

**PROPOSED CIVIL WORKS  
ST. MARY'S PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678  
REF: 230728**

**FOR: COLLIER'S INTERNATIONAL**

**CIVIL DRAWINGS**

## DRAWING SCHEDULE

GENERAL		LAYOUT AND LEVELS		STORMWATER AND SEWER		OTHERS	
SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE	SHEET NUMBER	SHEET TITLE
GENERAL		PLANS		PLANS		PLANS	
A0000	COVER SHEET	B1001	LAYOUT PLAN 1/3	B2001	STORMWATER AND SEWER PLAN 1/2	TP001	TURNING PATHS – SITE ACCESS
A0001	DRAWING SCHEDULE	B1002	LAYOUT PLAN 2/3	B2002	STORMWATER AND SEWER PLAN 2/2	TP002	TURNING PATHS – GARBAGE TRUCK
A0002	OVERALL SITE PLAN	B1003	LAYOUT PLAN 3/3	B2101	STORMWATER PIT SCHEDULE	TP003	TURNING PATHS – FIRE APPLIANCE
		B1101	ACCESS DRIVEWAY LAYOUT PLAN	B2201	ROOF DRAINAGE PLAN	SUB01	OVERALL PROPOSED SUBDIVISION LAYOUT
		B1102	LONG SECTION – ENTRANCE DWY LEFT			SUB02	PROPOSED SUBDIVISION LOT 1 DETAILED PLAN
		B1103	LONG SECTION – ENTRANCE DWY RIGHT				
		B1201	DEPTH CONTOUR PLAN 1/2				
		B1202	DEPTH CONTOUR PLAN 2/2				
		B1301	CARPARK LAYOUT PLAN				
		B1401	PAVEMENT PLAN				
						DETAILS	
						DE1001	PAVEMENT DETAILS
						DE2001	STORMWATER DETAILS 1/5
						DE2002	STORMWATER DETAILS 2/5
						DE2003	STORMWATER DETAILS 3/5
						DE2004	STORMWATER DETAILS 4/5
						DE2005	STORMWATER DETAILS 5/5
						DE3001	RETAINING WALL DETAILS
						DE4001	SEDIMENT AND EROSION CONTROL DETAILS



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

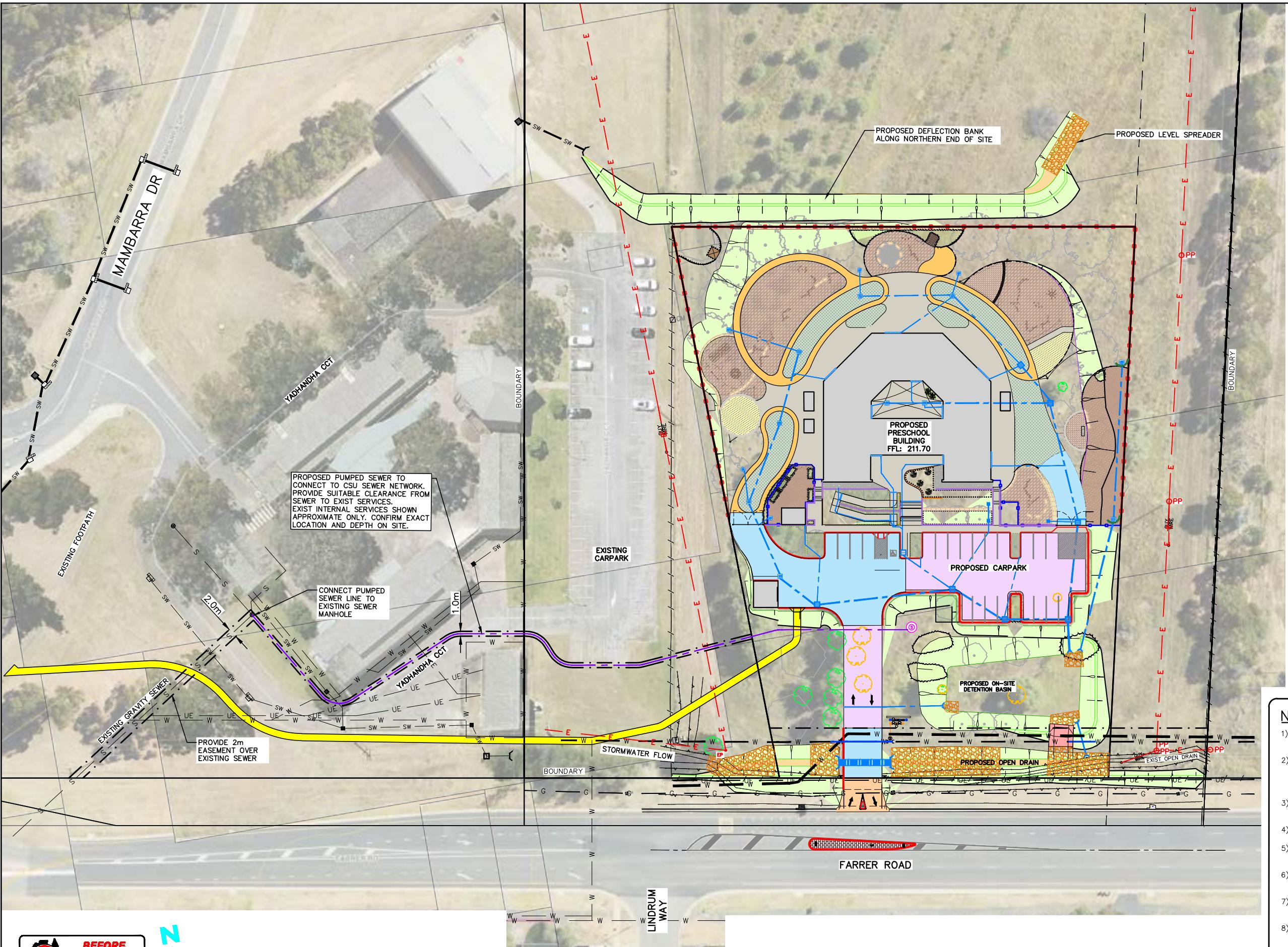


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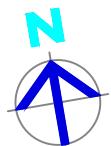
Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: DRAWING SCHEDULE  
Client: COLLIER'S INTERNATIONAL  
Scale: N/A  
Design: S.X  
Drawn: N.T  
Date: MAR 2024

Project Number: 230728  
Checked:  
Approved:  
Sheet Number: A0001  
Revision Number: P17



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0 4 10 15 20 30 40  
SCALE 1:400 (A1) METRES

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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

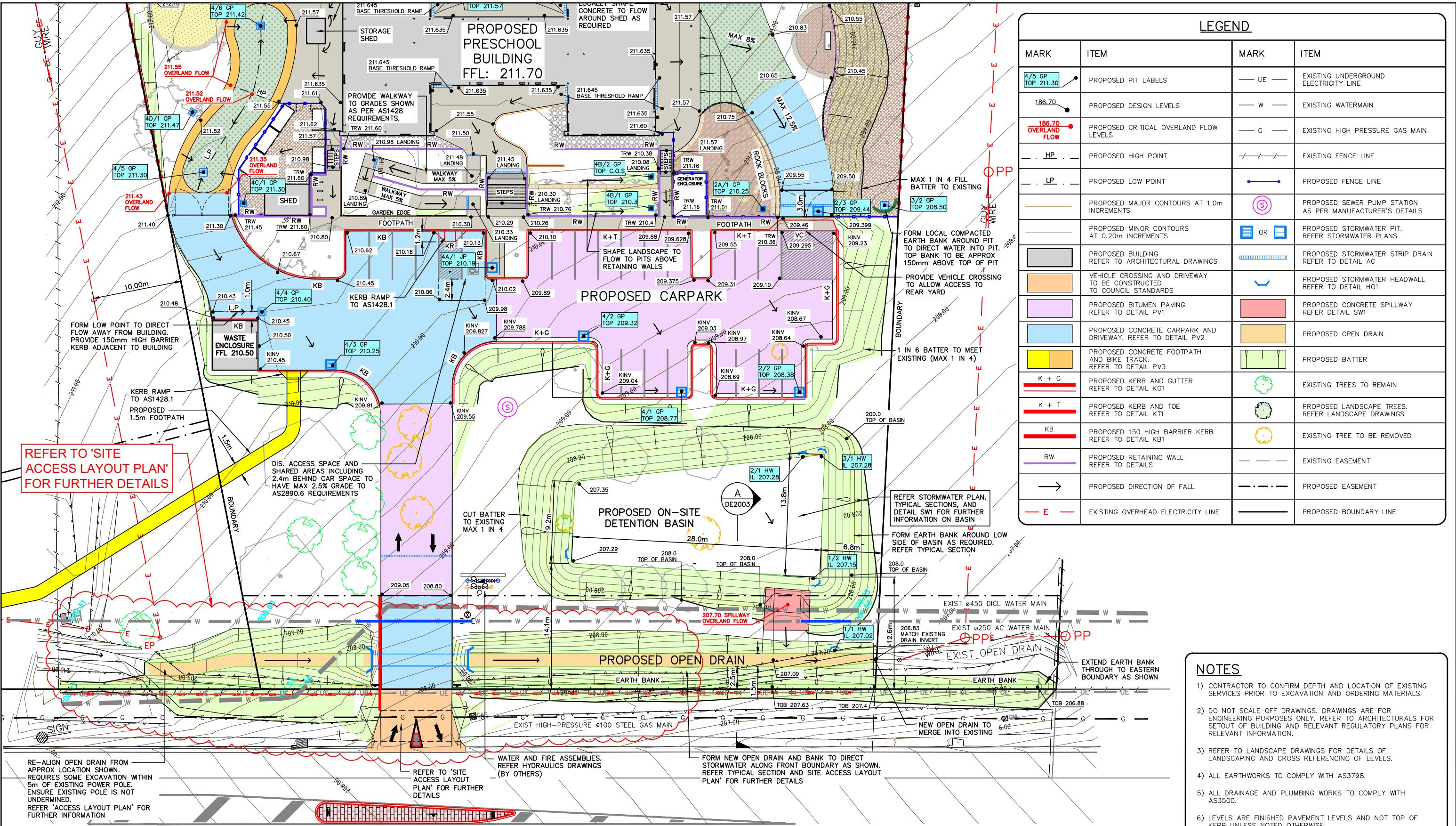


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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: OVERALL SITE PLAN  
Client: COLLIER'S INTERNATIONAL  
Scale: 1: 400 (A1) 1: 800 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Approved: Sheet Number: A0002  
Revision Number: P17



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FARRER ROAD

0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



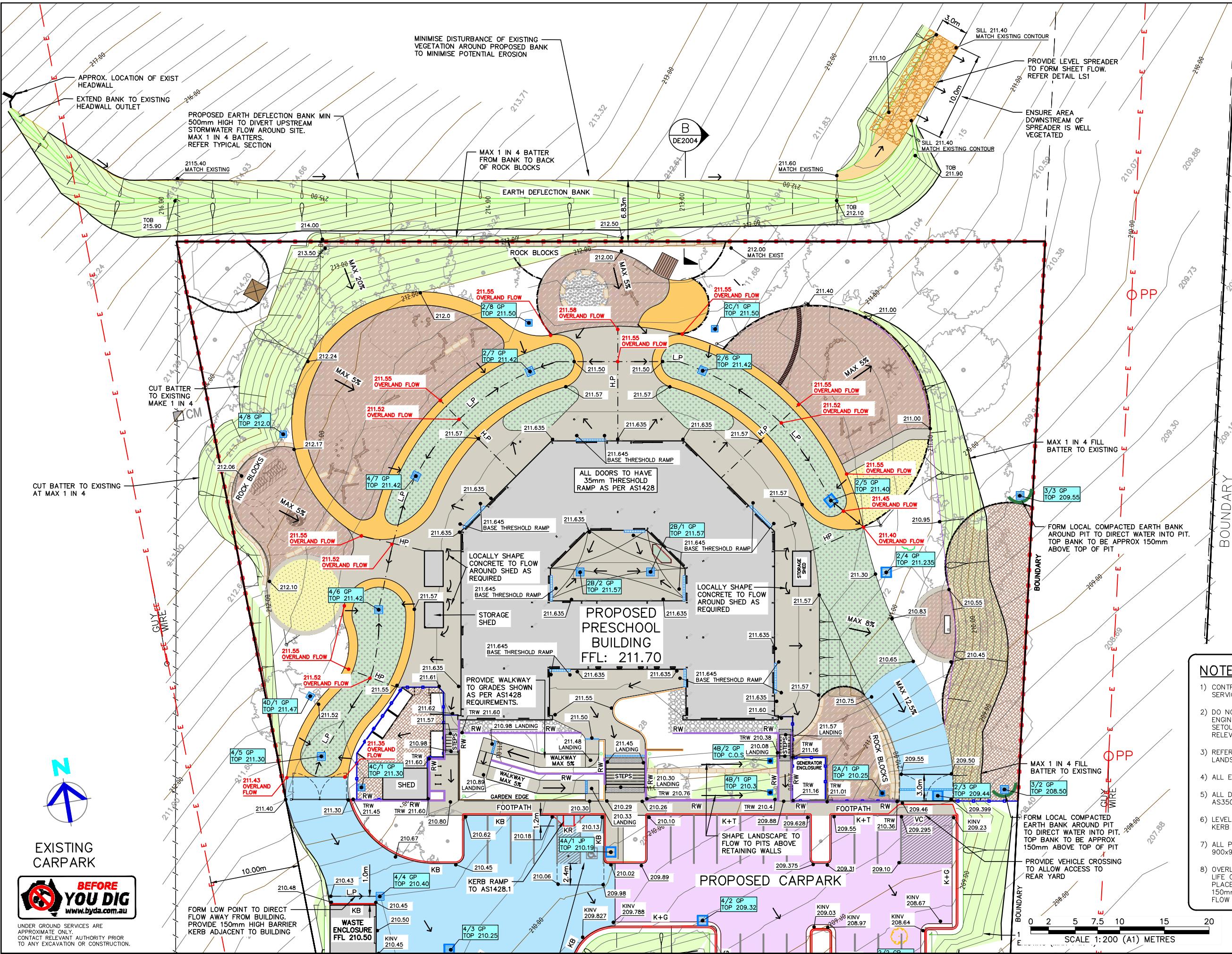
**XEROS PICCOLO**  
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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: LAYOUT PLAN 1/3  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:200 (A1) 1:400 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Approved: Sheet Number: B1001 Revision Number: P17



LEGEND	
MARK	ITEM
 	PROPOSED PIT LABELS
 	PROPOSED DESIGN LEVELS
 	PROPOSED CRITICAL OVERLAND FLOW LEVELS
	PROPOSED HIGH POINT
	PROPOSED LOW POINT
	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
	PROPOSED BATTER
	PROPOSED KERB AND GUTTER REFER TO DETAIL KG1
	PROPOSED KERB AND TOE REFER TO DETAIL KT1
	PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1
	PROPOSED RETAINING WALL REFER TO DETAILS
	PROPOSED DIRECTION OF FALL
 	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
	PROPOSED STORMWATER STRIP DRAIN REFER TO DETAIL AC
	PROPOSED CONCRETE SPILLWAY REFER DETAIL SW1
	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
	EXISTING TREE TO BE REMOVED
	EXISTING EASEMENT
	PROPOSED BOUNDARY LINE

## NOTES

- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
- 2) DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO ARCHITECTURALS FOR SETOUT OF BUILDING AND RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION
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No.	DATE	DETAILS



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Project:  
**PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2650**

Sheet Title: LAYOUT PLAN 2/3

Client: COLLIERS INTERNATIONAL

Scale: 1:200 (A1) 1:400 (A3)

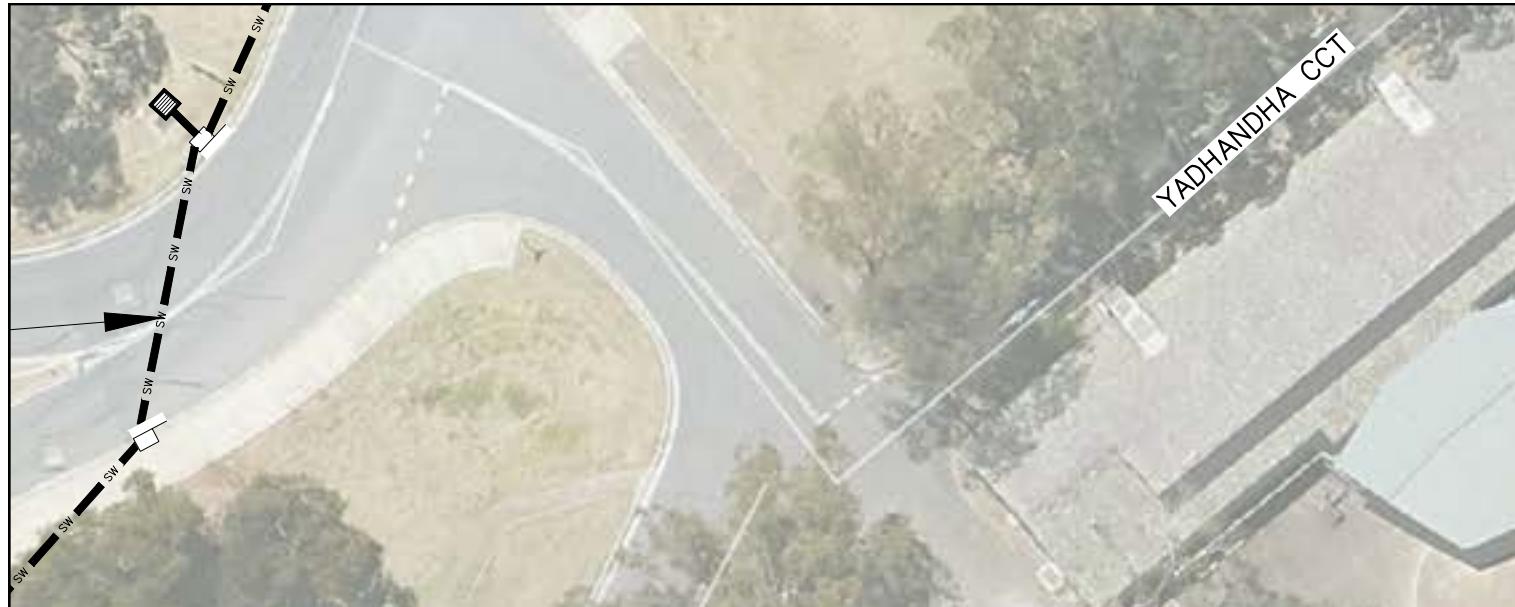
Design: S.Y. Drawn: N.T. Date: MAR 2024

Project Number:

230728

Sheet  
Number: Rev  
N

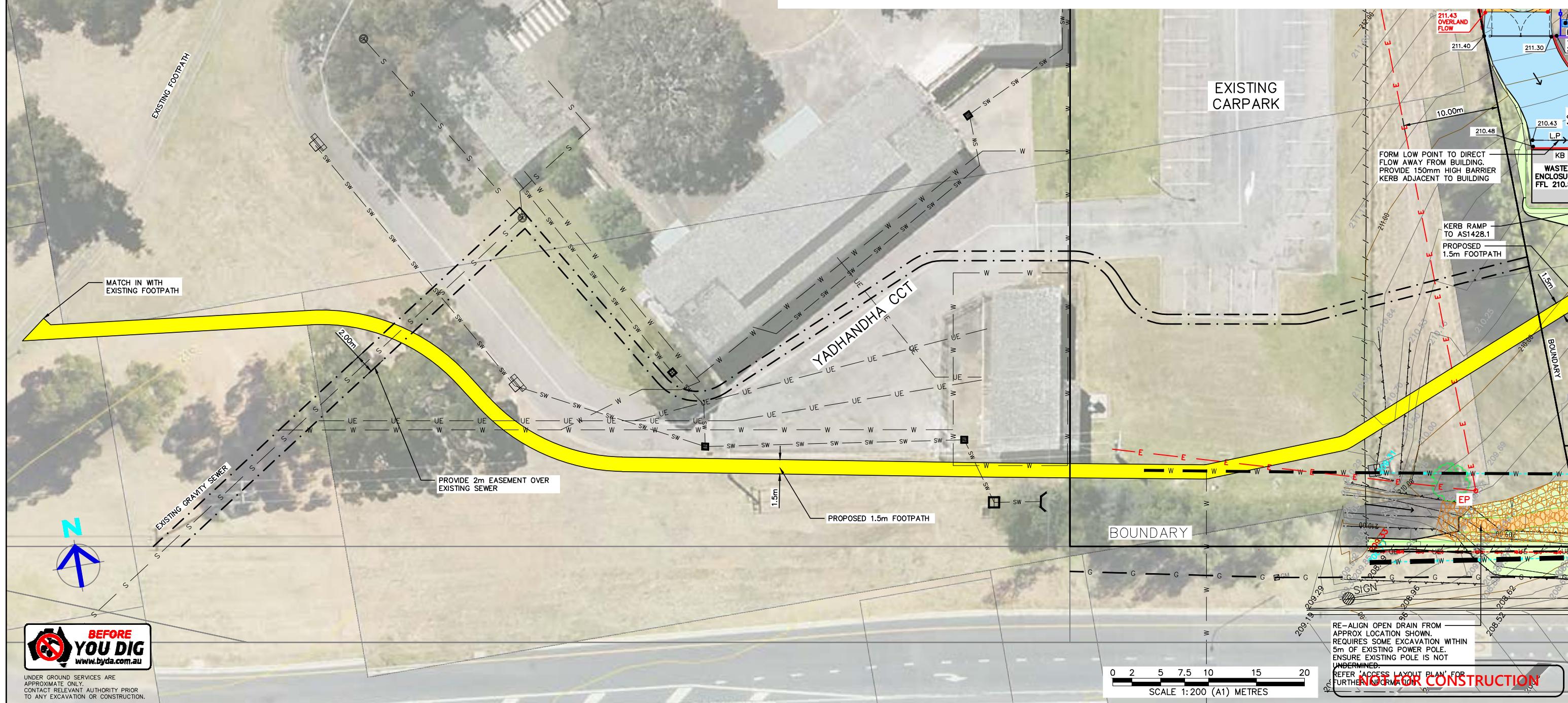
Number: B1002



LEGEND			
MARK	ITEM	MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS	→	PROPOSED DIRECTION OF FALL
186.70	PROPOSED DESIGN LEVELS	K + G	PROPOSED KERB AND GUTTER REFER TO DETAIL KG1
186.70 OVERLAND FLOW	PROPOSED CRITICAL OVERLAND FLOW LEVELS	KB	PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1
—	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS	□ OR □	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
—	PROPOSED MINOR CONTOURS AT 0.20m INCREMENTS	●	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
■	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS	○	EXISTING TREE TO BE REMOVED
■	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2	— — —	EXISTING EASEMENT
■ ■	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3	—	PROPOSED BOUNDARY LINE

**NOTES**

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- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.



