

PROPOSED RESIDENTIAL DEVELOPMENT

8014 PARK AVE, NIRIMBA
NIRIMBA BY VANTAGE PTY LTD

Project Number: S25-060

AMENDED

By: Jen Davison

Date: 10-Sep-25



PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2025/1640

Date: 25/09/2025



INDEX OF DRAWINGS

GENERAL DRAWINGS

S25-060-G01 COVER SHEET

CIVIL DRAWINGS

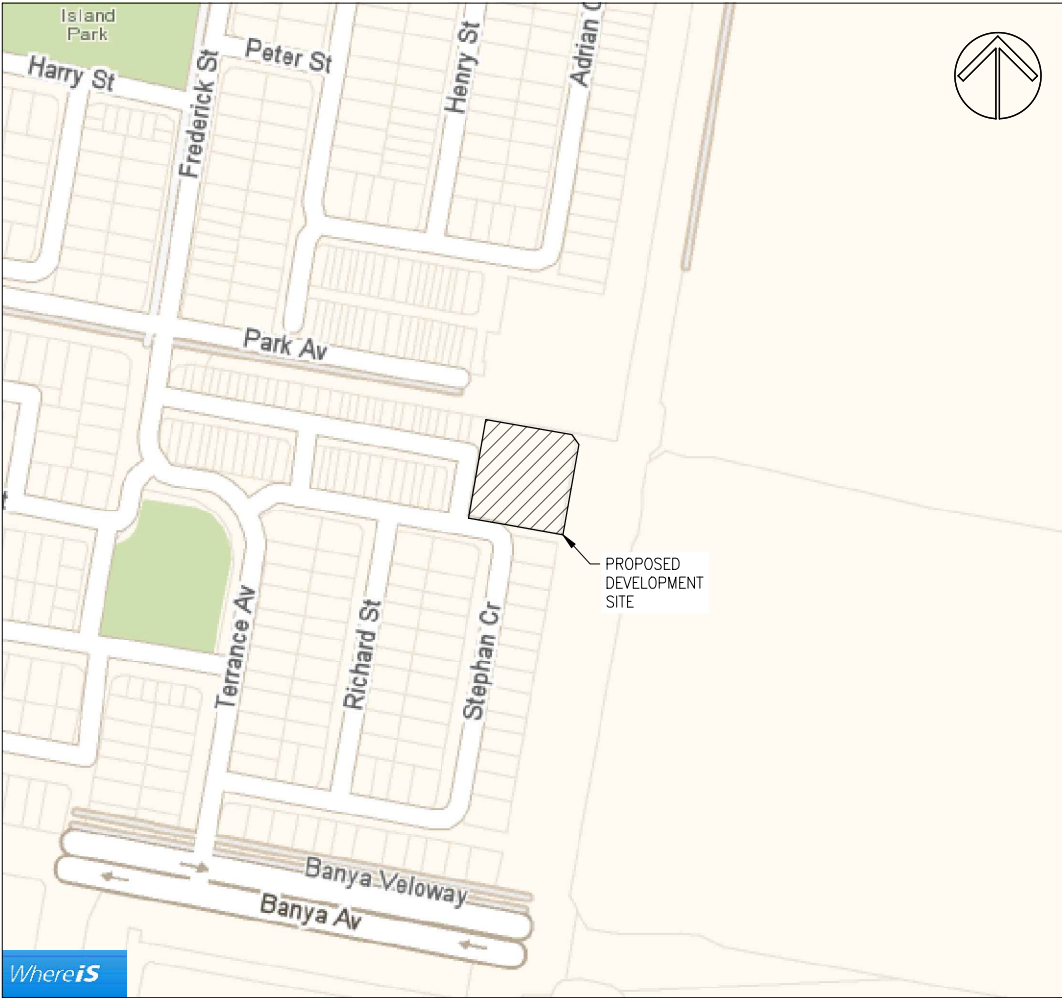
- S25-060-C01 CIVIL NOTES & LEGEND
- S25-060-C02 SITE PLAN
- S25-060-C03 CIVIL WORKS PLAN 01 OF 02
- S25-060-C04 CIVIL WORKS PLAN 02 OF 02
- S25-060-C05 PAVEMENT & JOINTING PLAN
- S25-060-C06 PAVEMENT & JOINTING PLAN DETAILS
- S25-060-C07 SIGNS & LINEMARKING PLAN

EARTHWORKS DRAWINGS

- S25-060-E01 EARTHWORKS SITE PLAN
- S25-060-E02 EARTHWORKS PLAN 01 OF 02
- S25-060-E03 EARTHWORKS PLAN 02 OF 02
- S25-060-E04 EARTHWORKS SECTIONS

EROSION & SEDIMENT CONTROL DRAWINGS

- S25-060-ESC01 EROSION & SEDIMENT CONTROL PLAN
- S25-060-ESC02 EROSION & SEDIMENT CONTROL DETAILS
- S25-060-ESC03 EROSION & SEDIMENT CONTROL NOTES



LOCALITY PLAN
NOT TO SCALE

				DESIGNED J.M.H.						BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6674 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000 DATUM A.H.D. P.M. 200442 R.L. 9.861	PROJECT LOCATION TITLE CLIENT	PROPOSED RESIDENTIAL DEVELOPMENT LOT 4 on SP347407 8014 PARK AVE, NIRIMBA	DRAWING STATUS FOR APPROVAL	
				DRAWN E.B.										DRAWING NUMBER S25-060-G01	
				CHECKED J.M.H.											
				APPROVED J.M.H.											
A	01.05.25	ISSUE FOR APPROVAL				J.M.H.	E.B.	J.M.H.	J.M.H.	DATE APRIL 2025			J. HILL RPEQ 19891 For and on behalf of WESTERA PARTNERS PTY. LTD.		
No.	DATE	REVISIONS				DES	DRN	CHK	APD	DOCUMENT CONTROL	APPROVED	www.westerapartners.com.au ABN 52 097 417 975			

GENERAL NOTES

- WESTERA PARTNERS HAS LIMITED CONTROL OR INPUT TO LOCAL GOVERNMENT OR OTHER LEGISLATED APPROVALS UNLESS SPECIFICALLY ENGAGED BY IT'S CLIENT. ANY CHANGES TO APPROVAL REQUIREMENTS (INCLUDING ORDERS FOR SUSPENSION OF WORKS ETC) SHOULD BE COMMUNICATED TO WESTERA PARTNERS AND ALL OTHER RELEVANT DESIGNERS TO ALLOW ASSESSMENT OF POTENTIAL RISKS AND ENSURE DESIGN AND SAFETY COMPLIANCE.
- G2 ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITIES STANDARD DRAWINGS & SPECIFICATIONS AND COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT AND LOCAL AUTHORITY.
- G3 UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- G4 PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE CONTRACTOR MUST LOCATE ALL EXISTING SERVICES AND PROMPTLY PROVIDE THE LOCATION DATA TO THE DESIGN ENGINEER TO ASSESS IMPACTS ON THE DESIGN.
- G5 ALL CONNECTIONS TO EXISTING SEWERS AND WATER MAINS ARE TO BE CONSTRUCTED BY THE LOCAL AUTHORITY OR AN APPROVED CONTRACTOR. THE CONTRACTOR IS TO ALLOW IN HIS CONTRACT SUM FOR THE COST OF ANY PROPOSED CONNECTIONS.
- G6 ALL SEWERS ARE TO BE 150MM DIA. U.P.V.C. CLASS SN8 RUBBER RING JOINTED AND PROPERTY CONNECTIONS ARE TO BE 100MM DIA. U.P.V.C CLASS SN6 UNLESS NOTED OTHERWISE
- G7 THE PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY AND ARE TO BE VERIFIED FOLLOWING SUB-SOIL TESTS OF THE SUB-GRADE MATERIAL.
- G8 ALL ROOFWATER CONNECTIONS FROM KERB ADAPTERS ARE TO BE 100MM DIA CLASS SN10 AT A MIN GRADE OF 1.0% UNLESS SHOWN OTHERWISE. ROOFWATER CONNECTIONS FROM FIELD INLETS OR GULLY PITS ARE TO BE 150MM DIA CLASS SN8 AT A MIN GRADE OF 1.0% UNLESS NOTED OTHERWISE.
- G9 ALL U.P.V.C. STORMWATER DRAINAGE PIPES ARE TO BE CLASS SN8 (U.N.O.)
ALL R.C. PIPES ARE TO BE CLASS 3 (U.N.O.) WITH SPIGOT AND SOCKET AND RUBBER RING JOINTS.

ALL F.R.C. PIPES ARE TO BE FRCP/PIPE R+ CLASS 4 (U.N.O.) AND SHALL BE DUAL RUBBER RING JOINT WITH COLLAR. PIPES SHALL BE FROM 225Ø TO 525Ø ONLY.
- POLYPROPYLENE/POLYETHYLENE STORMWATER PIPE MINIMUM CLASS SN8 (U.N.O.) SUBJECT TO ACCEPTANCE BY CERTIFYING ENGINEER AND LOCAL AUTHORITY. CONSTRUCTION AND EMBEDMENT TO BE IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- G10 WATER PIPES SHALL BE;
- P.V.C.-M WATER PIPES ARE TO BE SERIES 2 PN16 SN10 R.R.J.
- D.I.C.L. WATER PIPES ARE TO BE PN35 WITH ALL FITTINGS TO BE FUSION BONDED POLYMERIC COATED.
- PE WATER PIPES ARE TO BE PN16 SDR11 PE100. DN25 AND DN32 WATER SERVICES SHALL BE PE80B.
- G11 ALL "AS CONSTRUCTED" INFORMATION IS TO BE RECORDED AS REQUIRED BY THE LOCAL AUTHORITY AND SUBMITTED TO THE SUPERINTENDENT IMMEDIATELY AFTER COMPLETION OF THE WORKS.
- G12 ALL ALLOTMENTS ARE TO BE GRADED AT A MINIMUM GRADE OF 1 IN 200.

CONCRETE NOTES

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600 CONCRETE STRUCTURES CODE AND THE REFERENCED STANDARDS THEREIN.
- C2 THE CONCRETE STRENGTH GRADE AND THE COVER TO REINFORCEMENT FOR THE VARIOUS CONCRETE ELEMENTS SHALL BE AS LISTED BELOW:
- CLIMATE ZONE: TROPICAL TEMPERATE ARID
- LOCATION: COASTAL NEAR COASTAL INLAND

ELEMENT	EXPOSURE CLASSIFICATION	STRENGTH GRADE	MINIMUM COVER
MANHOLES	B1	N32	40
	C2	S50	65
FIELD INLET PITS	B1	N32	40
	C2	S50	65
HEADWALLS	B1	N32	40
	C2	S50	65
INTERNAL ROADS	B1	N32	40
KERB/CHANNEL	B1	N32	—
FOOTPATHS	B1	N32	40
RETAINING WALL PANELS	B1	N32	30*
	C2	S50	60*
BORED PIERS	B1	N32	40
	C2	S50	65

*RIGID FORMWORK & INTENSE COMPACTION

- | | |
|----|---|
| C3 | CONCRETE TO HAVE A MAXIMUM AGGREGATE SIZE OF 20mm WITH 80mm MAXIMUM SLUMP, A WATER/CEMENT RATIO OF NOT GREATER THAN 0.65 AND A MAXIMUM FINAL BASIC DRYING SHRINKAGE STRAIN OF 800×10^{-6} , UNLESS APPROVED OTHERWISE. |
| C4 | NO ADDITIVES SHALL BE ADDED OR APPLIED TO THE CONCRETE MIX WITHOUT THE APPROVAL OF THE ENGINEER. |

- C5 THE MAXIMUM PERMISSIBLE TRANSPORT TIME FOR CONCRETE BETWEEN BATCHING AND PLACEMENT ON SITE SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE.

AMBIENT AIR TEMPERATURE	MAX. BATCHING TO PLACEMENT TIME
10° - 24°C	120 MINUTES
25° - 27°C	90 MINUTES
28° - 30°C	60 MINUTES
31° - 33°C	45 MINUTES
34° - 36°C	30 MINUTES
37°C+	NO PLACEMENT OF CONCRETE UNLESS CHILLED WATER OR ICE IN MIX

- C7 ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.
- C8 ALL CONCRETE SHALL BE SAMPLED AND TESTED IN ACCORDANCE WITH AS1379 ADOPTING THE PROJECT ASSESSMENT METHOD FOR COMPRESSIVE STRENGTH AND SLUMP COMPLIANCE. THE RESULTS OF ALL TESTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW.
- C9 WHEN THE AIR TEMPERATURE EXCEEDS 30°C, ALIPHATIC ALCOHOL SHALL BE APPLIED TO THE CONCRETE SURFACE OF SLABS IMMEDIATELY AFTER THE INITIAL SCREED AND AGAIN AFTER BULL FLOATING.
- C10 CURING OF ALL CONCRETE SURFACES SHALL COMMENCE IMMEDIATELY AFTER COMPLETING CONCRETE FINISHING AND SHALL CONTINUE FOR 7 DAYS. CONTRACTOR TO CONFIRM METHOD OF CURING WITH ENGINEER PRIOR TO USE.
- C11 SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.
- C12 NO HOLES, CHASES OR EMBEDDED ITEMS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER. CONDUITS, PIPES ETC. SHALL NOT BE PLACED IN THE COVER THICKNESS OF THE CONCRETE.
- C13 WHERE SERVICE PIPES PENETRATE CONCRETE ELEMENTS, PROVISION SHOULD BE MADE TO ALLOW FOR MOVEMENT OF THE ELEMENT.
- C14 FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS3610 FORMWORK CODE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- C15 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY SHOWN IN TRUE PROJECTION OR SCALE.
- C16 ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED IN ITS CORRECT POSITION ON PLASTIC BAR CHAIRS, GENERALLY AT NOT GREATER THAN 800mm CENTRES IN BOTH DIRECTIONS.
- C17 WELDING AND HEATING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
- C18 ALL STEEL REINFORCEMENT IN CONCRETE ELEMENTS SHALL BE INSPECTED BY THE ENGINEER AND PASSED PRIOR TO POURING OF ANY CONCRETE.
- C19 LAP REINFORCEMENT ONLY AT LOCATIONS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER.
- C20 SLAB FABRIC SHALL BE LAPPED ONE FULL PANEL OF FABRIC PLUS 50mm SO THAT THE TWO OUTERMOST TRANSVERSE WIRES OF ONE SHEET OVERLAP THE TWO OUTERMOST TRANSVERSE WIRES OF THE SHEET BEING LAPPED BY 50mm.
- C21 BAR REINFORCEMENT SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING TABLE.
- | TYPICAL BAR REINFORCEMENT LAP LENGTHS | | |
|---------------------------------------|----------------|---|
| BAR | LAP LENGTH UNO | HORIZONTAL BARS WITH GREATER THAN 300mm OF CONCRETE CAST BELOW THEM |
| N12 | 550 | 750 |
| N16 | 800 | 1100 |
| N20 | 1100 | 1400 |
| N24 | 1250 | 1600 |
| N28 | 1400 | 1800 |
| N32 | 1600 | 2100 |
| N36 | 2000 | 2500 |
- WHERE LAPS ARE SHOWN ON THE DRAWINGS THE ABOVE LAP LENGTHS SHALL BE ADOPTED UNLESS NOTED OTHERWISE. WHERE BARS OF DIFFERENT DIAMETER ARE SHOWN LAPPED, ADOPT THE LAP LENGTH APPROPRIATE TO THE SMALLER DIAMETER BAR.
- C22 A VAPOUR BARRIER OF 0.2mm (200µm) MINIMUM THICK POLYTHENE SHEETING SHALL BE PLACED BENEATH SLABS ON GROUND UNLESS NOTED OTHERWISE.

