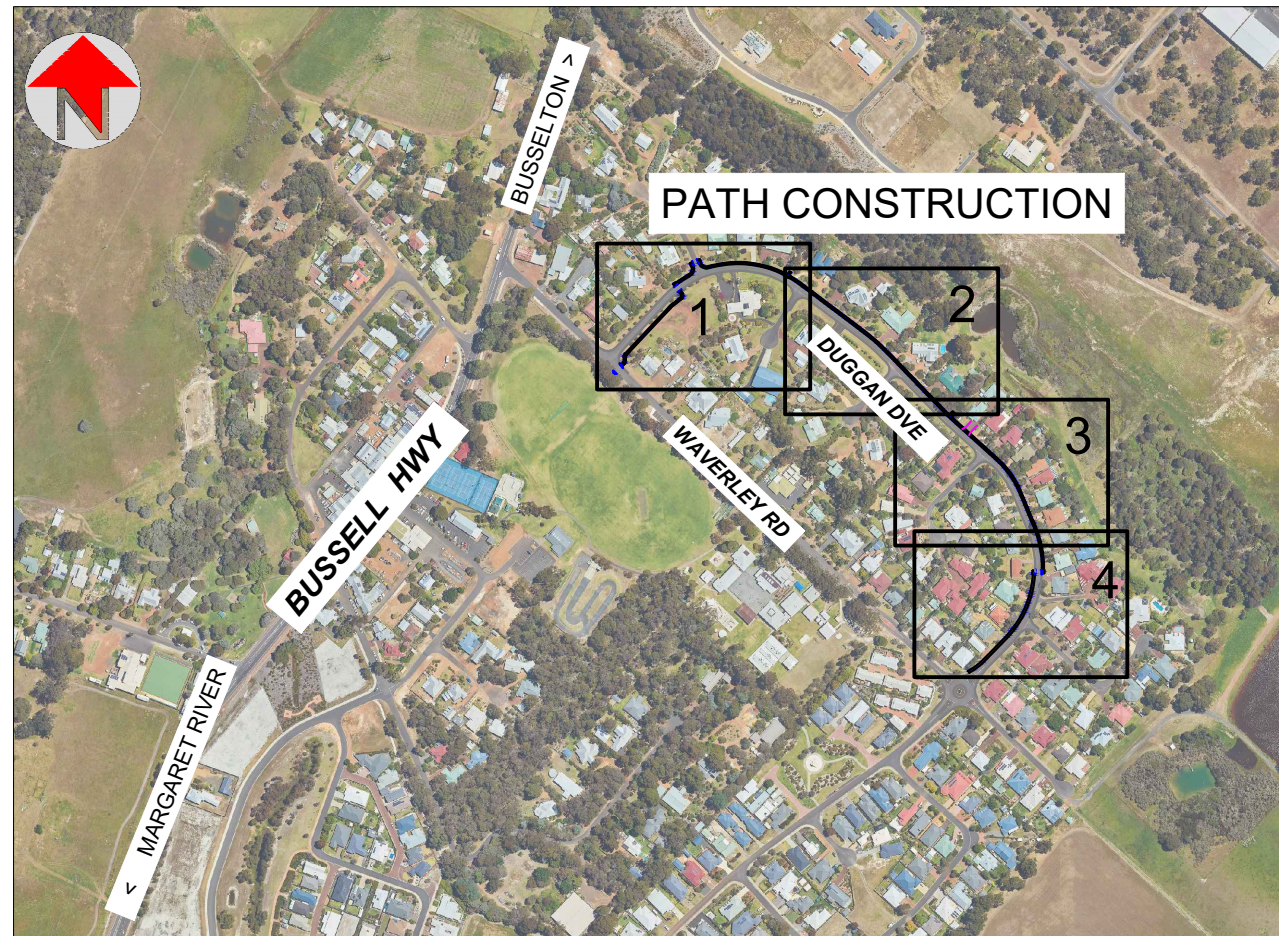
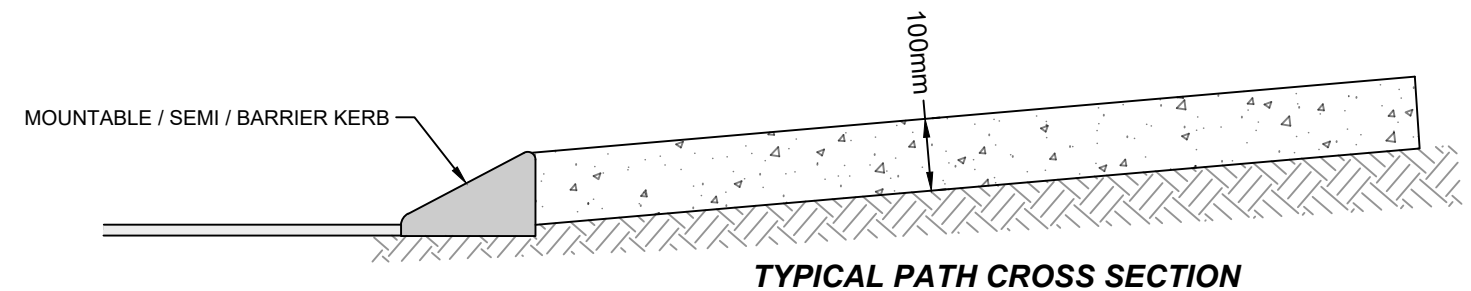
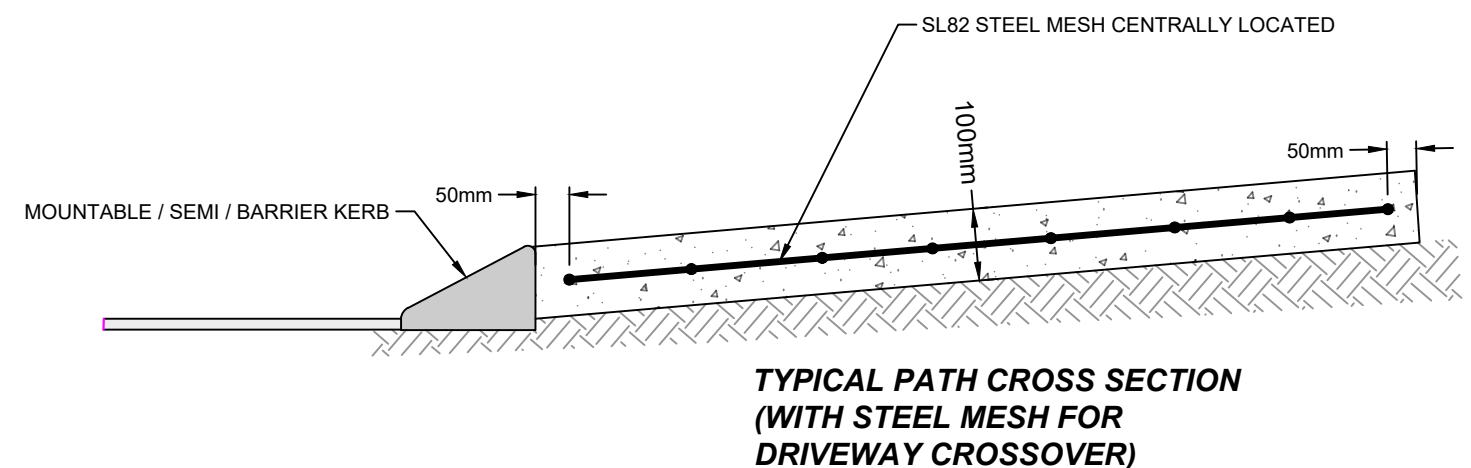


