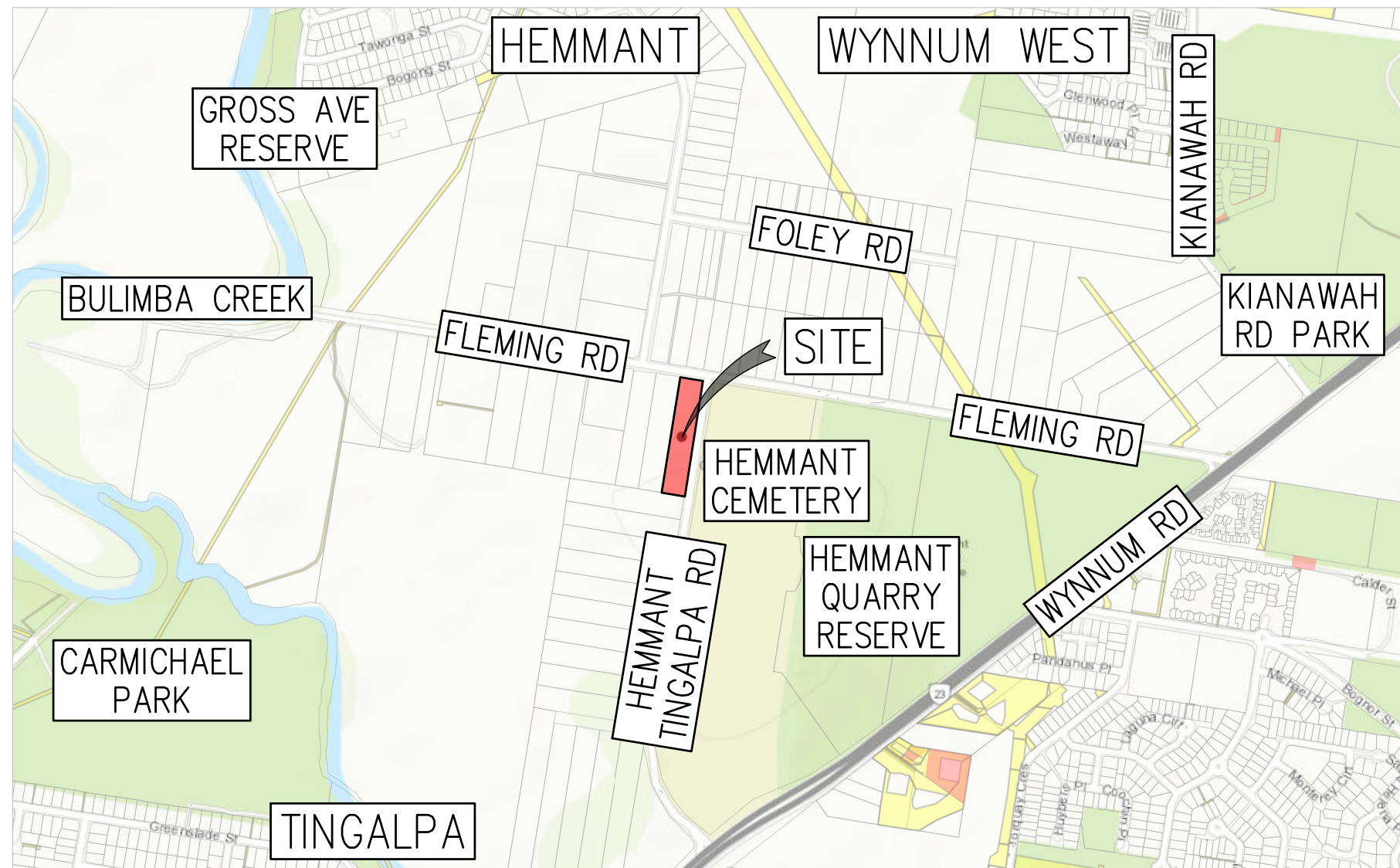
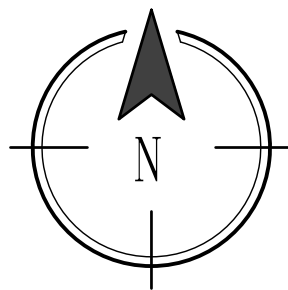


3582 – CIVIL ENGINEERING WORKS

489 HEMMANT TINGALPA ROAD, TINGALPA, QUEENSLAND, 4173

DEVELOPMENT APPROVAL – RECONFIGURING A LOT DEVELOPMENT PERMIT



LOCALITY PLAN
SCALE 1:10000

- GENERAL PROJECT NOTES**
- ALL DIMENSIONS ARE INDICATED IN MILLIMETERS U.N.O.
 - GENERAL NOTES SHALL APPLY TO THE ENTIRE SCOPE OF WORKS.
 - ALL WORKS, TESTING AND MATERIALS SHALL COMPLY WITH THE RELEVANT PROJECT DRAWINGS AND SPECIFICATIONS AS WELL AS ALL CURRENT COUNCIL AND SERVICE PROVIDER STANDARDS, SPECIFICATIONS AND GUIDELINES.
 - SCHEDULING OF THE PROCEDURAL TESTING OF WORKS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
 - CONNECTION TO EXISTING SERVICES:
 - EXISTING SERVICES POSITION, SIZE, DEPTH AND INVERT LEVELS SHALL BE CHECKED ON SITE AND COMMUNICATED TO THE CIVIL WORKS ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - CONNECTION TO EXISTING SERVICES SHALL BE DONE AT THE DEVELOPER'S COST.
 - ALL NEW SERVICES TO BE CONSTRUCTED STARTING AT THE PROPOSED CONNECTION POINT.
 - ALL DRAINAGE RUNS TO BE ACCESSIBLE ALONG THE ENTIRE PIPE LENGTH.
 - NO BACKFILLING OF TRENCHES FOR NEWLY INSTALLED SERVICES OR EXCAVATED EXISTING SERVICES MAY BE DONE WITHOUT APPROVAL FROM THE APPOINTED RPEQ.
 - ALL WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE WORKPLACE HEALTH AND SAFETY ACT.
 - SAFETY ISSUES FOR EACH DEVICE TO BE CONSIDERED AND MONITORED TO THE SATISFACTION OF THE SUPERINTENDENT.
 - WHERE APPLICABLE, TRAFFIC MANAGEMENT MUST BE PROVIDED FOR THE FULL DURATION OF CONSTRUCTION IN ACCORDANCE WITH "THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
 - ALL WORK AGAINST EXISTING FEATURES TO BE JOINED AND FINISHED OFF NEATLY.
 - ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED FOR INSPECTIONS OR MEETINGS, AS SPECIFIED OR REQUESTED BY THE ENGINEER, MUST BE PROVIDED BY THE CONTRACTOR.
 - ALL EXISTING AREAS TO BE MAINTAINED MUST BE RESTORED TO THEIR ORIGINAL CONDITION BY THE CONTRACTOR UPON COMPLETION OF WORKS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT 'BEFORE YOU DIG' TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION. ANY DAMAGES TO EXISTING PUBLIC UTILITIES, CAUSED BY THE CONTRACTOR, WILL BE REPAIRED BY THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.
 - ALL PROPERTY BOUNDARIES SHOWN ARE SUBJECT TO FIELD SURVEY CONFIRMATION BY A REGISTERED SURVEYOR.
 - IF THE AS-CONSTRUCTED SURVEY DOES NOT FORM PART OF THE CONTRACTOR'S SCOPE OF WORKS, THE CONTRACTOR MUST COORDINATE WORKS WITH THE NOMINATED SURVEYOR.
 - ALL ENVIRONMENTAL WORK, INCLUDING CLEARING, MUST BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION COMMENCING.

DRAWING SCHEDULE		
DRAWING NO.	DRAWING TITLE	REV.
3582-01-C001	BCC COVER SHEET, DRAWING SCHEDULE, LOCALITY MAP AND GENERAL NOTES	C
3582-01-CN001	CONCRETE LAYOUTS – PART 1	C
3582-01-CN002	CONCRETE LAYOUTS – PART 2	B
3582-01-CN003	CONCRETE LAYOUTS – DETAILS AND NOTES	A
3582-01-EC001	EROSION AND SEDIMENT CONTROL LAYOUT AND NOTES	C
3582-01-EC002	EROSION AND SEDIMENT CONTROL DETAILS	A
3582-01-EW001	EARTHWORKS LAYOUT – PART 1 AND NOTES	B
3582-01-EW002	EARTHWORKS LAYOUT – PART 2 AND NOTES	C
3582-01-EW003	EARTHWORKS SECTIONS – PART 1	B
3582-01-EW004	EARTHWORKS SECTIONS – PART 2	A
3582-01-R001	ROAD ALIGNMENT 01 LAYOUT AND PROFILE VIEW	C
3582-01-R002	ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW	B
3582-01-R003	ROAD ALIGNMENT 01 SECTIONS	A
3582-01-R004	ROAD ALIGNMENT 02 SECTIONS	A
3582-01-R005	TYPICAL ROAD DETAILS	B
3582-01-RM001	ROAD MARKINGS LAYOUT – PART 1	C
3582-01-RM002	ROAD MARKINGS LAYOUT – PART 2 AND NOTES	B
3582-01-RW001	RETAINING WALL LAYOUT, NOTES AND DETAILS	C
3582-01-RW002	RETAINING WALL ELEVATIONS	B
3582-01-SW001	STORMWATER DRAINAGE LAYOUT AND NOTES	C
3582-01-SW002	STORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 1	C
3582-01-SW003	STORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 2	C
3582-01-SW005	BIORETENTION BASIN LAYOUT AND DETAILS	B
3582-01-SW006	BIORETENTION BASIN SECTIONS AND DETAILS	B
3582-01-SW007	HEADWALL LAYOUT AND DETAILS	A



BEFORE YOU DIG AUSTRALIA (BYDA)
DOCUMENTATION MUST BE OBTAINED
BEFORE ANY ON-SITE CONSTRUCTION OR
EXCAVATION IS ALLOWED TO COMMENCE.
PROJECT DOCUMENTATION IS TO BE READ
IN CONJUNCTION WITH THE BEFORE YOU DIG
PLANS AND OTHER RELEVANT
DOCUMENTATION.

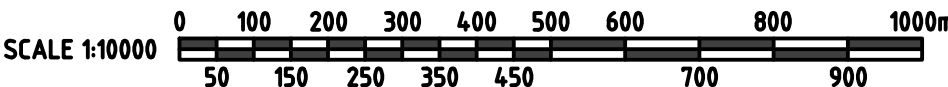
EXISTING SERVICES NOTE

THIS DESIGN HAS BEEN PREPARED BASED ON THE SERVICE AUTHORITY AS-CONSTRUCTED AND DETAIL AND CONTOUR SURVEY INFORMATION. POT HOLING WAS DONE TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DESIGN ON SITE.

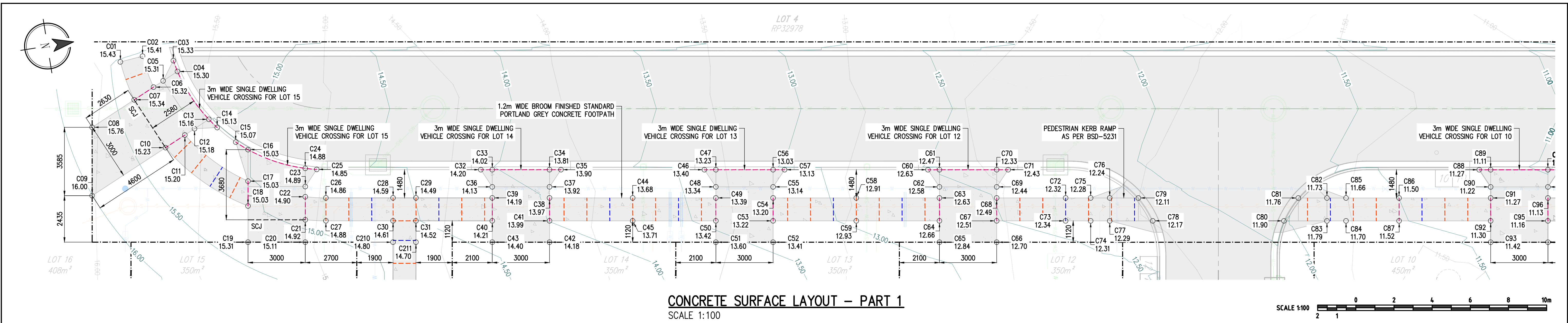
REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

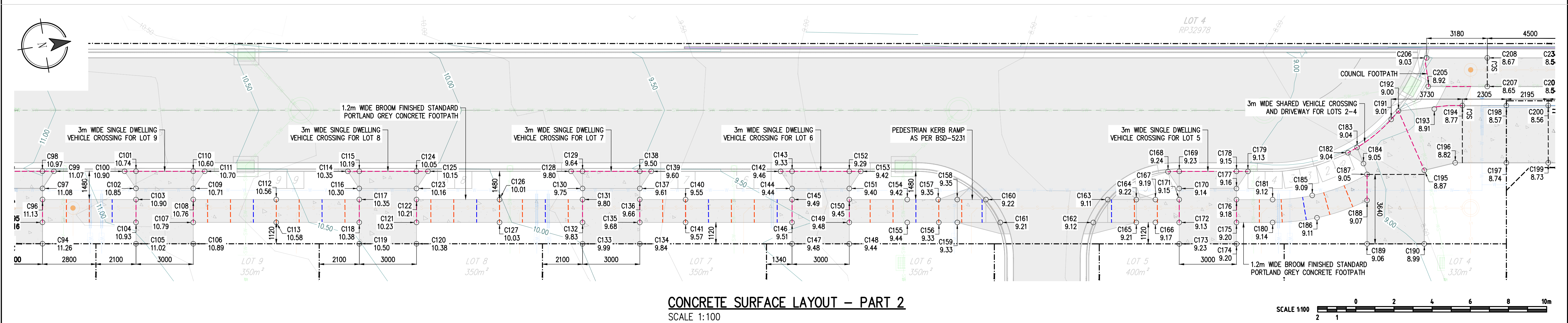
NOT FOR CONSTRUCTION



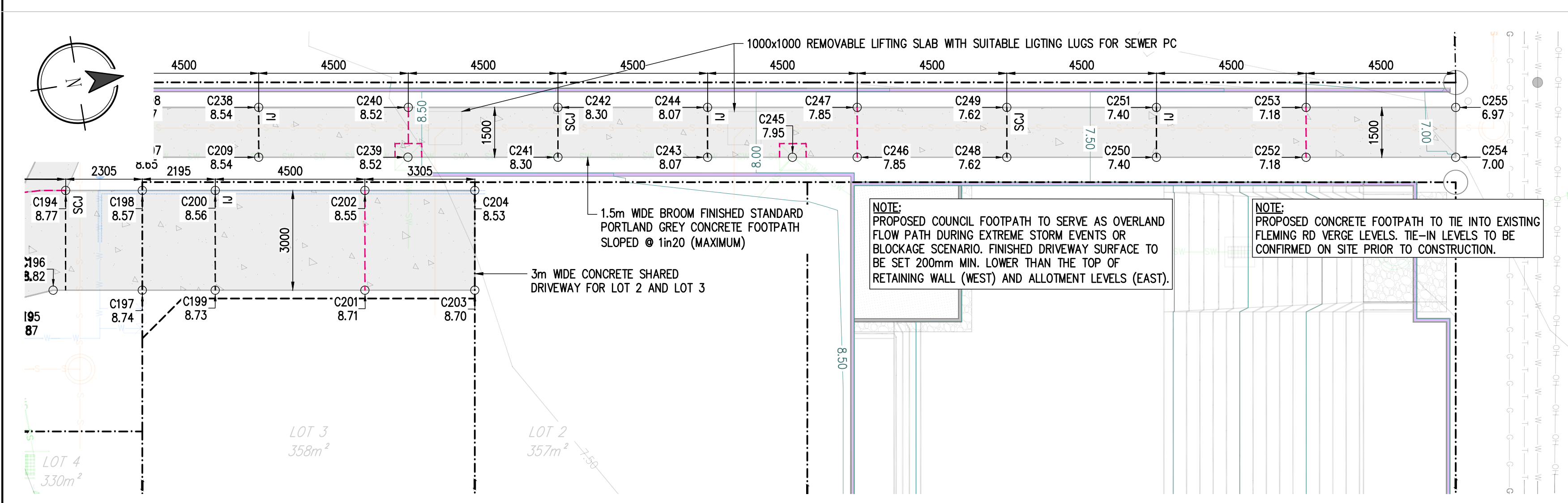
DRAFTING AND RPEQ CERTIFICATION  BRAVO CONSULT www.braviconsult.com.au 07 3652 8379 DS	RPEQ CERTIFICATION DATE <u>21/09/2026</u> SIGNED <u>[Signature]</u> NAME OF SIGNATORY <u>ISAAC SCOT</u> RPEQ No. <u>16797</u>		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.		INITIALS	DATE	PROJECT 489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173		DRAWING STATUS    TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED				
			A	23/04/26	ISSUED FOR APPROVAL	S.V.	–	–	DRAWN	S.V.	21/09/26	CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST		DRAWING No. 3582-01-C001 REVISION C SHEET 01 02 01				
			B	16/09/26	ISSUED FOR APPROVAL – DRAWING REGISTER UPDATED	S.V.	–	–	CHECKED	I.S.	21/09/26							
			C	21/09/26	ISSUED FOR APPROVAL – DRAWING REGISTER UPDATED	S.V.	–	–	APPROVED	I.S.	21/09/26							
										SIZE	SCALE	DRAWING						
										A1	AS SHOWN	BCC COVER SHEET, DRAWING SCHEDULE, LOCALITY MAP AND GENERAL NOTES						



CONCRETE SURFACE LAYOUT – PART 1
SCALE 1:100



CONCRETE SURFACE LAYOUT – PART 2
SCALE 1:100



CONCRETE SURFACE LAYOUT – PART 3
SCALE 1:100

NOT FOR CONSTRUCTION



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

- LEGEND**
- NEW STORMWATER PIPE AND MH
 - NEW STORMWATER KERB ADAPTOR
 - NEW STORMWATER PIT
 - NEW STORMWATER INLET PIT
 - NEW STORMWATER GULLY PIT
 - NEW SEWER PIPE AND MANHOLE
 - NEW SEWER MAINTENANCE SHAFT
 - NEW SEWER PROPERTY CONNECTION
 - NEW SEWER INSPECTION SLAB
 - NEW WATER PIPE
 - NEW WATER SERVICE AND CONDUIT
 - NEW WATER VALVE
 - NEW WATER HYDRANT
 - NEW WATER METER – SINGLE
 - PROPERTY BOUNDARY
 - EXISTING FENCE LINE

- LEGEND**
- FINAL SURFACE LEVEL CONTOURS
 - EXISTING GROUND LEVEL CONTOURS
 - NEW CONCRETE
 - EXISTING CONCRETE
 - NEW ASPHALT
 - NEW RETAINING WALL

EXISTING SERVICES NOTE

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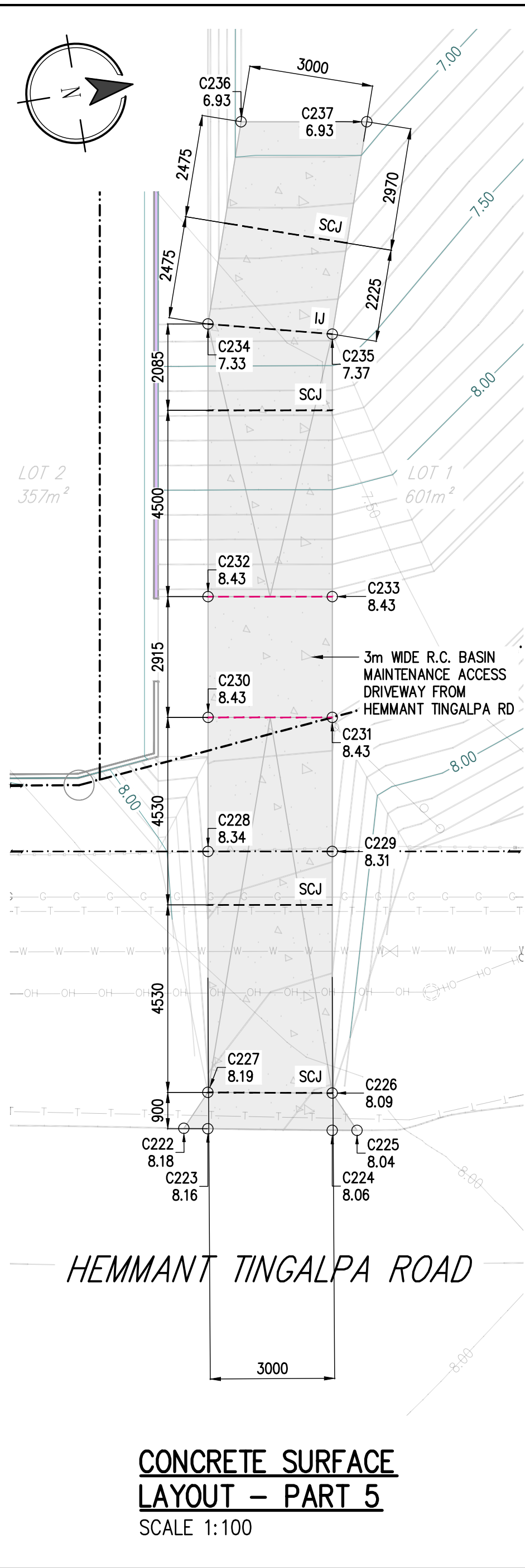
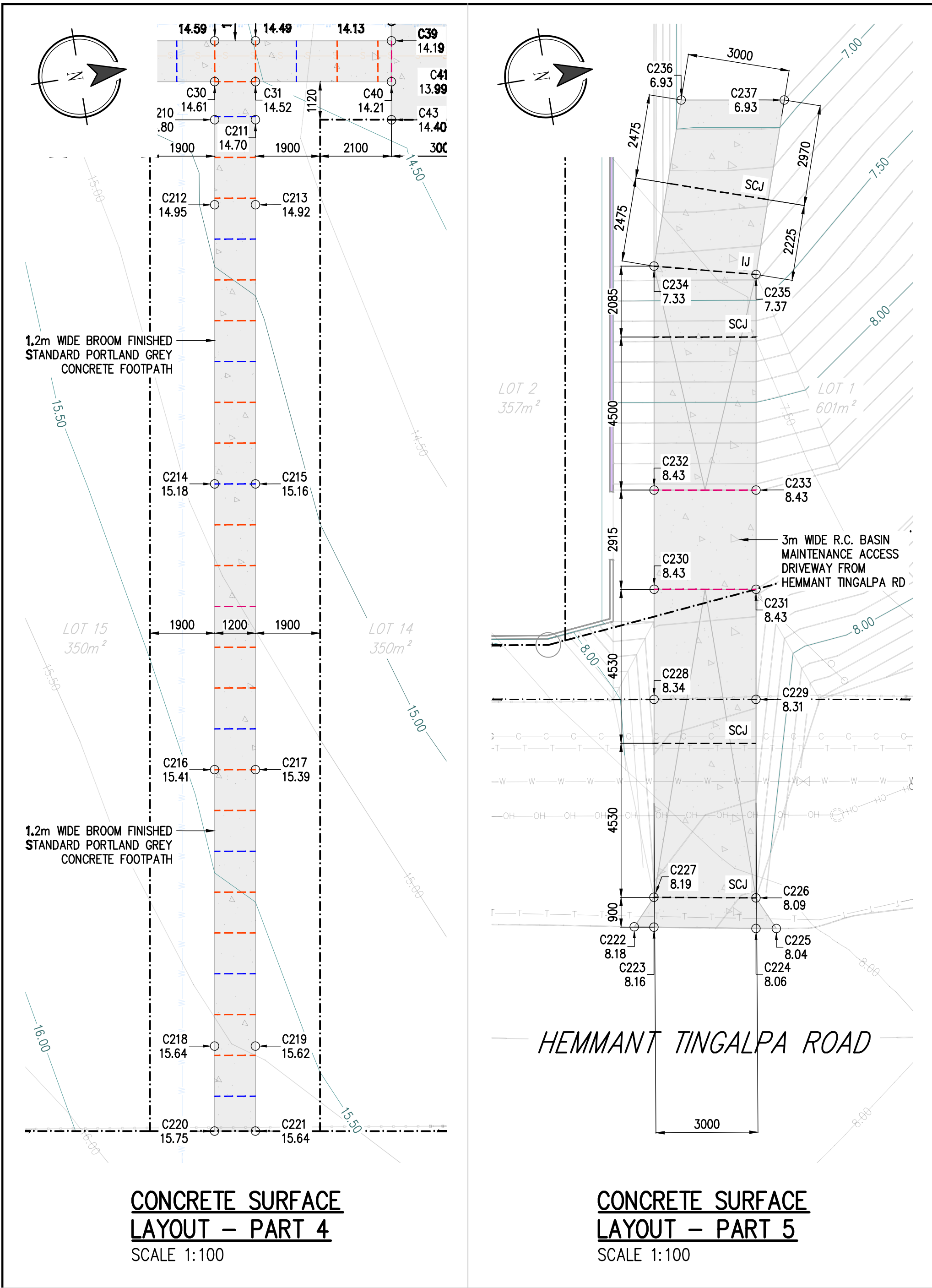
REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-CN002 FOR CONCRETE LAYOUT – PART 2
REFER TO DRAWING 3582-01-CN003 FOR CONCRETE LAYOUT – DETAILS AND NOTES

DRAFTING AND RPEQ CERTIFICATION		RPEQ CERTIFICATION		REV No.		DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT 489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173		DRAWING STATUS				
 BRAVO CONSULT www.bravoconsult.com.au 07 3662 8379		DATE 21/09/2026 SIGNED 		A	23/04/26	ISSUED FOR APPROVAL		S.V.	–	–	DRAWN	S.V.	21/09/26	CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST		TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED			
		NAME OF SIGNATORY ISAAC SCOT		B	16/09/26	ISSUED FOR APPROVAL		S.V.	–	–	CHECKED	I.S.	21/09/26						
		RPEQ No. 16797		C	21/09/26	ISSUED FOR APPROVAL		S.V.	–	–	APPROVED	I.S.	21/09/26	DRAWING CONCRETE LAYOUT – PART 1		3582–01–CN001			
											SIZE A1	SCALE AS SHOWN							
															REVISION C				
															SHEET 01 OF 02				

BCC DS
RECEIVED
21/09/2026
APPLICATION REF
A007057635



LEGEND	
	NEW STORMWATER PIPE AND MANHOLE
	NEW STORMWATER KERB ADAPTOR
	NEW STORMWATER PIT
	NEW STORMWATER INLET PIT
	NEW STORMWATER GULLY PIT
	NEW SEWER PIPE AND MANHOLE
	NEW SEWER MAINTENANCE SHAFT
	NEW SEWER PROPERTY CONNECTION
	NEW SEWER INSPECTION SLAB
	NEW WATER PIPE
	NEW WATER SERVICE AND CONDUIT
	NEW WATER VALVE
	NEW WATER HYDRANT
	NEW WATER METER - SINGLE DOMESTIC
	EXISTING WATER PIPE
	EXISTING TELECOM SERVICE AND PIT
	EXISTING GAS LINE
	EXISTING O/H ELECTRICITY AND POLE
	PROPERTY BOUNDARY
	EXISTING FENCE LINE
	FINAL SURFACE LEVEL CONTOURS
	EXISTING GROUND LEVEL CONTOURS
	NEW CONCRETE
	EXISTING CONCRETE
	NEW ASPHALT
	NEW TURFED AREA
	NEW RETAINING WALL

CONCRETE FOOTPATH JOINTING REQUIREMENTS				
WIDTH (X)		1.2m	1.8m	REFER TO STANDARD DRAWING BSD-5201
PATTERN LINE SPACING (Y)		1.2m	1.8m	
CONTRACTION JOINT SPACING (Z)		3.6m	5.4m	
EXPANSION JOINT SPACING (MAX)		16.0m		

EXISTING SERVICES NOTE

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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

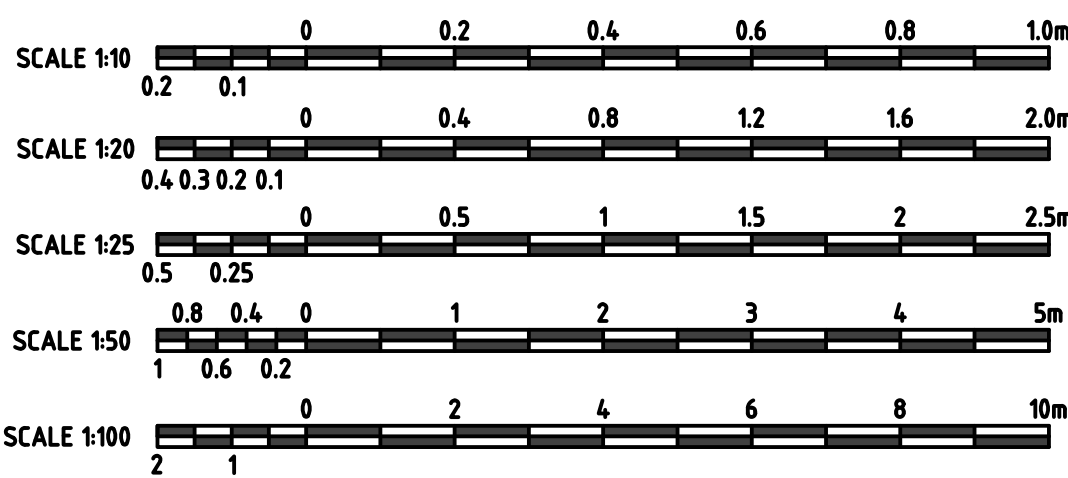
NOTE

- REFER TO BRISBANE CITY COUNCIL STANDARD DRAWING 2000 SERIES FOR ADDITIONAL NOTES ON VEHICLE CROSSING DRIVEWAYS AND VERGE PROFILES.
- REFER TO BRISBANE CITY COUNCIL STANDARD DRAWING 5000 SERIES FOR ADDITIONAL NOTES ON CONCRETE FOOTPATHS.



