

# PROPOSED ROADWORKS

## No. 27 - 29 NORTH AVALON ROAD, AVALON BEACH

### CIVIL ENGINEERING PLANS



#### GENERAL NOTES

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE DRAWINGS.
- ALL DIMENSIONS ON DETAILS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL PLANS AND LEVELS ARE EXPRESSED IN METRES.
- DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURAL STABILITY OF THE WORKS AND ENSURE NO PARTS BE OVER STRESSED UNDER CONSTRUCTION ACTIVITIES.
- WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER BUT IS NOT AN AUTHORISATION FOR A VARIATION. ANY VARIATIONS INVOLVED MUST BE TAKEN UP WITH THE ARCHITECT OR PROJECT MANAGER BEFORE THE WORK COMMENCES.
- ANY DISCREPANCIES OR OMISSIONS SHALL BE REFERRED TO THE ENGINEER FOR A DECISION BEFORE PROCEEDING WITH THE WORK.
- THE BUILDER SHALL GIVE 48 HOURS NOTICE FOR ALL ENGINEERING INSPECTIONS.
- BUILDING FROM THESE DRAWINGS IS NOT TO COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- THE WORD 'ENGINEER' USED IN THESE NOTES REFER TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF ACOR CONSULTANTS PTY LTD.

#### ROADWORKS NOTES

- ALL BASE COURSE AND SUB-BASE COURSE MATERIALS SHALL CONFORM WITH AUSTRALIAN STANDARDS.
- ALL BASE COURSE AND SUB-BASE MATERIALS SHALL BE COMPACTED TO ACHIEVE A MINIMUM OF 100% STANDARD MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT OF +0.2% IN ACCORDANCE WITH AS1289 E1.1.
- ALL WEARING SURFACES SHALL BE ASPHALTIC CONCRETE LAID TO THE THICKNESS SPECIFIED AND IN ACCORDANCE WITH THE SPECIFICATION.
- CONCRETE FOR KERBS SHALL HAVE A CONCRETE STRENGTH OF 20MPa AT 28 DAYS, MINIMUM SLUMP OF 80mm AND MAXIMUM AGGREGATE SIZE OF 40mm.

#### EXISTING SERVICES AND FEATURES

- THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION, REMOVAL AND DISPOSAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY WORKS WITHIN THE CONTRACT AREA, AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- THE CONTRACTOR IS TO CONDUCT A THOROUGH UNDERGROUND SERVICES INVESTIGATION TO LOCATE ALL SERVICES WITHIN THE AREA OF WORKS PRIOR TO ANY DEMOLITION WORKS COMMENCING.
- THE CONTRACTOR SHALL ENSURE THAT AT ALL TIMES SERVICES TO ALL BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED.
- PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL GAIN WRITTEN APPROVAL OF HIS PROGRAMME FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
- EXISTING BUILDINGS, EXTERNAL STRUCTURES, AND TREES SHOWN ON THESE DRAWINGS ARE FEATURES EXISTING PRIOR TO ANY DEMOLITION WORKS.
- CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
- INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE TO THE PRINCIPAL. CONTRACTOR TO GAIN APPROVAL OF SUPERINTENDENT FOR TIME OF INTERRUPTION.

#### SITWORKS NOTES

- ORIGIN OF LEVELS - AUSTRALIAN HEIGHT DATUM (A.H.D.)
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, THE SPECIFICATIONS AND THE DIRECTIONS OF THE PRINCIPAL'S REPRESENTATIVE.
- EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA AND AS SUCH THEIR ACCURACY CANNOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE PRINCIPAL'S REPRESENTATIVE. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- WHERE NEW WORKS ADJUT EXISTING THE CONTRACTOR SHALL ENSURE THAT A SMOOTH EVEN PROFILE, FREE FROM ABRUPT CHANGES IS OBTAINED.
- THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR.
- CARE IS TO BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATIONS ARE TO BE UNDERTAKEN OVER COMMUNICATIONS OR ELECTRICAL SERVICES. HAND EXCAVATE IN THESE AREAS.
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH AN APPROVED NON-NATURAL GRANULAR MATERIAL AND COMPACTED TO 88% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.1.1.
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
- ON COMPLETION OF PIPE INSTALLATION ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS.
- PROVIDE 12mm WIDE EXPANDING CORK JOINTS BETWEEN CONCRETE PAVEMENTS AND ALL BUILDINGS, WALLS, FOOTINGS, COLUMNS, KERBS, DRAIN DRAINS, GRATED DRAINS, BOLLARD FOOTINGS ETC.
- CONTRACTOR TO OBTAIN ALL AUTHORITY APPROVALS.
- ALL BATTERS TO BE GRASSED LINED WITH MINIMUM 100 TOPSOIL AND APPROVED COUCH LAID AS TURF.
- MAKE SMOOTH TRANSITION TO EXISTING SERVICES AND MAKE GOOD.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY DIVERSION DRAINS AND MOUNDS TO ENSURE THAT AT ALL TIMES EXPOSED SURFACES ARE FREE DRAINING AND WHERE NECESSARY EXCAVATE PUMPS AND PROVIDE PUMPING EQUIPMENT TO DRAIN EXPOSED AREAS.
- THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED ARCHITECTURAL, STRUCTURAL, HYDRAULIC AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
- TRENCHES THROUGH EXISTING ROAD AND CONCRETE PAVEMENTS SHALL BE SAWCUT TO FULL DEPTH OF CONCRETE AND A MIN 50mm IN BITUMINOUS PAVING.
- ALL BRANCH GAS AND WATER SERVICES UNDER DRIVEWAYS AND BRICK PAVING SHALL BE LOCATED IN 800 UPVC SEWER GRADE CONDUITS EXTENDING A MIN OF 500mm PAST PAVING.
- ON COMPLETION OF WORKS ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL INCLUDING, BUT NOT LIMITED TO, KERBS, FOOTPATHS, CONCRETE AREAS, GRASS AND LANDSCAPED AREAS.

#### COMPACTION NOTES

- ALL SOFT, WET OR UNSUITABLE MATERIAL TO BE REMOVED AS DIRECTED BY THE SUPERINTENDENT AND REPLACED WITH APPROVED MATERIAL SATISFYING THE REQUIREMENTS LISTED BELOW.
- ALL FILL MATERIAL SHALL BE FROM A SOURCE APPROVED BY THE SUPERINTENDENT AND SHALL COMPLY WITH THE FOLLOWING:
  - FREE FROM ORGANIC, PERISHABLE AND CONTAMINATED MATTER
  - MAXIMUM PARTICLE SIZE 75MM
  - PLASTICITY INDEX BETWEEN 2% AND 15%
- THE CONTRACTOR SHALL PROGRAM THE EARTHWORKS OPERATION SO THAT THE WORKING AREAS ARE ADEQUATELY DRAINED DURING THE PERIOD OF CONSTRUCTION. THE SURFACE SHALL BE GRADED AND SEALED OFF TO REMOVE DEPRESSIONS AND SIMILAR WHICH WOULD ALLOW WATER TO POND AND PENETRATE THE UNDERLYING MATERIAL. ANY DAMAGE RESULTING FROM THE CONTRACTOR NOT OBSERVING THESE REQUIREMENTS SHALL BE RECTIFIED BY THE CONTRACTOR AT THEIR COST.
- TESTING OF THE SUBGRADE SHALL BE CARRIED OUT BY AN APPROVED NATA REGISTERED LABORATORY AT THE CONTRACTORS EXPENSE.