P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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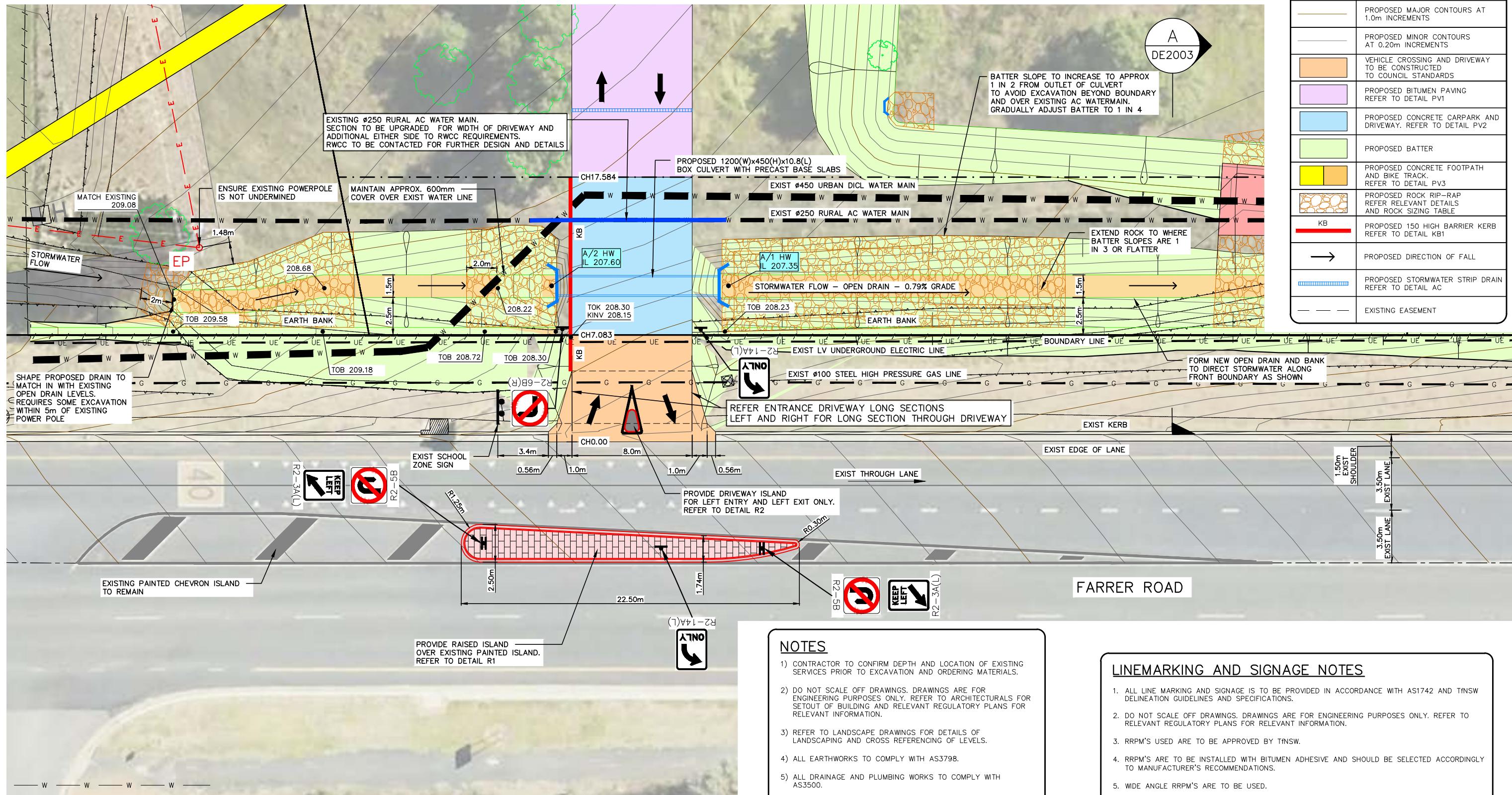
Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: LAYOUT PLAN 3/3  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:200 (A1) 1:400 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

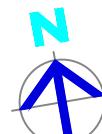
Project Number: 230728  
Approved: Sheet Number: B1003 Revision Number: P17

NOTE: ALL EXIST SERVICES IN NATURESTRIP ON FARRER ROAD HAVE BEEN LOCATED USING VACUUM TRUCK POTHOLING TO CONFIRM EXACT LOCATIONS AND DEPTHS

LEGEND	
MARK	ITEM
 	PROPOSED PIT LABELS
	PROPOSED DESIGN LEVELS
	PROPOSED MAJOR CONTOURS AT 1.0m INCREMENTS
	PROPOSED MINOR CONTOURS AT 0.20m INCREMENTS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED BATTER
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
	PROPOSED ROCK RIP-RAP REFER RELEVANT DETAILS AND ROCK SIZING TABLE
 KB	PROPOSED 150 HIGH BARRIER KERB REFER TO DETAIL KB1
	PROPOSED DIRECTION OF FALL
	PROPOSED STORMWATER STRIP DRAIN REFER TO DETAIL AC
	EXISTING EASEMENT



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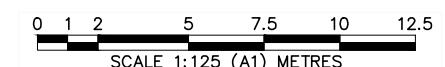


**NOTES**

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- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
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- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

**LINEMARKING AND SIGNAGE NOTES**

1. ALL LINE MARKING AND SIGNAGE IS TO BE PROVIDED IN ACCORDANCE WITH AS1742 AND TfNSW DELINEATION GUIDELINES AND SPECIFICATIONS.
2. DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
3. RRPM'S USED ARE TO BE APPROVED BY TfNSW.
4. RRPM'S ARE TO BE INSTALLED WITH BITUMEN ADHESIVE AND SHOULD BE SELECTED ACCORDINGLY TO MANUFACTURER'S RECOMMENDATIONS.
5. WIDE ANGLE RRPM'S ARE TO BE USED.
6. POSITION AND SPACING OF RRPM'S AS PER TfNSW GUIDELINES.
7. UNLESS OTHERWISE NOTED, SIGNS ARE TO BE LOCATED HORIZONTALLY FROM THE EDGE OF ROAD OR FROM THE FACE OF KERB AS PER AS1742.2.



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S
No.	DATE	DETAILS	



**XEROS PICCOLO**  
CONCLUDING ENGINEERING

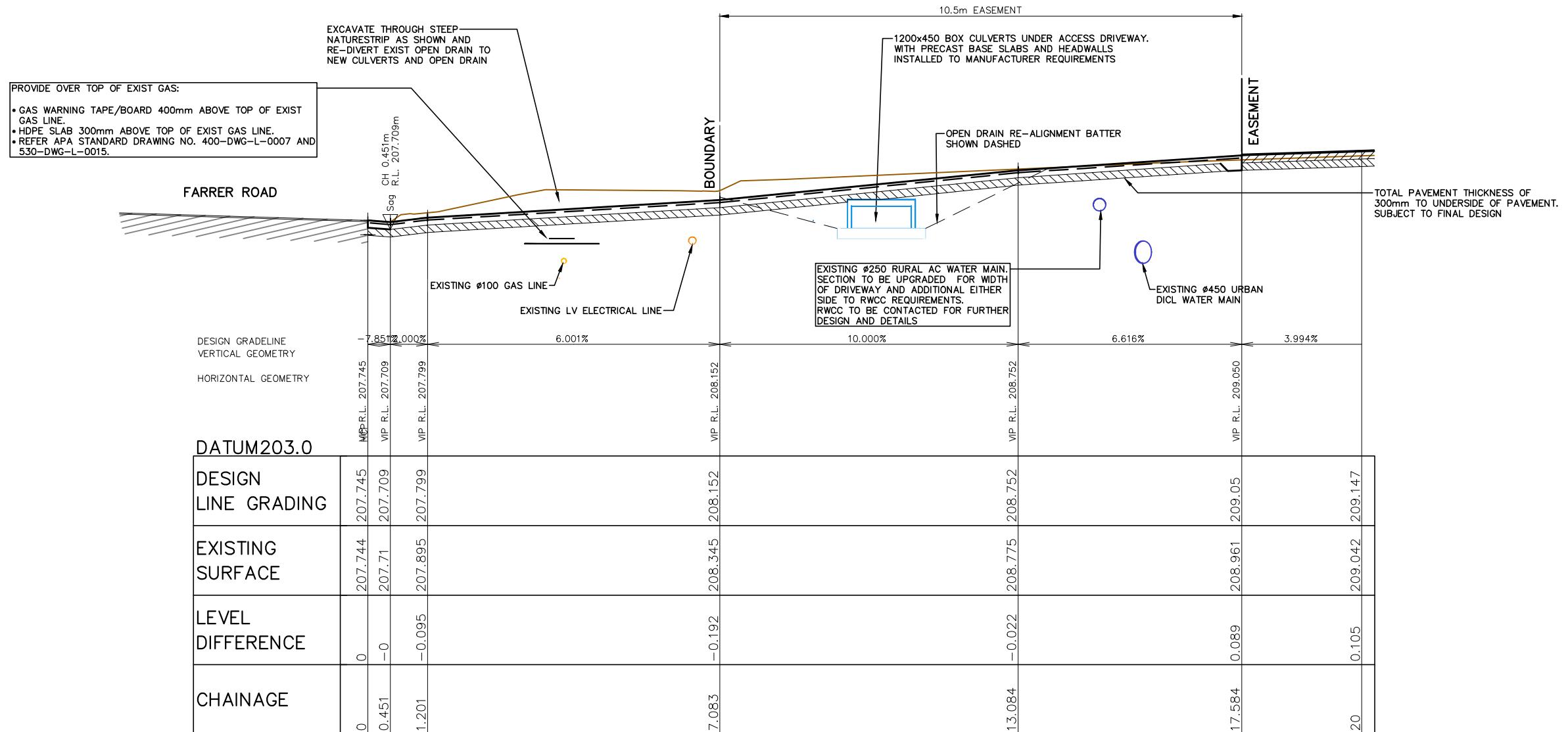
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Project:  
**PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678**

Sheet Title: SITE ACCESS LAYOUT PLAN				Project Number:		
Client: COLLIER'S INTERNATIONAL			Checked:		230728	
Scale: 1:125 (A1) 1:250 (A3)			Approved:		Sheet Number:	Revision Number:
Design: S,X	Drawn: N,T	Date: MAR 2024			B1101	P1

NOTE: ALL EXIST SERVICES SHOWN HAVE BEEN LOCATED USING VACUUM TRUCK POTHOLING TO CONFIRM EXACT LOCATIONS AND DEPTHS



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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
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P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



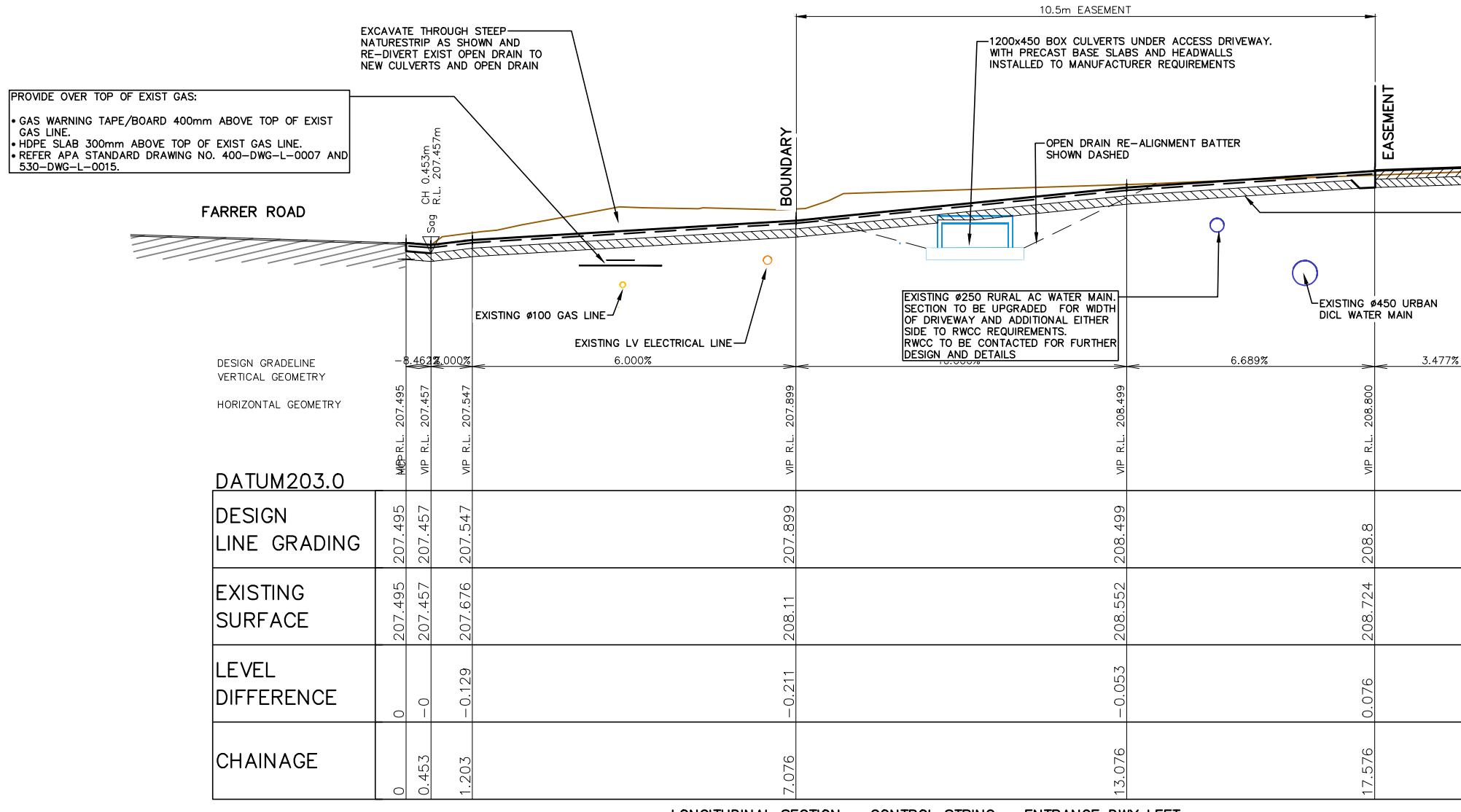
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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: LONG SECTION - ENTRANCE DWY LEFT			Project Number: 230728
Client: COLLIER'S INTERNATIONAL		Checked:	
Scale: AS SHOWN		Approved:	
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: B1102
Revision Number: P17			

NOTE: ALL EXIST SERVICES SHOWN HAVE BEEN LOCATED USING VACUUM TRUCK POTHOLING TO CONFIRM EXACT LOCATIONS AND DEPTHS



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P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

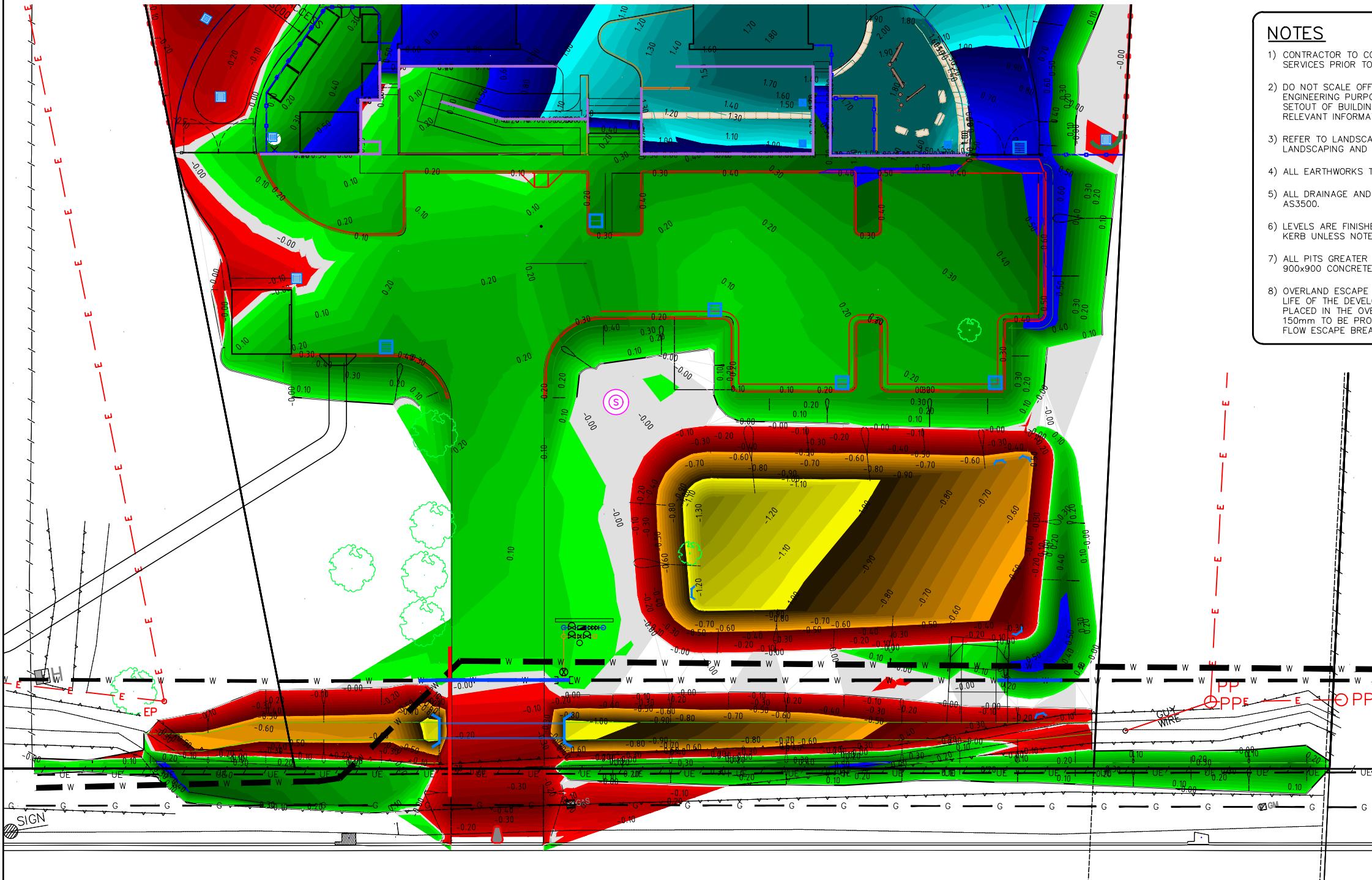


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Project: PROPOSED CIVIL WORKS  
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Sheet Title: LONG SECTION – ENTRANCE DWY RIGHT	Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:
Scale: AS SHOWN	Approved:
Design: S.X	Date: MAR 2024
Sheet Number: B1103	Revision Number: P17



### NOTES

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- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

CUT AND FILL	
LEVELS	COLOUR
+1.6	
1.5	
1.3 – 1.4	
1.2	
1.1	
1.0	
0.9	
0.8	
0.7	
0.6	
0.5	
0.4	
0.3	
0.2	
0.1	
0.0 (NOT CUT OR FILL)	
-0.1	
-0.2	
-0.3	
-0.4	
-0.5	
-0.6	
-0.7	
-0.8	
-0.9	
-1.0	
-1.1	
-1.2	

NOTE: DEPTH CONTOURS INDICATE DEPTH OF PROPOSED FINISHED SURFACE ABOVE EXISTING SURFACE AND DO NOT TAKE INTO ACCOUNT DEPTH OF PAVEMENTS OR SLABS



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0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
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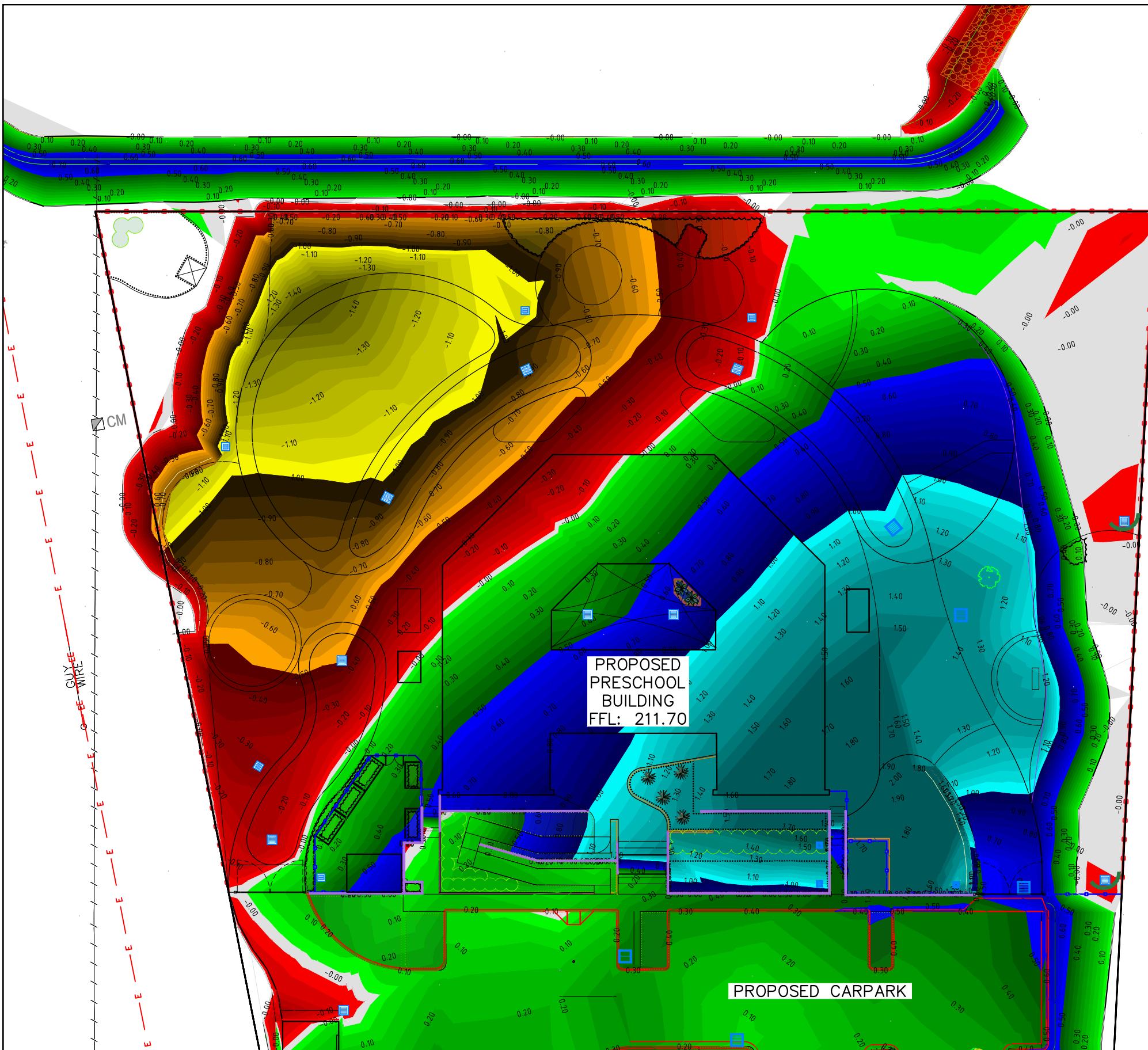
**XEROS PICCOLO**  
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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: DEPTH CONTOUR PLAN 1/2  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:200 (A1) 1:400 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Checked:  
Approved:  
Sheet Number: B1201  
Revision Number: P17



### NOTES

- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
- 2) DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO ARCHITECTURALS FOR SETOUT OF BUILDING AND RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

CUT AND FILL	
LEVELS	COLOUR
+1.6	
1.5	
1.3 – 1.4	
1.2	
1.1	
1.0	
0.9	
0.8	
0.7	
0.6	
0.5	
0.4	
0.3	
0.2	
0.1	
0.0 (NOT CUT OR FILL)	
-0.1	
-0.2	
-0.3	
-0.4	
-0.5	
-0.6	
-0.7	
-0.8	
-0.9	
-1.0	
-1.1	
-1.2	

NOTE: DEPTH CONTOURS INDICATE DEPTH OF PROPOSED FINISHED SURFACE ABOVE EXISTING SURFACE AND DO NOT TAKE INTO ACCOUNT DEPTH OF PAVEMENTS OR SLABS