TYPICAL BAR REINFORCEMENT LAP LENGTHS		
BAR	LAP LENGTH UNO	HORIZONTAL BARS WITH GREATER THAN 300mm OF CONCRETE CAST BELOW THEM
N12	550	750
N16	800	1100
N20	1100	1400
N24	1250	1600
N28	1400	1800
N32	1600	2100
N36	2000	2500

WHERE LAPS ARE SHOWN ON THE DRAWINGS THE ABOVE LAP LENGTHS SHALL BE ADOPTED UNLESS NOTED OTHERWISE. WHERE BARS OF DIFFERENT DIAMETER ARE SHOWN LAPPED, ADOPT THE LAP LENGTH APPROPRIATE TO THE SMALLER DIAMETER BAR.

- C22 A VAPOUR BARRIER OF 0.2mm (200um) MINIMUM THICK POLYTHENE SHEETING SHALL BE PLACED BENEATH SLABS ON GROUND UNLESS NOTED OTHERWISE.

GENERAL

- | | |
|---------------------------------------|---|
| ASPHALTIC CONCRETE PAVEMENT |  |
| REINFORCED CONCRETE PAVEMENT |  |
| REINFORCED CONCRETE PATHWAY/CROSSOVER |  |
| TURF |  |
| STONE PITCHING |  |
| CEMENT GROUTED STONE PITCHING |  |
| TELECOMMUNICATION | — T — |
| GAS MAIN | — G — |
| ELECTRICITY OVERHEAD | — V — |
| ELECTRICITY UNDERGROUND | — E — |
| LIGHT POLE | — LP —  |
| POWER POLE | — PP —  |
| PIT (TELSTRA/ELEC) | —  — |
| EDGE OF BITUMEN | —  — |
| FENCE | — / — / — / — |
| EXISTING SURFACE LEVEL | × 2.53 |
| EXISTING CONTOUR MINOR | — 33.75 — |
| EXISTING CONTOUR MAJOR | — 34.00 — |
| DESIGN SURFACE LEVEL | × 2.53 |
| DESIGN CONTOUR MINOR | — 33.75 — |
| DESIGN CONTOUR MAJOR | — 34.00 — |
| RETAINING WALL |  |
| STAGE BOUNDARY |   |

STORMWATER DRAINAGE

- | | NEW | EXISTING |
|----------------------------------|---|---|
| STORMWATER PIPE |  |  |
| SAG GULLY PIT |  |  |
| ON GRADE GULLY PIT |  |  |
| MANHOLE |  |  |
| 600 x 600 FIELD INLET |  |  |
| 900 x 600 FIELD INLET |  |  |
| 1050 DIA FIELD INLET |  |  |
| HEADWALL |  |  |
| KERB ADAPTER WITH ROOFWATER PIPE |  | |
| STORMWATER STRUCTURE LABEL |  | |

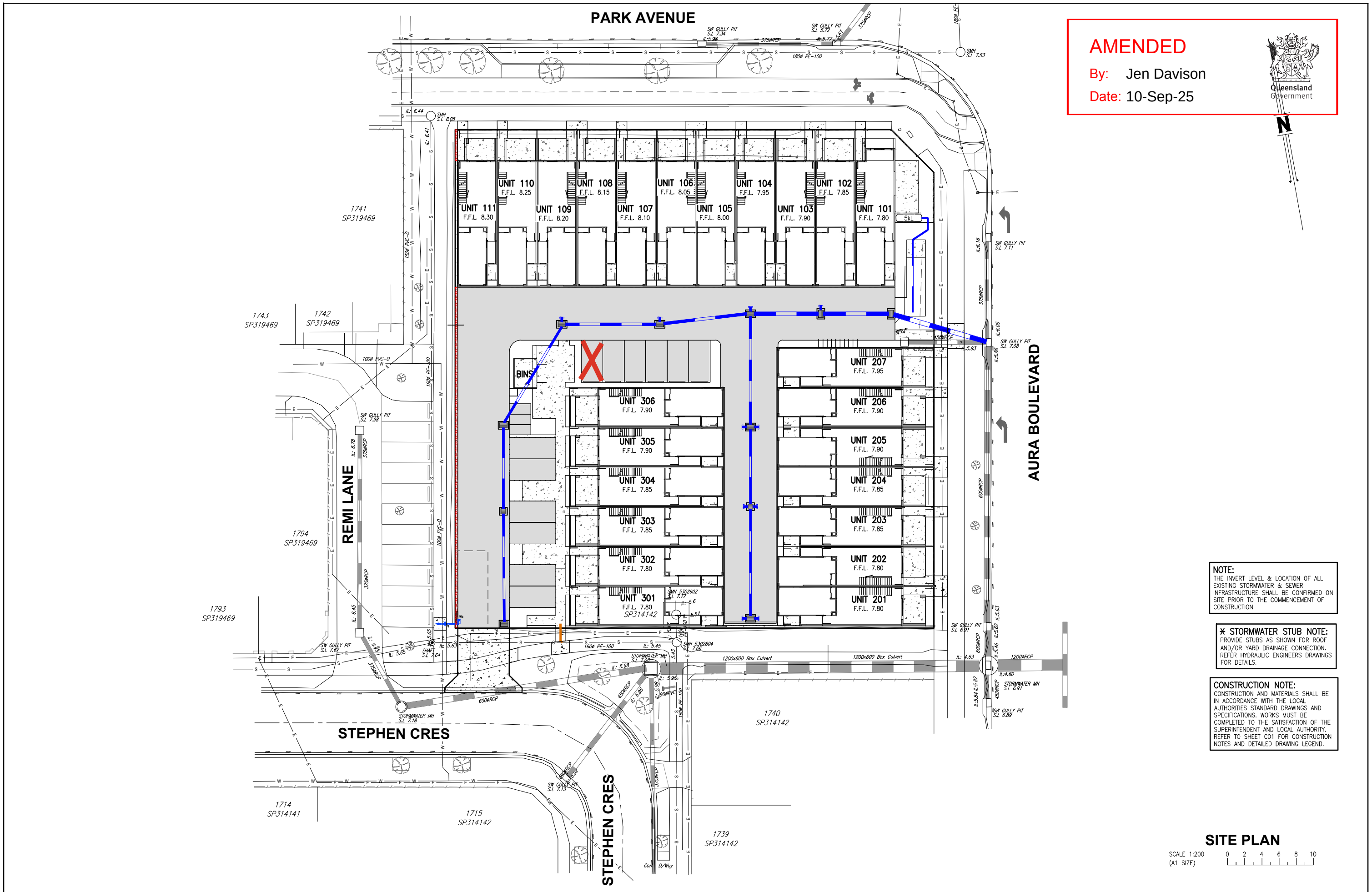
LEGEND

- | | NEW | EXISTING | DISUSED |
|-----------------------------------|-----|----------|---------|
| WATER MAIN | | | |
| FIRE HYDRANT | | | |
| DUAL OUTLET FIRE HYDRANT | | | |
| SWABBING DUAL OUTLET FIRE HYDRANT | | | |
| SWABBING FIRE HYDRANT | | | |
| ISOLATION VALVE | | | |
| SCOUR VALVE | | | |
| AIR VALVE | | | |
| DEAD END | | | |
| TEST/CHLORINATION POINT | | | |
| REDUCER | | | |
| PIPE MATERIAL CHANGE | | | |
| WATER SERVICE PRE-TAPPED TEE | | | |
| WATER SERVICE PIPE & CONDUIT | | | |
| FLOW METER | | | |
| FLUSHING POINT | | | |

SEWERAGE

- | | NEW | EXISTING | DISUSED |
|--------------------------------|-----|----------|---------|
| GRAVITY SEWER MAIN | | | |
| SEWER RISING MAIN | | | |
| SEWER VACUUM MAIN | | | |
| MAINTENANCE HOLE & END OF LINE | | | |
| END OF LINE | | | |
| MAINTENANCE SHAFT | | | |
| HORIZONTAL/VERTICAL BEND | | | |
| COMPOUND BEND | | | |
| STUB / TEMPORARY END | | | |
| RODDING END | | | |
| PROPERTY CONNECTION | | | |
| OVERFLOW MAINTENANCE HOLE | | | |
| ISOLATION VALVE | | | |
| SCOUR VALVE AND CHAMBER | | | |
| GAS RELEASE VALVE | | | |
| FLUSHING POINT | | | |
| DISCHARGE MAINTENANCE HOLE | | | |
| NON-RETURN/REFLUX VALVE | | | |
| VENT POLE / ODOUR CONTROL UNIT | | | |

[illegible]



AMENDED
By: Jen Davison
Date: 10-Sep-25



NOTE:
THE INVERT LEVEL & LOCATION OF ALL EXISTING STORMWATER & SEWER INFRASTRUCTURE SHALL BE CONFIRMED ON SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

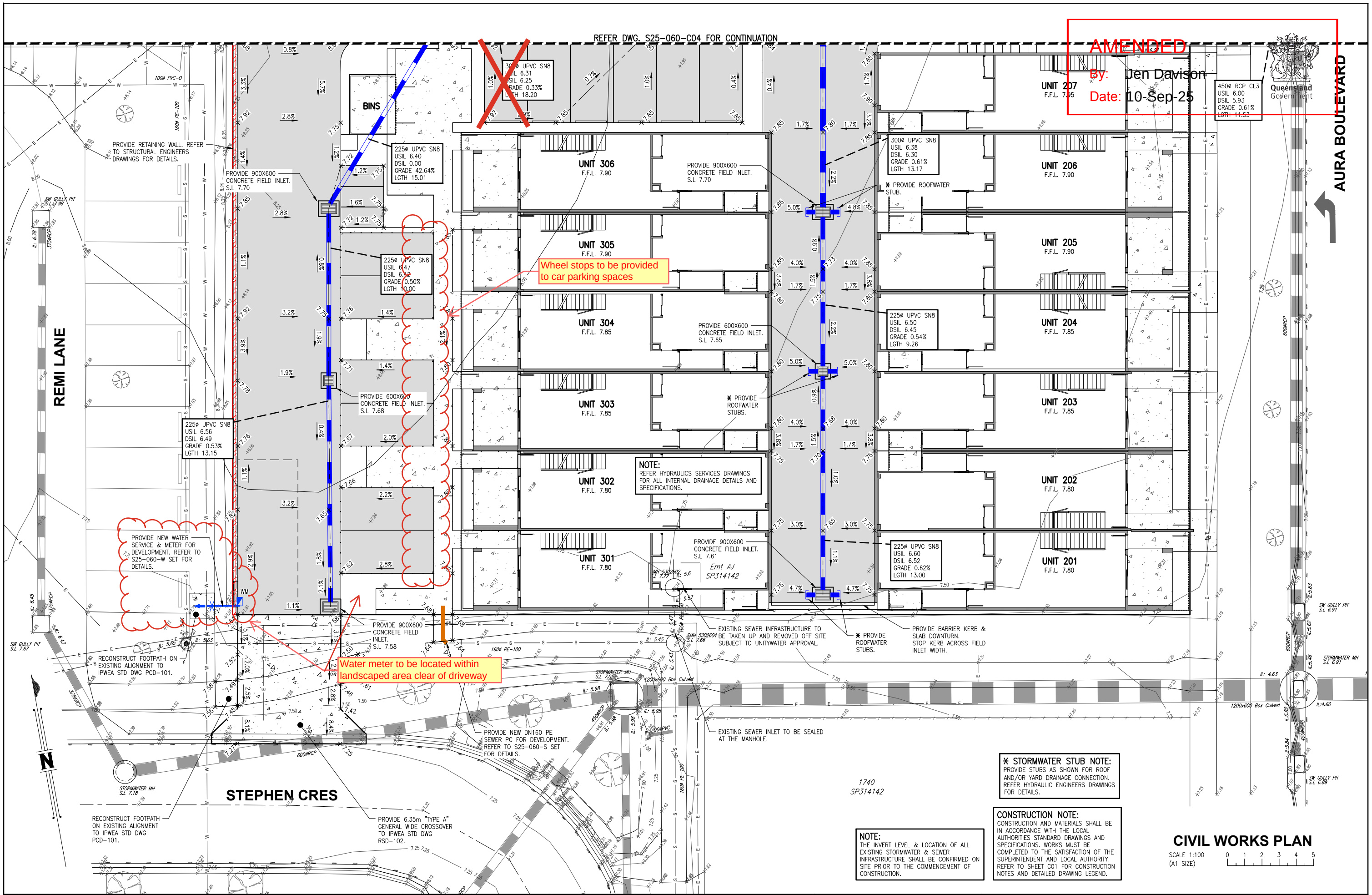
*** STORMWATER STUB NOTE:**
PROVIDE STUBS AS SHOWN FOR ROOF AND/OR YARD DRAINAGE CONNECTION. REFER HYDRAULIC ENGINEERS' DRAWINGS FOR DETAILS.

CONSTRUCTION NOTE:
CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL AUTHORITIES STANDARD DRAWINGS AND SPECIFICATIONS. WORKS MUST BE COMPLETED TO THE SATISFACTION OF THE SUPERINTENDENT AND LOCAL AUTHORITY. REFER TO SHEET C01 FOR CONSTRUCTION NOTES AND DETAILED DRAWING LEGEND.

SITE PLAN

SCALE 1:200
(A1 SIZE)

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



								DESIGNED J.M.H.								WESTERA PARTNERS STRUCTURAL+GEO+ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975				BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au				SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000				DATUM A.H.D. P.M. 200442 R.L. 9.861				PROJECT PROPOSED RESIDENTIAL DEVELOPMENT				DRAWING STATUS FOR APPROVAL			
D	13.08.25	ARCHITECTURAL AMENDMENT				J.M.H.	E.B.	J.M.H.	J.M.H.	DRAWN E.B.										LOT 4 on SP347407 8014 PARK AVE, NIRIMBA				DRAWING NUMBER S25-060-C03															
C	28.05.25	GENERAL AMENDMENT				J.M.H.	J.J.D	J.M.H.	J.M.H.	CHECKED J.M.H.																													
B	13.05.25	GENERAL AMENDMENT				J.M.H.	E.B.	J.M.H.	J.M.H.	APPROVED J.M.H.																													
A	01.05.25	ISSUE FOR APPROVAL				J.M.H.	E.B.	J.M.H.	J.M.H.	DATE APRIL 2025																													
No.				DATE				REVISIONS				DES DRN CHK APD				DOCUMENT CONTROL				APPROVED																			

✱ STORMWATER STUB NOTE:
PROVIDE STUBS AS SHOWN FOR ROOF
AND/OR YARD DRAINAGE CONNECTION.
REFER HYDRAULIC ENGINEERS DRAWINGS
FOR DETAILS.