#### STORMWATER NOTES

- ALL 225 DIA. DRAINAGE PIPES AND LARGER SHALL BE CLASS '2' APPROVED SPIGOT AND SOCKET FRG OR RCP PIPES WITH RUBBER RING JOINTS. (U.N.O.) ALL DOWNPIPE DRAINAGE LINES SHALL BE SEWER GRADE UPVC WITH SOLVENT WELD JOINTS. (U.N.O.)
- EQUIVALENT STRENGTH REINFORCED CONCRETE PIPES MAY BE USED.
- ALL PIPE JUNCTIONS UP TO AND INCLUDING 450 DIA. AND TAPERS SHALL BE VIA PURPOSE MADE FITTINGS.
- MINIMUM GRADE TO STORMWATER LINES TO BE 1% (U.N.O.)
- CONTRACTOR TO SUPPLY AND INSTALL ALL FITTINGS AND SPECIALS INCLUDING VARIOUS PIPE ADAPTORS TO ENSURE PROPER CONNECTION BETWEEN DISSIMILAR PIPEWORK.
- ALL CONNECTIONS TO EXISTING DRAINAGE PITS SHALL BE MADE IN A TRADESMAN-LIKE MANNER AND THE INTERNAL WALL OF THE PIT AT THE POINT OF ENTRY SHALL BE CEMENT RENDERED TO ENSURE A SMOOTH FINISH.
- PRECAST PITS SHALL NOT BE USED UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE SUPERINTENDENT.
- WHERE TRENCHES ARE IN ROCK, THE PIPE SHALL BE BEDDED ON A MIN. 50MM CONCRETE BED (OR 75MM THICK BED OF 12MM BLUE METAL) UNDER THE BARREL OF THE PIPE. THE PIPE COLLAR AT NO POINT SHALL BEAR ON THE ROCK. IN OTHER THAN ROCK, PIPES SHALL BE LAID ON A 75MM THICK SAND BED. IN ALL CASES BACKFILL THE TRENCH WITH SAND TO 200MM ABOVE THE PIPE. WHERE THE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH WITH SAND OR APPROVED GRANULAR BACKFILL COMPACTED IN 150MM LAYERS TO 88% STANDARD MAX. DRY DENSITY.
- BEDDING SHALL BE (U.N.O.) TYPE H1, IN ACCORDANCE WITH CURRENT RELEVANT AUSTRALIAN STANDARDS.
- WHERE STORMWATER LINES PASS UNDER FLOOR SLABS SEWER GRADE RUBBER RING JOINTS ARE TO BE USED.
- WHERE SUBSOIL DRAINAGE LINES PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED UPVC SEWER GRADE PIPE SHALL BE USED.
- PROVIDE 3.0M LENGTH OF 100 DIA. SUBSOIL DRAINAGE PIPE WRAPPED IN FABRIC SOCK, AT UPSTREAM END OF EACH PIT.

#### CONCRETE PAVEMENT NOTES

- CONCRETE MIX PARAMETERS:
  - MAXIMUM AGGREGATE SIZE 20mm
  - FLEXURAL STRENGTH AT 28 DAYS = 3.5MPa
  - FLEXURAL STRENGTH AT 90 DAYS = 3.85 MPa
  - MAXIMUM WATER / CEMENT RATIO = 0.56
  - MAXIMUM SHRINKAGE LIMIT = 650 MICRON STRAINS (AS 1012 Pt 13)
  - MINIMUM CEMENT CONTENT = 300kg/m3
  - CEMENT TO BE TYPE 'A' (NOMINAL CEMENT) TO AS 1315
  - SLUMP = 50mm
- JOINT TO BE SAWS AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY THAT IT WILL NOT BE DAMAGED BY SAWING. IF AN UNPLANNED CRACK OCCURS THE CONTRACTOR SHALL REPLACE WHOLE SLABS EITHER SIDE OF THE UNPLANNED CRACK, UNLESS DIRECTED OTHERWISE.
- CONSTRUCT JOINTS AS DETAILED
- CONSTRUCTION JOINTS WHERE REQUIRED BUT NOT SHOWN, SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER AND CONSTRUCTED AT THE CONTRACTORS EXPENSE.
- ALL LONGITUDINAL CONSTRUCTION JOINTS SHALL BE FORMED AND INCLUDE DOWEL BARS AS SPECIFIED. ALL TRANSVERSE CONSTRUCTION JOINTS SHALL BE FORMED AND INCLUDE DOWEL BARS AS SPECIFIED.
- BOND BREAKER TO BE TWO (2) UNIFORM COATS OF BITUMEN EMULSION ALL OVER THE EXPOSED SURFACE AND ON END.
- DOWELS AND THE BARS TO MEET STRENGTH REQUIREMENTS OF STRUCTURAL GRADE STEEL IN ACCORDANCE AS 1302. DOWELS AND THE BARS SHALL BE:
  - STRAIGHT
  - TO LENGTH SPECIFIED
  - CLEAN AND FREE FROM MILL SCALE, RUST AND OIL
  - SAWN TO LENGTH NOT CROPPED.
- DIMENSIONS OF SEALANT RESERVOIR DEPENDANT ON THE SEALANT TYPE ADOPTED. ENGINEERS APPROVAL TO BE OBTAINED FOR SEALANT AND RESERVOIR DIMENSIONS AND DETAIL PROPOSED BY THE CONTRACTOR. REFER DETAIL 'B' FOR TYPICAL ARRANGEMENT AND SEALANT.
- PRIOR TO THE PLACEMENT OF CONCRETE IN THE ADJACENT SLAB, SELF EXPANDING CORK FILLER SHALL BE ADHERED TO THE ALREADY CAST AND CLEANED CONCRETE FACE USING AN APPROVED WATERPROOF ADHESIVE. ADHESIVE SHALL BE LIBERALLY APPLIED TO THE FULL FACE OF THE CONCRETE SLAB TO BE COVERED BY THE FILLER, AND ON THE FULL FACE OF THE FILLER TO BE ADHERED.
- REFER TO COMPACTION NOTES FOR PREPARATION OF SUB-BASE AND SUB-GRADE.
- ALL WORK TO BE BROOM FINISH.

#### ASPHALTIC CONCRETE NOTES

- GENERAL
  - MINERAL AGGREGATES TO COMPLY WITH AUSTRALIAN STANDARDS
  - MINERAL FILLER TO COMPLY WITH AS 2357 MINERAL FILLERS OR ASPHALT.
  - BITUMEN BINDER SHALL COMPLY WITH AS 2008
- MIX PROPORTIONS
  - JOB MIX - 10mm NOMINAL SIZE AGGREGATE, MINIMUM BITUMEN CONTENT BY MASS OF TOTAL MASS 5.1%
  - MIX STABILITY - BETWEEN 10kN AND 30kN AS DETERMINED BY AS 2881
  - AIR VOIDS IN COMPACTED MIX - BETWEEN 4% AND 7% OF THE VOLUME OF THE MIX.
  - VOIDS FILLED IN BINDER - 65-80% OF AIR VOIDS IN THE TOTAL MINERAL AGGREGATE FILLED BY BINDER IN ACCORDANCE WITH AUSTRALIAN STANDARDS
- PAVEMENT PREPARATION
  - THE EXISTING SURFACE TO BE SEALED SHALL BE DRY AND BROOMED BEFORE COMMENCEMENT OF WORK TO ENSURE COMPLETE REMOVAL OF ALL SUPERFICIAL FOREIGN MATTER.
  - ALL DEPRESSIONS OR UNEVEN AREAS ARE TO BE TACK-COATED AND BROUGHT UP TO GENERAL LEVEL OF PAVEMENT WITH ASPHALTIC CONCRETE BEFORE LAYING OF MAIN COURSE.
- TACK COAT
  - THE WHOLE OF THE AREA TO BE SHEETED WITH ASPHALTIC CONCRETE SHALL BE LIGHTLY AND EVENLY COATED WITH RAPID SETTING BITUMEN COMPLYING WITH AUSTRALIAN STANDARDS. APPLICATION RATE FOR RESIDUAL BITUMEN SHALL BE 0.15 TO 0.30 LITRE/SQUARE METRE. APPLICATION SHALL BE BY MEANS OF A MECHANICAL SPRAYER WITH SPRAY BAR.
- SPREADING
  - ALL ASPHALTIC CONCRETE SHALL BE SPREAD WITH A SELF PROPELLED PAVING MACHINE.
  - THE ASPHALTIC CONCRETE SHALL BE LAID AT A MIX TEMPERATURE AS SHOWN BELOW.

ROAD SURFACE TEMPERATURE IN SHADE (°C)	MIX TEMPERATURES (°C)
5 - 10	NOT PERMITTED
10 - 15	150
15 - 25	145
OVER 25	140
- JOINTS
  - THE NUMBER OF JOINTS BOTH LONGITUDINAL AND TRANSVERSE SHALL BE KEPT TO A MINIMUM.
  - THE DENSITY AND SURFACE FINISH AT JOINTS SHALL BE SIMILAR TO THOSE OF THE REMAINDER OF THE LAYER.
- COMPACTION
  - ALL COMPACTION SHALL BE UNDERTAKEN USING SELF PROPELLED ROLLERS.
  - INITIAL ROLLING SHALL BE COMPLETE BEFORE THE MIX TEMPERATURE FALLS BELOW 105°C
  - SECONDARY ROLLING SHALL BE COMPLETED BEFORE THE MIX TEMPERATURE FALLS BELOW 60°C
  - MINIMUM CHARACTERISTICS VALUE OF RELATIVE COMPACTION OF A LOT WHEN TESTED IN ACCORDANCE WITH AS2150
- FINISHED PAVEMENT PROPERTIES
  - FINISHED SURFACES SHALL BE SMOOTH, DENSE AND TRUE TO SHAPE AND SHALL NOT VARY MORE THAN 10mm FROM THE SPECIFIED PLAN LEVEL AT ANY POINT AND SHALL NOT DEVIATE FROM THE BOTTOM OF A 3m STRAIGHT EDGE LAID IN ANY DIRECTION BY MORE THAN 5mm.