SHIRE OF AUGUSTA MARGARET RIVER SHARED PATH CONSTRUCTION DUGGAN DRIVE COWARAMUP

Project Number PXN 048

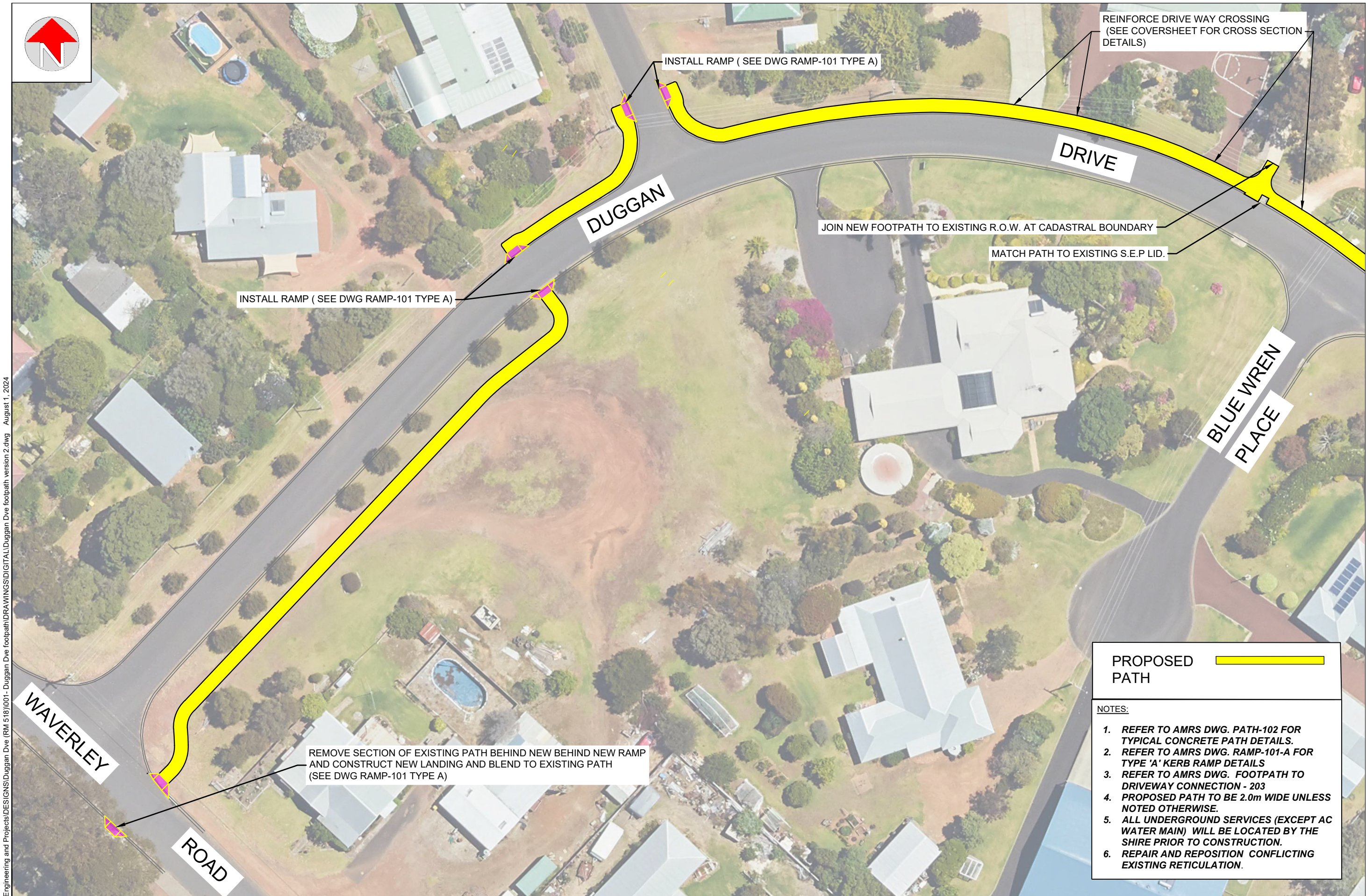


LOCATION PLAN



QUANTITIES

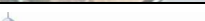
1. CONCRETE FOOTPATH (NOT INCLUDING RAMPS) = 1460m² (725m)
2. PEDESTRIAN RAMP TYPE A = 8
3. DRIVEWAY CROSS OVERS = 24 (INCLUDING 1 DOUBLE)



PROPOSED PATH

NOTES:

- REFER TO AMRS DWG. PATH-102 FOR TYPICAL CONCRETE PATH DETAILS.
- REFER TO AMRS DWG. RAMP-101-A FOR TYPE 'A' KERB RAMP DETAILS
- REFER TO AMRS DWG. FOOTPATH TO DRIVEWAY CONNECTION - 203
- PROPOSED PATH TO BE 2.0m WIDE UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND SERVICES (EXCEPT AC WATER MAIN) WILL BE LOCATED BY THE SHIRE PRIOR TO CONSTRUCTION.
- REPAIR AND REPOSITION CONFLICTING EXISTING RETICULATION.