CONSTRUCTION NOTE:
CONSTRUCTION AND MATERIALS SHALL BE
IN ACCORDANCE WITH THE LOCAL
AUTHORITIES STANDARD DRAWINGS AND
SPECIFICATIONS. WORKS MUST BE
COMPLETED TO THE SATISFACTION OF THE
SUPERINTENDENT AND LOCAL AUTHORITY.
REFER TO SHEET C01 FOR CONSTRUCTION
NOTES AND DETAILED DRAWING LEGEND.

NOTE:
THE INVERT LEVEL & LOCATION OF ALL
EXISTING STORMWATER & SEWER
INFRASTRUCTURE SHALL BE CONFIRMED ON
SITE PRIOR TO THE COMMENCEMENT OF
CONSTRUCTION.

PARK AVENUE

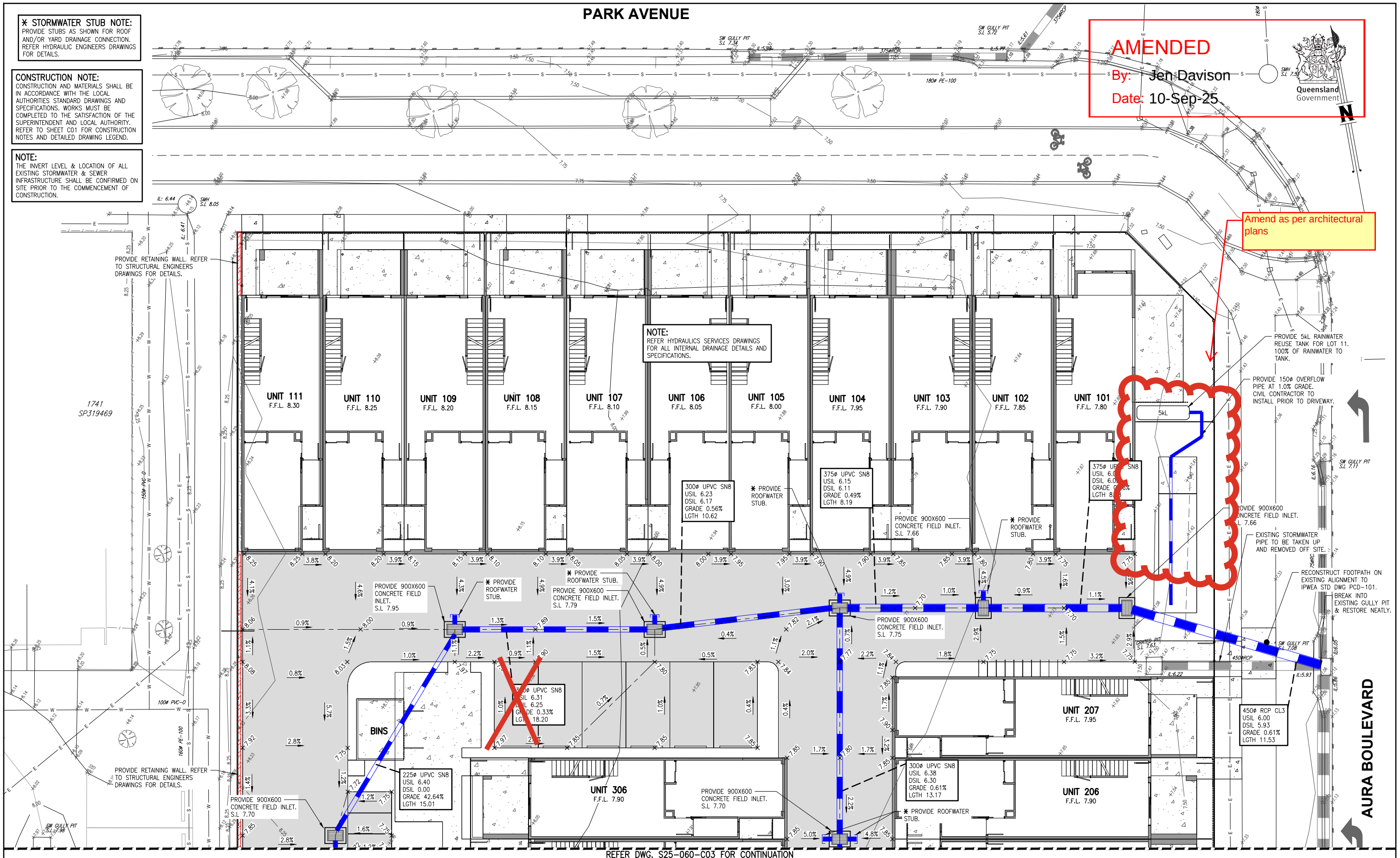
AMENDED

By: Jen Davison

Date: 10-Sep-25



Amend as per architectural
plans



REFER DWG. S25-060-C03 FOR CONTINUATION

CIVIL WORKS PLAN

SCALE 1:100
(A1 SIZE)

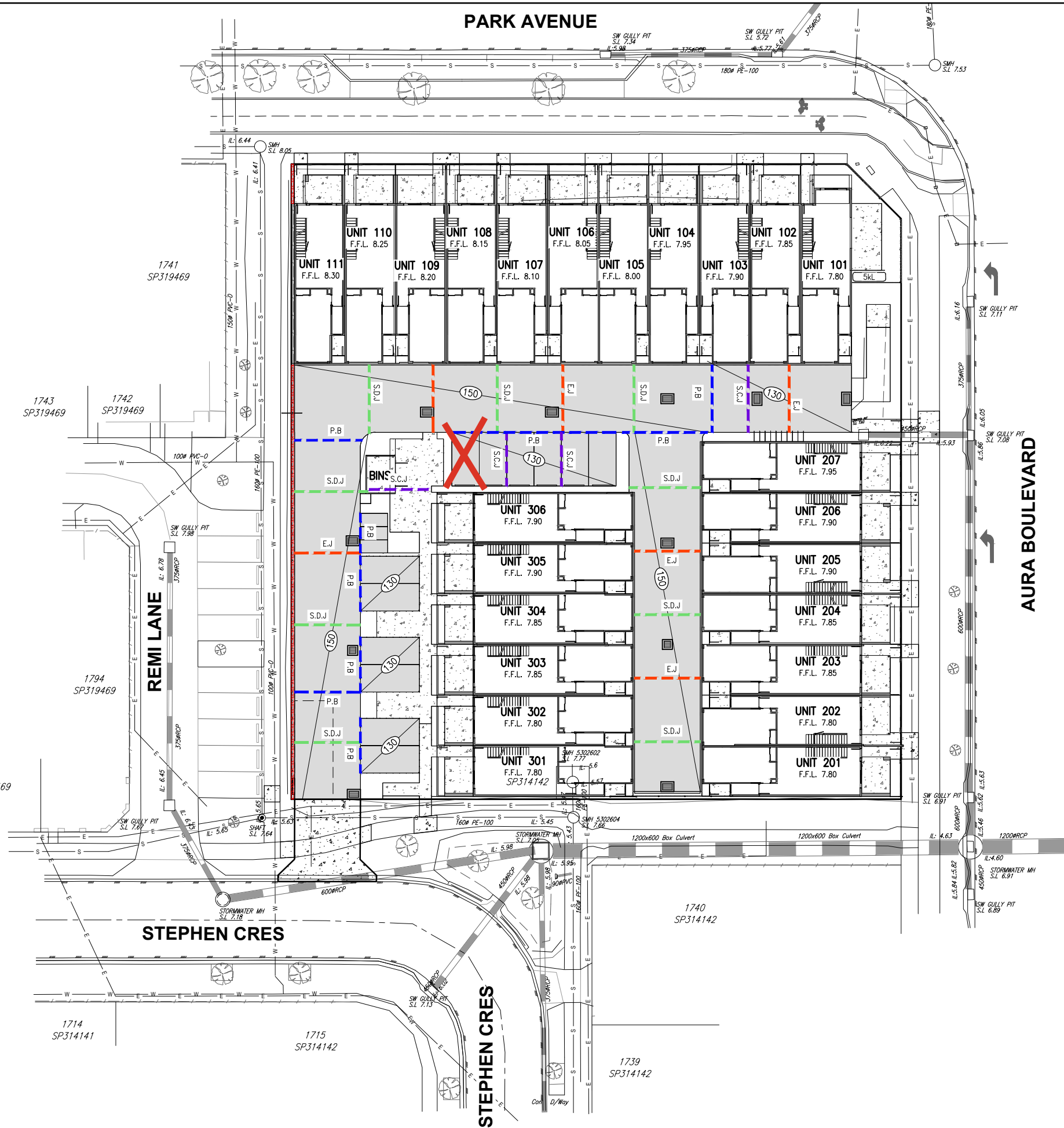
										DESIGNED J.M.H.						WESTERA PARTNERS STRUCTURAL-CIVIL-ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6674 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000 DATUM A.H.D. P.M. 200442 R.L. 9.861	PROJECT LOCATION LOT 4 on SP347407 8014 PARK AVE, NIRIMBA	TITLE CIVIL WORKS PLAN 02 of 02	CLIENT NIRIMBA BY VANTAGE PTY LTD	DRAWING STATUS FOR APPROVAL DRAWING NUMBER S25-060-C04 SHEET NUMBER 04 OF 07 REVISION D
D	13.08.25	ARCHITECTURAL AMENDMENT	J.M.H.	E.B.	J.M.H.	J.M.H.	DRAWN E.B.															
C	28.05.25	GENERAL AMENDMENT	J.M.H.	J.D.	J.M.H.	J.M.H.	CHECKED J.M.H.															
B	13.05.25	GENERAL AMENDMENT	J.M.H.	E.B.	J.M.H.	J.M.H.	APPROVED J.M.H.															
A	01.05.25	ISSUE FOR APPROVAL	J.M.H.	E.B.	J.M.H.	J.M.H.	DATE APRIL 2025															
No.	DATE	REVISIONS	DES	DRN	CHK	APD	DOCUMENT CONTROL	APPROVED														

LEGEND

- EXPANSION JOINT (E.J.)
- POUR BREAK (P.B.)
- SAWN DOWELLED JOINT (S.D.J.)
- SAW CUT JOINT (S.C.J.)

PAVEMENTS SUBGRADE PREPARATION

- FOLLOWING EARTHWORKS THE PAVEMENT SUBGRADE SHALL BE PROOF ROLLED AND ANY AREAS SHOWING EXCESSIVE MOVEMENT SHALL BE TREATED BY TYING AND DRYING OUT OR EXCAVATING AND REPLACING WITH SUITABLE IMPORTED MATERIAL AND RE-COMPACTING UNDER ENGINEERS SUPERVISION.
- ONCE A HARD FLAT SUBGRADE IS ACHIEVED A BEDDING LAYER OF MINIMUM 50 GRANULAR MATERIAL (CRUSHER DUST OR EQ.) SHALL BE PLACED AND PROFILED TO ACHIEVE THE SPECIFIED SLAB THICKNESS.
- A LAYER OF 200 MICRON HDPE SHEET SHALL BE PLACED OVER THE BEDDING MATERIAL PRIOR TO STEELING UP.



AMENDED

By: Jen Davison

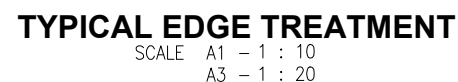
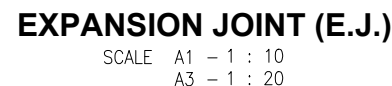
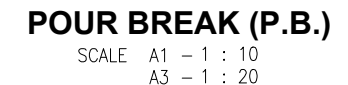
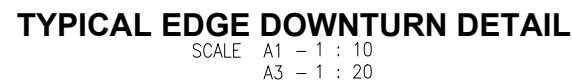
Date: 10-Sep-25



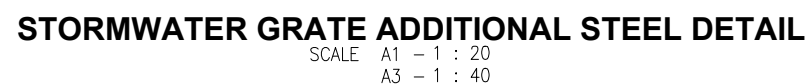
PAVEMENT & JOINTING PLAN

SCALE 1:200
(A1 SIZE)

								DESIGNED J.M.H.					 WESTERA PARTNERS STRUCTURAL-CIVIL-ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6674 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000 DATUM A.H.D. P.M. 200442 R.L. 9.861	PROJECT PROPOSED RESIDENTIAL DEVELOPMENT LOCATION LOT 4 on SP347407 8014 PARK AVE, NIRIMBA TITLE PAVEMENT & JOINTING PLAN CLIENT NIRIMBA BY VANTAGE PTY LTD	DRAWING STATUS FOR APPROVAL DRAWING NUMBER S25-060-C05 SHEET NUMBER 05 OF 07 REVISION D
D	13.08.25	ARCHITECTURAL AMENDMENT	J.M.H.	E.B.	J.M.H.	J.M.H.	DRAWN E.B.										
C	28.05.25	GENERAL AMENDMENT	J.M.H.	J.J.D	J.M.H.	J.M.H.	CHECKED J.M.H.										
B	13.05.25	GENERAL AMENDMENT	J.M.H.	E.B.	J.M.H.	J.M.H.	APPROVED J.M.H.										
A	01.05.25	ISSUE FOR APPROVAL	J.M.H.	E.B.	J.M.H.	J.M.H.	DATE APRIL 2025										
No.	DATE	REVISIONS	DES	DRN	CHK	APD	DOCUMENT CONTROL	APPROVED				J. HILL RPEO 19891 For and on behalf of WESTERA PARTNERS PTY. LTD.					



- ## NOTES:
1. CONCRETE STRENGTH TO BE N32
 2. THE PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY AND ARE TO BE VERIFIED FOLLOWING CBR TESTS OF THE SUBGRADE MATERIAL
 3. MARK PROPOSED JOINT LOCATIONS CLEARLY ON EDGE FORMS PRIOR TO POURING.
 4. POUR BREAK JOINTS ARE TO BE PLACED AT NOT MORE THAN 36m MAXIMUM SPACINGS.
 5. EXPANSION JOINTS ARE TO BE PLACED AT NOT MORE THAN 12m MAXIMUM SPACINGS.
 6. SAWN DOWELED JOINTS ARE TO BE PLACED AT NOT MORE THAN 6m MAXIMUM SPACINGS.
 7. JOINT SPACING AND ARRANGEMENT MAY BE ALTERED ONSITE WITH THE APPROVAL OF THE INSPECTING ENGINEER.