#### DIAL BEFORE YOU DIG



IMPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF 'DIAL BEFORE YOU DIG' DRAWINGS ON SITE AT ALL TIMES.

#### DRAWING LIST

DWG No.	DESCRIPTION
P1	COVER SHEET AND NOTES
P2	SITE PLAN
P3	NOT USED
P4	NOT USED
P5	NOT USED
P6	PATH DETAIL PLAN SHEET No.4
P7	PATH DETAIL PLAN SHEET No.5
P8	PATH DETAIL PLAN SHEET No.6
P9	PATH DETAIL PLAN SHEET No.7
P10	PATH DETAIL PLAN SHEET No.8
P11	PATH DETAIL PLAN SHEET No.9
P12	NOT USED
P13	LONG SECTION SHEET No.1
P14	LONG SECTION SHEET No.2
P15	NOT USED
P16	NOT USED
P17	NOT USED
P18	DETAILS SHEET No.1
P19	NOT USED
P20	DETAILS SHEET No.3
P21	NOT USED
P22	DETAILS SHEET No.5

#### LOCALITY PLAN

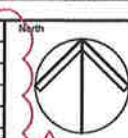


ISSUED FOR DEVELOPMENT APPLICATION  
NOT FOR CONSTRUCTION

DRAWINGS MUST BE PRINTED IN COLOUR

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Issue	Description	Date	Drawn	Approved
D1	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	NOT ISSUED	-	-	-
G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK



Client  
**ARMADA AVALON PTY LTD**

Architect  
**ENVIRONA STUDIO**



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Project  
**PROPOSED DEVELOPMENT**  
No. 27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

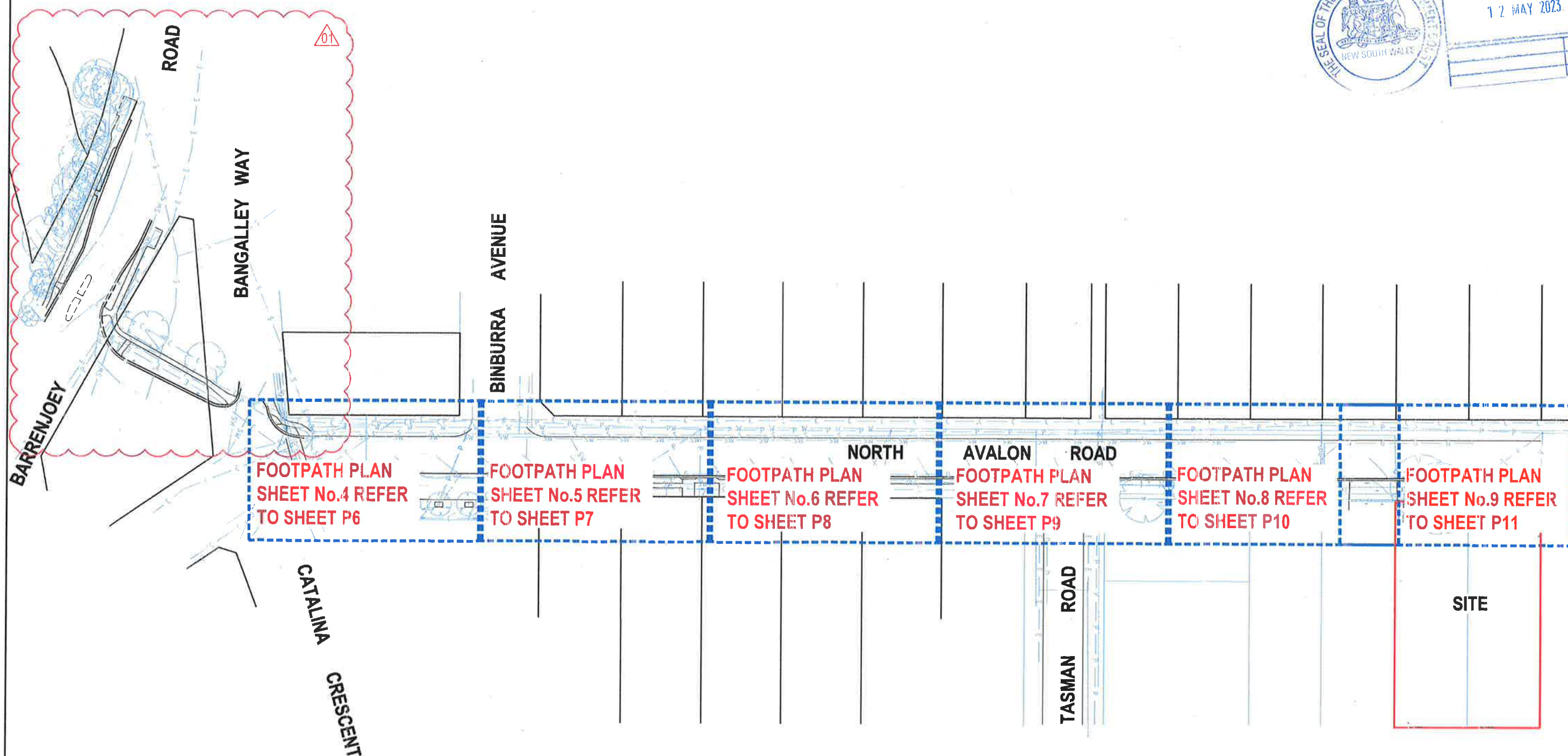
Drawing Title  
**COVER SHEET & NOTES**

Drawn	Date	Scale	A1	G.A. Check	Date
SJ	03.08.21	AS NOTED	-	-	-
Designed	Project No.	Dwg. No.	Issue		
BK	CC200310	P1	01		

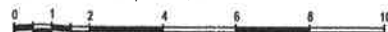




LAND AND ENVIRONMENT  
COURT OF NSW  
FILED ON  
12 MAY 2023



SITE PLAN  
SCALE - 1:500/A1, 1:1000/A3



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G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	05.07.21	SSD	BK

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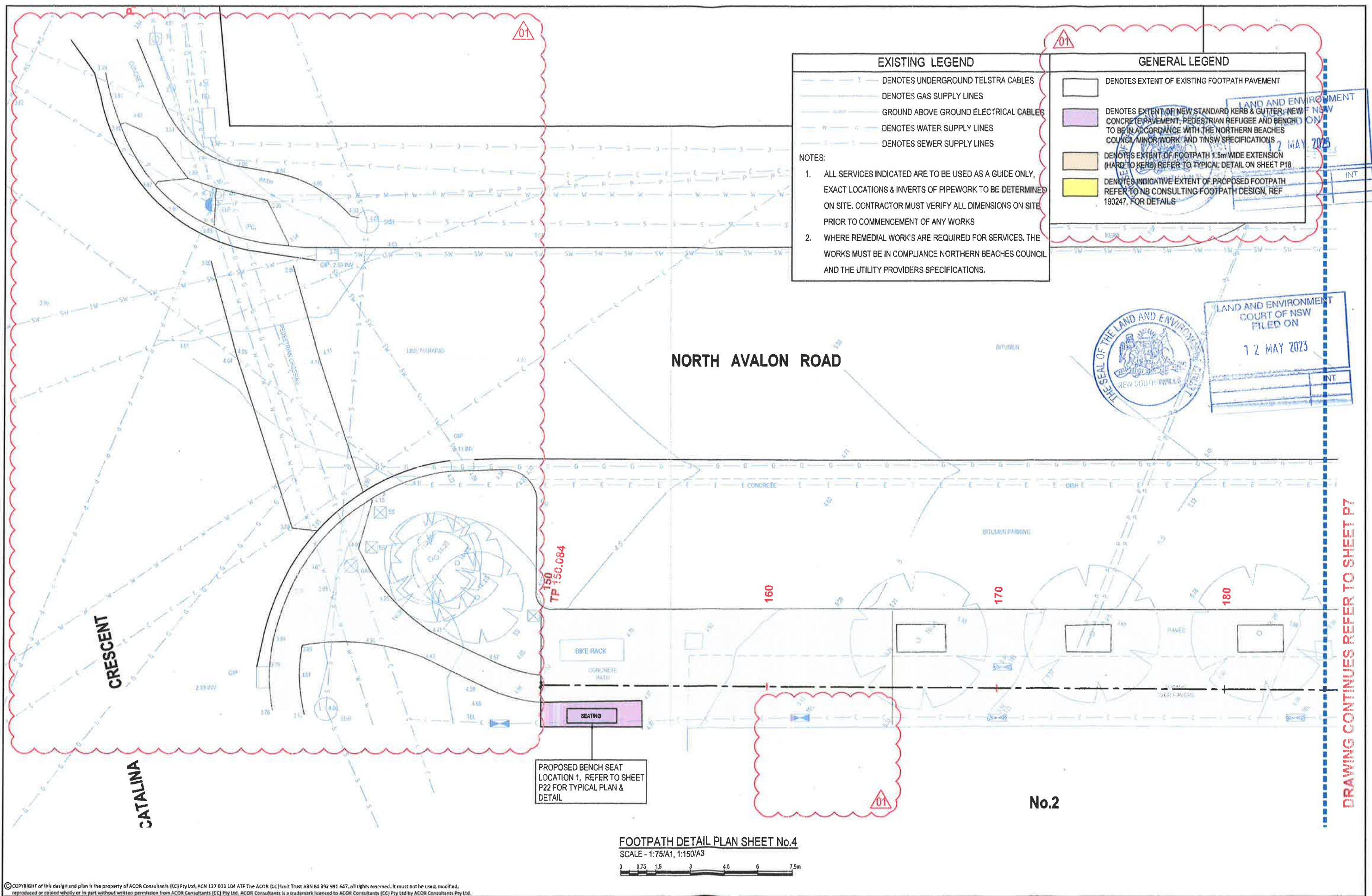
Project:  
PROPOSED DEVELOPMENT