X:\Works\Technician	REV.	DATE	COMMENT	APPROVED :  Chris Yates		 SHIRE of MARGARET RIVER	PROJECT TITLE		DUGGAN DRIVE PATH CONSTRUCTION				FOR CONSTRUCTION							
	A	JUNE 24	ISSUED FOR COMMENT	(MUST BE SIGNED FOR CONSTRUCTION ISSUE)			SHEET TITLE		PATH ALIGNMENT - 1 of 4				DWG No. RM518-001-370							
	DRAWN	EB	DESIGNED	EB							JOB No. PXN048		SCALE 1:500		DATE 30/07/24		REV No. 0			
	0	30/07/24	ISSUED FOR CONSTRUCTION																	
				Horizontal:	Approx MGA. Zone 50.	Orig. Size														
				Vertical:	A.H.D.	A3														



X:\Works\Technical Engineering and Projects\DESIGNS\Duggan Dve (RM 518)\001- Duggan Dve footpath\DRAWINGSD\DIGITAL\Duggan Dve footpath version 2.dwg August 1, 2024

REV.	DATE	COMMENT
A	JUNE 24	ISSUED FOR COMMENT AND REVIEW
0	30/07/24	ISSUED FOR CONSTRUCTION

APPROVED : <small>(MUST BE SIGNED FOR CONSTRUCTION ISSUE)</small>			
DRAWN	EB	DESIGNED	EB
SURVEY	EB	CHECKED	CY
Horizontal:	Approx MGA.	Zone 50.	Orig. Size
Vertical:	A.H.D.		A3



SHIRE of AUGUSTA
MARGARET RIVER

PROJECT TITLE	DUGGAN DRIVE PATH CONSTRUCTION
SHEET TITLE	PATH ALIGNMENT 2 of 4

FOR CONSTRUCTION			
DWG No.	RM518-001-371		
JOB No.	PXN048	SCALE	1:500
DATE	30/07/24	REV No.	0

PROPOSED
PATH



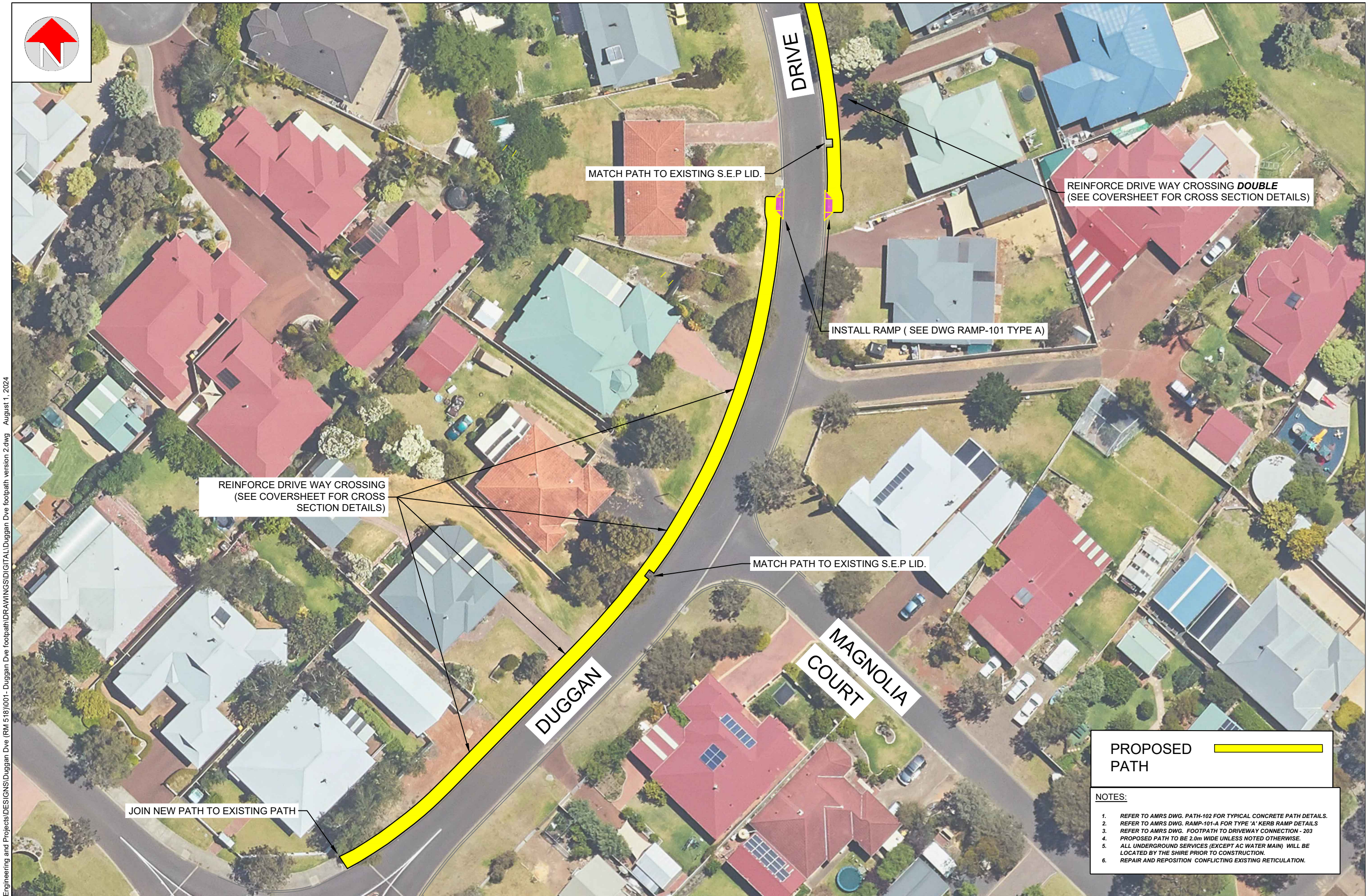
NOTES:

- REFER TO AMRS DWG. PATH-102 FOR TYPICAL CONCRETE PATH DETAILS.
- REFER TO AMRS DWG. RAMP-101-A FOR TYPE 'A' KERB RAMP DETAILS
- REFER TO AMRS DWG. FOOTPATH TO DRIVEWAY CONNECTION - 203
- PROPOSED PATH TO BE 2.0m WIDE UNLESS NOTED OTHERWISE.
- ALL UNDERGROUND SERVICES (EXCEPT AC WATER MAIN) WILL BE LOCATED BY THE SHIRE PRIOR TO CONSTRUCTION.
- REPAIR AND REPOSITION CONFLICTING EXISTING RETICULATION.



X:\Works\Technical Engineering and Projects\DESIGNS\Duggan Dve (RM 518)\001- Duggan Dve footpath\DRAWINGSDIGITAL\Duggan Dve footpath version 2.dwg August 1, 2024

X:\Works\Technic	REV.	DATE	COMMENT	APPROVED :  Chris Yates			SHIRE of AUGUSTA MARGARET RIVER	PROJECT TITLE DUGGAN DRIVE PATH CONSTRUCTION				FOR CONSTRUCTION			
	A	JUNE 24	ISSUED FOR COMMENT AND REVIEW	(MUST BE SIGNED FOR CONSTRUCTION ISSUE)				DWG No. RM518-001-372							
	0	30/07/24	ISSUED FOR CONSTRUCTION	DRAWN	EB			DESIGNED	EB	JOB No.	SCALE	DATE	REV No.		
				SURVEY	EB			CHECKED	CY	PXN048	1:500	30/07/24	0		
				Horizontal:	Approx MGA. Zone 50.			Orig. Size	A3	SHEET TITLE PATH ALIGNMENT 3 of 4					
			Vertical:	A.H.D.											