[illegible]

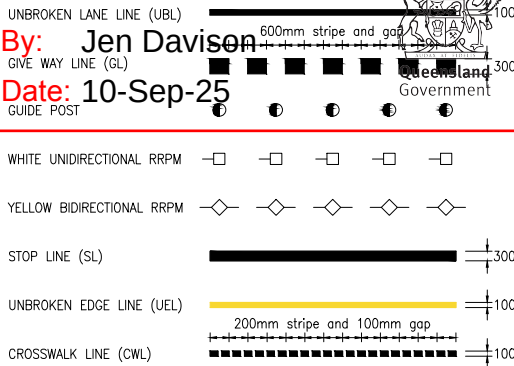
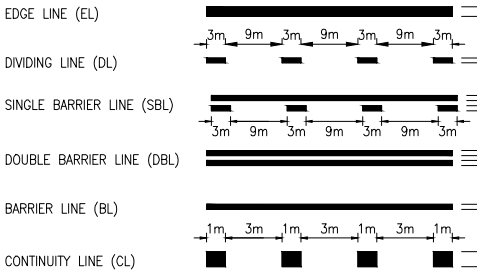
PARK AVENUE

LEGEND

AMENDED

By: Jen Davison

Date: 10-Sep-25



Aisle width to be 6.1m minimum.

Aisle to be 6.3m minimum clear width between walls or other barriers

SIGNS & LINEMARKING PLAN

SCALE 1:200 (A1 SIZE)

						DESIGNED J.M.H.						 WESTERA PARTNERS STRUCTURAL-CIVIL-ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975			BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au			SURVEYOR BENNETT + BENNETT P.M. 200442 R.L. 9861			DATUM A.H.D. P.M. 200442 R.L. 9861			PROJECT PROPOSED RESIDENTIAL DEVELOPMENT			DRAWING STATUS		
D 13.08.25			ARCHITECTURAL AMENDMENT			J.M.H. E.B. J.M.H. J.M.H.									DRAWN E.B.			GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au			PHOTO FIGURED DIMENSIONS ONLY DO NOT SCALE, IF A DISCREPANCY OCCURS CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY, DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THERE FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.			LOCATION LOT 4 ON SP347407 8014 PARK AVE, NIRIMBA			FOR APPROVAL		
C 28.05.25			GENERAL AMENDMENT			J.M.H. J.J.D. J.M.H. J.M.H.									CHECKED J.M.H.			SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au											
B 13.05.25			GENERAL AMENDMENT			J.M.H. E.B. J.M.H. J.M.H.									APPROVED J.M.H.			NORTHERN NSW T 02 6674 8047 E northern@westerapartners.com.au											
A 01.05.25			ISSUE FOR APPROVAL			J.M.H. E.B. J.M.H. J.M.H.									DATE APRIL 2025			J. HILL RPEO 19891 E jhill@westerapartners.com.au			CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au								
No. DATE			REVISIONS			DES DRN CHK APD			DOCUMENT CONTROL			APPROVED									TITLE SIGNS & LINEMARKING PLAN			SHEET NUMBER S25-060-C07			REVISION		
																					CLIENT NIRIMBA BY VANTAGE PTY LTD			07 OF 07			D		

EARTHWORKS LEGEND

DEPTH OF CUT TABLE DEPTH OF FILL TABLE

0.0m - 0.25m		0.0m - 0.25m	
0.25m - 0.5m		0.25m - 0.5m	
0.5m - 0.75m		0.5m - 0.75m	
0.75m - 1.0m		0.75m - 1.0m	
1.0m - 1.25m		1.0m - 1.25m	
1.25m - 1.5m		1.25m - 1.5m	
1.5m - 1.75m		1.5m - 1.75m	
1.75m - 2.0m		1.75m - 2.0m	
2.0m - 2.25m		2.0m - 2.25m	
2.25m - 2.5m		2.25m - 2.5m	
> 2.5m		> 2.5m	

EARTHWORKS SUMMARY

AREA OF CUT - 1,780.0m²
AREA OF FILL - 1,425.5m²
VOLUME OF CUT - 308.0m³
VOLUME OF FILL - 183.0m³

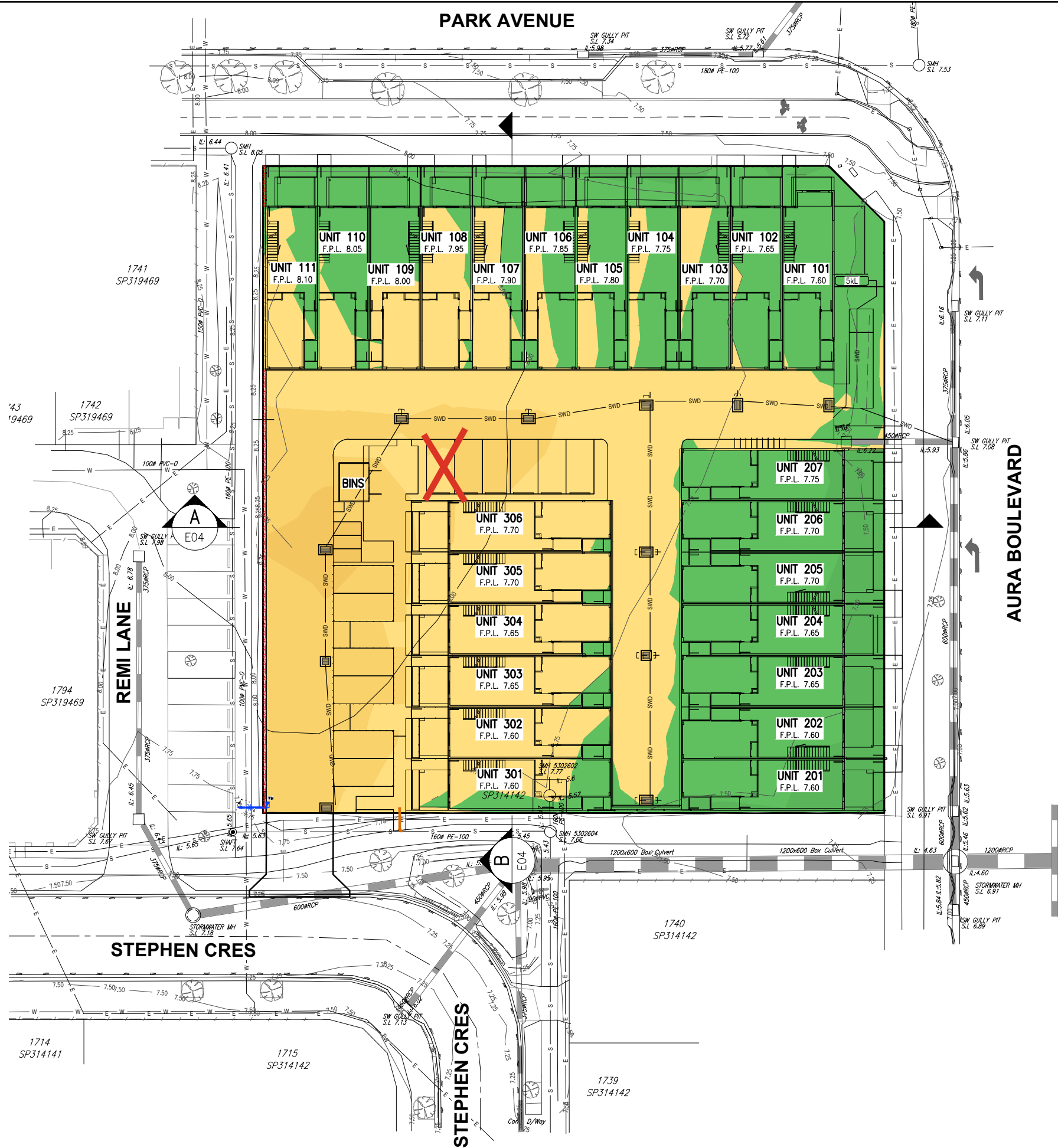
THE EARTHWORKS VOLUMES SHOWN ARE INDICATIVE NETT FIGURES ONLY BETWEEN EXISTING SURFACE LEVEL AND FINISHED EARTHWORKS LEVEL AND DO NOT ALLOW FOR DEMOLITION WORKS, STRIPPING OF TOPSOIL, UNSUITABLE MATERIAL AND VEGETATION OR COMPACTION LOSSES.

PAVEMENT LEVELS SHOWN ARE 200mm BELOW F.S.L.
BUILDING PAD LEVELS SHOWN ARE 200mm BELOW F.S.L.
LANDSCAPING LEVELS SHOWN ARE 100mm BELOW F.S.L.

EARTHWORKS LEVELS MAY BE ADJUSTED TO SUIT FFL'S AND CONCRETE THICKNESS BASED ON STRUCTURAL DESIGN AS APPROVED BY SUPERINTENDENT.

GENERAL NOTES

- IN CASE OF DOUBT - ASK!
- ALL LEVELS TO AHD, DIMENSIONS IN METERS U.N.O
- ALL LIAISON WITH LOCAL, STATE & STATUTORY AUTHORITIES IS THE CONTRACTOR'S RESPONSIBILITY.
- THE LOCATION OF EXISTING SERVICES IS FOR CONTRACTOR'S INFORMATION ONLY, THE LOCATION OF SERVICES WILL BE CONFIRMED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS.
- ANY DAMAGE CAUSED TO THE EXISTING SERVICE WILL BE MADE GOOD AT THE CONTRACTORS EXPENSE.
- EARTHWORKS PROCEDURES ARE TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798 - 2007 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS".
- EARTHWORKS OPERATIONS ARE TO BE CARRIED OUT IN GENERAL ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- WORKS NOT SPECIFICALLY REFERRED TO, ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL DRAWINGS AND SPECIFICATIONS OF THE LOCAL AUTHORITY.
- THE CONTRACTOR IS TO ALLOW FOR ALL FEES AND HAULAGE COSTS ASSOCIATED WITH DISPOSAL OF MATERIAL FROM THE SITE.
- ALL COSTS ASSOCIATED WITH NOISE AND DUST SUPPRESSION FOR SITE WORKS ARE DEEMED THE CONTRACTOR'S RESPONSIBILITY.
- COMPACTION STANDARDS
-MODIFIED TO AS 1289 TEST 5.2.1
-STANDARD TO AS 1289 TEST 5.1.1
- PRIOR TO COMMENCEMENT OF WORKS THE CONTRACTOR WILL PROVIDE SCOUR AND EROSION PROTECTION INCLUDING PROVISION OF SILT TRAPS AND FENCES TO MINIMISE DEPOSITION OF MATERIAL DOWNSTREAM OF THE PROPERTY.
- NO BLASTING WILL BE PERMITTED.
- THE LOCATION OF THE SITE SHEDS, SITE OFFICE AND AMENITIES BUILDING WILL BE LOCATED TO SUIT TEMPORARY UTILITY SERVICES OR AS AGREED WITH THE MANAGER.
- TESTING FREQUENCY AS 3798 - 2007 SECTION 8.0 OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.
- AT COMPLETION OF CONSTRUCTION THE CONTRACTOR SHALL ARRANGE FOR AN INDEPENDENT LICENSED SURVEYOR TO CARRY OUT A "WORKS AS CONSTRUCTED" SURVEY AND SUBMIT THE DETAIL PLAN TO THE MANAGER.
- THE LOCATION OF TEMPORARY STOCKPILES DURING CONSTRUCTION IS TO BE AGREED WITH THE MANAGER.



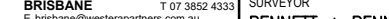
NOTE:
TEMPORARY EXCAVATIONS ARE TO BE SUPERVISED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.

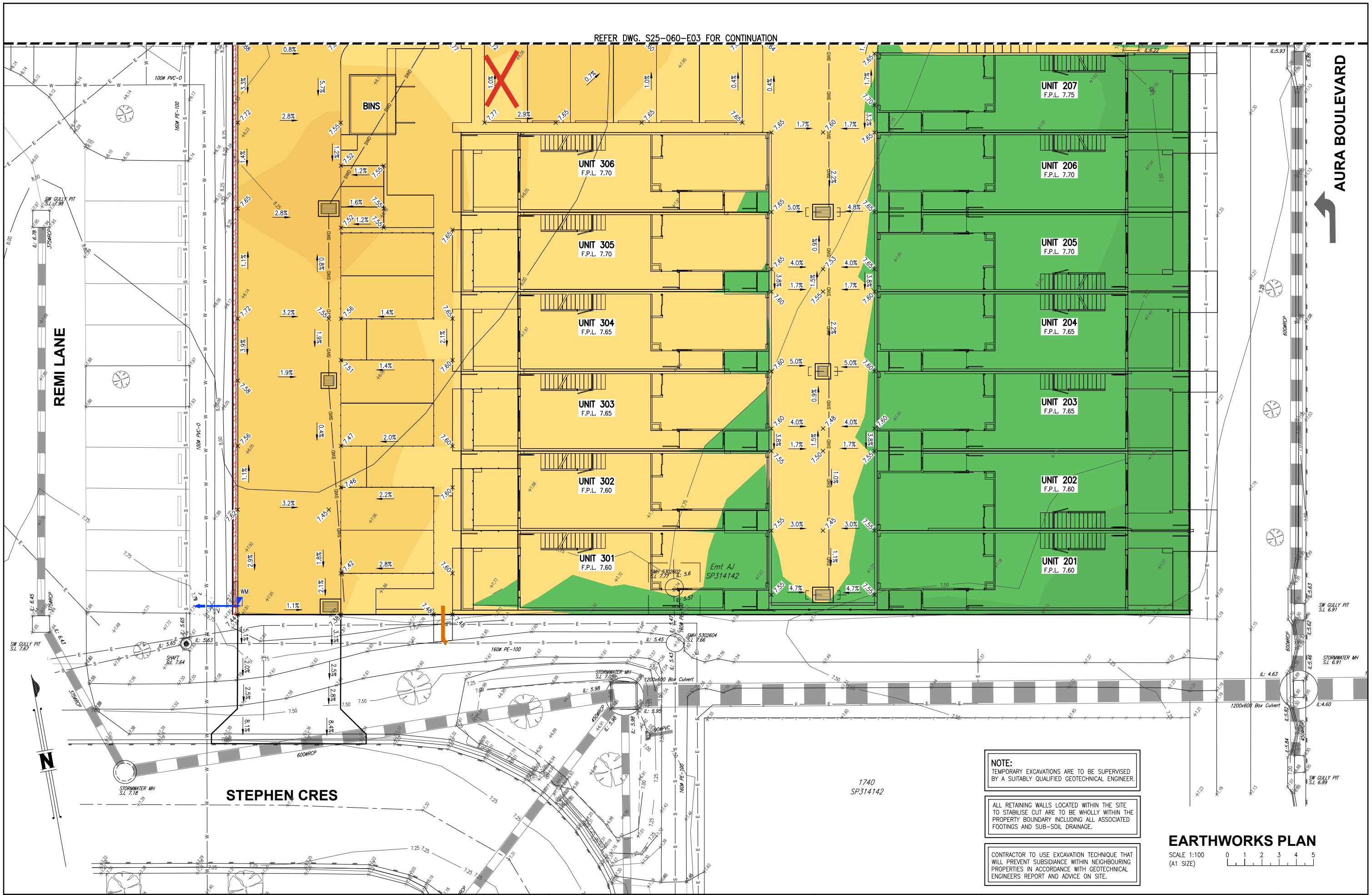
ALL RETAINING WALLS LOCATED WITHIN THE SITE TO STABILISE CUT ARE TO BE WHOLLY WITHIN THE PROPERTY BOUNDARY INCLUDING ALL ASSOCIATED FOOTINGS AND SUB-SOIL DRAINAGE.

CONTRACTOR TO USE EXCAVATION TECHNIQUE THAT WILL PREVENT SUBSIDANCE WITHIN NEIGHBOURING PROPERTIES IN ACCORDANCE WITH GEOTECHNICAL ENGINEERS REPORT AND ADVICE ON SITE.

EARTHWORKS SITE PLAN

SCALE 1:200
(A1 SIZE)

				DESIGNED J.M.H.						BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6674 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000 DATUM A.H.D. P.M. 200442 R.L. 9.861	PROJECT LOCATION TITLE CLIENT	PROPOSED RESIDENTIAL DEVELOPMENT LOT 4 on SP347407 8014 PARK AVE, NIRIMBA EARTHWORKS SITE PLAN NIRIMBA BY VANTAGE PTY LTD	DRAWING STATUS FOR APPROVAL DRAWING NUMBER S25-060-E01 SHEET NUMBER 01 OF 04 REVISION D			
D	13.08.25	ARCHITECTURAL AMENDMENT				J.M.H.	E.B.								J.M.H.	J.M.H.	DRAWN E.B.
C	28.05.25	GENERAL AMENDMENT				J.M.H.	J.J.D								J.M.H.	J.M.H.	CHECKED J.M.H.
B	13.05.25	GENERAL AMENDMENT				J.M.H.	E.B.								J.M.H.	J.M.H.	APPROVED J.M.H.
A	01.05.25	ISSUE FOR APPROVAL				J.M.H.	E.B.	J.M.H.	J.M.H.	DATE APRIL 2025							
								J. HILL RPEO 19891 For and on behalf of WESTERA PARTNERS PTY. LTD.									
No.	DATE	REVISIONS				DES	DRN	CHK	APD	DOCUMENT CONTROL	APPROVED						



REFER DWG. S25-060-E03 FOR CONTINUATION

NOTE:
TEMPORARY EXCAVATIONS ARE TO BE SUPERVISED
BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.

ALL RETAINING WALLS LOCATED WITHIN THE SITE
TO STABILISE CUT ARE TO BE WHOLLY WITHIN THE
PROPERTY BOUNDARY INCLUDING ALL ASSOCIATED
FOOTINGS AND SUB-SOIL DRAINAGE.

CONTRACTOR TO USE EXCAVATION TECHNIQUE THAT
WILL PREVENT SUBSIDANCE WITHIN NEIGHBOURING
PROPERTIES IN ACCORDANCE WITH GEOTECHNICAL
ENGINEERS REPORT AND ADVICE ON SITE.

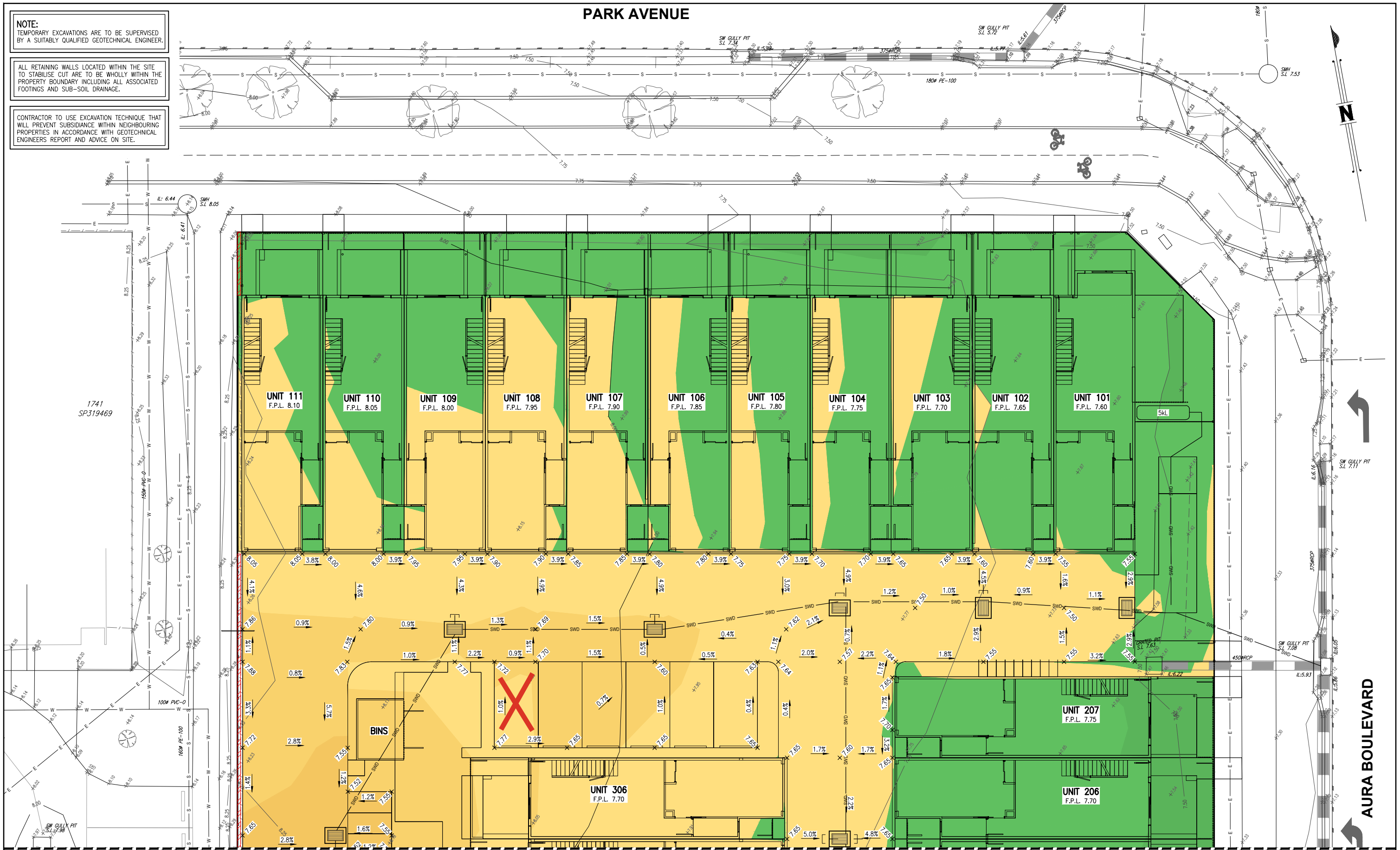
EARTHWORKS PLAN
SCALE 1:100
(A1 SIZE)

DESIGNED J.M.H.				DRAWN E.B.				CHECKED J.M.H.				APPROVED J.M.H.				DATE APRIL 2025				DOCUMENT CONTROL				APPROVED			
J.M.H. E.B. J.M.H. J.M.H.				J.M.H. J.J.D. J.M.H. J.M.H.				J.M.H. E.B. J.M.H. J.M.H.				J.M.H. E.B. J.M.H. J.M.H.				DES DRN CHK APD				J. HILL RPEO 19891 For and on behalf of WESTERA PARTNERS PTY. LTD.				www.westerapartners.com.au ABN 52 097 417 975			
D 13.08.25 ARCHITECTURAL AMENDMENT				C 28.05.25 GENERAL AMENDMENT				B 13.05.25 GENERAL AMENDMENT				A 01.05.25 ISSUE FOR APPROVAL				No. DATE				REVISIONS				PROJECT PROPOSED RESIDENTIAL DEVELOPMENT			
																								LOCATION LOT 4 on SP347407 8014 PARK AVE, NIRIMBA			
																								TITLE EARTHWORKS PLAN 01 of 02			
																								CLIENT NIRIMBA BY VANTAGE PTY LTD			
																								DRAWING STATUS FOR APPROVAL			
																								DRAWING NUMBER S25-060-E02			
																								SHEET NUMBER 02 OF 04			
																								REVISION D			

NOTE:
TEMPORARY EXCAVATIONS ARE TO BE SUPERVISED
BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.

ALL RETAINING WALLS LOCATED WITHIN THE SITE
TO STABILISE CUT ARE TO BE WHOLLY WITHIN THE
PROPERTY BOUNDARY INCLUDING ALL ASSOCIATED
FOOTINGS AND SUB-SOIL DRAINAGE.

CONTRACTOR TO USE EXCAVATION TECHNIQUE THAT
WILL PREVENT SUBSIDANCE WITHIN NEIGHBOURING
PROPERTIES IN ACCORDANCE WITH GEOTECHNICAL
ENGINEERS REPORT AND ADVICE ON SITE.



REFER DWG. S25-060-E02 FOR CONTINUATION

EARTHWORKS PLAN

SCALE 1:100
(A1 SIZE)

DESIGNED J.M.H.				DRAWN E.B.				CHECKED J.M.H.				APPROVED J.M.H.			
J.M.H. E.B. J.M.H. J.M.H.				J.M.H. J.J.D. J.M.H. J.M.H.				J.M.H. E.B. J.M.H. J.M.H.				J.M.H. E.B. J.M.H. J.M.H.			
DES				DRN				CHK				APD			
No.				DATE				REVISIONS				DOCUMENT CONTROL			
D				13.08.25				ARCHITECTURAL AMENDMENT							
C				28.05.25				GENERAL AMENDMENT							
B				13.05.25				GENERAL AMENDMENT							
A				01.05.25				ISSUE FOR APPROVAL							
PROJECT				LOCATION				TITLE				CLIENT			
PROPOSED RESIDENTIAL DEVELOPMENT				LOT 4 on SP347407				EARTHWORKS PLAN 02 of 02				NIRIMBA BY VANTAGE PTY LTD			
DRAWING STATUS				FOR APPROVAL				DRAWING NUMBER				S25-060-E03			
SHEET NUMBER				REVISION				03 of 04				D			

S25-060-E Earthwks.dwg

LEGEND

	EXTENT OF DISTURBED AREA
	INLET PROTECTION
	-SDB--> STRAW BALE FLOW DIVERSION BANK
	-DB--> DIVERSION BANK
	-DC--> DIVERSION CHANNEL
	-CB--> COMPOST BERM
	-SF--> SEDIMENT FENCE
	-RCD--> ROCK CHECK DAM
	-CD--> CATCH DRAIN
	→ SURFACE FLOW ARROW
	-CH--> CHUTE
	-LS--> LEVEL SPREADER
	-SD--> SLOPE DRAIN
	OS OUTLET STRUCTURE
	ON GRADE GULLY PIT
	SAG GULLY PIT
	600 x 600 FIELD INLET
	900 x 600 FIELD INLET
	1050 DIA FIELD INLET
	STORMWATER LINE
	STORMWATER HEADWALL
	2C STORMWATER NUMBER

SEDIMENT CONTROL
INSTALLATION SEQUENCE

1. INSTALL SEDIMENT FENCES AND CONSTRUCTION ENTRY/EXIT, PRIOR TO SITE STRIPPING
2. INSTALL CATCH DRAINS AND CHUTE WITH ROCK CHECK DAM
3. ON-SITE EROSION AND SEDIMENT CONTROL PROTECTION MEASURES TO BE REMOVED FOLLOWING SUCCESSFUL SITE STABILISATION
4. ACCESS CHAMBER/INLET PROTECTION TO BE INSTALLED CONCURRENTLY WITH STORMWATER PIPEWORK
5. REFER TO SHEET 3 FOR ACCESS CHAMBER/INLET PROTECTION INSTALLATION PROCESS AND DETAILS
7. EARTHWORKS STAGE B TO COMMENCE UPON COMPLETION OF ALL STAGE A EARTHWORKS AND CIVIL WORKS
8. ON-SITE EROSION AND SEDIMENT CONTROL PROTECTION MEASURES TO BE REMOVED UPON COMPLETION OF CONSTRUCTION WORKS AND AS APPROVED BY THE SUPERINTENDENT

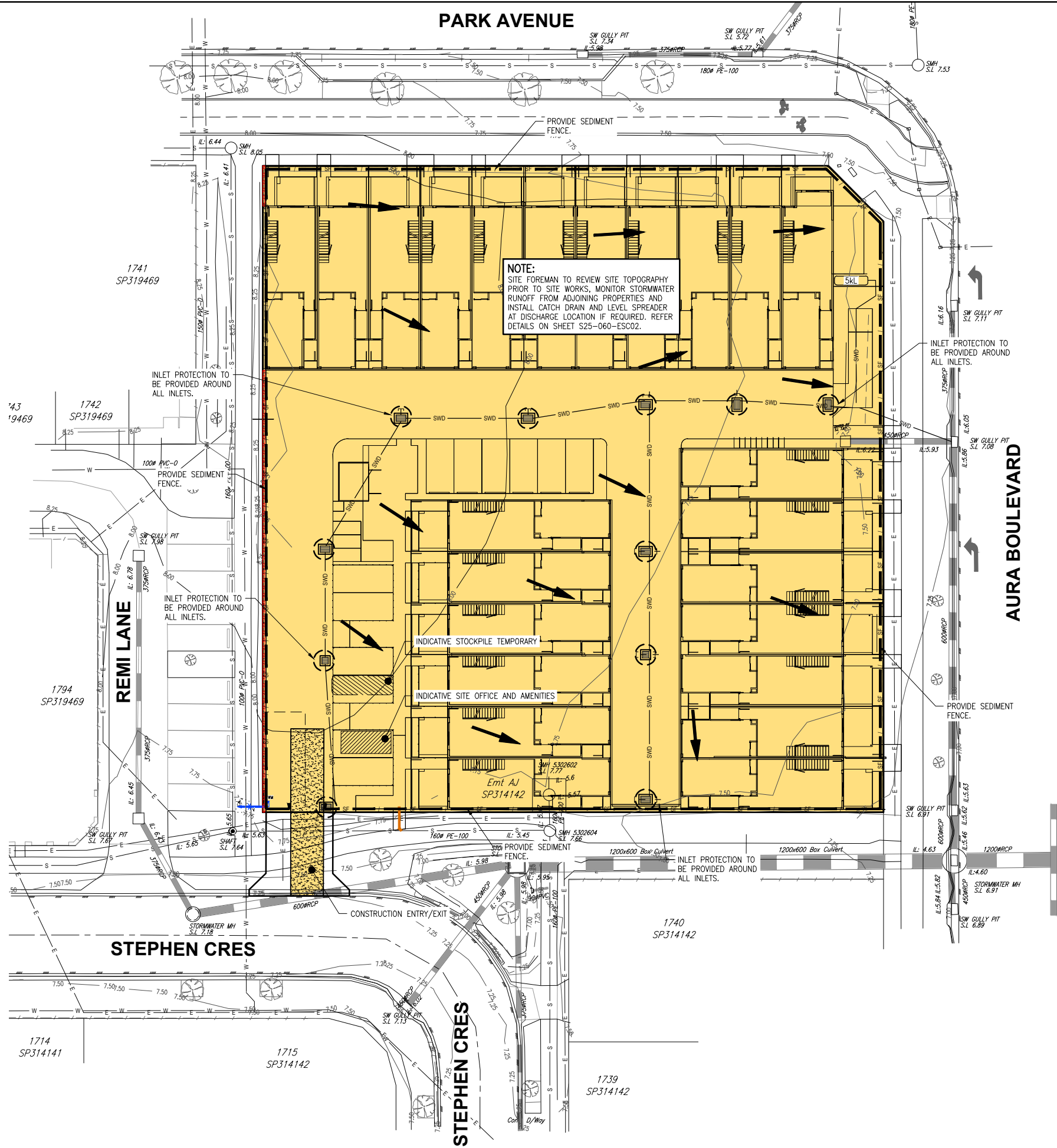
DIVERT ANY UPSLOPE "CLEAN WATER"
AROUND DISTURBANCE AREA WHERE
POSSIBLE AND AS DIRECTED ON SITE BY
SUPERVISING ENGINEER.

LOCATION OF TEMPORARY STOCKPILES
AND SITE SHEDS TO BE CONFIRMED
ONSITE PRIOR TO COMMENCEMENT OF
SITE WORKS.

DEWATERING NOTE:

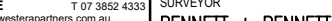
DEWATERING DURING EXCAVATION MUST BE CARRIED
OUT IN ACCORDANCE WITH **SCC** & I.E.C.A
STANDARD DRAWINGS & SPECIFICATIONS. ALL
RELEASED STORMWATER MUST NOT EXCEED THE
FOLLOWING LIMITS:

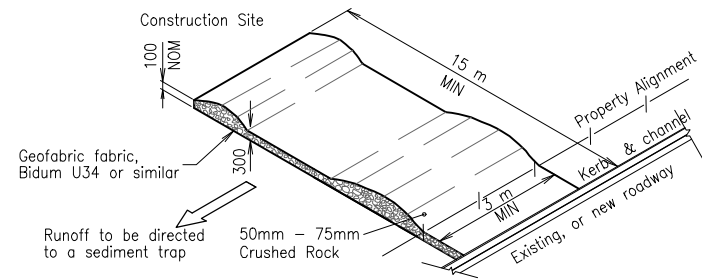
- 50mg/L OF TSS
- TURBIDITY LESS THAN 10% BACKGROUND
- pH VALUE OF 6.5-8.5



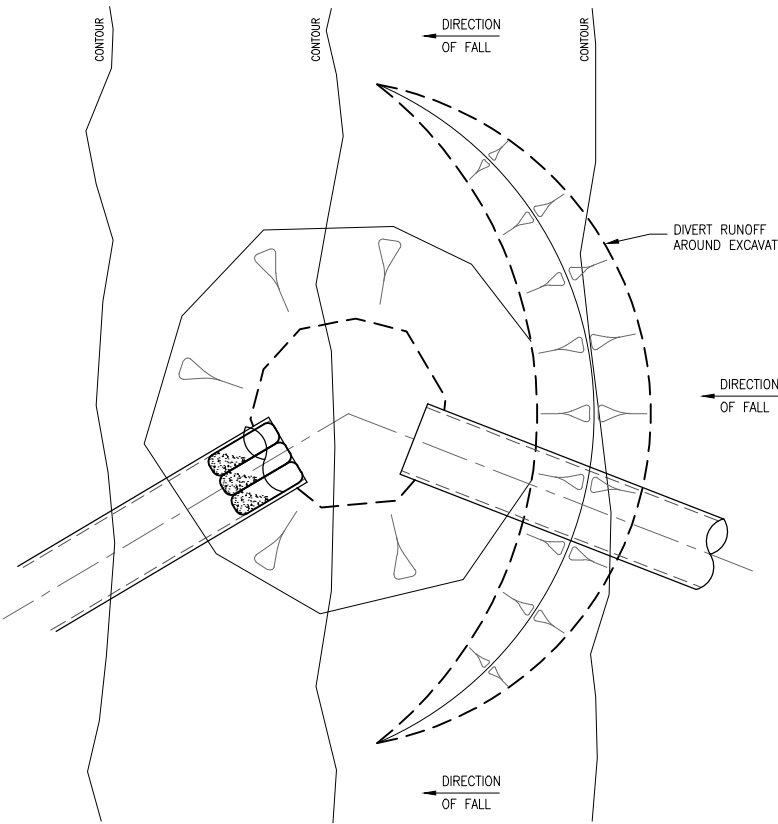
EROSION & SEDIMENT
CONTROL PLAN

SCALE 1:200
(A1 SIZE)

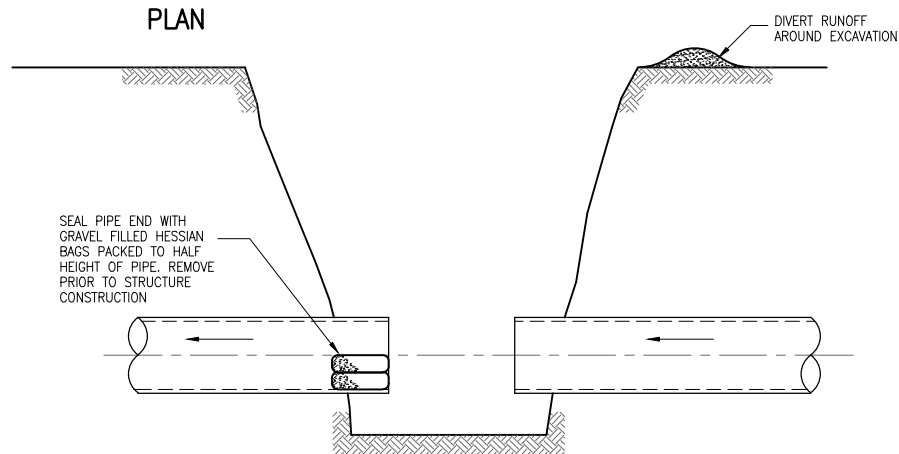
						DESIGNED J.M.H.			 WESTERA PARTNERS STRUCTURAL+ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6874 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000	DATUM A.H.D. P.M. 200442 R.L. 9.861	PROJECT LOCATION TITLE CLIENT	PROPOSED RESIDENTIAL DEVELOPMENT LOT 4 on SP347407 8014 PARK AVE, NIRIMBA EARTHWORKS EROSION AND SEDIMENT CONTROL PLAN NIRIMBA BY VANTAGE PTY LTD	DRAWING STATUS FOR APPROVAL		
D	13.08.25	ARCHITECTURAL AMENDMENT		J.M.H.	E.B.	J.M.H.	J.M.H.								DRAWN	E.B.	DRAWING NUMBER S25-060-ESC01
C	28.05.25	GENERAL AMENDMENT		J.M.H.	J.J.D	J.M.H.	J.M.H.								CHECKED	J.M.H.	
B	13.05.25	GENERAL AMENDMENT		J.M.H.	E.B.	J.M.H.	J.M.H.								APPROVED	J.M.H.	
A	01.05.25	ISSUE FOR APPROVAL		J.M.H.	E.B.	J.M.H.	J.M.H.								DATE	APRIL 2025	
No.	DATE	REVISIONS		DES	DRN	CHK	APD	DOCUMENT CONTROL	APPROVED								



CONSTRUCTION ENTRY/EXIT SEDIMENT TRAP



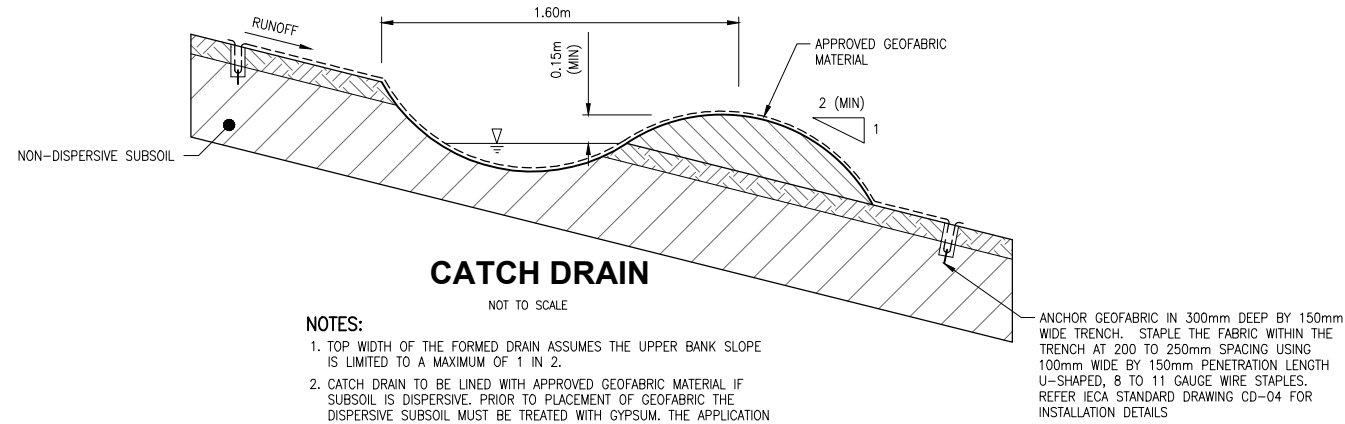
PLAN



SECTION

STAGE 1

EXCAVATION AND PIPE INSTALLATION

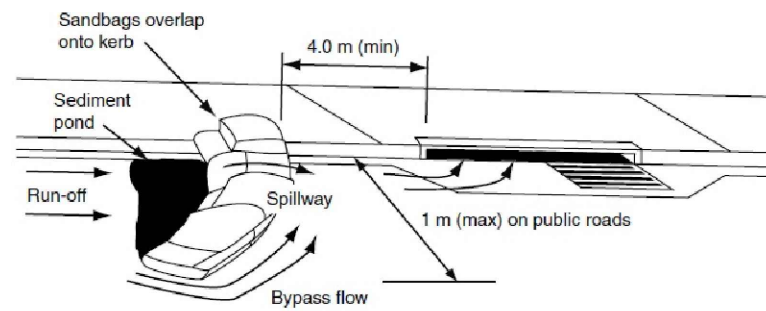


CATCH DRAIN

NOT TO SCALE

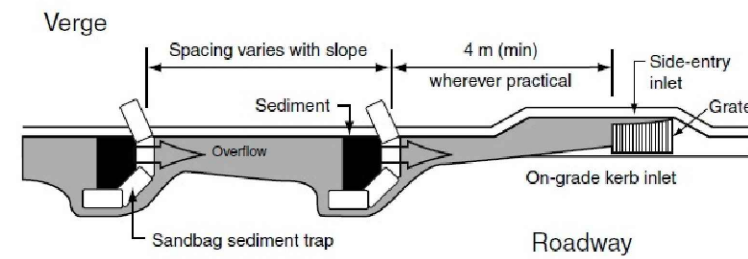
NOTES:

1. TOP WIDTH OF THE FORMED DRAIN ASSUMES THE UPPER BANK SLOPE IS LIMITED TO A MAXIMUM OF 1 IN 2.
2. CATCH DRAIN TO BE LINED WITH APPROVED GEOFABRIC MATERIAL IF SUBSOIL IS DISPERSIVE. PRIOR TO PLACEMENT OF GEOFABRIC THE DISPERSIVE SUBSOIL MUST BE TREATED WITH GYPSUM. THE APPLICATION RATE OF GYPSUM SHALL BE DETERMINED ONCE THE SOIL TESTING RESULTS OF THE SUBSOIL ARE OBTAINED.
3. PROVIDE ROCK CHECK DAMS AS PER IECA STD. DWG. RCD-01 AS REQUIRED.

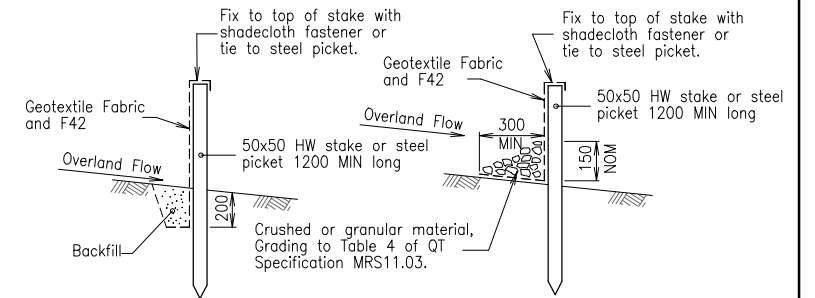


SANDBAG SEDIMENT COLLECTION DAM

REFER IECA STD. DWG. OG-01 FOR DETAILS.

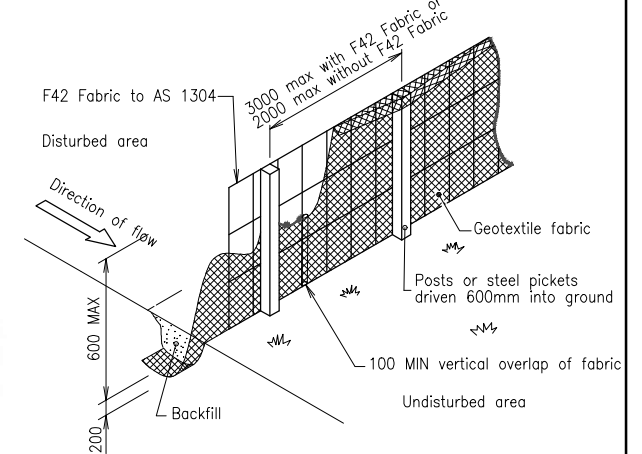


TYPICAL LAYOUT ON-GRADE KERB SEDIMENT TRAP



ALTERNATIVE 1

ALTERNATIVE 2

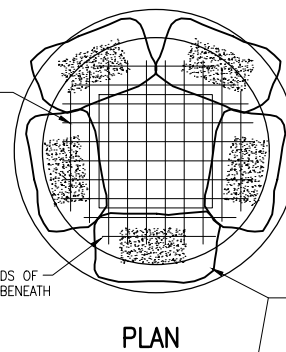


ELEVATION

SEDIMENT FENCE DETAILS

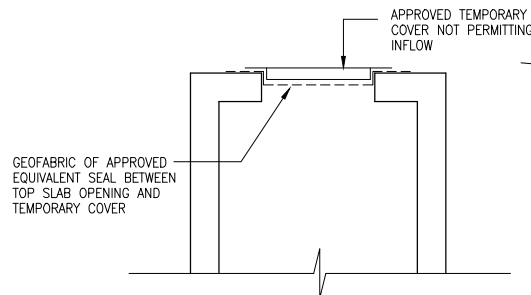
PROVIDE APPROVED GRATED COVER WITH MAXIMUM OPENINGS OF 100 x 100mm (OFFCUT REINFORCING MESH OR APPROVED EQUIVALENT) AND GEOFABRIC OVERLAY (BIDIM A34 OR EQUIVALENT.)

ENSURE ENDS OF MESH ARE BENEATH BAGS



10mm GRAVEL FILLED HESSIAN BAGS PACKED TIGHTLY AROUND ACCESS/INLET OPENING

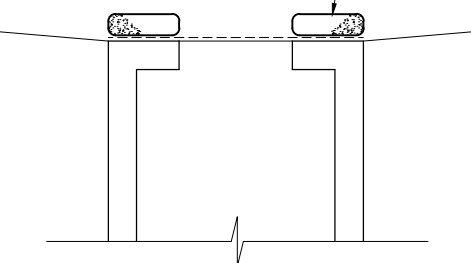
PLAN



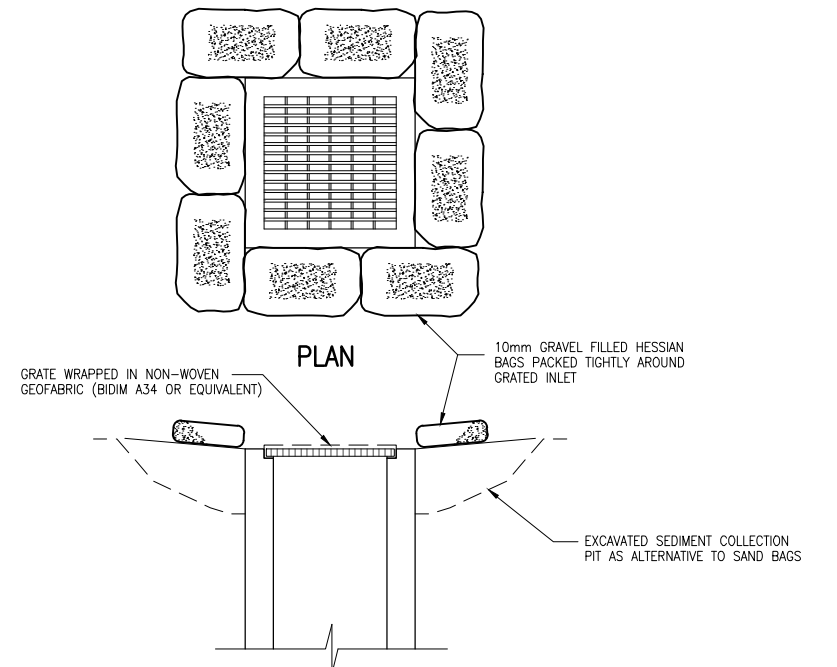
ACCESS CHAMBER
SECTION

STAGE 2

STRUCTURE COMPLETE UP TO TOP SLAB



INLET STRUCTURE
SECTION

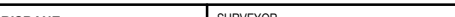


INLET STRUCTURE
SECTION

STAGE 3

STRUCTURE COMPLETE

ACCESS CHAMBER / INLET STRUCTURE PROTECTION

				DESIGNED J.M.H.					 WESTERA PARTNERS STRUCTURAL+GEO+ENVIRONMENTAL ENGINEERS www.westerapartners.com.au ABN 52 097 417 975	BRISBANE T 07 3852 4333 E brisbane@westerapartners.com.au GOLD COAST T 07 5571 1599 E goldcoast@westerapartners.com.au SUNSHINE COAST T 07 5391 3777 E sunshinecoast@westerapartners.com.au NORTHERN NSW T 02 6674 8047 E nsw@westerapartners.com.au CENTRAL VICTORIA T 03 5441 0922 E centralvic@westerapartners.com.au	SURVEYOR BENNETT + BENNETT PHONE 07 5631 8000 DATUM A.H.D. P.M. 200442 R.L. 9.861 USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. IF A DISCREPANCY ARISES CHECK WITH THE PROJECT ENGINEER AND/OR SUPERVISING AUTHORITY. DO NOT WORK FROM REDUCED SCALE DRAWINGS (A1-A3 SIZE PAPER). COPYRIGHT OF ALL DRAWINGS & WORKS EXECUTED FROM THEM IS VESTED IN WESTERA PARTNERS AND USE OF THERE FOR WITHOUT PERMISSION IS STRICTLY PROHIBITED IF IT IS THE BUILDERS RESPONSIBILITY TO ENSURE ALL WORKS ARE CARRIED OUT WITH DUE CARE AND DILIGENCE TO COMPLY WITH THE CONTRACT DOCUMENTS.	PROJECT LOCATION PROPOSED RESIDENTIAL DEVELOPMENT LOT 4 on SP347407 8014 PARK AVE, NIRIMBA TITLE EROSION AND SEDIMENT CONTROL DETAILS CLIENT NIRIMBA BY VANTAGE PTY LTD	DRAWING STATUS FOR APPROVAL	
				DRAWN E.B.									DRAWING NUMBER S25-060-ESC02	
				CHECKED J.M.H.										
				APPROVED J.M.H.										
				DATE APRIL 2025				J. HILL RPEQ 19891 For and on behalf of WESTERA PARTNERS PTY. LTD.						
				DES DRN CHK APD				APPROVED						
				REVISIONS										
				A 01.05.25 ISSUE FOR APPROVAL										
				No. DATE										

GENERAL NOTES

- THE CONSULTING ENGINEER AND/OR COUNCIL INSPECTOR MAY ISSUE INSTRUCTIONS TO THE CONTRACTOR REGARDING EROSION AND SEDIMENT CONTROL THAT MAY VARY TO THE MEASURES SHOWN ON THIS DRAWING DUE TO CONSTRUCTION METHODOLOGIES AND VARYING SITE CONDITIONS.
- A SITE SPECIFIC GEOTECHNICAL INVESTIGATION SHALL BE CARRIED OUT PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE GEOTECHNICAL INVESTIGATION SHALL BE COMPLETED IN ACCORDANCE WITH SUNSHINE COAST COUNCILS SOIL SAMPLING AND TESTING GUIDELINE FOR EROSION POTENTIAL. THE EROSION AND SEDIMENT CONTROL MEASURES ON THIS DRAWING MAY BE ALTERED TO SUIT THE RESULTS OF THE GEOTECHNICAL INVESTIGATION AS DIRECTED BY THE CONSULTING ENGINEER.
- THIS ESCP DOES NOT OUTLINE ACID SULPHATE SOIL (ASS) MANAGEMENT REQUIREMENTS. IF ENCOUNTERED, ASS SHALL BE MANAGED IN ACCORDANCE WITH AN APPROVED ASS MANAGEMENT PLAN.
- SEDIMENT BASIN OPERATION AND MAINTENANCE SHALL BE IN ACCORDANCE WITH SUNSHINE COAST COUNCIL'S SEDIMENT BASIN DESIGN GUIDELINES.
- TREATMENT AND DOSING RATES FOR APPROVED FLOCCULATING AGENTS TO BE DETERMINED FOLLOWING GEOTECHNICAL INVESTIGATION OF ON SITE SOILS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SEDIMENT CONTROL DEVICES IN A FUNCTIONAL ORDER.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MUST BE IMPLEMENTED AND A REVISED EROSION AND SEDIMENT CONTROL PROGRAM (ESCP) MUST BE SUBMITTED FOR APPROVAL BY THE SUPERINTENDENT AND INSPECTING ENGINEER IF CONSTRUCTION METHODOLOGIES OR SITE CONDITIONS VARY FROM THOSE CONSIDERED WITHIN THE ESCP. A REVISED ESCP IS ALSO REQUIRED IN THE EVENT THAT THE IMPLEMENTED WORKS FAIL TO ACHIEVE THE STATED 'OBJECTIVE' OF THE ESCP, THE LOCAL GOVERNMENT ESC STANDARD, OR THE STATE'S ENVIRONMENTAL PROTECTION REQUIREMENTS.
- IN CIRCUMSTANCES WHERE IT IS CONSIDERED NECESSARY TO PREPARE AN AMENDED ESCP, AND WHERE THE DELIVERY OF SUCH AN AMENDED ESCP IS NOT IMMINENT, THEN ALL NECESSARY NEW OR MODIFIED EROSION AND SEDIMENT CONTROL WORKS MUST BE IN ACCORDANCE WITH THE I.E.C.A. TECHNICAL NOTES AND DRAWINGS AS DIRECTED BY THE SUPERINTENDENT AND INSPECTING ENGINEER. UPON APPROVAL OF THE AMENDED ESCP, ALL WORKS MUST BE IMPLEMENTED IN ACCORDANCE WITH THE AMENDED PLAN.
- ALL CONSTRUCTION AND MAINTENANCE IS TO BE CARRIED OUT IN ACCORDANCE WITH THE LOCAL AUTHORITIES SPECIFICATIONS AND THE I.E.C.A. TECHNICAL NOTES AND DRAWINGS TO THE SATISFACTION OF THE SUPERINTENDENT AND LOCAL AUTHORITY. THIS ESCP IS BASED ON THE WORKS OUTLINED IN THE CIVIL ENGINEERING DRAWINGS BY WESTERA PARTNERS DATED APRIL 2025, PROJECT NO. S25-060.

LAND CLEARING

- ANY BULK CLEARING AND GRUBBING OF THE SITE MUST BE IMMEDIATELY FOLLOWED BY SPECIFIED STABILISATION MEASURES (e.g. TEMPORARY GRASSING OR MULCHING) PRIOR TO COMMENCEMENT OF EACH STAGE OF CONSTRUCTION WORKS.
- DISTURBANCE TO NATURAL WATERCOURSES (INCLUDING BED AND BANKS) AND THEIR ASSOCIATED RIPARIAN ZONES MUST BE LIMITED TO THE MINIMUM PRACTICABLE.
- NO LAND CLEARING SHALL BE UNDERTAKEN UNLESS PRECEDED BY THE INSTALLATION OF ADEQUATE DRAINAGE AND SEDIMENT CONTROL MEASURES.
- LAND CLEARING MUST BE LIMITED TO 5M FROM THE EDGE OF PROPOSED CONSTRUCTED WORKS, 2M OF ESSENTIAL CONSTRUCTION TRAFFIC ROUTES, AND A TOTAL OF 10M WIDTH FOR CONSTRUCTION ACCESS, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
- PRIOR TO LAND CLEARING, AREAS OF PROTECTED VEGETATION MUST BE CLEARLY IDENTIFIED AND PROTECTED FROM CONSTRUCTION ACTIVITY FOR THE PURPOSE OF MINIMISING THE RISK OF UNNECESSARY LAND CLEARING.
- LAND CLEARING SHALL BE LIMITED TO THE MINIMUM PRACTICABLE DURING PERIODS WHEN SOIL EROSION DUE TO WIND, RAIN OR SURFACE WATER IS POSSIBLE.

SITE ACCESS

- PRIOR TO THE COMMENCEMENT OF SITE WORKS, THE LOCATION OF THE SITE ACCESS POINT MUST BE VERIFIED WITH THE SUPERINTENDENT.
- SITE EXIT POINTS MUST BE APPROPRIATELY MANAGED TO MINIMISE THE RISK OF SEDIMENT BEING TRACKED ONTO SEALED, PUBLIC ROADWAYS.
- THE PUBLIC ROAD AT THE SITE ENTRY/EXIT POINT MUST BE KEPT CLEAN OF SEDIMENT. DIRTY ROADS MUST BE BROOMED IMMEDIATELY, NOT WASHED OFF INTO COUNCILS STORMWATER SYSTEM.
- STORMWATER RUNOFF FROM ACCESS ROADS AND STABILISED ENTRY/EXIT POINTS MUST DRAIN TO AN APPROPRIATE SEDIMENT CONTROL DEVICE.
- WHEEL – WASH OR SPRAY UNIT MAY BE REQUIRED DURING WET WEATHER.

SOIL AND STOCKPILE MANAGEMENT

- STOCKPILES OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, MUST BE:
 - APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
 - LOCATED AT LEAST 2M FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
 - LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
 - PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 5 DAYS DURING THOSE MONTHS THAT HAVE A EXTREME EROSION RISK.
- A SUITABLE FLOW DIVERSION SYSTEM MUST BE ESTABLISHED IMMEDIATELY UP-SLOPE OF A STOCKPILE OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, IF THE UP-SLOPE CATCHMENT AREA DRAINING TO THE STOCKPILE EXCEEDS 1500M2.

SITE MANAGEMENT

- SEDIMENT (INCLUDING CLAY, SILT, SAND, GRAVEL, SOIL, MUD, CEMENT AND CERAMIC WASTE) DEPOSITED OFF THE SITE AS A DIRECT RESULT OF AN ON-SITE ACTIVITY, MUST BE COLLECTED AND THE AREA APPROPRIATELY CLEANED/REHABILITATED AS SOON AS REASONABLE AND PRACTICABLE, AND IN A MANNER THAT GIVES APPROPRIATE CONSIDERATION TO THE SAFETY AND ENVIRONMENTAL RISKS ASSOCIATED WITH THE SEDIMENT DEPOSITION.
- ADEQUATE WASTE COLLECTION BINS MUST BE PROVIDED ON-SITE AND MAINTAINED SUCH THAT POTENTIAL AND ACTUAL ENVIRONMENTAL HARM RESULTING FROM SUCH MATERIAL WASTE IS MINIMISED.
- CONCRETE WASTE AND CHEMICAL PRODUCTS, INCLUDING PETROLEUM AND OIL-BASED PRODUCTS, MUST BE PREVENTED FROM ENTERING AN INTERNAL WATER BODY, OR AN EXTERNAL DRAIN, STORMWATER SYSTEM, OR WATER BODY.
- ALL FLAMMABLE AND COMBUSTIBLE LIQUIDS, INCLUDING ALL LIQUID CHEMICALS IF SUCH CHEMICALS COULD POTENTIALLY BE WASHED OR DISCHARGED FROM THE SITE, ARE STORED AND HANDLED ON-SITE IN ACCORDANCE WITH RELEVANT STANDARDS SUCH AS AS1940 THE STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.
- TRENCHES NOT LOCATED WITHIN ROADWAYS MUST BE BACKFILLED, CAPPED WITH TOPSOIL, AND COMPACTED TO A LEVEL AT LEAST 75MM ABOVE ADJOINING GROUND LEVEL AND APPROPRIATELY STABILISED.
- ALL STORMWATER, SEWER LINE AND OTHER SERVICE TRENCHES, NOT LOCATED WITHIN ROADWAYS, MUST BE MULCHED AND SEEDED, OTHER OTHERWISE APPROPRIATELY STABILISED WITHIN 7 DAYS AFTER BACKFILL.
- NO MORE THAN 150M OF A STORMWATER, SEWER LINE OR OTHER SERVICE TRENCH MUST TO BE OPEN AT ANY ONE TIME.
- SITE SPOIL MUST BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.