No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title:  
SITE PLAN

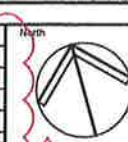
Drawn	Date	Scale	A1	C.A. Check	Date
SJ	03.08.21	AS NOTED	-	-	-
Designed	Project No.	Draw. No.	Issue		
BK	CC200310	P2	01		





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Project:  
**PROPOSED DEVELOPMENT**

No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title:  
**PATH DETAIL PLAN  
SHEET No.4**

Drawn	Date	Scale	A1	G.A. Check	Date
SJ	03.06.21	AS NOTED	-	-	-
Designed	Project No.	Draw. No.	Issue		
BK	CC200310	P8	01		

DRAWING CONTINUES REFER TO SHEET P7



BINBURRA AVENUE

DRAWING CONTINUES REFER TO SHEET P6

NORTH AVALON ROAD

No.5

No.7

FOOTPATH DETAIL PLAN SHEET No.5

SCALE - 1:75/A1, 1:150/A3



### EXISTING LEGEND

- T — DENOTES UNDERGROUND TELSTRA CABLES
- G — DENOTES GAS SUPPLY LINES
- E — GROUND ABOVE GROUND ELECTRICAL CABLES
- W — DENOTES WATER SUPPLY LINES
- S — DENOTES SEWER SUPPLY LINES

#### NOTES:

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- WHERE REMEDIAL WORK'S ARE REQUIRED FOR SERVICES, THE WORKS MUST BE IN COMPLIANCE NORTHERN BEACHES COUNCIL AND THE UTILITY PROVIDERS SPECIFICATIONS.

### GENERAL LEGEND

- DENOTES EXTENT OF EXISTING FOOTPATH PAVEMENT
- DENOTES EXTENT OF NEW STANDARD KERB & GUTTER, NEW CONCRETE PAVEMENT, PEDESTRIAN REFUGEE AND BENCH TO BE IN ACCORDANCE WITH THE NORTHERN BEACHES COUNCIL MINOR WORK AND TINSW SPECIFICATIONS
- DENOTES EXTENT OF FOOTPATH 1.5m WIDE EXTENSION (HARD TO KERB) REFER TO TYPICAL DETAIL ON SHEET P18
- DENOTES INDICATIVE EXTENT OF PROPOSED FOOTPATH REFER TO NB CONSULTING FOOTPATH DESIGN, REF 190247, FOR DETAILS



MAKE SMOOTH TRANSITION INTO EXISTING PAVEMENT

DRAWING CONTINUES REFER TO SHEET P8

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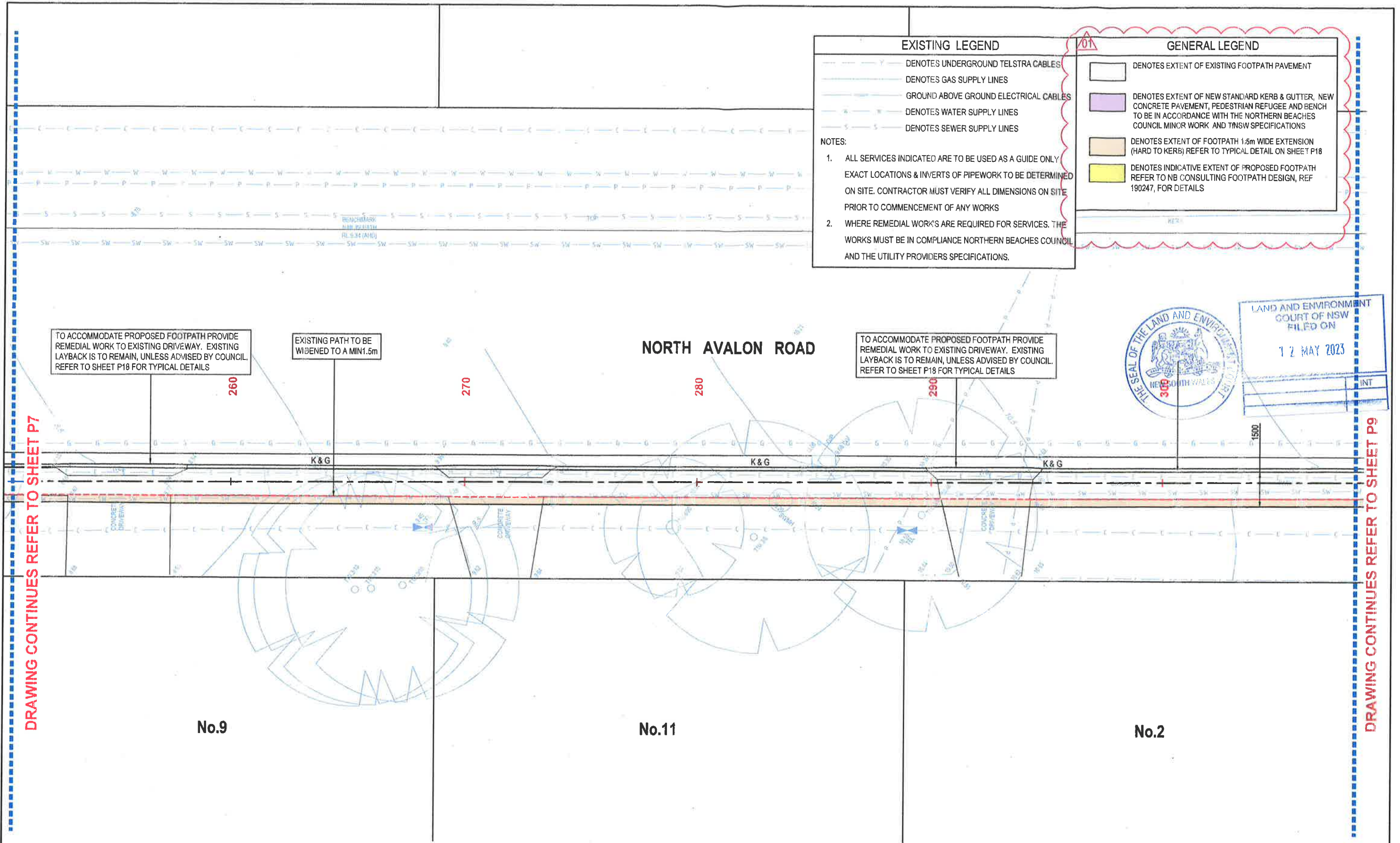
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Project  
**PROPOSED DEVELOPMENT**  
No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title PATH DETAIL PLAN SHEET No.5				
Drawn	Date	Scale	A1	D.A. Check
SJ	03.06.21	AS NOTED	-	-
Designed	Project No.	Dwg. No.	Issue	
BK	CC200310	P7	01	





**EXISTING LEGEND**

- DENOTES UNDERGROUND TELSTRA CABLES
- DENOTES GAS SUPPLY LINES
- GROUND ABOVE GROUND ELECTRICAL CABLES
- DENOTES WATER SUPPLY LINES
- DENOTES SEWER SUPPLY LINES