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NOT FOR CONSTRUCTION



REFER TO DRAWING 3582-01-CN001 FOR CONCRETE LAYOUT - PART 1
REFER TO DRAWING 3582-01-CN003 FOR CONCRETE LAYOUT - DETAILS AND NOTES

DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED

NAME OF SIGNATORY ISAAC SCOT

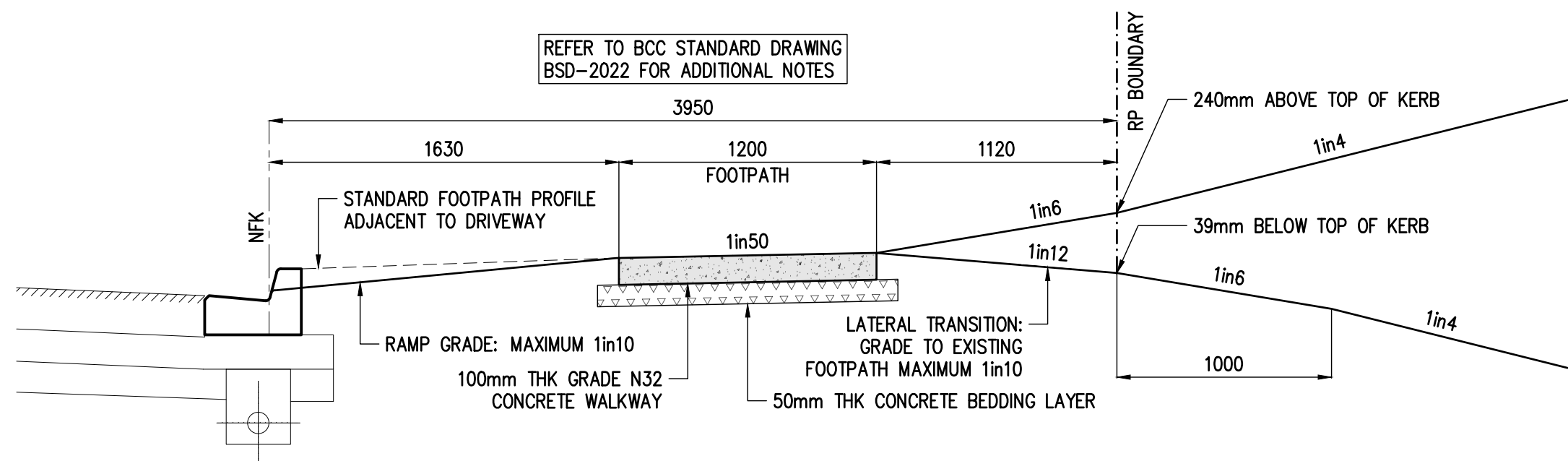
RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.	16/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S.	16/09/26
						APPROVED	I.S.	16/09/26
						SIZE	SCALE	
						A1	AS SHOWN	

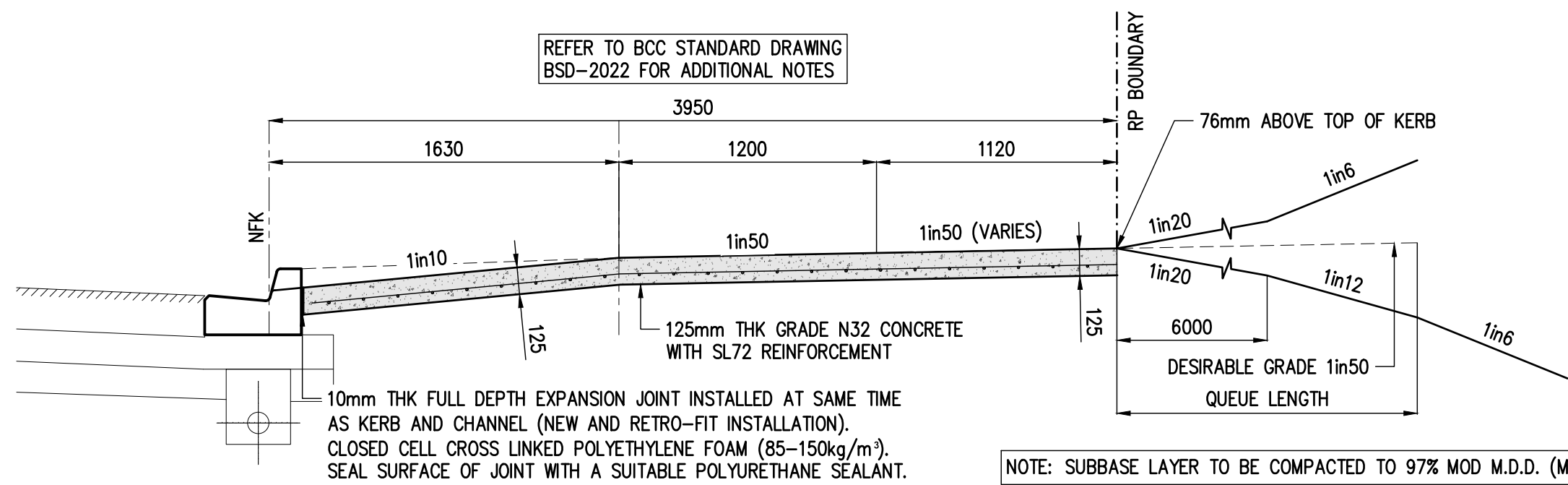
CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
DRAWING	CONCRETE LAYOUT - PART 2

DRAWING STATUS				
TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
DRAWING No.		REVISION		
3582-01-CN002		B		
SHEET		02	03	04

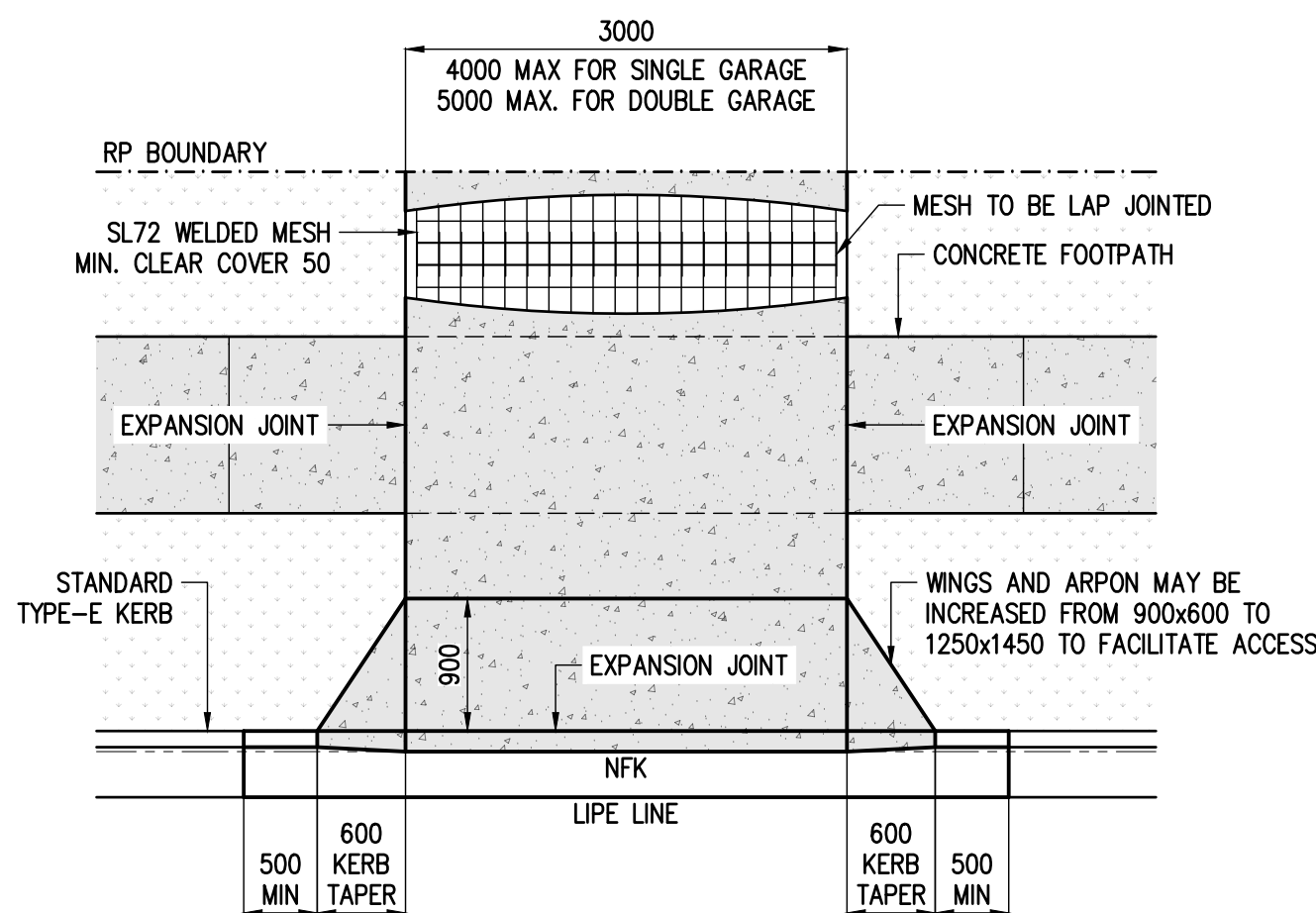
BCC DS
RECEIVED
21/09/2026
APPLICATION REF
A007057635



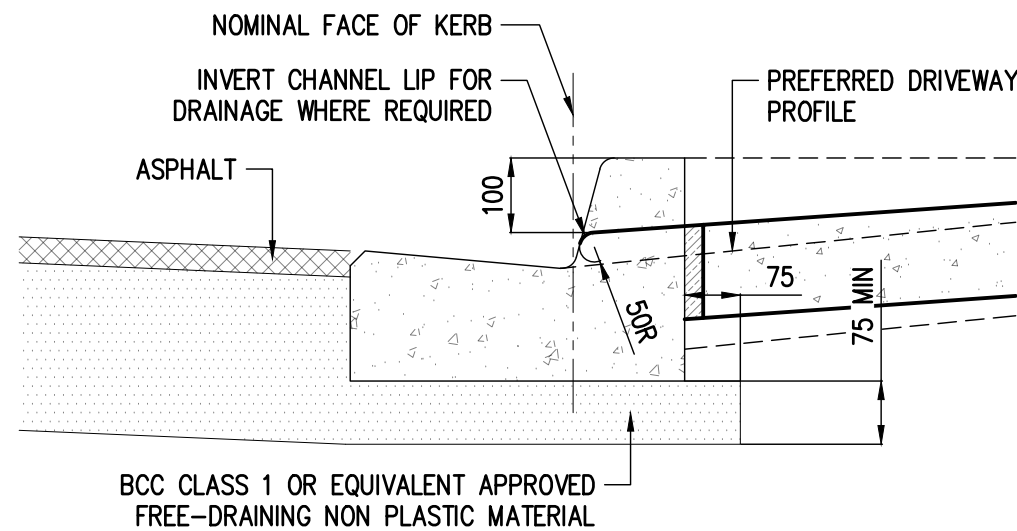
MAXIMUM GRADES – SINGLE DWELLING VEHICULAR ENTRANCE
SCALE 1:25



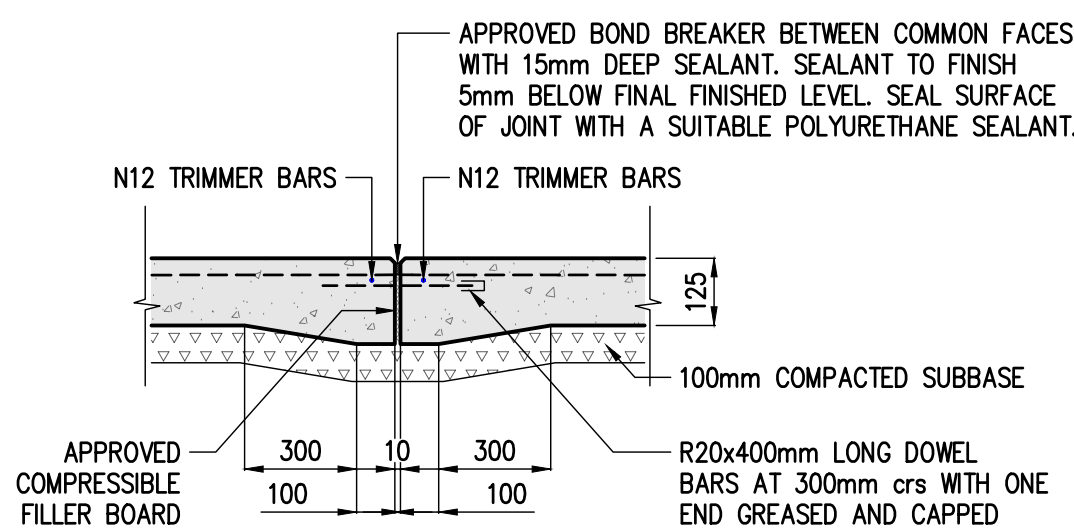
TYP. SINGLE DWELLING VEHICULAR ENTRANCE – DESIRABLE GRADES
SCALE 1:25



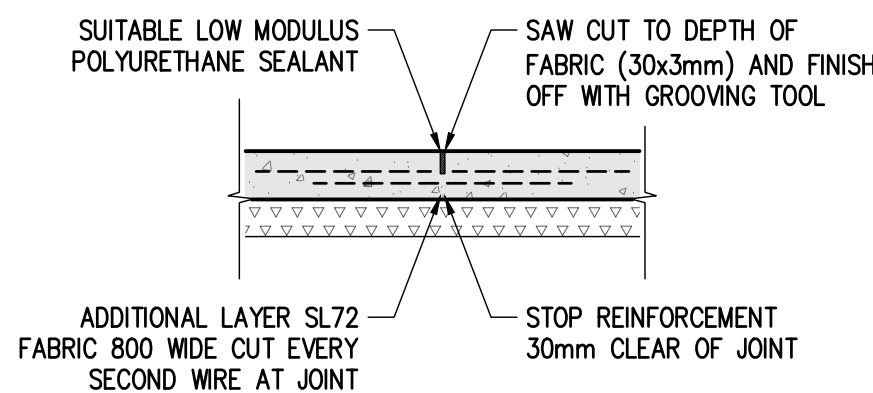
TYP. SINGLE DWELLING VEHICULAR ENTRANCE
SCALE 1:50



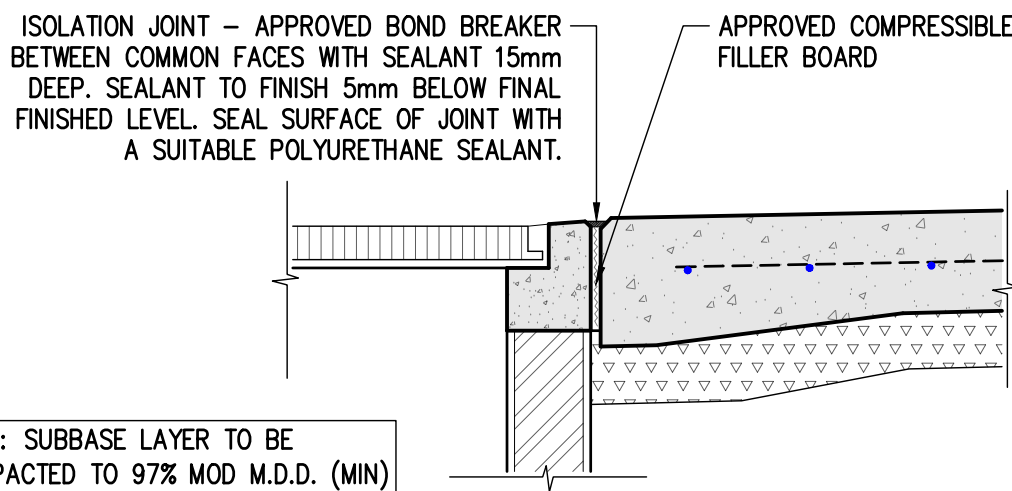
TYP. STANDARD TYPE-E KERB DETAIL
SCALE 1:10



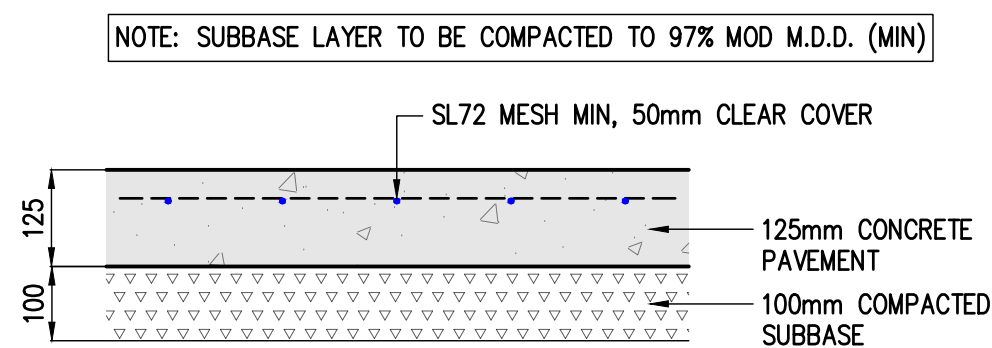
EXPANSION JOINT DETAIL (EJ)
SCALE 1:20



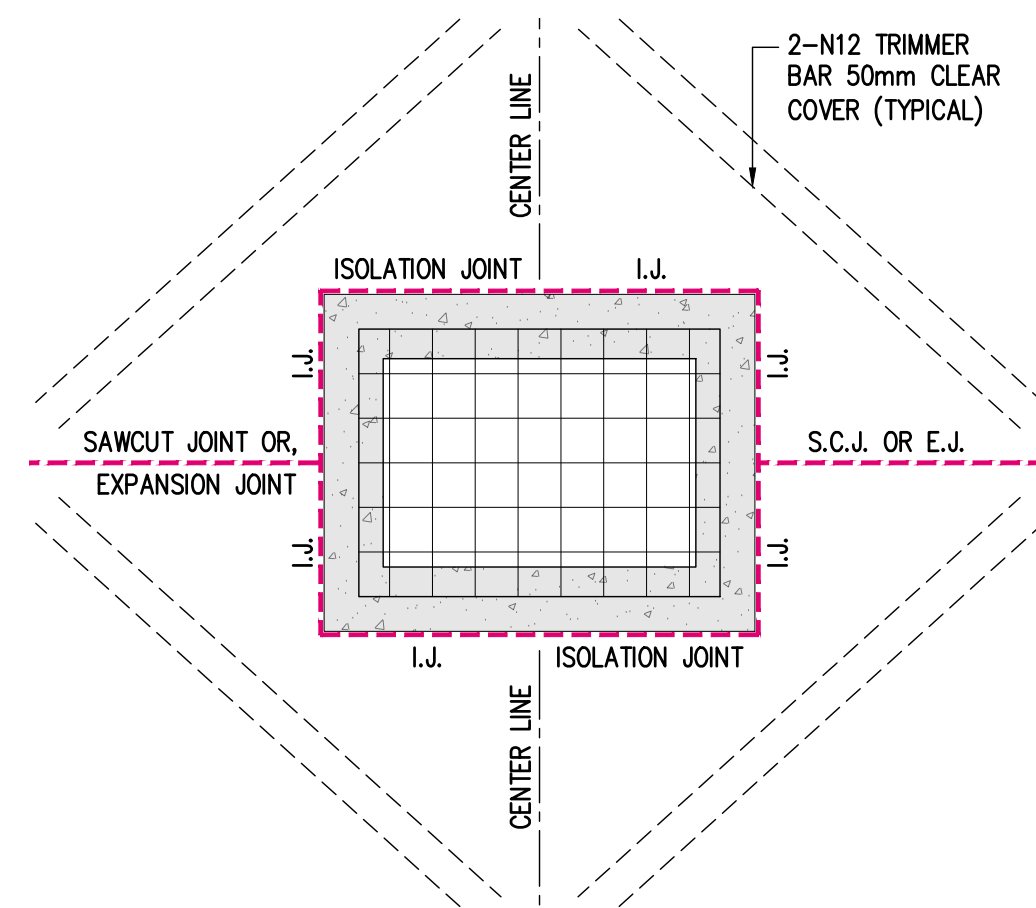
SAW CUT JOINT DETAIL (SCJ)
SCALE 1:20



ISOLATION JOINT ABUTTING STORMWATER PIT DETAIL (IJ)
SCALE 1:20



TYPICAL PAVEMENT DETAIL
SCALE 1:10



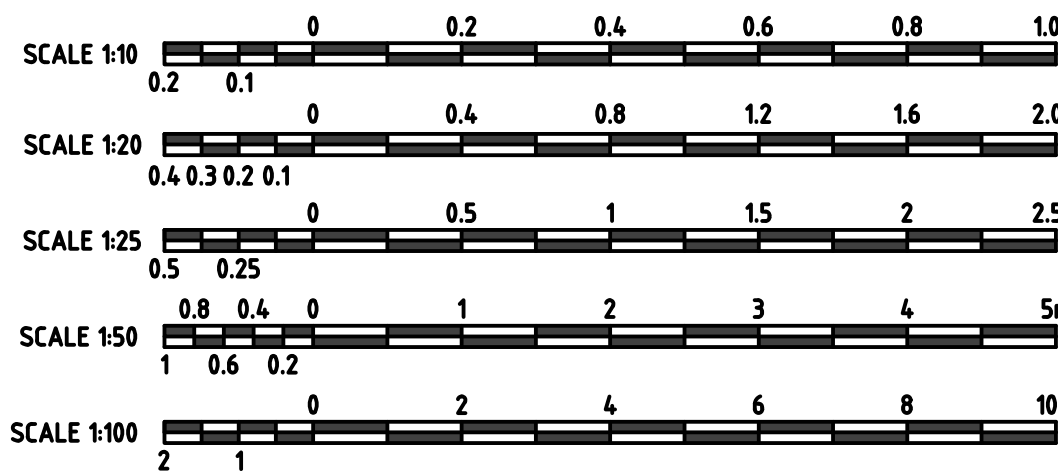
CONCRETE JOINTS SURROUNDING STORMWATER PIT DETAIL
SCALE 1:25

- CONCRETE JOINTING GENERAL NOTES**
- ALL EXPOSED AGGREGATE, REINFORCED CONCRETE PAVEMENT AND JOINTING DESIGN PROCEDURES TO BE IN ACCORDANCE WITH THE CEMENT AND CONCRETE ASSOCIATION, AS 1379 AND AS 3600.
 - SAW CUT JOINTS GENERALLY SPACED 4.5m APART (MAX) WITH EVERY THIRD JOINT BEING A KEY JOINT AND EVERY ALTERNATING THIRD JOINT BEING AN EXPANSION JOINT.
 - ISOLATION JOINTS TO BE PROVIDED AROUND ALL STORMWATER PITS, MANHOLES IN CONCRETE AREAS AND BETWEEN ABUTTING CONCRETE SURFACES.
 - SHARED DRIVEWAY PAVEMENT FOR LOT 2 AND LOT 3 TO BE MIN. 130mm GRADE N32 CONCRETE REINFORCED WITH SL82 MESH AND 50mm CLEAR COVER.
 - REINFORCEMENT FABRIC TO AS 4671 STEEL REINFORCING MATERIALS. 50 TOP AND EDGE COVER, LAP FABRIC 250.
 - FORMWORK AND REINFORCEMENT SHALL BE IN PLACE AND INSPECTED AND APPROVED BY THE RELEVANT COUNCIL PRIOR TO PLACEMENT OF CONCRETE.
 - EXPANSION JOINTS TO BE PLACED AT END OF DAYS POUR.
 - SAWCUT JOINTS TO BE CUT WITHIN 4-6 HOURS AFTER POURING CONCRETE UNLESS AGREED OTHERWISE BY THE CIVIL WORKS ENGINEER. USE "SOFF-CUT" OR OTHER APPROVED SAW.

- CONCRETE SLAB WORKS**
- SUBBASE BELOW FULL EXTENT OF CONCRETE SLABS TO BE MINIMUM 100mm THK COMPACTED ROADBASE TMR2.3 COMPACTED TO 98 R.D.D. OF M.D.D.
 - CONCRETE SHALL BE GRADE 32MPa, 20mm AGGREGATE, AND MAXIMUM SLUMP 80mm. CONCRETE MIX TO BE COMPLIANT WITH AS1379.
 - FULL AREA OF CONCRETE SLAB BASE SHALL BE SEPARATED FROM SUBBASE AND NATURAL GROUND BY DAMP-PROOF MEMBRANE COMPRISED OF 200mm THICK BUILDERS FILM COMPLIANT WITH AS4347.
 - LAPS IN DAMP-PROOF MEMBRANE SHEETING SHALL NOT BE LESS THAN 200mm.
 - CONCRETE TO BE VIBRATED USING HIGH FREQUENCY VIBRATOR AT MINIMUM FREQUENCY 150Hz. VIBRATION TO ENSURE COMPACTION OF CONCRETE AROUND ALL STEEL, ENSURING NO VOIDS. VIBRATION CONTROL MUST ENSURE NO OVER-VIBRATION. TYPICALLY, VIBRATOR SHOULD BE INSERTED VERTICALLY AT SUCCESSIVE POSITIONS NOT MORE THAN 450mm APART. VIBRATOR SHOULD BE HELD IN EACH POSITION FOR 5-15 SECONDS AND WITHDRAWN SLOWLY. FRESHLY CAST CONCRETE SHALL BE PROTECTED FROM THE EFFECTS OF RAIN, RUNNING WATER AND FREEZING OR DRYING PRIOR TO HARDENING. DURING THE INITIAL CURING PERIOD THE CONCRETE SHALL BE PROTECTED FROM FREEZING OR DRYING.
 - CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT. A WATER CURING MEMBRANE COMPLYING WITH AS3799 MUST BE USED. MASTERKURE 404 IS RECOMMENDED FOR USE AND MUST BE APPLIED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - FORMWORK AND FORMWORK SUPPORT FOR VERTICAL FACES MUST NOT BE REMOVED UNTIL CONCRETE HAS ACHIEVED 25MPa. UPON REMOVAL OF FORMWORK, EXPOSED SURFACES MUST BE TREATED WITH CURING MEMBRANE COMPLIANT WITH AS3799 TO ENSURE MINIMUM 7 DAYS CURING.
 - REMOVAL OF FORMWORK SUPPORTS SHALL BE CARRIED OUT IN A PLANNED SEQUENCE SO THE CONCRETE STRUCTURE WILL NOT BE SUBJECT TO ANY UNNECESSARY DEFORMATION, IMPACT, OR ECCENTRIC LOADING DURING THE PROCESS.

NOT FOR CONSTRUCTION

REFER TO DRAWING 3582-01-CN001 FOR CONCRETE LAYOUT – PART 1
REFER TO DRAWING 3582-01-CN002 FOR CONCRETE LAYOUT – PART 2



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NOTE

- REFER TO BRISBANE CITY COUNCIL STANDARD DRAWING 2000 SERIES FOR ADDITIONAL NOTES ON VEHICLE CROSSING DRIVEWAYS AND VERGE PROFILES.
- REFER TO BRISBANE CITY COUNCIL STANDARD DRAWING 5000 SERIES FOR ADDITIONAL NOTES ON CONCRETE FOOTPATHS.

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

EXISTING SERVICES NOTE

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DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED *Isaac Scott*
NAME OF SIGNATORY ISAAC SCOT
RPEQ No. 16797

REV No.

DATE

DESCRIPTION

DRAWN

RPEQ

RPEQ No.

DRAWN

INITIALS

DATE

PROJECT

489 HEMMANT TINGALPA ROAD,
TINGALPA, QLD, 4173

CLIENT

SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST

DRAWING

CONCRETE LAYOUT – DETAILS AND NOTES

DRAWING STATUS

TENDER

INFORMATION

APPROVAL

CONSTRUCTION

AS-CONSTRUCTED

DRAWING No.

3582-01-CN003

REVISION

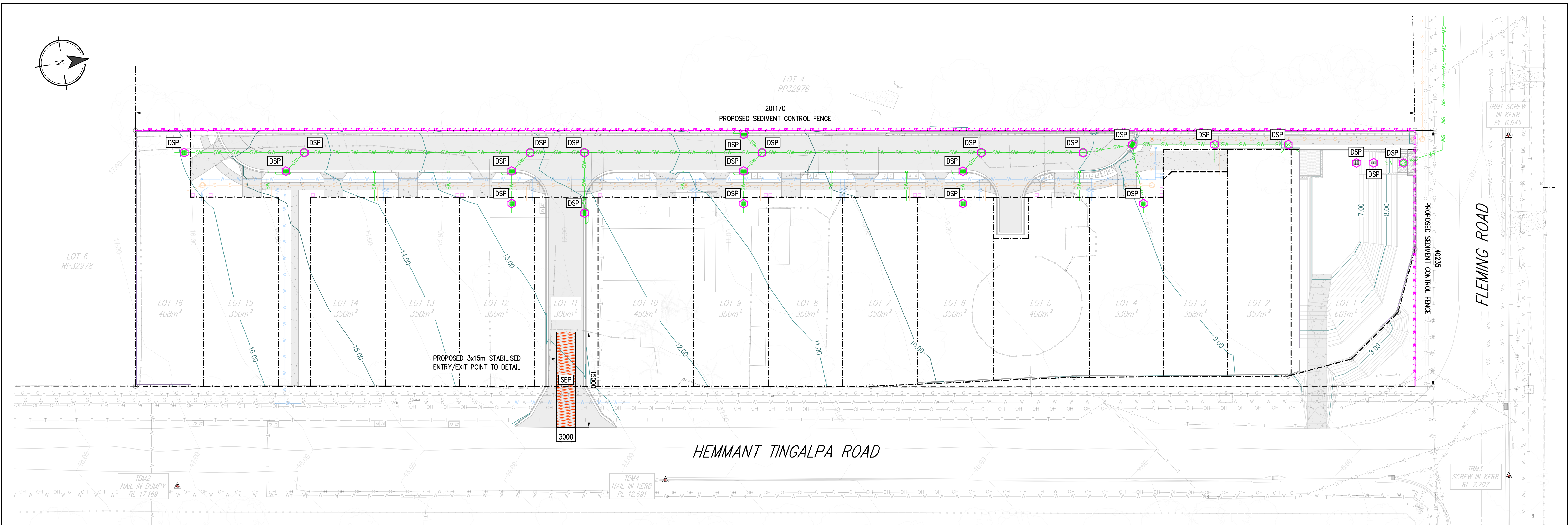
A

SHEET

03

OE

03



EROSION AND SEDIMENT CONTROL LAYOUT
SCALE 1:300

LEGEND

- NEW STORMWATER PIPE AND MANHOLE
- NEW STORMWATER KERB ADAPTOR
- NEW STORMWATER PIT
- NEW STORMWATER INLET PIT
- NEW STORMWATER GULLY PIT
- EXISTING STORMWATER PIPE AND CHAMBER
- EXISTING STORMWATER INLET PIT
- EXISTING STORMWATER HEADWALL
- NEW SEWER PIPE AND MANHOLE
- NEW SEWER MAINTENANCE SHAFT
- NEW SEWER PROPERTY CONNECTION
- NEW SEWER INSPECTION SLAB
- EXISTING SEWER PIPE AND MANHOLE
- NEW WATER PIPE
- NEW WATER VALVE
- NEW WATER HYDRANT
- NEW WATER METER – SINGLE DOMESTIC
- EXISTING WATER PIPE
- EXISTING WATER VALVE
- EXISTING WATER HYDRANT
- EXISTING TELECOM SERVICE AND PIT
- EXISTING GAS LINE

LEGEND

- EXISTING O/H ELECTRICITY AND POLE
- EXISTING SERVICES – TO BE ABANDONED
- PROPERTY BOUNDARY
- EXISTING FENCE LINE
- FINAL SURFACE LEVEL CONTOURS
- EXISTING GROUND LEVEL CONTOURS
- SURVEY REFERENCE MARK
- NEW CONCRETE
- EXISTING CONCRETE
- NEW ASPHALT
- NEW TURFED AREA
- NEW RETAINING WALL
- NEW SEDIMENT CONTROL FENCE
- SEP
- DSP
- NEW STABILISED ENTRY AND EXIT
- NEW DRAINAGE STRUCTURE PROTECTION

EROSION AND SEDIMENT CONTROL NOTES

- GENERAL**
 - EROSION AND SEDIMENT CONTROL LAYOUT AND DETAILS MUST BE READ IN CONJUNCTION WITH THE APPROVED STORMWATER DRAINAGE LAYOUTS AND NOTES.
 - CONSTRUCTION MUST BE PROGRAMMED TO ALLOW FOR SURFACE TREATMENTS AND PERIMETER LANDSCAPING AS EARLY AS POSSIBLE.
 - WORKS PROGRAM TO BE SUBMITTED FOR REVIEW AT THE PROJECT PRE-START MEETING. PROGRAM MAY BE REVISED TO ENSURE SUFFICIENT EROSION AND SEDIMENT CONTROL MEASURES.
 - SAFETY MEASURES TO BE CONSIDERED AND MONITORED FOR EACH DEVICE AS PER THE SUPERINTENDENT REQUIREMENTS.
 - SEDIMENT FENCE FILTER FABRIC TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - SEDIMENT MANAGEMENT DEVICES TO BE INSTALLED PRIOR TO CONSTRUCTION COMMENCING. DEVICES MUST BE MAINTAINED AT AN ACCEPTABLE CONDITION FOR THE ENTIRE CONSTRUCTION PERIOD.
 - SEDIMENT FENCES MUST BE CLEANED WHEN CAPACITY REDUCTION REACHES 30%.
 - DRAINAGE STRUCTURE PROTECTION MUST BE CLEANED AFTER EACH SIGNIFICANT RUN-OFF PRODUCING STORM EVENT.
 - CONTRACTOR TO PROVIDE SITE ACCESS. SITE ACCESS LOCATION AND WASH DOWN AREA MUST BE MAINTAINED FOR THE ENTIRE CONSTRUCTION PERIOD. SITE ACCESS TO BE EXCLUSIVELY VIA THE SHAKEDOWN FACILITY. ALL VEHICLES MUST BE WASHED DOWN BEFORE LEAVING THE SITE.
 - TEMPORARY DRAINAGE CONTROLS TO BE IN PLACE TO DIVERT FLOW FROM UNDISTURBED AREAS AROUND DISTURBED AREAS AND DIRECT FLOW FROM DISTURBED AREAS TO CONTROL DEVICES.
 - PONDED RAINFALL TO BE PUMPED THROUGH A SEDIMENT FENCE PRIOR TO DISCHARGING INTO ANY DOWNSTREAM STORMWATER SYSTEMS.
 - STRAW BALES USED AS SEDIMENT DEVICES TO BE REPLACED AFTER 6 WEEKS (MAXIMUM SERVICE PERIOD).

ENVIRONMENTAL NOTES

- VEGETATION PROTECTION**
 - TREE PROTECTION ZONE (TPZ) AND STRUCTURAL ROOT ZONE (SRZ) TO BE DETERMINED BY THE CONTRACTOR. ZONES TO COMPLY WITH AS 4970-2009.
 - TREES ALONG FOOTPATHS MUST BE TRANSPLANTED PRIOR TO CONSTRUCTION OR REPLACED IF DESTROYED.
 - RUBBER OR HARDWOOD GIRDLES MUST BE CONSTRUCTED USING 1.8m BATTENS, CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES TO BE STRAPPED TO TREES PRIOR TO CONSTRUCTION COMMENCING AND MUST REMAIN IN PLACE UNTIL COMPLETION. TUNNEL UNDER TREE ROOTS RATHER THAN SEVERING ROOTS. SUITABLE FUNGICIDE TO BE USED IN THE DAMAGED AREA IF ROOTS ARE SEVERED. FOR FURTHER ADVICE, CONTACT THE RELEVANT COUNCIL ARBORIST.
 - IF TREE LOPPING IS REQUIRED, THE WORK MUST BE CARRIED OUT BY AN APPROVED ARBORIST.
 - ALL ENVIRONMENTAL PROTECTION PROCEDURES AND MEASURES, INCLUDING CLEARING, MUST BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION COMMENCING.
- SOIL**
 - TOPSOIL AND SUBSOIL TO BE STOCKPILED SEPARATELY.
 - PREVENTION OF SEDIMENT ENTERING THE STORMWATER SYSTEM TO BE IN PLACE WITH APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES WHERE REQUIRED.
- CREEK CROSSING**
 - SILT CONTROL MEASURES TO BE IN PLACE DOWNSTREAM FROM ALL EXCAVATION WORKS WHERE APPLICABLE.
 - PREVENT SEDIMENT FROM ENTERING A CREEK USING THE APPROPRIATE SEDIMENT CONTROLS.
 - NO SOIL ALLOWED TO BE STOCKPILED WITHIN 5m OF A CREEK.

ENVIRONMENTAL NOTES (CONTINUED)

- REHABILITATION**
 - PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS TO BE REINSTATED FOLLOWING CONSTRUCTION.
 - PRE-DISTURBANCE VEGETATION PATTERNS TO BE RESTORED FOLLOWING CONSTRUCTION.
- SAFETY**
 - ALL DESIGN AND CONSTRUCTION TO COMPLY WITH ALL RELEVANT QUEENSLAND LEGISLATION.

BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

NOT FOR CONSTRUCTION

EXISTING SERVICES NOTE

THIS DESIGN HAS BEEN PREPARED BASED ON THE SERVICE AUTHORITY AS-CONSTRUCTED AND DETAIL AND CONTOUR SURVEY INFORMATION. POT HOLING WAS DONE TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DESIGN ON SITE.