0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

NOT FOR CONSTRUCTION

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



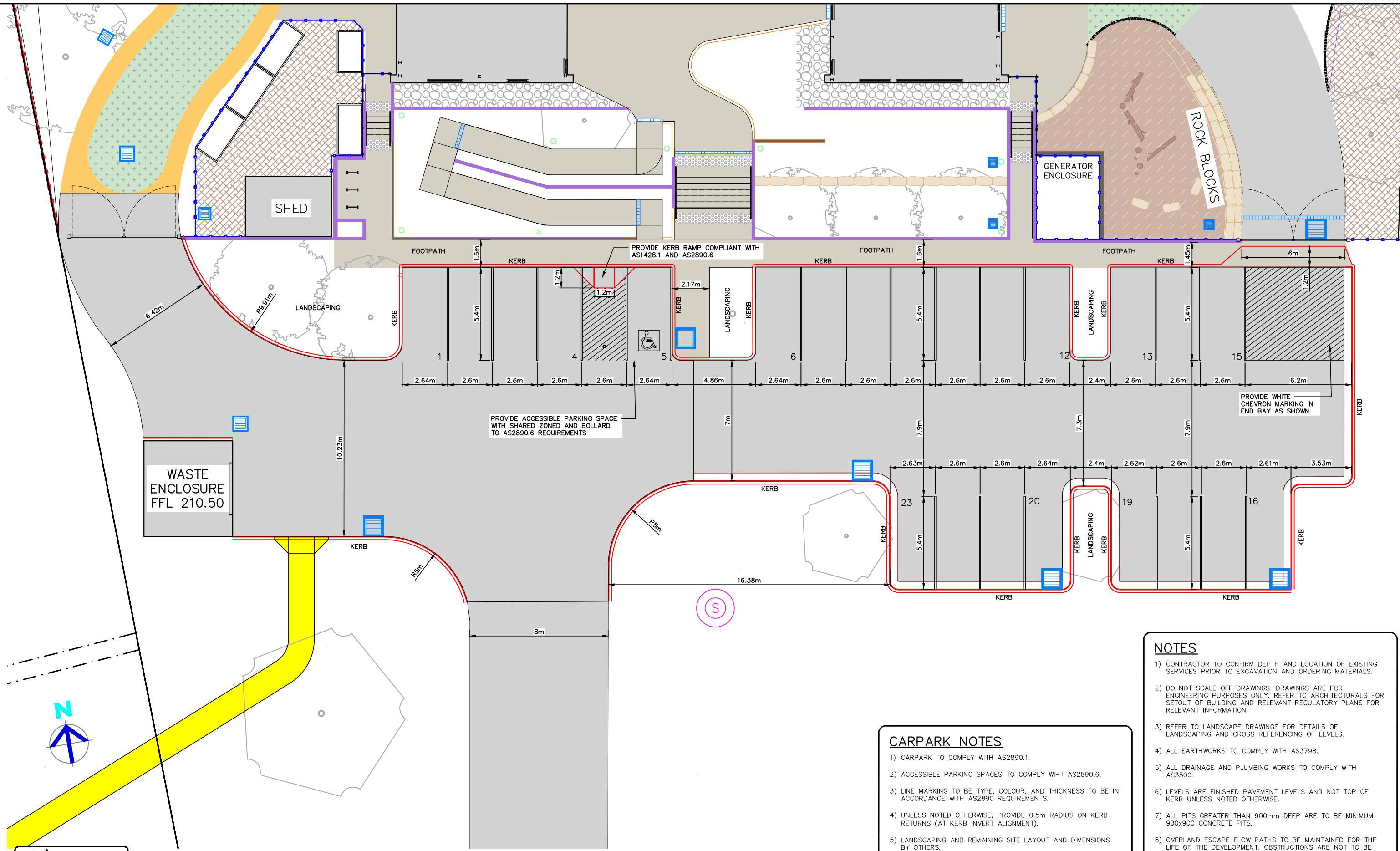
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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: DEPTH CONTOURS PLAN 2/2  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:200 (A1) 1:400 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Checked:  
Approved:  
Sheet Number: B1202  
Revision Number: P17



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: CAR PARK LAYOUT PLAN

Project Number: 230728

Client: COLLIER'S INTERNATIONAL

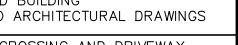
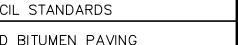
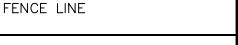
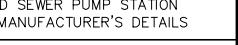
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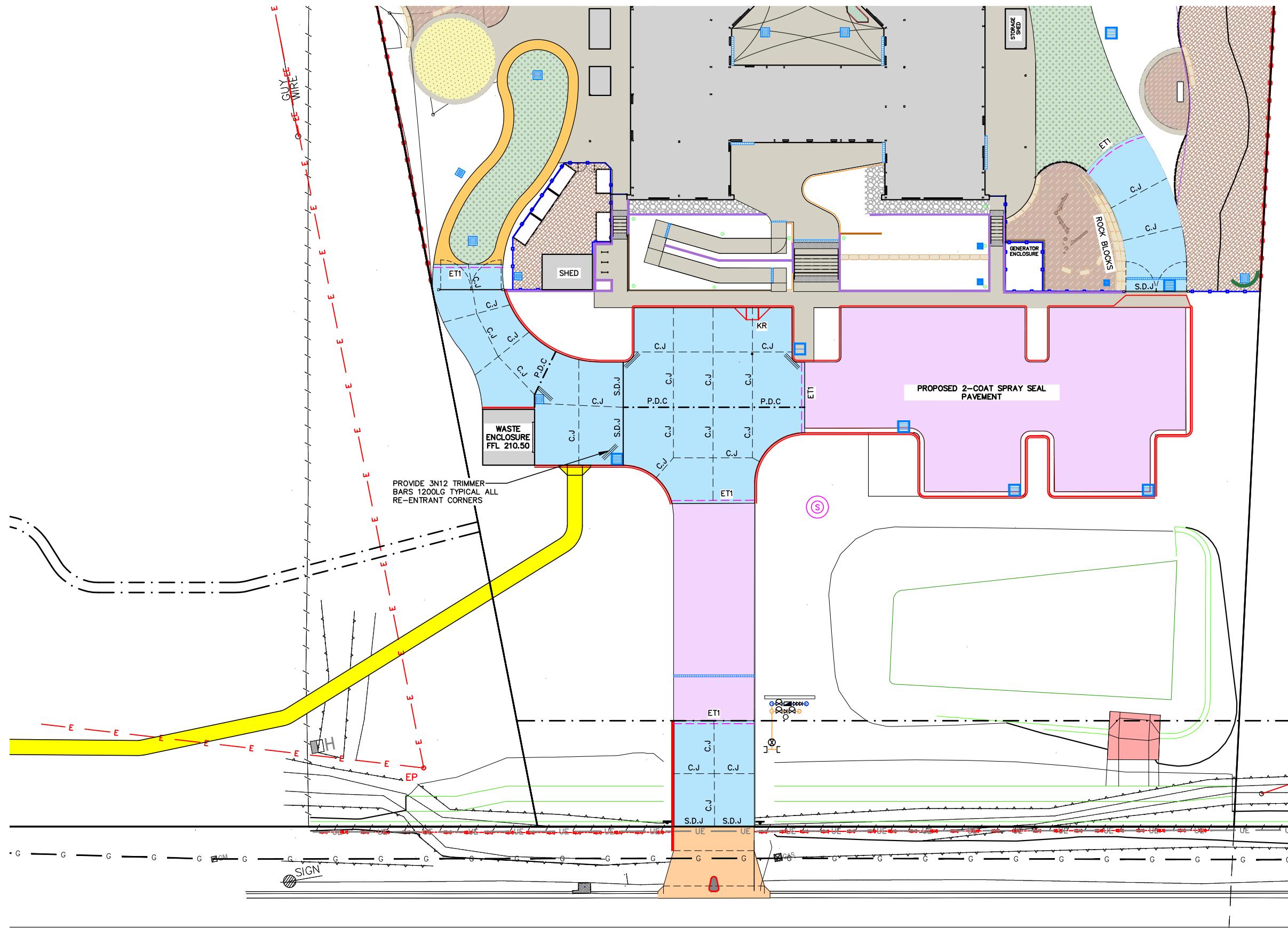
Scale: 1:100 (A1) 1:200 (A3)

Approved:

Design: S.X Drawn: N.T Date: MAR 2024

Sheet Number: B1301 Revision Number: P17

LEGEND	
MARK	ITEM
— C.J —	PROPOSED CONTROL JOINT REFER TO DETAIL C.J
— S.D.J —	PROPOSED SQUARE DOWEL JOINT REFER TO DETAIL S.D.J
— S.D.J.E —	PROPOSED SQUARE DOWEL JOINT INTO EXISTING REFER TO DETAIL S.D.J.E
— P.D.C —	PROPOSED PLATE DOWEL CRADLE REFER TO DETAIL P.D.C
— ET1 —	300x300 EDGE THICKENING REFER TO DETAIL ET1
	3N12 TRIMMER BARS 1200LG TYPICAL ALL RE-ENTRANT CORNERS
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
	PROPOSED CONCRETE CARPARK AND DRIVEWAY. REFER TO DETAIL PV2
	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK. REFER TO DETAIL PV3
— / — / —	EXISTING FENCE LINE
— PROPOSED FENCE LINE —	PROPOSED FENCE LINE
— E —	EXISTING ELECTRICITY LINE
	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
	PROPOSED STORMWATER PIT. REFER STORMWATER PLANS
— — —	EXISTING EASEMENT
— - - —	PROPOSED EASEMENT
— — — —	PROPOSED BOUNDARY LINE



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FARRER ROAD

0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

NOT FOR CONSTRUCTION

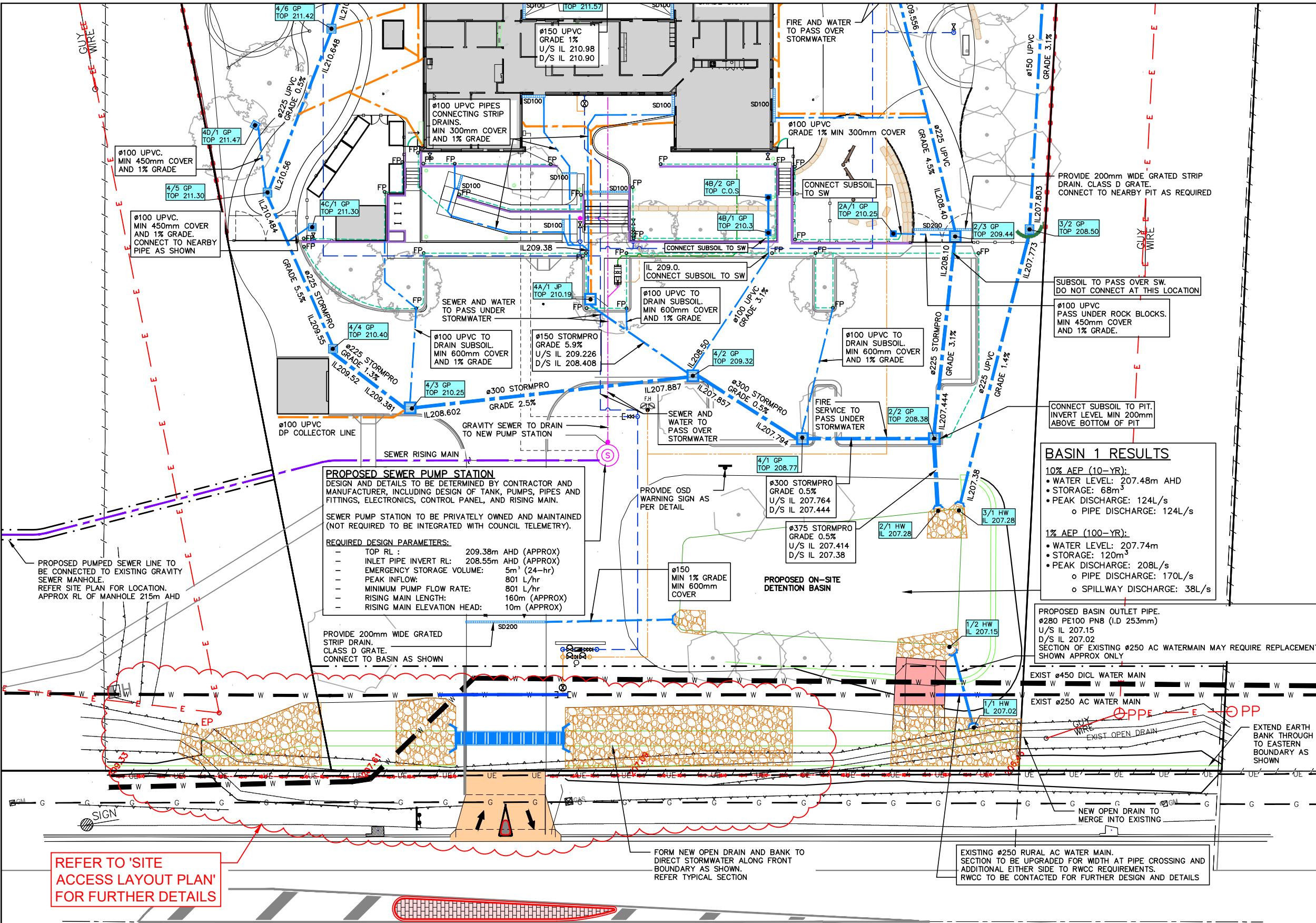
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: PAVEMENT PLAN	Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:
Scale: 1: 200 (A1) 1: 400 (A3)	Approved:
Design: S.X	Date: MAR 2024
Drawn: N.T	Sheet Number: B1401
Revision Number: P17	



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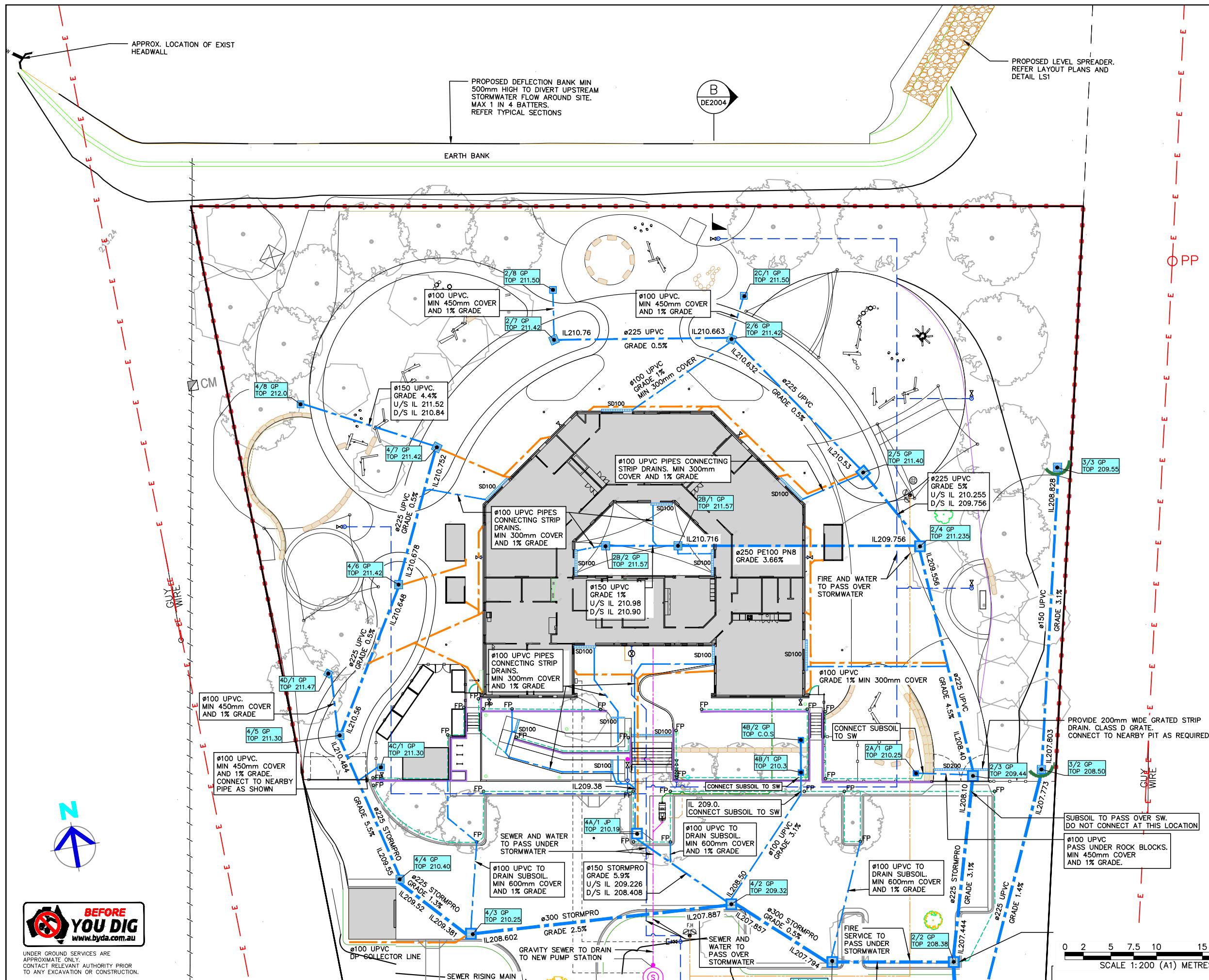
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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: STORMWATER AND SEWER PLAN 1/2			Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:		
Scale: 1:200 (A1) 1:400 (A3)	Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: B2001
Revision Number: P17			

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



LEGEND	
MARK	ITEM
4/5 GP TOP 211.30	PROPOSED PIT LABELS
OR	PROPOSED STORMWATER PIT. REFER TO DETAILS SWP
	PROPOSED STORMWATER HEADWALL REFER TO DETAIL H01
SD100	PROPOSED STORMWATER STRIP DRAIN SIZE AS INDICATED, REFER TO DETAIL AC
	PROPOSED STORMWATER LINE
	PROPOSED DOWNPipe COLLECTOR LINE REFER ROOF DRAINAGE PLAN
FP	PROPOSED SUBSOIL DRAINAGE LINE AND FLUSH POINTS. REFER DETAILS
	PROPOSED CONCRETE SPILLWAY REFER DETAIL SW1
	PROPOSED ROCK RIP-RAP REFER RELEVANT DETAILS AND ROCK SIZING TABLE
(S)	PROPOSED SEWER PUMP STATION AS PER MANUFACTURER'S DETAILS
	PROPOSED INTERNAL GRAVITY SEWER LINE. REFER HYDRAULICS DRAWINGS
	PROPOSED PUMPED SEWER LINE, TO PUMP STATION MANUFACTURER REQUIREMENTS
	PROPOSED FIRE (ORANGE) AND POTABLE WATER (BLUE). REFER HYDRAULICS DRAWINGS (BY OTHERS)
	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
RW	PROPOSED RETAINING WALL REFER TO DETAILS
— E —	EXISTING ELECTRICITY LINE
— UE —	EXISTING UNDERGROUND ELECTRICITY LINE
— W —	EXISTING WATERMAIN
— G —	EXISTING GAS MAIN
	PROPOSED FENCE LINE
	PROPOSED LANDSCAPE TREES. REFER LANDSCAPE DRAWINGS
— — —	EXISTING EASEMENT
— · · —	PROPOSED EASEMENT
— — —	PROPOSED BOUNDARY LINE

## NOTES

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**NOT FOR CONSTRUCTION**

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER
No.	DATE	DETAILS



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Project:  
**PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678**

Sheet Title: <b>STORMWATER AND SEWER PLAN 2/2</b>			Project Number:
Client: <b>COLLIERS INTERNATIONAL</b>		Checked:	<b>230728</b>
Scale: <b>1:200 (A1) 1:400 (A3)</b>		Approved:	Sheet Number: <b>B2002</b>
Design:	<b>S.X</b>	Drawn:	<b>N.T</b>
		Date:	<b>MAR 2024</b>
		Revision Number <b>P17</b>	

PIT SCHEDULE		
PIT No.	TYPE	NOTES
1/1 HW	PRECAST CONCRETE HEADWALL	—
1/2 HW	PRECAST CONCRETE HEADWALL	—
2/1 HW	PRECAST CONCRETE HEADWALL	—
2/2 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/3 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/4 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/5 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
2/6 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
2/7 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
2/8 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
2A/1 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
2B/1 GP	600 x 600 POLY GRATED PIT	CLASS A HEELSAFE STEEL GRATE
2B/2 GP	600 x 600 POLY GRATED PIT	CLASS A HEELSAFE STEEL GRATE
2C/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
3/1 HW	PRECAST CONCRETE HEADWALL	—
3/2 GP	600 x 600 POLY GRATED PIT	CLASS B STEEL GRATE
3/3 GP	600 x 600 POLY GRATED PIT	CLASS B STEEL GRATE
4/1 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/2 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/3 GP	900 x 900 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/4 GP	600 x 600 CONCRETE GRATED PIT	CLASS C STEEL GRATE
4/5 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/6 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/7 GP	600 x 600 POLY GRATED PIT	CLASS C STEEL GRATE
4/8 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
4A/1 JP	900 x 900 CONCRETE JUNCTION PIT	CONCRETE LID
4B/1 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
4B/2 GP	300 x 300 POLY GRATED PIT	CLASS A STEEL GRATE
4C/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE
4D/1 GP	450 x 450 POLY GRATED PIT	CLASS B STEEL GRATE



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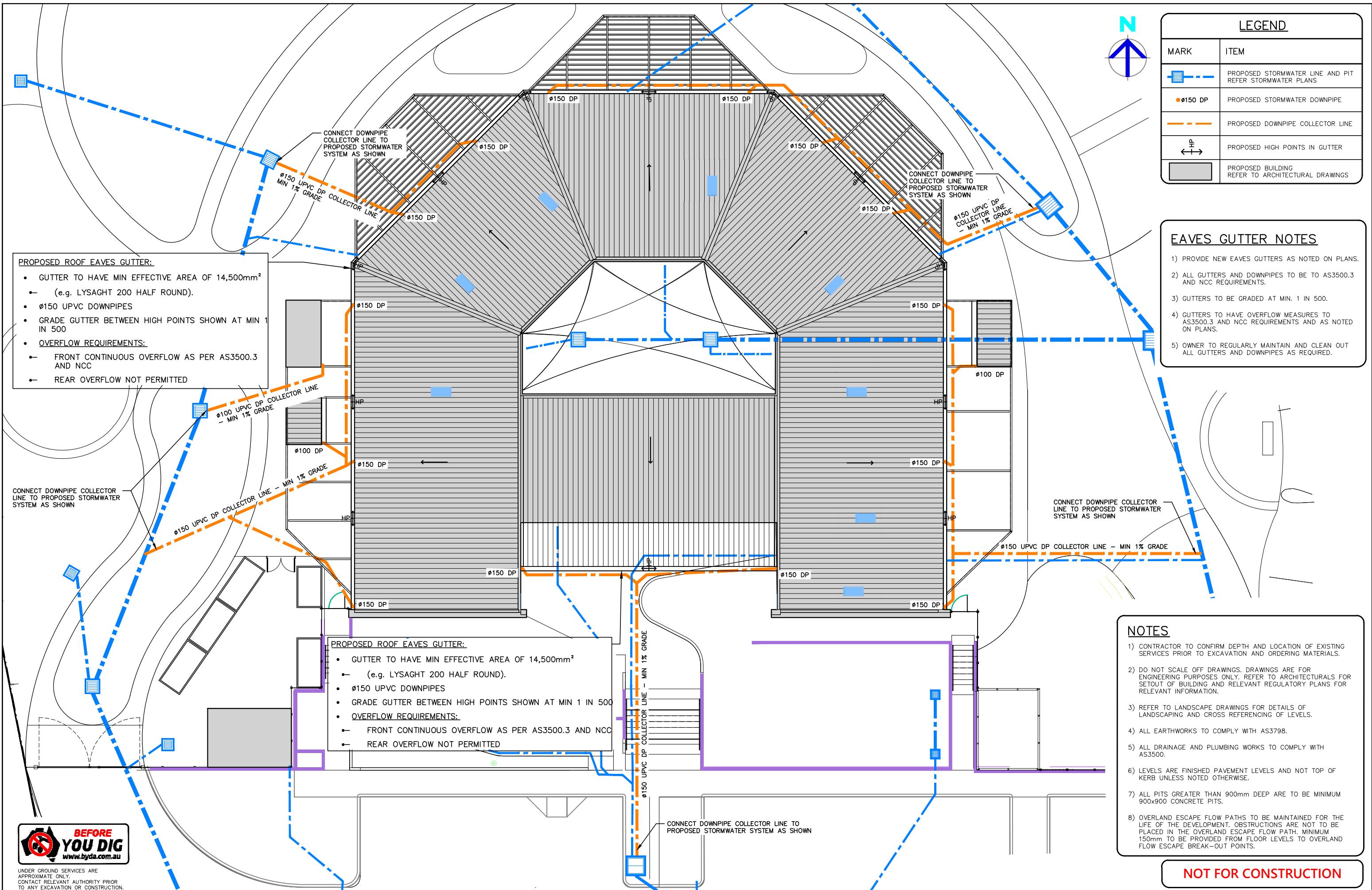
P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title:	STORMWATER PIT SCHEDULE	Project Number:
Client:	COLLIERS INTERNATIONAL	Checked:
Scale:	1:200 (A1) 1:400 (A3)	Approved:
Design:	S.X	Date: MAR 2024
Sheet Number:	B2103	Revision Number:



P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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CONSULTING ENGINEERS

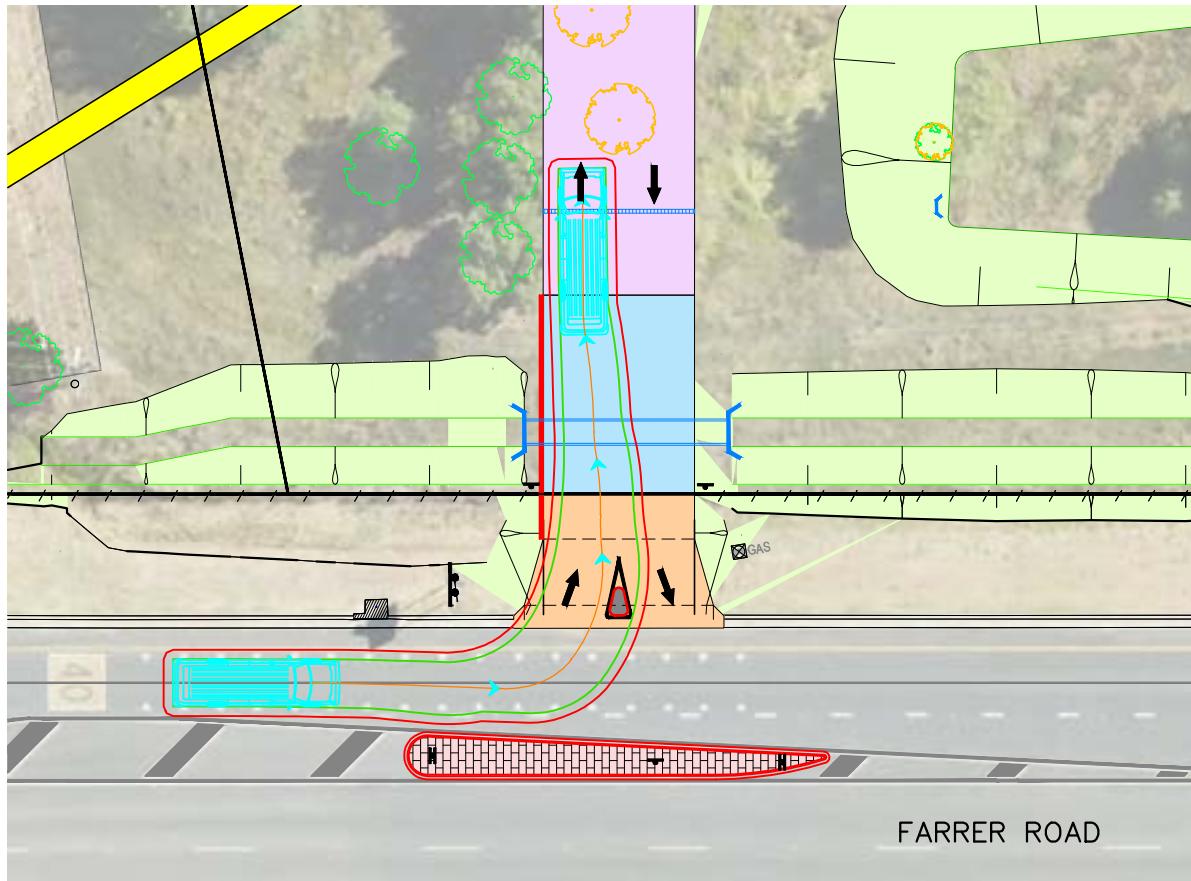
5 BYE STREET  
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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
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CHARLES STURT UNIVERSITY NSW 2678

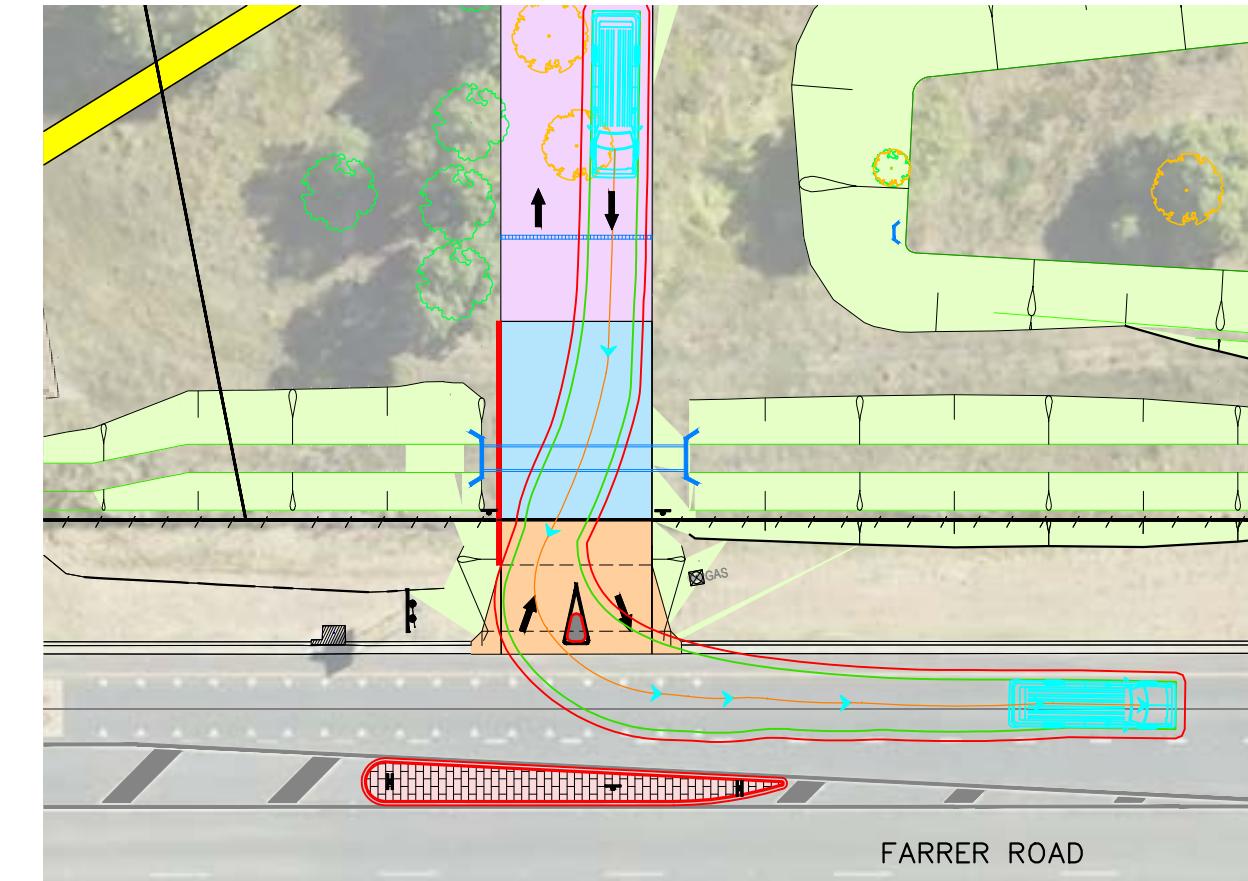
Sheet Title: ROOF DRAINAGE PLAN  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:100 (A1) 1:200 (A3)  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Approved: Sheet Number: B2201 Revision Number: P17

8.8m SERVICE VEHICLE ENTRY TURNING PATH



8.8m SERVICE VEHICLE EXIT TURNING PATH

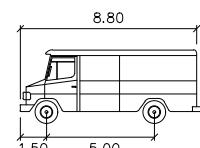


LEGEND

MARK	ITEM
—→	CENTRELINE OF VEHICLE TURNING PATH
—	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
—	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
—	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
—	PROPOSED CONCRETE CARPARK AND DRIVEWAY REFER TO DETAIL PV2
—	PROPOSED BATTER

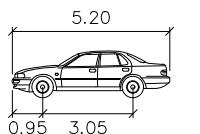
TURNING PATH NOTES

- 1) TURNING PATHS PRODUCED USING AUTOTURN
- 2) TURNING PATHS ARE FOR
  - 5.20m PASSENGER CAR (AUSTROADS 2013) TRAVEL SPEEDS 5km/h
  - 8.80m SERVICE VEHICLE (AUSTROADS 2013) TRAVEL SPEEDS 5km/h



SERVICE VEHICLE

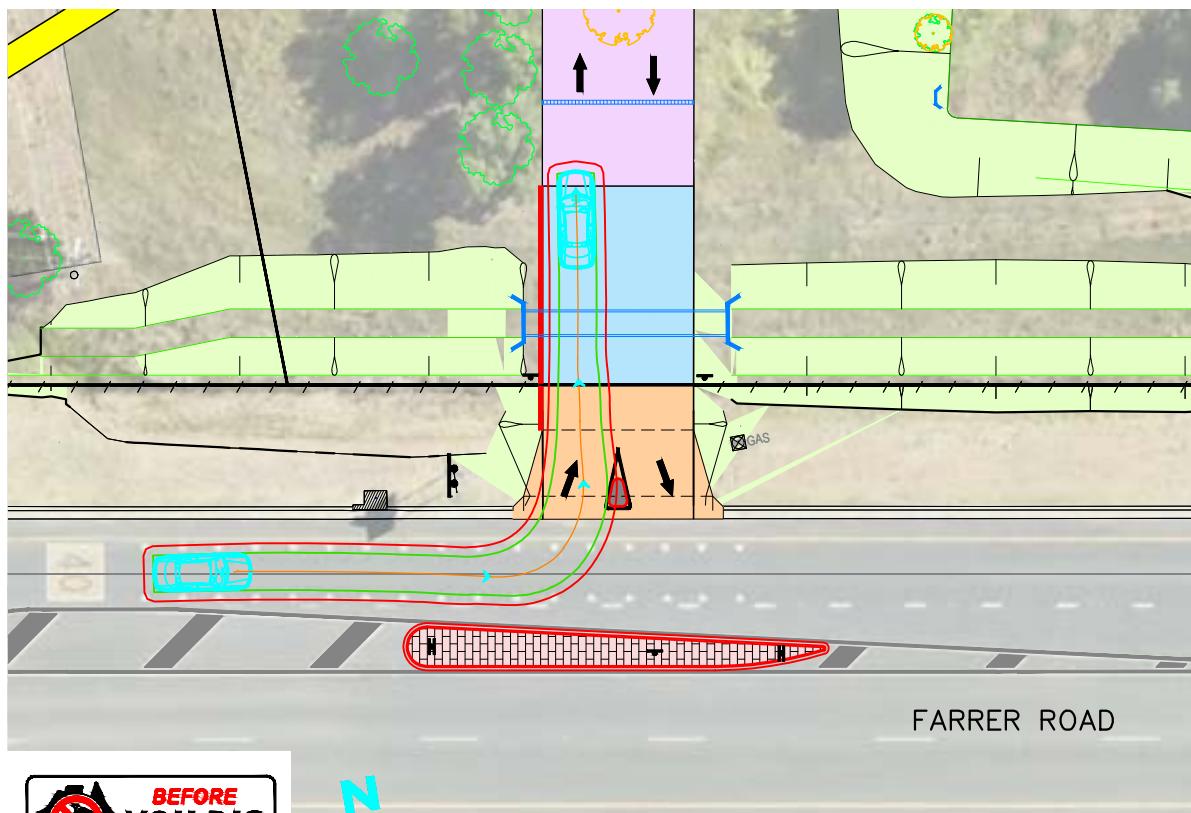
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Track : 2.50  
Lock to Lock Time : 6.0  
Steering Angle : 38.7



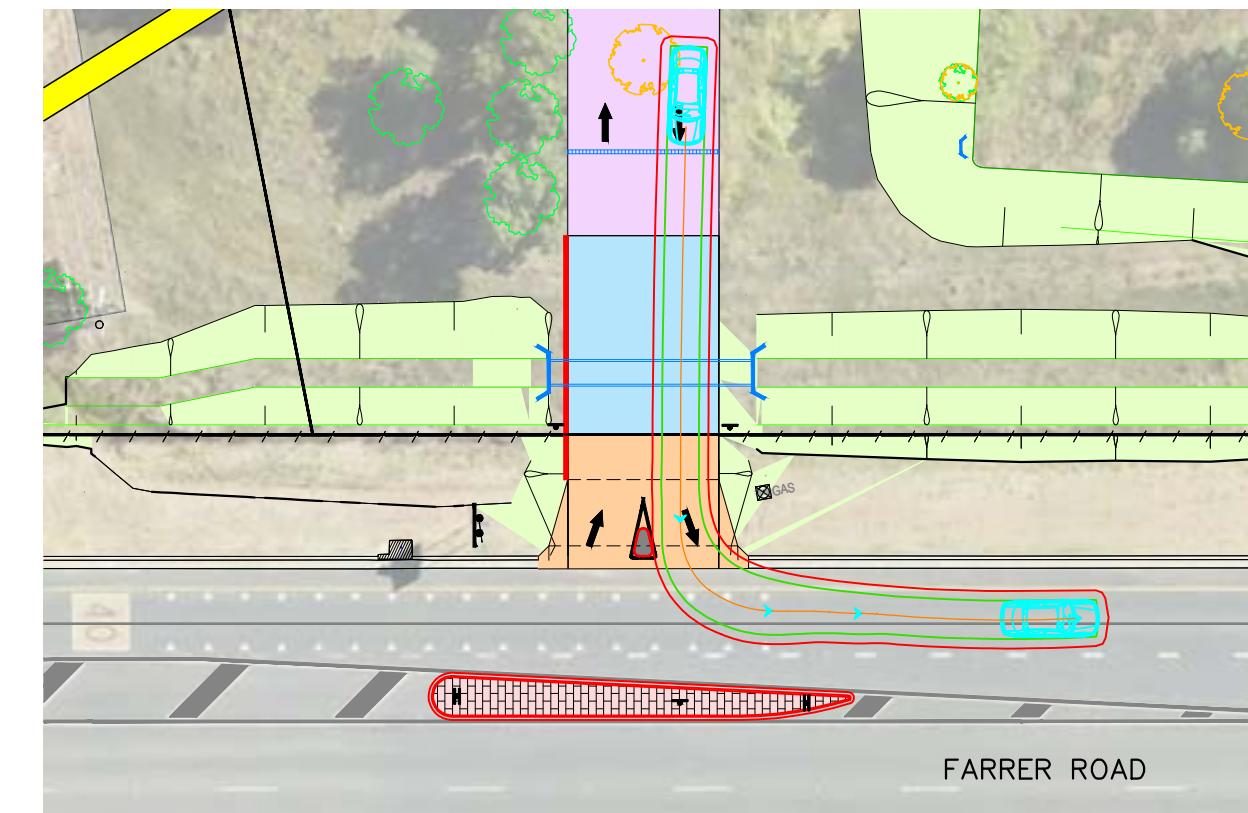
PASSENGER-CAR

Width : 1.94  
Track : 1.84  
Lock to Lock Time : 6.0  
Steering Angle : 33.6

5.20m PASSENGER CAR ENTRY TURNING PATH



5.20m PASSENGER CAR EXIT TURNING PATH



NOTES

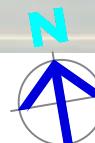
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0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

NOT FOR CONSTRUCTION



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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
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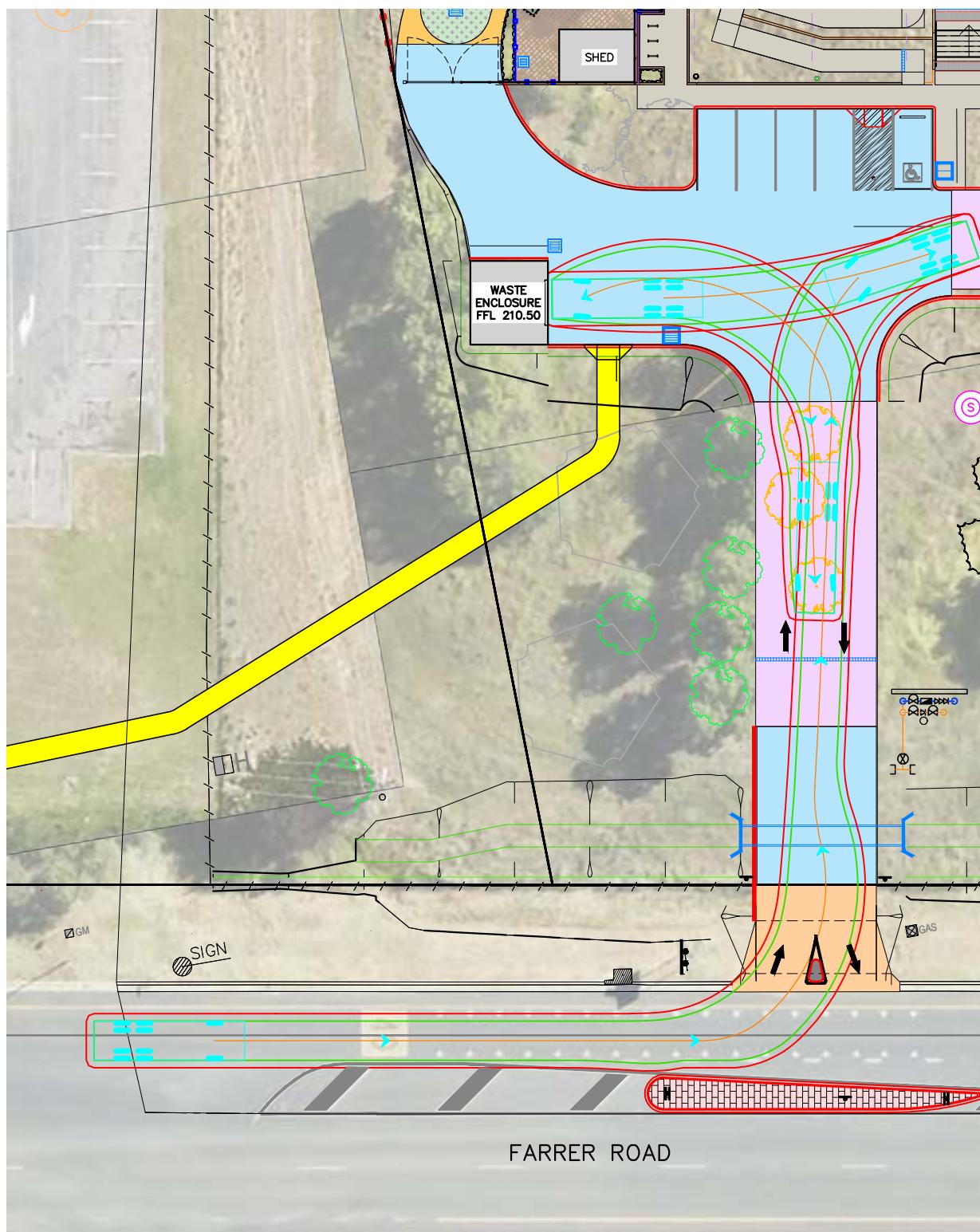
Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS - SITE ACCESS	Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:
Scale: 1: 200 (A1) 1: 400 (A3)	Approved:
Design: S.X	Drawn: N.T
Date: MAR 2024	Sheet Number: TP001
Revision Number: P17	

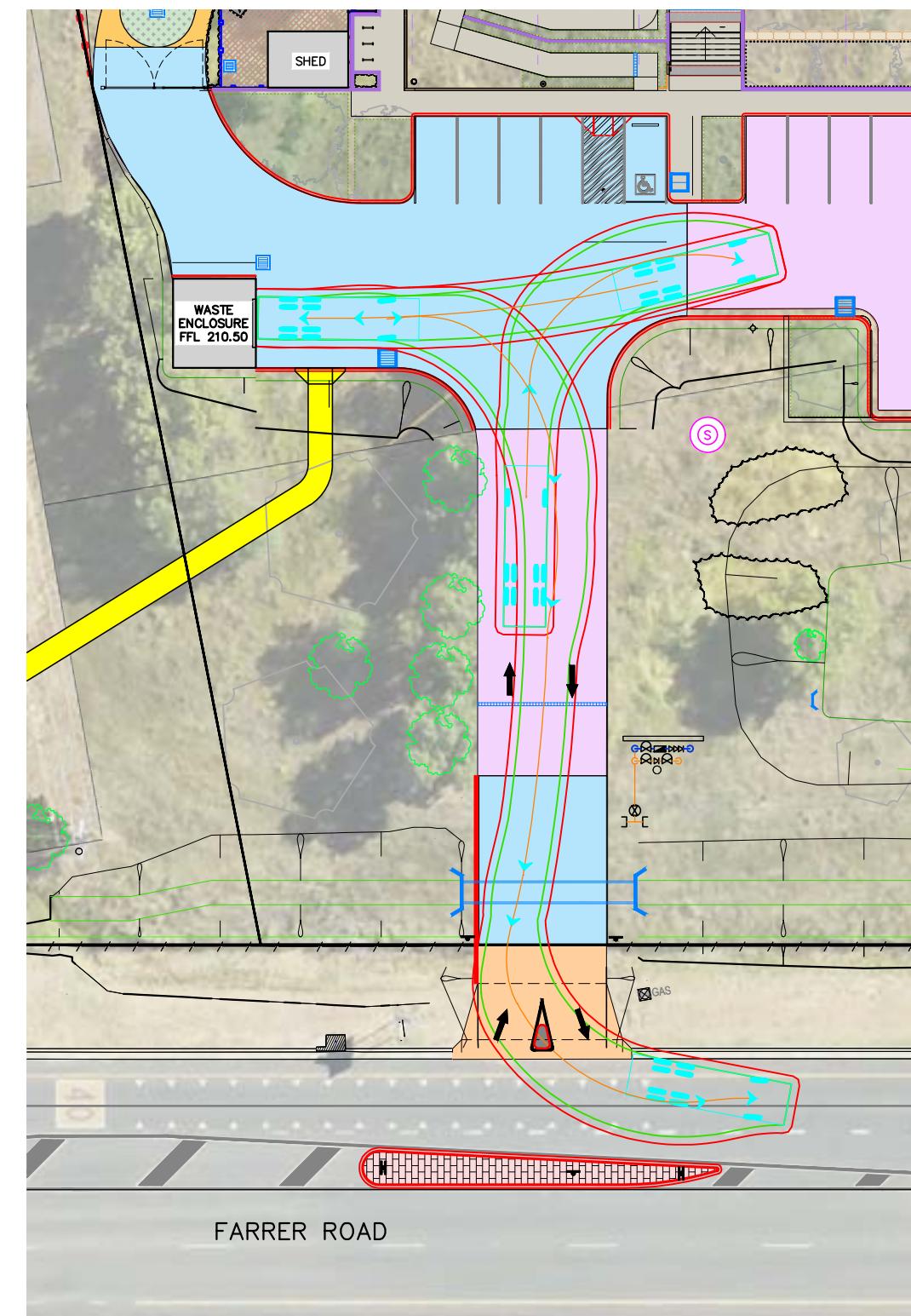
### LEGEND

MARK	ITEM
—>	CENTRELINE OF VEHICLE TURNING PATH
—	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
■	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
■	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
■	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
■	PROPOSED CONCRETE CARPARK AND DRIVEWAY REFER TO DETAIL PV2
■	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK REFER TO DETAIL PV3

10.0m GARBAGE TRUCK ENTRY TURNING PATH

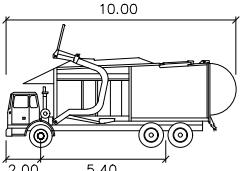


10.0m GARBAGE TRUCK EXIT TURNING PATH



### TURNING PATH NOTES

- 1) TURNING PATHS PRODUCED USING AUTOTURN
- 2) TURNING PATHS ARE FOR
  - 10.0m FRONT LOADING WASTE COLLECTING TRUCK (CA)
 TRAVEL SPEEDS 5km/h



Waste Collection Truck  
meters  
Width : 2.60  
Track : 2.60  
Lock to Lock Time : 6.0  
Steering Angle : 27.7

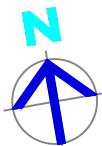
### NOTES

- 1) CONTRACTOR TO CONFIRM DEPTH AND LOCATION OF EXISTING SERVICES PRIOR TO EXCAVATION AND ORDERING MATERIALS.
- 2) DO NOT SCALE OFF DRAWINGS. DRAWINGS ARE FOR ENGINEERING PURPOSES ONLY. REFER TO ARCHITECTURALS FOR SETOUT OF BUILDING AND RELEVANT REGULATORY PLANS FOR RELEVANT INFORMATION.
- 3) REFER TO LANDSCAPE DRAWINGS FOR DETAILS OF LANDSCAPING AND CROSS REFERENCING OF LEVELS.
- 4) ALL EARTHWORKS TO COMPLY WITH AS3798.
- 5) ALL DRAINAGE AND PLUMBING WORKS TO COMPLY WITH AS3500.
- 6) LEVELS ARE FINISHED PAVEMENT LEVELS AND NOT TOP OF KERB UNLESS NOTED OTHERWISE.
- 7) ALL PITS GREATER THAN 900mm DEEP ARE TO BE MINIMUM 900x900 CONCRETE PITS.
- 8) OVERLAND ESCAPE FLOW PATHS TO BE MAINTAINED FOR THE LIFE OF THE DEVELOPMENT. OBSTRUCTIONS ARE NOT TO BE PLACED IN THE OVERLAND ESCAPE FLOW PATH. MINIMUM 150mm TO BE PROVIDED FROM FLOOR LEVELS TO OVERLAND FLOW ESCAPE BREAK-OUT POINTS.