X:\Works\Technical Engineering and Projects\DESIGNS\Duggan Dve (RM 518)001- Duggan Dve footpath\DRAWINGS\DIGITAL\Duggan Dve footpath version 2.dwg August 1, 2024

REV.	DATE	COMMENT
A	JUNE 24	ISSUED FOR COMMENT AND REVIEW
0	30/07/24	ISSUED FOR CONSTRUCTION

APPROVED : <small>(MUST BE SIGNED FOR CONSTRUCTION ISSUE)</small>			
DRAWN	EB	DESIGNED	EB
SURVEY	EB	CHECKED	CY
Horizontal:	Approx MGA. Zone 50.	Orig. Size	A3
Vertical:	A.H.D.		



SHIRE of AUGUSTA
MARGARET RIVER

PROJECT TITLE	DUGGAN DRIVE PATH CONSTRUCTION
SHEET TITLE	PATH ALIGNMENT 4 of 4

FOR CONSTRUCTION			
DWG No.	RM518-001-373		
JOB No.	PXN048	SCALE	1:500
DATE	30/07/24	REV No.	0

PROPOSED
PATH

NOTES:

1. REFER TO AMRS DWG. PATH-102 FOR TYPICAL CONCRETE PATH DETAILS.

2. REFER TO AMRS DWG. RAMP-101-A FOR TYPE 'A' KERB RAMP DETAILS

3. REFER TO AMRS DWG. FOOTPATH TO DRIVEWAY CONNECTION - 203

4. PROPOSED PATH TO BE 2.0m WIDE UNLESS NOTED OTHERWISE.

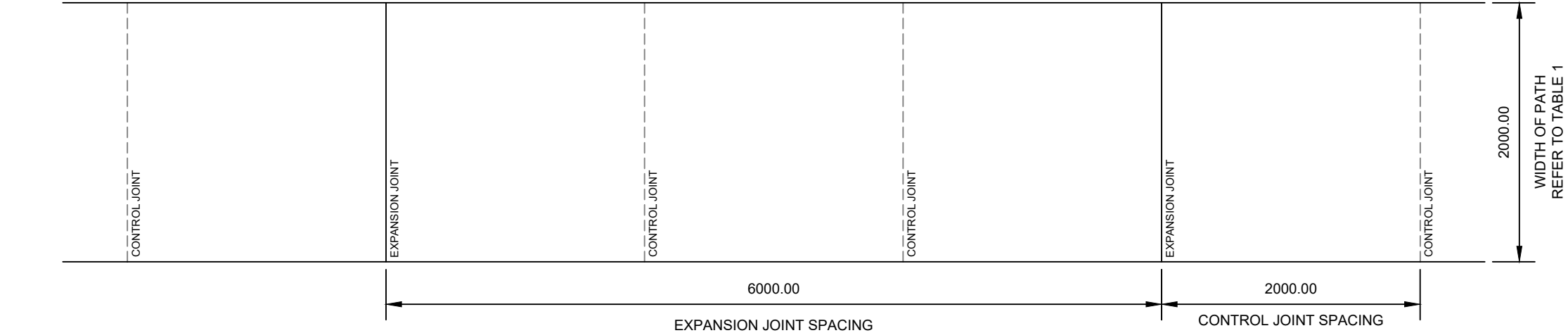
5. ALL UNDERGROUND SERVICES (EXCEPT AC WATER MAIN) WILL BE LOCATED BY THE SHIRE PRIOR TO CONSTRUCTION.

6. REPAIR AND REPOSITION CONFLICTING EXISTING RETICULATION.

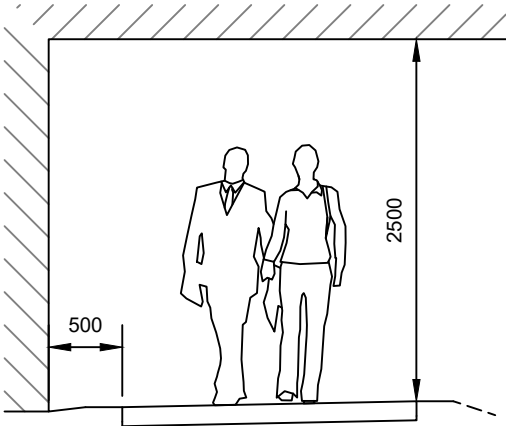
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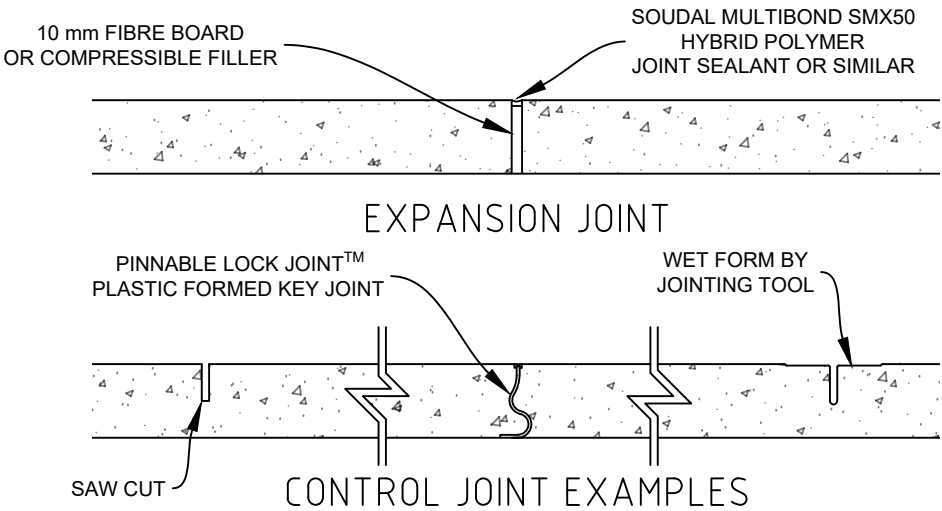
- 1.) DESIRABLE MINIMUM WIDTH FOR GENERAL USE PATH SHALL BE 2.0 m. REFER TO TABLE 1 FOR ALTERNATIVE PATH WIDTH REQUIREMENTS.
- 2.) BACK FILL WITH CLEAN FILL, GRAVEL OR TOP SOIL TO SUIT SURROUNDING GROUND LEVEL.
- 3.) PATH SHALL BE FREE OF ALL TRIP HAZARDS AND SHALL BE BROOM SWEEP PERPENDICULAR TO THE REGULAR DIRECTION OF TRAVEL SO TO ACHIEVE A NON-SLIP SURFACE.
- 4.) PATHS MUST BE MAXIMUM 1:40 (2.5%) CROSSFALL (PERPENDICULAR TO DIRECTION OF TRAVEL).
- 5.) DESIRABLE MAXIMUM LONGITUDINAL GRADE OF PATH SHOULD BE 1:20. ABSOLUTE MAXIMUM LONGITUDINAL GRADE OF PATH SHALL BE 1:14 WHERE LEVEL PLATFORMS ARE PROVIDED AT 9 m INTERVALS.
- 6.) 'EXPANSION JOINTS' SHALL BE PROVIDED AT LOCATIONS SHOWN AND FILLED, FULL DEPTH AND FULL WIDTH WITH A 10mm THICK FIBRE BOARD OR COMPRESSIBLE FILLER AND SEALED WITH A BEAD OF SODAL MULTIBOND SMX50 HYBRID POLYMER TRAFFICABLE JOINT SEALANT OR APPROVED SIMILAR.
- 7.) 'CONTROL JOINTS' SHALL BE PROVIDED AT LOCATIONS SHOWN WITH A LOCK JOINT™ PLASTIC FORMED 'KEY JOINT' PRODUCT OR SAW CUT TO A MIN DEPTH OF ¼ THICKNESS OF CONCRETE, OR WET FORMED WITH A SUITABLE JOINTING TOOL.
- 8.) WHERE A PATH ABUTS KERBING, CONCRETE CROSSOVERS, OR SERVICE LIDS, AN ISOLATION 'EXPANSION JOINT' SHALL BE PROVIDED ALONG THE FULL LENGTH OF THE EDGE.
- 9.) PATH MUST BE SET BACK A MINIMUM 500 mm FROM EXISTING SERVICES, VEGETATION AND ANY OBSTRUCTION.
- 10.) PATH MUST MAINTAIN A MINIMUM 2500 mm VERTICAL CLEARANCE TO ANY OVERHEAD OBSTRUCTION.
- 11.) ALL PATH EDGES SHALL BE FRAMED WITH AN APPROPRIATE EDGING/Jointing TOOL.
- 12.) CONCRETE TO BE MINIMUM 25 MPa AND PLAIN CONCRETE GREY COLOUR (NO OXIDE COLOURING).