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-EC002 FOR EROSION AND SEDIMENT CONTROL DETAILS

SCALE 1:300

DRAFTING AND RPEQ CERTIFICATION

RPEQ CERTIFICATION

DATE 21/09/2026 SIGNED

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V. 21/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S. 21/09/26
C	21/09/26	ISSUED FOR APPROVAL	S.V.	-	-	APPROVED	I.S. 21/09/26

PROJECT	INITIALS	DATE
489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173	S.V.	21/09/26

CLIENT	INITIALS	DATE
SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	I.S.	21/09/26

DRAWING	SCALE
EROSION AND SEDIMENT CONTROL LAYOUT AND NOTES	AS SHOWN

DRAWING STATUS

TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
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DRAWING No.	REVISION	
3582-01-EC001	C	
SHEET	01	02

BCC DS RECEIVED 21/09/2026 APPLICATION REF A007057635



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

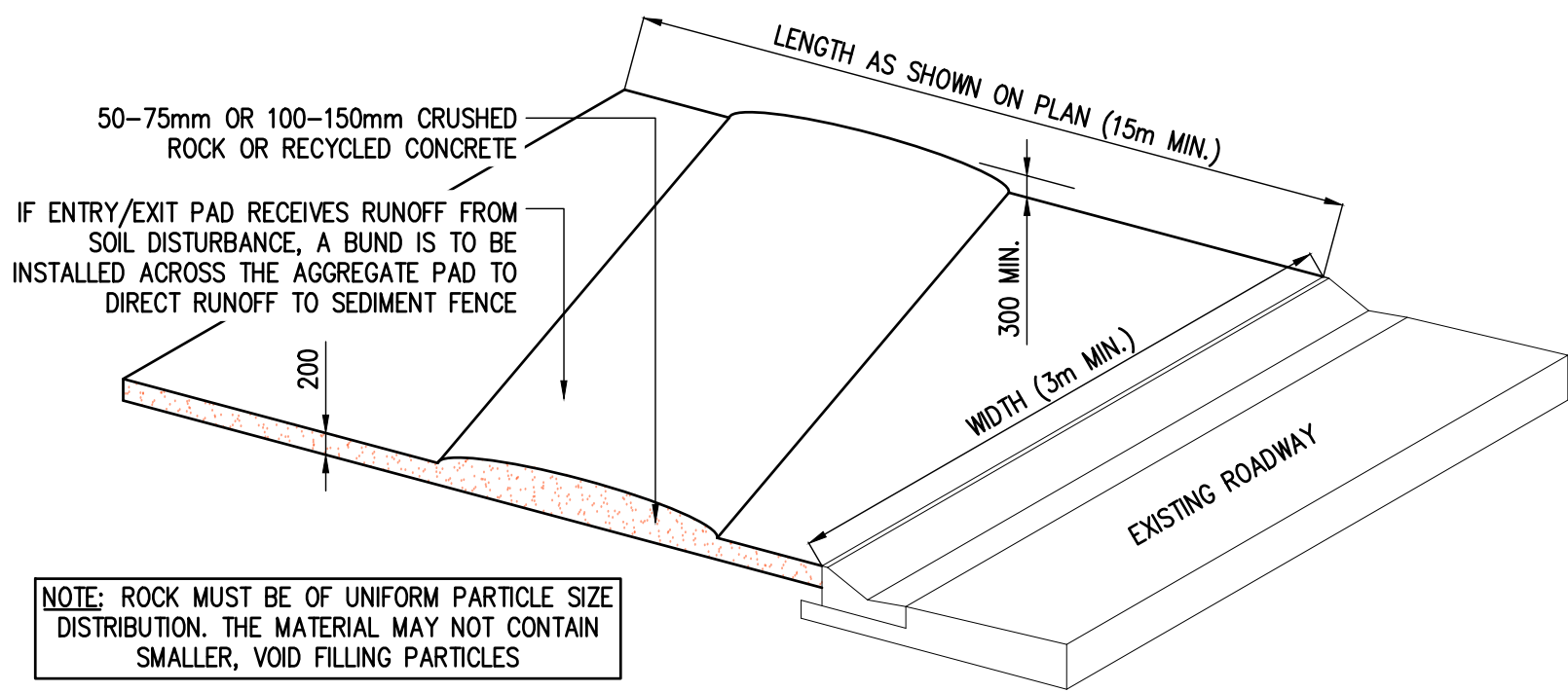
NOT FOR CONSTRUCTION

EXISTING SERVICES NOTE

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REAL PROPERTY DESCRIPTION

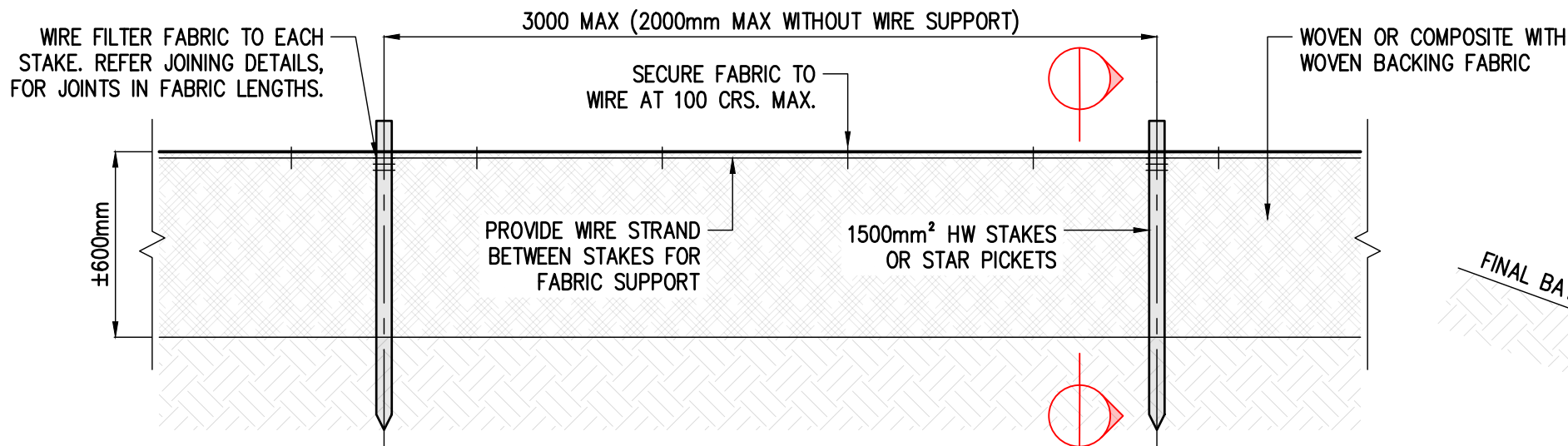
DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978



STABILISED ENTRY/EXIT POINT - TYPE A OR APPROVED EQUIVALENT

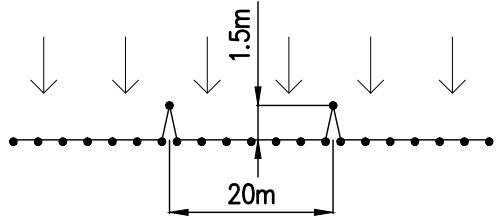
SCALE N.T.S.

SEP DENOTES STABILISED ENTRY/EXIT POINT - REFER TO LAYOUT FOR LOCATION



ELEVATION

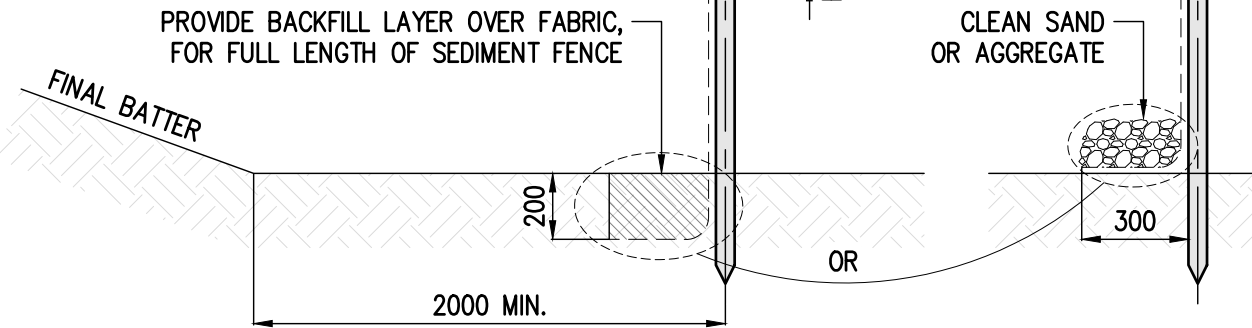
NOTE: INSTALL 1.5m (MIN.) DEEP 'RETURNS' AT 20m SPACING (MAX.) ON UPSLOPE SIDE OF FENCE LINE (5-10m MAX SPACING IF FENCE ALIGNED AT ANGLE TO CONTOUR) FOR EXAMPLE:



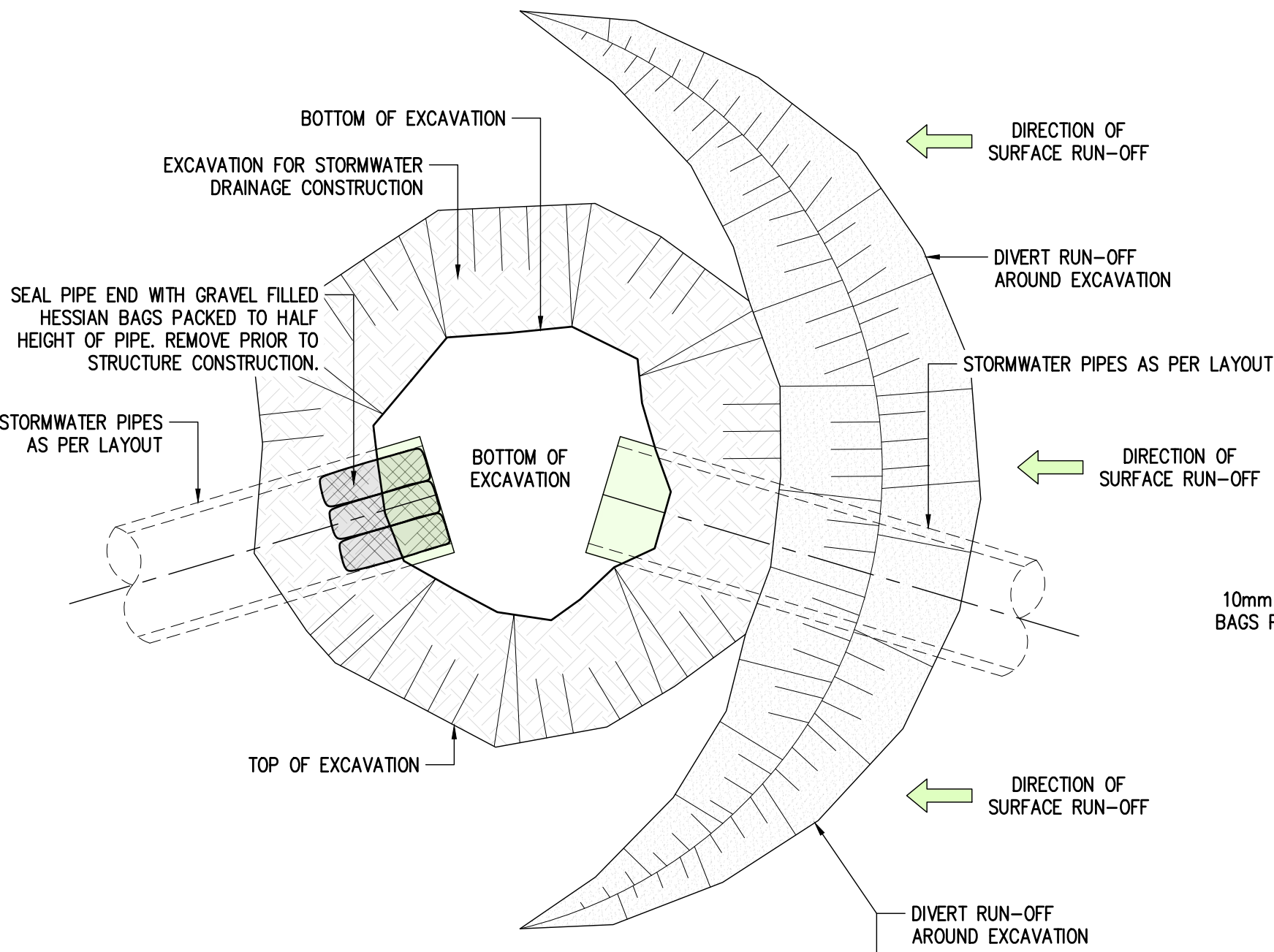
SEDIMENT FENCE DETAILS

SCALE N.T.S.

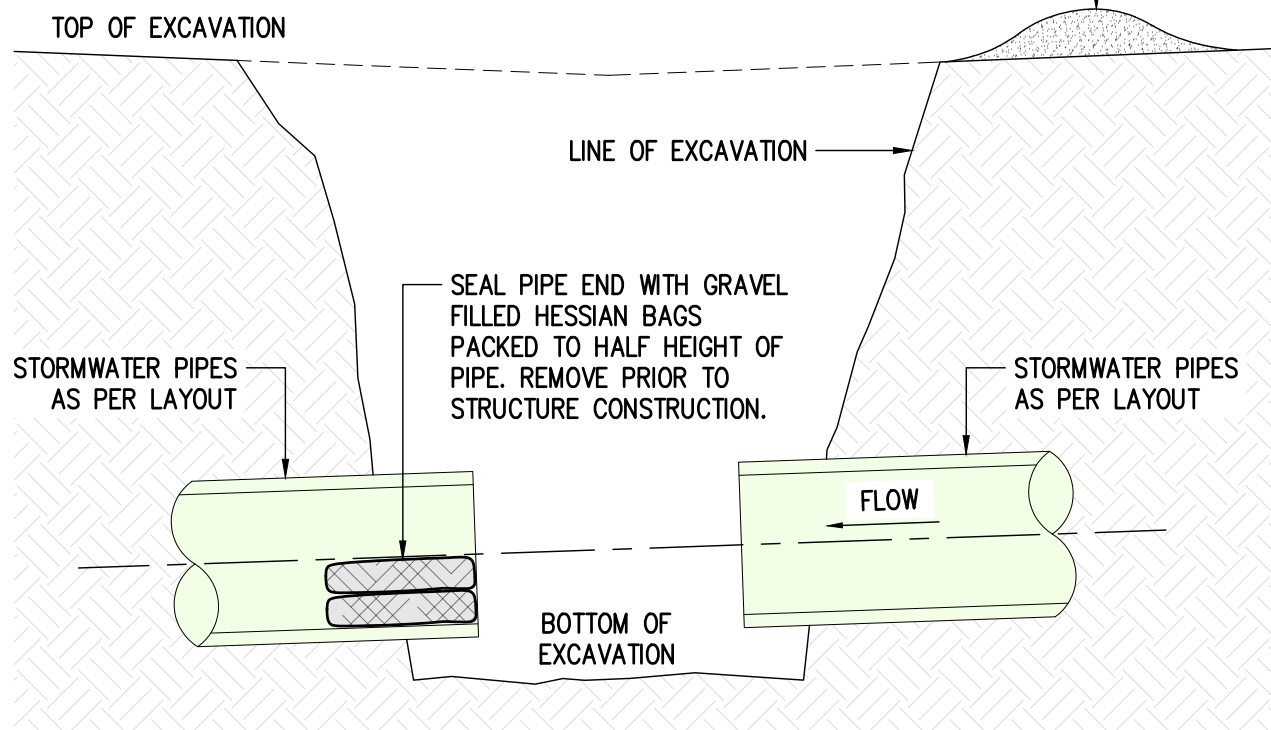
SE-SE-SE DENOTES SEDIMENT FENCE. REFER TO PLAN FOR LOCATION AND EXTENTS.



SECTION

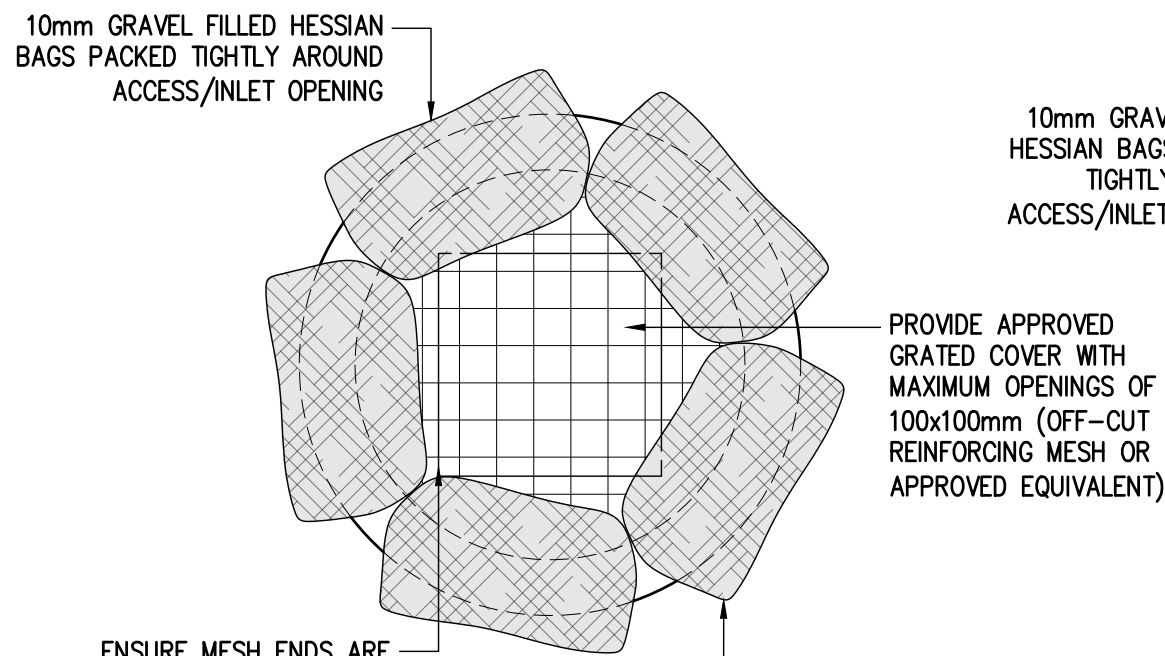


PLAN VIEW

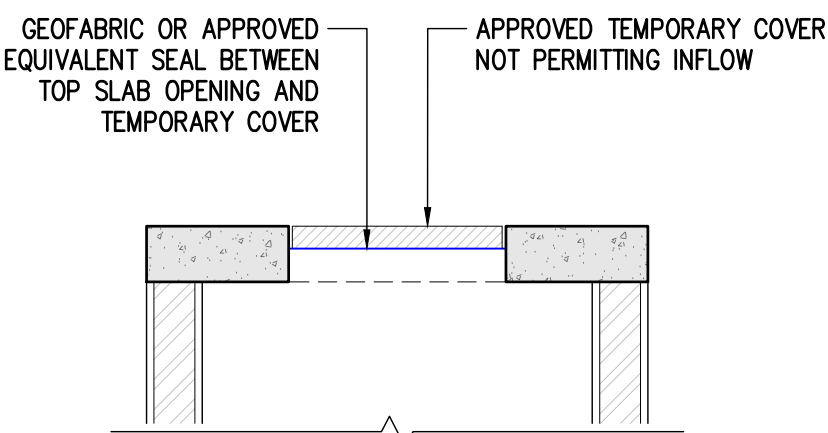


SECTIONAL VIEW

STAGE 1 EXCAVATION AND PIPE INSTALLATION

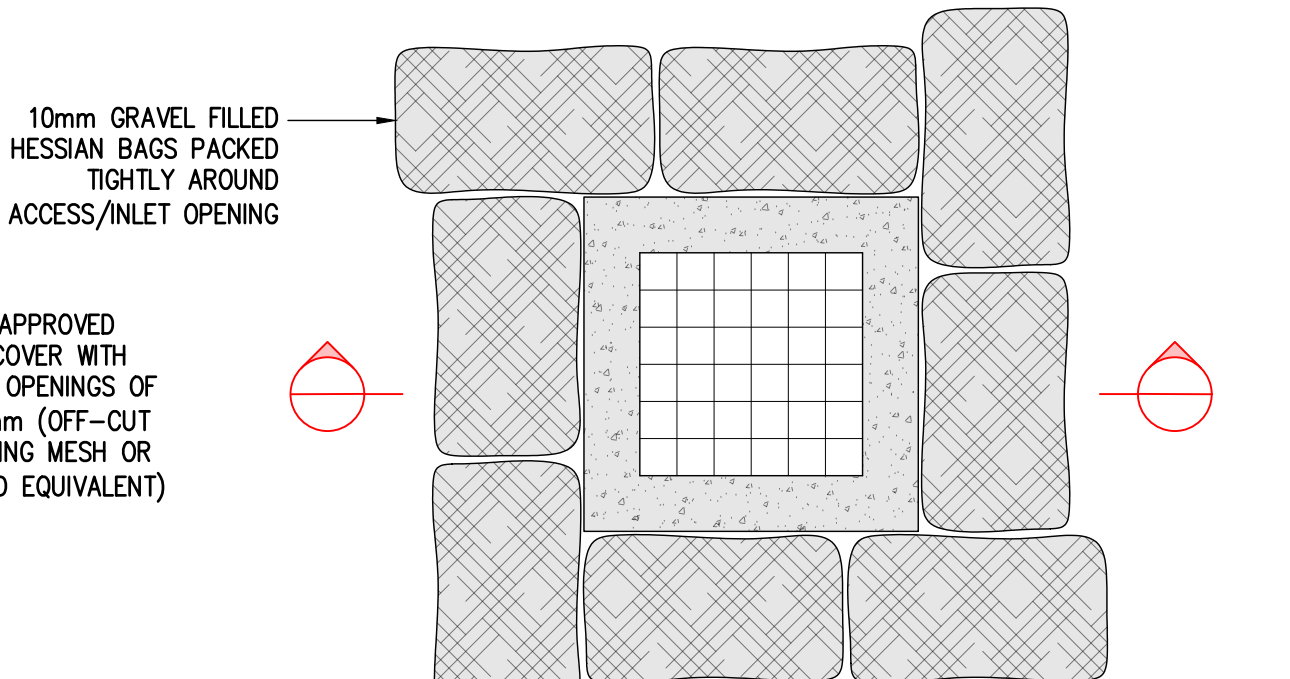


PLAN VIEW

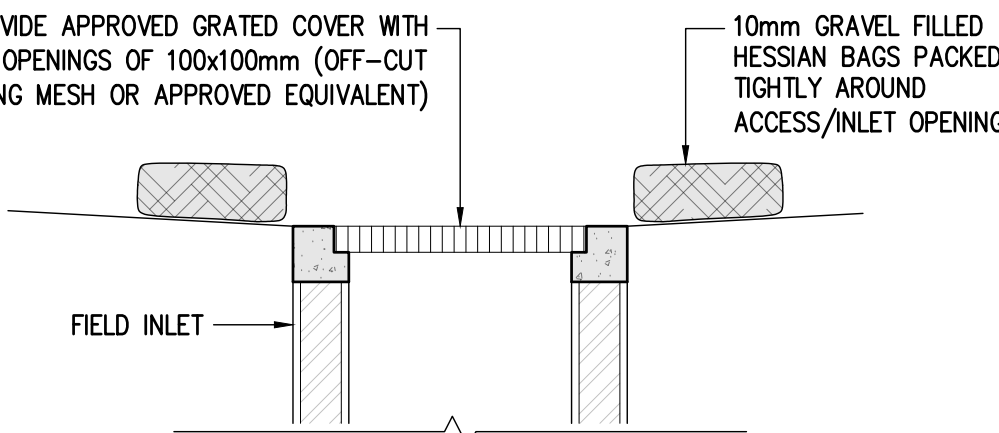


ACCESS CHAMBER

STAGE 2 STRUCTURE COMPLETE UP TO SLAB

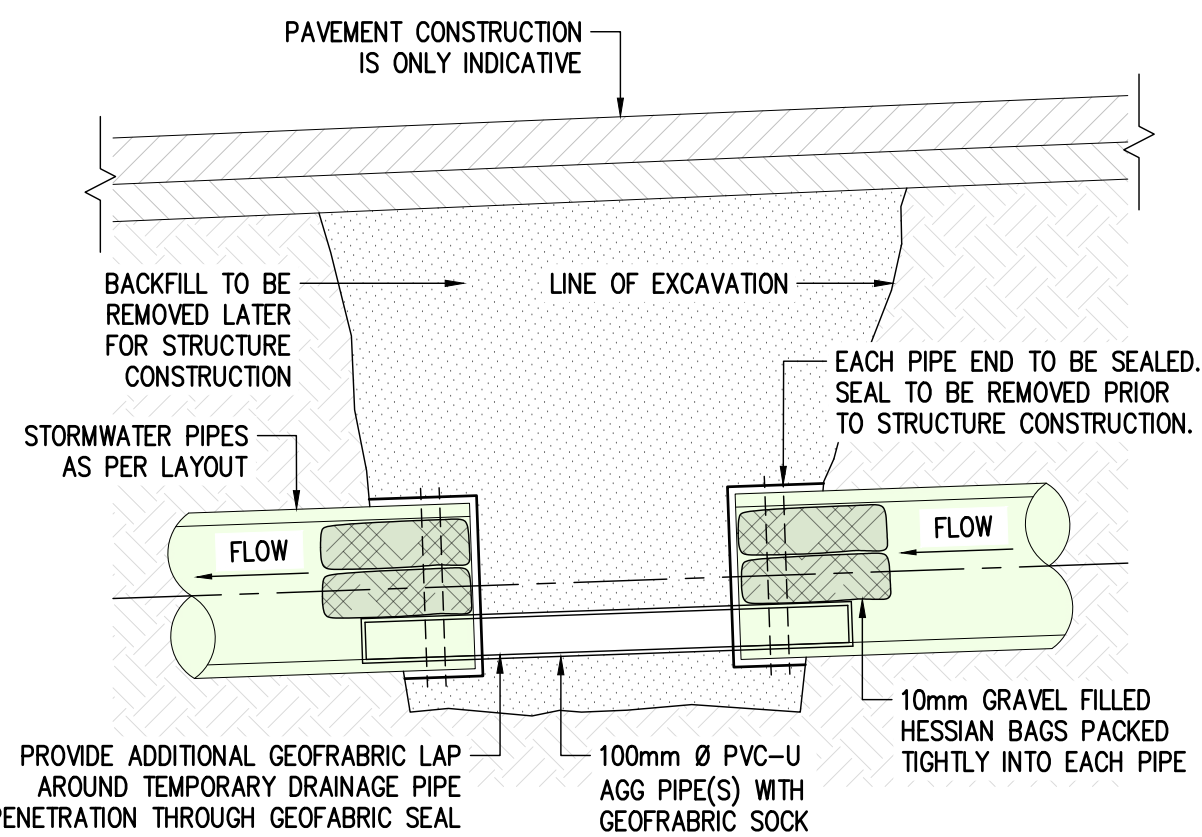


PLAN VIEW

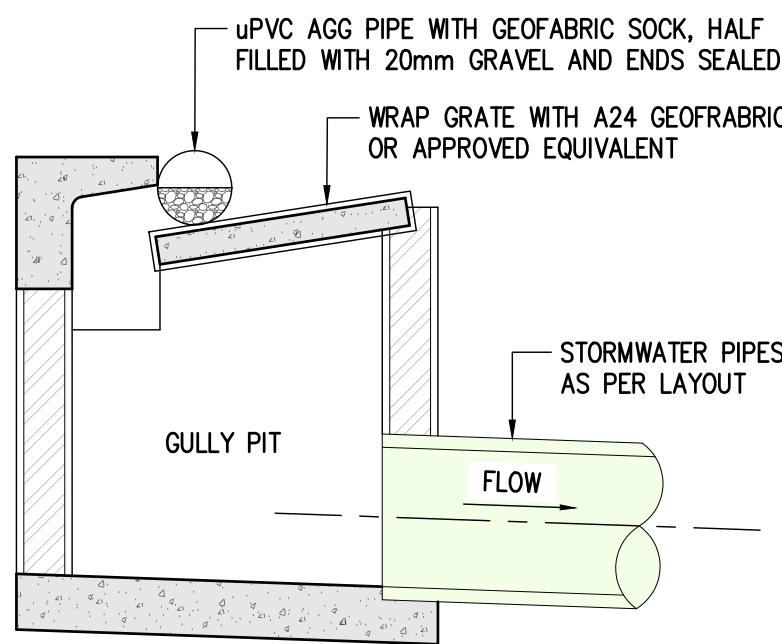


INLET STRUCTURE

STAGE 3 STRUCTURE COMPLETE



STAGE 1 EXCAVATION, PIPE INSTALLATION AND INTERIM BACKFILLING



ON GRADE GULLY PIT

STAGE 2 STRUCTURE COMPLETE

ROADWAY GULLY PIT

SCALE N.T.S.

DSP DENOTES DRAINAGE STRUCTURE PROTECTION - REFER TO LAYOUT FOR LOCATION AND EXTENTS

REFER TO DRAWING 3582-01-EC001 FOR EROSION AND SEDIMENT CONTROL LAYOUT AND NOTES

DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 29/04/2026 SIGNED [Signature]
NAME OF SIGNATORY ISAAC SCOT
RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	23/04/26
						CHECKED	29/04/26
						APPROVED	29/04/26
						SIZE	SCALE
						A1	AS SHOWN

PROJECT 489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
DRAWING EROSION AND SEDIMENT CONTROL DETAILS

DRAWING STATUS

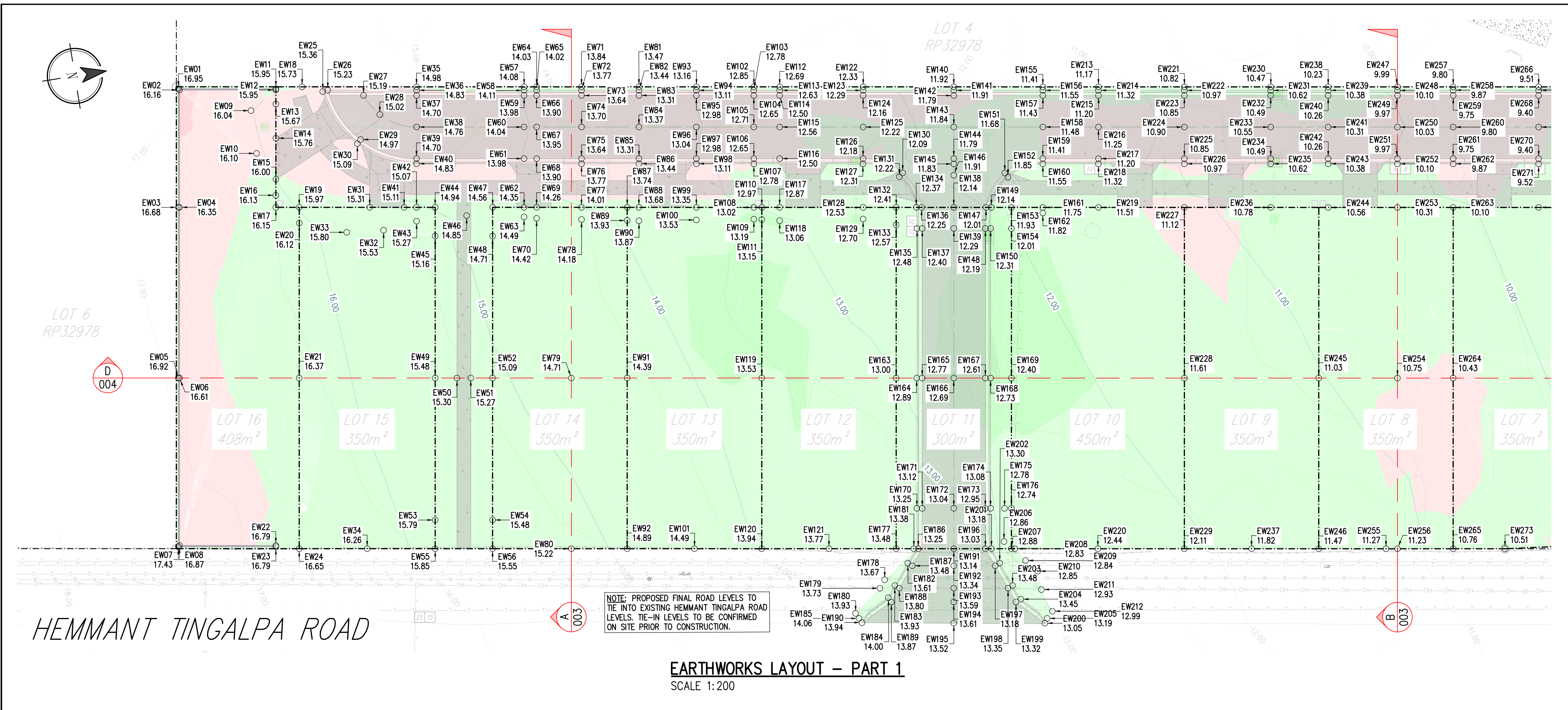
TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED

DRAWING No.

3582-01-EC002

REVISION

A
SHEET 02 OF 02



LEGEND

- EXISTING STORMWATER PIPE AND CHAMBER
- EXISTING STORMWATER INLET PIT
- EXISTING STORMWATER HEADWALL
- EXISTING SEWER PIPE AND MANHOLE
- EXISTING WATER PIPE
- EXISTING WATER VALVE
- EXISTING WATER HYDRANT
- EXISTING TELECOM SERVICE AND PIT
- EXISTING GAS LINE
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- SURVEY REFERENCE MARK
- NEW CONCRETE
- EXISTING CONCRETE
- NEW ASPHALT
- NEW RETAINING WALL
- AREA OF FILL
- AREA OF CUT

CUT AND FILL HATCH

CUT	-0.706m TO -0.500m
	-0.500m TO -0.000m
FILL	+0.000m TO +0.500m
	+0.500m TO +1.000m
	+1.000m TO +1.462m

- EARTHWORKS NOTES**
- ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD).
 - DESIGN SURFACE CONTOURS SHOWN AT 1m INTERVALS.
 - EXISTING GROUND LEVEL CONTOURS SHOWN AT 1m INTERVALS.
 - CONSTRUCTION AREA TO BE STRIPPED OF ALL GRASS, SHRUBS, ORGANIC MATERIAL, RUBBISH, DELETERIOUS MATERIALS AND UNSUITABLE TOPSOIL AS INSTRUCTED BY THE RPEQ. STRIPPED MATERIAL TO BE REMOVED OFF SITE.
 - STRIPPED TOPSOIL TO BE REMOVED OFF SITE UNLESS INSTRUCTED OTHERWISE. STRIPPED TOPSOIL SHALL NOT BE USED AS FILLING MATERIAL WITHOUT PRIOR COUNCIL APPROVAL.
 - ALL EARTHWORKS TO BE DONE IN ACCORDANCE WITH BRISBANE CITY COUNCIL (BCC) STANDARDS, SPECIFICATIONS AND GUIDELINES AS WELL AS AS3798-2007 REQUIREMENTS.
 - IN ACCORDANCE WITH LEVEL 1 OF AS3798-2007 THE GEOTECHNICAL SUPERVISION OF EARTHWORKS IS TO BE DONE BY A N.A.T.A. REGISTERED GEOTECHNICAL TESTING AUTHORITY AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR TO PROVIDE THE ENGINEER WITH ALL TESTING THROUGHOUT THE PROJECT AND MUST NOTIFY THE ENGINEER OF ALL NON-COMFORMANCES. NON-COMFORMING ITEMS TO BE REMEDIED AS INSTRUCTED BY THE ENGINEER.
 - FILL AREA SUBGRADE TO BE PROOF ROLLED, IN THE PRESENCE OF THE ENGINEER, PRIOR TO FILL.