NOT FOR CONSTRUCTION



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0 2 5 7.5 10 15 20  
SCALE 1:200 (A1) METRES

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES – RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

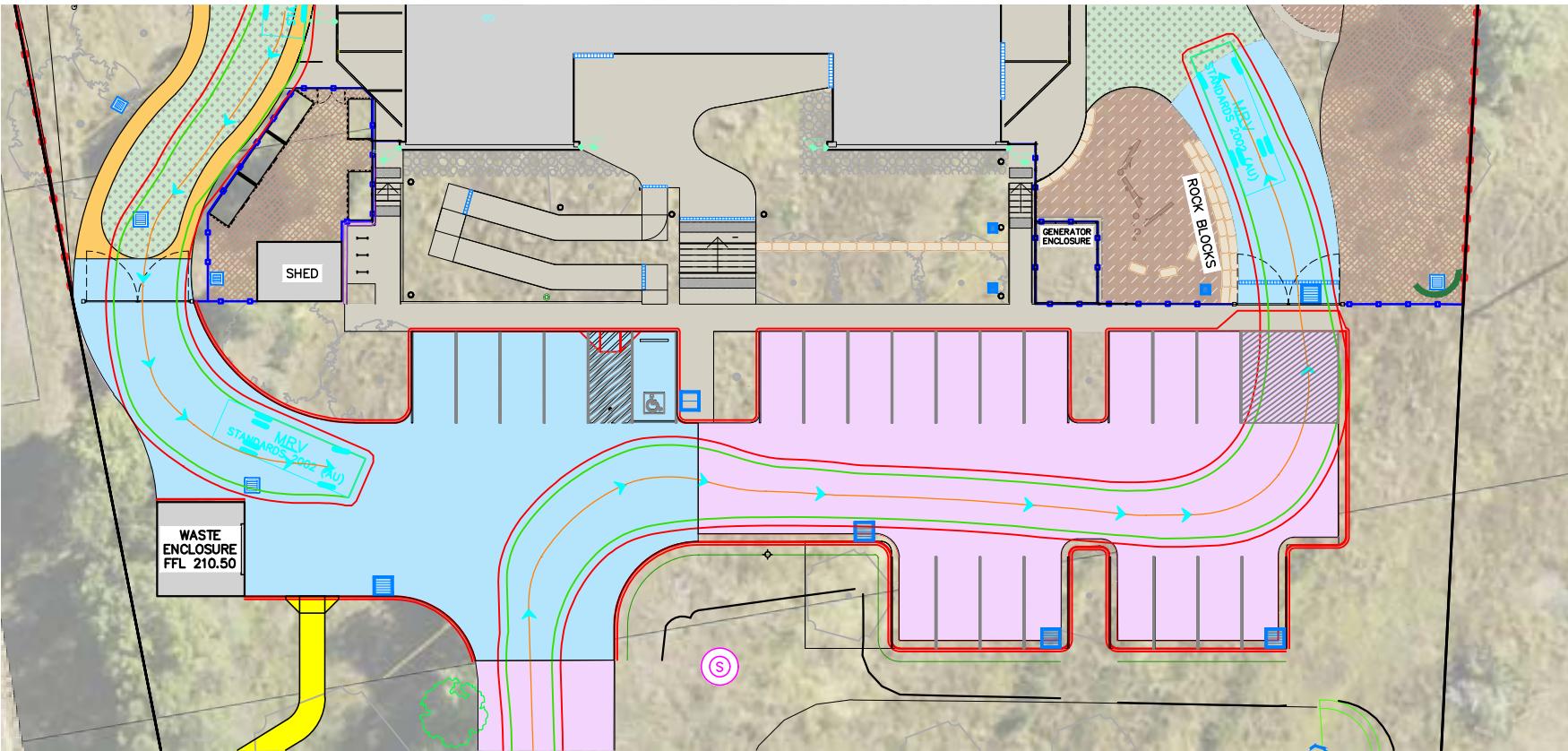


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A.C.N. 137 881 853

Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS – GARBAGE TRUCK	Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:
Scale: 1: 200 (A1) 1: 400 (A3)	Approved:
Design: S.X	Drawn: N.T
Date: MAR 2024	Sheet Number: TP002
Revision Number: P17	

8.8m GENERAL FIRE APPLIANCE (MEDIUM RIGID – AS2890.2) – COUNTERCLOCKWISE THROUGH SITE



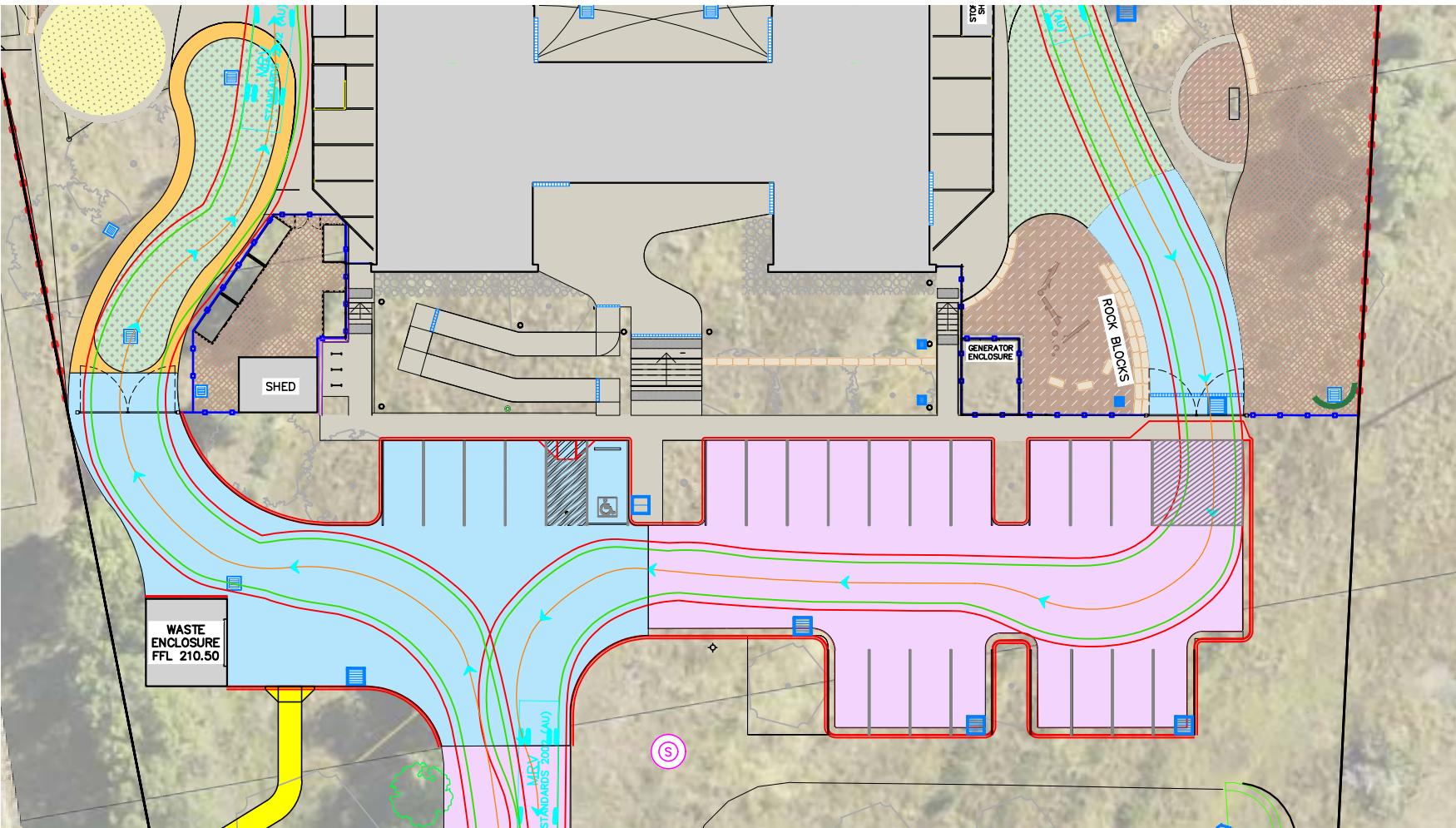
LEGEND

MARK	ITEM
—>	CENTRELINE OF VEHICLE TURNING PATH
—	OUTER EXTREMITY OF BODY OVERHANG FOR VEHICLE TURNING PATH
■	PROPOSED BUILDING REFER TO ARCHITECTURAL DRAWINGS
■	VEHICLE CROSSING AND DRIVEWAY TO BE CONSTRUCTED TO COUNCIL STANDARDS
■	PROPOSED BITUMEN PAVING REFER TO DETAIL PV1
■	PROPOSED CONCRETE CARPARK AND DRIVEWAY REFER TO DETAIL PV2
■	PROPOSED CONCRETE FOOTPATH AND BIKE TRACK REFER TO DETAIL PV3

TURNING PATH NOTES

- 1) TURNING PATHS PRODUCED USING AUTOTURN
- 2) TURNING PATHS ARE FOR
  - 8.8m GENERAL FIRE APPLIANCE (AS2890.2 – 8.8m MEDIUM RIGID
  - TRAVEL SPEEDS 5km/h

8.8m GENERAL FIRE APPLIANCE (MEDIUM RIGID – AS2890.2) – CLOCKWISE THROUGH SITE



NOTES

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P17 08.05.2025 PATH ALIGNMENT AMENDED AND SIGNAGE ADDED S.X

P16 06.05.2025 PATH AND TRAFFIC ISLAND ADDED S.X

P15 28.03.2025 ALTERNATE ACCESS INVESTIGATION S.X

P14 20.02.2025 MINOR UPDATES – RE-ISSUED FOR TENDER S.X

No. DATE DETAILS BY



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Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: TURNING PATHS – FIRE APPLIANCE

Project Number: 230728

Client: COLLIER'S INTERNATIONAL Checked:

230728

Scale: 1: 200 (A1) 1: 400 (A3)

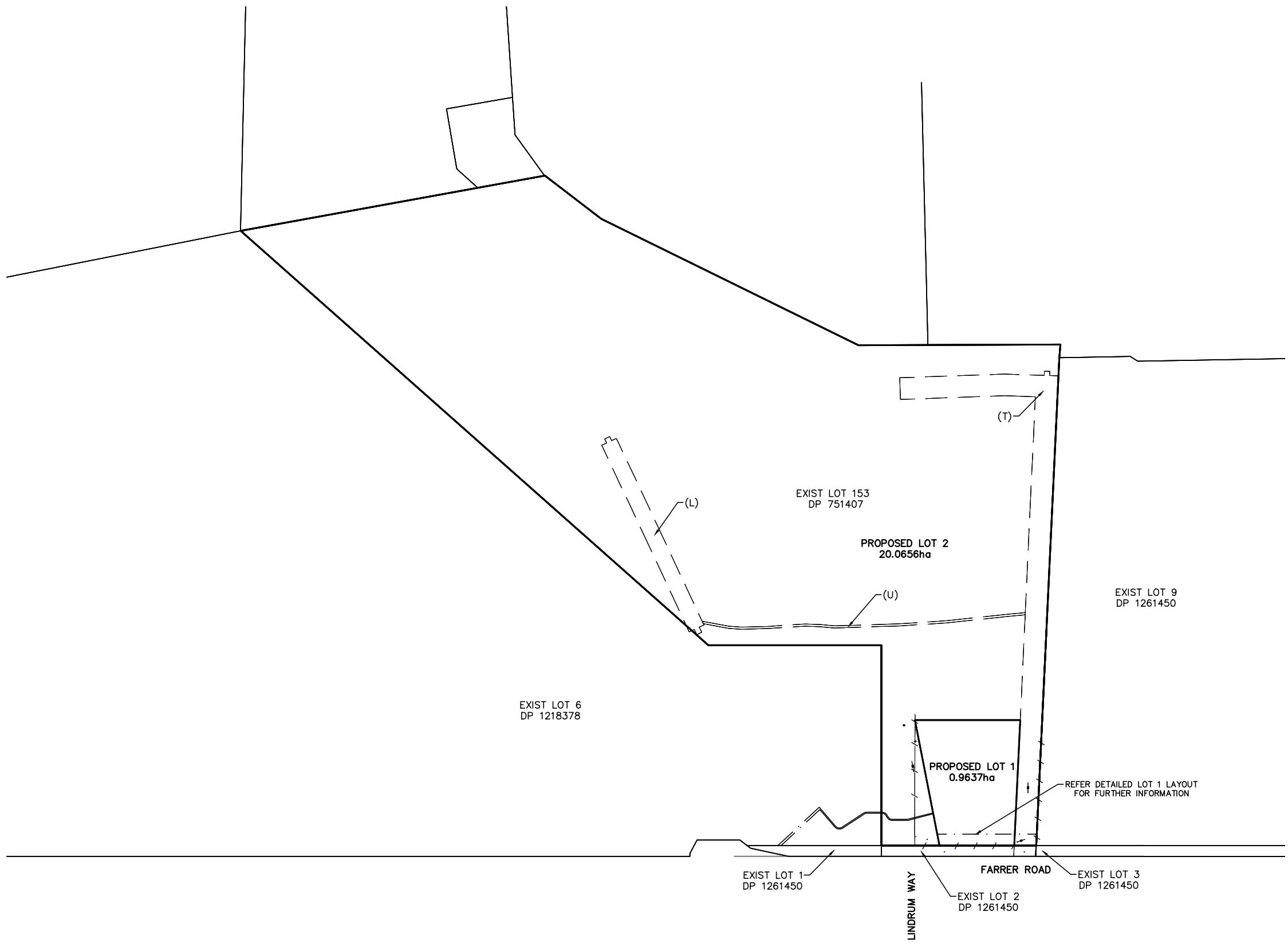
Approved:

Design: S.X Drawn: N.T Date: MAR 2024

TP003 P17

LEGEND	
MARK	ITEM
/—/—/—	EXISTING FENCE LINE
— — —	EXISTING EASEMENT
— · · —	PROPOSED EASEMENT
— — —	PROPOSED BOUNDARY LINE
— — —	EXISTING BOUNDARY LINE

(T) PROPOSED EASEMENT FOR OVERHEAD POWERLINES 20m WIDE & 5m WIDE  
 (L) PROPOSED EASEMENT FOR OVERHEAD POWERLINES 15m WIDE & 5m WIDE  
 (U) PROPOSED EASEMENT FOR UNDERGROUND POWERLINES 2m WIDE

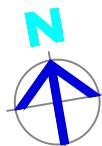


#### NOTES

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0 20 50 75 100 150 200  
 SCALE 1:2000 (A1) METRES

NOT FOR CONSTRUCTION

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

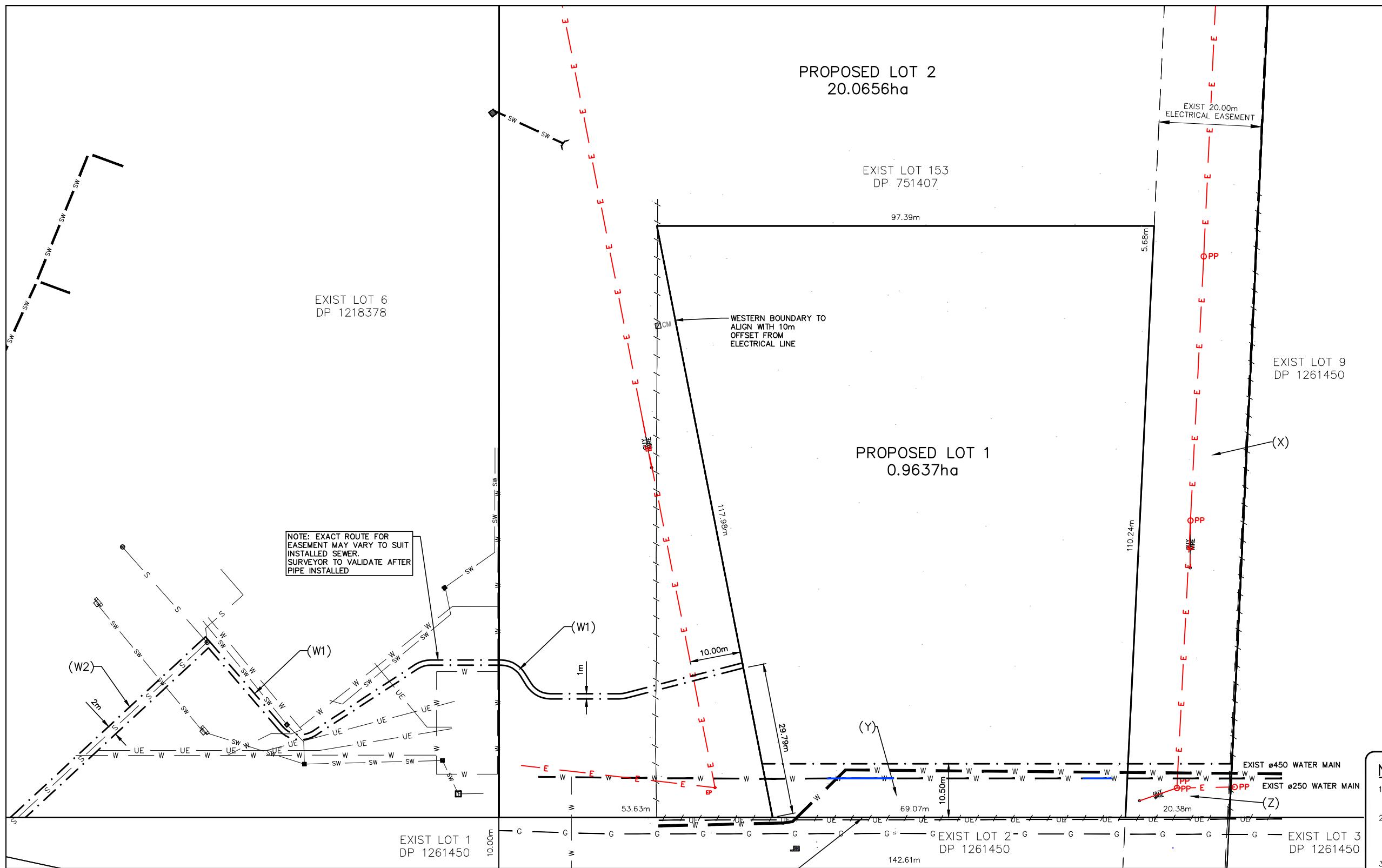


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Project: PROPOSED CIVIL WORKS  
 ST. MARY'S RAINBOW PRESCHOOL  
 FARRER ROAD  
 CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: OVERALL PROPOSED SUBDIVISION LAYOUT			Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:		
Scale: 1:2000 (A1) 1:4000 (A3)	Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: SUB01

LEGEND	
MARK	ITEM
— E —	EXISTING ELECTRICITY LINE
— UE —	EXISTING UNDERGROUND ELECTRICITY LINE
■ OR □	EXISTING STORMWATER PIT
— SW —	EXISTING HEADWALL
— SW —	EXISTING STORMWATER LINE
— W —	EXISTING WATERMAIN
— G —	EXISTING GAS MAIN
— / —	EXISTING FENCE LINE
— — —	EXISTING EASEMENT
— - -	PROPOSED EASEMENT
— — —	PROPOSED BOUNDARY LINE
— — —	EXISTING BOUNDARY LINE



#### NOTES

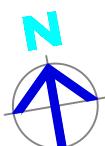
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0 4 10 15 20 30 40  
SCALE 1:400 (A1) METRES

NOT FOR CONSTRUCTION



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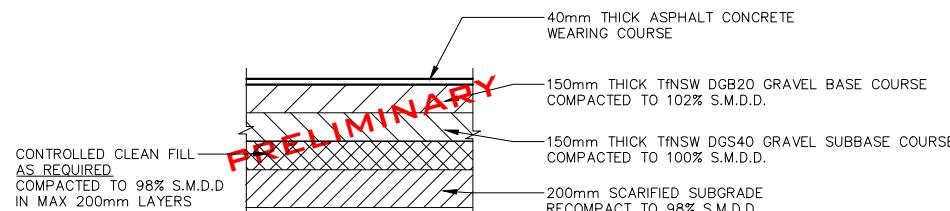


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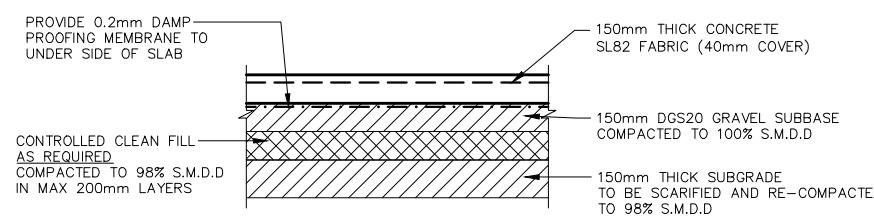
Project:  
PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: PROPOSED SUBDIVISION PLAN DETAILED LOT 1			Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:		
Scale: 1:400 (A1) 1:800 (A3)	Approved:		
Design: S.X	Drawn: N.T	Date: MAR 2024	
			Sheet Number: SUB02   Revision Number: P17

P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY

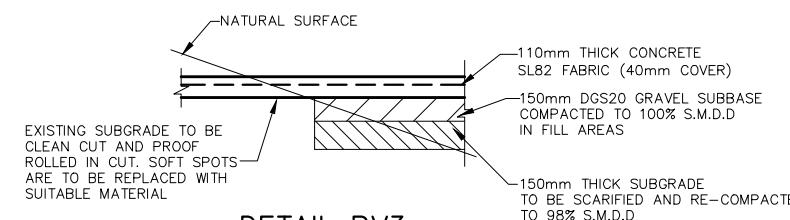


**DETAIL PV1**  
TYP. FLEXIBLE GRANULAR  
PAVEMENT WITH ASPHALT/HOTMIX  
WEARING COURSE



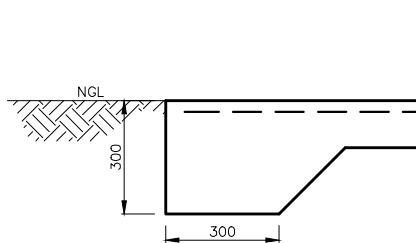
**DETAIL PV2**  
TYP. PAVING DETAIL  
(150mm CONC.)

