
- STORMWATER TO BE REMOVED
- GRAVITY SEWER
- WATER
- ELECTRICAL
- TELSTRA
- GAS

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

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS	REC	APP
09/03/21	D	AS CONSTRUCTED		BA	RIM
12/10/20	C	LOT 1 BOUNDARY TRUNCATION AMENDED		EL	PB
25/08/20	B	STORMWATER NOTE UPDATED AND EXISTING STORMWATER TO BE REMOVED ADDED TO LEGEND		EL	PB
26/06/19	A	ORIGINAL ISSUE		NTT	JCS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
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WEB: www.premise.com.au

DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE
AS SHOWN
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

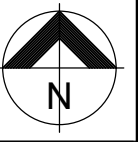
LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
INTERSECTION DETAILS PLAN

JOB CODE
17BNE-0071

SHEET NUMBER
C320

REV
D

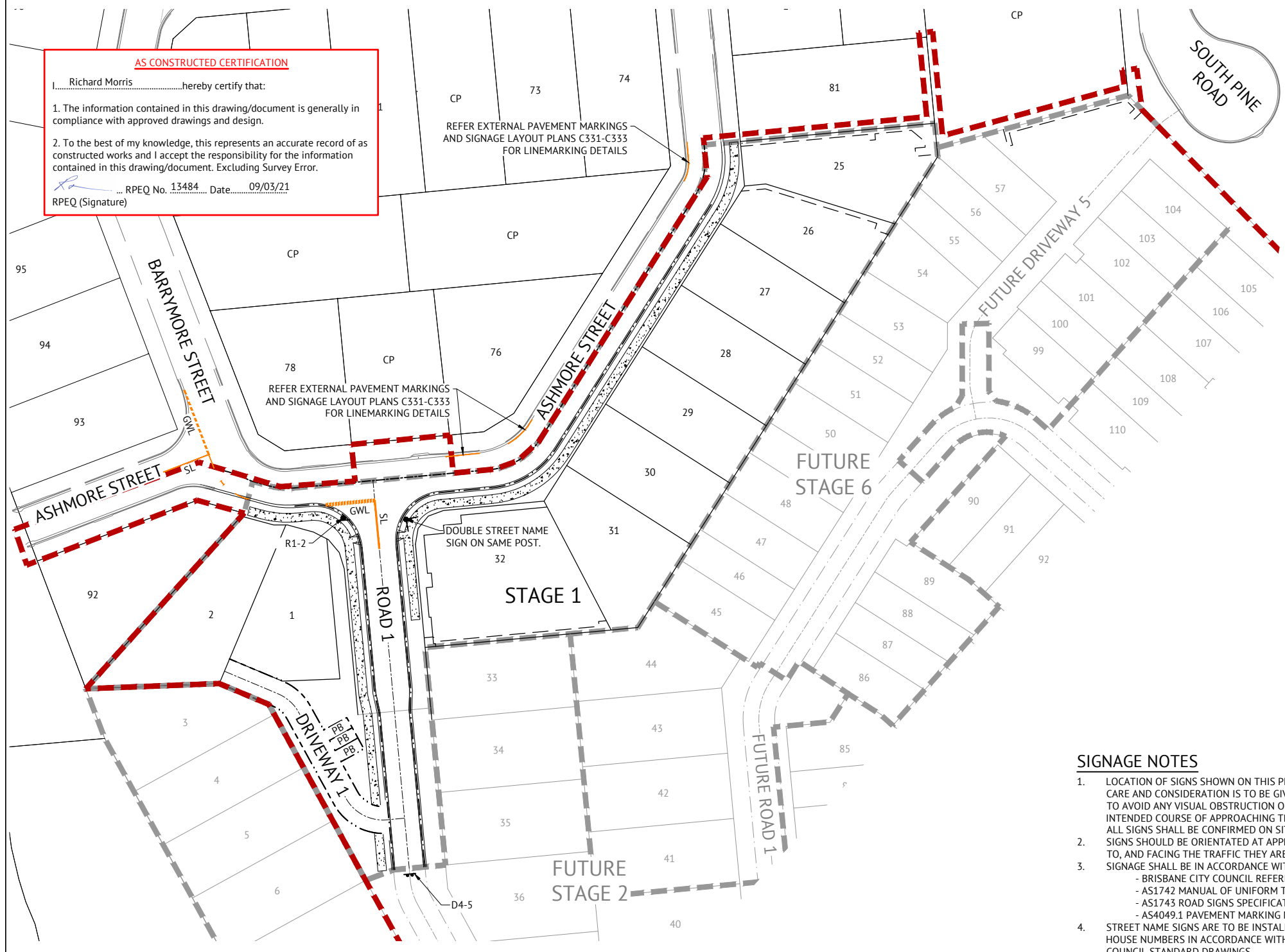


AS CONSTRUCTED CERTIFICATION

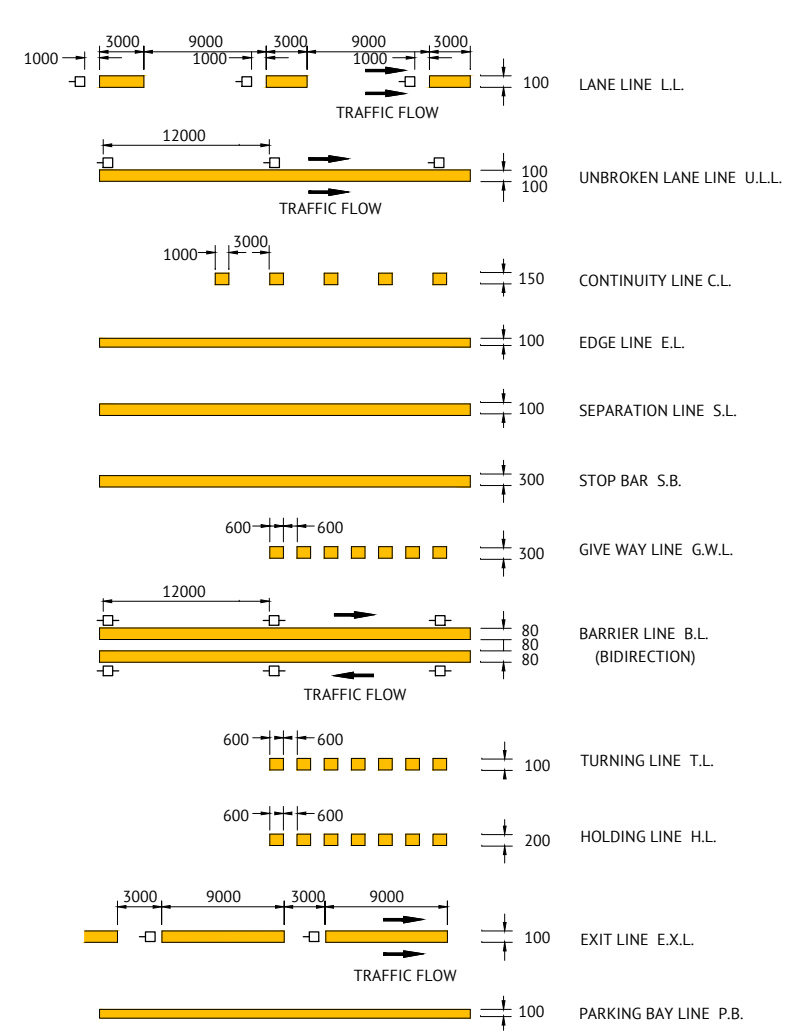
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... RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)



TYPICAL LINEMARKING LEGEND



SIGNAGE NOTES

- LOCATION OF SIGNS SHOWN 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:
 - BRISBANE CITY COUNCIL REFERENCE SPECIFICATION S154
 - 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.

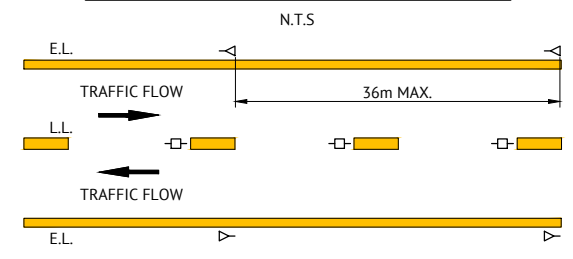
LINEMARKING NOTES

- 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 BRISBANE CITY COUNCIL REFERENCE SPECIFICATIONS S150 AND S155. 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.

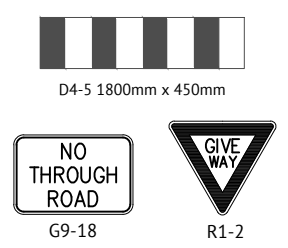
RETROREFLECTIVE RAISED PAVEMENT MARKER (RRPM)

- WHITE UNI-DIRECTIONAL
- ◄ RED UNI-DIRECTIONAL
- ◄◄ YELLOW BI-DIRECTIONAL
- ◄◄◄ YELLOW UNI-DIRECTIONAL

TYPICAL TWO LANE TWO-WAY ROAD



REQUIRED SIGNS



AS CONSTRUCTED

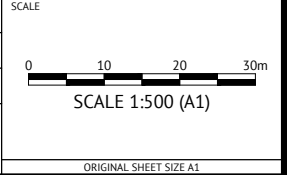
DATE	REV	DESCRIPTION	REVISIONS	REC	APP
09/03/21	C	AS CONSTRUCTED		BA	RIM
12/10/20	B	LOT 1 BOUNDARY TRUNCATION AMENDED		EL	PB
26/06/19	A	ORIGINAL ISSUE		NTT	JCS

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BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
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PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

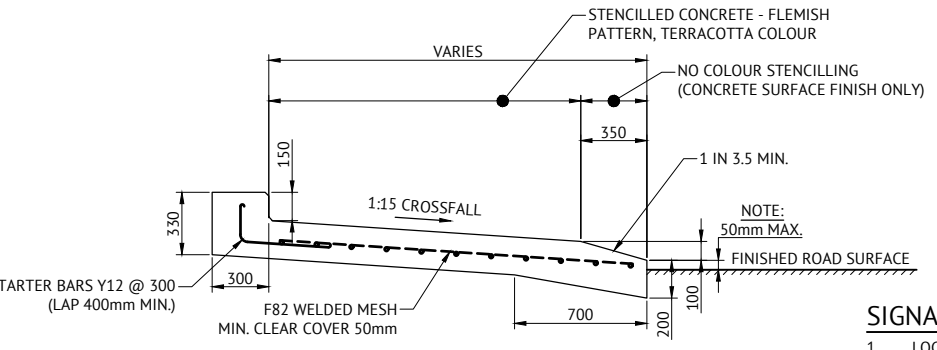
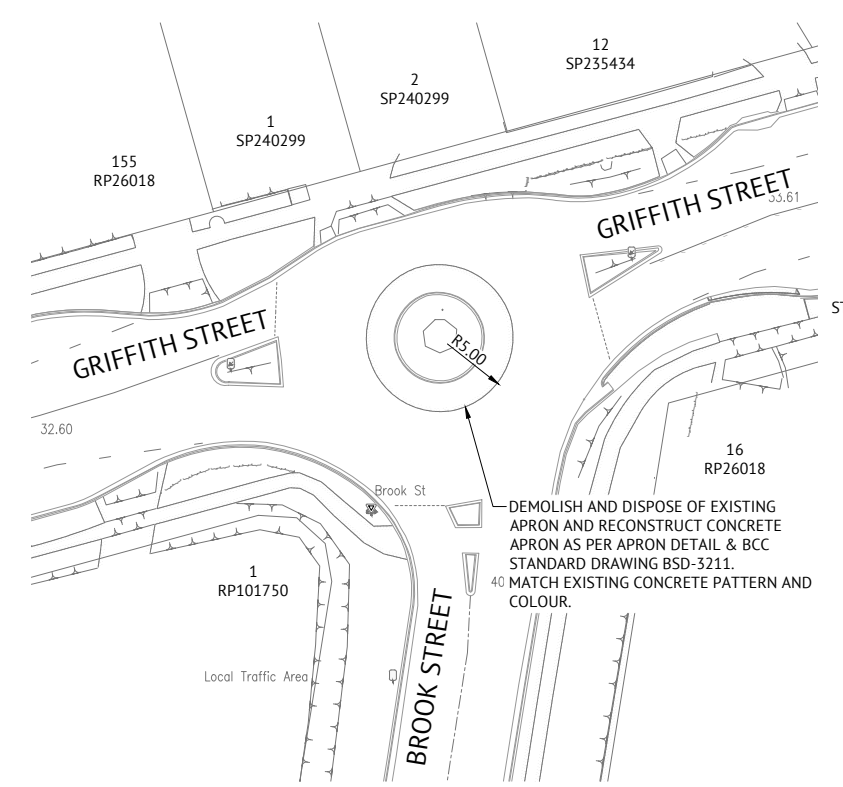
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **PAVEMENT MARKINGS AND SIGNAGE LAYOUT**

JOB CODE **17BNE-0071**

SHEET NUMBER **C330**

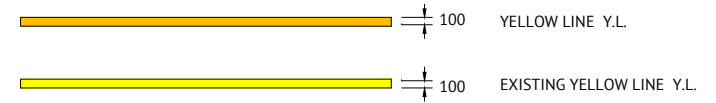
REV **C**



APRON DETAIL - ROUNDABOUT
NTS

STRUCTURAL DETAILS APPROVED	DATE
BEN LANCINI	26/06/19
RPEQ 16031	

TYPICAL LINEMARKING LEGEND



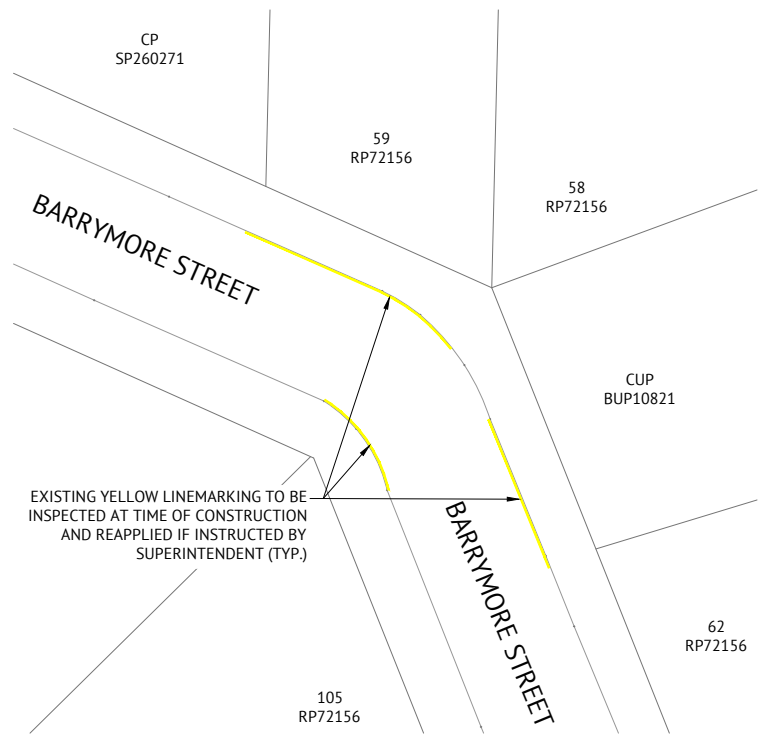
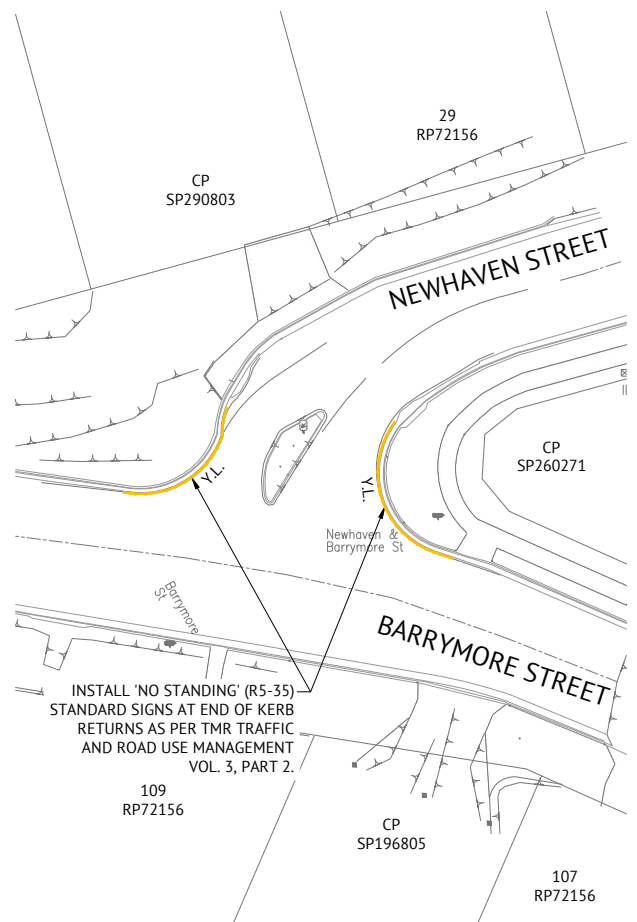
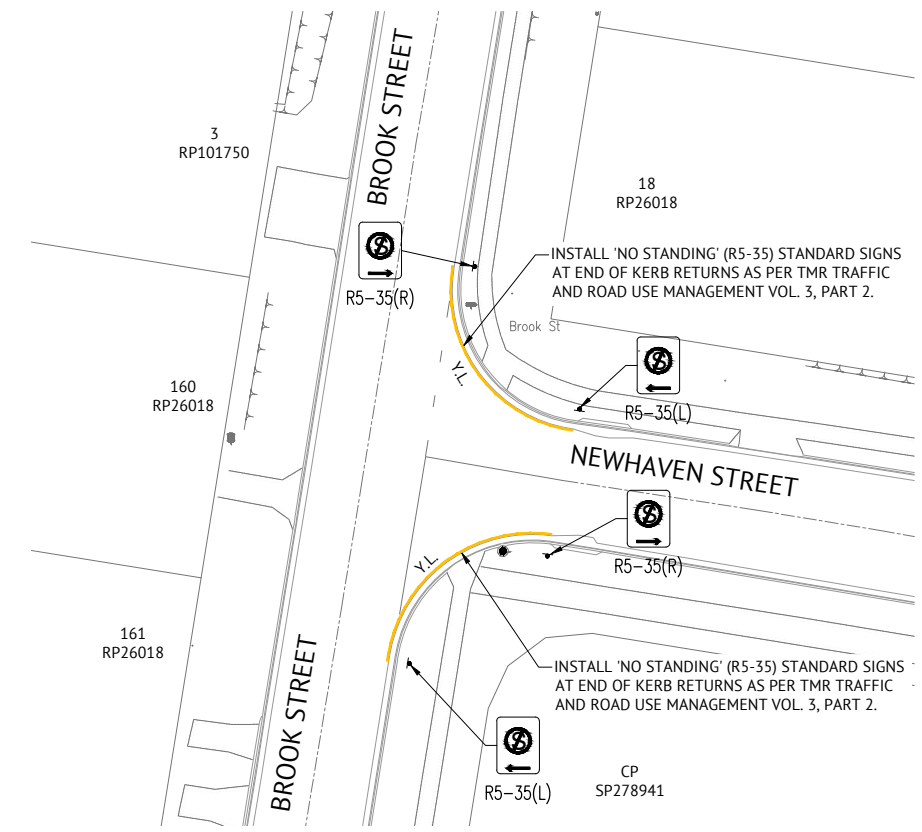
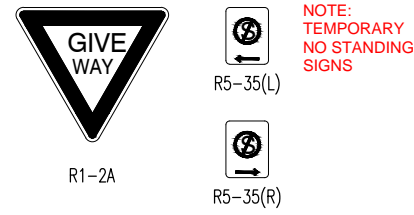
SIGNAGE NOTES

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 - 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.

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 BRISBANE CITY COUNCIL REFERENCE SPECIFICATIONS S150 AND S155. 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.

REQUIRED SIGNS



AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

- The information contained in this drawing/document is generally in compliance with approved drawings and design.
- To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.

Richard Morris RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

AS CONSTRUCTED		DESIGNED	E.LONGMIRE
09/03/21	B	CHECKED	R.BARGER
26/06/19	A	PROJECT MANAGER	T.ZETTL
DATE	REV	DESCRIPTION	REVISIONS

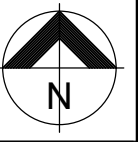
Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
T.ZETTL
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112

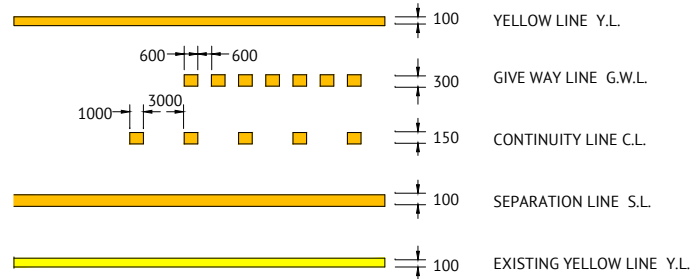
SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD
PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION
420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE
EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1

JOB CODE
17BNE-0071
SHEET NUMBER
C331
REV
B



TYPICAL LINEMARKING LEGEND



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[Signature] RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

REQUIRED SIGNS



R1-2A

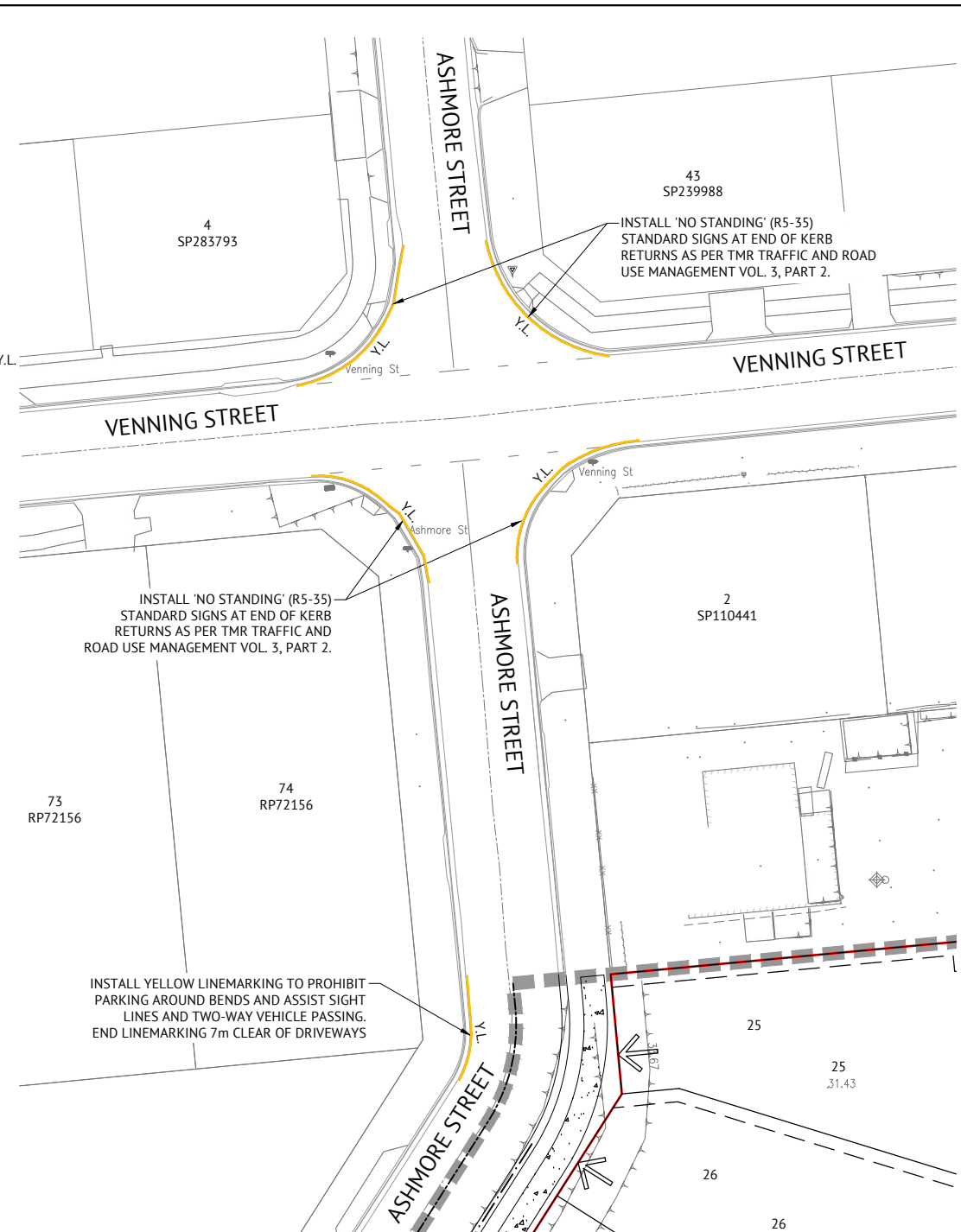
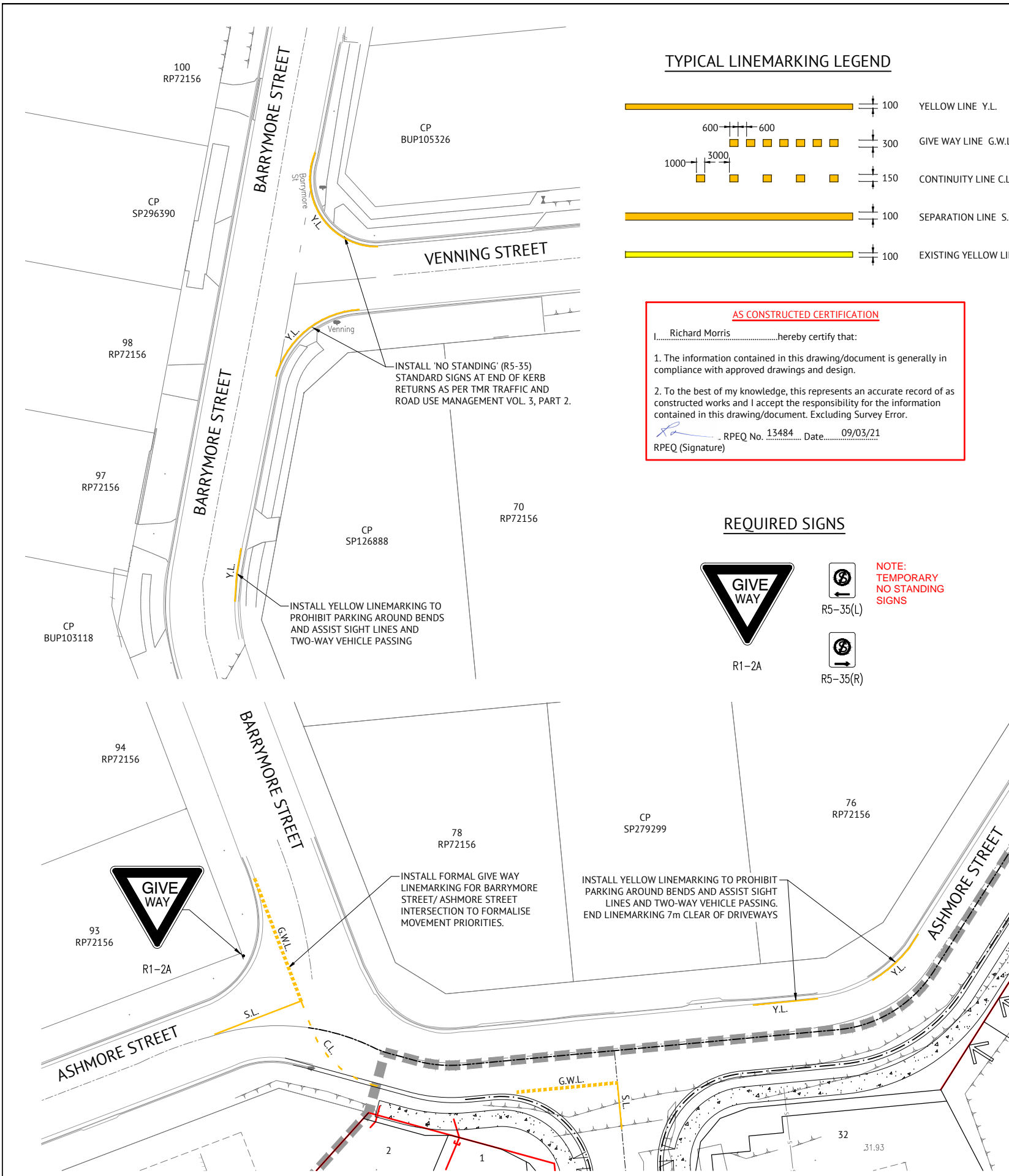


R5-35(L)



R5-35(R)

NOTE:
TEMPORARY
NO STANDING
SIGNS



SIGNAGE NOTES

- LOCATION OF SIGNS SHOWN 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:
 - BRISBANE CITY COUNCIL REFERENCE SPECIFICATION S154
 - 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.

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- NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
- ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

AS CONSTRUCTED

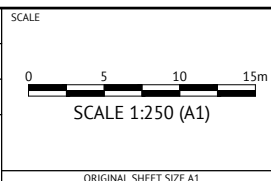
DATE	REV	DESCRIPTION	REVISIONS	BA	RIM
09/03/21	B	AS CONSTRUCTED			
26/06/19	A	ORIGINAL ISSUE			



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

DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
T.ZETTL
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

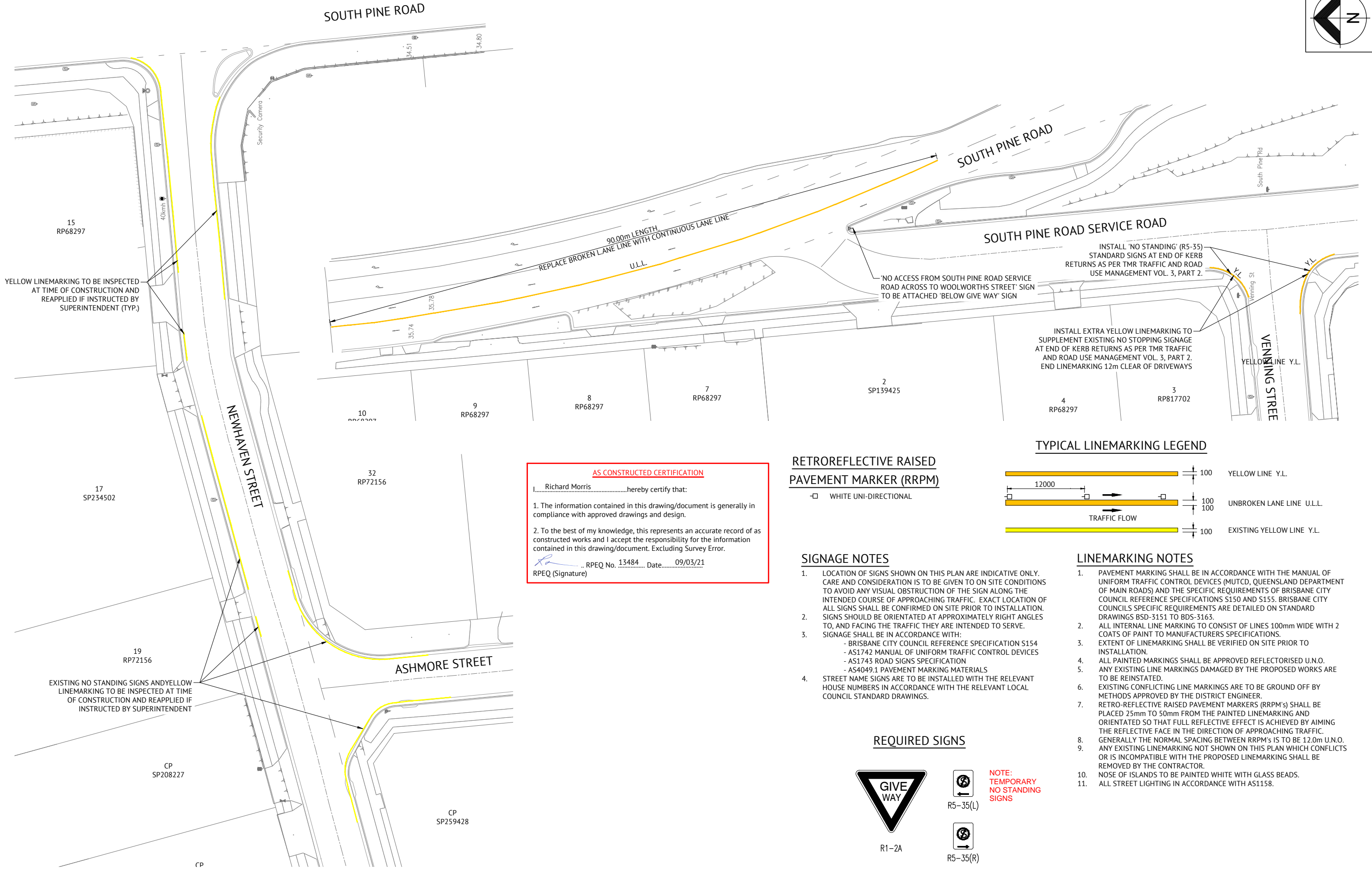
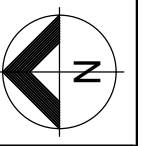
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2**

JOB CODE
17BNE-0071

SHEET NUMBER
C332

REV
B



YELLOW LINEMARKING TO BE INSPECTED AT TIME OF CONSTRUCTION AND REAPPLIED IF INSTRUCTED BY SUPERINTENDENT (TYP.)

EXISTING NO STANDING SIGNS AND YELLOW LINEMARKING TO BE INSPECTED AT TIME OF CONSTRUCTION AND REAPPLIED IF INSTRUCTED BY SUPERINTENDENT

AS CONSTRUCTED CERTIFICATION
I, Richard Morris hereby certify that:
1. The information contained in this drawing/document is generally in compliance with approved drawings and design.
2. To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.
[Signature] RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

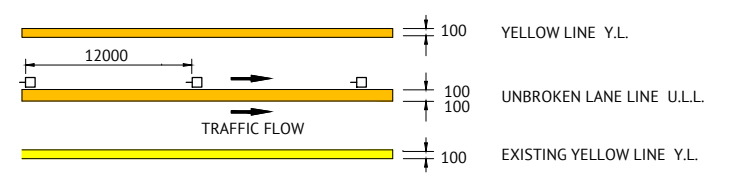
RETROREFLECTIVE RAISED PAVEMENT MARKER (RRPM)

□ WHITE UNI-DIRECTIONAL

SIGNAGE NOTES

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

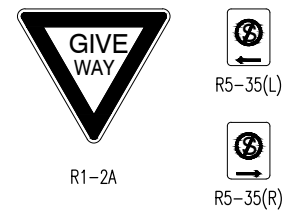
TYPICAL LINEMARKING LEGEND



LINEMARKING NOTES

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- 3. EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
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- 11. ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

REQUIRED SIGNS



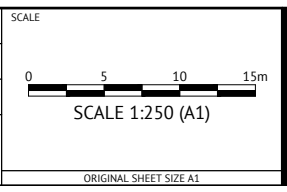
NOTE: TEMPORARY NO STANDING SIGNS

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS	BA	RIM	NIT	JCS	REC	APP
09/03/21	B	AS CONSTRUCTED							
26/06/19	A	ORIGINAL ISSUE							

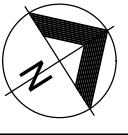
Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: E.LONGMIRE
CHECKED: R.BARGER
PROJECT MANAGER: T.ZETTL
ENGINEERING CERTIFICATION
PATRICK BRADY RPEQ 7112



CLIENT: MIRVAC QUEENSLAND PTY LTD
PROJECT: PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION: 420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE: EXTERNAL PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 3

JOB CODE: 17BNE-0071
SHEET NUMBER: C333
REV: B



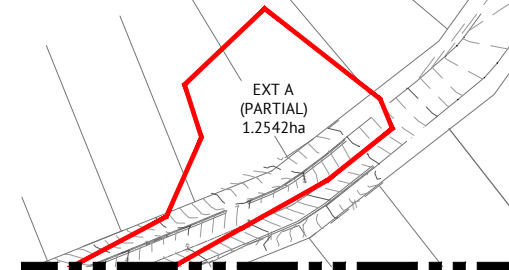
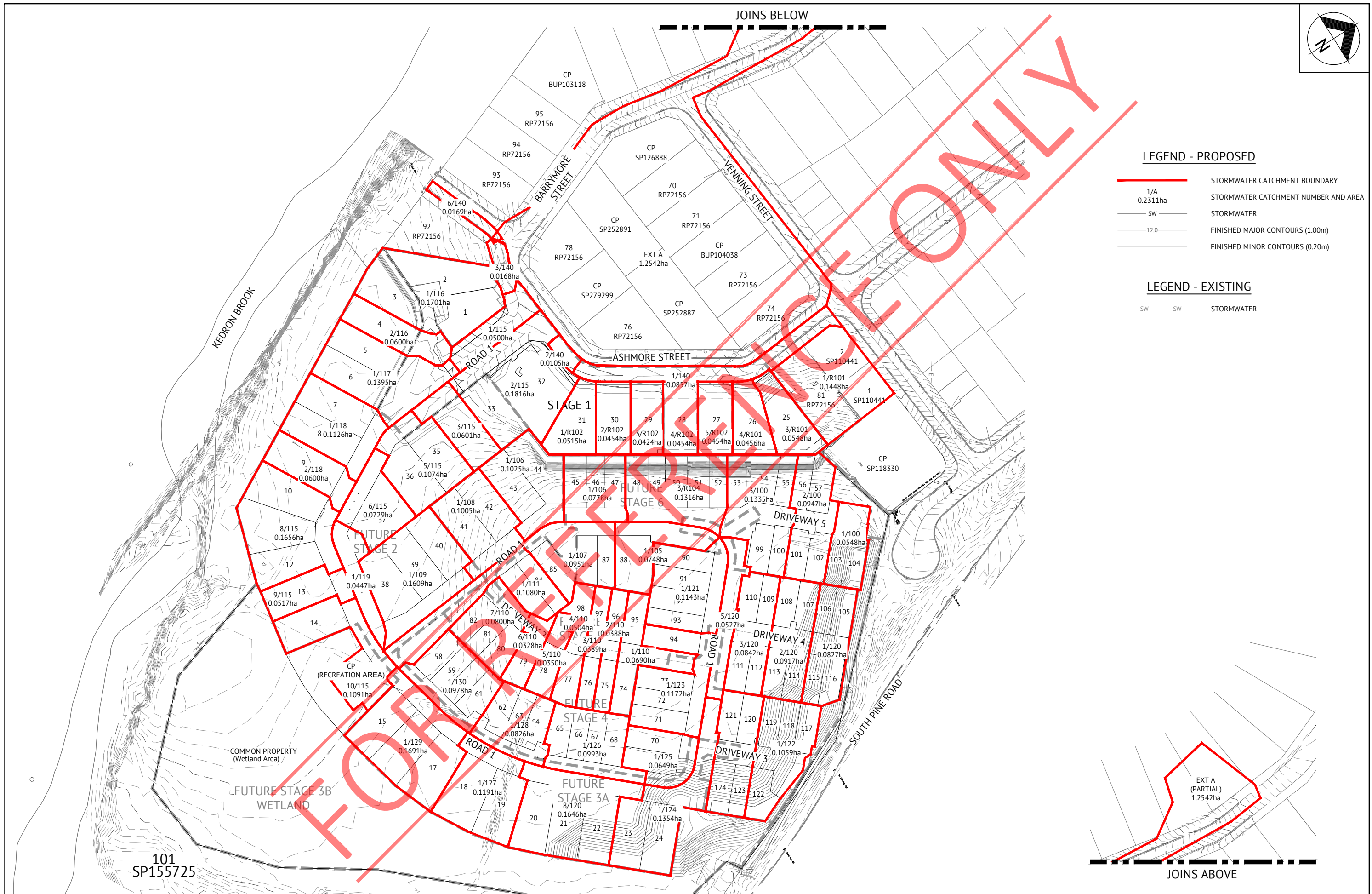
JOINS BELOW

LEGEND - PROPOSED

- STORMWATER CATCHMENT BOUNDARY
- STORMWATER CATCHMENT NUMBER AND AREA
- STORMWATER
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)

LEGEND - EXISTING

- STORMWATER



JOINS ABOVE

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	EL	JCS
28/11/19	B	CATCHMENTS AMENDED TO SUIT 10% AEP DESIGN STORM AS REQUIRED BY COUNCIL			
26/06/19	A	ORIGINAL ISSUE			
				NTT	JCS
				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
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
T.ZETTL
 ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

SCALE 1:750(A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
STORMWATER DRAINAGE CATCHMENT PLAN

JOB CODE
17BNE-0071

SHEET NUMBER	REV
C400	B

101
SP155725

COMMON PROPERTY
(Wetland Area)

FUTURE STAGE 3B
WETLAND

FUTURE STAGE 2

STAGE 1

FUTURE STAGE 6

FUTURE STAGE 4

FUTURE STAGE 3A

EXT A
(PARTIAL)
1.2542ha

STRUCTURE NAME	1/115	2/115	3/115	4/115	5/115
STRUCTURE DESCRIPTION	BCC TYPE A GULLY L.L.L: 2.4m Lintel; TYPE D K&C ON 1050mm DIA MANHOLE	BCC TYPE A GULLY L.L.L: 3.6m Lintel; TYPE D K&C	BCC TYPE A GULLY L.L.L: 2.4m Lintel; TYPE D K&C ON 1050mm DIA MANHOLE	BCC MANHOLE 1050mm DIA	TEMPORARY HEADWALL

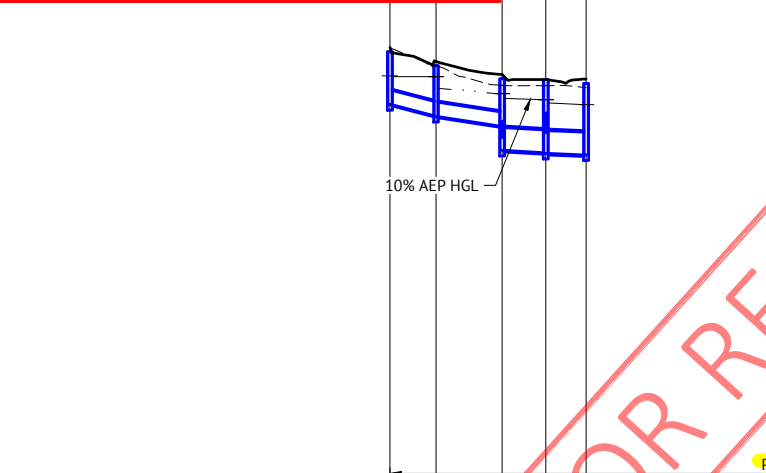
1/116	2/116	3/116	3/115
BCC FIELD INLET (ON GRADE) 900x600 H.D. GRATE	BCC FIELD INLET (ON GRADE) 900x600 H.D. GRATE	BCC MANHOLE 1050mm DIA	BCC TYPE A GULLY L.L.L: 2.4m Lintel; TYPE D K&C ON 1050mm DIA MANHOLE

AS CONSTRUCTED CERTIFICATION

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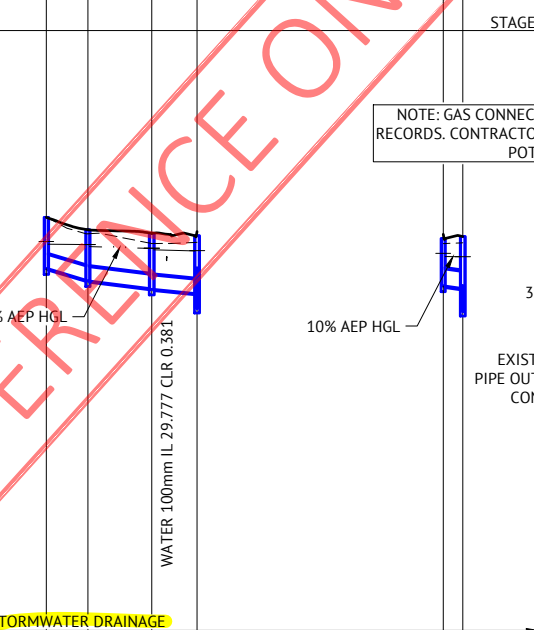
RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)



PIPE SIZE (mm)	375	375	600	600
PIPE CLASS	2	2	2	2
PIPE GRADE (%)	2.40%	1.45%	0.52%	0.37%
PIPE SLOPE (1 in X)	41.7	69.0	192.3	270.3
FULL PIPE VELOCITY (m/s)	0.23	1.47	1.18	1.44
PART FULL VELOCITY (m/s)	1.55	2.11	1.72	1.44
PIPE FLOW (cumecs)	0.026	0.162	0.334	0.406
PIPE CAPACITY AT GRADE (cumecs)	0.272	0.211	0.443	0.374
DATUM RL	13.0			

WSE IN STRUCTURE	30.513	30.491	30.045	29.882
HGL IN PIPE	30.494	30.491	30.185	30.034
DEPTH OF INVERT BELOW FSL	1.400	1.325	1.345	1.249
INVERT LEVEL	29.752	29.459	29.439	28.543
FINISHED (& EXISTING) SURFACE LEVEL	31.152 (31.255)	30.785 (30.783)	30.435 (30.263)	30.417 (30.251)
CHAINAGE	0.000	12.192	17.489	29.680

LINE 115

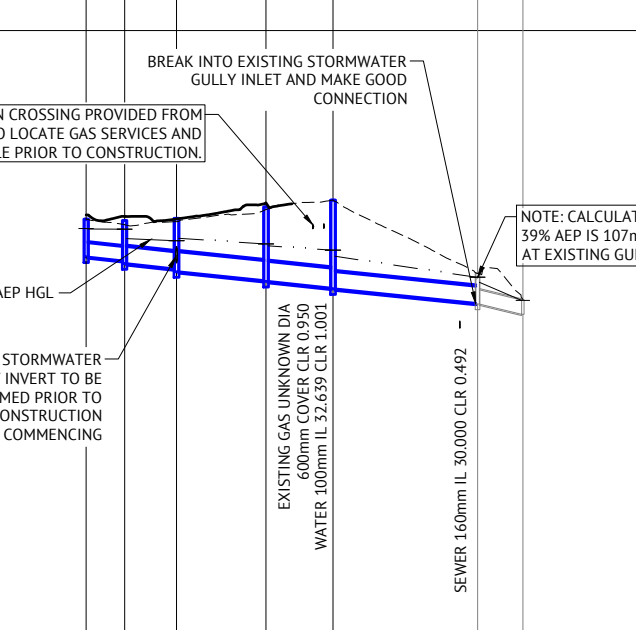


PIPE SIZE (mm)	375	375	375
PIPE CLASS	2	2	2
PIPE GRADE (%)	2.76%	1.18%	0.91%
PIPE SLOPE (1 in X)	36.3	84.5	110.0
FULL PIPE VELOCITY (m/s)	0.44	0.84	0.83
PART FULL VELOCITY (m/s)	1.95	1.72	1.55
PIPE FLOW (cumecs)	0.048	0.093	0.092
PIPE CAPACITY AT GRADE (cumecs)	0.291	0.191	0.167
DATUM RL	13.0		

WSE IN STRUCTURE	30.284	30.202	30.105
HGL IN PIPE	30.211	30.202	30.105
DEPTH OF INVERT BELOW FSL	1.360	1.355	1.460
INVERT LEVEL	29.563	29.240	29.020
FINISHED (& EXISTING) SURFACE LEVEL	30.923 (30.910)	30.595 (30.488)	30.500 (30.231)
CHAINAGE	10.987	16.898	27.885

LINE 116

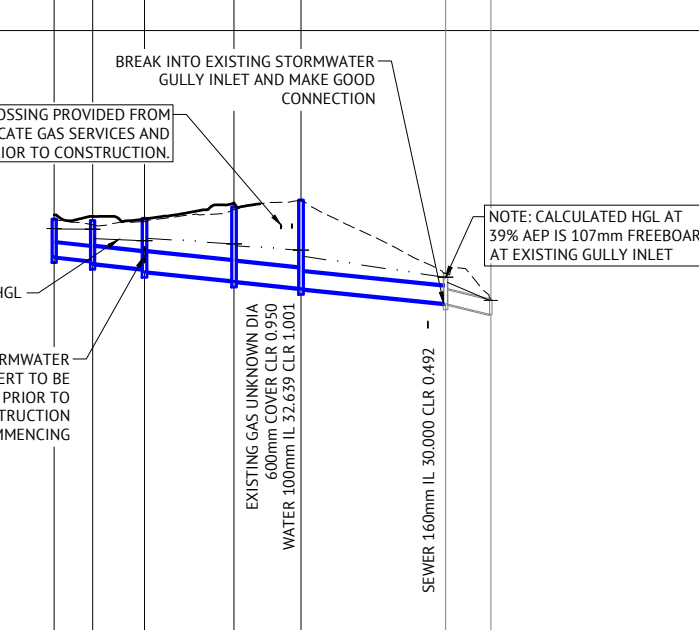
1/117	4/115
BCC TYPE A GULLY L.L.L: 2.4m Lintel; TYPE D K&C	BCC MANHOLE 1050mm DIA



PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	1.10%
PIPE SLOPE (1 in X)	90.9
FULL PIPE VELOCITY (m/s)	0.48
PART FULL VELOCITY (m/s)	1.57
PIPE FLOW (cumecs)	0.076
PIPE CAPACITY AT GRADE (cumecs)	0.299
DATUM RL	13.0

WSE IN STRUCTURE	29.972
HGL IN PIPE	29.885
DEPTH OF INVERT BELOW FSL	1.259
INVERT LEVEL	29.106
FINISHED (& EXISTING) SURFACE LEVEL	30.365 (30.229)
CHAINAGE	5.170

LINE 117

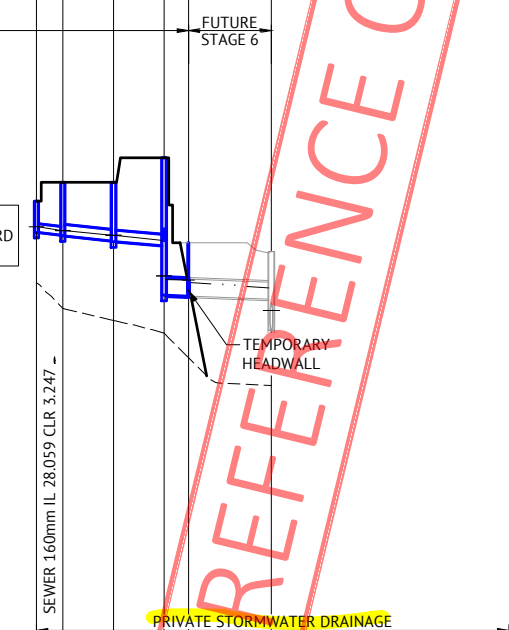


PIPE SIZE (mm)	375	450	525	525	450	375
PIPE CLASS	2	2	2	2	4	2
PIPE GRADE (%)	1.18%	1.66%	0.725%	0.993%	0.864%	2.26%
PIPE SLOPE (1 in X)	41.7	100.0	100.0	100.0	100.0	44.3
FULL PIPE VELOCITY (m/s)	0.24	1.14	1.57	1.59	2.16	3.15
PART FULL VELOCITY (m/s)	1.15	1.90	2.20	2.21	2.16	3.15
PIPE FLOW (cumecs)	0.027	0.181	0.339	0.344	0.344	0.348
PIPE CAPACITY AT GRADE (cumecs)	0.175	0.285	0.430	0.430	0.285	0.263
DATUM RL	15.0					

WSE IN STRUCTURE	32.629	32.612	32.307	32.221	32.055	31.359
HGL IN PIPE	32.615	32.612	32.307	32.221	32.055	31.359
DEPTH OF INVERT BELOW FSL	1.004	1.064	1.064	1.064	0.795	0.815
INVERT LEVEL	31.876	31.774	31.699	31.410	31.250	30.630
FINISHED (& EXISTING) SURFACE LEVEL	32.810 (32.873)	32.780 (32.698)	32.870 (32.898)	32.812 (32.812)	33.158 (33.158)	31.445 (31.438)
CHAINAGE	10.179	10.179	13.749	23.929	23.669	47.598

LINE 140

1/R101	2/R101	3/R101	4/R101	5/R101	4/100
BCC FIELD INLET - 900x600 TYPE 2 L.D. GRATE	ROOFWATER MANHOLE 900mm DIA	BCC MANHOLE 1050mm DIA	BCC MANHOLE 1050mm DIA	TEMPORARY HEADWALL	BCC MANHOLE 1350mm DIA



PIPE SIZE (mm)	225	300	300	450	450
PIPE CLASS	uPVC SN8	uPVC SN8	uPVC SN8	2	2
PIPE GRADE (%)	1.04%	1.00%	0.80%	0.37%	0.37%
PIPE SLOPE (1 in X)	96.5	100.0	125.0	270.3	270.3
FULL PIPE VELOCITY (m/s)	0.80	0.45	0.66	0.86	1.12
PART FULL VELOCITY (m/s)	1.42	1.39	1.42	1.21	1.24
PIPE FLOW (cumecs)	0.032	0.032	0.047	0.137	0.178
PIPE CAPACITY AT GRADE (cumecs)	0.054	0.114	0.102	0.173	0.173
DATUM RL	14.0				

WSE IN STRUCTURE	31.676	31.571	31.452	30.377	30.264
HGL IN PIPE	31.676	31.578	31.452	31.315	30.057
DEPTH OF INVERT BELOW FSL	0.824	1.396	1.416	2.327	1.260
INVERT LEVEL	31.526	31.454	31.434	29.865	29.760
FINISHED (& EXISTING) SURFACE LEVEL	32.350 (30.194)	32.850 (29.515)	32.850 (29.195)	33.500 (28.865)	31.250 (28.211)
CHAINAGE	6.977	13.421	20.398	33.754	62.140

LINE R101

FOR REFERENCE ONLY

AS CONSTRUCTED		BA	RM
09/03/21	F	AS CONSTRUCTED	EL
25/08/20	E	PRIVATE STORMWATER DRAINAGE NOTES ADDED	EL
30/02/20	D	AMENDED LINE 140 TO SHOW 39% AEP WITH APPROPRIATE FREEBOARD FOR BCC APPROVAL	EL
07/02/20	C	AMENDED LINE 140 AND LINE 102 AS PER BCC CHANGE APPLICATION RFI 16/12/19	EL
28/11/19	B	AMENDED SIZE OF LINE 3/115 TO 4/115, AND LINES R101-R104	EL
26/06/19	A	ORIGINAL ISSUE	EL
DATE	REV	DESCRIPTION	REC

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
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

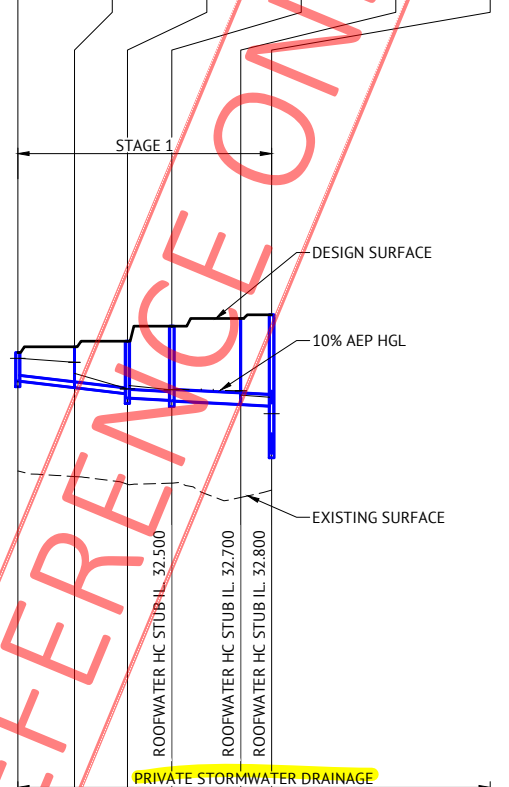
SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

JOB CODE
17BNE-0071

SHEET NUMBER
C410

REV
F

STRUCTURE NAME	1/R102	2/R102	3/R102	4/R102	5/R102	4/R101
STRUCTURE DESCRIPTION	ROOFWATER MANHOLE 900mm DIA	PIPE CONNECTION - NO STRUCTURE	ROOFWATER MANHOLE 900mm DIA	BCC MANHOLE 1050mm DIA	PIPE CONNECTION - NO STRUCTURE	BCC MANHOLE 1050mm DIA



PIPE SIZE (mm)	150	150	225	300	300
PIPE CLASS	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8
PIPE GRADE (%)	1.15%	1.15%	0.50%	0.50%	0.50%
PIPE SLOPE (1 in X)	87.0	87.0	200.0	200.0	200.0
FULL PIPE VELOCITY (m/s)	0.85	1.70	1.13	0.85	1.06
PART FULL VELOCITY (m/s)	1.21	1.70	1.13	1.25	1.30
PIPE FLOW (cumecs)	0.015	0.030	0.045	0.060	0.075
PIPE CAPACITY AT GRADE (cumecs)	0.019	0.019	0.038	0.081	0.081
DATUM RL	14.0				
WSE IN STRUCTURE	32.346	32.242	31.540	31.520	31.487
HGL IN PIPE	32.346	32.242	31.556	31.520	31.487
DEPTH OF INVERT BELOW FSL	0.755	1.078	1.389	1.960	2.272
INVERT LEVEL	31.745	31.572	31.411	31.240	31.128
FINISHED (& EXISTING) SURFACE LEVEL	32.500 (29.369)	32.650 (29.221)	32.800 (29.016)	33.200 (29.047)	33.400 (28.669)
CHAINAGE	0.000	15.000	14.000	29.000	11.750
				40.750	18.250
				59.000	67.150
					30.701

AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

- The information contained in this drawing/document is generally in compliance with approved drawings and design.
- To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.

[Signature] RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

LINE R102

AS CONSTRUCTED		BA	RIM
09/03/21	F	AS CONSTRUCTED	
25/08/20	E	PRIVATE STORMWATER DRAINAGE NOTES ADDED	EL PB
14/05/20	D	AMENDED LOCATION OF ROOFWATER PIT 4/R102 TO CLEAR SEWER HOUSE CONNECTION ON LOT 28	EL PB
07/02/20	C	LINES R103-R104 REMOVED, AMENDED LINE 102 AS PER BCC CHANGE APPLICATION RF1 16/12/19	EL JCS
28/11/19	B	AMENDED SIZE OF LINE 3/115 TO 4/115, AND LINES R101-R104	EL JCS
26/06/19	A	ORIGINAL ISSUE	NTT JCS
DATE	REV	DESCRIPTION	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
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
R.LLEWELYN
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC QUEENSLAND PTY LTD**

PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**

LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**

SHEET TITLE **STORMWATER DRAINAGE LONG SECTIONS - SHEET 2**

JOB CODE **17BNE-0071**

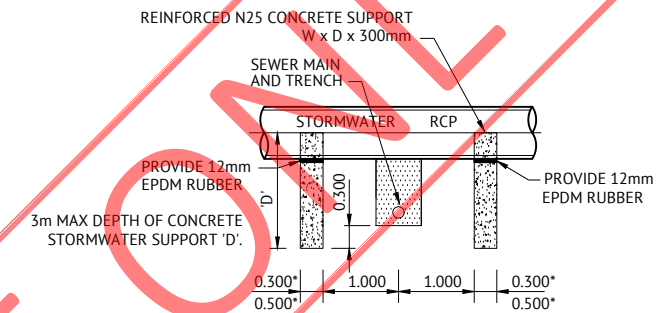
SHEET NUMBER **C411** REV **F**

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 BRISBANE CITY COUNCIL 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.
- REFER TO BCC STANDARD DRAWINGS BSD-8023, BSD-8024, BSD-8025 FOR TYPICAL ROOF SLAB REINFORCEMENT DETAILS.
- ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION. 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.
- ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
- GULLIES AND GULLY GRATES SHALL BE TO BCC STANDARD DRAWINGS BSD-8051 - BSD-8059.
- 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 STORMWATER INLETS AND OUTLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH BCC STD DWG BSD-8101 INCLUDING DOWNTURN NIB WALL UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
- REFER TO BRISBANE CITY COUNCIL STANDARD DRAWINGS FOR PIPE BEDDING DETAILS.

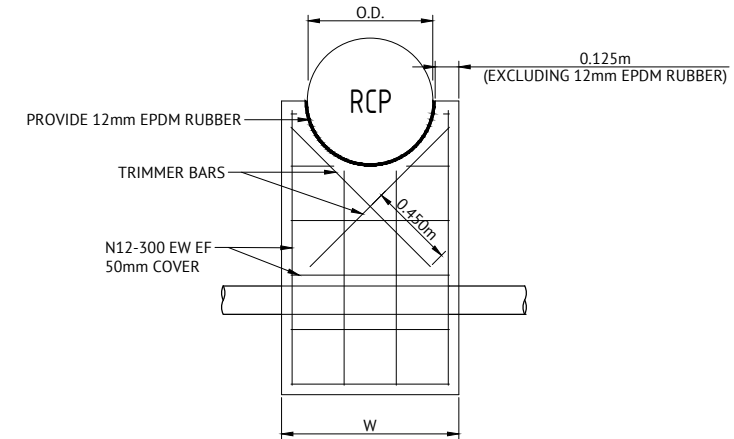
REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

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



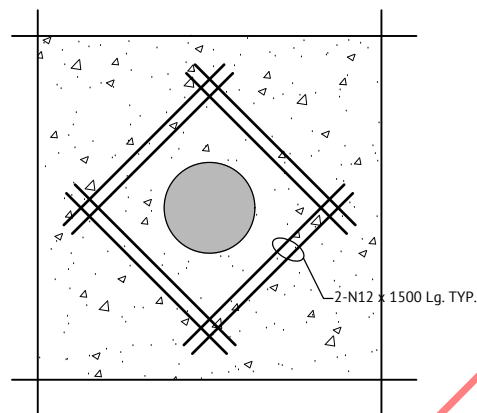
TYPICAL CONCRETE STORMWATER SUPPORT PLAN VIEW

- CONCRETE STORMWATER SUPPORT NOTES:**
- 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



TYPICAL CONCRETE STORMWATER SUPPORT SECTION DETAIL

SCALE 1:20



TYPICAL DETAIL

GRADED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR REFERENCE

STRUCTURAL DETAILS APPROVED	DATE
BEN LANCINI	26/06/19
RPEQ 16051	

APPROVAL ISSUE - NOT FOR CONSTRUCTION

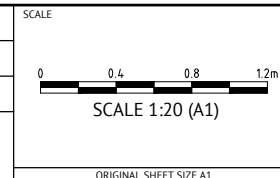
DATE	REV	DESCRIPTION	REVISIONS	NTT	JCS
26/06/19	A	ORIGINAL ISSUE		NTT	JCS
				REC	APP



BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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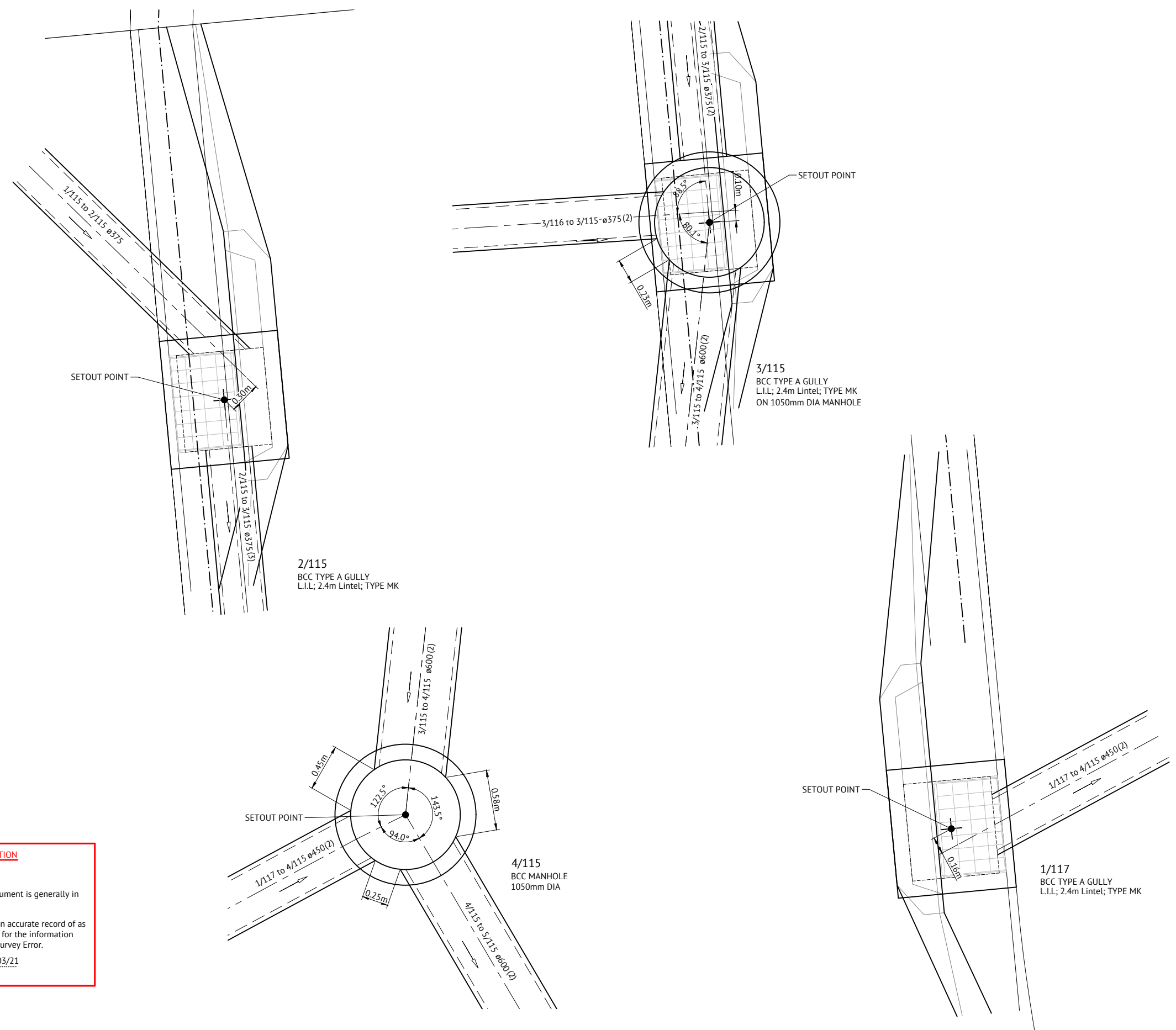
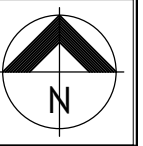
DESIGNED
E.LONGMIRE
CHECKED
R.BARGER
PROJECT MANAGER
T.ZETTL
ENGINEERING CERTIFICATION

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC QUEENSLAND PTY LTD**
PROJECT **PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)**
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
SHEET TITLE **STORMWATER DRAINAGE NOTES AND DETAILS**

JOB CODE **17BNE-0071**
SHEET NUMBER **C420** REV **A**



2/115
BCC TYPE A GULLY
L.I.L.; 2.4m Lintel; TYPE MK

3/115
BCC TYPE A GULLY
L.I.L.; 2.4m Lintel; TYPE MK
ON 1050mm DIA MANHOLE

4/115
BCC MANHOLE
1050mm DIA

1/117
BCC TYPE A GULLY
L.I.L.; 2.4m Lintel; TYPE MK

AS CONSTRUCTED CERTIFICATION

I, Richard Morris hereby certify that:

- The information contained in this drawing/document is generally in compliance with approved drawings and design.
- To the best of my knowledge, this represents an accurate record of as constructed works and I accept the responsibility for the information contained in this drawing/document. Excluding Survey Error.

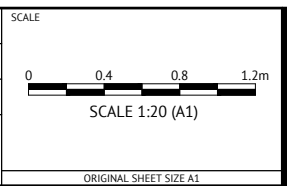
Richard Morris RPEQ No. 13484 Date: 09/03/21
RPEQ (Signature)

AS CONSTRUCTED

DATE	REV	DESCRIPTION	REVISIONS	REC	APP
09/03/21	D	AS CONSTRUCTED		BA	RJM
07/02/20	C	PIPE NOTATION AMENDED		EL	JCS
28/11/19	B	STRUCTURE DETAIL PIPE LOCATIONS AMENDED		EL	JCS
26/06/19	A	ORIGINAL ISSUE		NTT	JCS

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

DESIGNED
E.LONGMIRE
 CHECKED
R.BARGER
 PROJECT MANAGER
T.ZETTL
 ENGINEERING CERTIFICATION
 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QUEENSLAND PTY LTD

PROJECT
PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)

LOCATION
420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS

JOB CODE
17BNE-0071

SHEET NUMBER
C430

REV
D

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN							DRAIN DESIGN							HEADLOSSES										PART FULL			DESIGN LEVELS						
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tr	I	C	A	CA	Q	Qg	Qb	tc	I	CA	Qp	L	S	VF=Q/A	CHARTS USED	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				mm/h	ha		l/s	l/s			m	%	mm	m	%	m/s	min	Qg/Qo	Du/Do	S/Do	m	m	m								m	m	%	m	m
2/R102	3/R102											5.23	212	0.000	30	30	14.000	1.150	150	uPVC SN8	1.70	0.21	33				0.147	2.00	0.294	1.70	0.294	2.81	0.389	0.150	1.70	1.7	31.722	31.561	31.948	31.556	32.242	32.650	2/R102
3/R102	4/R102											5.44	209	0.000	45	45	15.000	0.500	225	uPVC SN8	1.13	0.26	33	0.00	0.67	1.00	0.065	-1.34	-0.088	-0.088	0.72	0.108	0.225	1.13	1.14	31.540	31.465	31.627	31.520	31.540	32.800	3/R102	
4/R102	5/R102											5.71	206	0.000	60	60	15.000	0.500	300	uPVC SN8	0.85	0.22	33	0.00	0.75	1.00	0.037	-0.25	-0.009	-0.009	0.28	0.041	0.192	1.25	1.26	31.520	31.445	31.529	31.487	31.520	33.200	4/R102	
5/R102	4/R101											5.93	203	0.000	75	75	8.150	0.500	300	uPVC SN8	1.06	0.12	33				0.057	2.00	0.115	0.115	0.68	0.042	0.228	1.30	1.3	31.445	31.404	31.373	31.317	31.487	33.400	5/R102	

FOR REFERENCE

APPROVAL ISSUE - NOT FOR CONSTRUCTION			
07/02/20	C	AMENDED AS PER RCC CHANGE APPLICATION RFI 16/12/19	EL JCS
28/11/19	B	STORMWATER AMENDED TO 10% AEP DESIGN STORM	EL JCS
26/06/19	A	ORIGINAL ISSUE	NTT JCS
DATE	REV	DESCRIPTION	REC APP



BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
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DESIGNED E.LONGMIRE
CHECKED R.BARGER
PROJECT MANAGER T.ZETTL
ENGINEERING CERTIFICATION

SCALE	ORIGINAL SHEET SIZE A1
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CLIENT	MIRVAC QUEENSLAND PTY LTD
PROJECT	PROPOSED DEVELOPMENT - STAGE 1 (11 LOTS)
LOCATION	420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE	STORMWATER CALCULATIONS 10% AEP STORM - SHEET 2

JOB CODE	17BNE-0071
SHEET NUMBER	C441
REV	C