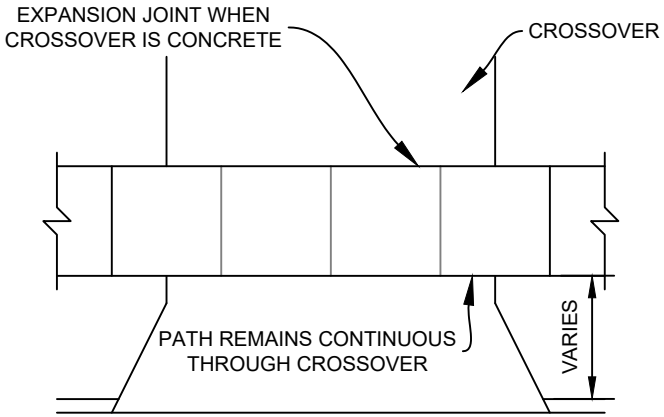
CONCRETE PATH - JOINTING PLAN



MINIMUM PATH CLEARANCES



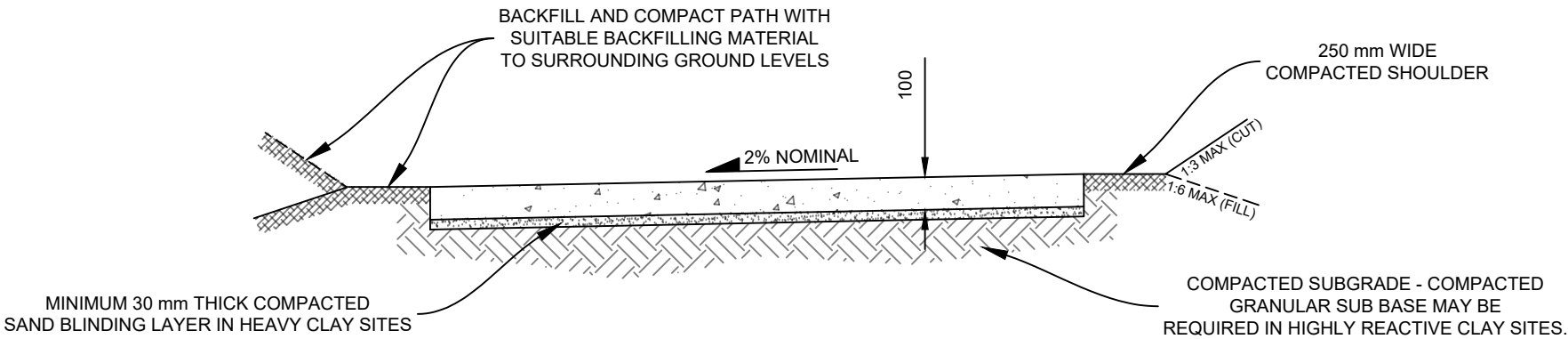
CONTROL JOINT EXAMPLES



PATH INTERFACE AT CROSSOVERS
INDICATIVE CROSSOVER SHOWN

GENERAL PATH WIDTH REQUIREMENTS		
CLASSIFICATION	PATH WIDTH	COMMENTS
CAT A: Main Paths	2.5 m	PATHS WITHIN MAIN TOWN CENTRES. HIGHEST ORDER ROADS. AREAS OR PEDESTRIAN DESTINATIONS OF REGIONAL SIGNIFICANCE.
CAT B: Distributor Paths	2.5 m	PATHS CONNECTING MAJOR PEDESTRIAN GENERATING DESTINATIONS (SUCH AS SCHOOLS, LIBRARIES, COMMERCIAL AREAS, BEACHES, CAR PARKS AND OVALS).
CAT C: Connector Paths	2.0 m	PATHS CONNECTING RESIDENTIAL AREAS WITH HIGH ORDER PATH NETWORK THAT LINKS TO PEDESTRIAN GENERATING DESTINATIONS. MAIN ARTERIAL ROUTES INTO RESIDENTIAL AREAS.
CAT D: Residential Paths	2.0 m	ALL OTHER FORMAL RESIDENTIAL PATHWAYS MOSTLY WITHIN URBAN AND RESIDENTIAL AREAS. PROVIDE DIRECT CONNECTION TO RESIDENCES OR LOCAL DESTINATIONS.

TABLE 1 - PATH WIDTH REQUIREMENTS
PATH WIDTHS OUTSIDE THESE WARRANTS ARE SUBJECT TO DESIGN, ASSESSMENT AND APPROVAL FROM THE SHIRE.