NOTE: PROVIDE DOWEL JOINTS "D.J."  
@ MAX. 15000CTS. & CONTROL JOINTS  
"C.J" @ MAX. 5000CTS.

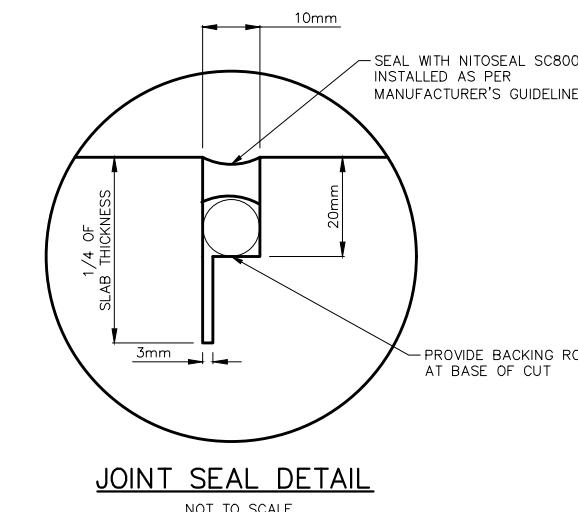


**DETAIL PV3**  
TYP. PAVING DETAIL  
(110mm CONC.)

NOTE: PROVIDE DOWEL JOINTS "D.J."  
@ MAX. 15000CTS. & CONTROL  
JOINTS "C.J" @ MAX. 5000CTS.



**DETAIL ET1**  
EDGE THICKENING DETAIL  
NOT TO SCALE



**JOINT SEAL DETAIL**  
NOT TO SCALE

## GENERAL PAVEMENT NOTES

### 1. MATERIALS

1.1. MATERIALS AND THEIR WORKMANSHIP SHALL BE THE BEST OF THEIR RESPECTIVE KINDS AND UNLESS SPECIFIED SHALL CONFORM TO SUCH STANDARD SPECIFICATIONS ISSUED BY THE AUSTRALIAN STANDARDS ASSOCIATION.

### 2. WORKS

2.1. THE CONTRACTOR IS NOT TO ENTER INTO, UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE AUTHORISED PERSON.

2.2. THE CONTRACTOR IS TO MAINTAIN ALL WEATHER ACCESS AT ALL TIMES.

### 3. SUBGRADE - NOT STABILISED

3.1. THE SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 200mm AND CONSOLIDATED WITH AN APPROVED ROLLER TO ACHIEVE A 98% STANDARD MAXIMUM DRY DENSITY TO AS 1289 E2.1.

3.2. THE SUBGRADE IS TO BE PROOF ROLLED AND SILT AND OTHER SOFT AND UNSUITABLE MATERIAL IS TO BE EXCAVATED AND REPLACED WITH AN APPROVED MATERIAL. EXCESS MATERIAL IS TO BE REMOVED FROM SITE UNLESS APPROVED OTHERWISE.

### 4. CONTROLLED EARTH FILL

4.1. ALL CONTROLLED EARTH FILL MATERIALS SHALL BE SUITABLE CLEAN, NON-REACTIVE FILL MATERIAL.

4.2. WHERE REQUIRED, CONTROLLED EARTH FILL IS TO BE PLACED AND COMPACTED TO THE REQUIRED THICKNESS AND TO ACHIEVE A 98% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1.

4.3. THE MATERIALS SHALL BE SPREAD ON THE UNDERLYING LAYER HAVING A COMPACTED THICKNESS NOT EXCEEDING 200mm BUT NOT LESS THAN 100mm.

### 5. SUBBASE

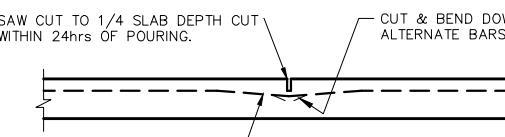
5.1. A LAYER OF CRUSHED ROCK OR GRAVEL IS TO BE PLACED TO THE REQUIRED THICKNESS AND COMPACTED TO ACHIEVE A 100% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1. THE MATERIALS SHALL BE SPREAD ON THE SUBBASE IN LAYERS HAVING A COMPACTED THICKNESS NOT EXCEEDING 150mm BUT GREATER THAN 100mm.

5.2. ALL BASE MATERIAL SHALL COMPLY WITH TNSW DGS40 SPECIFICATION UNLESS NOTED OTHERWISE.

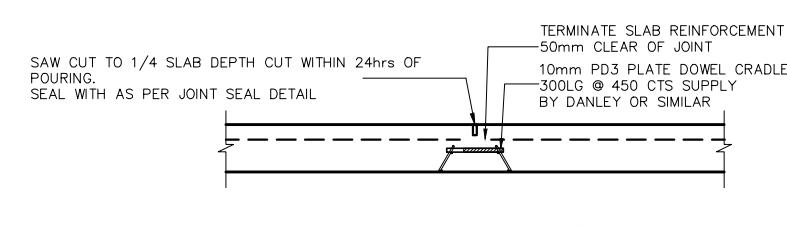
### 6. BASE

6.1. A LAYER OF CRUSHED ROCK OR GRAVEL IS TO BE PLACED TO THE REQUIRED THICKNESS AND COMPACTED TO ACHIEVE A 102% STANDARD MAXIMUM DRY DENSITY TO AS 1289 C15.4.1. THE MATERIALS SHALL BE SPREAD ON THE SUBBASE IN LAYERS HAVING A COMPACTED THICKNESS NOT EXCEEDING 150mm BUT GREATER THAN 100mm.

6.2. ALL BASE MATERIAL SHALL COMPLY WITH TNSW DGB20 SPECIFICATION UNLESS NOTED OTHERWISE.



**CONTROL JOINT DETAIL 'C.J'**  
NOT TO SCALE



**DETAIL 'P.D.C'**  
10mm PD3 PLATE DOWEL CRADLE  
REFER TO PLAN FOR LOCATIONS

## CONCRETE NOTES:

1. WORKMANSHIP AND MATERIALS TO BE IN ACCORDANCE WITH AS 3600 CONCRETE STRUCTURES AND CURRENT SAA CODES.

### 2. CONCRETE CHARACTERISTICS:

ELEMENT	GRADE (MPa 28 DAYS)	SLUMP (mm)	MAX. AGG. (mm)	ADDITIVES
SLAB	N32	80	20	NIL
PITS	N32	80	20	NIL
RW FOOTINGS	N32	80	20	NIL

3. CONCRETE TO BE PLACED USING MECHANICAL VIBRATORS.

4. SLAB THICKNESS DO NOT INCLUDE FINISH.

5. REINFORCING BARS AND REINFORCING FABRIC TO BE IN ACCORDANCE WITH RESPECTIVE SAA CODES.

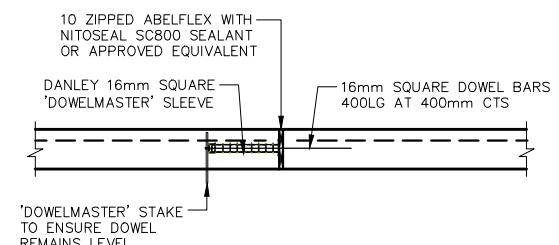
(i) AS 1302 STEEL REINFORCING BARS FOR CONCRETE:  
- R DENOTES PLAIN ROUND STRUCTURAL GRADE BARS,  $f_y=250\text{MPa}$   
- N DENOTES TEMPCORE STRUCTURAL GRADE DEFORMED BARS,  $f_y=500\text{MPa}$   
(ii) AS 1304 WELDED WIRE REINFORCING FABRIC FOR CONCRETE:  
- RF DENOTES HIGH TENSILE WELDED WIRE FABRIC,  $f_y=500\text{MPa}$

### 6. CLEAR CONCRETE COVER TO REINFORCEMENT TO BE:

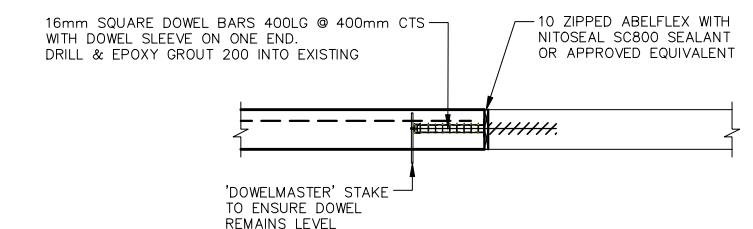
ELEMENT	COVER (mm)
SURFACES IN CONTACT WITH GROUND	
- WITHOUT MEMBRANE	50
- WITH MEMBRANE	30
SLAB	
FOOTING	50
ABOVE GROUND INTERIOR	30
ABOVE GROUND EXTERIOR	30

7. MASONRY SUPPORTING SLABS TO HAVE 2 LAYERS ALCOR "SLIP JOINT" BETWEEN THE TWO SURFACES.

8. SLABS ABUTTING MASONRY OR CONCRETE TO HAVE 10mm ZIPPED ABELFLEX BETWEEN THE SURFACES AND ARE TO BE SEALED WITH NITOSEAL SC800 SEALANT OR EQUIVALENT.



**16mm SQUARE DOWEL JOINT DETAIL 'S.D.J.'**  
WITH DANLEY 'DOWELMASTER' SLEEVE  
NOT TO SCALE



**16mm SQUARE DOWEL JOINT DETAIL 'S.D.J.E'**  
FOR DOWELING INTO EXISTING  
NOT TO SCALE



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P16	06.05.2025	PATH AND TRAFFIC ISLAND ADDED	S.X
P15	28.03.2025	ALTERNATE ACCESS INVESTIGATION	S.X
P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



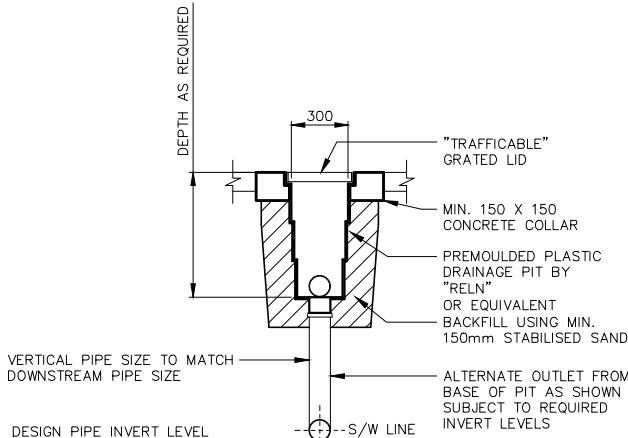
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Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

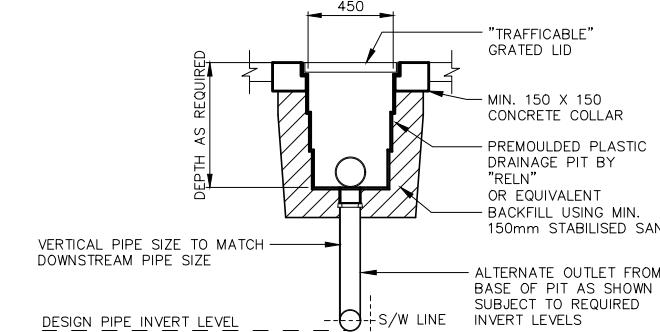
Sheet Title: PAVEMENT DETAILS			Project Number: 230728
Client: COLLIER'S INTERNATIONAL			Checked:
Scale: 1:20 (A1) 1:40 (A3) OR AS SHOWN			Approved:
Design: S.X	Drawn: N.T	Date: MAR 2024	Sheet Number: DE1001
Revision Number: P17			

NOT FOR CONSTRUCTION

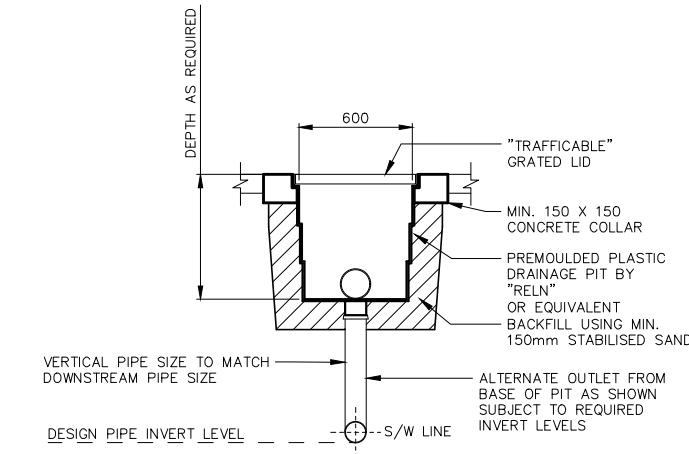
NOTE: GRATES IN PEDESTRIAN WALKWAYS  
TO HAVE ANTI-SLIP HEEL SAFE GRATES



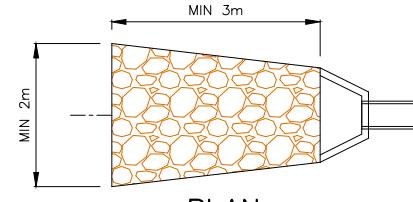
**DETAIL SWP1**  
TYP. PLASTIC PIT DETAIL  
(300 X 300)



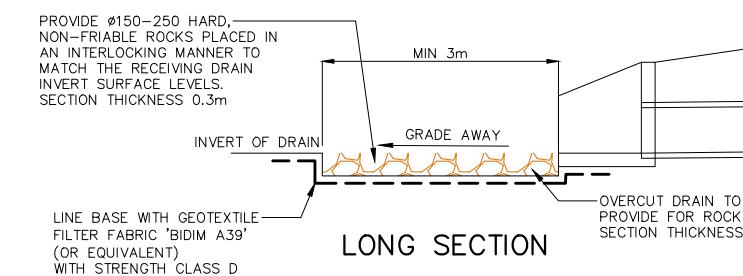
**DETAIL SWP2**  
TYP. PLASTIC PIT DETAIL  
(450 X 450)



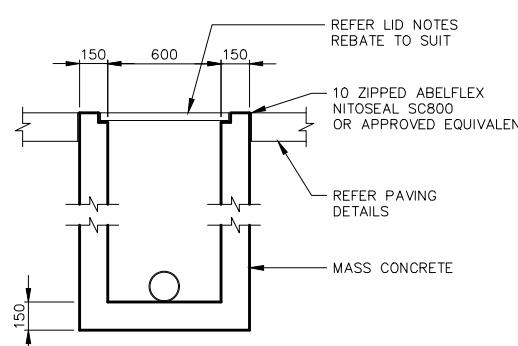
**DETAIL SWP3**  
TYP. PLASTIC PIT DETAIL  
(600 X 600)



PLAN



LONG SECTION



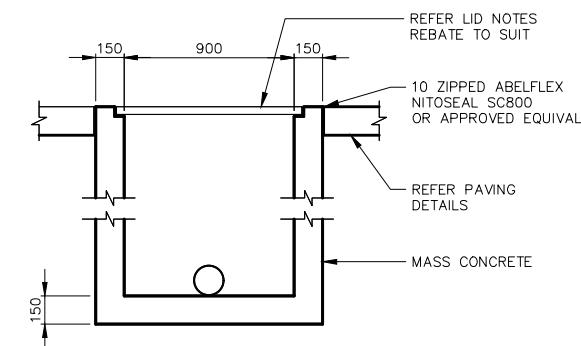
**DETAIL SWP4**  
TYP. CONCRETE PIT DETAIL  
(600 X 600)

NOTES: WHEN PIT IS ADJACENT TO BITUMEN AND/OR ASPHALT PAVEMENT, JOINTS TO BE SEALED WITH NITOSEAL SC820

ACCESS COVERS AND GRATES TO BE OF AN APPROPRIATE LOAD CLASS AS PER AS3996 OR AS SPECIFIED BELOW

GRADED INLET PIT (GP):  
LID TO BE HOT DIPPED GALVANIZED FABRICATED STEEL GRATE AS PER AS3996

JUNCTION PIT (JP):  
LID TO BE CONSTRUCTED FROM TRAFFICABLE PRECAST CONCRETE.



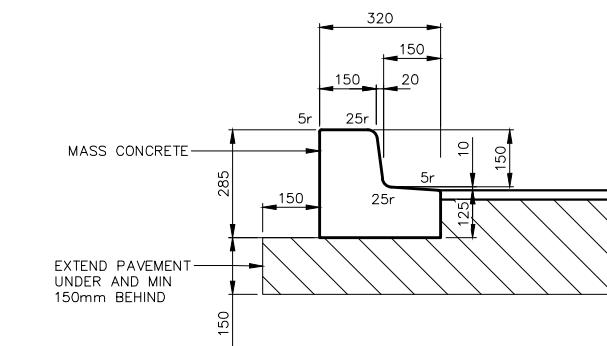
**DETAIL SWP5**  
TYP. CONCRETE PIT DETAIL  
(900 X 900)

NOTES: WHEN PIT IS ADJACENT TO BITUMEN AND/OR ASPHALT PAVEMENT, JOINTS TO BE SEALED WITH NITOSEAL SC820

ACCESS COVERS AND GRATES TO BE OF AN APPROPRIATE LOAD CLASS AS PER AS3996 OR AS SPECIFIED BELOW

GRADED INLET PIT (GP):  
LID TO BE HOT DIPPED GALVANIZED FABRICATED STEEL GRATE AS PER AS3996

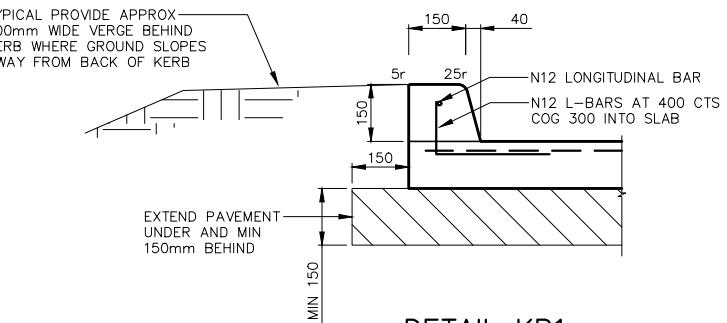
JUNCTION PIT (JP):  
LID TO BE CONSTRUCTED FROM TRAFFICABLE PRECAST CONCRETE.



**DETAIL KT1**  
TYP. 150mm HIGH KERB AND TOE  
(K+T)

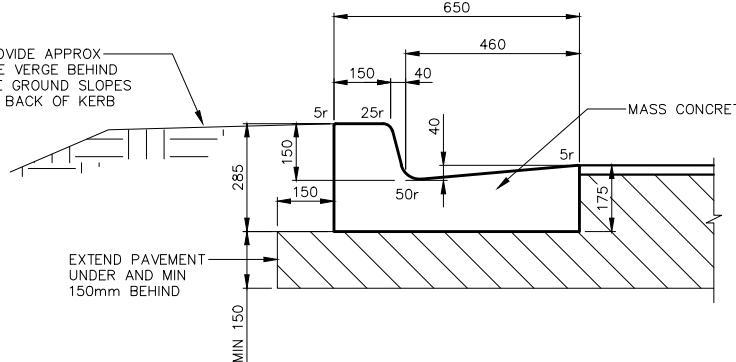
SCALE: 1:10 (A1) 1:20 (A3)

NOTES:  
1. PROVIDE TROWEL JOINTS AT 3m CTS



**DETAIL KB1**  
BARRIER KERB DETAIL  
150mm HIGH  
KB

SCALE: 1:10 (A1) 1:20 (A3)



**DETAIL KG1**  
TYP. 150mm HIGH KERB AND GUTTER  
ADJACENT TO BITUMEN PAVEMENT (K+G)

SCALE: 1:10 (A1) 1:20 (A3)

NOTES:  
1. PROVIDE TROWEL JOINTS AT 3m CTS



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P14	20.02.2025	MINOR UPDATES - RE-ISSUED FOR TENDER	S.X
No.	DATE	DETAILS	BY



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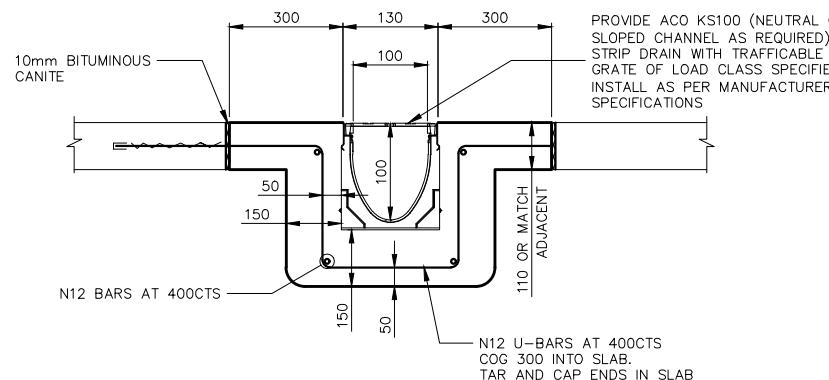
Project: PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: STORMWATER DETAILS 1/5  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:20 (A1) 1:40 (A3) OR AS SHOWN  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Checked:  
Approved:  
Sheet Number: DE2001  
Revision Number: P17

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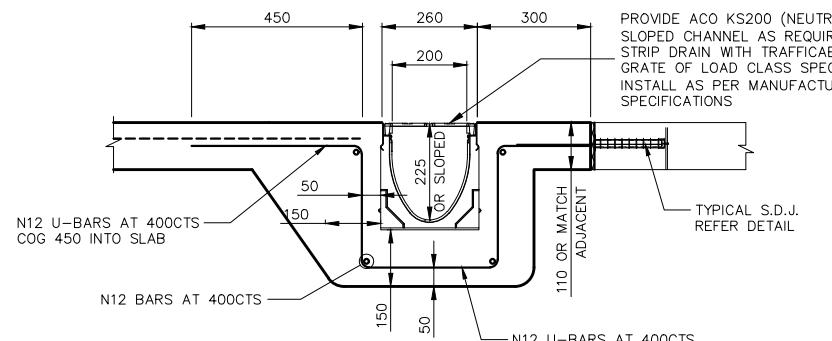
NOTE: GRATES IN PEDESTRIAN WALKWAYS  
TO HAVE ANTI-SLIP HEEL SAFE GRATES



**DETAIL AC1**  
ACO KS100 GRATED STRIP DRAIN  
(TRAFFICABLE)

SCALE: 1:10 (A1) 1:20 (A3)