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**GENERAL LEGEND**

- [White Box] DENOTES EXTENT OF EXISTING FOOTPATH PAVEMENT
- [Purple Box] DENOTES EXTENT OF NEW STANDARD KERB & GUTTER, NEW CONCRETE PAVEMENT, PEDESTRIAN REFUGEE AND BENCH TO BE IN ACCORDANCE WITH THE NORTHERN BEACHES COUNCIL MINOR WORK AND TNSW SPECIFICATIONS
- [Orange Box] DENOTES EXTENT OF FOOTPATH 1.5m WIDE EXTENSION (HARD TO KERBS) REFER TO TYPICAL DETAIL ON SHEET P18
- [Yellow Box] DENOTES INDICATIVE EXTENT OF PROPOSED FOOTPATH REFER TO NB CONSULTING FOOTPATH DESIGN, REF 190247, FOR DETAILS

LAND AND ENVIRONMENT  
COURT OF NSW  
FILED ON  
12 MAY 2023

THE SEAL OF THE LAND AND ENVIRONMENT  
COURT OF NEW SOUTH WALES  
309

DRAWING CONTINUES REFER TO SHEET P7

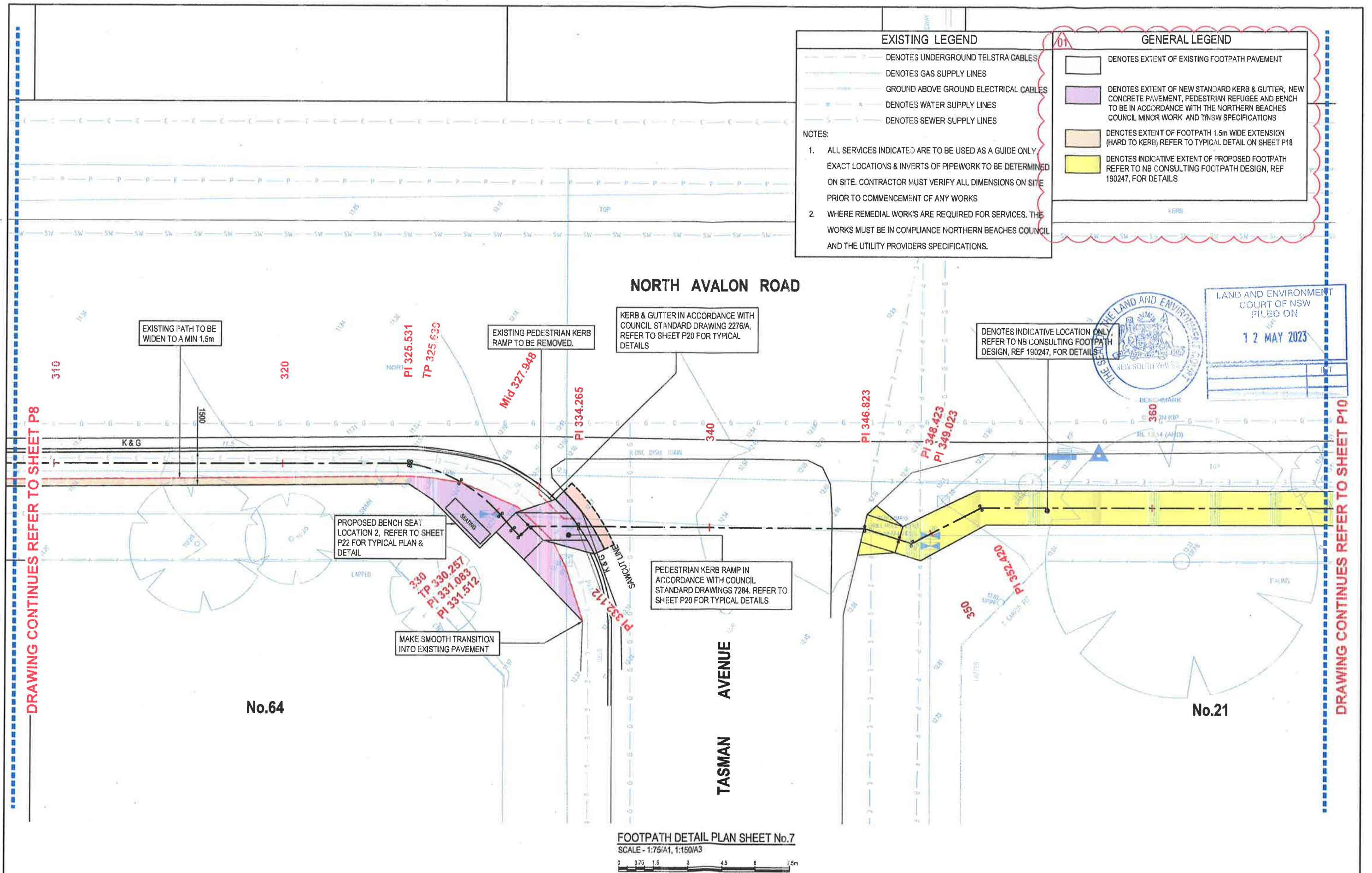
DRAWING CONTINUES REFER TO SHEET P9

**FOOTPATH DETAIL PLAN SHEET No.6**  
SCALE - 1:75/A1, 1:150/A3

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01 REVISED DRAWING SET - REVISED EXTENT OF WORKS					20.03.23	NB	BK		Client <b>ARMADA AVALON PTY LTD</b>	Architect <b>ENVIRONA STUDIO</b>	 <b>ACOR CONSULTANTS</b> ENGINEERS   MANAGERS   INFRASTRUCTURE PLANNERS   DEVELOPMENT CONSULTANTS	Project <b>ACOR Consultants (CC) Pty Ltd</b> Platinum Building, Suite 2.01, 4 Ilya Avenue ERINA NSW 2250, Australia T +61 2 4324 3499	Drawing Title <b>PROPOSED DEVELOPMENT</b>  No 27 - 29 NORTH AVALON ROAD AVALON BEACH	Drawing Title <b>PATH DETAIL PLAN SHEET No.6</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Issue	Description	Date	Drawn	Approved
01	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	NOT ISSUED	-	-	-
G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK

Client  
**ARMADA AVALON PTY LTD**

Architect  
**ENVIRONA STUDIO**

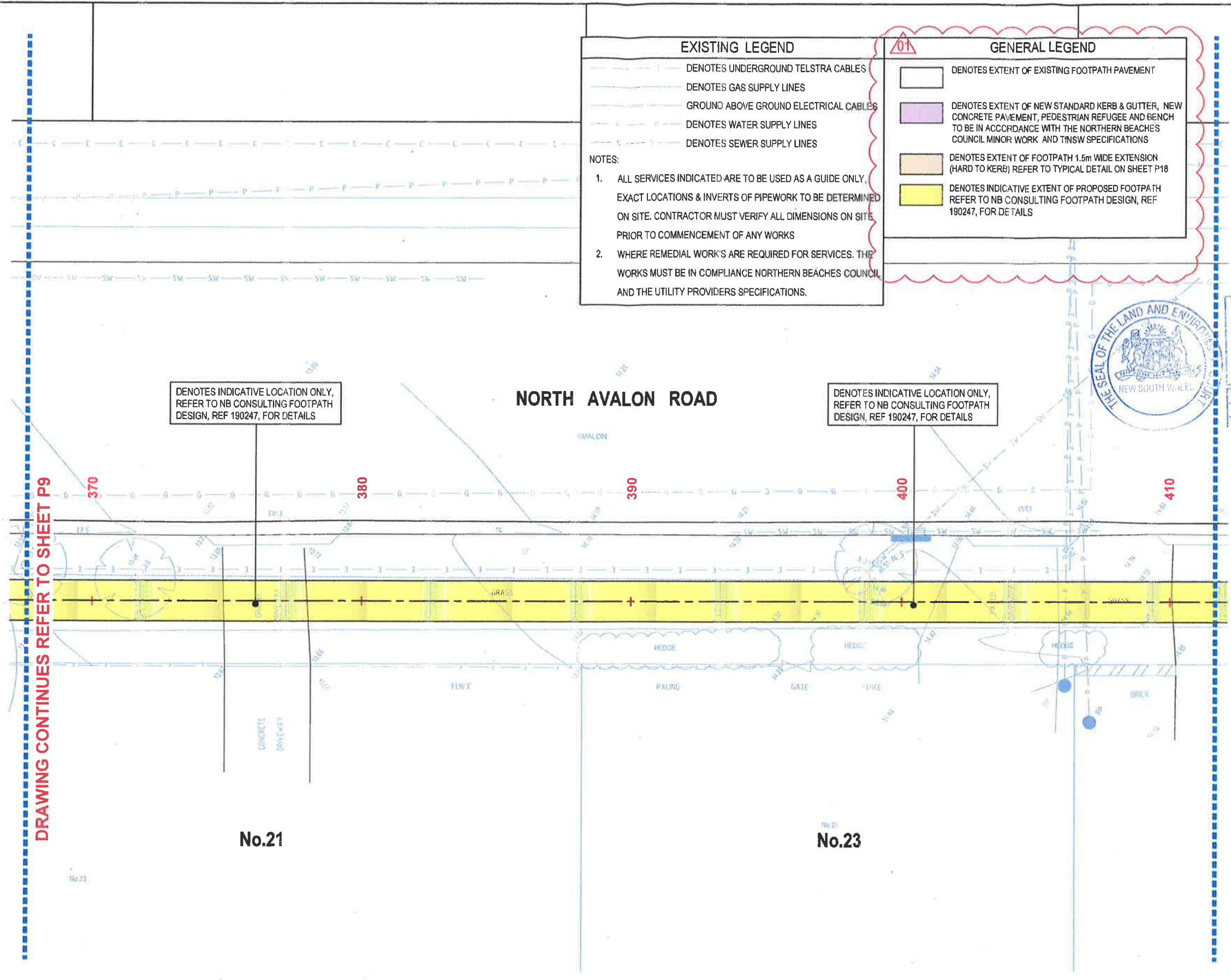


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ERINA NSW 2250, Australia  
T +61 2 4324 3499