CONCRETE PATH - CROSS SECTION

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

REV.	DATE	COMMENT	APPROVED : (MUST BE SIGNED FOR CONSTRUCTION ISSUE)	PROJECT TITLE	FOR CONSTRUCTION			
A	JUNE 24	ISSUED FOR COMMENT AND REVIEW	Chris Yates	DUGGAN DRIVE PATH CONSTRUCTION	DWG No.	PATH-102		
0	30/07/24	ISSUED FOR CONSTRUCTION		SHEET TITLE	JOB No.	PXN048	SCALE	NTS
					DATE	30/07/24	REV No.	0

NOTES

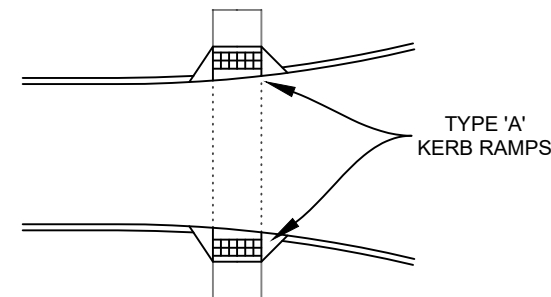
- 1.) TYPE 'A' KERB RAMPS ARE THE PREFERRED RAMPS AS THEY CAN BE ACCESSED FROM THE SIDE.
- 2.) BACK FILL WITH CLEAN FILL, GRAVEL OR TOP SOIL.
- 3.) RAMP SHALL BE FREE OF ALL TRIP HAZARDS.
- 4.) TGSIs (TACTILE GROUND SURFACE INDICATORS) MUST ALIGN TO TGSIs ON OPPOSITE SIDE OF ROAD.
- 5.) RAMP WINGS MUST BE A MAXIMUM OF 1500 mm LONG AT KERB LINE or ANGLE NO GREATER THAN 45° TO RAMP.
- 6.) KERB RAMPS MUST BE MAXIMUM 1:40 CROSSFALL (PERPENDICULAR TO DIRECTION OF TRAVEL).
- 7.) KERB RAMPS MUST BE ABSOLUTE MAXIMUM 1:8 LONGITUDINAL GRADE (1:10 DESIRABLE MAXIMUM).
- 8.) KERB RAMPS MUST BE MINIMUM 2000 mm WIDE OR WIDTH OF PATH, WHICHEVER IS GREATER.
- 9.) TGSIs SHALL BE CONTRASTING TO THE SURROUNDING SUBSTRATE TO COMPLY WITH THE REQUIREMENTS OF AS 1428. REFER TO TABLE 1 FOR INDICATIVE COLOURS OF INTEGRATED TGSIs.
- 10.) INTEGRATED TGSIs CAN BE 300 x 300 mm, 330 x 330 mm OR 400 x 400 mm IN SIZE (330 x 330 mm SHOWN).
- 11.) INTEGRATED PAVER STYLE TACTILES ARE THE PREFERRED TYPE OF TGSIs.

NOTES cont.

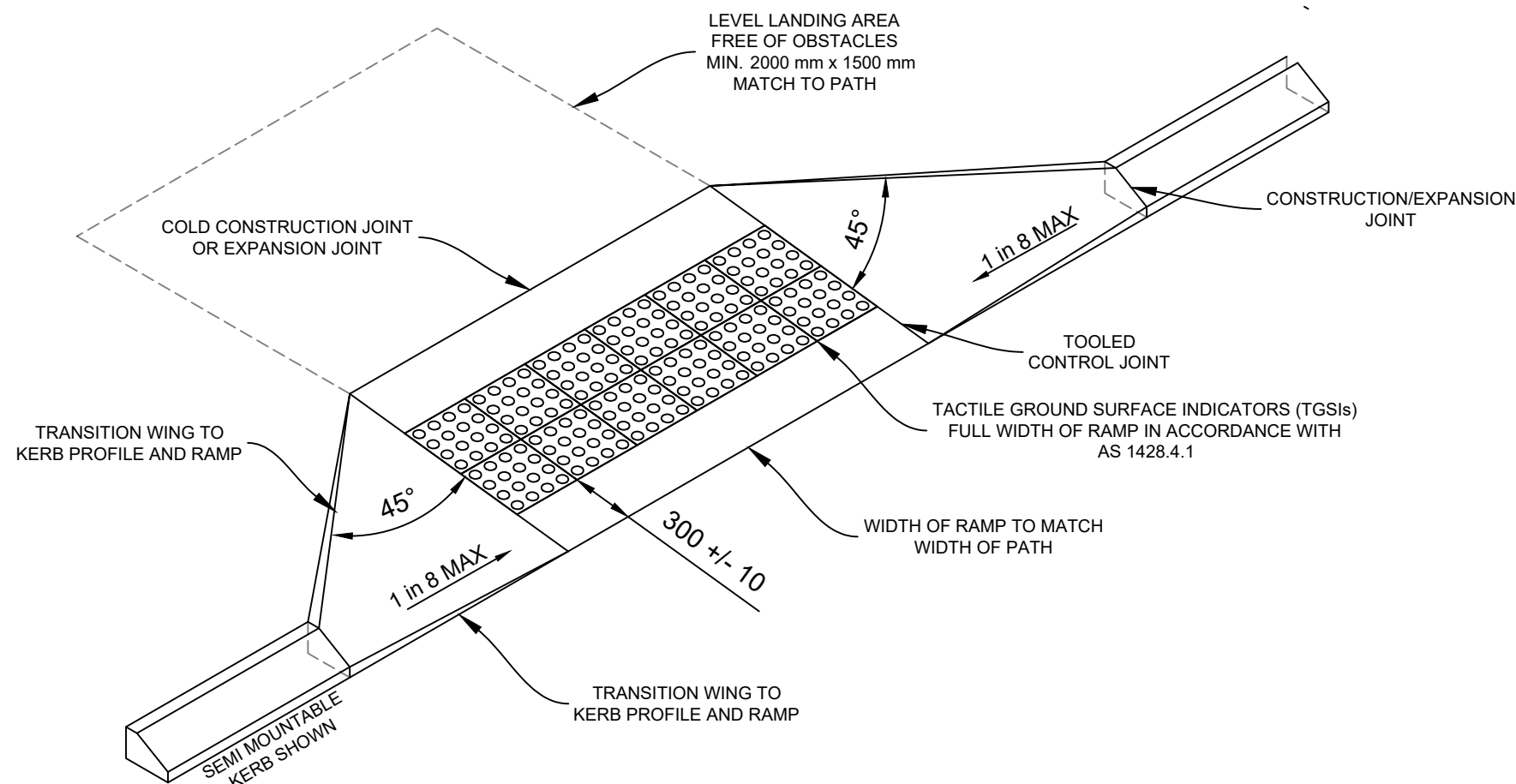
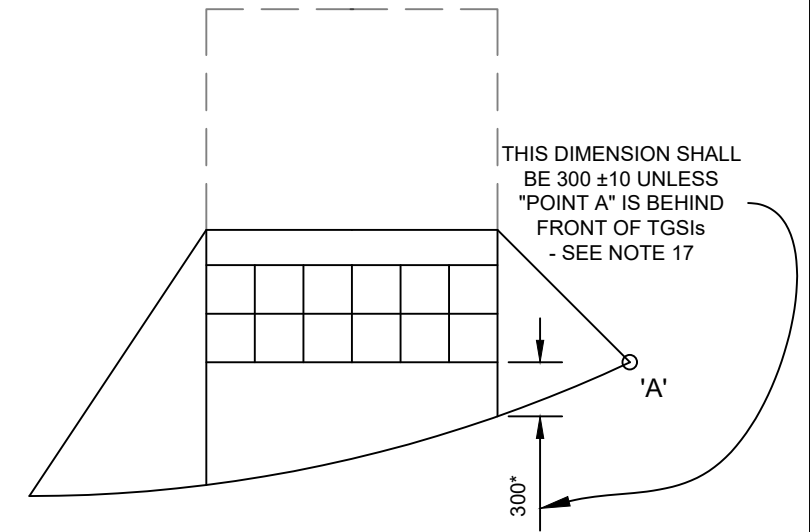
- 12.) THE USE OF INDIVIDUAL 'DISCRETE' TGSIS MUST BE ASSESSED AND APPROVED BY THE SHIRE PRIOR TO INSTALLATION. SPECIFIC LUMINANCE REQUIREMENTS APPLY UNDER AS 1428.
- 13.) THE PREFERRED METHOD OF INSTALLATION OF PAVEMENT STYLE TGSIS IS CASTING IN-SITU WITH THE CONCRETE KERB RAMP. THE USE OF BLOCK OUT FORM-WORK DOES NOT YIELD THE SAME RESULT AND IS DISCOURAGED.
- 14.) TOP AND BOTTOM OF RAMP MUST HAVE SHARP TRANSITION AT CHANGE OF GRADE (NO ROUNDING).
- 15.) 'CONTROL JOINTS' SHALL BE INSTALLED AT LOCATIONS SHOWN WITH A SUITABLE JOINTING TOOL OR SAW CUT TO A MIN DEPTH OF ¼ THICKNESS OF CONCRETE.
- 16.) COLD CONSTRUCTION JOINTS OR 'EXPANSION JOINTS' MUST BE FILLED FULL DEPTH OF KERB RAMP WITH A 10mm FIBRE BOARD OR COMPRESSIBLE FILLER AND SEALED WITH A BEAD OF SOUDAL MULTIBOND SMX50 HYBRID POLYMER TRAFFICABLE JOINT SEALANT OR APPROVED SIMILAR.
- 17.) THE EDGE OF EACH KERB RAMP WING (REPRESENTED BY POINT 'A') SHALL NOT EXTEND BEHIND THE FRONT OF THE TGSIS.
- 18.) CONCRETE TO BE MINIMUM 25 MPa AND PLAIN CONCRETE GREY COLOUR (NO OXIDE COLOURING).

INDICATIVE COLOURS FOR INTEGRATED TGSIs				
SURROUNDING SUBSTRATE	GREY CONCRETE	DENSE GRADE ASPHALT	RED ASPHALT	OTHER
TGSI COLOUR	CHARCOAL (BLACK)	IVORY (CREAM)	IVORY (CREAM)	MUST BE APPROVED

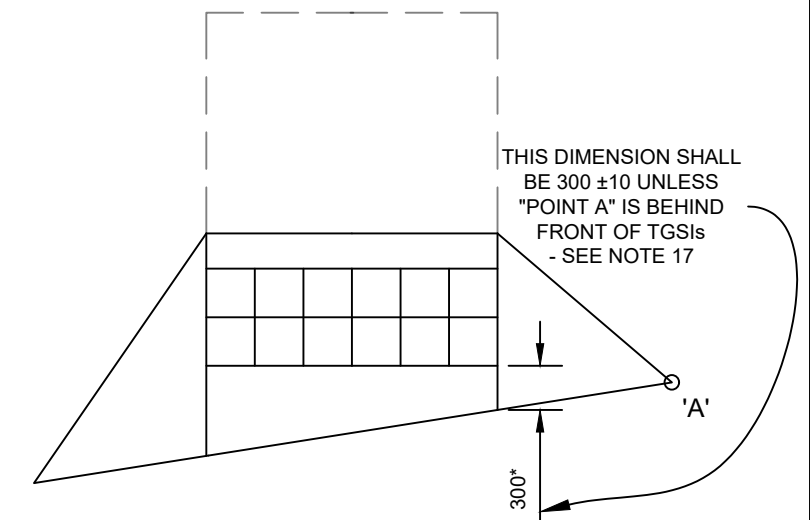
TABLE 1 - INDICATIVE CONTRASTING TGSI COLOURS
PLEASE NOTE THAT THESE COLOURS ARE INDICATIVE ONLY AND ARE
SUBJECT TO DESIGN AND APPROVAL



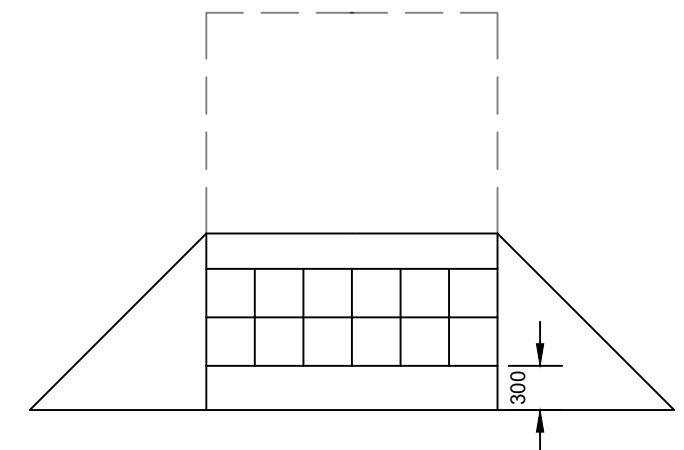
TGSI ALIGNMENT ACROSS ROAD



TYPE 'A' KERB RAMP - CURVED KERB LINE

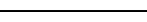
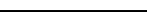