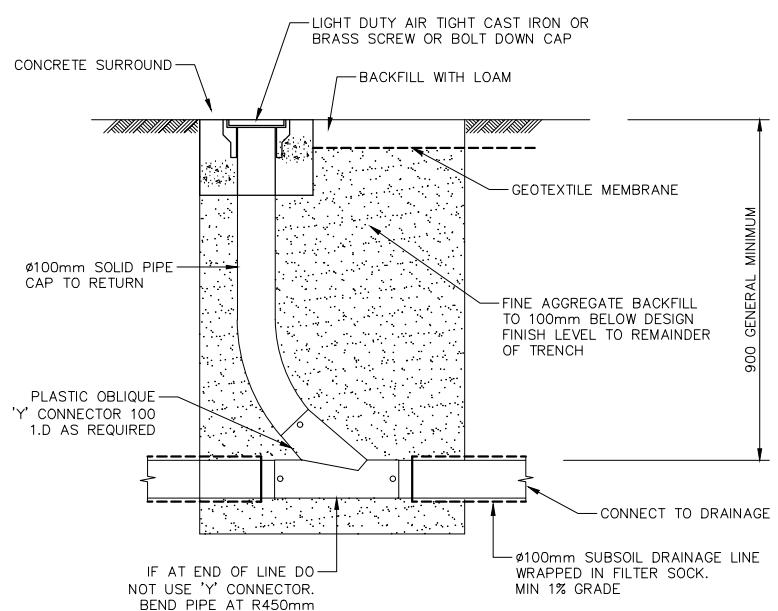
NOTES: 1) STRIP DRAIN DIMENSIONS ARE AS PER  
MANUFACTURER'S DETAILS  
2) INSTALL STRIP DRAIN AS PER MANUFACTURER'S  
SPECIFICATIONS  
3) GRATE TO HAVE LOAD CLASS AS PER AS3996  
4) A STRIP DRAIN OF EQUIVALENT SIZE AND LOAD  
CLASS MAY BE USED IF NECESSARY



**DETAIL AC2**  
ACO KS200 GRATED STRIP DRAIN  
(TRAFFICABLE)

SCALE: 1:10 (A1) 1:20 (A3)

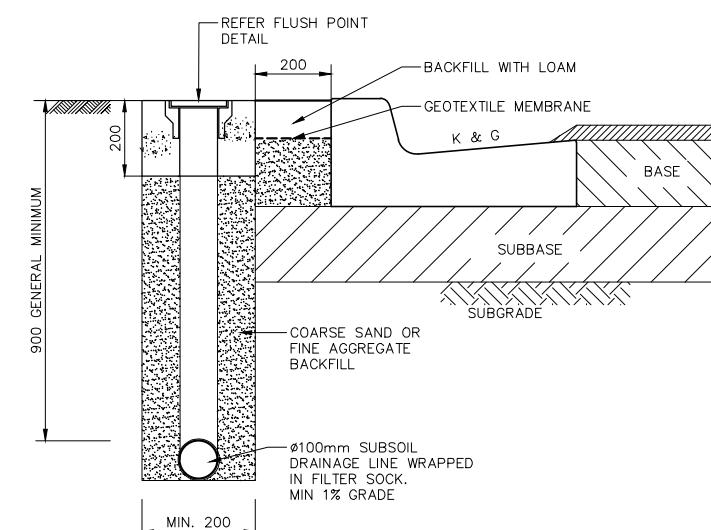
NOTES: 1) STRIP DRAIN DIMENSIONS ARE AS PER  
MANUFACTURER'S DETAILS  
2) INSTALL STRIP DRAIN AS PER MANUFACTURER'S  
SPECIFICATIONS  
3) GRATE TO HAVE LOAD CLASS AS PER AS3996  
4) A STRIP DRAIN OF EQUIVALENT SIZE AND LOAD  
CLASS MAY BE USED IF NECESSARY



**DETAIL FP**  
TYPICAL FLUSHING POINT DETAIL

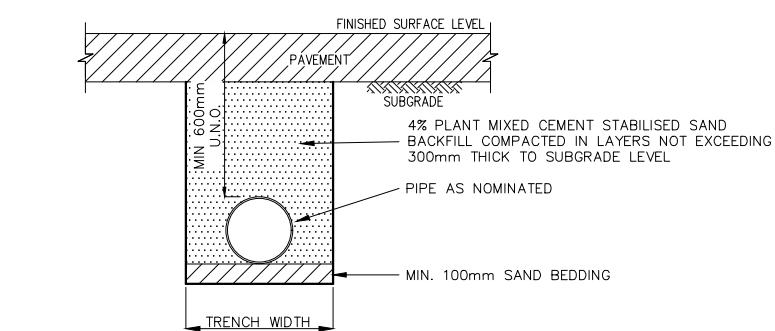
SCALE: 1:10 (A1) 1:20 (A3)

NOTE: 1) PROVIDE FLUSH POINT AT START OF SUBSOIL  
DRAINAGE LINES, AT SHARP CHANGES IN DIRECTION,  
AND AT 60m CTS.  
2) DRAWING AS PER WWCC EDS 02.11 REQUIREMENTS.

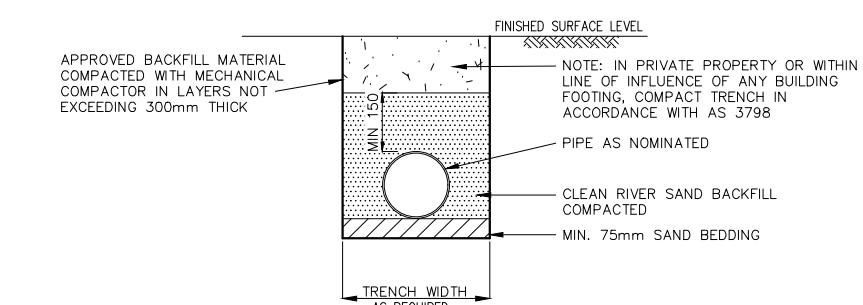


**DETAIL SD1**  
TYPICAL SUBSOIL DRAINAGE  
DETAIL

SCALE: 1:10 (A1) 1:20 (A3)



**DETAIL BF1**  
STORMWATER PIPELINE BACKFILL  
FOR PIPES UNDER ROADS



**DETAIL BF2**  
TRENCH BACKFILL FOR PIPELINE  
IN NON-TRAFFICABLE AREAS



**WARNING**  
ON SITE DETENTION AREA  
STORMWATER MAY RISE  
IN THIS AREA  
DURING HEAVY RAIN

**ON-SITE DETENTION WARNING SIGN**

NOT TO SCALE

NOTES: 1) SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION OF EACH DETENTION BASIN.

2) COLOURS:

- RED
- BLUE
- BLACK



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No.	DATE	DETAILS	BY



**XEROS PICCOLO**  
CONSULTING ENGINEERS

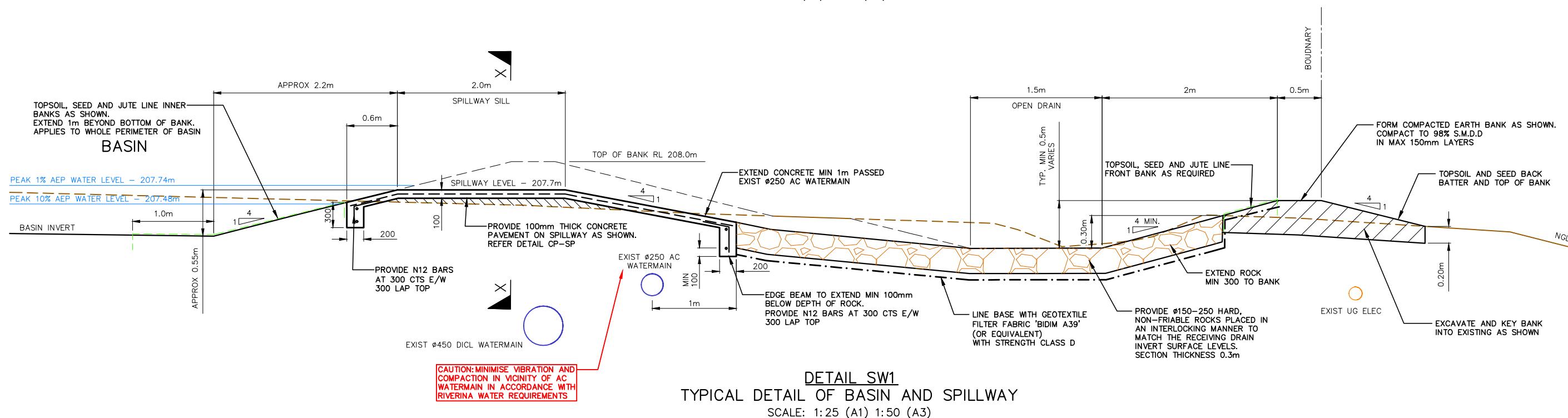
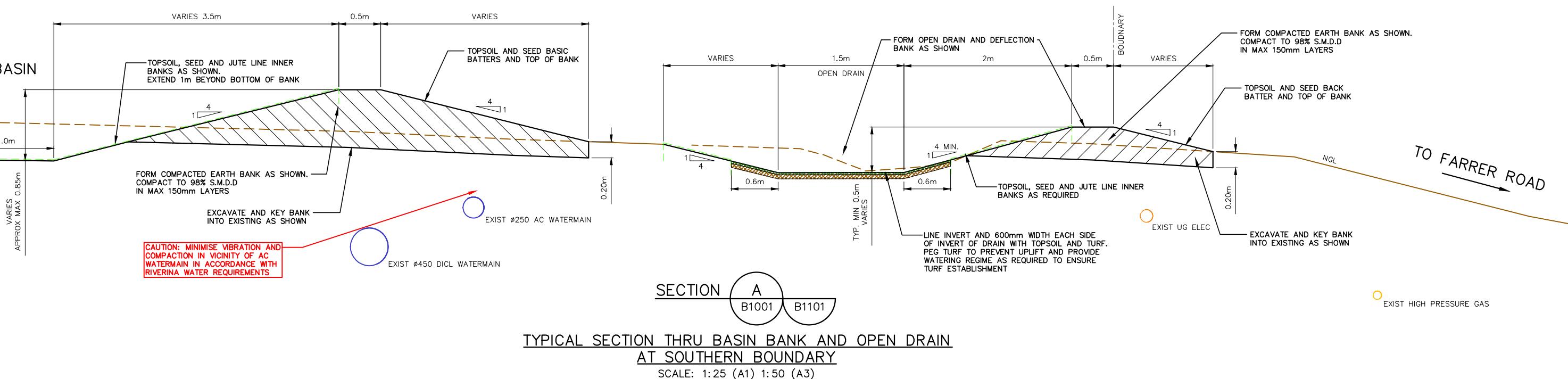
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Project:  
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ST. MARY'S RAINBOW PRESCHOOL  
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Sheet Title: STORMWATER DETAILS 2/5  
Client: COLLIER'S INTERNATIONAL  
Scale: 1:10 (A1) 1:20 (A3) OR AS SHOWN  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
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Approved:  
Sheet Number: DE2002  
Revision Number: P17

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No.	DATE	DETAILS



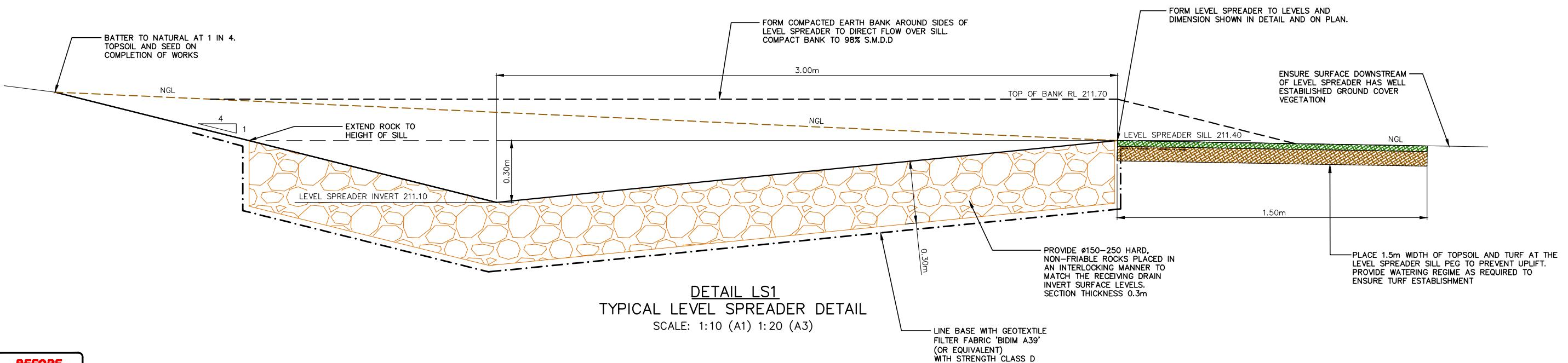
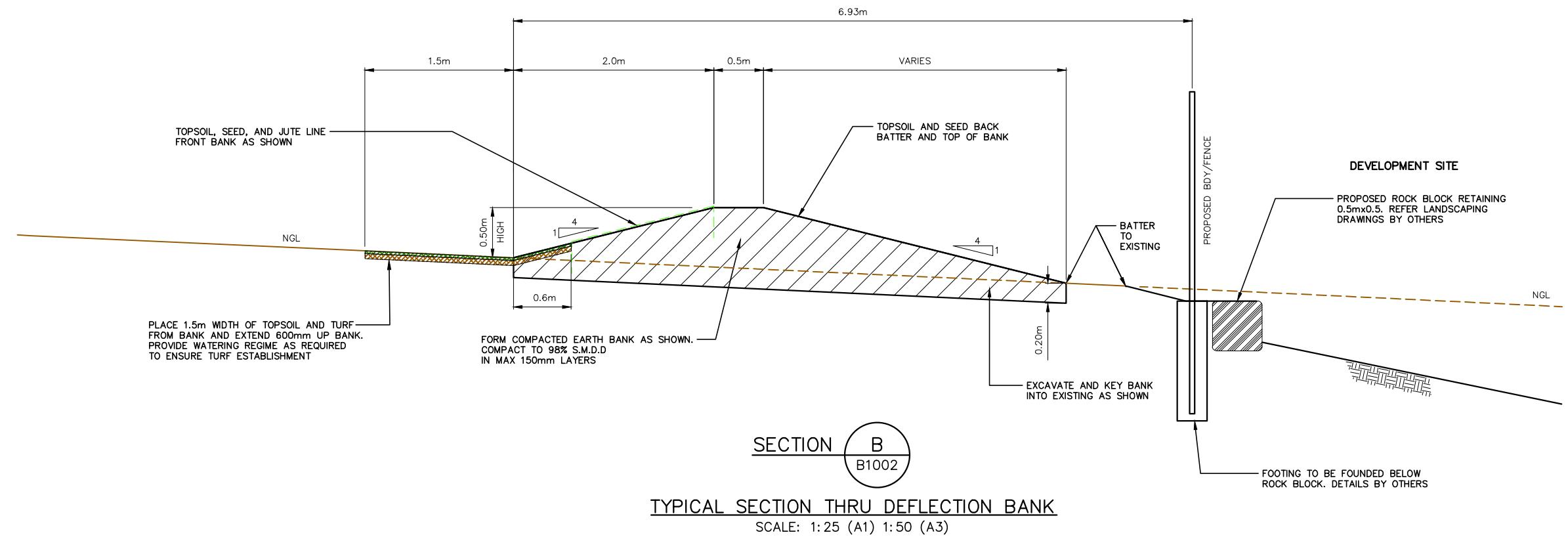
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Project:  
**PROPOSED CIVIL WORKS  
ST. MARY'S RAINBOW PRESCHOOL  
FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678**

## SECTION X-X

2011-1-25 (11) 4-52-1

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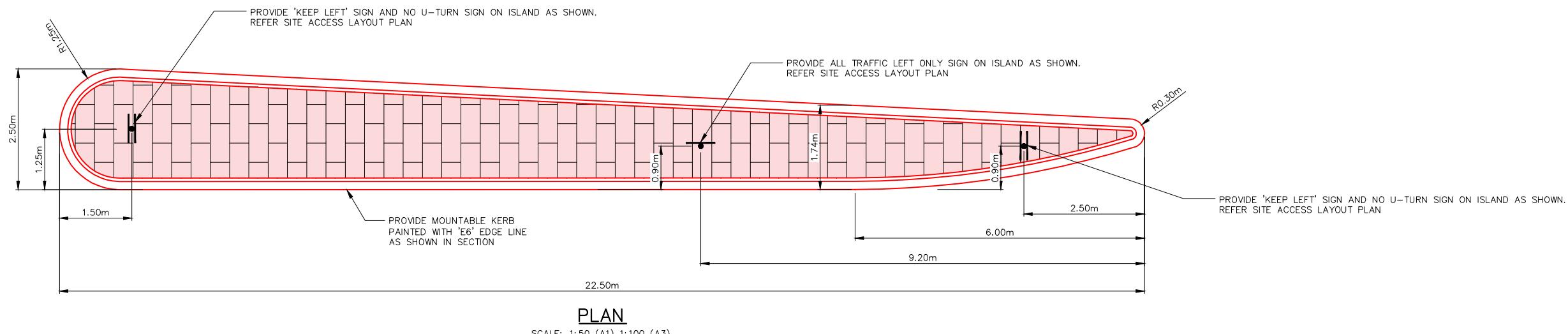
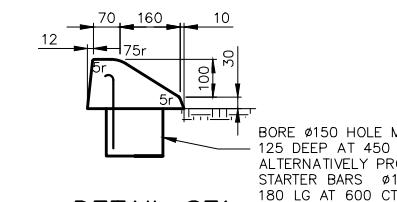
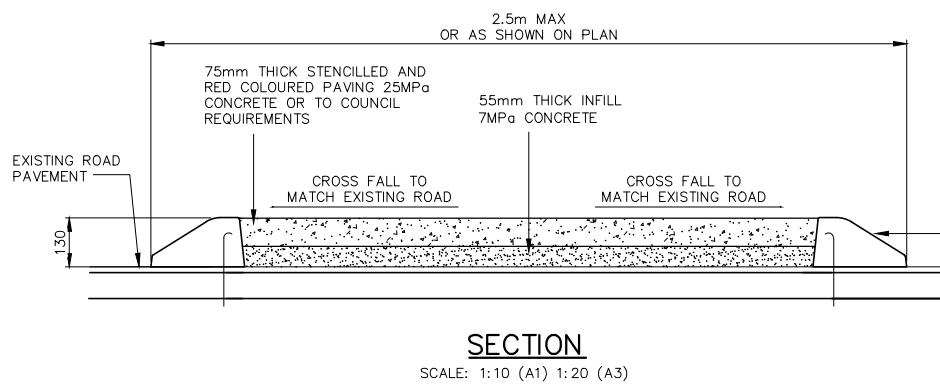
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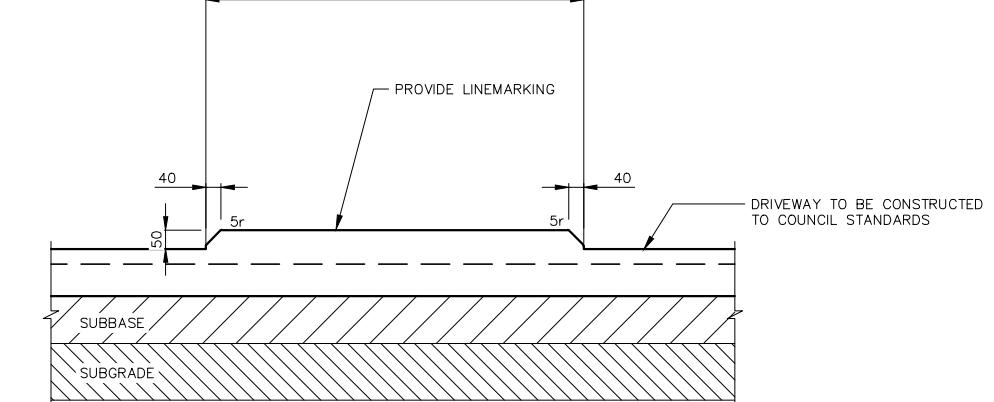
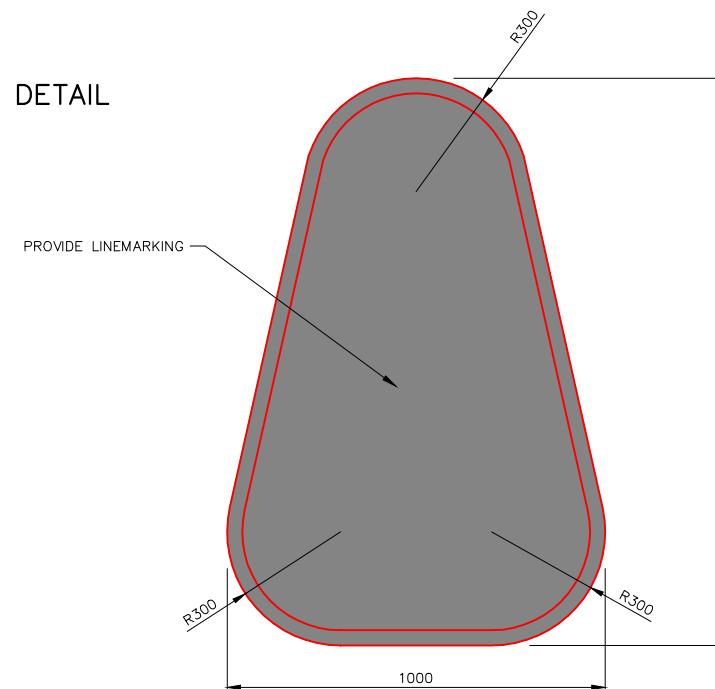
Project: PROPOSED CIVIL WORKS  
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Sheet Title: STORMWATER DETAILS 4/5  
Client: COLLIER'S INTERNATIONAL  
Scale: AS SHOWN  
Design: S.X Drawn: N.T Date: MAR 2024

Project Number: 230728  
Checked: \_\_\_\_\_  
Approved: \_\_\_\_\_  
Sheet Number: DE2004  
Revision Number: P17