Project  
**PROPOSED DEVELOPMENT**  
No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title		PATH DETAIL PLAN SHEET No.7	
Drawn	Date	Scale	A1
SJ	03.06.21	AS NOTED	-
Designed	Project No.	Draw. No.	Issue
BK	CC200310	P9	01





**EXISTING LEGEND**

- T — DENOTES UNDERGROUND TELSTRA CABLES
- G — DENOTES GAS SUPPLY LINES
- G — GROUND ABOVE GROUND ELECTRICAL CABLES
- W — DENOTES WATER SUPPLY LINES
- S — DENOTES SEWER SUPPLY LINES

**NOTES:**

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LAND AND ENVIRONMENT  
COURT OF NSW  
FILED ON  
12 MAY 2023

DRAWING CONTINUES REFER TO SHEET P9

DRAWING CONTINUES REFER TO SHEET P11

DENOTES INDICATIVE LOCATION ONLY,  
REFER TO NB CONSULTING FOOTPATH  
DESIGN, REF 190247, FOR DETAILS

DENOTES INDICATIVE LOCATION ONLY,  
REFER TO NB CONSULTING FOOTPATH  
DESIGN, REF 190247, FOR DETAILS

**NORTH AVALON ROAD**

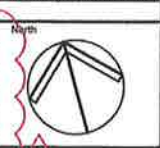
No.21

No.23

**FOOTPATH DETAIL PLAN SHEET No.8**  
SCALE - 1:75/A1, 1:150/A3

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Rev	Description	Date	Drawn	Approved
01	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	NOT ISSUED	-	-	-
G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK



Client  
**ARMADA AVALON PTY LTD**

Architect  
**ENVIRONA STUDIO**



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Platinum Building, Suite 2.01, 4 Ilya Avenue  
ERINA NSW 2250, Australia  
T +61 2 4324 3488

Project  
**PROPOSED DEVELOPMENT**  
No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title <b>PATH DETAIL PLAN SHEET No.8</b>				
Drawn	Date	Scale	A1	Q.A. Check
SJ	03.06.21	AS NOTED	-	-
Designed	Project No.	Orig. No.	Issue	
BK	CC200310	P10	01	









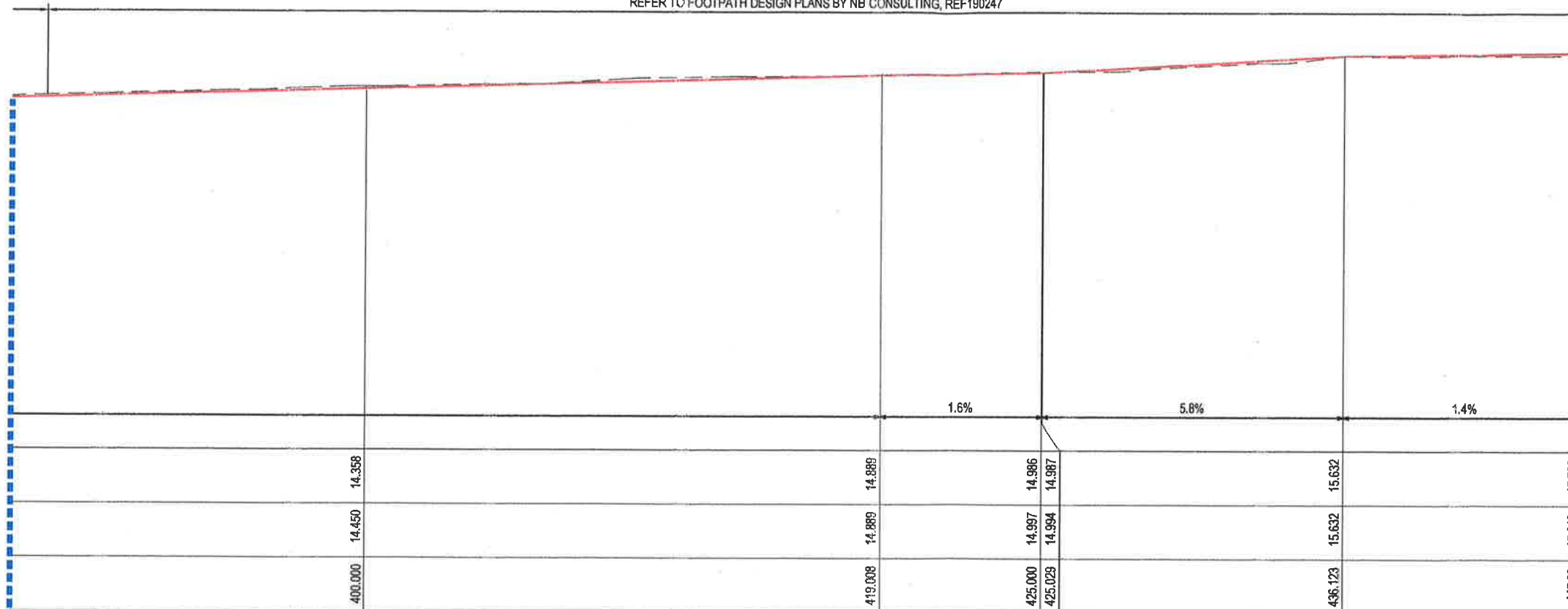




LAND AND ENVIRONMENT COURT OF NSW FILED ON	
12 MAY 2023	
	INT

REFER TO FOOTPATH DESIGN PLANS BY NB CONSULTING, REF190247

BREAK E-E, REFER TO SHEET P13



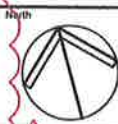
### FOOTPATH LONGITUDINAL SECTION - END

HORIZONTAL SCALE - 1:100/A1, 1:200/A3

VERTICAL SCALE - 1:100/A1, 1:200/A3

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Issue	Description	Date	Drawn	Approved
01	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	NOT ISSUED	-	-	-
G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	05.07.21	SSD	BK



Client  
ARMADA AVALON PTY LTD

Architect  
ENVIRONA STUDIO



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Project  
PROPOSED DEVELOPMENT

No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title  
LONG SECTIONS  
SHEET No.3

Drawn	Date	Scale	A1	Q.A. Check	Date
SJ	03.06.21	AS NOTED	-	-	-
Designed	Project No.	Draw. No.	Issue		
BK	CC200310	P14	01		





TTYPICAL FOOTPATH SECTION (HARD TO KERB)

NOTE: PROVIDE TOOLED OR SAWN JOINTS AT 2m MAX.  
CTS AND CONSTRUCTION JOINTS AT 12m MAX CTS.  
CONSTRUCTION JOINTS TO CONSIST OF 2- N12 DOWELS  
500mm LONG (GALV) + 10mm ABLEFLEX.  
LATERAL JOINTS TO MATCH EXISTING PAVEMENT WHERE  
POSSIBLE

CONCRETE STRENGTH = 32MPa

**DETAIL**  
SCALE: 1:5/A1, 1:10/A3

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D1	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	ISSUED FOR APPROVAL	19.07.21	SJ	BK
G	ISSUED FOR CLIENT REVIEW	16.07.21	SJ	BK
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK
Issue	Description	Date	Drawn	Approved

Client	Architect
ARMADA AVALON PTY LTD	ENVIRONA STUDIO



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Project **PROPOSED DEVELOPMENT**

No.27 - 28  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title  
**FOOTPATH DETAILS**  
**SHEET No.1**