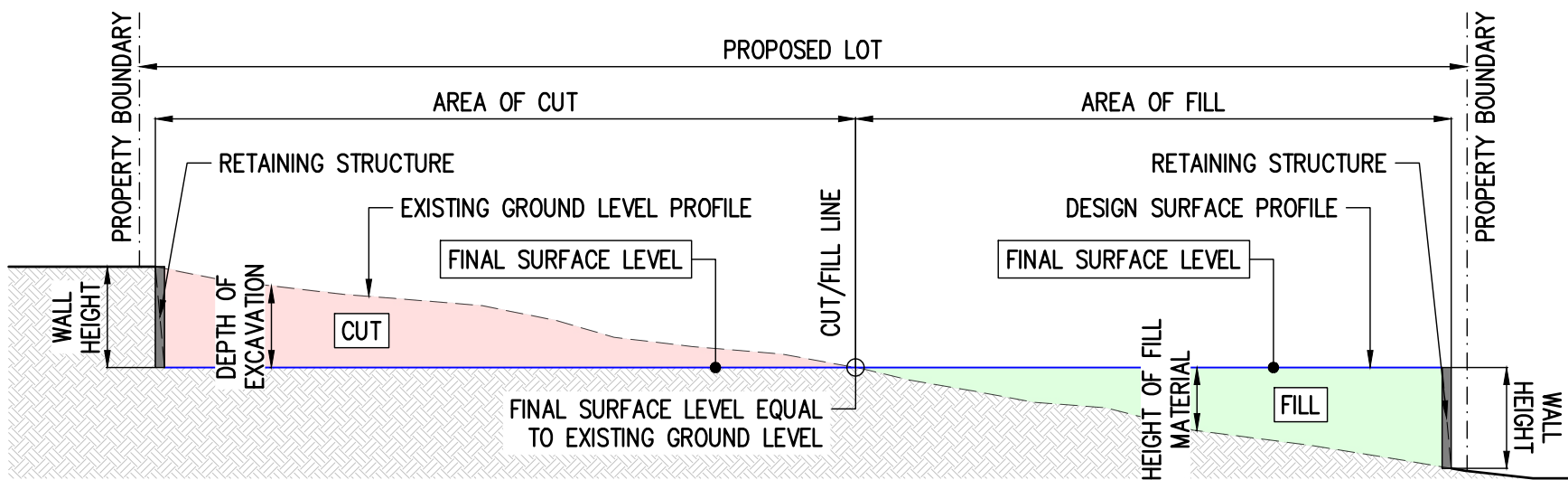
- EARTHWORKS NOTES (CONTINUED)**
- OPERATIONS. SOFT AND/OR COMPRESSIBLE MATERIAL SHALL BE REPLACED WITH ALTERNATIVE MATERIAL AND COMPACTED TO A DENSITY AS PER PROJECT SPECIFICATIONS OR AS INSTRUCTED BY THE ENGINEER.
 - FILL MATERIALS TO BE PLACED IN RELATIVELY HORIZONTAL LAYERS WITH A MAXIMUM PLACEMENT THICKNESS OF 250mm. DIFFERENT THICKNESSES COULD BE APPLICABLE AS A RESULT OF EQUIPMENT, TYPE OF COMPACTION AND OTHER FACTORS. MATERIALS TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO RELATIVE TO THE STANDARD COMPACTIVE EFFORT.
 - EACH FILL LAYER TO BE COMPACTED TO THE SPECIFIED MINIMUM DRY DENSITY.
 - SITE SOILS SHALL BE PLACED NEAR OPTIMUM MOISTURE CONTENT (O.M.C.) FOR GENERAL EARTHWORKS. A RANGE OF ±2% IS RECOMMENDED.
 - CLAYEY BACKFILL MUST NOT BE PLACED TOO DRY OF O.M.C. TO AVOID FUTURE SWELLING WITH CHANGES TO MOISTURE CONTENT OR INUNDATION FROM WATER.
 - CONTRACTOR TO NOTIFY THE SUPERINTENDENT UPON COMPLETION OF EARTHWORKS OPERATIONS. THE FINISHED SURFACE MUST BE PROOF ROLLED AND WITNESSED BY THE ENGINEER.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SITE AND SURROUNDING AREAS FROM DAMAGE AS A RESULT OF STORMWATER RUN-OFF DURING CONSTRUCTION.
 - TEMPORARY DIVERSION DRAINS OR ANY OTHER REQUIRED DRAINAGE CONTROL DEVICES MUST BE IMPLEMENTED

- EARTHWORKS NOTES (CONTINUED)**
- DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER CONDITIONS. SHOULD THERE BE DAMAGE TO THE WORKS AND/OR SURROUNDING AREAS AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE IN NOT PROVIDING ADEQUATE PROTECTION, NO EXTENSION OF TIME WILL BE GRANTED.
 - IMPORTED FILL MATERIAL TO BE GRANULAR FILL WITH LOW PLASTICITY AND MATERIAL CHARACTERISTICS: CBR 10% MIN. (SUBJECT TO APPROVAL FROM ENGINEER)
 - SUITABLE FILL MATERIAL IS TO COMPLY WITH CLAUSE 4.3, AS3798, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
 - ALL BATTERS SHOULD BE PROTECTED FROM EROSION BY SURFACE PROTECTION. THE TYPE OF SURFACE PROTECTION WILL BE DEPENDANT ON FACTORS INCLUDING BATTER SLOPE, TYPE OF MATERIAL, ASPECT, AESTHETIC REQUIREMENTS ETC.
 - AS PER SECTION 11 OF THE ENVIRONMENTAL PROTECTION ACT (EPA) 1994: ALL FILL MATERIALS ON SITE, ONLY COMPRISED OF NATURAL EARTH AND ROCK, MUST BE FREE OF CONTAMINANTS, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS.
 - THE RELEVANT EPA POLICIES, PARTICULARLY THOSE REGARDING THE PRESENCE AND TREATMENT OF FIRE ANTS, APPLY TO ANY MOVEMENT OF MATERIAL TO AND FROM SITE.

Earthworks Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
TOPSOIL VOLUMES (75mm STRIP)	1.000	1.000	8136.99sq.m	610.27 Cu. M.	0.00 Cu. M.	610.27 Cu. M.<Cut>
EARTHWORKS VOLUMES (EXCL. TOPSOIL)	1.000	1.000	8135.46sq.m	189.04 Cu. M.	3425.49 Cu. M.	3236.45 Cu. M.<Fill>
Totals			16272.45sq.m	799.31 Cu. M.	3425.49 Cu. M.	2626.18 Cu. M.<Fill>

NOTE: INDICATED SURFACE LEVELS AND SUBSEQUENT EARTHWORKS VOLUMES ARE FINAL SURFACE LEVELS - SUBTRACT PAVEMENT SURFACING AND LAYERS.



TYPICAL SECTION THROUGH EARTHWORKS
SCALE N.T.S.



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NOT FOR CONSTRUCTION

EXISTING SERVICES NOTE

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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-EW002 FOR EARTHWORKS LAYOUT - PART 2 AND NOTES
REFER TO DRAWING 3582-01-EW003 FOR EARTHWORKS SECTIONS - PART 1
REFER TO DRAWING 3582-01-EW004 FOR EARTHWORKS SECTIONS - PART 2
REFER TO DRAWING 3582-01-RW001 FOR RETAINING WALL LAYOUT, NOTES AND DETAILS
REFER TO DRAWING 3582-01-RW002 FOR RETAINING WALL ELEVATIONS



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED [Signature]
NAME OF SIGNATORY ISAAC SCOT
RPEQ No. 16797

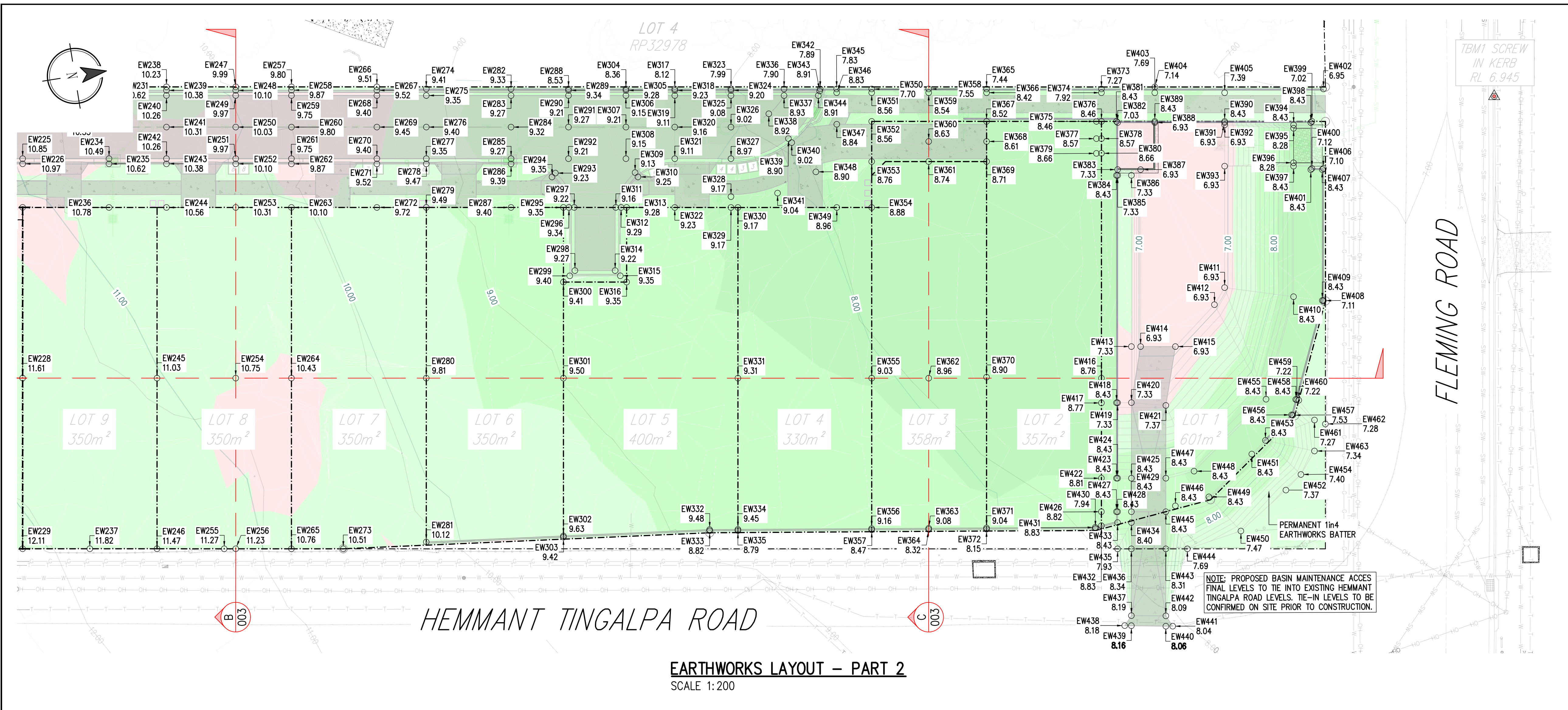
REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	16/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	16/09/26
						APPROVED	16/09/26
						SIZE	
						SCALE	

PROJECT 489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
DRAWING EARTHWORKS LAYOUT - PART 1 AND NOTES

DRAWING STATUS

TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED

DRAWING No.	REVISION	SHEET	01	02	04
3351-01-EW001	B				



LEGEND

- EXISTING STORMWATER PIPE AND CHAMBER
- EXISTING STORMWATER INLET PIT
- EXISTING STORMWATER HEADWALL
- EXISTING SEWER PIPE AND MANHOLE
- EXISTING WATER PIPE
- EXISTING WATER VALVE
- EXISTING WATER HYDRANT
- EXISTING TELECOM SERVICE AND PIT
- EXISTING GAS LINE
- EXISTING O/H ELECTRICITY AND POLE
- EXISTING SERVICES - TO BE ABANDONED
- PROPERTY BOUNDARY
- EXISTING FENCE LINE
- FINAL SURFACE LEVEL CONTOURS
- EXISTING GROUND LEVEL CONTOURS
- SURVEY REFERENCE MARK
- NEW CONCRETE
- EXISTING CONCRETE
- NEW ASPHALT
- NEW RETAINING WALL
- AREA OF FILL
- AREA OF CUT

CUT AND FILL HATCH

Direction	Level Range
CUT	-0.706m TO -0.500m
	-0.500m TO -0.000m
FILL	+0.000m TO +0.500m
	+0.500m TO +1.000m
	+1.000m TO +1.462m

EARTHWORKS NOTES

- ALL LEVELS TO AUSTRALIAN HEIGHT DATUM (AHD).
- DESIGN SURFACE CONTOURS SHOWN AT 1m INTERVALS.
- EXISTING GROUND LEVEL CONTOURS SHOWN AT 1m INTERVALS.
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- CONTRACTOR TO PROVIDE THE ENGINEER WITH ALL TESTING THROUGHOUT THE PROJECT AND MUST NOTIFY THE ENGINEER OF ALL NON-CONFORMANCES. NON-CONFORMING ITEMS TO BE REMEDIED AS INSTRUCTED BY THE ENGINEER.
- FILL AREA SUBGRADE TO BE PROOF ROLLED, IN THE PRESENCE OF THE ENGINEER, PRIOR TO FILL.

EARTHWORKS NOTES (CONTINUED)

- OPERATIONS. SOFT AND/OR COMPRESSIBLE MATERIAL SHALL BE REPLACED WITH ALTERNATIVE MATERIAL AND COMPACTED TO A DENSITY AS PER PROJECT SPECIFICATIONS OR AS INSTRUCTED BY THE ENGINEER.
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- EACH FILL LAYER TO BE COMPACTED TO THE SPECIFIED MINIMUM DRY DENSITY.
- SITE SOILS SHALL BE PLACED NEAR OPTIMUM MOISTURE CONTENT (O.M.C.) FOR GENERAL EARTHWORKS. A RANGE OF $\pm 2\%$ IS RECOMMENDED.
- CLAYEY BACKFILL MUST NOT BE PLACED TOO DRY OF O.M.C. TO AVOID FUTURE SWELLING WITH CHANGES TO MOISTURE CONTENT OR INUNDATION FROM WATER.
- CONTRACTOR TO NOTIFY THE SUPERINTENDENT UPON COMPLETION OF EARTHWORKS OPERATIONS. THE FINISHED SURFACE MUST BE PROOF ROLLED AND WITNESSED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE SITE AND SURROUNDING AREAS FROM DAMAGE AS A RESULT OF STORMWATER RUN-OFF DURING CONSTRUCTION.
- TEMPORARY DIVERSION DRAINS OR ANY OTHER REQUIRED DRAINAGE CONTROL DEVICES MUST BE IMPLEMENTED

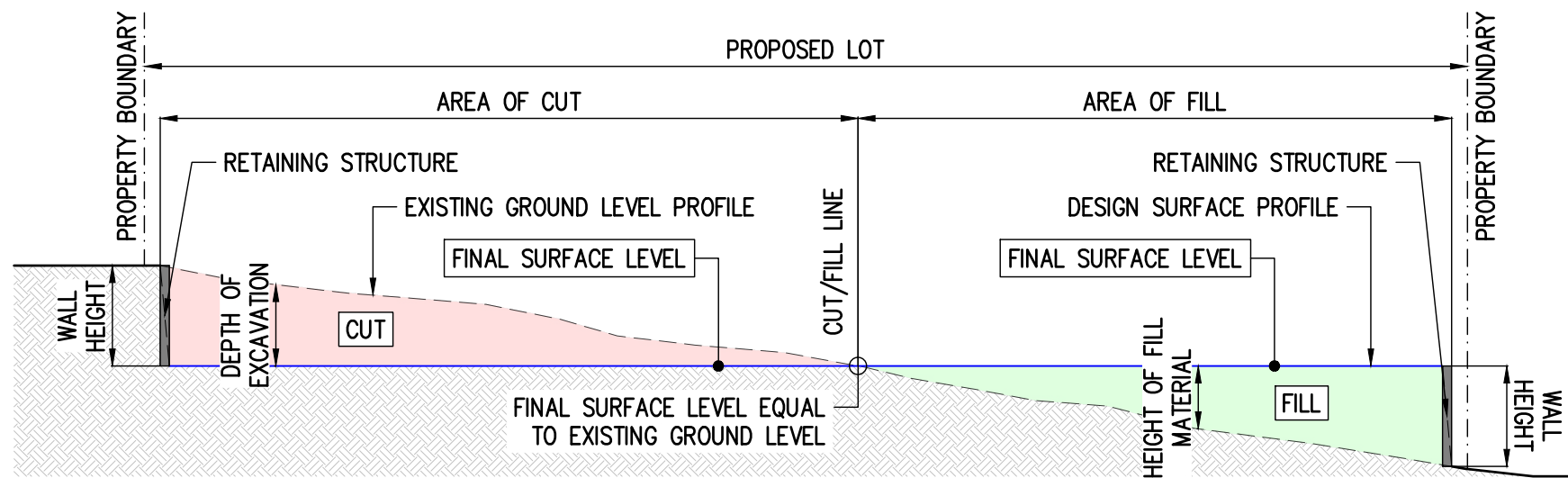
EARTHWORKS NOTES (CONTINUED)

- DURING CONSTRUCTION TO MINIMISE THE EFFECTS OF WEATHER CONDITIONS. SHOULD THERE BE DAMAGE TO THE WORKS AND/OR SURROUNDING AREAS AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE IN NOT PROVIDING ADEQUATE PROTECTION, NO EXTENSION OF TIME WILL BE GRANTED.
- IMPORTED FILL MATERIAL TO BE GRANULAR FILL WITH LOW PLASTICITY AND MATERIAL CHARACTERISTICS: CBR 10% MIN. (SUBJECT TO APPROVAL FROM ENGINEER)
- SUITABLE FILL MATERIAL IS TO COMPLY WITH CLAUSE 4.3, AS3798, GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- ALL BATTERS SHOULD BE PROTECTED FROM EROSION BY SURFACE PROTECTION. THE TYPE OF SURFACE PROTECTION WILL BE DEPENDANT ON FACTORS INCLUDING BATTER SLOPE, TYPE OF MATERIAL, ASPECT, AESTHETIC REQUIREMENTS ETC.
- AS PER SECTION 11 OF THE ENVIRONMENTAL PROTECTION ACT (EPA) 1994: ALL FILL MATERIALS ON SITE, ONLY COMPRISED OF NATURAL EARTH AND ROCK, MUST BE FREE OF CONTAMINANTS, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIALS.
- THE RELEVANT EPA POLICIES, PARTICULARLY THOSE REGARDING THE PRESENCE AND TREATMENT OF FIRE ANTS, APPLY TO ANY MOVEMENT OF MATERIAL TO AND FROM SITE.

Earthworks Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
TOPSOIL VOLUMES (75mm STRIP)	1.000	1.000	8136.99sq.m	610.27 Cu. M.	0.00 Cu. M.	610.27 Cu. M.<Cut>
EARTHWORKS VOLUMES (EXCL. TOPSOIL)	1.000	1.000	8135.46sq.m	189.04 Cu. M.	3425.49 Cu. M.	3236.45 Cu. M.<Fill>
Totals			16272.45sq.m	799.31 Cu. M.	3425.49 Cu. M.	2626.18 Cu. M.<Fill>

NOTE: INDICATED SURFACE LEVELS AND SUBSEQUENT EARTHWORKS VOLUMES ARE FINAL SURFACE LEVELS - SUBTRACT PAVEMENT SURFACING AND LAYERS.



TYPICAL SECTION THROUGH EARTHWORKS
SCALE N.T.S.



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

NOT FOR CONSTRUCTION

EXISTING SERVICES NOTE

THIS DESIGN HAS BEEN PREPARED BASED ON THE SERVICE AUTHORITY AS-CONSTRUCTED AND DETAIL AND CONTOUR SURVEY INFORMATION. POT HOLING WAS DONE TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DESIGN ON SITE.

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-EW001 FOR EARTHWORKS LAYOUT - PART 1 AND NOTES
REFER TO DRAWING 3582-01-EW003 FOR EARTHWORKS SECTIONS - PART 1
REFER TO DRAWING 3582-01-EW004 FOR EARTHWORKS SECTIONS - PART 2
REFER TO DRAWING 3582-01-RW001 FOR RETAINING WALL LAYOUT, NOTES AND DETAILS
REFER TO DRAWING 3582-01-RW002 FOR RETAINING WALL ELEVATIONS



DRAFTING AND RPEQ CERTIFICATION

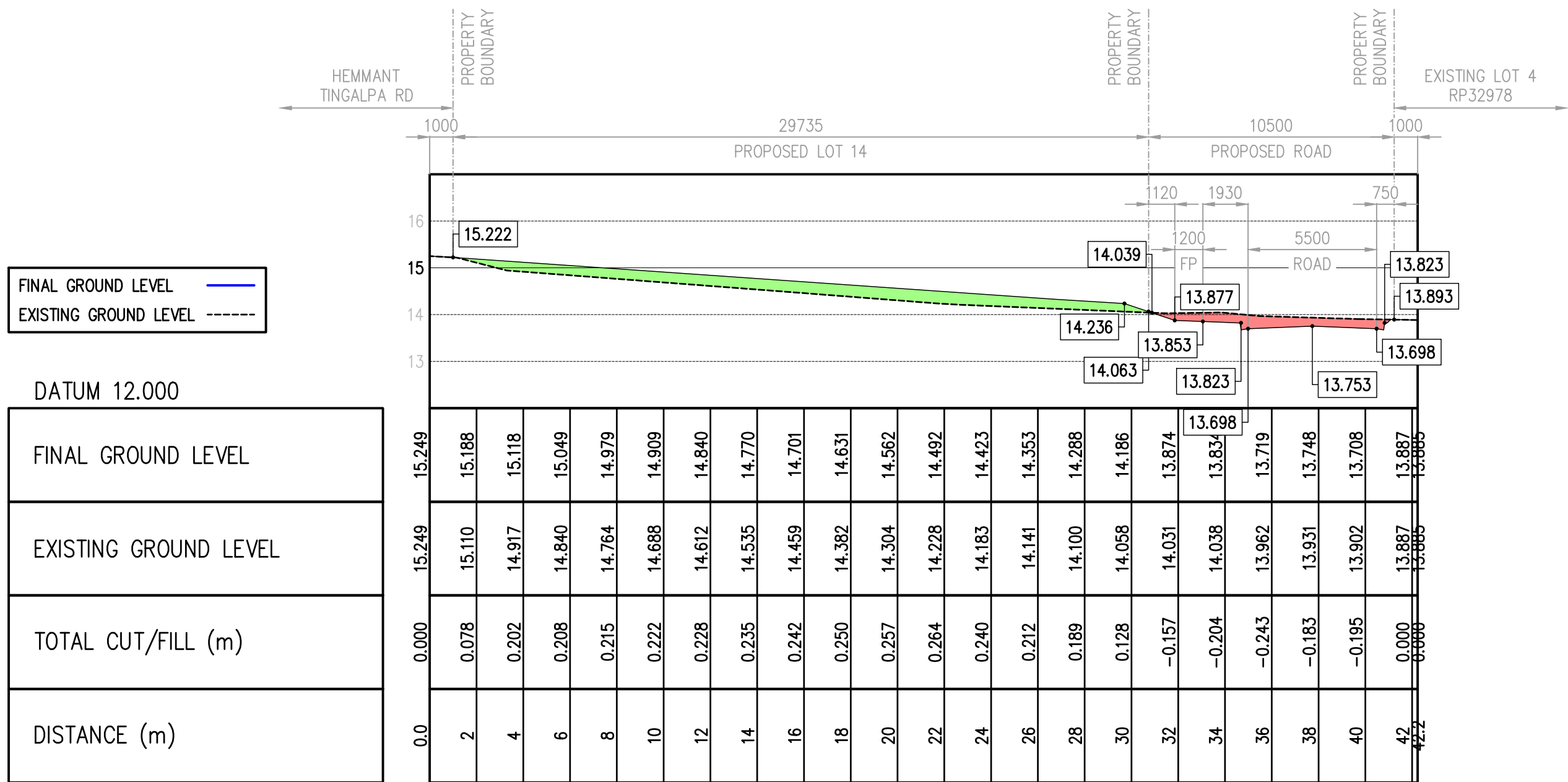


RPEQ CERTIFICATION

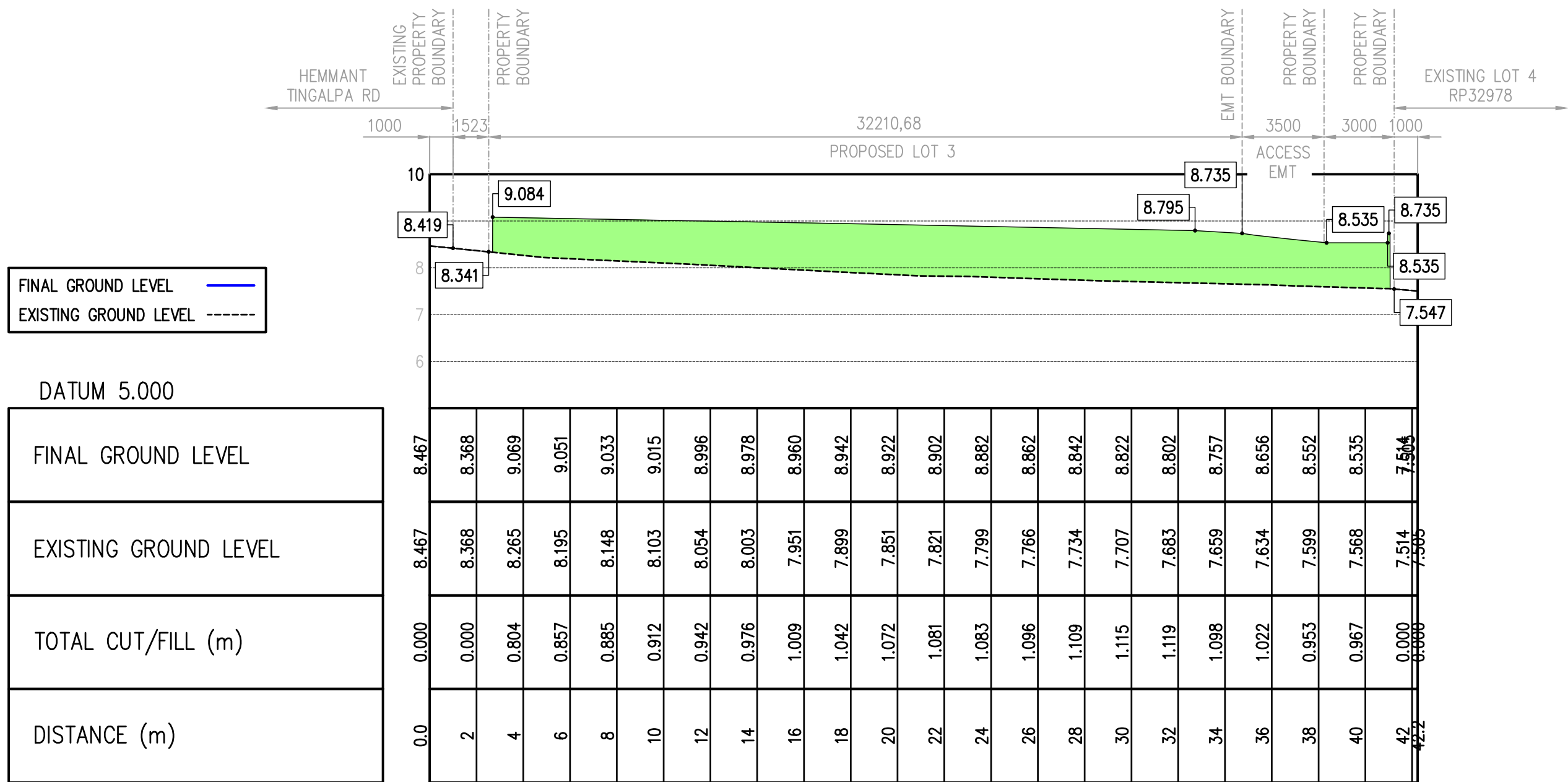
DATE 21/09/2026 SIGNED *Isaac Scot*
NAME OF SIGNATORY ISAAC SCOT
RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S.	CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
C	21/09/26	ISSUED FOR APPROVAL	S.V.	-	-	APPROVED	I.S.	DRAWING EARTHWORKS LAYOUT - PART 2 AND NOTES
			SIZE A1			SCALE AS SHOWN		

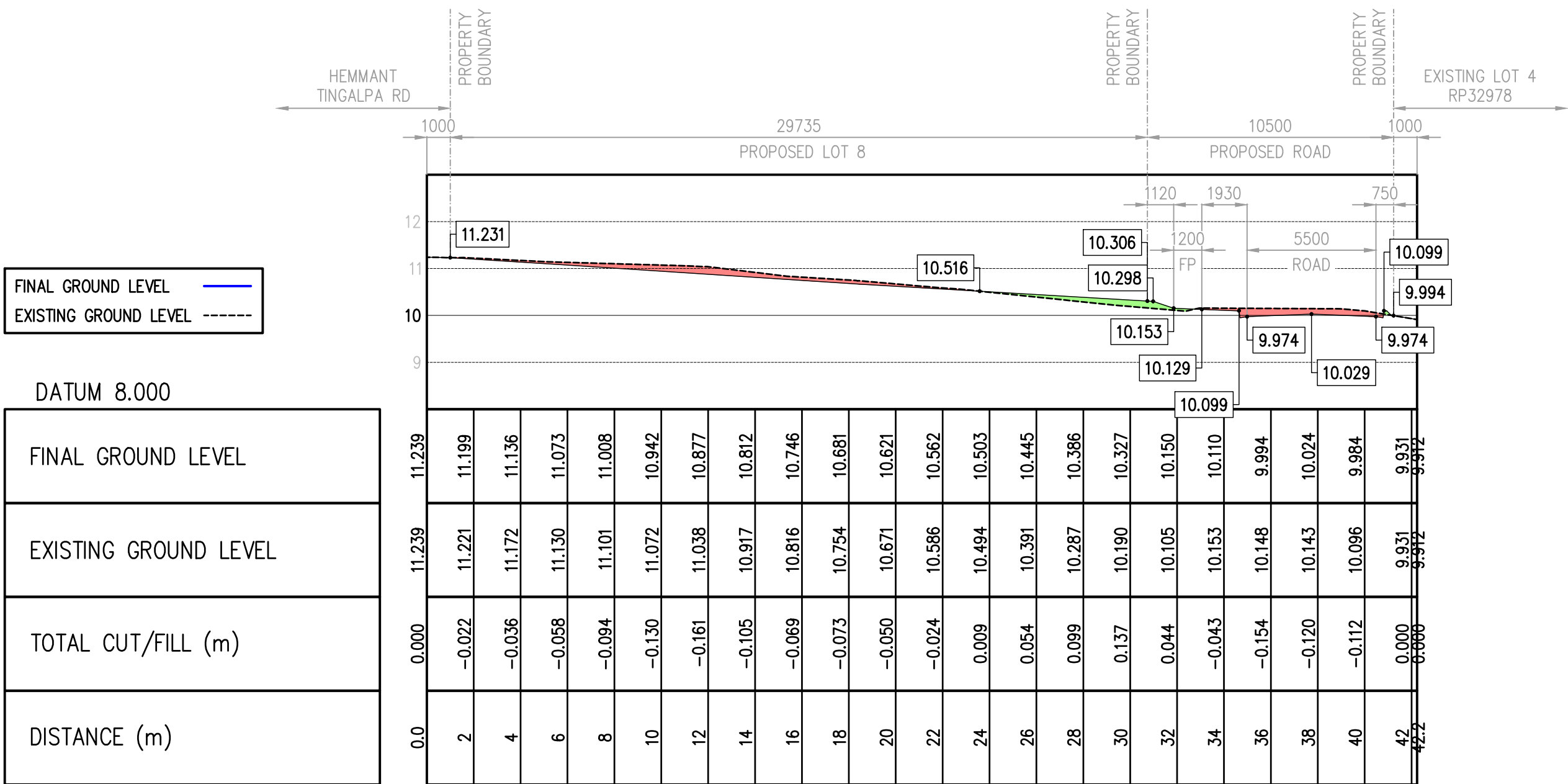
DRAWING STATUS	TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
DRAWING No.	3351-01-EW002				
REVISION	C				
SHEET	02	03	04		



EARTHWORKS SECTION A-A FROM 0.0m TO 42.2m
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100



EARTHWORKS SECTION C-C FROM 0.0m TO 42.2m
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100



EARTHWORKS SECTION B-B FROM 0.0m TO 42.2m
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100



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DOCUMENTATION.

NOT FOR CONSTRUCTION

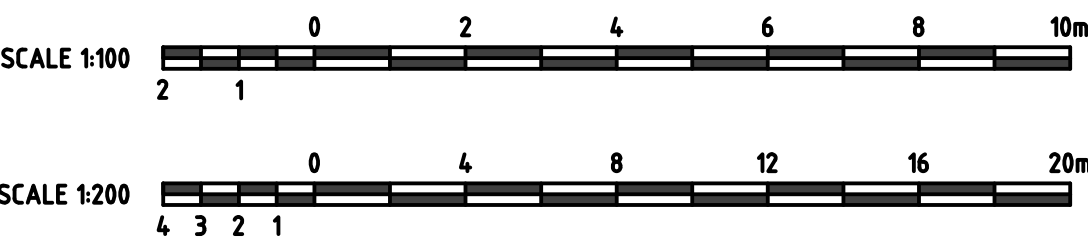
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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-EW001 FOR EARTHWORKS LAYOUT - PART 1 AND NOTES
REFER TO DRAWING 3582-01-EW002 FOR EARTHWORKS LAYOUT - PART 2 AND NOTES
REFER TO DRAWING 3582-01-EW004 FOR EARTHWORKS SECTIONS - PART 2
REFER TO DRAWING 3582-01-RW001 FOR RETAINING WALL LAYOUT, NOTES AND DETAILS
REFER TO DRAWING 3582-01-RW002 FOR RETAINING WALL ELEVATIONS



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V. 16/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S. 16/09/26
						APPROVED	I.S. 16/09/26
						SIZE	SCALE
						A1	AS SHOWN

PROJECT 489 HEMMANT TINGALPA ROAD,
TINGALPA, QLD, 4173

CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST

DRAWING EARTHWORKS SECTIONS - PART 1

DRAWING STATUS

TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED

DRAWING No.

3351-01-EW003

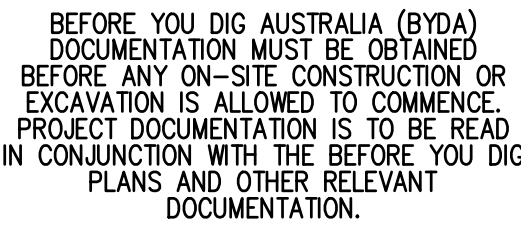
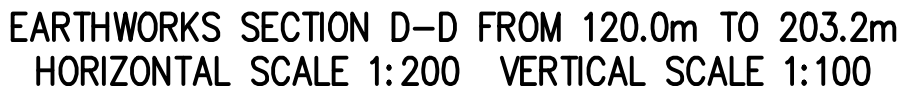
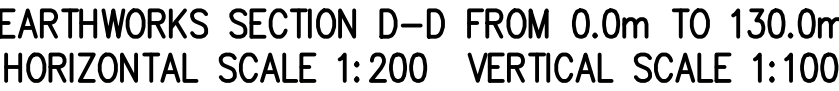
REVISION

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SHEET

03 04

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RECEIVED
21/09/2026
APPLICATION REF
A007057635



NOT FOR CONSTRUCTION

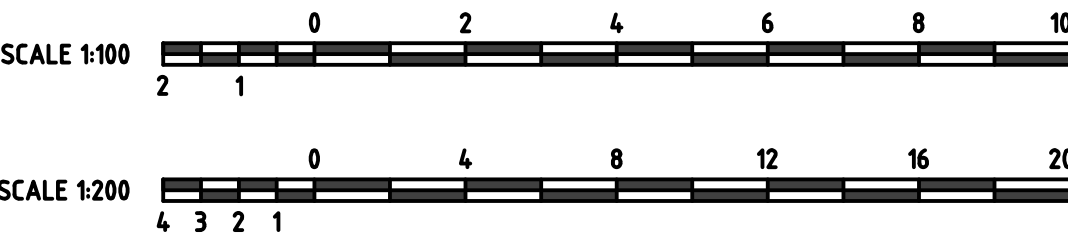
EXISTING SERVICES NOTE

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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-EW001 FOR EARTHWORKS LAYOUT - PART 1 AND NOTES
REFER TO DRAWING 3582-01-EW002 FOR EARTHWORKS LAYOUT - PART 2 AND NOTES
REFER TO DRAWING 3582-01-EW003 FOR EARTHWORKS SECTIONS - PART 1
REFER TO DRAWING 3582-01-RW001 FOR RETAINING WALL LAYOUT, NOTES AND DETAILS
REFER TO DRAWING 3582-01-RW002 FOR RETAINING WALL ELEVATIONS



RPEQ CERTIFICATION

DATE 29/04/2026 SIGNED 

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.		INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	—	—	DRAWN	S.V.	23/04/26
						CHECKED	I.S.	29/04/26
						APPROVED	I.S.	29/04/26
						SIZE A1	SCALE AS SHOWN	

<u>PROJECT</u>	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
<u>CLIENT</u>	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
<u>DRAWING</u>	EARTHWORKS SECTIONS – PART 2

DRAWING STATUS



TENDER



INFORMA



APPROV



CONSTRUC



-CONSTR

DRAWING No.
3351-01-EW004

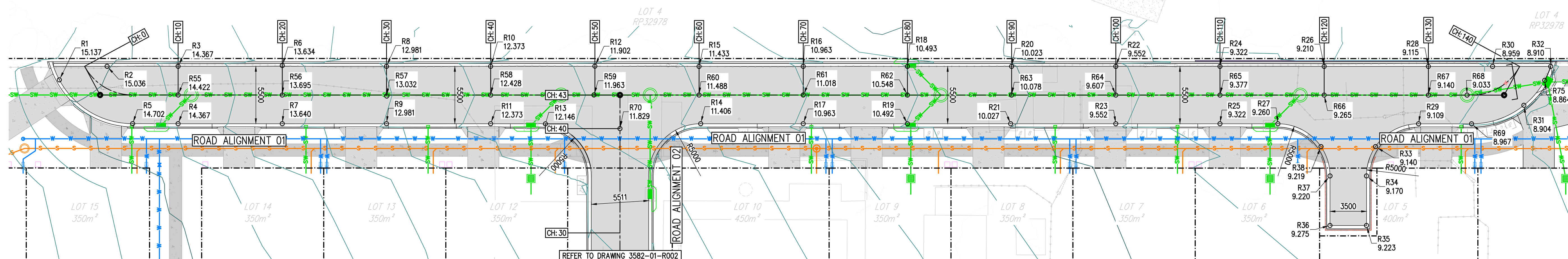
REVISION

SHEET

04

04

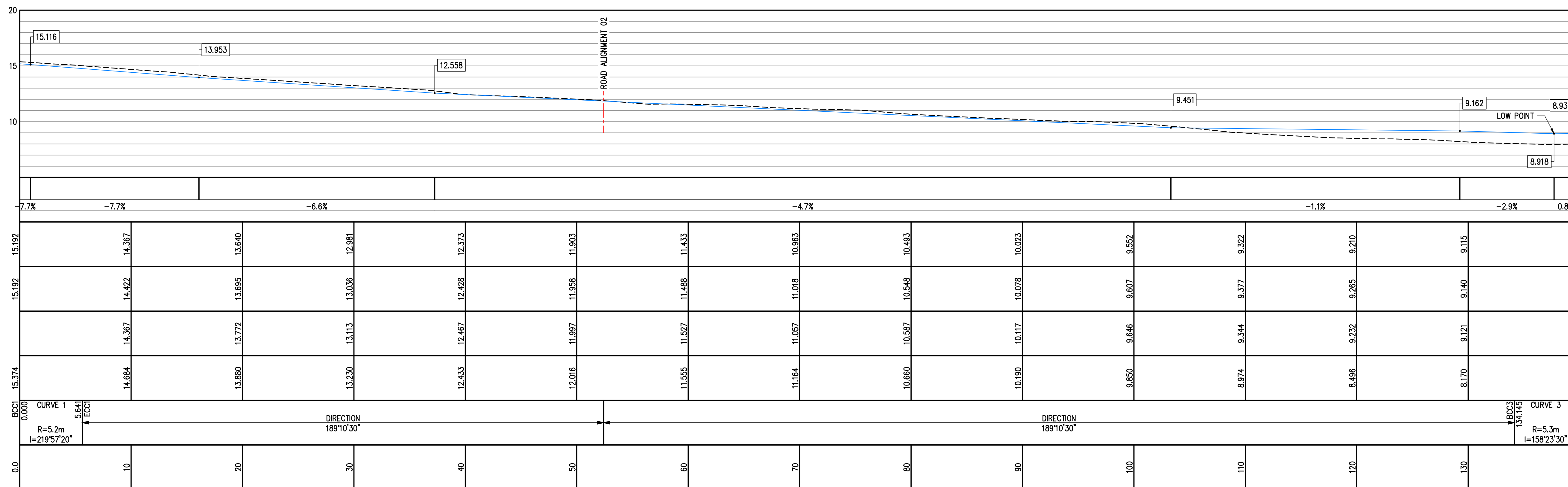
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RECEIVED
21/09/2026
APPLICATION REF
A007057635**



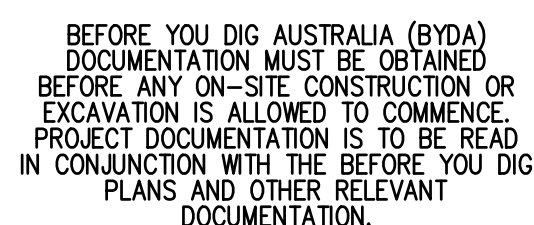
GL _____
ROAD _____

SCALES:
Horizontal 1:200
Vertical 1:200

VERTICAL PROFILE GRADES	
FINAL DESIGN ROAD LEVELS	LEFT EDGE
	CENTRE LINE (CL)
	RIGHT EDGE
EXISTING GROUND LEVEL	
HORIZONTAL ALIGNMENT	
DISTANCE (m)	



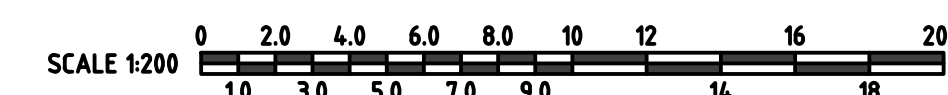
NOT FOR CONSTRUCTION



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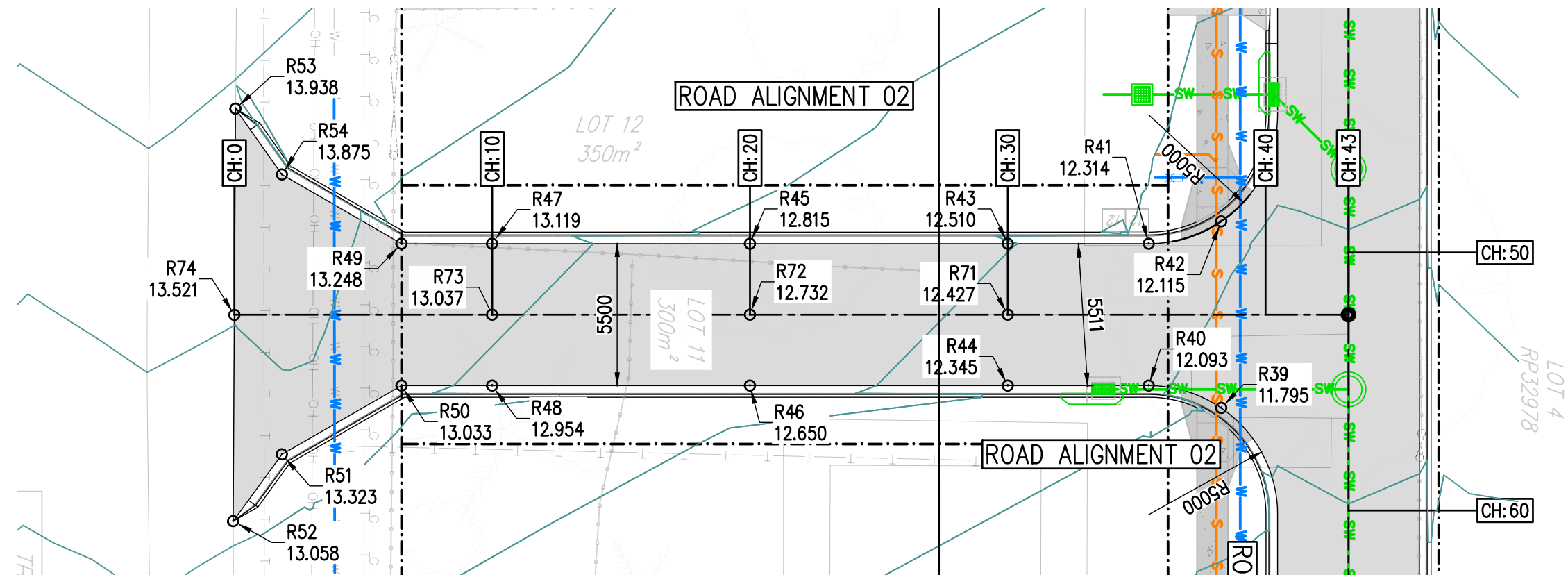
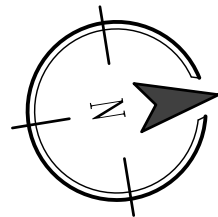
DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-R001 FOR ROAD ALIGNMENT 01 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R002 FOR ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R003 FOR ROAD ALIGNMENT 01 SECTIONS
REFER TO DRAWING 3582-01-R004 FOR ROAD ALIGNMENT 02 SECTIONS
REFER TO DRAWING 3582-01-R005 FOR ROAD DETAILS



DRAFTING AND RPEQ CERTIFICATION  BRAVO CONSULT www.bravoconsult.com.au 07 3062 8319	RPEQ CERTIFICATION DATE 21/09/2026 SIGNED  NAME OF SIGNATORY ISAAC SCOT RPEQ No. 16797		REV No. DATE DESCRIPTION A 24/04/26 ISSUED FOR APPROVAL B 16/09/26 ISSUED FOR APPROVAL C 21/09/26 ISSUED FOR APPROVAL	DRAWN RPEQ RPEQ No. V.N. - - DRAWN S.V. - - CHECKED S.V. - - APPROVED	INITIALS DATE S.V. 21/09/26 I.S. 21/09/26 I.S. 21/09/26	PROJECT 489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173 CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST DRAWING ROAD ALIGNMENT 01 – LAYOUT AND PROFILE VIEW	DRAWING STATUS ☐ TENDER ☐ INFORMATION ☒ APPROVAL ☐ CONSTRUCTION ☐ AS-CONSTRUCTED DRAWING No. 3351-01-R001 REVISION C SHEET 01 OF 05
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BCC DS
RECEIVED
21/09/2026
APPLICATION REF
A007057635



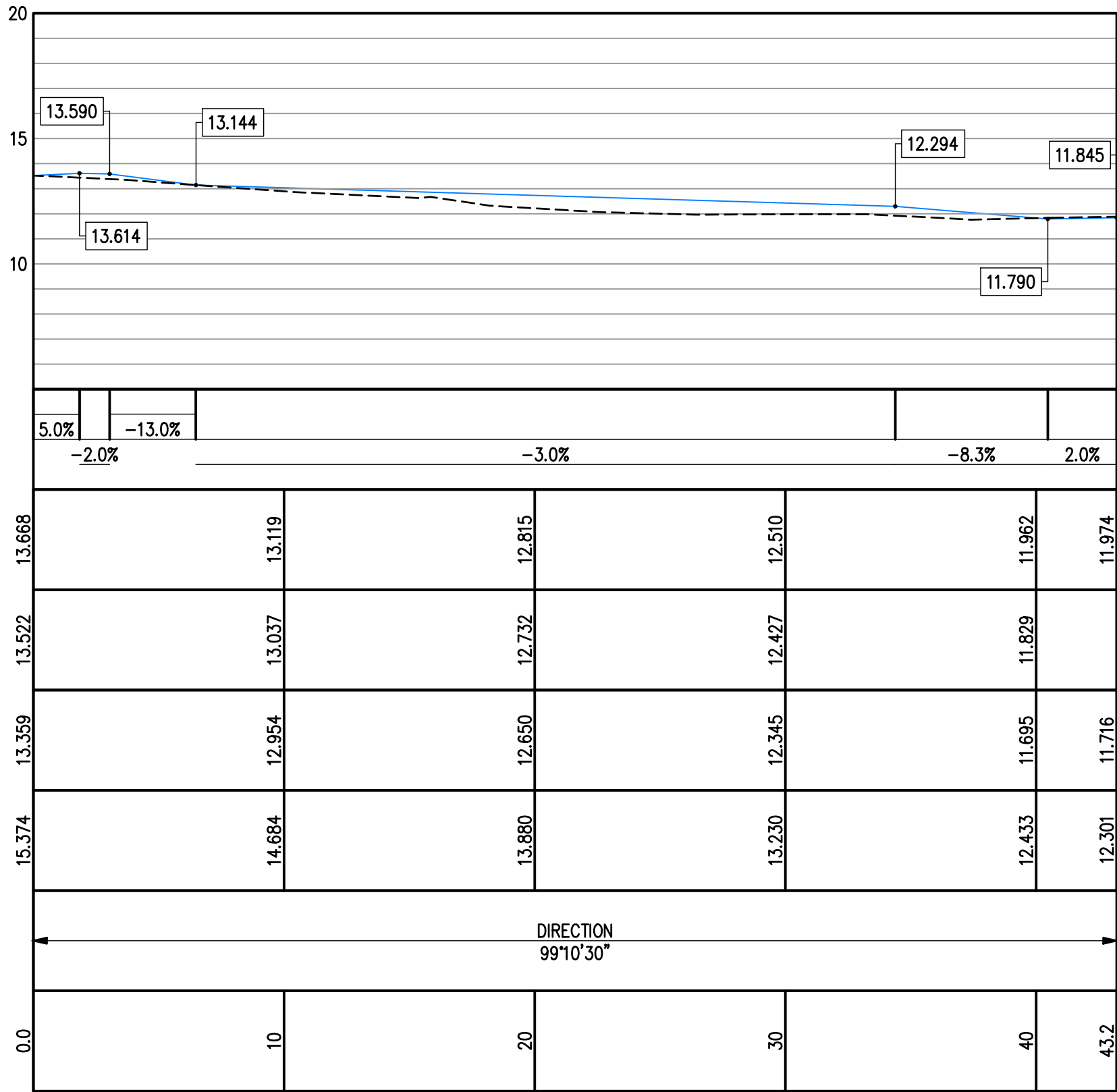
ROAD ALIGNMENT 02 – LAYOUT
SCALE 1:200

GL
ROAD

SCALES:
Horizontal 1:200
Vertical 1:200

DATUM 5.000

VERTICAL PROFILE GRADES	
FINAL DESIGN ROAD LEVELS	LEFT EDGE
	CENTRE LINE (CL)
	RIGHT EDGE
EXISTING GROUND LEVEL	
HORIZONTAL ALIGNMENT	
DISTANCE (m)	



ROAD ALIGNMENT 02 FROM 0.0m TO 43.2m
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:200

POINT TABLE			
POINT	Y	X	Z
R1	324.964	686.498	15.137
R2	329.696	685.945	15.036
R3	336.424	687.032	14.367
R4	335.547	692.461	14.367
R5	331.244	691.766	14.702
R6	346.308	688.556	13.634
R7	345.419	694.056	13.640
R8	356.168	690.220	12.981
R9	355.292	695.650	12.981
R10	366.041	691.815	12.373
R11	365.164	697.244	12.373
R12	375.915	693.392	11.902
R13	370.351	698.099	12.146
R14	385.066	700.459	11.406
R15	385.784	695.011	11.433
R16	395.657	696.598	10.963
R17	394.780	702.028	10.963
R18	405.529	698.193	10.493
R19	404.651	703.625	10.492
R20	415.401	699.787	10.023
R21	414.434	705.202	10.027
R22	425.273	701.382	9.552
R23	424.396	706.811	9.552
R24	435.145	702.976	9.322
R25	434.268	708.405	9.322
R26	445.017	704.571	9.210
R27	439.758	709.292	9.260
R28	454.889	706.165	9.115
R29	453.086	711.445	9.109
R30	460.972	707.148	8.959
R31	463.347	711.305	8.904
R32	466.484	708.037	8.910
R33	448.656	712.944	9.140
R34	447.352	715.583	9.170
R35	446.595	720.273	9.223
R36	443.140	719.715	9.275
R37	443.897	715.025	9.220
R38	443.490	712.110	9.219

POINT TABLE			
POINT	Y	X	Z
R39	380.636	701.958	11.795
R40	379.332	704.598	12.093
R41	373.903	703.721	12.314
R42	373.496	700.805	12.115
R43	373.031	709.117	12.510
R44	378.461	709.994	12.345
R45	371.437	718.990	12.815
R46	376.866	719.866	12.650
R47	369.842	728.862	13.119
R48	375.272	729.739	12.954
R49	369.282	732.334	13.248
R50	374.711	733.210	13.033
R51	376.602	738.214	13.323
R52	378.857	740.493	13.058
R53	363.085	737.854	13.938
R54	365.891	736.484	13.875
R55	335.986	689.746	14.422
R56	345.858	691.341	13.695
R57	355.737	693.037	13.032
R58	365.602	694.530	12.428
R59	375.385	696.110	11.963
R60	385.346	697.718	11.488
R61	395.218	699.313	11.018
R62	405.090	700.907	10.548
R63	414.962	702.502	10.078
R64	424.835	704.096	9.607
R65	434.707	705.691	9.377
R66	444.579	707.285	9.265
R67	454.451	708.879	9.140
R68	458.118	709.472	9.033
R69	458.105	712.255	8.967
R70	377.340	699.684	11.829
R71	375.746	709.556	12.427
R72	374.152	719.428	12.732
R73	372.557	729.300	13.037
R74	370.971	739.174	13.521
R75	465.700	709.263	8.864



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NOT FOR CONSTRUCTION

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-R001 FOR ROAD ALIGNMENT 01 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R002 FOR ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R003 FOR ROAD ALIGNMENT 01 SECTIONS
REFER TO DRAWING 3582-01-R004 FOR ROAD ALIGNMENT 02 SECTIONS
REFER TO DRAWING 3582-01-R005 FOR ROAD DETAILS



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.

DATE

DESCRIPTION

DRAWN

RPEQ

RPEQ No.

INITIALS

DATE

PROJECT

489 HEMMANT TINGALPA ROAD,
TINGALPA, QLD, 4173

CLIENT

SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST

DRAWING

ROAD ALIGNMENT 02 – LAYOUT AND PROFILE VIEW

DRAWING STATUS



TENDER



INFORMATION



APPROVAL



CONSTRUCTION



AS-CONSTRUCTED

DRAWING No.

3351-01-R002

REVISION

B

SHEET

02

OE

05

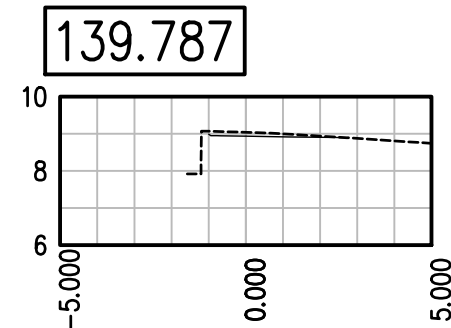
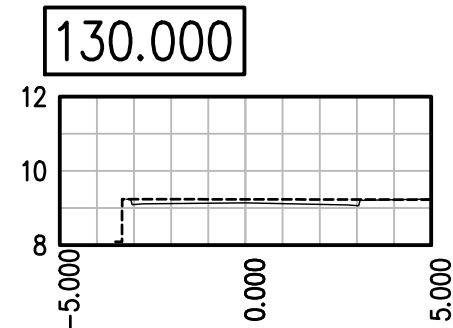
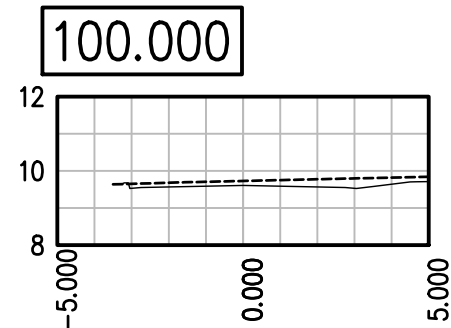
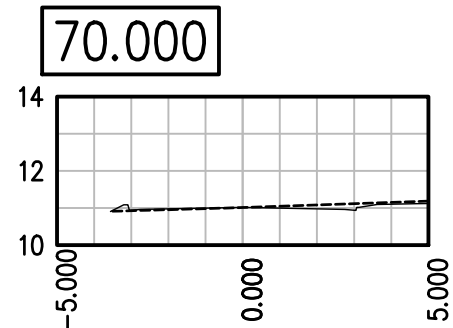
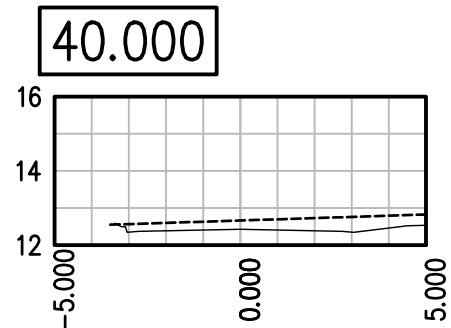
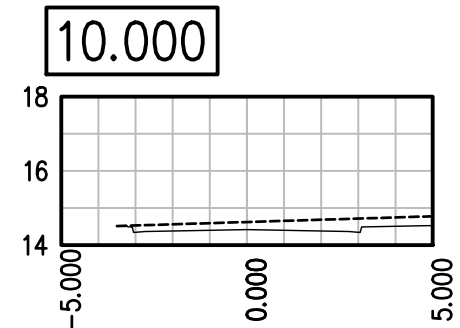
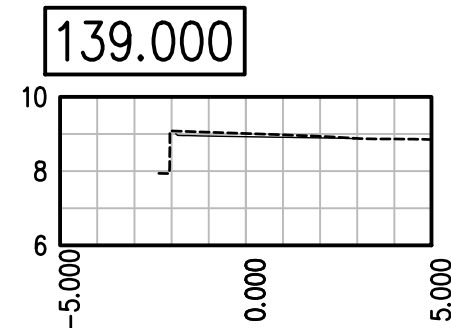
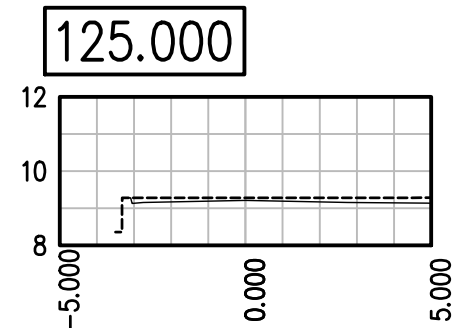
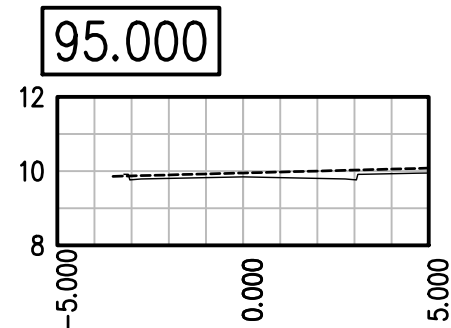
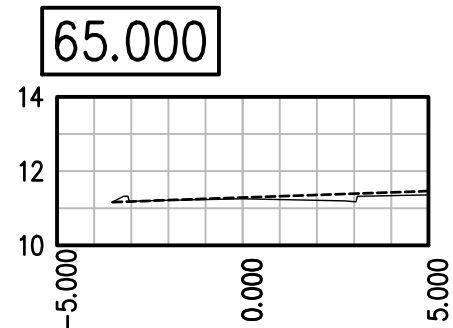
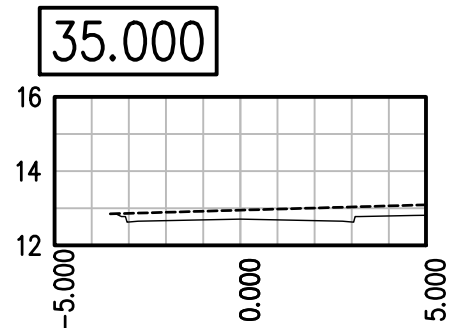
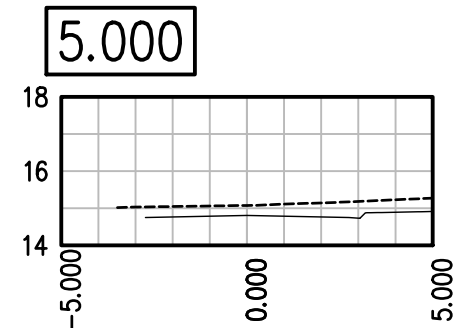
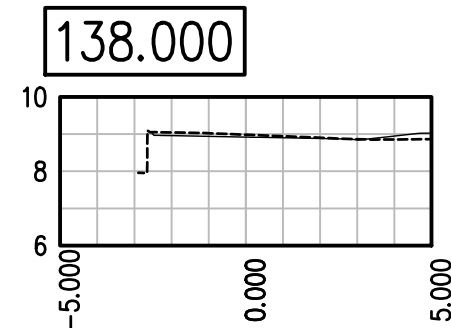
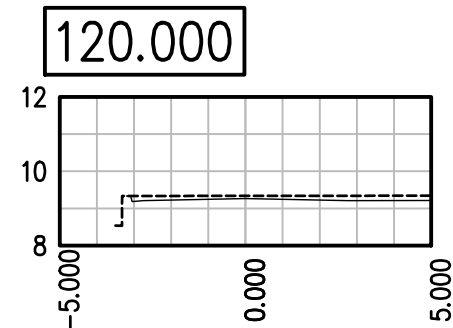
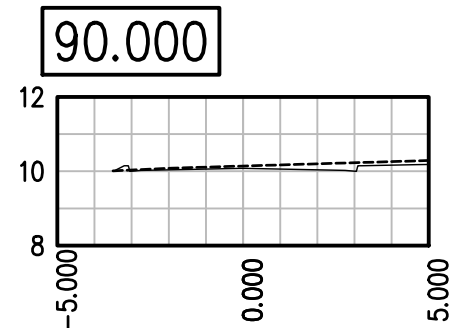
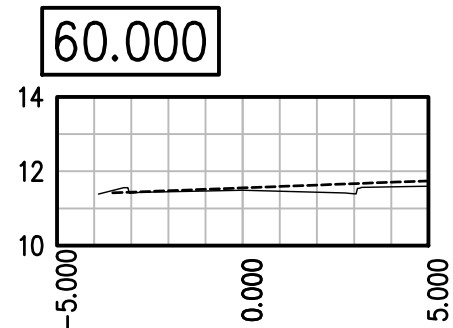
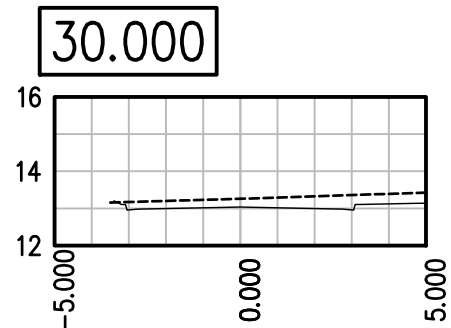
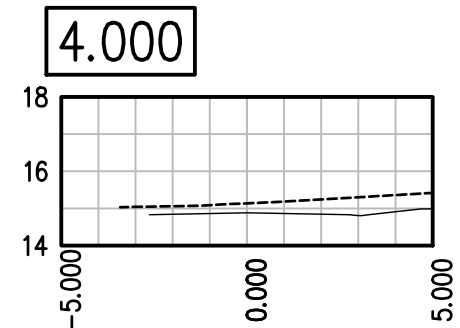
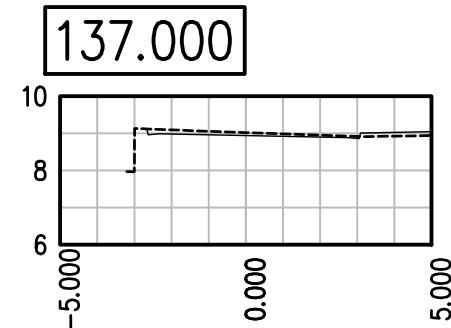
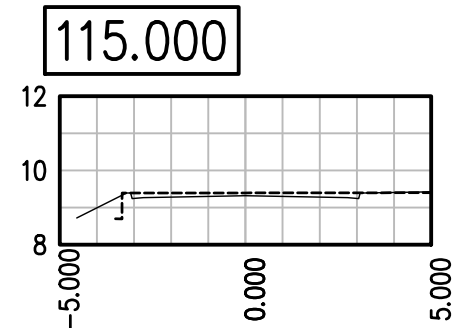
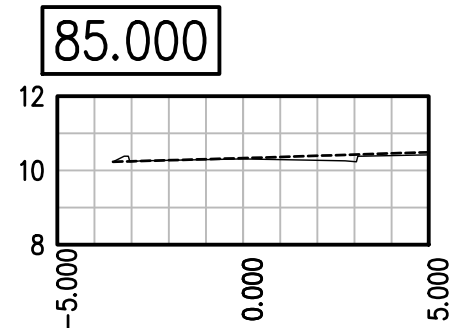
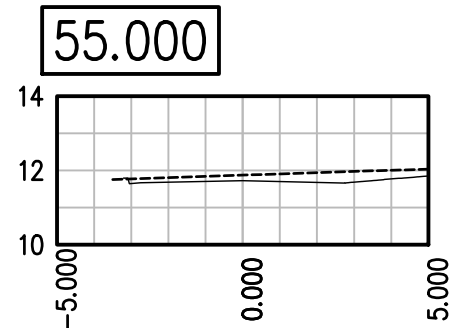
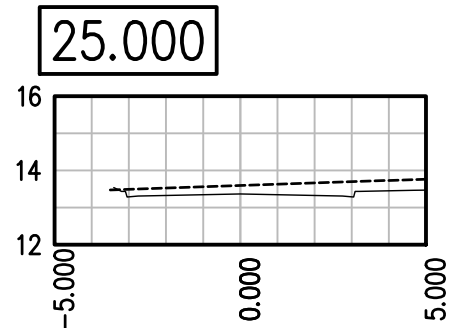
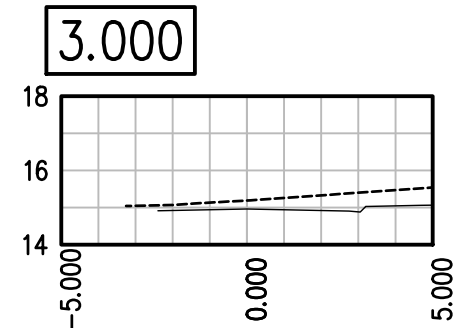
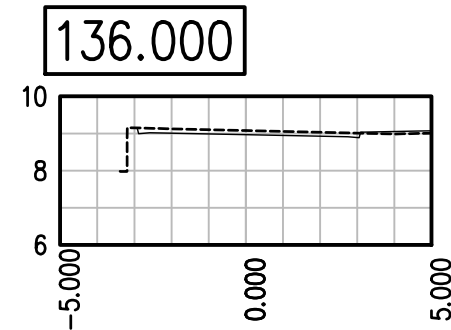
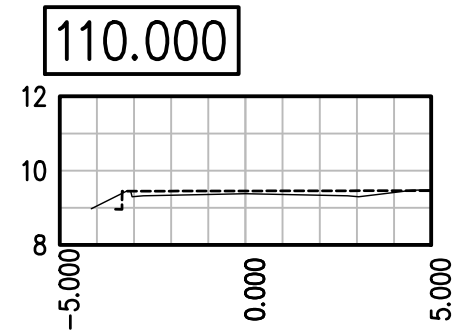
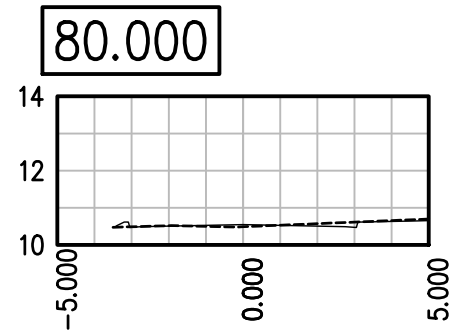
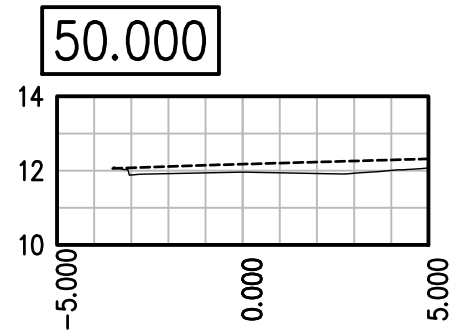
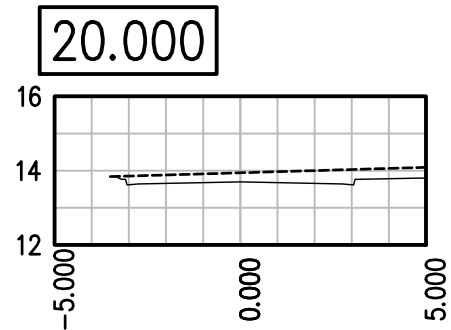
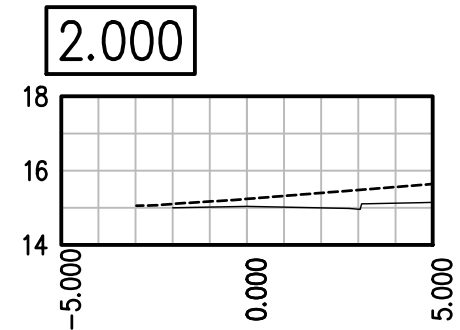
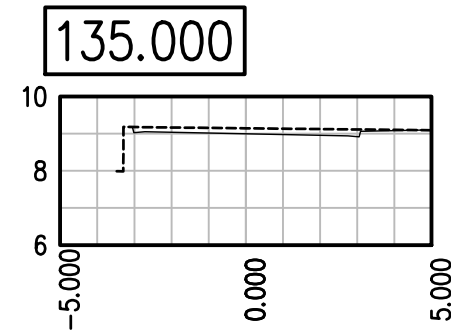
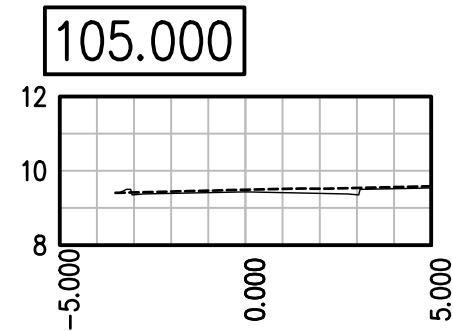
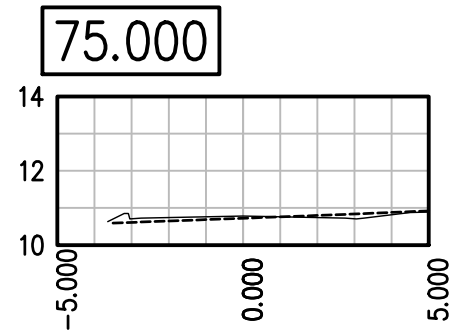
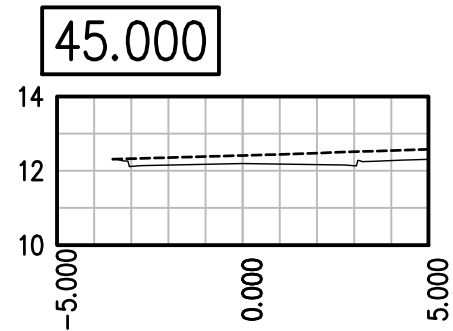
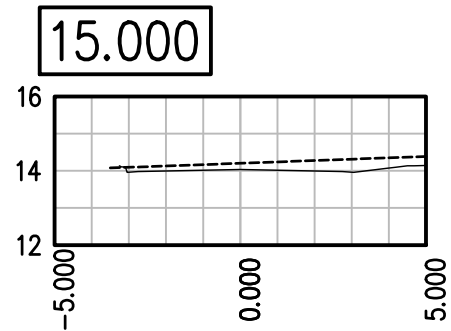
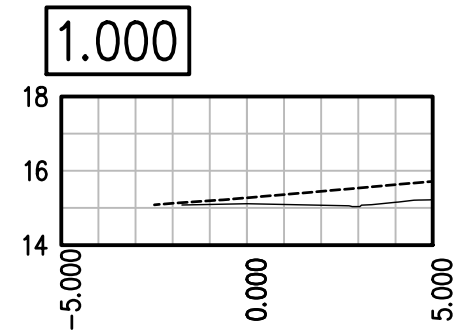
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21/09/2025

APPLICATION REF

A007057635



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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

NOT FOR CONSTRUCTION

REFER TO DRAWING 3582-01-R001 FOR ROAD ALIGNMENT 01 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R002 FOR ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R003 FOR ROAD ALIGNMENT 01 SECTIONS
REFER TO DRAWING 3582-01-R004 FOR ROAD ALIGNMENT 02 SECTIONS
REFER TO DRAWING 3582-01-R005 FOR ROAD DETAILS



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 24/04/2026 SIGNED *Isaac Scot*
NAME OF SIGNATORY ISAAC SCOT
RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT
A	24/04/26	ISSUED FOR APPROVAL	V.N.	-	-	DRAWN	V.N.	24/04/26
						CHECKED	I.S.	24/04/26
						APPROVED	I.S.	24/04/26
						SIZE	SCALE	
						A1	AS SHOWN	

CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
DRAWING	ROAD ALIGNMENT 01 – SECTIONS

DRAWING STATUS



DRAWING No.