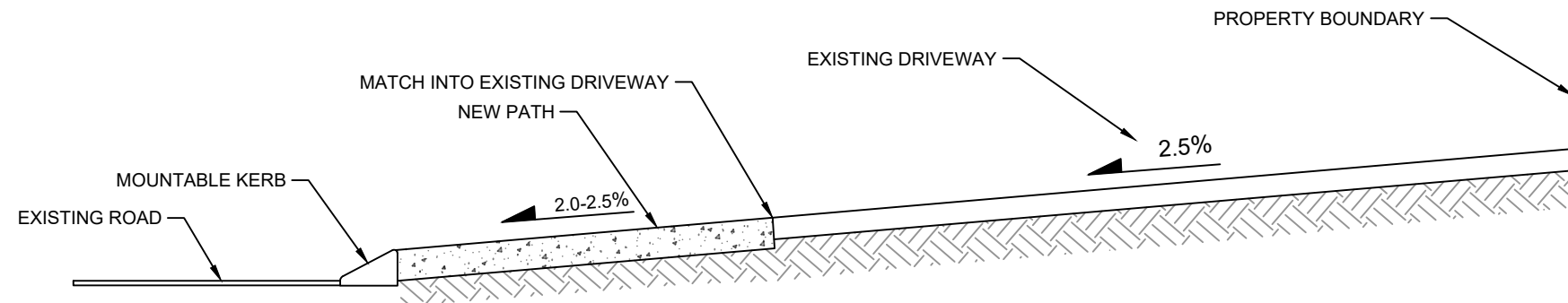
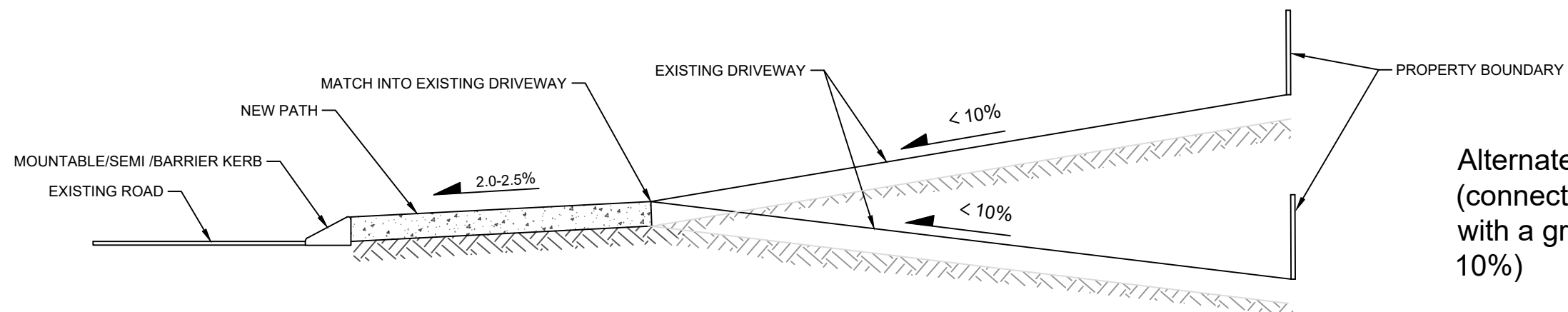
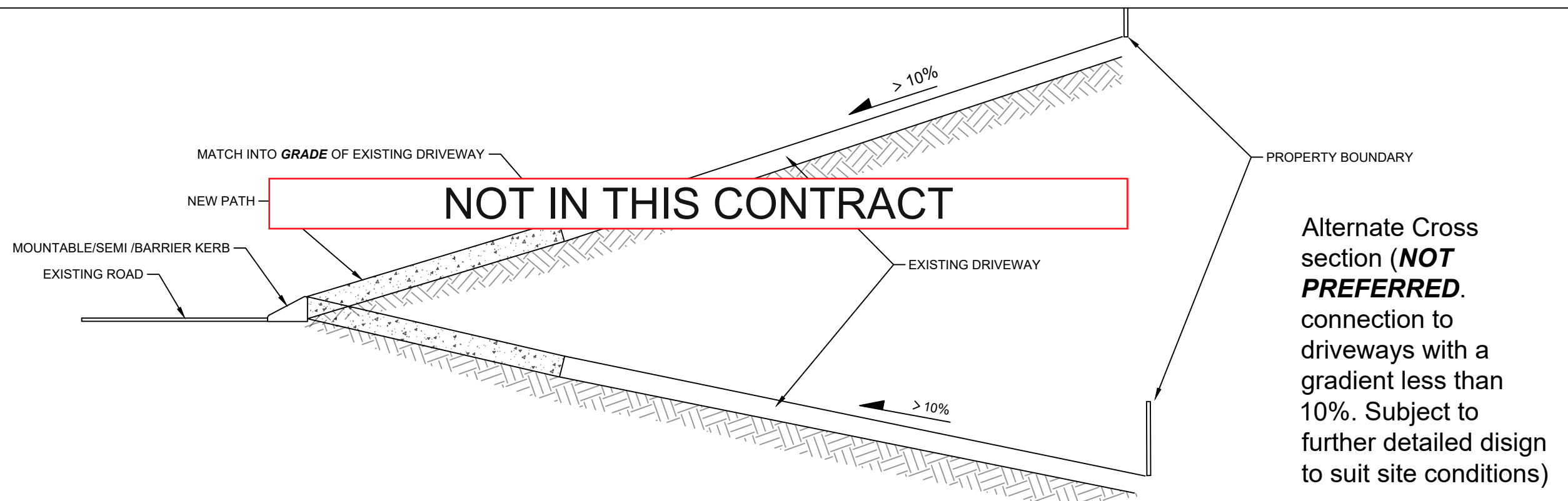
TYPE 'A' KERB RAMP - SKEWED KERB LINE



TYPE 'A' KERB RAMP - PERPENDICULAR KERB LINE

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.

REV.	DATE	COMMENT	APPROVED :  Chris Yates				 SHIRE of AUGUSTA MARGARET RIVER	PROJECT TITLE				DUGGAN DRIVE PATH CONSTRUCTION				FOR CONSTRUCTION										
A	JUNE 2024	FOR INTERNAL COMMENT AND INFORMATION	DRAWN	CY	DESIGNED	CY		 SHIRE of AUGUSTA MARGARET RIVER	SHEET TITLE				KERB RAMP TYPE 'A'				DWG No. RAMP-101 TYPE A									
0	30/07/24	ISSUED FOR CONSTRUCTION	SURVEY	EB	CHECKED	CY											JOB No. PXN048				SCALE	NTS	DATE	30/07/24	REV No.	0
			Horizontal: Approx MGA. Zone 50. Vertical: A.H.D.														Orig. Size A3									



REV.	DATE	COMMENT	APPROVED :  Chris Yates <small>(MUST BE SIGNED FOR CONSTRUCTION ISSUE)</small>					PROJECT TITLE DUGGAN DRIVE PATH CONSTRUCTION	FOR CONSTRUCTION				
A	June 2024	ISSUED FOR COMMENT AND REVIEW	DRAWN	EB	DESIGNED	EB			DWG No. FOOTPATH TO DRIVEWAY CONNECTION - 203				
0	30/07/24	ISSUED FOR CONSTRUCTION	SURVEY	EB	CHECKED	CY							
			Horizontal: Approx MGA. Zone 50.		Orig. Size A3								
			Vertical: A.H.D.					SHEET TITLE FOOTPATH TO DRIVEWAY CONNECTION	JOB No.	SCALE	DATE	REV No.	
									PXN048	NA	30/07/24	0	