DRAINAGE CONTROL

- ALL DRAINAGE CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED ESCP.
- WHEREVER REASONABLE AND PRACTICABLE, STORMWATER RUNOFF ENTERING THE SITE FROM EXTERNAL AREAS, AND NON-SEDIMENT LADEN (CLEAN) STORMWATER RUNOFF ENTERING A WORK AREA OR AREA OF SOIL DISTURBANCE, MUST BE DIVERTED AROUND OR THROUGH THAT AREA IN A MANNER THAT MINIMISES SOIL EROSION AND THE CONTAMINATION OF THAT WATER FOR ALL DISCHARGES UP TO THE SPECIFIED DESIGN STORM DISCHARGE.
- DURING THE CONSTRUCTION PERIOD, ALL REASONABLE AND PRACTICABLE MEASURES MUST BE IMPLEMENTED TO CONTROL FLOW VELOCITIES IN SUCH A MANNER THAN PREVENTS SOIL EROSION ALONG DRAINAGE PATHS AND AT THE ENTRANCE AND EXIT OF ALL DRAINS AND DRAINAGE PIPES DURING ALL STORMS UP TO THE RELEVANT DESIGN STORM DISCHARGE.
- TO THE MAXIMUM DEGREE REASONABLE AND PRACTICABLE, ALL WATERS DISCHARGED DURING THE CONSTRUCTION PHASE MUST DISCHARGE ONTO STABLE LAND, IN A NON-EROSIVE MANNER, AND AT A LEGAL POINT OF DISCHARGE.
- WHEREVER REASONABLE AND PRACTICABLE, "CLEAN" SURFACE WATERS MUST BE DIVERTED AWAY FROM SEDIMENT CONTROL DEVICES AND ANY UNTREATED, SEDIMENT-LADEN WATERS.
- DURING THE CONSTRUCTION PERIOD, ROOF WATER MUST BE MANAGED IN A MANNER THAT MINIMISES SOIL EROSION THROUGHOUT THE SITE, AND SITE WETNESS WITHIN ACTIVE WORK AREAS.
- DEWATERING DURING EXCAVATION MUST BE CARRIED OUT IN ACCORDANCE WITH SCC AND I.E.C.A. STANDARD DRAWINGS AND SPECIFICATIONS. ALL WATER DISCHARGED FROM SITE MUST BE TREATED FOR SEDIMENT AND BE APPROPRIATELY MANAGED IN A MANNER THAT DOES NOT CAUSE ENVIRONMENTAL HARM, FLOODING, DAMAGE OR NUISANCE TO NEIGHBOURING PROPERTIES.

SEDIMENT CONTROL

- ALL SEDIMENT CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED ESCP.
- OPTIMUM BENEFIT MUST BE MADE OF EVERY OPPORTUNITY TO TRAP SEDIMENT WITHIN THE WORK SITE, AND AS CLOSE AS PRACTICABLE TO ITS SOURCE.
- SEDIMENT TRAPS MUST BE INSTALLED AND OPERATED TO BOTH COLLECT AND RETAIN SEDIMENT.
- THE POTENTIAL SAFETY RISK OF A PROPOSED SEDIMENT TRAP TO SITE WORKERS AND THE PUBLIC MUST BE GIVEN APPROPRIATE CONSIDERATION, ESPECIALLY THOSE DEVICES LOCATED WITHIN PUBLICLY ACCESSIBLE AREAS.
- ALL REASONABLE AND PRACTICABLE MEASURES MUST BE TAKEN TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT FROM THE SITE.
- SUITABLE ALL-WEATHER MAINTENANCE ACCESS MUST BE PROVIDED TO ALL SEDIMENT CONTROL DEVICES.
- SEDIMENT CONTROL DEVICES MUST BE DE-SILTED AND MADE FULLY OPERATIONAL AS SOON AS REASONABLE AND PRACTICABLE AFTER A SEDIMENT-PRODUCING EVENT, WHETHER NATURAL OR ARTIFICIAL, IF THE DEVICE'S SEDIMENT RETENTION CAPACITY FALLS BELOW 75% OF ITS DESIGN RETENTION CAPACITY.
- MATERIALS, WHETHER LIQUID OR SOLID, REMOVED FROM SEDIMENT CONTROL DEVICES DURING MAINTENANCE OR DECOMMISSIONING, MUST BE DISPOSED OF IN A MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
- AS-CONSTRUCTED PLANS MUST BE PREPARED FOR ALL FOR CONSTRUCTED SEDIMENT BASINS AND ASSOCIATED EMERGENCY SPILLWAYS. SUCH PLANS MUST APPROPRIATELY VERIFY THE BASIN'S DIMENSIONS, LEVELS AND VOLUMES, AND MUST BE SUBMITTED TO THE SUPERINTENDENT WITHIN 14 CALENDER DAYS OF THE CONSTRUCTION OF EACH BASIN.
- SEDIMENT BASINS AND CONTROL DEVICES MUST BE MAINTAINED AND FULLY OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL EACH DEVICE'S CATCHMENT AREA ACHIEVES 70% GROUND COVER ON ALL SOIL SURFACES.
- SETTLED SEDIMENT MUST BE REMOVED FROM SEDIMENT BASINS WHEN THE VOLUME OF THE SEDIMENT EXCEEDS THE DESIGNATED SEDIMENT STORAGE VOLUME, OR THE DESIGN MAXIMUM SEDIMENT STORAGE LEVELION.
- IN AREAS WHERE RUNOFF TURBIDITY IS TO BE CONTROLLED, EXPOSED SURFACES TO BE EITHER MULCHED, COVERED WITH EROSION CONTROL BLANKETS OR TURFED IF EARTHWORKS ARE EXPECTED TO BE DELAYED FOR MORE THAN 14 DAYS.
- STRAW BALE SEDIMENT TRAPS ARE A SECONDARY OPTION WHICH GENERALLY SHOULD NOT BE USED IF OTHER OPTIONS ARE AVAILABLE.
- SEDIMENT FENCE
 - NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW.
 - NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6 HA PER 100M LENGTH OF FENCE.
 - ONLY WOVEN FABRICS ARE TO BE USED, NON-WOVEN FABRICS ARE TO BE AVOIDED UNLESS OTHERWISE DIRCTED BY THE SUPERVISING ENGINEER.
 - WHERE FENCES NEED TO BE LOCATED ACROSS THE CONTOUR THE LAYOUT SHALL BE AS DIRECTED BY THE MANAGER.
 - FENCES ARE REQUIRED 2M MIN FROM THE TOE OF CUT AND FILL BATTERS, WHERE NOT PRACTICAL ONE FENCE CAN BE AT THE TOE WITH A SECOND FENCE 1M MIN AWAY. FENCE SHOULD NOT BE LOCATED PARALLEL WITH TOE IF CONCENTRATION OF FLOW WILL OCCUR BEHIND THE FENCE.
- ALL STORMWATER INLET STRUCTURES IN THE IMMEDIATE DOWNSTREAM VICINITY OF THE WORK AREA SHALL HAVE APPROVED INLET PROTECTION TO PREVENT INGRESS OF WATER BORNE SEDIMENTS.
- SANDBAGS TO BE INSTALLED AT REGULAR INTERVALS ON ROAD PROFILE TO REDUCE EROSION & STEM FLOWS BY ACTING AS SMALL CHECK DAMS.
- EXTRA CATCH DRAINS MAY BE CONSTRUCTED BY CONTRACTOR IN ACCORDANCE WITH THESE DRAWINGS & I.E.C.A. TECHNICAL NOTES & DRAWINGS.

SITE MONITORING AND MAINTENANCE

- ALL WATER QUALITY DATA, INCLUDING DATES OF RAINFALL, DATES OF TESTING, TESTING RESULTS AND DATES OF WATER RELEASE, MUST BE KEPT IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON-SITE FOR INSPECTION BY THE LOCAL AUTHORITY ON REQUEST.
 - AT NOMINATED INSTREAM WATER MONITORING SITES, A MINIMUM OF 3 WATER SAMPLES MUST BE TAKEN AND ANALYSED, AND THE AVERAGE RESULT USED TO DETERMINE QUALITY.
 - SEDIMENT BASIN WATER QUALITY SAMPLES MUST BE TAKEN AT A DEPTH NO GREATER THAN 200MM ABOVE THE LEVEL OF SETTLED SEDIMENT.
 - ALL ENVIRONMENTALLY RELEVANT INCIDENTS MUST BE RECORDED IN A FIELD LOG THAT MUST REMAIN ACCESSIBLE TO ALL RELEVANT REGULATORY AUTHORITIES.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATIONAL LIVES.
 - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST BE FULLY OPERATIONAL AND MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THE MAINTENANCE PERIOD AS SPECIFIED BY THE LOCAL AUTHORITY.
 - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, MUST REMOVED AFTER ACHIEVING A SATISFACTORY 'OFF-MAINTENANCE INSPECTION' BY THE LOCAL AUTHORITY.
 - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED:
 - AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE);
 - AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE);
 - WITHIN 24 HOURS OF EXPECTED RAINFALL; AND
 - WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE RUNOFF ON-SITE).
 - WASHING/FLUSHING OF SEALED ROADWAYS MUST ONLY OCCUR WHERE SWEEPING HAS FAILED TO REMOVE SUFFICIENT SEDIMENT AND THERE IS A COMPELLING NEED TO REMOVE THE REMAINING SEDIMENT (E.G. FOR SAFETY REASONS). IN SUCH CIRCUMSTANCES, ALL REASONABLE AND PRACTICABLE SEDIMENT CONTROL MEASURES MUST BE USED TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT INTO RECEIVING WATERS. ONLY THOSE MEASURES THAT WILL NOT CAUSE SAFETY AND PROPERTY FLOODING ISSUES SHALL BE EMPLOYED. SEDIMENT REMOVED FROM ROADWAYS MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
 - SEDIMENT REMOVED FROM SEDIMENT TRAPS AND PLACES OF SEDIMENT DEPOSITION MUST BE DISPOSED OF IN A LAWFUL MANNER THAT DOES NOT CAUSE ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
 - MAINTENANCE MOWING OF ALL ROAD SHOULDERS, TABLE DRAINS, BATTERS AND OTHER SURFACES LIKELY TO EXPERIENCE ACCELERATED SOIL EROSION MUST AIM TO LEAVE THE GRASS LENGTH NO SHORTER THAN 50MM WHERE REASONABLE AND PRACTICABLE.
 - MAINTENANCE MOWING MUST BE DONE IN A MANNER THAT WILL NOT DAMAGE THE PROFILE OF FORMED, SOFT EDGES, SUCH AS THE CREST OF EARTH EMBANKMENTS.
- EROSION CONTROL
- ALL EROSION CONTROL MEASURES MUST BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED ESCP.
 - THE APPLICATION OF LIQUID-BASED DUST SUPPRESSION MEASURES MUST ENSURE THAT SEDIMENT-LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD.
 - ALL TEMPORARY EARTH BANKS, FLOW DIVERSION SYSTEMS, AND EMBANKMENTS ASSOCIATED WITH CONSTRUCTED SEDIMENT BASINS MUST BE MACHINE-COMPACTED, SEEDED AND MULCHED FOR THE PURPOSE OF ESTABLISHING A TEMPORARY VEGETATIVE COVER WITHIN 10 DAYS AFTER GRADING.
 - THE CONSTRUCTION AND STABILISATION OF EARTH BATTERS STEEPER THAN 6:1 (H:V) MUST BE STAGED SUCH THAT NO MORE THAN 3 VERTICAL-METRES OF ANY BATTER IS EXPOSED TO RAINFALL AT ANY INSTANT.
 - SYNTHETIC REINFORCED EROSION CONTROL MATS AND BLANKETS MUST NOT BE PLACED WITHIN, OR ADJACENT TO, RIPARIAN ZONES AND WATERCOURSES IF SUCH MATERIALS ARE LIKELY TO CAUSE ENVIRONMENTAL HARM TO WILDLIFE OR WILDLIFE HABITATS.

SITE REHABILITATION

- ALL DISTURBED AREAS IDENTIFIED AS VERY LOW, LOW, MEDIUM, HIGH OR EXTREME RISK MUST BE SUITABLE WITHIN 30, 30, 20, 10 OR 5 DAYS RESPECTIVELY, OR PRIOR TO ANTICIPATED RAINFALL, WHICHEVER IS THE GREATER, FROM THE DAY THAT SOIL DISTURBANCES ON THE AREA HAVE BEEN FINALISED.
- A MINIMUM 60% GROUND COVER MUST BE ACHIEVED ON ALL COMPLETED EARTHWORKS EXPOSED TO ACCELERATED SOIL EROSION WITHIN 30 DAYS DURING THOSE MONTHS WHEN THE EXPECTED RAINFALL IS LESS THAN 30mm; MINIMUM 70% COVER WITHIN 30 DAYS IF BETWEEN 30 AND 45mm; MINIMUM 70% COVER WITHIN 20 DAYS IF BETWEEN 45 AND 100mm; MINIMUM 75% COVER WITHIN 10 DAYS IF BETWEEN 100 AND 225mm; AND MINIMUM 80% COVER WITHIN 5 DAYS IF GREATER THAN 225mm.
- DURING TIMES OF DECLARED WATER RESTRICTIONS, REFER TO SUNSHINE COAST COUNCIL'S 'DROUGHT CONDITIONS SPECIFICATION V2' FOR A DEEMED TO COMPLY SOLUTION TO ACHIEVING 70% GROUND COVERAGE.
- THE TYPE OF GROUND COVER APPLIED TO COMPLETED EARTHWORKS IS COMPATIBLE WITH THE ANTICIPATED LONG-TERM LAND USE, ENVIRONMENTAL RISK, AND SITE REHABILITATION MEASURES.
- UNLESS OTHERWISE DIRECTED BY THE SUPERINTENDENT OR WHERE DIRECTED BY THE APPROVED REVEGETATION PLAN, TOPSOIL MUST BE PLACED AT A MINIMUM DEPTH OF 75mm ON SLOPES 4:1 (H:V) OR FLATTER, AND 50mm ON SLOPES STEEPER THAN 4:1.
- TEMPORARY SITE STABILISATION PROCEDURES MUST COMMENCE AT LEAST 30 DAYS PRIOR TO THE NOMINATED SITE SHUTDOWN DATE. AT LEAST 70% STABLE COVER OF ALL UNSTABLE AND/OR DISTURBED SOIL SURFACES MUST BE ACHIEVED PRIOR TO COMPLETION OF WORKS. THE STABILISATION WORKS MUST NOT RELY UPON THE LONGEVITY OF NON-VEGETATES EROSION CONTROL BLANKETS, OR TEMPORARY SOIL BINDERS.
- ALL UNSTABLE OR DISTURBED SOIL SURFACES MUST BE ADEQUATELY STABILISED AGAINST EROSION (MINIMUM 70%) PRIOR TO COMMENCEMENT OF USE, OR SURVEY PLAN ENDORSEMENT.