Drawn SJ	Date 03.06.21	Scale AS NOTED	A1	Q.A. Check -	Dr
Designed BK	Project No. CC200310	Owg. No. P18			

0

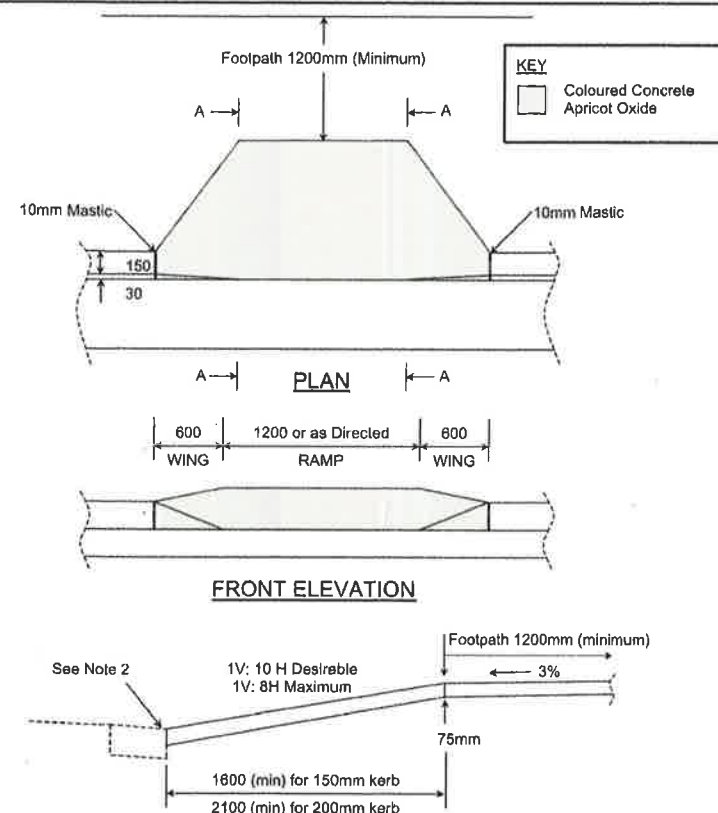




LAND AND ENVIRONMENT  
COURT OF NSW  
FILED ON

12 MAY 2023

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CROSS SECTION A-A

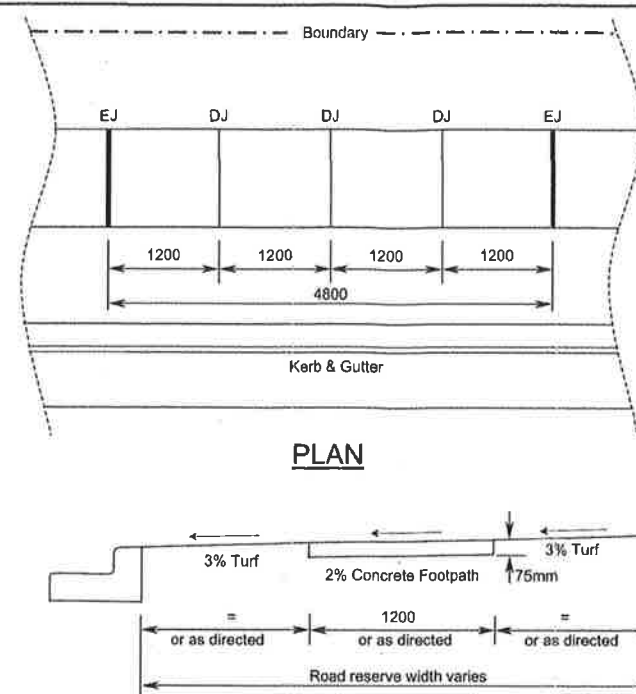
NOTES:

- Surface finish of the pedestrian kerb ramp shall be rough broom finished APRICOT COLOURED concrete, except if there is coloured paving adjacent, then the finish shall be rough broom finished plain concrete. All exposed edges shall be neatly rounded with a proper edging tool forming a 50mm margin. Concrete shall have a minimum compressive strength of 25MPa at 28 days.
- The contractor shall place a 75mm deep saw cut in the gutter invert and remove kerb, unless directed by Council or Accredited Certifier (Civil Works) to remove integral kerb and gutter.
- The subgrade shall be thoroughly compacted by the use of vibratory compaction equipment until it shows no signs of movement, or as directed by Council.
- When considering kerb ramp locations the number and position of ramps is to be determined after considering the general movement of pedestrians, location of marked foot crossings and the position of any existing obstacles such as traffic signals, gully pits, etc. The location of kerb ramps must ensure that users are not put at risk from traffic of any kind, bearing in mind that a disabled person's crossing time may be longer than that of persons having full mobility.
- Kerbing and guttering to be constructed in accordance with Council Plan A4 2276A.
- Where the existing footpath alignment is at the rear of kerb the wing shall be extended to 1200mm for 150mm high kerb, and 1600mm for 200mm high kerb, or as directed by Council.

Not to Scale. All Dimensions in Millimetres.

WARRINGAH COUNCIL	Plan No.
Standard Kerb Access Ramp Detail	A4 7284

AMENDED: Nov 1994, Feb 2000, Dec 2006



PLAN

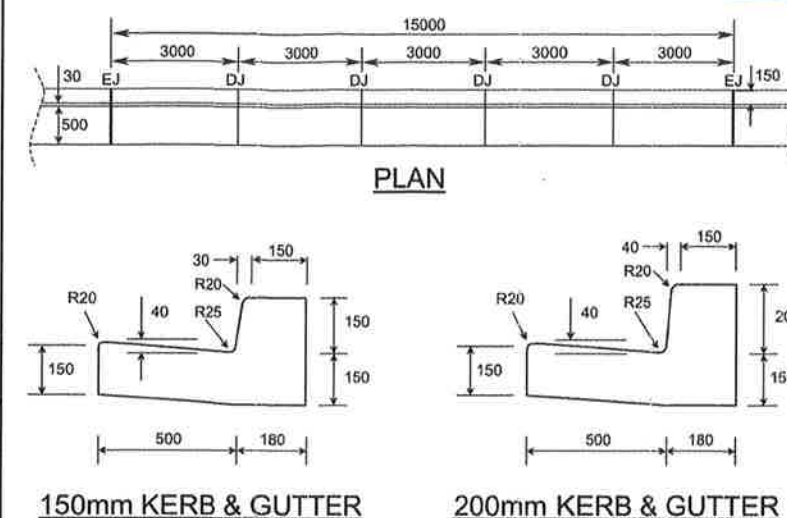
TYPICAL CROSS SECTION

NOTES:

- The width of the concrete footpath shall be 1200mm except where placed against the kerb, where with footpath width shall be increased to 1500mm. The location of the concrete footpath shall be generally located centrally within the road reserve and parallel to the street alignment, or as directed either by Council or Accredited Certifier (Civil Works). Consideration should be given to avoiding existing obstacles such as traffic signals, street trees, etc.
- The concrete shall be tamped and screeded, and lightly broom finished. All exposed edges shall be neatly rounded with a proper edging tool forming a 50mm margin. Concrete shall have a depth of 75mm, minimum compressive strength of 25MPa at 28 days.
- The subgrade shall be thoroughly compacted by the use of vibratory compaction equipment until it shows no signs of movement, or as directed either by Council or an Accredited Certifier (Civil Works).
- Batters in cut and fill situations shall have slopes desirably not exceeding 1V: 5H and up to 1V: 3H where so determined either by Council or an Accredited Certifier (Civil Works). The top and lower edge of the cutting shall be neatly rounded. In any circumstance where the batter slope will exceed that which can be maintained with a domestic lawn mower, the batter shall be treated in a manner other than turf to the satisfaction of Council.
- On completion of works, grassed footways are to be restored to a condition at least equivalent to that which existed prior to commencement. Any bare ground arising from the construction works is to be returned. Minor differences in levels, up to 20mm, may be accommodated by top dressing where the existing turf is in good condition.
- Kerb and gutter to be constructed in accordance with Council Plan A4 2276/A and specifications.
- The construction of concrete footpath on the road reserve must be completed by a Council approved concrete contractor.
- EJ - Expansion Joint (10mm Mastic).  
DJ - Dummy Joint

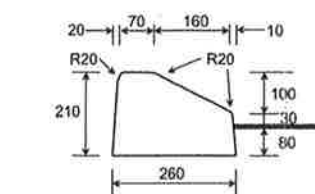
Not to Scale. All Dimensions in Millimetres.

WARRINGAH COUNCIL	Plan No.
Standard Concrete Footpath Detail	A4 10536



150mm KERB & GUTTER

200mm KERB & GUTTER



MOUNTABLE TYPE KERB

NOTES:

- Kerb and gutter shall be poured in PLAIN CONCRETE and finished with a steel trowel. Minimum compressive strength of concrete shall be 25MPa at 28 days.
- The subgrade shall be thoroughly compacted by the use of vibratory compaction equipment until it shows no signs of movement, or as directed by Council.
- Where Council or an Accredited Certifier (Civil Works) directs that the gutter be retained, the contractor shall place a 75mm deep saw cut in the gutter invert and remove kerb and/or layback.
- Where Council or an Accredited Certifier (Civil Works) directs that the gutter be removed, a Road Opening Permit must be obtained from Council's Customer Service Centre prior to commencing work. Once the permit is established the contractor may commence vehicle crossing works. Upon completion of the works, temporary restoration shall be provided as set out in the 'Specification For Trench Construction Within Council Roads'.
- The construction of all vehicle crossings and associated works on the road reserve must be completed by a Council approved concrete contractor.
- EJ - Expansion Joint - 10mm Mastic.  
R - Radius  
DJ - Dummy Joint

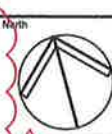
Not to Scale. All Dimensions in Millimetres.

WARRINGAH COUNCIL	Plan No.
Standard Kerb & Gutter Detail	A4 2276/A

AMENDED: October 1990, December 2006

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Issue	Description	Date	Drawn	Approved
01	REVISED DRAWING SET - REVISED EXTENT OF WORKS	20.03.23	NB	BK
H	NOT ISSUED	-	-	-
G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK



Client  
ARMADA AVALON PTY LTD

Architect  
ENVIRONA STUDIO



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T +61 2 4324 3499

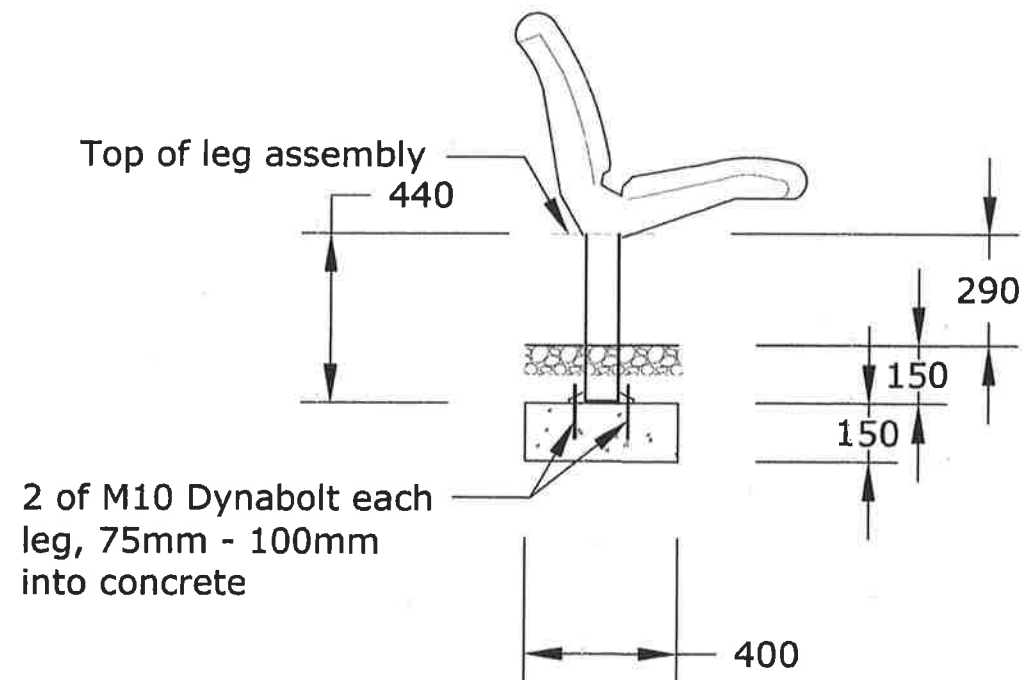
Project  
PROPOSED DEVELOPMENT

No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

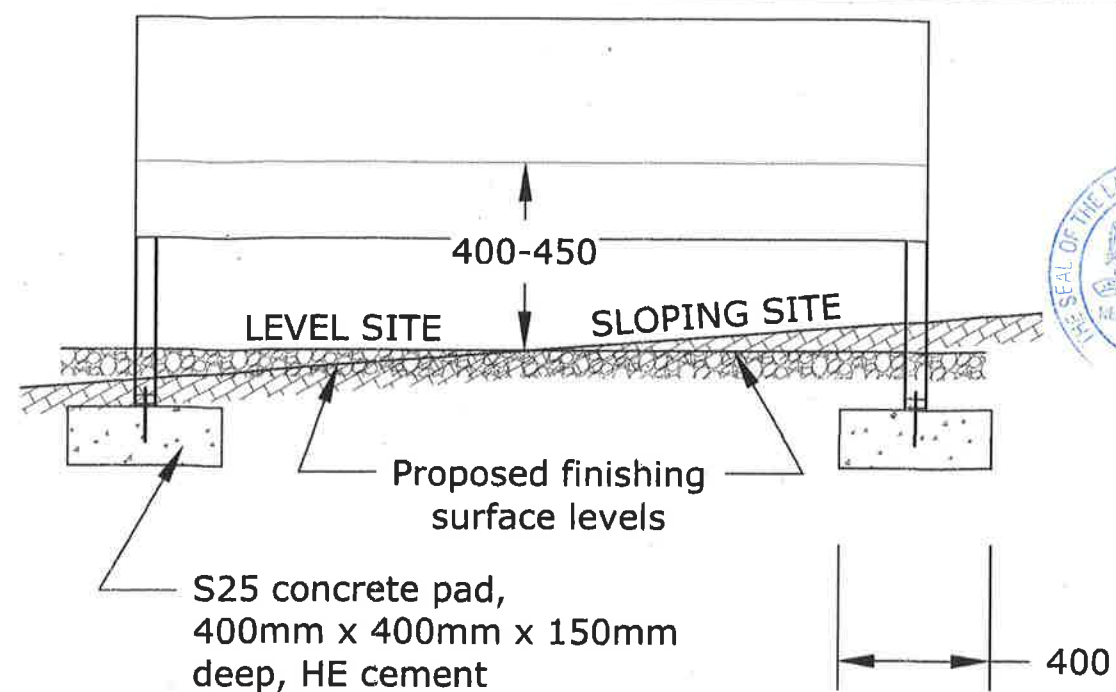
Drawing Title  
FOOTPATH DETAILS  
SHEET No.3

Drawn	Date	Scale	A1	Q.A. Check	Date
SJ	03.06.21	AS NOTED	-	-	-
Designed	Project No.	Dep. No.	Issue		
BK	CC200310	P20	01		





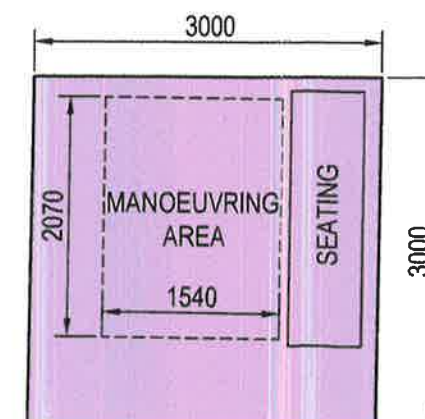
**SIDE ELEVATION**



**FRONT ELEVATION**

REST POINT TO PROVIDE A SEAT, DESIGNED IN ACCORDANCE WITH AS1428.2 (1992) CLAUSE 27.1(a), "STREET FURNITURE".

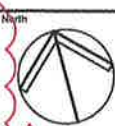
**TYPICAL PEDESTRIAN SEAT DETAIL**  
SCALE - NTS



**TYPICAL PEDESTRIAN SEAT PLAN**  
SCALE - NTS

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Issue	Description	Date	Drawn	Approved
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G	NOT ISSUED	-	-	-
F	ISSUED FOR CLIENT REVIEW	06.07.21	SSD	BK



Client  
**ARMADA AVALON PTY LTD**

Architect  
**ENVIRONA STUDIO**



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Project  
**PROPOSED DEVELOPMENT**

No.27 - 29  
NORTH AVALON ROAD  
AVALON BEACH

Drawing Title  
**FOOTPATH DETAILS  
SHEET No.5**

Drawn	Date	Scale	A1	Q.A. Check	Date
SJ	03.08.21	AS NOTED	-	-	-
Designed	Project No.	Dwg. No.	Issue		
BK	CC200310	P22	01		



LAND AND ENVIRONMENT  
COURT OF NSW  
FILED ON  
12 MAY 2023  
INT