



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

ADDITIONAL BCC PERMITS
Obtain all relevant BCC Permits or Certificates of Assessment as may be required by the conditions of the Development Permit or BCC Local Laws, including:
Temporary Lane / Road Closures
Permit to Occupy Road (Work Zones)
Permit to Work on Council Property

NEIGHBOURING PROPERTY CONSENT
This approval does not authorise or give permission to enter onto, under or over any neighbouring private properties to survey or carry out any works without any prior consultation or without the prior consent of the relevant land or property owners.
(This includes but is not limited to any work by utility providers with any overhead lines, power lines, gas pipes, etc.)

REPAIR DAMAGE TO COUNCIL INFRASTRUCTURE
If at any time during the construction phase of the approved development, damage to the existing kerb and channel, footpath or roadway creates unsafe, unreasonable and/or not fit for purpose conditions as assessed by Council, the contractor is to carry out repairs as directed by Asset Services.

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- PAD LEVEL
- RETAINING WALL HEIGHT RANGE
- BLOCK 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
- WETLAND BOUNDARY (EXISTING)

LEGEND - EXISTING

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

APPROVED PLAN
Brisbane City Council
21/08/2019
APPROVED PLAN ONLY REFERS TO:
 Earthworks
 Stormwater
 Roadworks
 Traffic Functional Layout
 Traffic Signals
 Construction Management Plan
 WSUD Devices
 Signs and Linemarking
Other:

LODGED
04/07/2019
BCC DS

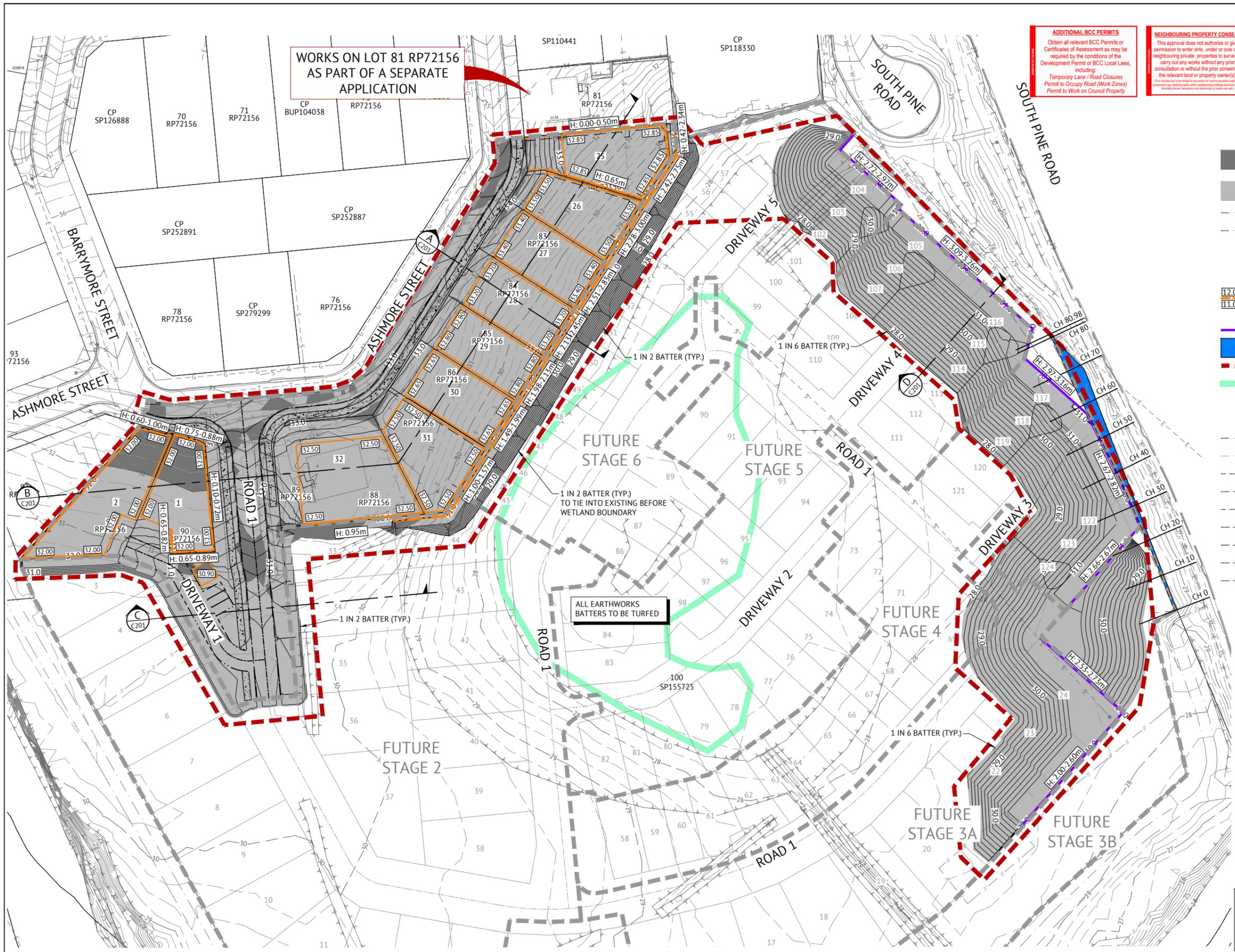
EARTHWORKS VOLUMES

CUT = -213m³
FILL = 21,191m³
BALANCE = +20,977m³
(* EXPORT, *+ IMPORT)

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

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.



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(This includes but is not limited to any works for utility installation, earth retention, retaining walls, temporary road opening or road closure.)

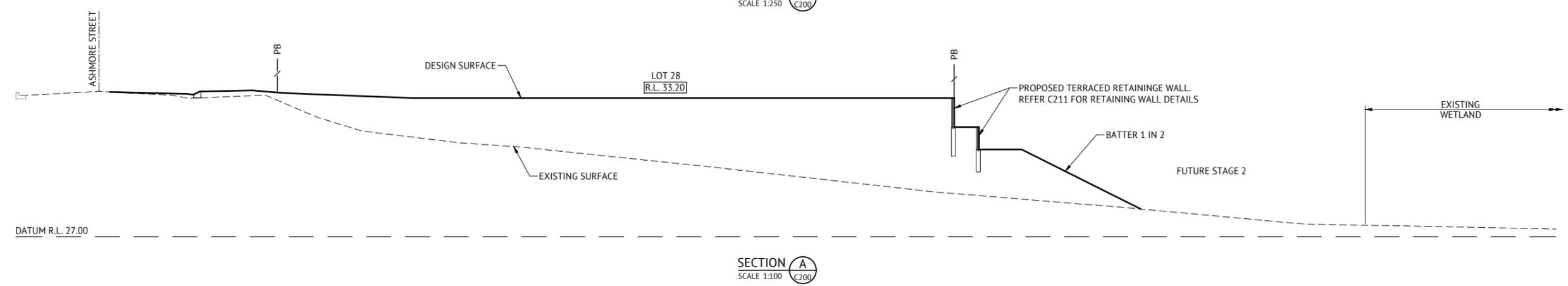
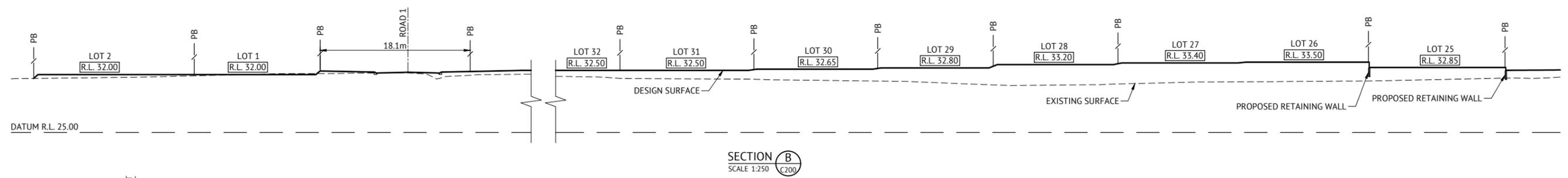
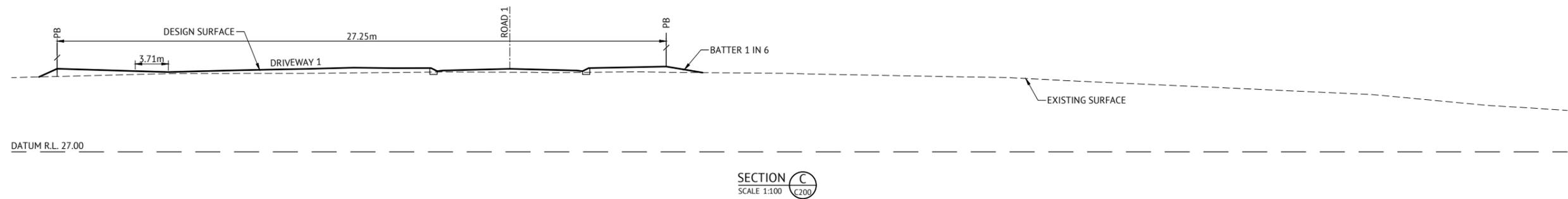
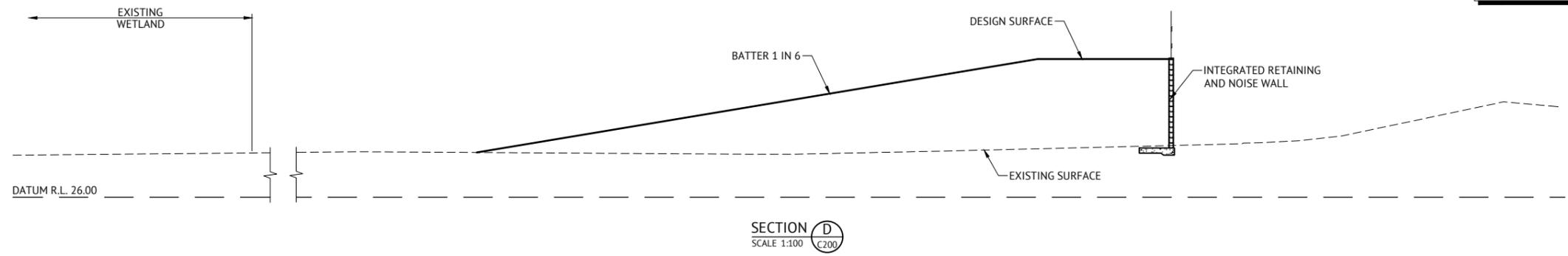
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APPROVED PLAN
 Brisbane City Council
 21/08/2019

APPROVED PLAN ONLY REFERS TO:

- Earthworks
- Stormwater
- Roadworks
- Traffic Functional Layout
- Traffic Signals
- Construction Management Plan
- WSUD Device(s)
- Signs and Linemarking

Other:



APPROVAL ISSUE - NOT FOR CONSTRUCTION

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

JOSHUA STONE
RPEQ 15187

SCALE

0 5 10 15m

SCALE 1:250 (A1)

0 2 4 6m

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
BULK EARTHWORKS AND FINISHED SURFACE SECTIONS

JOB CODE
17BNE-0071

SHEET NUMBER
C201

REV
A

NOTES

- 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.
- ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL ONE' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES AND AS3798.
- EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
- ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

TESTING

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

EARTHWORKS TESTING

- COMPACTION TESTS

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

- QUALITY TESTS
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
- SUBGRADE TESTS
THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE 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

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

CONDUITS

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

FILL MANAGEMENT

- ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
- THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
- ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
- PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
- DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
- 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.

- 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.
- 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'.
- THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
- NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
- WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
- ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON DRAWING C701.
- ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

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APPROVED PLAN
Brisbane City Council
21/08/2019

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- Roadworks
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- Signs and Linemarking

Other:

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	NTT REC	JCS APP
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

JOSHUA STONE RPEQ 15187

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**

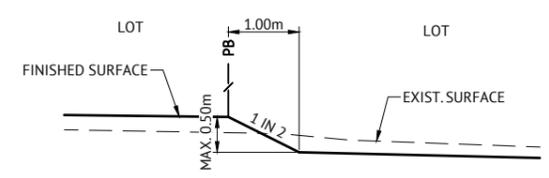
JOB CODE **17BNE-0071**

SHEET NUMBER **C210** REV **A**

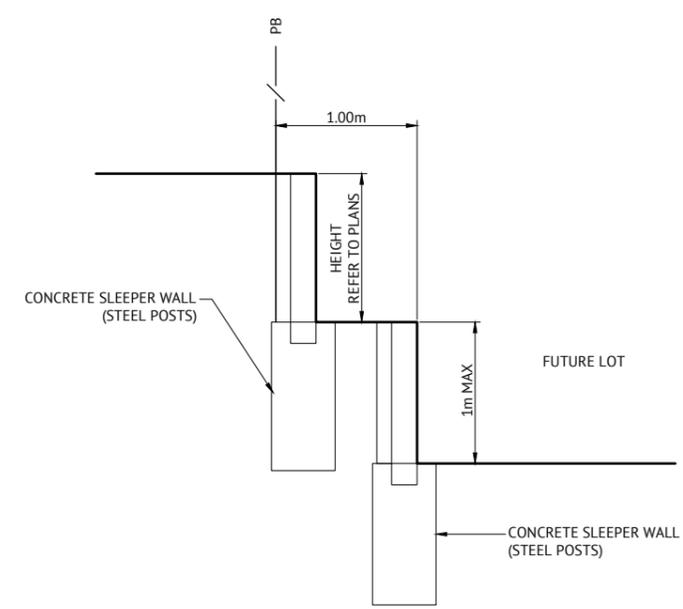
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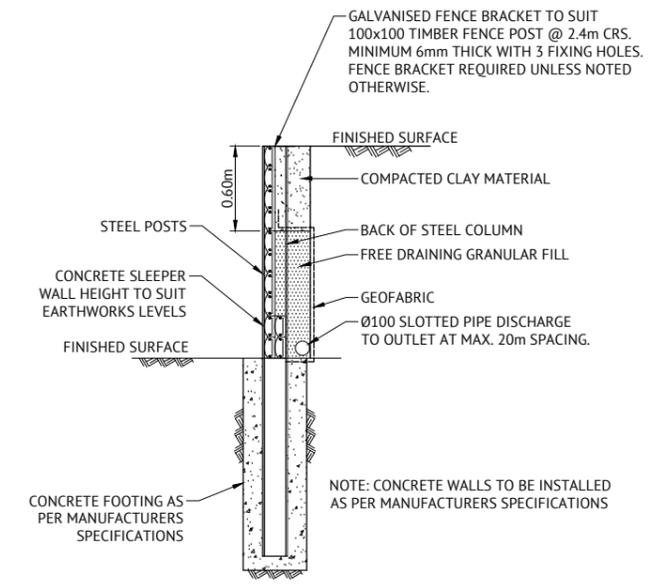
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TYPICAL EARTHWORKS BATTER BETWEEN LOTS
 SCALE 1:50



TYPICAL TERRACED CONCRETE SLEEPER RETAINING WALL
 SCALE 1:25



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

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 Brisbane City Council
 21/08/2019

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Other:

- NOTES**
- TO BE READ IN CONJUNCTION WITH DRAWING C001 AND EARTHWORKS DRAWINGS.
 - CONTRACTOR TO PROVIDE STRUCTURAL CERTIFICATION FOR RETAINING WALLS DESIGN AND CONSTRUCTION.
 - 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.
 - CONTRACTOR SHALL REFER TO ALL LATEST SERVICE DRAWINGS TO ENSURE PROVISIONS ARE MADE FOR ALL PROPERTY SERVICE CONNECTIONS UNDER RETAINING WALLS.
 - FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	NTT REC	JCS APP
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

 JOSHUA STONE RPEQ 15187

SCALE
 0 1 2 3m
 SCALE 1:50 (A1)
 0 0.5 1.0 1.5m
 SCALE 1:25 (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 NOTES AND DETAILS - SHEET 2

JOB CODE
17BNE-0071

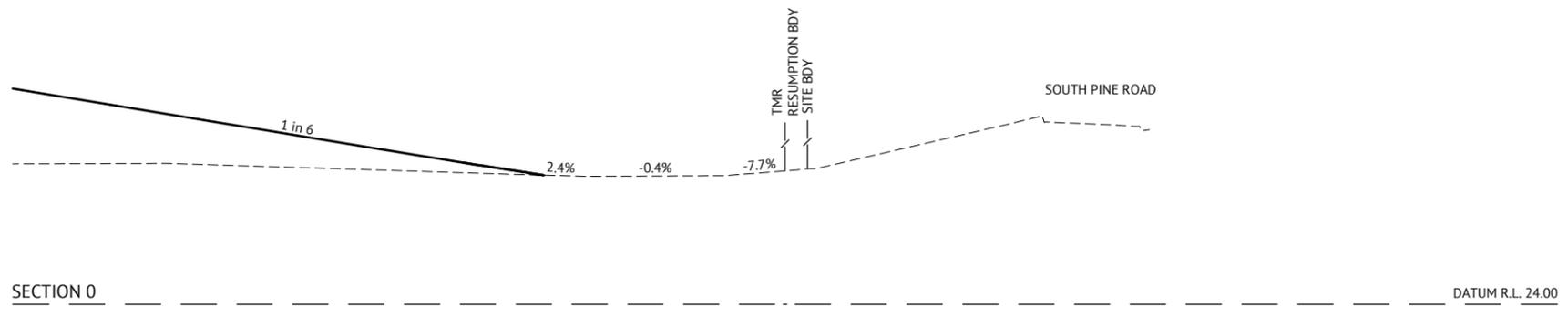
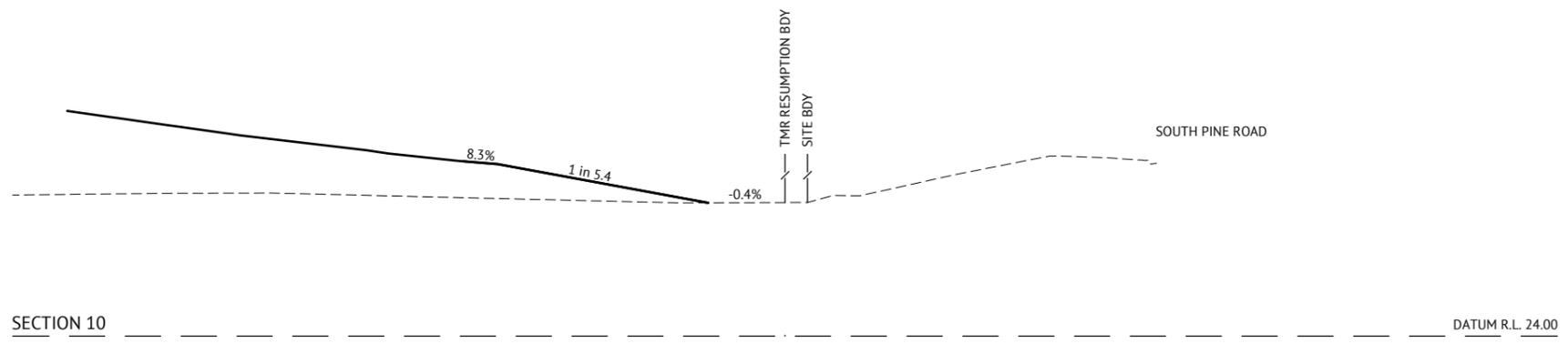
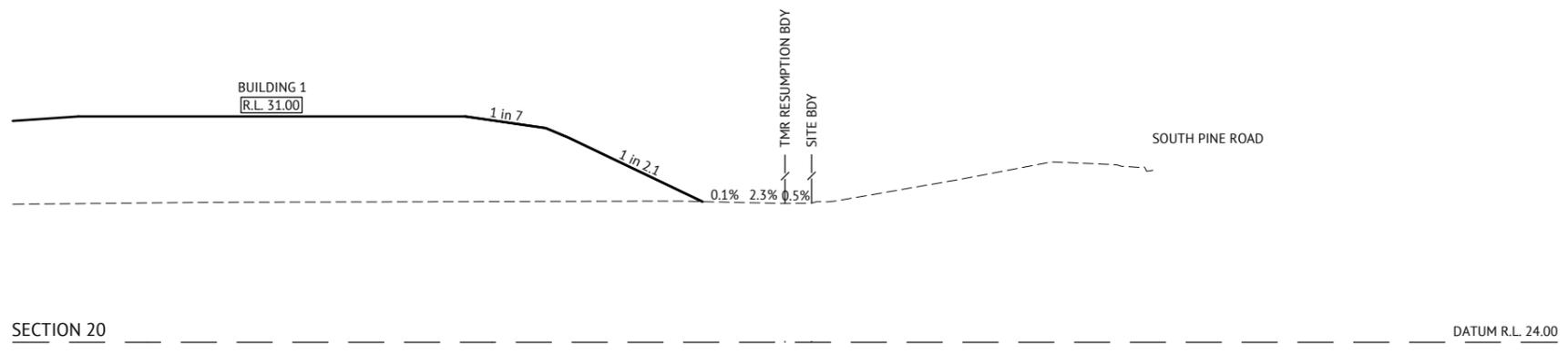
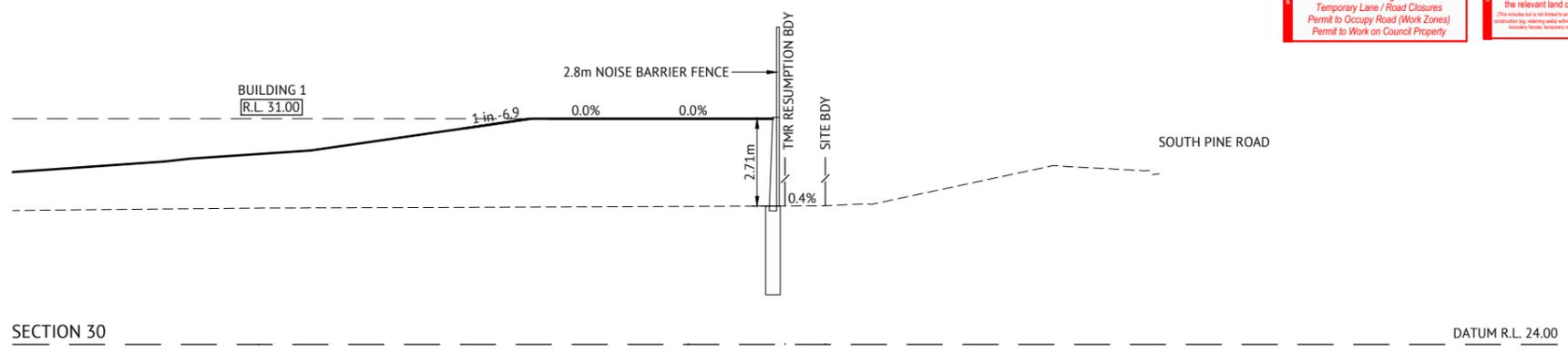
SHEET NUMBER
C211

REV
A

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 Brisbane City Council
 21/08/2019

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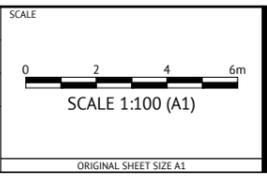
Other:

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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: **TMR EARTHWORKS CROSS SECTIONS - SHEET 1**

JOB CODE: **17BNE-0071**

SHEET NUMBER: **C212**

REV: **A**

PROPOSED DEVELOPMENT - STAGE 2, 3A & 4A (54 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 7:00am to 6:00pm
SUNDAY OR PUBLIC HOLIDAY NO WORK PERMITTED

PRE-CONSTRUCTION & APPROVALS

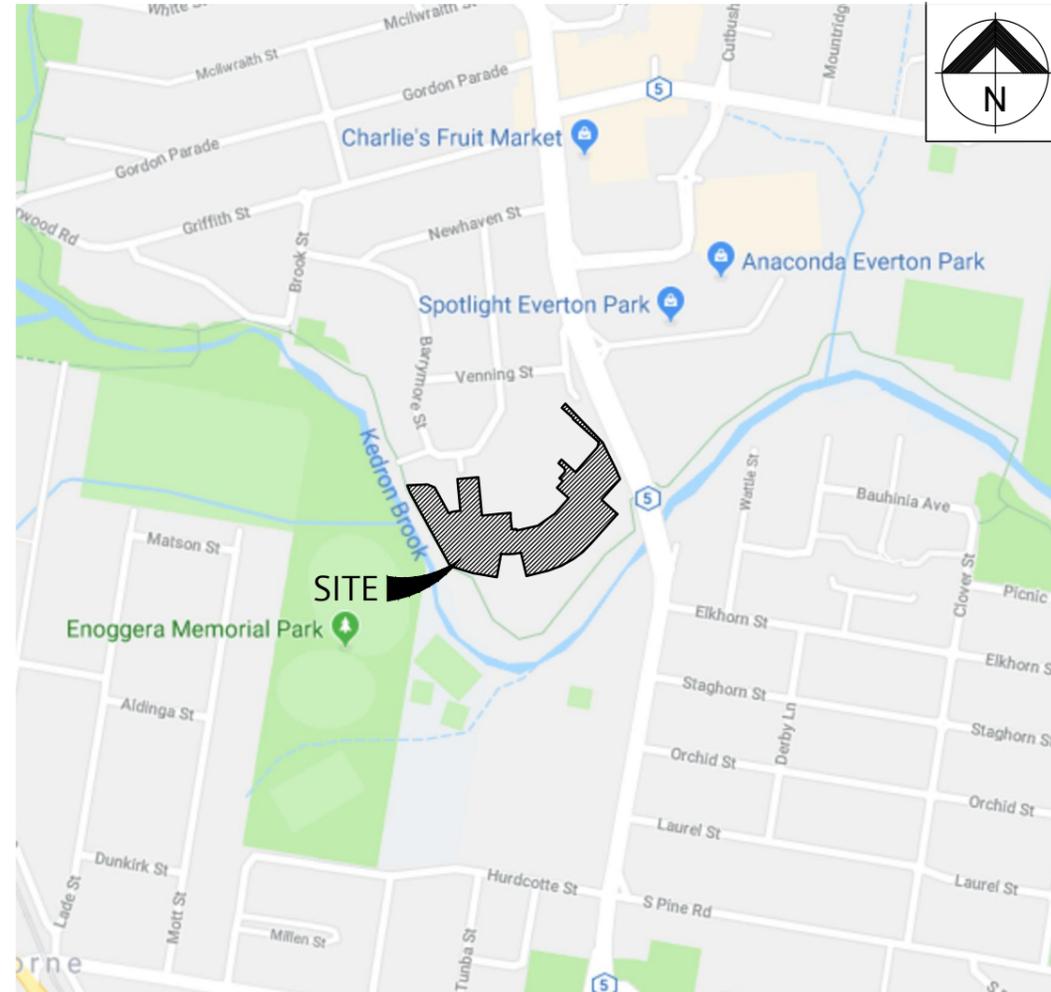
- NO LOCATING/POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE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

WORKPLACE HEALTH 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
C200	BULK EARTHWORKS LAYOUT PLAN
C201	BULK EARTHWORKS AND FINISHED SURFACE SECTIONS
C210	BULK EARTHWORKS NOTES AND DETAILS
C300	ROADWORKS NOTES AND DETAILS
C310	ROAD 1 LONGITUDINAL SECTION
C311	ROAD 1, DRIVEWAY 2 & DRIVEWAY 3 LONG SECTIONS
C312	ROAD 1 CROSS SECTIONS - SHEET 1
C313	ROAD 1 CROSS SECTIONS - SHEET 2
C314	ROAD 1, DRIVEWAY 2 & DRIVEWAY 3 CROSS SECTIONS
C320	INTERSECTION DETAILS PLAN - SHEET 1
C321	INTERSECTION DETAILS PLAN - SHEET 2
C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT
C400	STORMWATER DRAINAGE CATCHMENT PLAN
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C412	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3
C413	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1
C431	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2
C440	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 1
C441	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 2
C442	STORMWATER CALCULATIONS 2% AEP STORM - SHEET 1
C443	STORMWATER CALCULATIONS 2% AEP STORM - SHEET 2
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN
C520	SEWERAGE LONG SECTION
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN AND DETAILS
C700	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE
C710	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE
C720	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE
C730	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1
C731	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2
C732	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 3
C733	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 4
C734	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 5

SURVEY ORIGIN

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

SITE AREA

25.059m²

REAL PROPERTY DESCRIPTION

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.



ENGINEERING CERTIFICATION JOSHUA STONE RPEQ 15187	DATE	JOB CODE 17BNE-0071	SHEET NUMBER C001	REVISION A
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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 INIURT 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

05/07/19	A	ORIGINAL ISSUE	NTT	JCS
DATE	REV	DESCRIPTION	REC	APP
REVISIONS				



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

JOSHUA STONE RPEQ 15187

SCALE
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QUEENSLAND PTY LTD
PROJECT
PROPOSED DEVELOPMENT - STAGE 2, 3A & 4A (54 LOTS)
LOCATION
420 SOUTH PINE ROAD - EVERTON PARK
SHEET TITLE
SAFETY IN DESIGN SHEET

JOB CODE
17BNE-0071
SHEET NUMBER
C002
REV
A



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.20m)
- PAD LEVEL
- RETAINING WALL HEIGHT RANGE
- CONCRETE SLEEPER RETAINING WALL
- CAST-IN-SITU CONCRETE RETAINING WALL
- MASONRY RETAINING WALL
- TEMPORARY RETAINING WALL
- WORKS BOUNDARY
- WETLAND BOUNDARY (EXISTING)

LEGEND - EXISTING

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

EARTHWORKS VOLUMES

CUT = 124m³
 FILL = 36,292m³
 BALANCE = +36,168m³
 ("-" 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.

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	NTT REC	JCS APP
05/07/19	A	ORIGINAL ISSUE		

Premise

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 CHECKED: R.BARGER
 PROJECT MANAGER: T.ZETTL
 ENGINEERING CERTIFICATION

JOSHUA STONE RPEQ 15187

SCALE

0 10 20 30m

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QUEENSLAND PTY LTD

PROJECT: PROPOSED DEVELOPMENT - STAGE 2, 3A & 4A (54 LOTS)

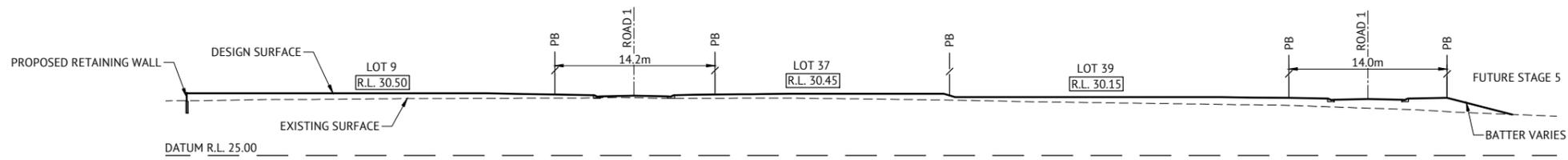
LOCATION: 420 SOUTH PINE ROAD - EVERTON PARK

SHEET TITLE: BULK EARTHWORKS LAYOUT PLAN

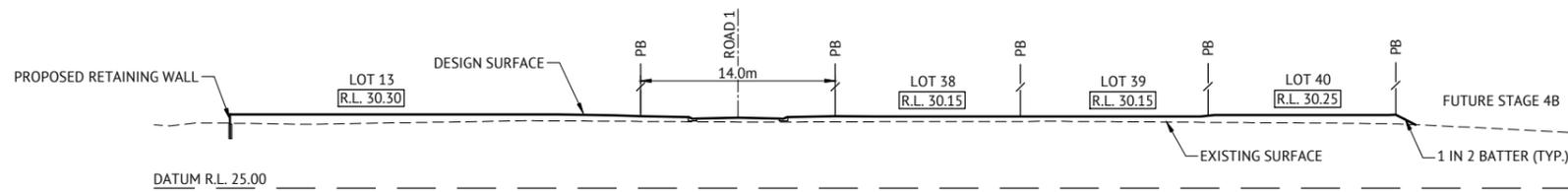
JOB CODE: 17BNE-0071

SHEET NUMBER: C200

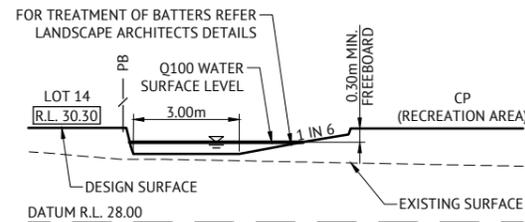
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A SECTION
C200 SCALE 1:250



B SECTION
C200 SCALE 1:250



C SECTION
C200 SCALE 1:100

APPROVAL ISSUE - NOT FOR CONSTRUCTION

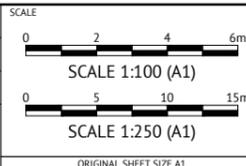
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ENGINEERING CERTIFICATION

JOSHUA STONE RPEQ 15187



CLIENT **MIRVAC QUEENSLAND PTY LTD**
PROJECT **PROPOSED DEVELOPMENT - STAGE 2, 3A & 4A (54 LOTS)**
LOCATION **420 SOUTH PINE ROAD - EVERTON PARK**
SHEET TITLE **BULK EARTHWORKS AND FINISHED SURFACE SECTIONS**

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

NOTES

- 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.
- ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL ONE' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES AND AS3798.
- EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
- ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

TESTING

- 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 SOILTESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

DUST

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

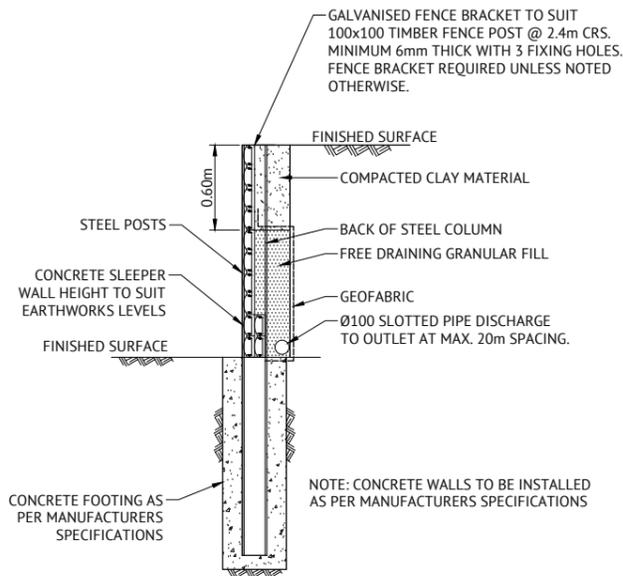
CONDUITS

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

FILL MANAGEMENT

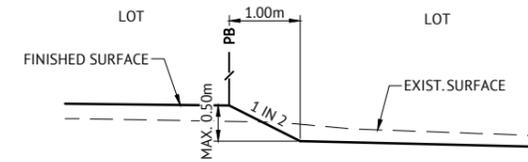
- ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
- THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
- ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
- PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
- DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
- 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.

- 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.
- 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'.
- THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
- NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
- ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON DRAWING C701.
- ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.



TYPICAL CONCRETE SLEEPER RETAINING WALL DETAIL - STEEL POSTS

SCALE 1:25



TYPICAL EARTHWORKS BATTER BETWEEN LOTS

SCALE 1:50

NOTES

- TO BE READ IN CONJUNCTION WITH DRAWING C001 AND EARTHWORKS DRAWINGS.
- CONTRACTOR TO PROVIDE STRUCTURAL CERTIFICATION FOR RETAINING WALLS DESIGN AND CONSTRUCTION.
- 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.
- CONTRACTOR SHALL REFER TO ALL LATEST SERVICE DRAWINGS TO ENSURE PROVISIONS ARE MADE FOR ALL PROPERTY SERVICE CONNECTIONS UNDER RETAINING WALLS.
- FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.

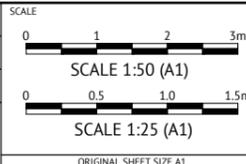
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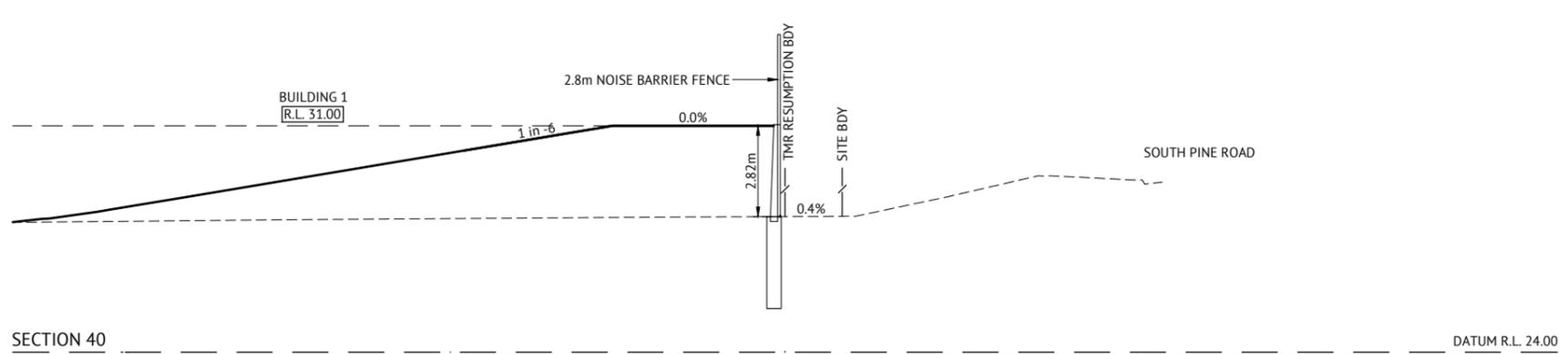
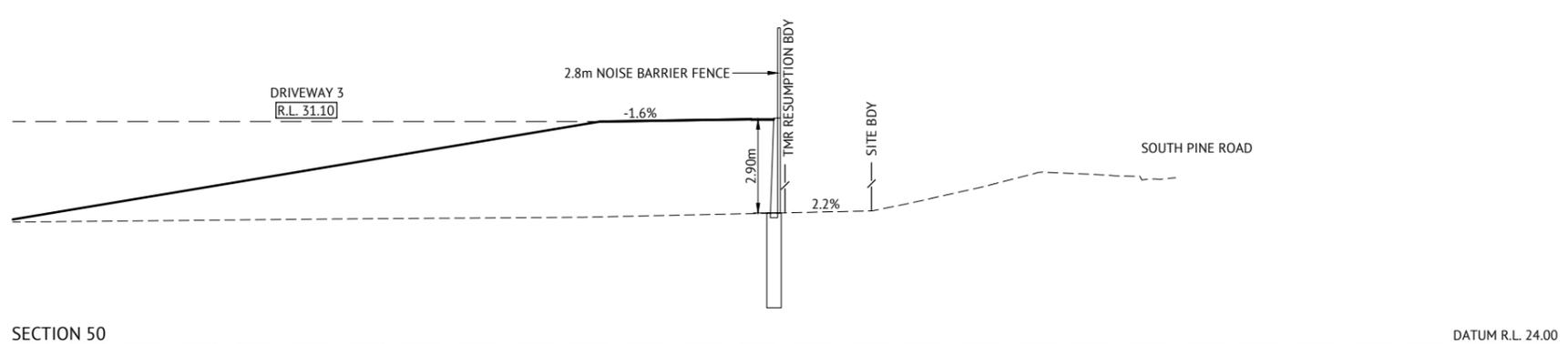
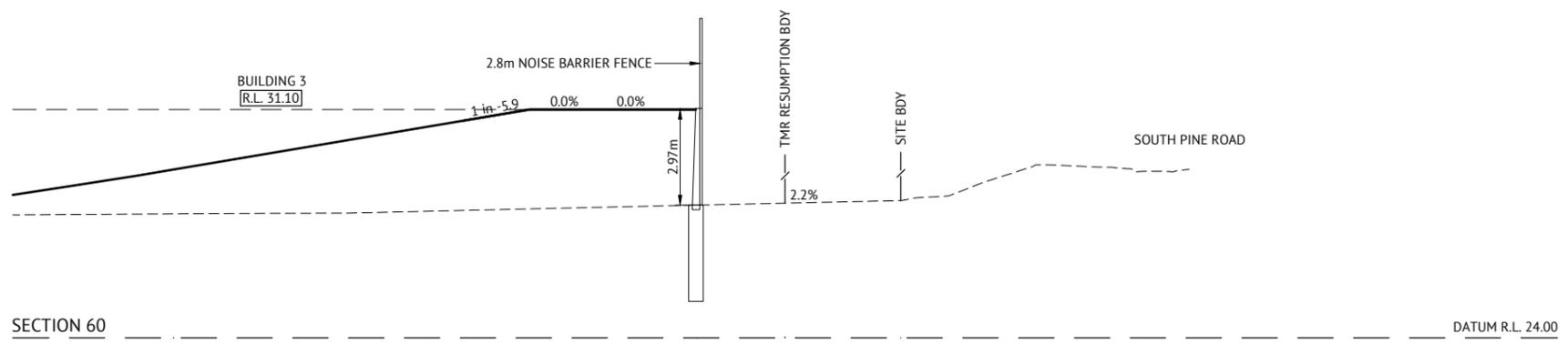
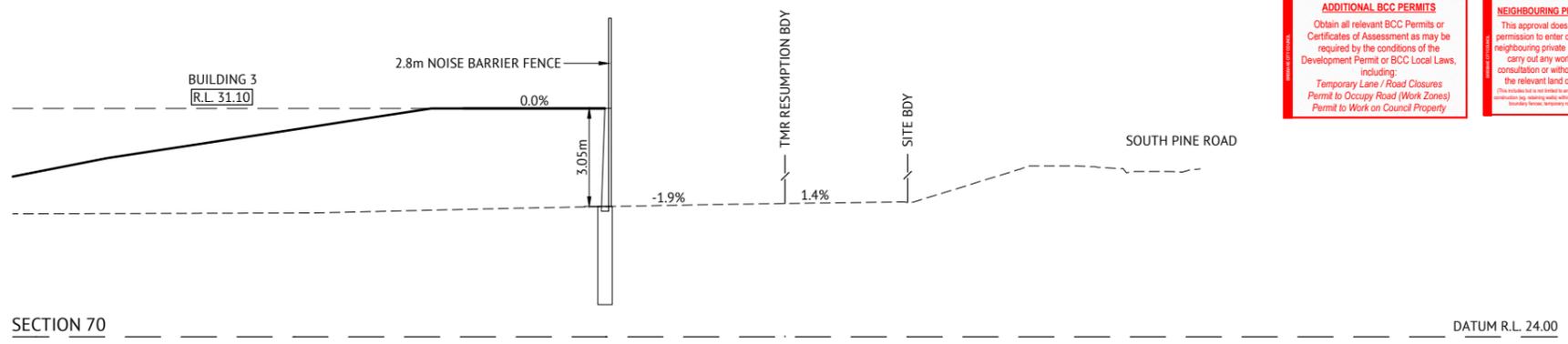
CLIENT
MIRVAC QUEENSLAND PTY LTD
 PROJECT
PROPOSED DEVELOPMENT - STAGE 2, 3A & 4A (54 LOTS)
 LOCATION
420 SOUTH PINE ROAD - EVERTON PARK
 SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS

JOB CODE
17BNE-0071
 SHEET NUMBER
C210
 REV
A

ADDITIONAL BCC PERMITS
 Obtain all relevant BCC Permits or Certificates of Assessment as may be required by the conditions of the Development Permit or BCC Local Laws, including:
 Temporary Lane / Road Closures
 Permit to Occupy Road (Work Zones)
 Permit to Work on Council Property

NEIGHBOURING PROPERTY CONSENT
 This approval does not authorise or give permission to enter onto, under or over any neighbouring private properties to survey or carry out any works without any prior consultation or without the prior consent of the relevant land or property owner(s).
(This includes but is not limited to any works for earth movement, wall, and foundation by existing walls with engineering building structure codes, building frame, temporary work, retaining or other work.)

REPAIR DAMAGE TO COUNCIL INFRASTRUCTURE
 If at any time during the construction phase of the approved development, damage to the existing kerb and channel, footpath or roadway creates unsafe, unreasonable and/or not fit for purpose conditions as assessed by Council, the contractor is to carry out repairs as directed by Asset Services.



APPROVED PLAN
 Brisbane City Council
 21/08/2019

APPROVED PLAN ONLY REFERS TO:

- Earthworks
- Stormwater
- Roadworks
- Traffic Functional Layout
- Traffic Signals
- Construction Management Plan
- WSUD Device(s)
- Signs and Linemarking

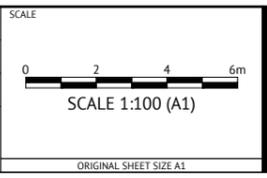
Other:

APPROVAL ISSUE - NOT FOR CONSTRUCTION

DATE	REV	DESCRIPTION	NTT REC	JCS APP
26/06/19	A	ORIGINAL ISSUE		
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
 JOSHUA STONE
 RPEQ 15187



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 - SHEET 2

JOB CODE
17BNE-0071

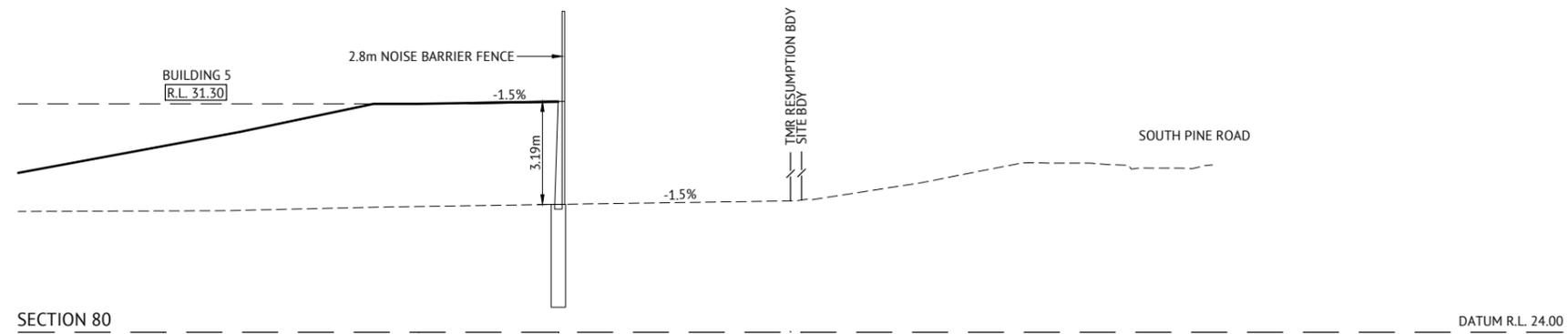
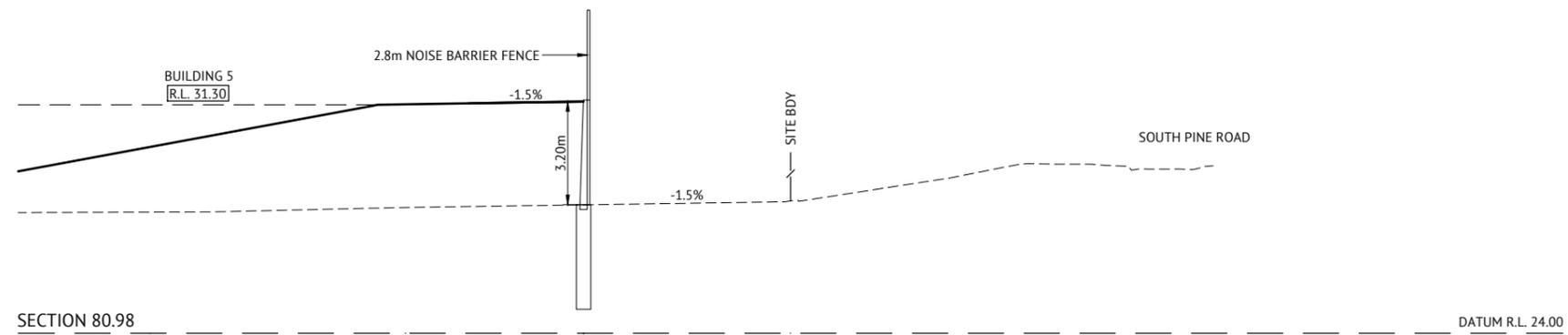
SHEET NUMBER
C213

REV
A

ADDITIONAL BCC PERMITS
 Obtain all relevant BCC Permits or Certificates of Assessment as may be required by the conditions of the Development Permit or BCC Local Laws, including:
 Temporary Lane / Road Closures
 Permit to Occupy Road (Work Zones)
 Permit to Work on Council Property

NEIGHBOURING PROPERTY CONSENT
 This approval does not authorise or give permission to enter onto, under or over any neighbouring private properties to survey or carry out any works without any prior consultation or without the prior consent of the relevant land or property owner(s).
(This includes but is not limited to any works for utility installation, water, sewer, stormwater, drainage, gas, electricity, telecommunications, etc.)

REPAIR DAMAGE TO COUNCIL INFRASTRUCTURE
 If at any time during the construction phase of the approved development, damage to the existing kerb and channel, footpath or roadway creates unsafe, unreasonable and/or not fit for purpose conditions as assessed by Council, the contractor is to carry out repairs as directed by Asset Services.



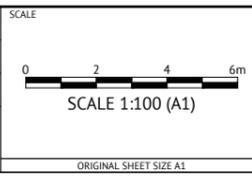
APPROVED PLAN
 Brisbane City Council
 21/08/2019
 APPROVED PLAN ONLY REFERS TO:
 Earthworks
 Stormwater
 Roadworks
 Traffic Functional Layout
 Traffic Signals
 Construction Management Plan
 WSUD Device(s)
 Signs and Linemarking
 Other:

APPROVAL ISSUE - NOT FOR CONSTRUCTION

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

Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
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DESIGNED
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 PROJECT MANAGER
 T.ZETTL
 ENGINEERING CERTIFICATION
 JOSHUA STONE RPEQ 15187



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 - SHEET 3

JOB CODE
17BNE-0071
 SHEET NUMBER
C214
 REV
A