3351-01-R003

REVISION

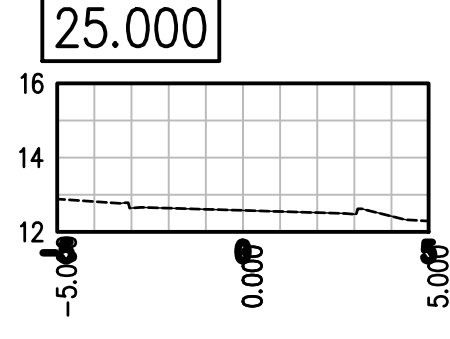
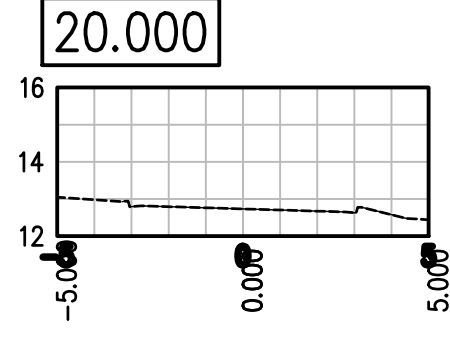
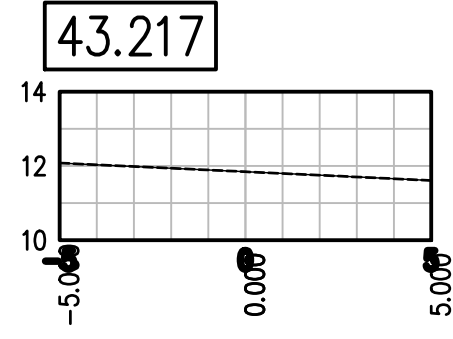
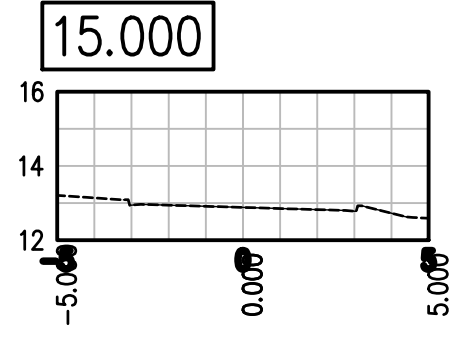
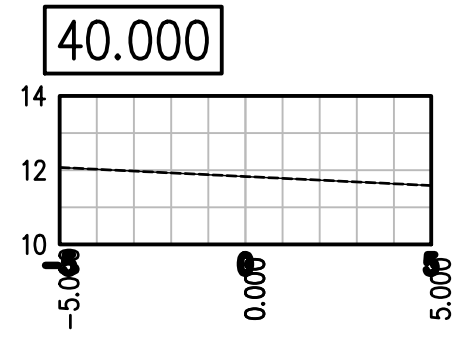
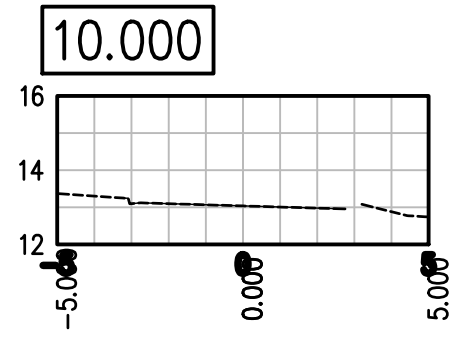
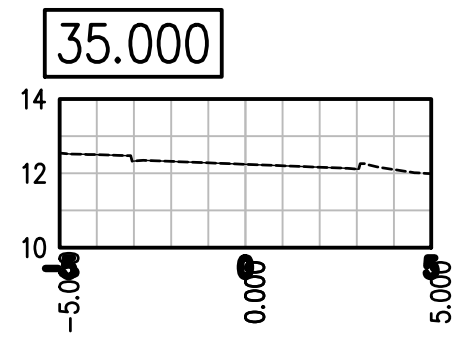
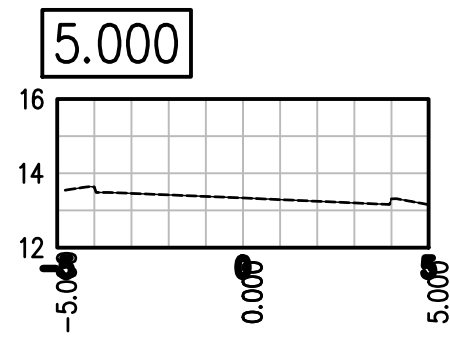
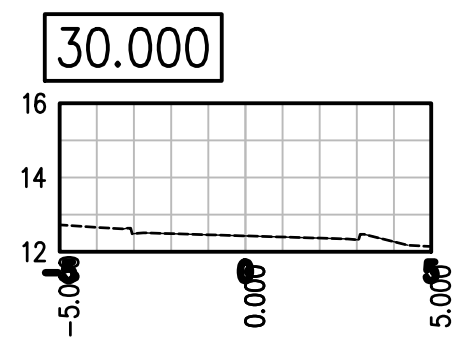
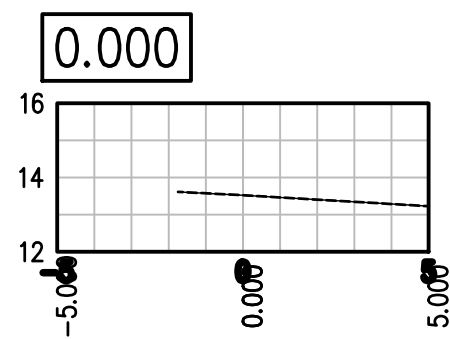
A

SHEET

03

OE

05



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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

NOT FOR CONSTRUCTION

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REFER TO DRAWING 3582-01-R002 FOR ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R003 FOR ROAD ALIGNMENT 01 SECTIONS
REFER TO DRAWING 3582-01-R004 FOR ROAD ALIGNMENT 02 SECTIONS
REFER TO DRAWING 3582-01-R005 FOR ROAD DETAILS



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 24/04/2026 SIGNED

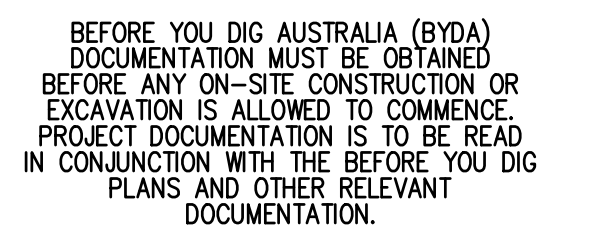
NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT
A	24/04/26	ISSUED FOR APPROVAL	V.N.	-	-	DRAWN	24/04/26	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
						CHECKED	24/04/26	CLIENT SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
						APPROVED	24/04/26	
						SIZE	SCALE	DRAWING
						A1	AS SHOWN	ROAD ALIGNMENT 02 – SECTIONS

DRAWING STATUS	TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
	☐	☐	☒	☐	☐
DRAWING No.	REVISION A				
3351-01-R004	SHEET	04	OE	05	

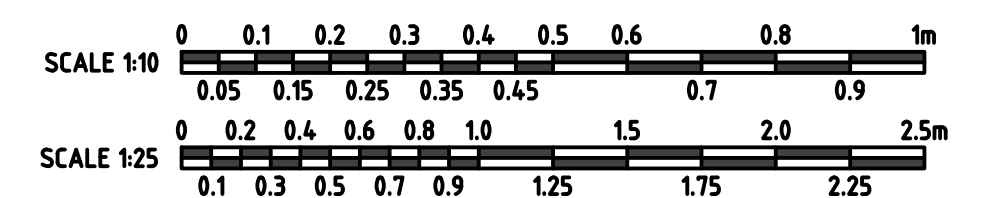
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21/09/2025
APPLICATION REF
A007057635



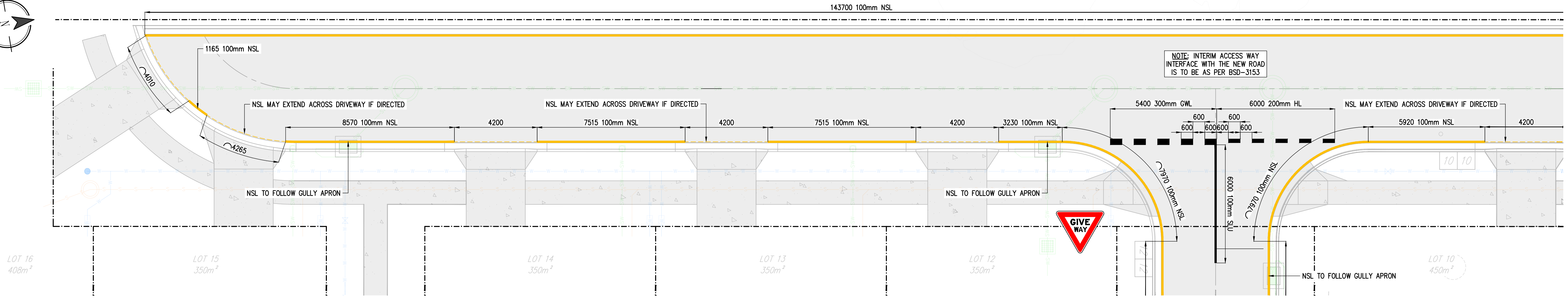
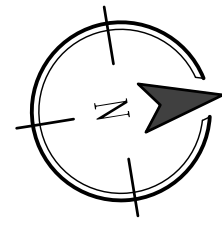
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DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

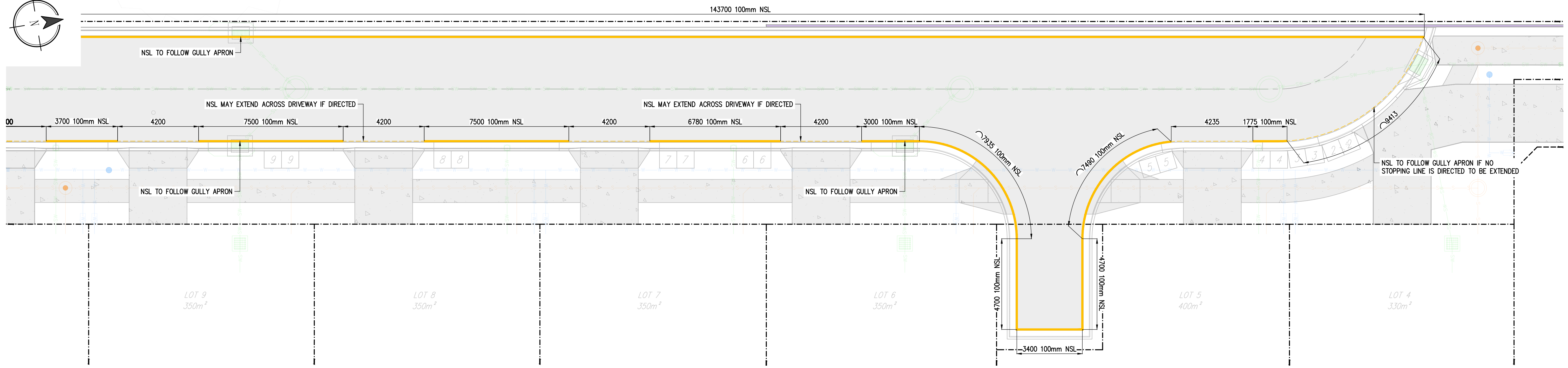
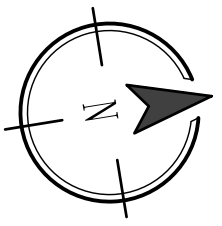
REFER TO DRAWING 3582-01-R001 FOR ROAD ALIGNMENT 01 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R002 FOR ROAD ALIGNMENT 02 LAYOUT AND PROFILE VIEW
REFER TO DRAWING 3582-01-R003 FOR ROAD ALIGNMENT 01 SECTIONS
REFER TO DRAWING 3582-01-R004 FOR ROAD ALIGNMENT 02 SECTIONS
REFER TO DRAWING 3582-01-R005 FOR ROAD DETAILS



DRAFTING AND RPEQ CERTIFICATION  BRAVO CONSULT www.bravoconsult.com.au 07 3062 9399	RPEQ CERTIFICATION		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.		INITIALS	DATE	PROJECT	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173		DRAWING STATUS								
	DATE	16/09/2026	SIGNED			A	24/04/26	ISSUED FOR APPROVAL	V.N.	-	-	DRAWN	S.V.	16/09/26	CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST							
	NAME OF SIGNATORY	ISAAC SCOT		B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S.	16/09/26	APPROVED	I.S.		16/09/26	DRAWING	ROAD TYPICAL DETAILS		REVISION			
	RPEQ No.	16797												SIZE		SCALE		AS SHOWN	3351-01-R005		B		
													A1						SHEET	05	OF	05	



ROAD MARKINGS LAYOUT – PART 1
SCALE 1:100



ROAD MARKINGS LAYOUT – PART 2
SCALE 1:100

LEGEND

- 100mm WIDE YELLOW NO STOPPING LINE (NSL) FULL TIME PARKING RESTRICTIONS AS PER STD DRAWING BSD-3151
- 300mm WIDE GIVE WAY LINE (GWL) 600/600 AS PER STD DRAWING BSD-3152
- 200mm WIDE HOLDING LINE (HL) 600/600 AS PER STD DRAWING BSD-3152
- 100mm WIDE SEPARATION LINE (SLU) TWO LANE ROAD – UNBROKEN AS PER STD DRAWING BSD-3151

NOTE: BRISBANE CITY COUNCIL STANDARD DRAWING 3000 SERIES TO BE USED AS THE PRIMARY REFERENCE FOR ALL LINE MARKINGS AND SIGNS.

NOT FOR CONSTRUCTION



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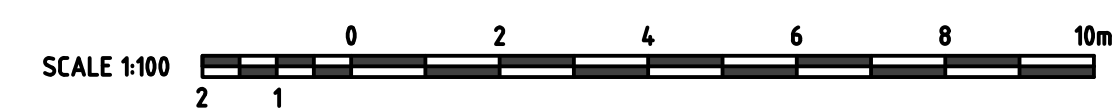
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REAL PROPERTY DESCRIPTION

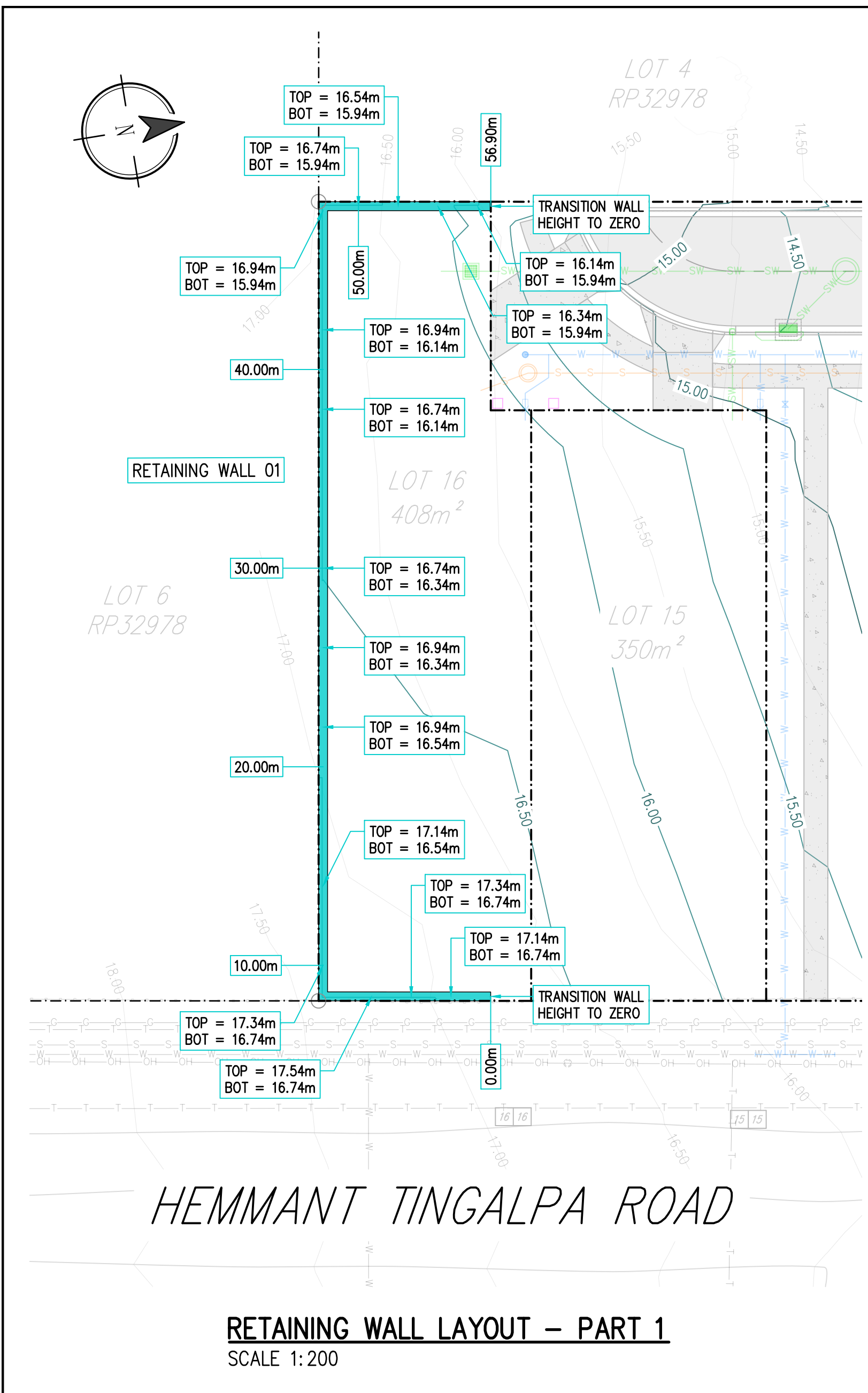
DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-RM002 FOR ROAD MARKINGS LAYOUT – PART 2 AND NOTES



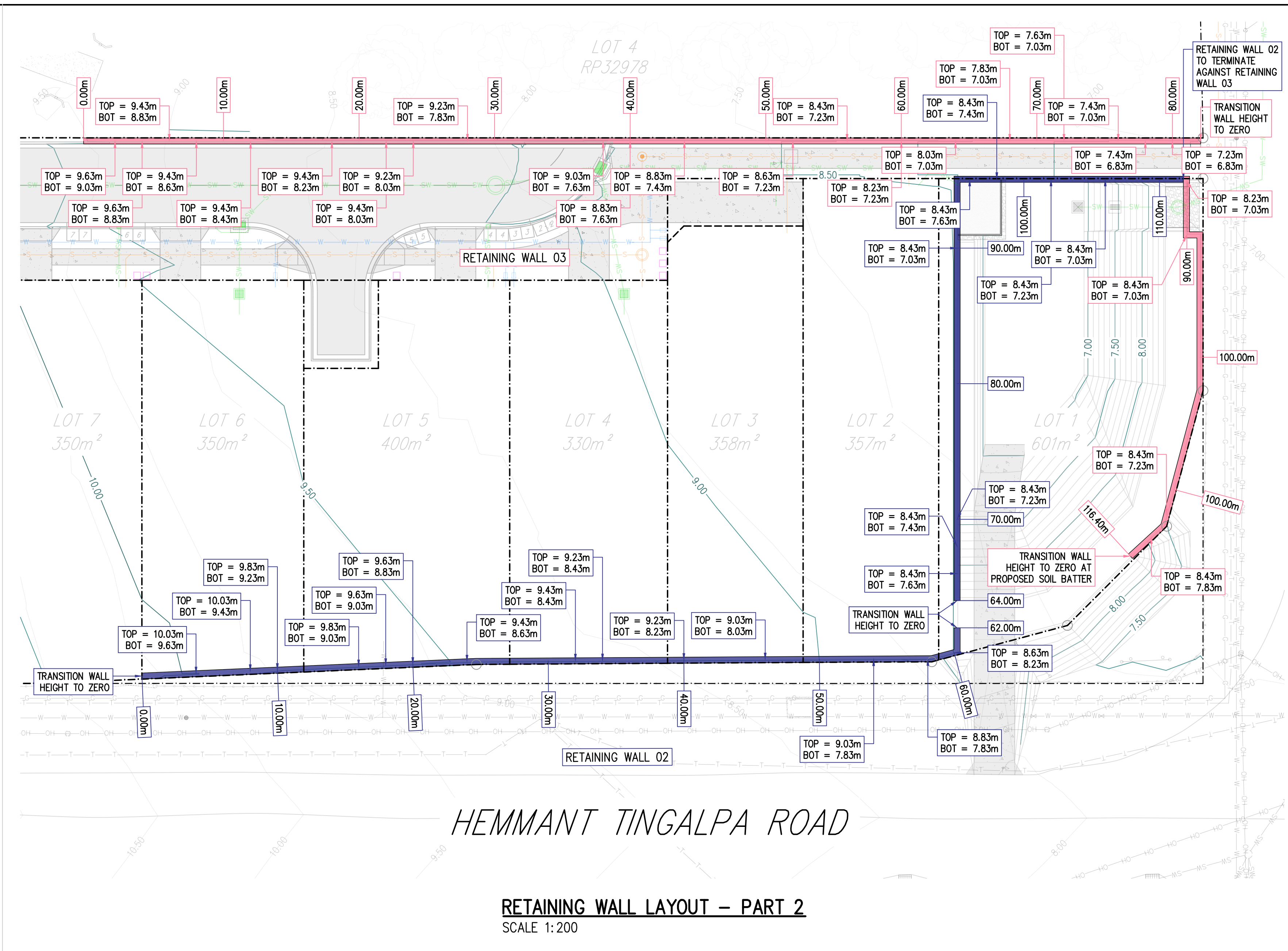
DRAFTING AND RPEQ CERTIFICATION		RPEQ CERTIFICATION		REV No.		DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT	DRAWING STATUS	
		DATE	21/09/2026	SIGNED			A	23/04/26	ISSUED FOR APPROVAL	S.V.	–	–	DRAWN	S.V.	21/09/26
		NAME OF SIGNATORY	ISAAC SCOT				B	16/09/26	ISSUED FOR APPROVAL	S.V.	–	–	CHECKED	I.S.	21/09/26
		RPEQ No.	16797				C	21/09/26	ISSUED FOR APPROVAL	S.V.	–	–	APPROVED	I.S.	21/09/26
													SIZE	SCALE	
													A1	AS SHOWN	
													CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	
													DRAWING	ROAD MARKINGS LAYOUT – PART 1	
														3582-01-RM001	
														REVISION	C
														SHEET	01
														02	02

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APPLICATION REF
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HEMMANT TINGALPA ROAD

RETAINING WALL LAYOUT – PART 1
SCALE 1:200



HEMMANT TINGALPA ROAD

RETAINING WALL LAYOUT – PART 2
SCALE 1:200

LEGEND	
	NEW STORMWATER PIPE AND MANHOLE
	NEW STORMWATER KERB ADAPTOR
	NEW STORMWATER PIT
	NEW STORMWATER GULLY PIT ROAD INLET
	EXISTING STORMWATER PIPE AND CHAMBER
	EXISTING STORMWATER INLET PIT
	EXISTING STORMWATER HEADWALL
	NEW SEWER PIPE AND MANHOLE
	NEW SEWER MAINTENANCE SHAFT
	NEW SEWER PROPERTY CONNECTION
	NEW SEWER INSPECTION SLAB
	EXISTING SEWER PIPE AND MANHOLE
	NEW WATER PIPE
	NEW WATER VALVE
	NEW WATER HYDRANT
	NEW WATER METER – SINGLE DOMESTIC
	EXISTING WATER PIPE
	EXISTING WATER VALVE
	EXISTING WATER HYDRANT
	EXISTING TELECOM SERVICE AND PIT
	EXISTING GAS LINE
	EXISTING O/H ELECTRICITY AND POLE
	EXISTING SERVICES – TO BE ABANDONED
	PROPERTY BOUNDARY
	EXISTING FENCE LINE
	FINAL SURFACE LEVEL CONTOURS
	EXISTING GROUND LEVEL CONTOURS
	SURVEY REFERENCE MARK
	NEW CONCRETE
	EXISTING CONCRETE
	NEW ASPHALT
	NEW TURFED AREA
	NEW RETAINING WALL
	EXISTING RETAINING WALL



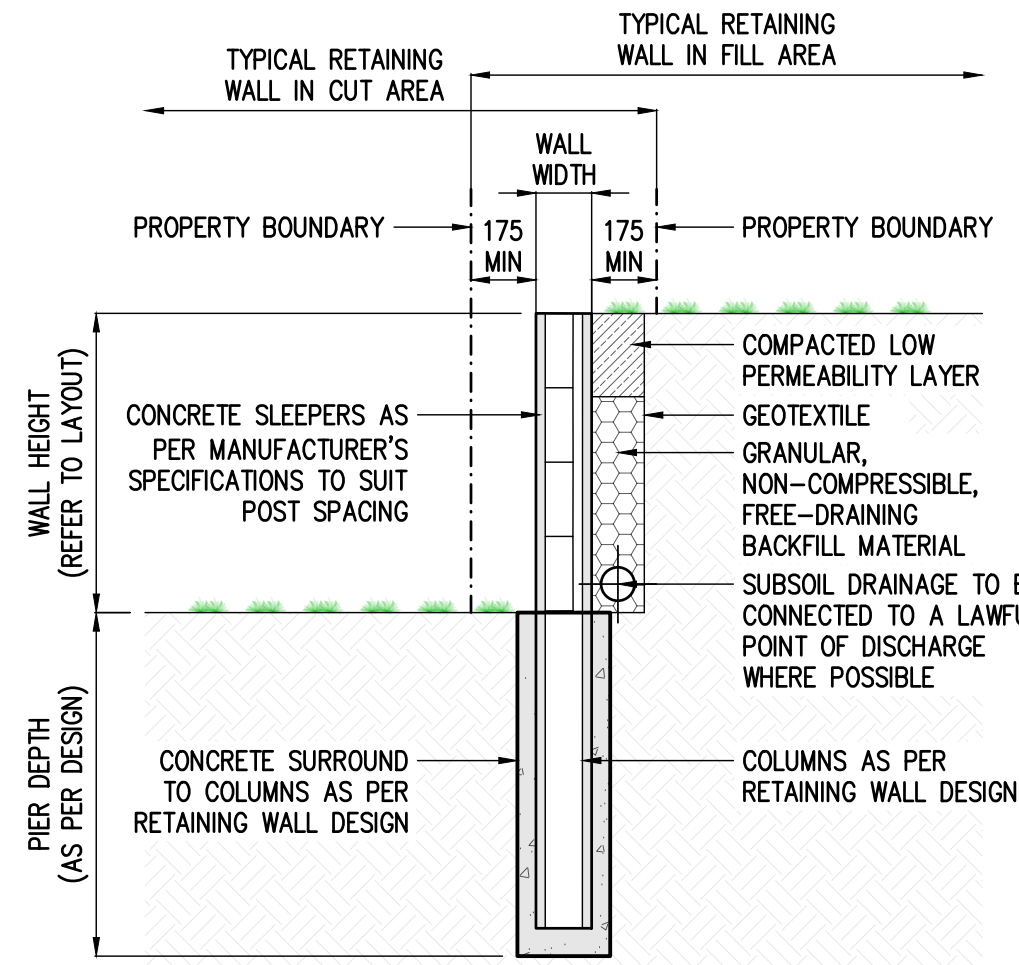
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LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-RW002 FOR RETAINING WALL ELEVATIONS
REFER TO DRAWING 3582-01-EW001 FOR EARTHWORKS LAYOUT – PART 1 AND NOTES
REFER TO DRAWING 3582-01-EW002 FOR EARTHWORKS LAYOUT – PART 2 AND NOTES
REFER TO DRAWING 3582-01-EW003 FOR EARTHWORKS SECTIONS – PART 1
REFER TO DRAWING 3582-01-EW004 FOR EARTHWORKS SECTIONS – PART 2



TYPICAL CONCRETE SLEEPER RETAINING WALL DETAIL
SCALE N.T.S.

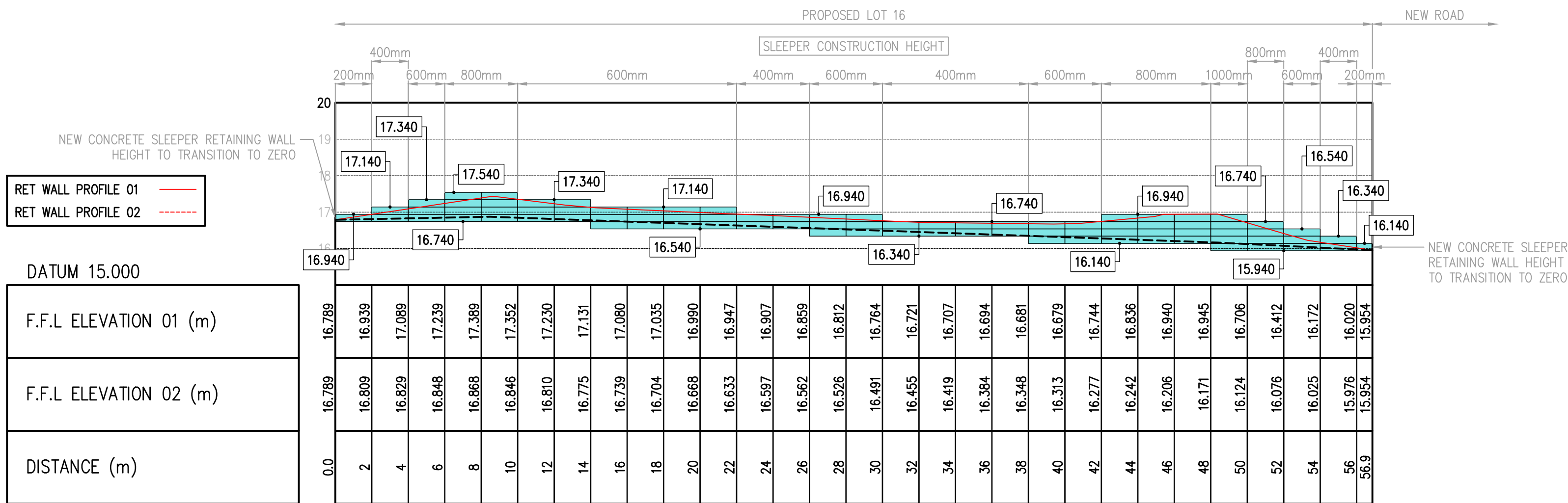
- RETAINING WALL NOTES**
- ALL RETAINING WALLS TO BE CONSTRUCTED IN ACCORDANCE WITH THE RELEVANT BRISBANE CITY COUNCIL PLANNING SCHEME CODES AND AS 4678-2002 'EARTH RETAINING STRUCTURES' GUIDELINES.
 - ALL RETAINING WALLS INCLUDING THE FOOTINGS, MUST BE LOCATED WHOLLY WITHIN THE PROPERTY BOUNDARIES OF THE SITE WHERE WORKS ARE OCCURRING.
 - RUNOFF FROM SURFACE DRAINS AND SUBSOIL DRAINAGE ASSOCIATED WITH THE RETAINING WALLS MUST BE COLLECTED AND CONNECTED TO A LAWFUL POINT OF DISCHARGE (LPD) WHERE POSSIBLE. IF NO LPD IS AVAILABLE THE SURFACE DRAINS AND SUB-SOIL DRAINAGE MUST BE DESIGNED, INSTALLED AND DISCHARGED TO ENSURE THERE IS NO PONDING, NUISANCE OR CONCENTRATION OF STORMWATER DISCHARGE TO ADJACENT PROPERTIES.
 - RETAINING WALLS TO STABILISE EXCAVATION MUST BE SET BACK FROM PROPERTY BOUNDARIES TO ACCOMMODATE SUBSOIL DRAINAGE WITHOUT ENCROACHMENT INTO THE NEIGHBOURING PROPERTY. THIS SET BACK MAY VARY DEPENDING ON THE HEIGHT, STRUCTURE AND DESIGN OF THE RETAINING WALL, SURCHARGE LOADINGS FROM NEIGHBOURING PROPERTIES, AND TO PROVIDE A SURFACE DRAIN ALONG THE TOP OF THE RET. WALL.

- RETAINING WALL NOTES (CONTINUED)**
- FOR ALL RETAINING WALLS, OBTAIN CERTIFICATION FROM A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND THAT THE DESIGN AND CONSTRUCTION OF THE RETAINING WALLS AND ANCILLARY DRAINAGE ARE IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
 - FOR RETAINING WALLS IN EXCESS OF 1.0m IN HEIGHT:
 - WALLS MUST BE VERTICALLY AND HORIZONTALLY TIED BY A RATIO OF 1:1 UNLESS AN ALTERNATIVE HAS BEEN APPROVED BY DEVELOPMENT SERVICES.
 - WALLS FACING ONTO COUNCIL PROPERTY (INCLUDING THE ROAD RESERVE AND PARKLAND) MUST NOT BE CONSTRUCTED FROM TIMBER.
 - ENSURE THE INSPECTION OF THE RETAINING STRUCTURES BY A REGISTERED PROFESSIONAL ENGINEER QUEENSLAND AT THE FOLLOWING STAGES:
 - 7.1. FOOTING STAGE (INCLUDING EXCAVATION AND REINFORCEMENT)
 - 7.2. AT THE TIME OF INSTALLING DRAINAGE BEHIND THE WALL (INCLUDING GEO-FABRIC, BACKFILL AND PERFORATED PIPE INCLUDING CONNECTION OF PERFORATED PIPE TO THE STORMWATER DRAINAGE SYSTEM).

- RETAINING WALL NOTES (CONTINUED)**
- PROVIDE TEMPORARY SAFETY FENCING TO ALL EARTH RETAINING WALLS ON ALLOTMENT BOUNDARIES OVER 1.0m IN HEIGHT AND WHERE BULK EARTHWORKS HAS BEEN UNDERTAKEN.
 - CONSTRUCTED RETAINING WALLS MUST NOT CAUSE ANY ADVERSE EFFECTS ON THE STABILITY AND INTEGRITY OF THE NEIGHBOURING BUILDINGS, PROPERTIES, UTILITY SERVICES AND INFRASTRUCTURE.
 - DO NOT CONSTRUCT RETAINING WALLS ON PROPOSED PARKLAND, EXISTING OR PROPOSED ROAD RESERVE, UNLESS OTHERWISE APPROVED BY COUNCIL IN WRITING.

DRAFTING AND RPEQ CERTIFICATION		RPEQ CERTIFICATION		REV No.		DATE		DESCRIPTION		DRAWN		RPEQ		RPEQ No.		INITIALS		DATE		PROJECT		DRAWING STATUS	
		DATE 21/09/2026 SIGNED 		A		23/04/26		ISSUED FOR APPROVAL		S.V.		-		-		DRAWN		S.V.		21/09/26		489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173	
		NAME OF SIGNATORY ISAAC SCOT		B		16/09/26		ISSUED FOR APPROVAL		S.V.		-		-		CHECKED		I.S.		21/09/26		SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	
		RPEQ No. 16797		C		21/09/26		ISSUED FOR APPROVAL		S.V.		-		-		APPROVED		I.S.		21/09/26		RETAINING WALL LAYOUT, NOTES AND DETAILS	
																SIZE A1		SCALE AS SHOWN				3582-01-RW001	
																						REVISION C	
																						SHEET 01 OF 02	

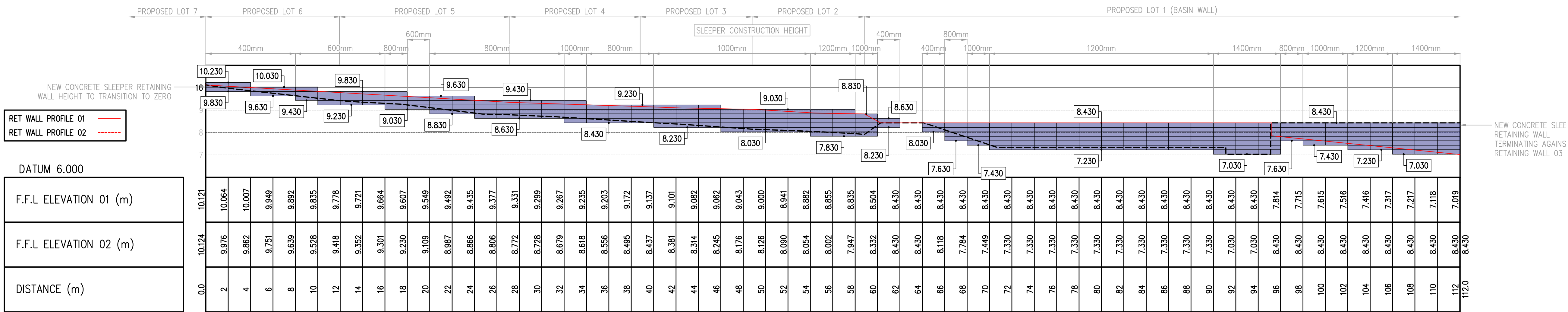
BCC DS
RECEIVED
21/09/2026
APPLICATION REF
A007057635



[TOTAL AREA = 66m²]

RETAINING WALL 01 FROM 0.0m TO 56.9m

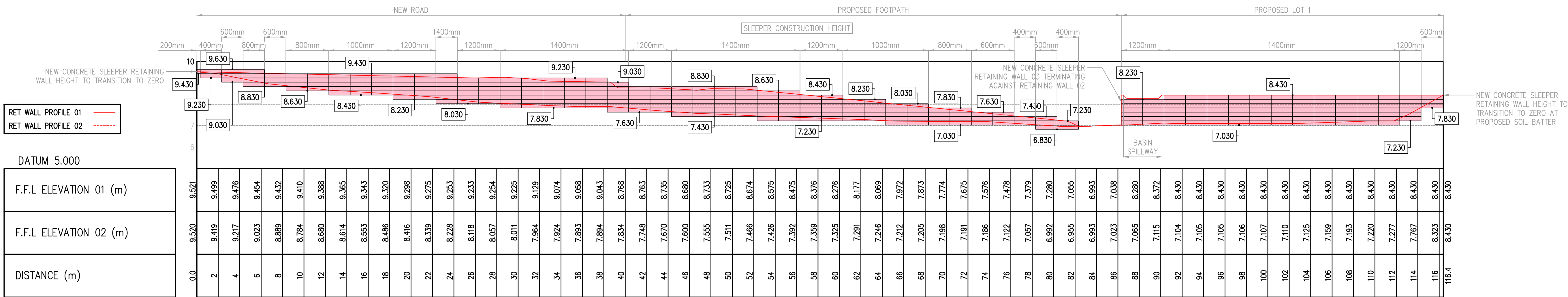
HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100



[TOTAL AREA = 209m²]

RETAINING WALL 02 FROM 0.0m TO 112.0m

HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100



[TOTAL AREA = 251m²]

RETAINING WALL 03 FROM 0.0m TO 116.4m

HORIZONTAL SCALE 1:200 VERTICAL SCALE 1:100

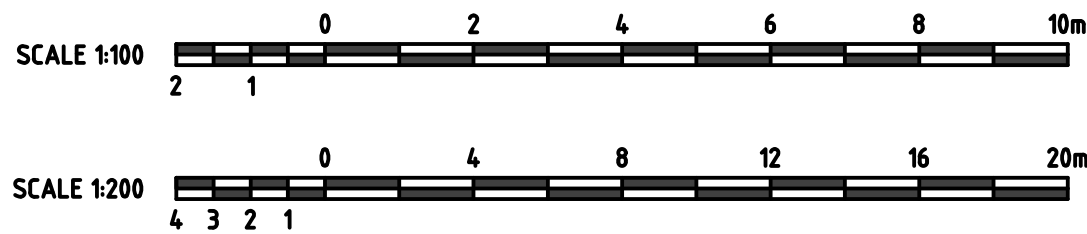
REFER TO DRAWING 3582-01-RW001 FOR RETAINING WALL LAYOUT, NOTES AND DETAILS

REFER TO DRAWING 3582-01-EW001 FOR EARTHWORKS LAYOUT - PART 1 AND NOTES

REFER TO DRAWING 3582-01-EW002 FOR EARTHWORKS LAYOUT - PART 2 AND NOTES

REFER TO DRAWING 3582-01-EW003 FOR EARTHWORKS SECTIONS - PART 1

REFER TO DRAWING 3582-01-EW004 FOR EARTHWORKS SECTIONS - PART 2



DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 16/09/2026 SIGNED *Isaac Scott*

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.	16/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S.	16/09/26
						APPROVED	I.S.	16/09/26
						SIZE	SCALE	
						A1	AS SHOWN	

CLIENT	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173
CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST
DRAWING	RETAINING WALL ELEVATIONS

DRAWING STATUS	TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
DRAWING No.	3582-01-RW002	REVISION	B	SHEET	02
			02	02	02

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT

LOT 5 RP 32978

COUNCIL FILE REF: A006705978

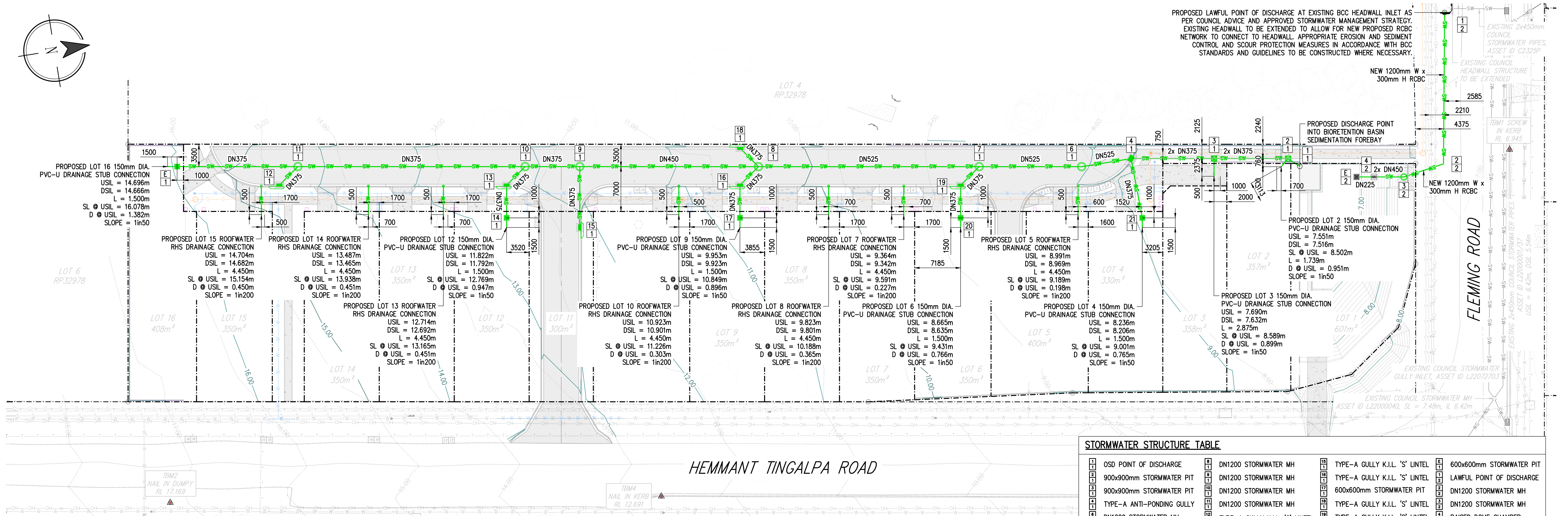
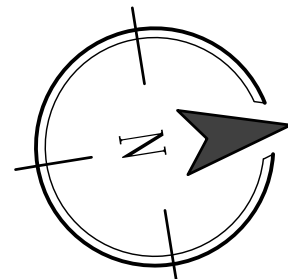
EXISTING SERVICES NOTE

THIS DESIGN HAS BEEN PREPARED BASED ON THE SERVICE AUTHORITY AS-CONSTRUCTED AND DETAIL AND CONTOUR SURVEY INFORMATION. POT HOLING WAS DONE TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DESIGN ON SITE.

NOT FOR CONSTRUCTION



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.



HEMMANT TINGALPA ROAD

STORMWATER DRAINAGE LAYOUT

SCALE 1:300

STORMWATER STRUCTURE TABLE

1	OSD POINT OF DISCHARGE	4	DN1200 STORMWATER MH	18	TYPE-A GULLY K.I.L. 'S' LINTEL	6	600x600mm STORMWATER PIT
2	900x900mm STORMWATER PIT	5	DN1200 STORMWATER MH	19	TYPE-A GULLY K.I.L. 'S' LINTEL	7	LAWFUL POINT OF DISCHARGE
3	900x900mm STORMWATER PIT	6	DN1200 STORMWATER MH	20	TYPE-A GULLY K.I.L. 'S' LINTEL	8	DN1200 STORMWATER MH
4	TYPE-A ANTI-PONDING GULLY	7	DN1200 STORMWATER MH	21	TYPE-A GULLY K.I.L. 'S' LINTEL	9	DN1200 STORMWATER MH
5	DN1200 STORMWATER MH	8	TYPE-A GULLY K.I.L. 'S' LINTEL	22	TYPE-A GULLY K.I.L. 'S' LINTEL	10	RAISED DOME CHAMBER
6	DN1200 STORMWATER MH	9	TYPE-A GULLY K.I.L. 'S' LINTEL	23	600x600mm STORMWATER PIT	11	TYPE-1 RAISED GRATE
7		10	600x600mm STORMWATER PIT	24	600x600mm STORMWATER PIT	12	

LEGEND

	NEW STORMWATER PIPE AND MANHOLE
	NEW STORMWATER KERB ADAPTOR
	NEW STORMWATER PIT
	NEW STORMWATER INLET PIT
	NEW STORMWATER GULLY PIT
	EXISTING STORMWATER PIPE AND CHAMBER
	EXISTING STORMWATER INLET PIT
	EXISTING STORMWATER HEADWALL
	NEW SEWER PIPE AND MANHOLE
	NEW SEWER MAINTENANCE SHAFT
	NEW SEWER PROPERTY CONNECTION
	NEW SEWER INSPECTION SLAB
	EXISTING SEWER PIPE AND MANHOLE
	NEW WATER PIPE
	NEW WATER VALVE
	NEW WATER HYDRANT
	NEW WATER METER - SINGLE DOMESTIC
	EXISTING WATER PIPE
	EXISTING WATER VALVE
	EXISTING WATER HYDRANT
	EXISTING TELECOM SERVICE AND PIT
	EXISTING GAS LINE

LEGEND

	EXISTING O/H ELECTRICITY AND POLE
	EXISTING SERVICES - TO BE ABANDONED
	PROPERTY BOUNDARY
	EXISTING FENCE LINE
	FINAL SURFACE LEVEL CONTOURS
	EXISTING GROUND LEVEL CONTOURS
	SURVEY REFERENCE MARK
	NEW CONCRETE
	EXISTING CONCRETE
	NEW ASPHALT
	NEW TURFED AREA
	NEW RETAINING WALL



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

STORMWATER DRAINAGE NOTES

1. GENERAL

- 1.1. ALL STORMWATER DRAINAGE EXCAVATION AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE AS3500 PLUMBING AND DRAINAGE CODE, AS WELL AS THE RELEVANT LOCAL AUTHORITY SPECIFICATIONS AND DETAILS.
- 1.2. ALL LEVELS TO AHD.
- 1.3. ALL DIMENSIONS ARE IN MILLIMETERS U.N.O.
- 1.4. ALL DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE PRIOR TO CONSTRUCTION COMMENCING.
- 1.5. NO DIMENSIONS MAY BE OBTAINED BY SCALING DRAWINGS.
- 1.6. ALL PVC STORMWATER PIPES TO BE PVC-U CLASS "SN8" U.N.O.
- 1.7. ALL RCP AND FRC PIPES TO BE MINIMUM CLASS "4" U.N.O.
- 1.8. ALL MATERIALS SHALL MEET THE RELEVANT AS1254 AND AS1273 REQUIREMENTS AND SPECIFICATIONS.
- 1.9. STORMWATER PIPES TO BE INSTALLED AT A MINIMUM GRADE OF 1.0% (1:100 SLOPE) U.N.O.
- 1.10. ROOFWATER RHS DRAINS ACROSS VERGE TO BE LAID WITH THE MAX. AVAILABLE COVER AND A MINIMUM SLOPE OF 1in200.
- 1.11. ALL ROOFWATER DRAINAGE RHS TO BE 150x100x4mm CONNECTED TO KERB ADAPTOR OUTLET.
- 1.12. FULL HEIGHT KERB ADAPTORS TO MATCH KERB AND CHANNEL PROFILES AS PER BSD-8114.
- 1.13. ALL TYPE-A GULLY PITS TO BE TYPE 'C' (SLIMLINE TYPE) KERB-IN-LINE ON-GRADE INLETS AS PER BSD-8057.
- 1.14. ALL TYPE-A GULLY PITS TO HAVE 2.4m LONG 'S' (SMALL) CONCRETE LINTEL AS PER BSD-8055.
- 1.15. ALL TYPE-A ANTI-PONDING SAG INLETS AS PER BSD-8056.
- 1.16. CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO STORMWATER CONSTRUCTION. ANY DEVIATIONS MUST BE REFERRED TO THE SUPERINTENDENT FOR ANY NECESSARY ALTERATIONS PRIOR TO PIPEWORK CONSTRUCTION COMMENCING.

STORMWATER DRAINAGE NOTES (CONTINUED)

- 1.17. EXISTING SERVICES POSITIONS, SIZES AND DEPTH/INVERT LEVELS TO BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND CONFIRMED WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- 1.18. CONSTRUCTION OF NEW SERVICES TO BE DONE STARTING AT THE CONNECTION POINT TO EXISTING SERVICES.
- 1.19. ADEQUATE BRIDGING PROTECTION TO BE PROVIDED WHERE PIPES ARE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL LOADINGS. ALL BRIDGING IS TO BE DESIGNED BY A RPEQ.
- 1.20. PIT STRUCTURE BENCHING TO HAVE SMOOTH, FINISHED SURFACE.
- 1.21. PIPES MAY NOT PROJECT INSIDE THE PIT SHAFT.
- 1.22. THE CONTRACTOR MUST NOTIFY ALL RELEVANT AUTHORITIES AND PAY ALL FEES NECESSARY PRIOR TO CONSTRUCTION COMMENCING.
- 1.23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES AND FOR THE REPAIR OF ANY SERVICES DAMAGED AS A RESULT OF THE WORKS.
- 1.24. FOOTPATHS AND PRIVATE PROPERTY SHALL BE REINSTATED TO THEIR ORIGINAL CONDITION AFTER COMPLETION OF WORKS IN THE AREA.
- 1.20. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE WORKPLACE HEALTH AND SAFETY ACT 1995. THE CONTRACTOR MUST ENSURE THE REQUIREMENTS OF ALL SPECIFICATIONS WITH REGARDS TO 'NOTIFICATION IN RELATION TO A NOTIFIABLE PROJECT ARE FULFILLED'.
- 1.21. ALL STORMWATER PIPES REQUIRING COUNCIL APPROVAL MUST BE SURVEYED PRIOR TO BACKFILLING. AN MGA SURVEY FROM A REGISTERED SURVEYOR MUST BE SUBMITTED FOR REVIEW AND APPROVAL. ALL TRENCHES THAT HAVE BEEN BACKFILLED PRIOR TO THE SURVEY MUST BE EXCAVATED AND THE PIPE EXPOSED FOR THE SURVEY.

STORMWATER DRAINAGE NOTES (CONTINUED)

2. **LAWFUL POINT OF DISCHARGE (LPD)**
 - 2.1. THE LAWFUL POINT OF DISCHARGE FOR THE DEVELOPMENT IS THE EXISTING COUNCIL HEADWALL IN FLEMING RD.
 - 2.2. ALL MINOR STORM FLOWS THAT FALL OR PASS ONTO THE SITE MUST DRAIN TO THE LAWFUL POINT OF DISCHARGE IN ACCORDANCE WITH THE QUEENSLAND URBAN DRAINAGE MANUAL (QUDM).
3. **STORMWATER DESIGN**
 - 3.1. STORMWATER DESIGN MUST HAVE A MINIMUM FREEBOARD DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE QUEENSLAND URBAN DRAINAGE MANUAL (QUDM) FOR OVERLAND FLOW PATHS AND PROVIDE AN UNDERGROUND NETWORK DESIGNED TO CATER FOR THE MINOR STORM OF 2 YEAR ARI.
4. **OVERLAND FLOW**
 - 4.1. THE MINIMUM BUILDING PAS LEVEL FOR LOT 2 IS TO BE 8.673m AHD, OR BEING 200mm ABOVE ADJACENT DRIVEWAY LEVELS IN EMT-A, AND A MIN 150mm ABOVE ADJACENT STORMWATER BASIN EMBANKMENT LEVELS.
 - 4.2. THE MINIMUM BUILDING PAD LEVEL FOR LOT 3 IS TO BE 8.727m AHD, OR BEING 200mm ABOVE ADJACENT DRIVEWAY LEVELS IN EMT-B.
5. **DISTURBED AREAS**

ALL DISTURBED VERGE AREAS TO BE A MINIMUM OF 75mm TOPSOILED AND TURFED UPON COMPLETION OF WORKS. RESTORATION WORKS PROFILE TO BE INTO EXISTING.
6. **ADAC AS-CONSTRUCTED SUBMISSION**

ADAC XML IS REQUIRED FOR A STORMWATER DEVELOPMENT IF CONSTRUCTED BY A PRIVATE CONTRACTOR. IT IS A REQUIREMENT THAT ALL AS-CON PACKAGES MUST COMPLY WITH BCC REQUIREMENTS.

STORMWATER INSPECTION NOTES

- MAJOR STORMWATER INSPECTIONS:**
1. **MANDATORY HOLDING POINTS FOR WORKS**
 - PRESTART MEETING
 - PIPE LAID AND BEDDED IN TRENCH PRIOR TO BACKFILL
 - AS-CONSTRUCTED SURVEY OF WORKS PRIOR TO BACKFILL
 - ON MAINTENANCE
 2. THE CONTRACTOR MUST PROVIDE THE CERTIFYING ENGINEER THE FOLLOWING PRIOR TO THE RELEASE OF AS-CONSTRUCTED CERTIFICATION
 - PIPE LAYER'S ACCREDITATION (DRAINER'S LICENSE)
 - TRENCH BACKFILL COMPACTION TEST RESULTS
 - BEDDING MATERIAL GRADING (10mm DRAINAGE GRAVEL)
 - AS-CONSTRUCTED SURVEY PREPARED BY A LICENSED SURVEYOR
 - CCTV SURVEY (IN DUPLICATE)
 - PHOTOGRAPHIC EVIDENCE AT ALL STAGES OF CONSTRUCTION
 3. SCHEDULING OF TESTING AND WORKS TO ALLOW FOLLOWING OF THIS PROCESS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
 4. IF THE AS CONSTRUCTED SURVEY DOES NOT FORM PART OF THE CONTRACTOR'S SCOPE OF WORKS, THE CONTRACTOR MUST COORDINATE WORKS WITH THE NOMINATED SURVEYOR. CONTRACTOR TO GIVE THE SURVEYOR AS MUCH NOTICE AS POSSIBLE TO PROGRAM SURVEY WORKS.

NOT FOR CONSTRUCTION

EXISTING SERVICES NOTE

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REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL - ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-SW002 FOR STORMWATER LONGITUDINAL SECTIONS - PART 1
REFER TO DRAWING 3582-01-SW003 FOR STORMWATER LONGITUDINAL SECTIONS - PART 2
REFER TO DRAWING 3582-01-SW005 FOR BIORETENTION LAYOUT AND DETAILS
REFER TO DRAWING 3582-01-SW006 FOR BIORETENTION BASIN SECTIONS AND DETAILS
REFER TO DRAWING 3582-01-SW007 FOR HEADWALL LAYOUTS AND DETAILS

SCALE 1:300
4 3 2 1

DRAFTING AND RPEQ CERTIFICATION



RPEQ CERTIFICATION

DATE 21/09/2026 SIGNED

NAME OF SIGNATORY ISAAC SCOT

RPEQ No. 16797

REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE
A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	21/09/26
B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	21/09/26
C	21/09/26	ISSUED FOR APPROVAL	S.V.	-	-	APPROVED	21/09/26

INITIALS	DATE	PROJECT	CLIENT	DRAWING
S.V.	21/09/26	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	STORMWATER DRAINAGE LAYOUT AND NOTES

DRAWING STATUS	TENDER	INFORMATION	APPROVAL	CONSTRUCTION	AS-CONSTRUCTED
DRAWING No.	3582-01-SW001	REVISION	C	SHEET	01 02 03 04 05 06

STRUCTURE NAME
STRUCTURE DESCRIPTION

EXISTING GROUND LEVEL ---
FINISHED FINAL LEVEL ---
HYDRAULIC GRADE LINE ---

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:125

DATUM 6.000 m M.S.L.

PIPE NOMINAL DIAMETER (DN) TYPE, CLASS
GRADE (1 IN X)
LENGTH (m)
DEPTH TO INVERT
PIPE INVERT LEVEL
FINISHED SURFACE LEVEL (FSL)
EXISTING SURFACE LEVEL (ESL)
CHAINAGE (CH)
HGL ELEVATION
HYDRAULICS
DESIGN Q(m ³ /s) V(m/s)
MAX. Q(m ³ /s) V(m/s)

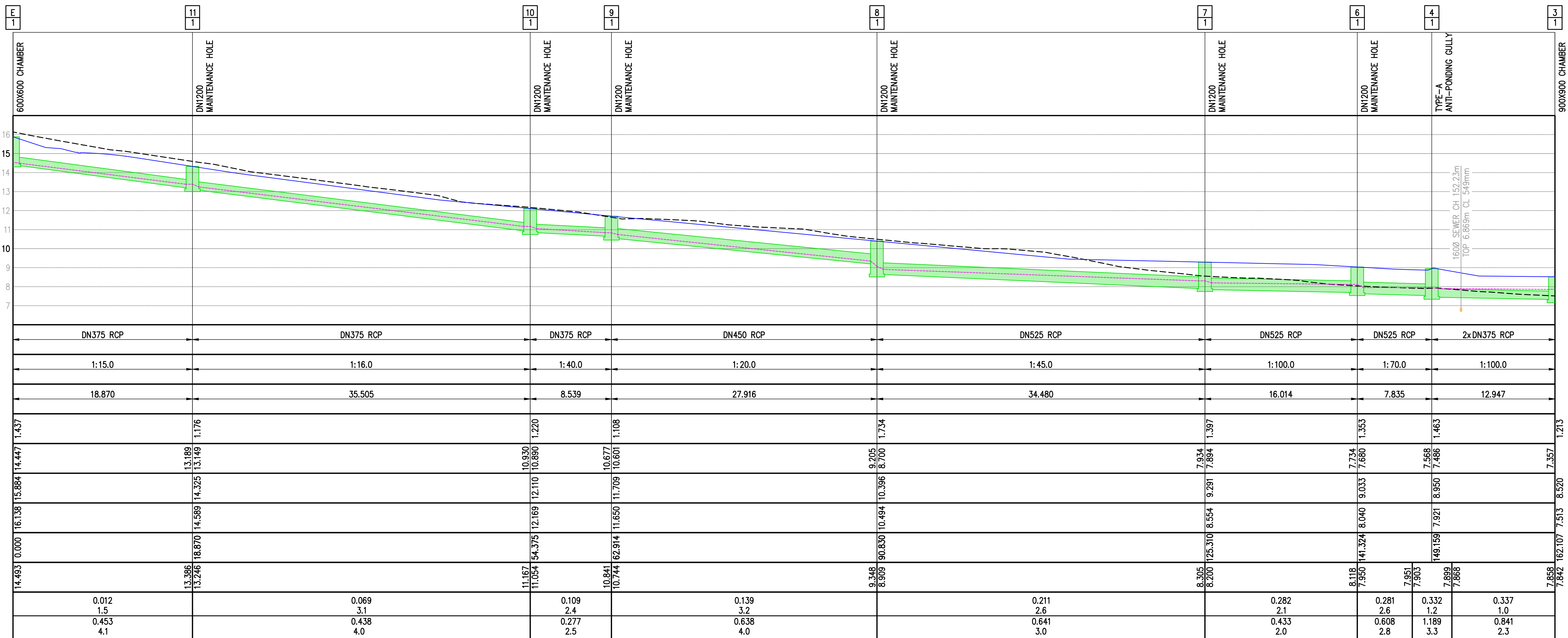
STRUCTURE NAME
STRUCTURE DESCRIPTION

EXISTING GROUND LEVEL ---
FINISHED FINAL LEVEL ---
HYDRAULIC GRADE LINE ---

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:125

DATUM 10.000 m M.S.L.

PIPE NOMINAL DIAMETER (DN) TYPE, CLASS
GRADE (1 IN X)
LENGTH (m)
DEPTH TO INVERT
PIPE INVERT LEVEL
FINISHED SURFACE LEVEL (FSL)
EXISTING SURFACE LEVEL (ESL)
CHAINAGE (CH)
HGL ELEVATION
HYDRAULICS
DESIGN Q(m ³ /s) V(m/s)
MAX. Q(m ³ /s) V(m/s)



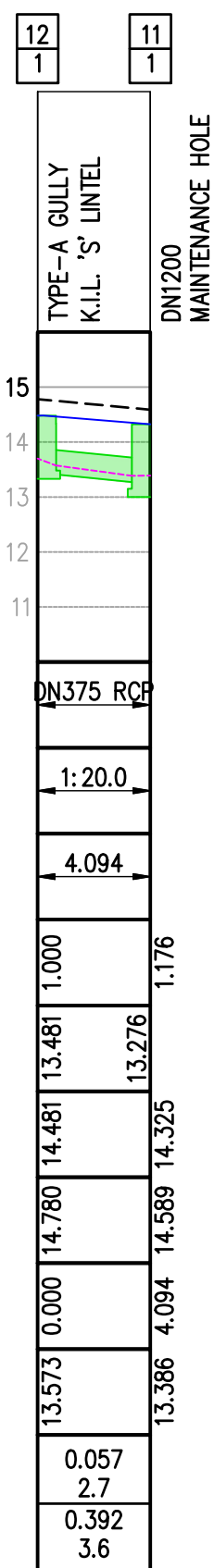
STRUCTURE NAME
STRUCTURE DESCRIPTION

EXISTING GROUND LEVEL ---
FINISHED FINAL LEVEL ---
HYDRAULIC GRADE LINE ---

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:125

DATUM 10.000 m M.S.L.

PIPE NOMINAL DIAMETER (DN) TYPE, CLASS
GRADE (1 IN X)
LENGTH (m)
DEPTH TO INVERT
PIPE INVERT LEVEL
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DESIGN Q(m ³ /s) V(m/s)
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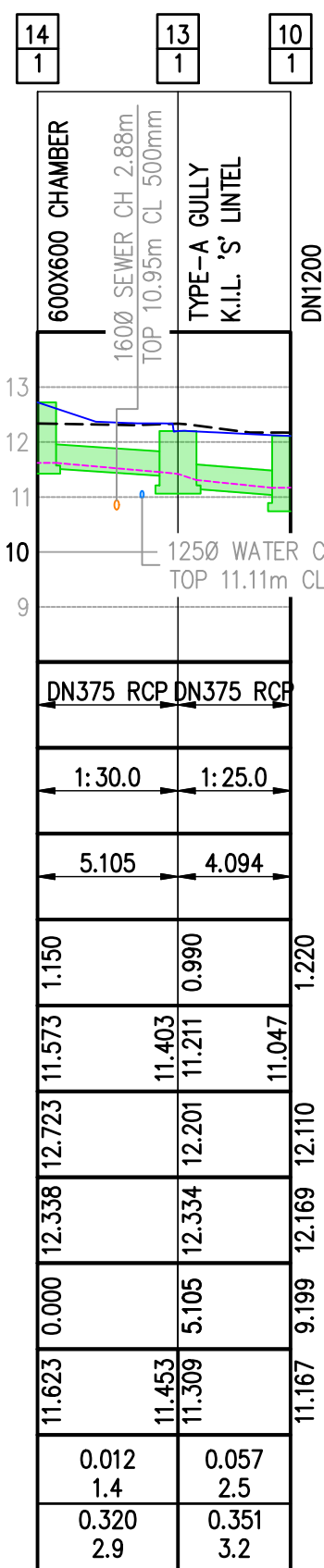
STRUCTURE NAME
STRUCTURE DESCRIPTION

EXISTING GROUND LEVEL ---
FINISHED FINAL LEVEL ---
HYDRAULIC GRADE LINE ---

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:125

DATUM 8.000 m M.S.L.

PIPE NOMINAL DIAMETER (DN) TYPE, CLASS
GRADE (1 IN X)
LENGTH (m)
DEPTH TO INVERT
PIPE INVERT LEVEL
FINISHED SURFACE LEVEL (FSL)
EXISTING SURFACE LEVEL (ESL)
CHAINAGE (CH)
HGL ELEVATION
HYDRAULICS
DESIGN Q(m ³ /s) V(m/s)
MAX. Q(m ³ /s) V(m/s)



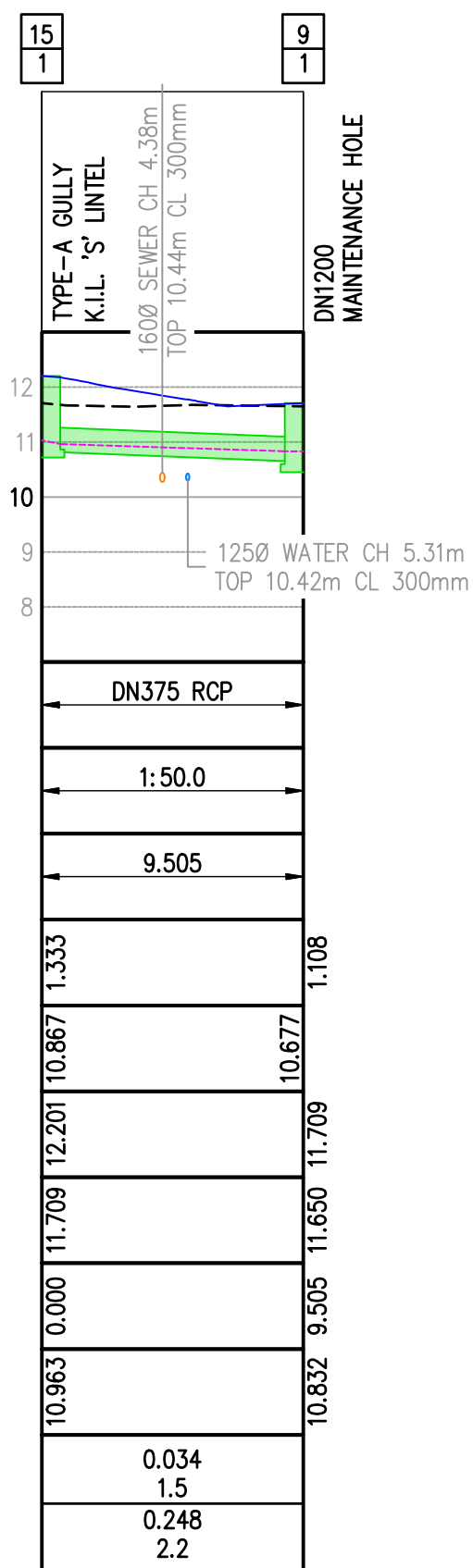
STRUCTURE NAME
STRUCTURE DESCRIPTION

EXISTING GROUND LEVEL ---
FINISHED FINAL LEVEL ---
HYDRAULIC GRADE LINE ---

HORIZONTAL SCALE 1:250
VERTICAL SCALE 1:125

DATUM 7.000 m M.S.L.

PIPE NOMINAL DIAMETER (DN) TYPE, CLASS
GRADE (1 IN X)
LENGTH (m)
DEPTH TO INVERT
PIPE INVERT LEVEL
FINISHED SURFACE LEVEL (FSL)
EXISTING SURFACE LEVEL (ESL)
CHAINAGE (CH)
HGL ELEVATION
HYDRAULICS
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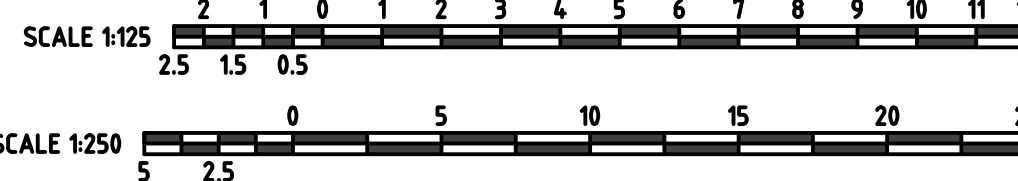
STORMWATER LONGITUDINAL SECTION E|1 to 1|11 (1) – PART 1

NOT FOR CONSTRUCTION



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REFER TO DRAWING 3582-01-SW001 FOR STORMWATER DRAINAGE LAYOUT AND NOTES
REFER TO DRAWING 3582-01-SW003 FOR STORMWATER LONGITUDINAL SECTIONS – PART 2
REFER TO DRAWING 3582-01-SW005 FOR BIORETENTION LAYOUT AND DETAILS
REFER TO DRAWING 3582-01-SW006 FOR BIORETENTION BASIN SECTIONS AND DETAILS
REFER TO DRAWING 3582-01-SW007 FOR HEADWALL LAYOUTS AND DETAILS

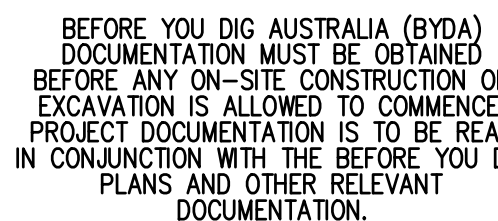


EXISTING SERVICES NOTE
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REAL PROPERTY DESCRIPTION
DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

DRAFTING AND RPEQ CERTIFICATION 	RPEQ CERTIFICATION		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT	DRAWING STATUS      TENDERINFORMATIONAPPROVALCONSTRUCTIONAS-CONSTRUCTED								
	DATE	16/09/2026	SIGNED									489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173	DRAWING No. 3582-01-SW002							
	NAME OF SIGNATORY	ISAAC SCOT		A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.							16/09/26	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	
	RPEQ No.	16797		B	22/06/26	ISSUED FOR APPROVAL – LONGSECTION DATA ADDED	S.V.	-	-	CHECKED	I.S.							16/09/26		
				C	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	APPROVED	I.S.	16/09/26	DRAWING		STORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 1					
									SIZE	SCALE	AS SHOWN									
									A1											

BCC DS
RECEIVED
23/09/2026
APPLICATION REF
A007057635



EXISTING SERVICES NOTE

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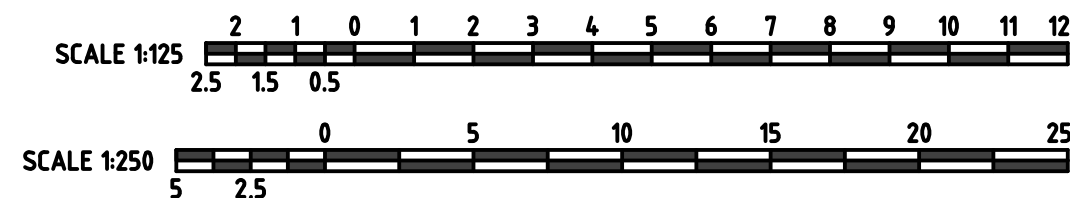
REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PER

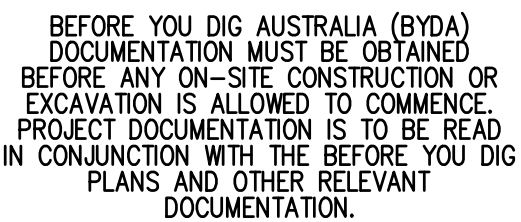
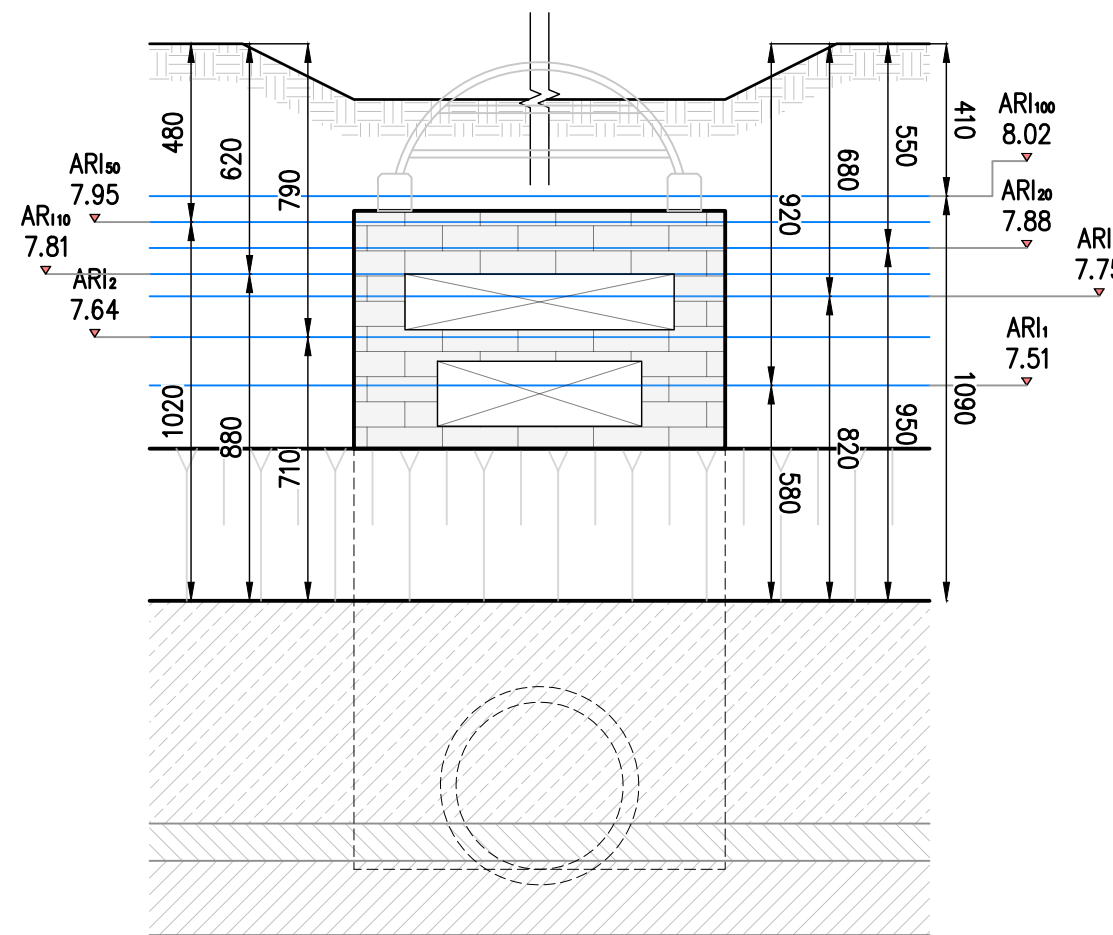
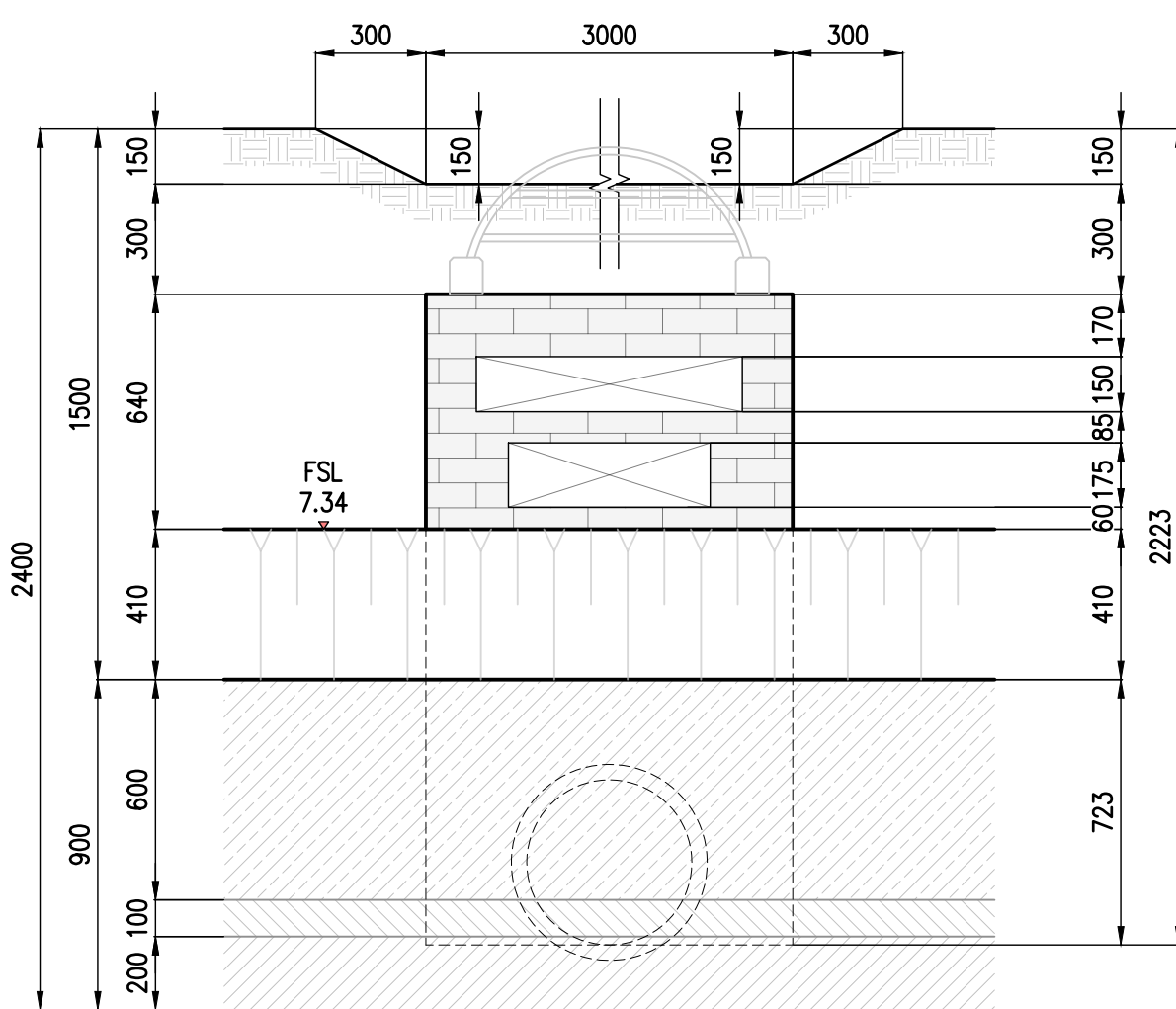
LOT 5 RP 32978

COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-SW001 FOR STORMWATER DRAINAGE LAYOUT AND NOTES
REFER TO DRAWING 3582-01-SW002 FOR STORMWATER LONGITUDINAL SECTIONS - PART
REFER TO DRAWING 3582-01-SW005 FOR BIORETENTION LAYOUT AND DETAILS
REFER TO DRAWING 3582-01-SW006 FOR BIORETENTION BASIN SECTIONS AND DETAILS
REFER TO DRAWING 3582-01-SW007 FOR HEADWALL LAYOUTS AND DETAILS



DRAFTING AND RPEQ CERTIFICATION B BRAVO CONSULT www.bravoconsult.com.au 07 3062 5379	RPEQ CERTIFICATION DATE 16/09/2026 SIGNED  NAME OF SIGNATORY ISAAC SCOTT RPEQ No. 16797		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.		INITIALS	DATE	PROJECT489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173 CLIENTSRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST DRAWINGSTORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 2	DRAWING STATUS TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED DRAWING No.3582–01–SW003 REVISIONC SHEET03 OF06 06				
			A	23/04/26	ISSUED FOR APPROVAL	S.V.	–	–	DRAWN	S.V.	16/09/26						
			B	22/06/26	ISSUED FOR APPROVAL – LONGSECTION DATA ADDED	S.V.	–	–	CHECKED	I.S.	16/09/26						
			C	16/09/26	ISSUED FOR APPROVAL	S.V.	–	–	APPROVED	I.S.	16/09/26						
										SIZE A1	SCALE AS SHOWN						

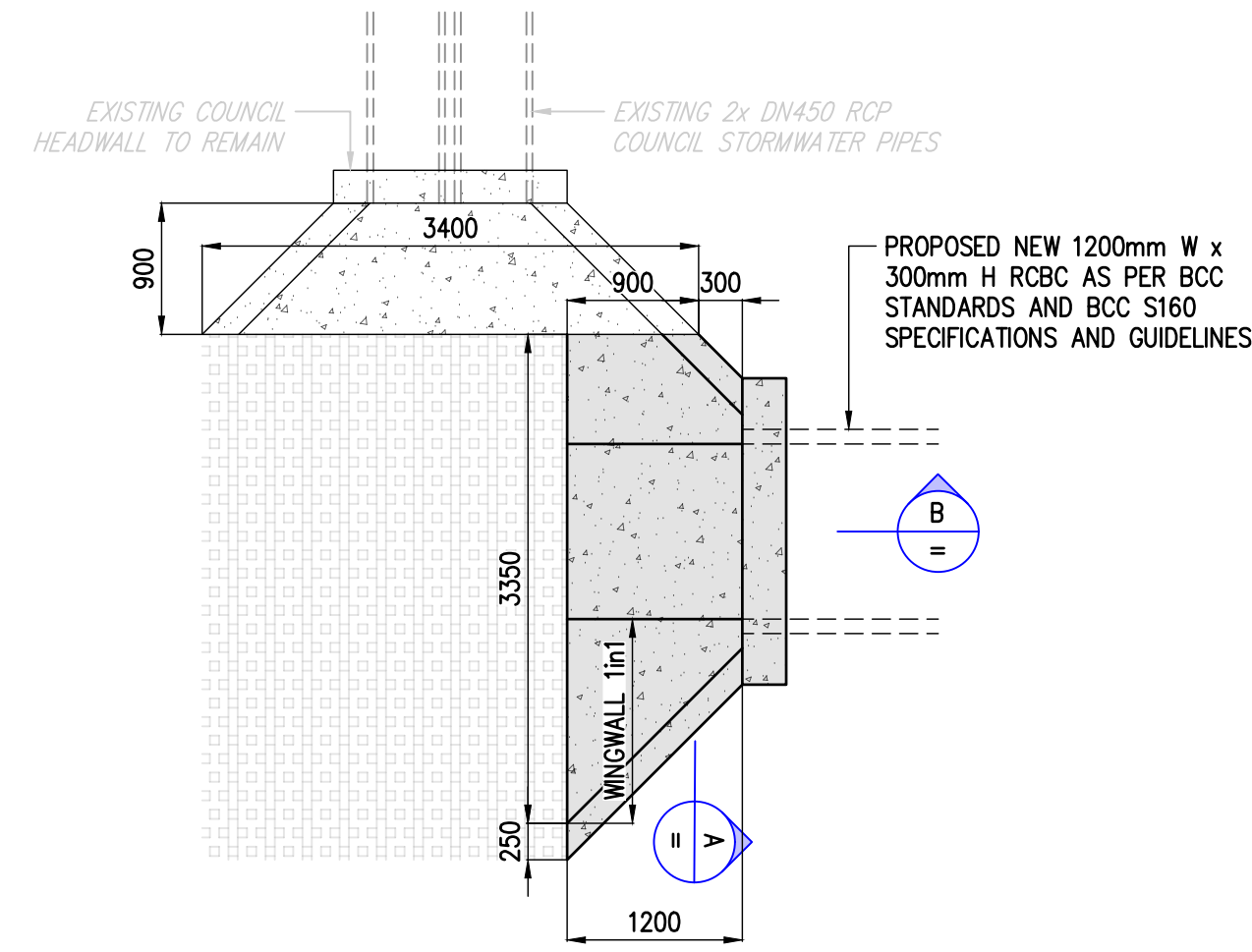
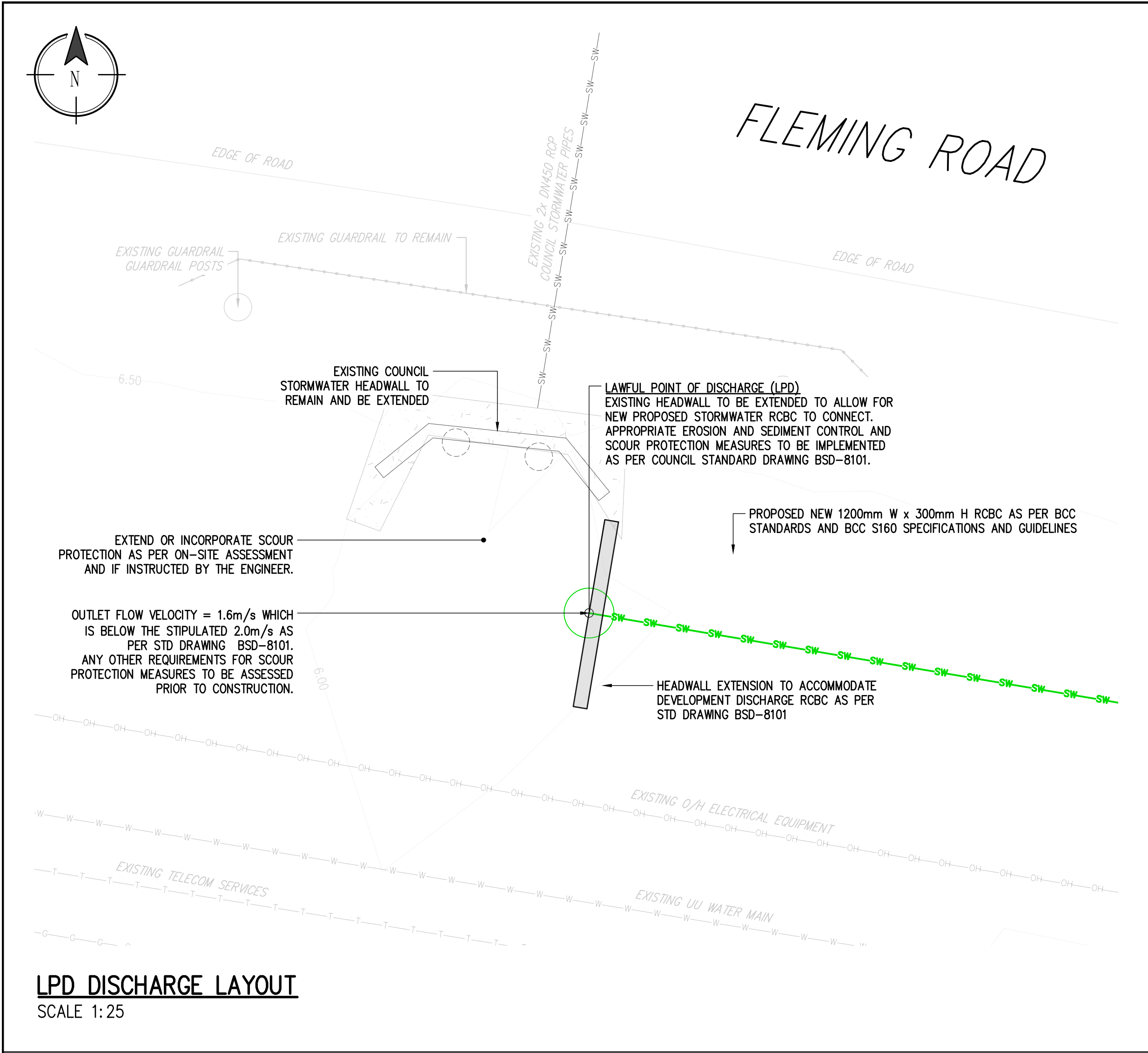


BASIN SECTION C-C 25.00m TO 46.95m
HORIZONTAL SCALE 1:50
VERTICAL SCALE 1:50



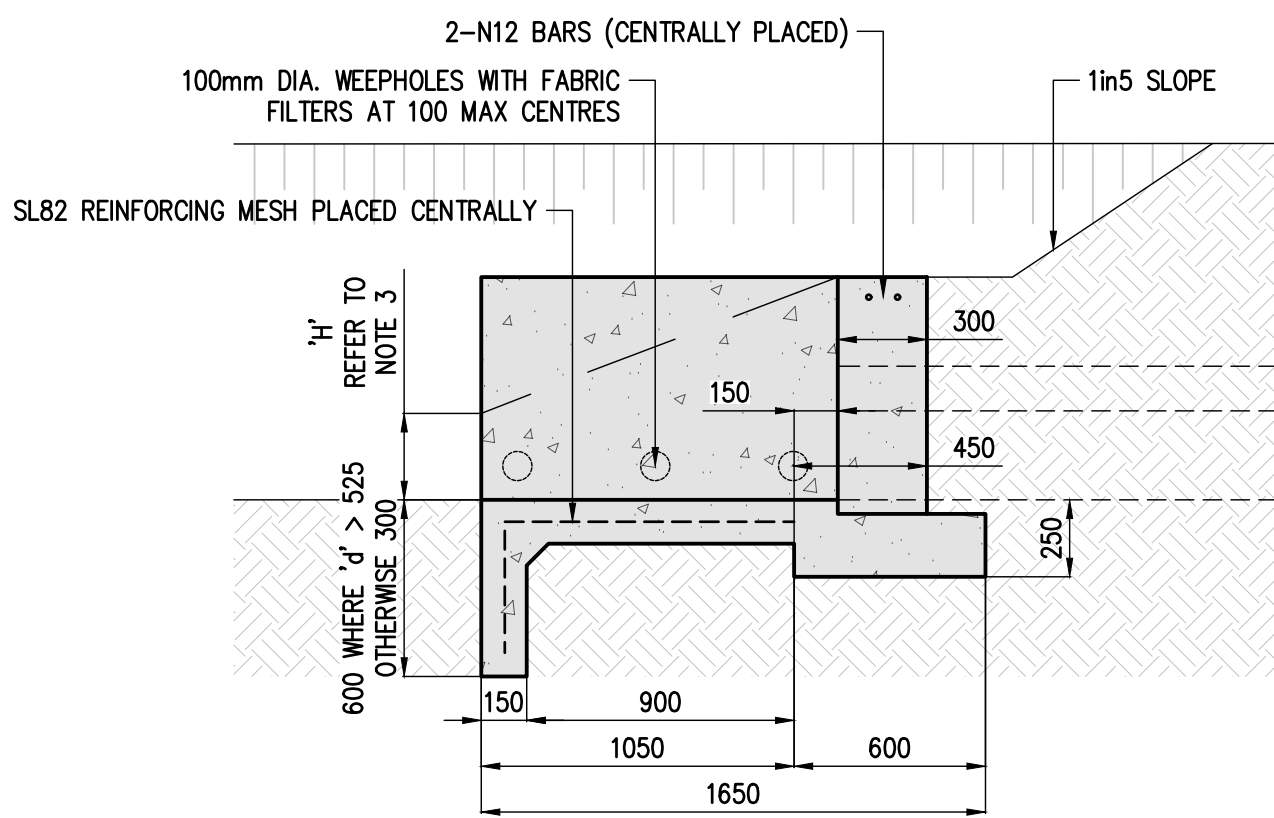
DRAFTING AND RPEQ CERTIFICATION B BRAVO CONSULT www.braviconsult.com.au 07 3062 8319	RPEQ CERTIFICATION DATE 16/09/2026 SIGNED  NAME OF SIGNATORY ISAAC SCOTT RPEQ No. 16797		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.		INITIALS	DATE	PROJECT489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173 CLIENTSRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST DRAWINGBIORETENTION BASIN SECTIONS AND DETAILS	DRAWING STATUS TENDER INFORMATION APPROVAL CONSTRUCTION AS-CONSTRUCTED			
	A	23/04/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.	16/09/26	DRAWING No.3351-SW006 REVISIONB SHEET05 OF06						
	B	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	CHECKED	I.S.	16/09/26							
							APPROVED	I.S.	16/09/26							
							SIZE A1	SCALE AS SHOWN								

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21/09/2026
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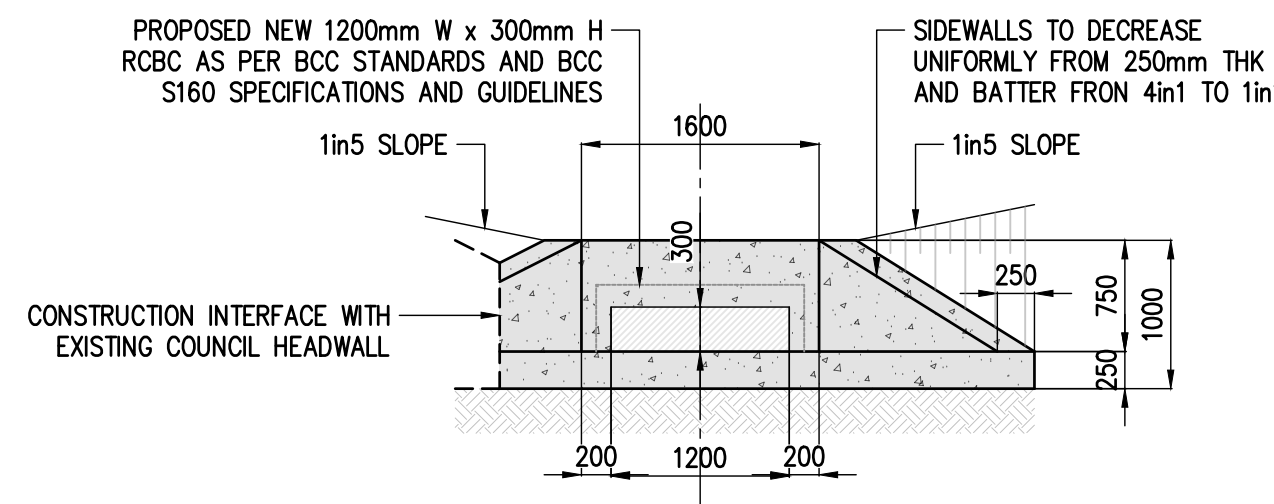
HEADWALL DETAILS – PLAN VIEW

SCALE 1:50



HEADWALL DETAILS – SECTION B

SCALE 1:25



HEADWALL DETAILS – SECTION A

SCALE 1:50

HEADWALL NOTES:

- DESIGN ALLOWABLE BEARING PRESSURE 75 kPa. WHERE THIS BEARING PRESSURE CANNOT BE OBTAINED, THE SUPERINTENDENT MAY DIRECT THAT A WIDER FOOTING BE USED.
- UNREINFORCED CONCRETE CLASS 20 MPa/20. REINFORCED CONCRETE CLASS 32 MPa/20. CONCRETE COVER TO 50 UNLESS SHOWN OTHERWISE.
- IN TIDAL AREAS WHERE MESH REINFORCEMENT IS SPECIFIED, CONCRETE IS TO BE SULPHATE RESISTANT GRADE S40.
- IN EMBANKMENT SITUATIONS, THE HEIGHT OF THE WING WALL AT THE TOE SHOULD BE REDUCED TO "h" SO THAT THE SLOPE OF THE TOP OF THE WING WALL EQUALS THE ADJACENT EMBANKMENT BATTER. (REFER TO PROJECT DRAWINGS FOR VALUE OF "h").
- SEE PROJECT DRAWINGS FOR THE FOLLOWING:
 - NUMBER AND DIAMETER OF PIPES, SKEW ANGLES OF PIPES, IF APPLICABLE; INVERT LEVELS OF PIPES;
 - HEIGHT OF WING WALL "h" AT TOE IF APPLICABLE.
- FOR QUANTITIES REFER BSD-8104.
- SCOUR PROTECTION IS GENERALLY REQUIRED DOWNSTREAM OF THE APRON UNDER ANY ONE OF THE FOLLOWING CONDITIONS:
 - AVERAGE OUTLET VELOCITY EXCEEDS THE NON-EROSIVE VELOCITY.
 - AVERAGE OUTLET VELOCITY EXCEEDS 2m/s.
 - OUTLET JET IS EXPECTED TO STRIKE AN UNPROTECTED CHANNEL BANK WITHIN A DISTANCE OF 10 TIMES THE PIPE DIAMETER.
- BED SCOUR MAY BE CONTROLLED BY THE FOLLOWING METHODS:
 - REDUCING THE OUTLET VELOCITY BY INSTALLING AN EXPANSION CHAMBER.
 - INSTALLING AN ENERGY DISSIPATER.
 - ARMOURING THE BED WITH ROCK, USUALLY OVER A MAXIMUM DISTANCE OF 8 TIMES THE PIPE DIAMETER.
- PREFERRED POSITIONING OF STORMWATER PIPE OUTLET:
 - SETBACK FOR MORE THAN A DISTANCE OF 3 TIMES THE BANK HEIGHT MEASURED FROM THE TOE OF THE WATERCOURSE BANK.
 - FOR 'NARROW' RECEIVING WATERCOURSE, ANGLE THE OUTLET PIPE IN THE DIRECTION OF THE MAIN FLOW. AN APPROACH ANGLE IN THE RANGE OF 45° TO 60° MEASURED FROM THE BANK IS RECOMMENDED.
 - LIMIT THE MAXIMUM HEIGHT BETWEEN THE OUTLET INVERT AND THE RECEIVING CHANNEL INVERT OR EXPECTED WATER LEVEL TO $0.247/d^{0.5}$ WHERE 'd' IS THE OUTLET PIPE DIAMETER IN METRES.
- WHERE DIRECTED, INSTALL 1200 HIGH FENCE ALONG HEADWALL AND WINGWALLS:
 - FOR 1000-1500 DROP HEIGHT, PROVIDE GALVANISED TUBULAR HANDRAIL IN ACCORDANCE WITH BSD-7001, GALVANISED WELD MESH FENCING IN ACCORDANCE WITH BSD-7002 OR PEDESTRIAN SAFETY FENCING IN ACCORDANCE WITH BSD-7003.
 - FOR >1500 DROP HEIGHT, PROVIDE POWDER COATED STEEL FENCING (HUNTER ROD TOP OR APPROVED EQUIVALENT) INSTALLED USING VANDAL PROOF FIXINGS. DESIGN TO RESIST A MINIMUM STATIC LOAD OF 1.5 kN/m AS PER CLAUSE 3.6 OF AS 1170-2002.
- USE OF EQUIVALENT PRECAST PRODUCTS IS PERMITTED.
- DIMENSIONS IN MILLIMETRES (U.N.O.).

GENERAL NOTES:

- ALL DESIGNS TO BE IN ACCORDANCE WITH BRISBANE CITY COUNCIL STANDARDS, GUIDELINES, AND DETAILS.
- ALL DIMENSIONS TO BE CHECKED ON SITE PRIOR TO CONSTRUCTION.

LEGEND

- EXISTING STORMWATER LINE AND STRUCTURE
- EXISTING WATER LINE AND VALVE
- EXISTING O/H ELECTRICAL SERVICE AND POLE
- PROPERTY BOUNDARY
- EXISTING GROUND LEVEL CONTOURS
- EXISTING CONCRETE
- NEW CONCRETE



BEFORE YOU DIG AUSTRALIA (BYDA) DOCUMENTATION MUST BE OBTAINED BEFORE ANY ON-SITE CONSTRUCTION OR EXCAVATION IS ALLOWED TO COMMENCE. PROJECT DOCUMENTATION IS TO BE READ IN CONJUNCTION WITH THE BEFORE YOU DIG PLANS AND OTHER RELEVANT DOCUMENTATION.

NOT FOR CONSTRUCTION

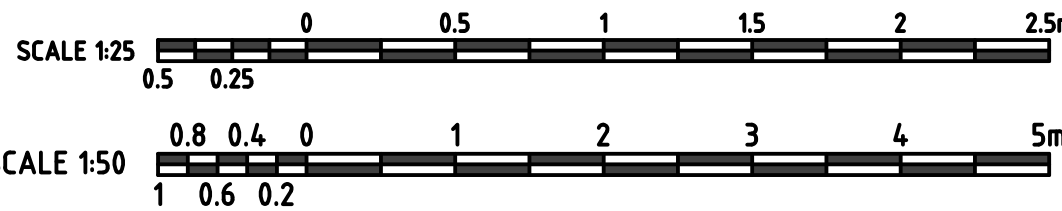
EXISTING SERVICES NOTE

THIS DESIGN HAS BEEN PREPARED BASED ON THE SERVICE AUTHORITY AS-CONSTRUCTED AND DETAIL AND CONTOUR SURVEY INFORMATION. POT HOLING WAS DONE TO VERIFY EXISTING SERVICES LOCATIONS AND DEPTHS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE DESIGN ON SITE.

REAL PROPERTY DESCRIPTION

DEVELOPMENT APPROVAL – ROL DEVELOPMENT PERMIT
LOT 5 RP 32978
COUNCIL FILE REF: A006705978

REFER TO DRAWING 3582-01-SW001 FOR STORMWATER DRAINAGE LAYOUT AND NOTES
REFER TO DRAWING 3582-01-SW002 FOR STORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 1
REFER TO DRAWING 3582-01-SW003 FOR STORMWATER DRAINAGE LONGITUDINAL SECTIONS – PART 2
REFER TO DRAWING 3582-01-SW005 FOR BIORETENTION BASIN LAYOUT AND DETAILS
REFER TO DRAWING 3582-01-SW006 FOR BIORETENTION BASIN SECTIONS AND DETAILS



DRAFTING AND RPEQ CERTIFICATION		RPEQ CERTIFICATION		REV No.	DATE	DESCRIPTION	DRAWN	RPEQ	RPEQ No.	INITIALS	DATE	PROJECT	DRAWING STATUS	
		DATE	16/09/2026	SIGNED		A	16/09/26	ISSUED FOR APPROVAL	S.V.	-	-	DRAWN	S.V.	16/09/26
		NAME OF SIGNATORY	ISAAC SCOT									CHECKED	I.S.	16/09/26
		RPEQ No.	16797									APPROVED	I.S.	16/09/26
												SIZE	SCALE	
												A1	AS SHOWN	
												PROJECT	489 HEMMANT TINGALPA ROAD, TINGALPA, QLD, 4173	
												CLIENT	SRBH SOLUTIONS (PTY) LTD, ATF SRBH SOLUTIONS TRUST	
												DRAWING	HEADWALL LAYOUT AND DETAILS	
												DRAWING No.	3351-SW007	
												REVISION	A	
												SHEET	06	06

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