DETAIL R1  
TYPICAL RAISED ISLAND DETAIL



DETAIL R2  
TYPICAL DRIVEWAY ISLAND DETAIL



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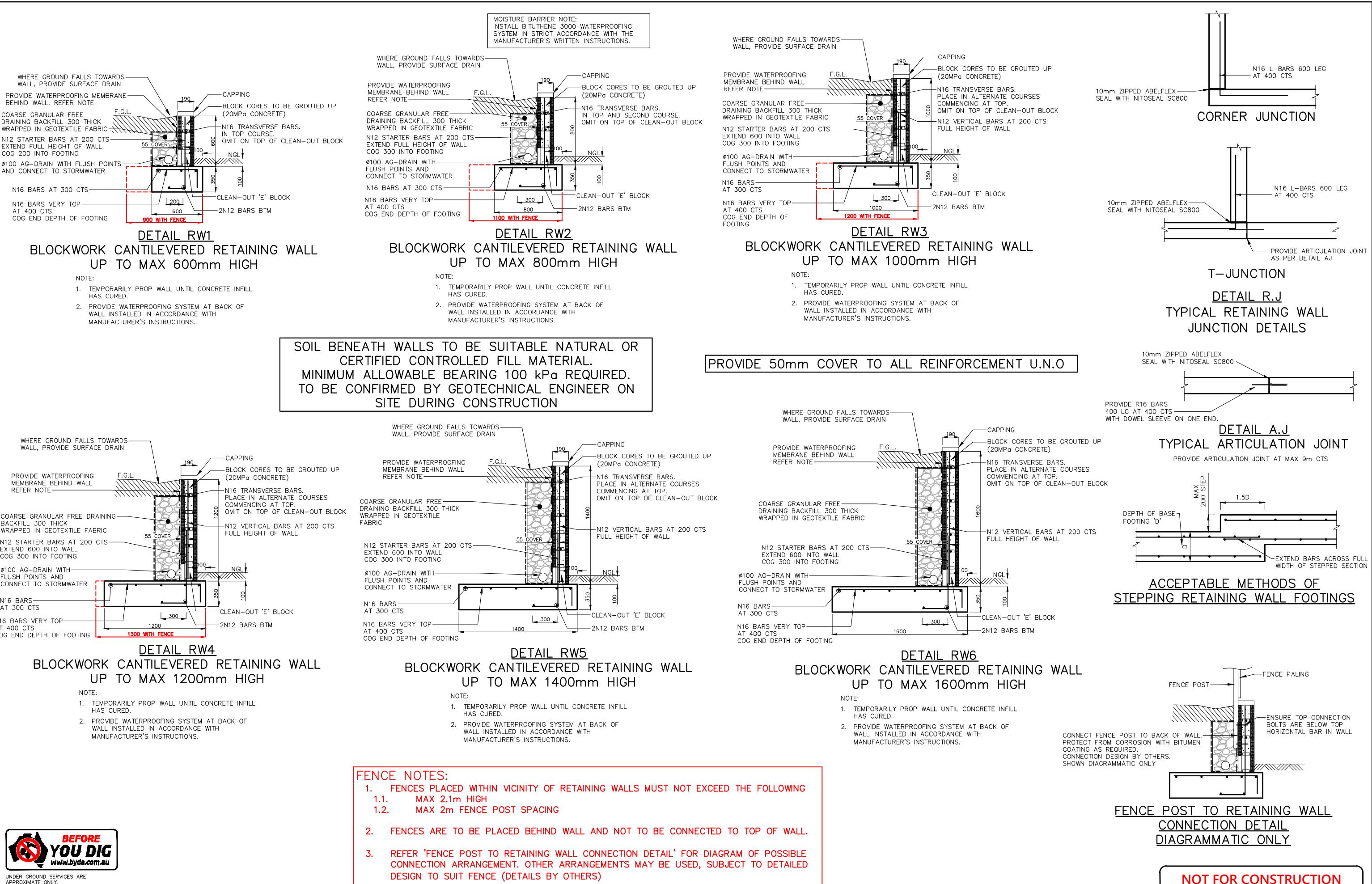
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Project: PROPOSED CIVIL WORKS  
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Sheet Title: STORMWATER DETAILS 5/5  
Client: COLLIER'S INTERNATIONAL  
Scale: AS SHOWN  
Design: S.X  
Drawn: N.T  
Date: MAR 2024

Project Number: 230728  
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Approved:  
Sheet Number: DE2005  
Revision Number: P17

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P17	08.05.2025	PATH ALIGNMENT AMENDED AND SIGNAGE ADDED	S.X
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No.	DATE	DETAILS	BY



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Project: PROPOSED CIVIL WORKS  
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Sheet Title: RETAINING WALL DETAILS	Project Number: 230728
Client: COLLIER'S INTERNATIONAL	Checked:
Scale: AS SHOWN	Approved:
Design: S.X	Date: MAR 2024
Drawn: N.T	Sheet Number: DE3001
	Revision Number: P17

## SITE MANAGEMENT NOTES

- CONTRACTOR TO PLAN DAYS ACTIVITIES TO ENSURE THAT TRENCHES EXCAVATED ARE BACKFILLED ON THE SAME DAY AND THE FINISHED SURFACE TOPSOILED AND SEEDED ETC AS SPECIFIED. CONTRACTOR TO ENSURE THAT ALL TRENCHES ARE WHEEL ROLLED TO PREVENT SETTLEMENT
- WORKS THAT DON'T COMPLY WITH THE LAND AND WATER MANAGEMENT PLAN MAY RESULT IN A STOP WORK ORDER ON THE PROJECT. THIS STOP WORK ORDER WILL NOT BE LIFTED UNTIL THE NOMINATED WORKS HAVE BEEN RECTIFIED. NO EXTENSION TO THE CONTRACT PERIOD WILL BE ALLOWED FOR FOLLOWING THE STOP WORK ORDER.
- IF SITE CONDITIONS ARE SUCH THAT VEHICLE MOVEMENTS WILL DAMAGE THE EXISTING LAND COVER, REFER TO THE SUPERINTENDENT FOR INSTRUCTION.
- ALL DISTURBED AREAS TO HAVE 75 MM TOPSOIL. IF COMPACTED, RIP TO LOSENSE AND SEED AS SPECIFIED.
- WHERE CONTRACTOR DISTURBS AREAS WHICH ARE NOT REQUIRED FOR THE EXECUTION OF THE WORKS, THE CONTRACTOR WILL STABILIZE THE AREAS AT HIS OWN COST TO THE SATISFACTION OF THE SUPERINTENDENT. LIMIT OF WORKS 3M FROM BATTER LINE OR 5M FROM PIPE TRENCH.
- EROSION CONTROL
  - CONTRACTOR TO CONSIDER POTENTIAL FUTURE EROSION PROBLEMS IN ALL STAGES OF WORKS. IF THERE IS A POTENTIAL PROBLEM THAT HAS NOT ALREADY BEEN ACCOUNTED FOR, XEROS PICCOLO CONSULTING ENGINEERS ARE TO BE CONTACTED
  - VEGETATION TO BE PRESERVED AS MUCH AS POSSIBLE. WHERE SEEDLINGS ARE GROWING ON STEEP BATTERS PROVIDE MULCHES TO CONSERVE MOISTURE AND PROMOTE GROWTH.
  - PROVIDE SILT FENCES OR STRAW BALES AS SHOWN ON PLANS OR AS NOMINATED BY THE SUPERINTENDENT
  - SILT FENCES TO BE MOVED DURING CONSTRUCTION TO SUIT LOCATION OF CURRENT WORKS
- TOPSOIL STOCKPILES SITES TO BE SEEDED WITH PERENNIAL RYE GRASS AT 25KG/HA AND RYE CORN AT 5KG/HA TO PREVENT SOIL MIGRATION.
- ALL COMPLETED BATTERS, SWALE DRAINS, DEFLECTION BANKS ETC TO BE LIGHTLY RIPPED 50mm DEEP, COVERED WITH 75 MM TOPSOIL AND SEEDED AS SPECIFIED. ON COMPLETION PROVIDE 1 PASS WITH PAD FOOT ROLLER.
- AS ASPECTS OF WORK ARE COMPLETED, TOPSOIL AND SEED AS DETAILED WITHIN 3 WORKING DAYS
- SURPLUS SPOIL STOCKPILE LOCATION TO BE DETERMINED ON SITE.

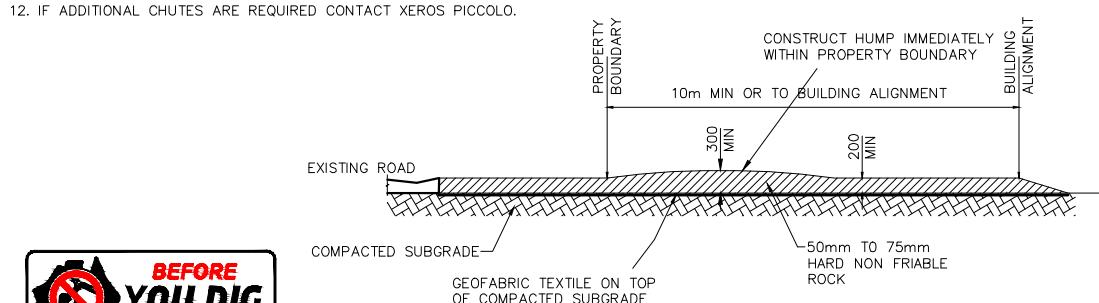
## CONSTRUCTION SEQUENCE

- BEFORE/DURING STRIPPING OF TOPSOIL
  - CONSTRUCT DEFLECTION BANKS AROUND TOPSOIL STOCKPILE AND ASSOCIATED SILT FENCES.
  - CONSTRUCT 200 HIGH PUSH UP BANKS AND ASSOCIATED SILT FENCES.
- CONSTRUCTION OF 300 HIGH DEFLECTION BANKS AND BUNDING FORMED FROM BULK EARTHWORKS AND ASSOCIATED SILT FENCES CONSTRUCTED AS DETAILED.
- STOCKPILE TO BE SEEDED AS SPECIFIED WITHIN 7 WORKING DAYS.
- AFTER CONSTRUCTION OF DRAINAGE LINES DISTURBED AREAS TO BE RECTIFIED AS DETAILED WITHIN 7 DAYS OF BACKFILLING.
- REMOVABLE STRAW BALE SILT FENCE TO BE AVAILABLE ON SITE FOR PROTECTION OF THE SITE IF RAIN IMMINENT.
- SERVICES TO BE INSTALLED PRIOR TO TOPSOILING AND SEEDING OF BATTERS AND FOOTPATHS.

## REHABILITATION & REGENERATION NOTES

PREPARE AREA TO BE REHABILITATED AND REGENERATED AS PER SPECIFICATIONS

- AREAS SHOULD BE RESHAPED TO BLEND IN WITH NATURAL LANDSCAPE AS MUCH AS POSSIBLE. STABILIZE WHERE REQUIRED
- SITE TO BE SHAPED TO BE FREE DRAINING WHERE POSSIBLE
- TYNE COMPACTED AREAS TO IMPROVE 'ROUGHNESS' AT THE SEED BED IN PREPARATION FOR TOPSOIL. DEEP RIPPING MAY BE REQUIRED FOR HARD PAVEMENTS.
- REDUCE ALL SLOPES TO A GRADIENT OF 1:3 OR LESS. BENCH IN THE AREAS WHERE SLOPE LENGTHS EXCEED 15m. WHERE BENCHING IS NOT PRACTICAL PROVIDE CONTOUR BANK MIN 500mm HIGH.
- SPREAD TOP SOIL AND LEAVE WITH ROUGH SURFACE. CARE TO BE TAKEN TO ENSURE THAT TOP SOIL IS NOT TOO WET AS THIS WILL NOT PERFORM ADEQUATELY.
- IF ADDITIONAL CHUTES ARE REQUIRED CONTACT XEROS PICCOLO.



STABILIZED ACCESS POINT SD 6-14

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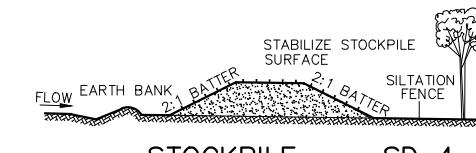
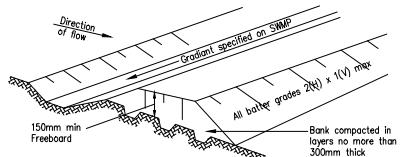
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## SEEDING NOTES

- SEEDING TO BE PROVIDED AS SPECIFIED ON PLANS
- SEED IS TO BE PLANTED AS PER STANDARD PRACTICE IN REGARDS TO WATERING AND PLANTING SEASON. USE HIGH QUALITY SEEDS THAT DON'T CONTAIN NOXIOUS WEEDS.
- CONTRACTOR TO TAKE INTO ACCOUNT SEASON AND WEATHER PRIOR TO SEEDING TO ALLOW SEED THE BEST OPPORTUNITY TO GERMINATE.
- ALL DISTURBED AREAS THAT ARE NOT BEING USED FOR A TRACK OF OTHER PURPOSES ARE TO BE TOPSOILED AND SEEDED.
- PREPARE A SMOOTH SEEDBED AND APPROX. 75MM - 100MM OF TOPSOIL. GRADE SMOOTHLY TO REMOVE IRREGULARITIES AND FOOT PRINTS. SEED, FERTILIZE AND WATER.
- WATERING SHOULD START IMMEDIATELY AFTER PLANTING. WATERING SHOULD COMPLY WITH SPECIFICATIONS SUPPLIED WITH APPROVED SEED. WATERING SHOULD VARY DEPENDING ON WEATHER, SEASON AND SOIL CONDITIONS. BUT AS A MINIMUM THE FOLLOWING SHOULD BE DONE.
  - 25MM EVERY SECOND DAY FOR THE FIRST THREE WATERINGS
  - 25MM TWICE A WEEK FOR THE NEXT THREE WEEKS
  - 25MM ONCE WEEKLY FOR A FURTHER TWO WEEKS.
- IF BATTER SLOPE OF DISTURBED AREA IS 1 IN 4 OR GREATER PROVIDE JUTE LINING. ALL DEDICATED DRAINAGE PATHS SHALL BE JUTE LINED. REFER JUTE LINING NOTES AND DETAILS

## TURFING NOTES

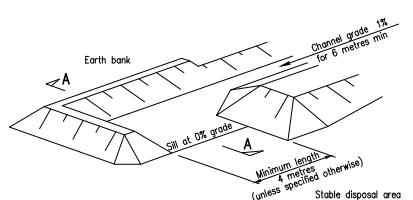
- TURFING TO BE PROVIDED AS SPECIFIED ON PLANS
- PREPARATION
  - REMOVE ANY EXISTING TURF, WEEDS AND DEBRIS FROM ALL AREAS TO BE TURFED. CULTIVATE EXISTING SUBGRADE TO 100MM DEPTH
- TOPSOIL
  - ALL TOPSOIL SHALL COMPLY WITH AS4419 'SOILS FOR LANDSCAPING AND GARDEN USE'.
  - TOPSOIL SHALL BE A SOIL BLEND WITH MAX. 30% SCREENED COMPOSTED ORGANIC MATTER, HYDRAULIC CONDUCTIVITY 15-30CM/HR. PH RANGE TO BE 5.6-5.5.
  - AFTER APPROVAL OF THE PROPOSED TOPSOIL, DEPOSIT AND SPREAD TOPSOIL TO ACHIEVE 100MM THICKNESS TO ALL DISTURBED AREAS
- TURFING
  - TURF SHALL BE 'KIKUYU' UNLESS OTHERWISE DIRECTED BY A LANDSCAPE ARCHITECT OR SUPERINTENDENT. TURF SHALL BE 'A' GRADE, TYPICAL OF THE SPECIES, FREE FROM ALL PESTS, DISEASES, WEEDS AND OTHER PLANT MATTER.
  - TURF SHALL BE GUARANTEED FREE FROM NUT GRASS, 'CYPERUS ROTUNDUS'.
  - TURF SHALL BE CUT TO A MINIMUM 25MM THICK IN LONG 300MM WIDE STRIPS.
  - LAYING
    - LAY PIECES OF TURF IN STRAIGHT LINES RUNNING PERPENDICULAR TO THE SLOPE, WITH CROSS JOINTS STAGGERED, AND CLOSE BUTTING.
    - LAY TURF WITH AN EVEN GRADIENT, FREE FROM LUMPS AND DEPRESSIONS AND NOT ABLE TO POND WATER. ENSURE THAT NEW TURF FINISHES FLUSH WITH EXISTING GRASS OR TURF.
    - TAMP DOWN AND FILL ALL JOINTS WITH TOP DRESSING. TOP DRESSING IS TO BE PIT SAND TO COMPLY WITH AS4419. SPREAD SAND EVENLY OVER SURFACE OF GRASS IN LAYERS OF NOT MORE THAN 10MM. DO NOT BURY GRASS.
  - TOP DRESSING
    - WHEN TURFED AREAS HAVE BECOME ESTABLISHED AND IMMEDIATELY AFTER THE FIRST CUT, TOP DRESS TURF WITH 10MM LAYER OF TOP DRESSING TO AS4419.
    - DO NOT TOP DRESS DURING WINTER MONTHS UNLESS DIRECTED BY SUPERINTENDENT
  - PROTECTION - ALL NEW TURF SHALL BE PROTECTED FROM TRAMPLING BY THE ERECTION OF BARRIERS.



STOCKPILE SD 4-1

### CONSTRUCTION NOTES

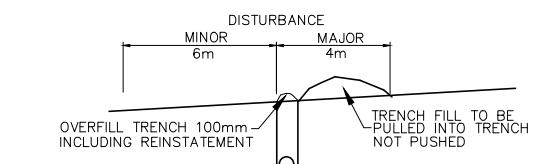
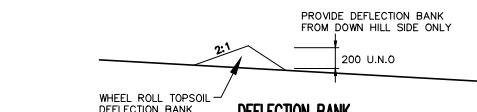
- LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS & HAZARD AREAS.
- CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.
- WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.
- CONSTRUCT EARTH BANK (STANDARD DRAWING 5-2) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE & A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.



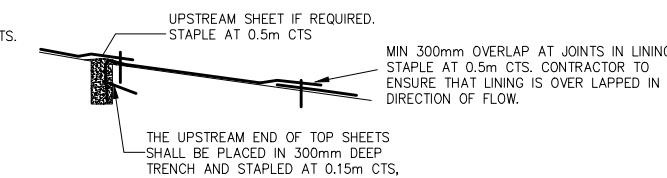
LEVEL SPREADER (OR SILL)

## JUTE LINING NOTES

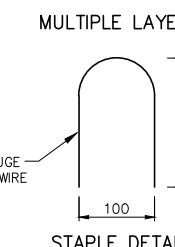
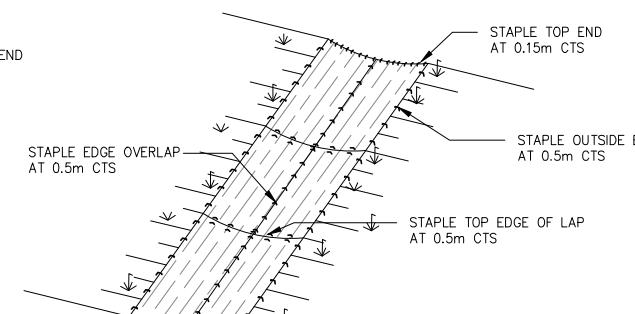
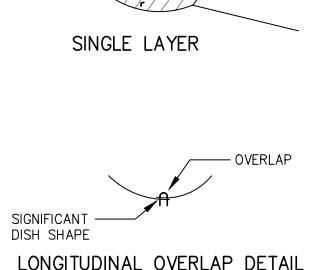
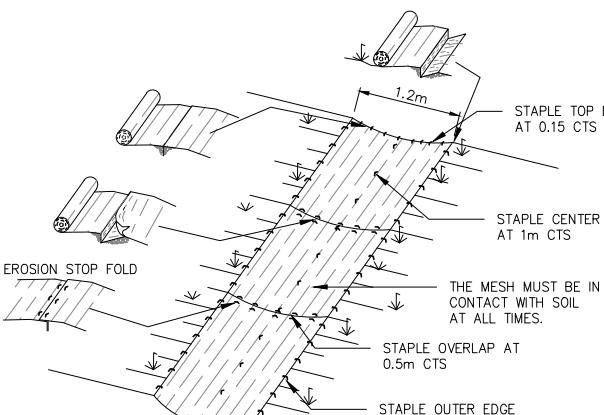
- JUTE LINING TO BE PROVIDED AS SPECIFIED ON PLANS
- CONTRACTOR TO COMPLY WITH ALL MANUFACTURER'S REQUIREMENTS OF THE SELECTED PRODUCT BUT MUST MEET THE BELOW REQUIREMENTS AS A MINIMUM.
  - REFER TO APPROVED PLANS AND NOTES FOR THE LOCATION AND EXTENT OF WORKS REQUIRED.
  - SOI SURFACE IRREGULARITIES AND ROCKS ON SURFACE ARE TO BE REMOVED.
  - PREPARE A SMOOTH SEEDBED AND APPROX. 75MM OF TOPSOIL. GRADE SMOOTHLY TO REMOVE IRREGULARITIES AND FOOT PRINTS. COMPLETE ALL SEEDING, FERTILIZING AND WATERING PRIOR TO LAYING MATTING
  - PREFERABLY STARTING AT THE DOWN STREAM END, ALIGN FABRIC ROLLS IN THE DIRECTION OF THE FLOW. IF THE AREA IS SUBJECT TO MULTIPLE FLOWS, ALIGN WITH DOMINANT FLOW.
  - WHEN SPREADING THE FABRIC DO NOT STRETCH THE TEXTILE MESH. THE BLANKETS MUST BE IN GOOD CONTACT WITH GROUND AT ALL POINTS.
  - FABRIC BLANKETS TO BE STAPLED AT 1M CTS IN EXPOSED AREAS AND 0.5M CTS ALONG ALL EDGES
  - THE UPSTREAM END OF TOP MOST SHEETS SHALL BE PLACED IN A 300MM DEEP TRENCH, STAPLED AT 0.15M CTS, BURIED AND TAMPED. REFER DETAIL
  - MINIMUM EVERY THIRD SHEET TO BE PLACED IN A 300MM DEEP TRENCH, STAPLED AT 0.15M CTS, BURIED AND TAMPED. REFER DETAIL
  - OVERLAP ENDS BY 300MM WITH THE UPSTREAM SHEET PLACED OVER THE DOWNSTREAM SHEET. STAPLE AT 0.5M CTS
  - STAPLES SHOULD BE A "U" SHAPE 8 GAUGE WIRE 100MM WIDE WITH 150-300MM PENETRATION LENGTH
  - WHEREVER THE BLANKET DOES NOT TOUCH THE GROUND ADDITIONAL STAPLES MUST BE PLACED.



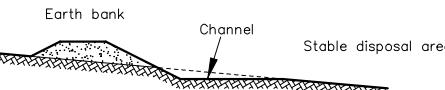
TRENCH DISTURBANCE



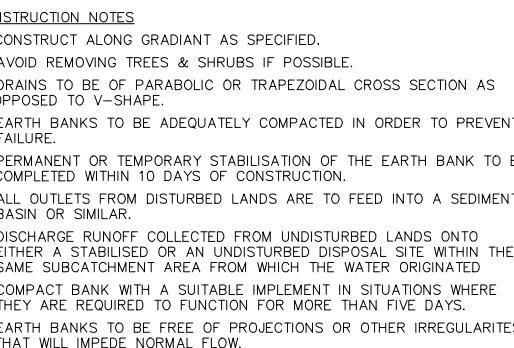
TRANSVERSE OVERLAP DETAIL



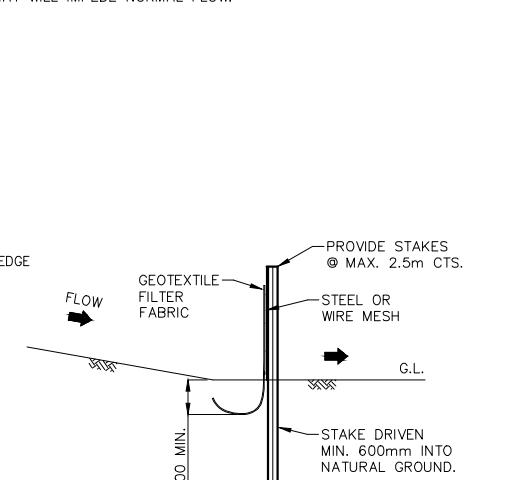
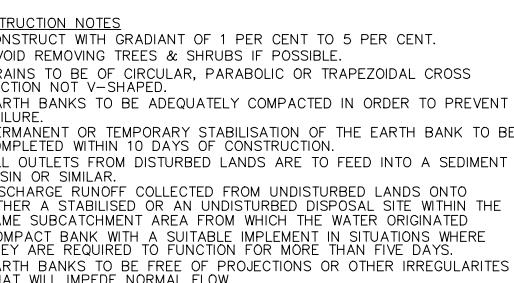
## JUTE LINING DETAIL



SECTION A-A  
EARTH BANK(HIGH FLOW) SD 5-3  
FOR CATCHMENT > 2ha



EARTH BANK(LOW FLOW) SD 5-5  
FOR CATCHMENT < 2ha



NOT FOR CONSTRUCTION



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FARRER ROAD  
CHARLES STURT UNIVERSITY NSW 2678

Sheet Title: SEDIMENT AND EROSION CONTROL DETAILS  
Client: COLLIER'S INTERNATIONAL  
Scale: AS SHOWN  
Design: S.X Drawn: N.T Date: MAR 2024  
Project Number: 230728  
Sheet Number: DE4001 P17  
Revision Number: