

COURTNEY DRIVE UPPER COOMERA

OPERATIONAL WORKS STAGE 03 No. 41901-03

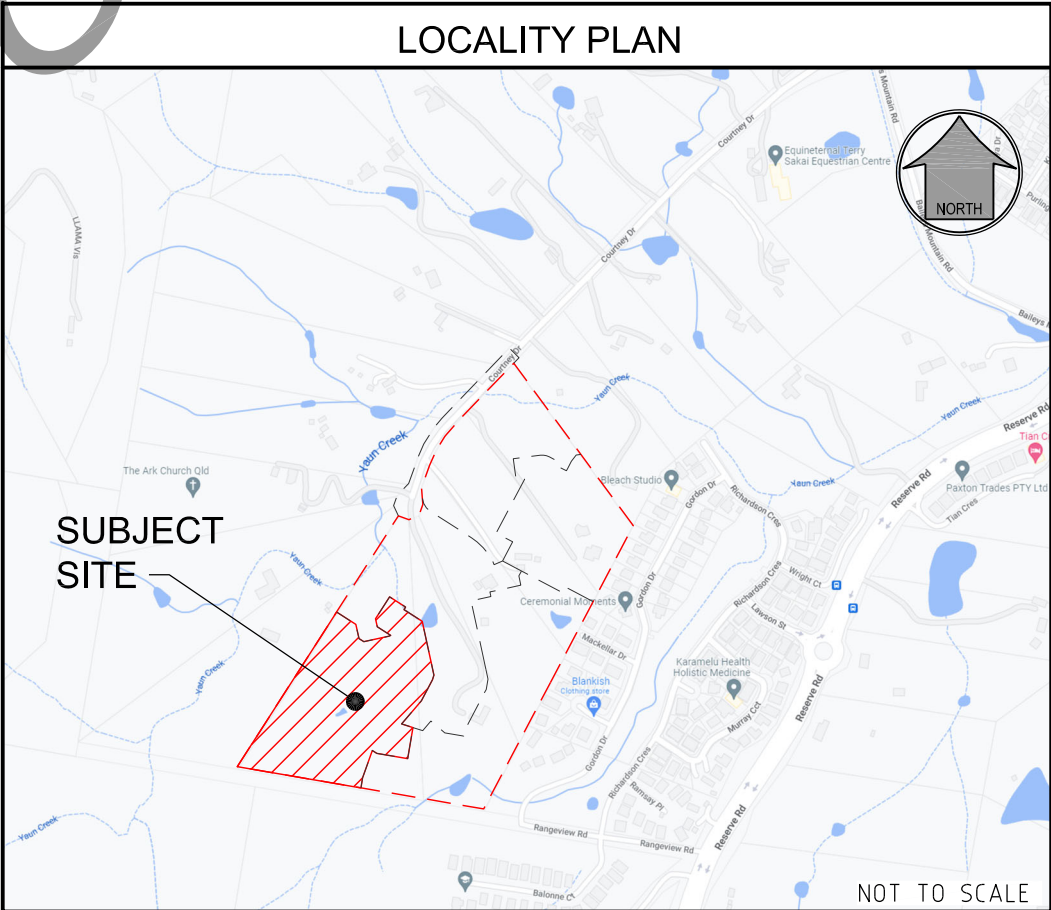
SCHEDULE OF DRAWINGS					
NUMBER	REV. NO.	TITLE	NUMBER	REV. NO.	TITLE
GENERAL			ROADS: INTERSECTION GRADING		
41901-03-000	D	COVER SHEET	41901-03-400	A	DETAILS SHEET 01
41901-03-003	A	SAFETY IN DESIGN	41901-03-410	B	DETAILS SHEET 01
41901-03-004	A	RISK MATRIX & NOTES	ROADS: LINEMARKING AND SIGNAGE		
41901-03-005	A	41901-03-005 - ROAD HIERARCHY & STAGING PLAN SHEET 01	41901-03-420	A	PLAN SHEET 01
EARTHWORKS: EXISTING FEATURES & DEMOLITION			SEWER: SEWER RETICULATION		
41901-03-020	A	PLAN SHEET 01	41901-03-500	B	PLAN SHEET 01
EARTHWORKS: RETAINING WALL & DETAIL GRADING			41901-03-501	B	PLAN SHEET 02
41901-03-060	B	PLAN SHEET 01	41901-03-510	A	DETAILS SHEET 01
41901-03-061	C	PLAN SHEET 02	SEWER: PROFILES		
41901-03-062	B	PLAN SHEET 03	41901-03-530	B	SHEET 01
41901-03-070	A	DETAILS SHEET 01	41901-03-531	B	SHEET 02
41901-03-071	A	DETAILS SHEET 02	SEWER: HOUSE CONNECTION PROFILES		
41901-03-072	A	FINAL TRIM DETAILS	41901-03-550	B	SHEET 01
EARTHWORKS: FINAL SURFACE & SEDIMENT AND EROSION CONTROL			DRAINAGE: STORMWATER		
41901-03-080	B	PLAN SHEET 01	41901-03-600	B	PLAN SHEET 01
41901-03-081	B	PLAN SHEET 02	41901-03-601	B	PLAN SHEET 02
ROADS			DRAINAGE: PROFILES		
ROADS: COMBINED SERVICES			41901-03-620	B	SHEET 01
41901-03-090	C	PLAN SHEET 01	41901-03-621	A	SHEET 02
ROADS: ROADWORKS			DRAINAGE: PIT DETAILS & TYPICAL DETAILS		
41901-03-100	C	PLAN SHEET 01	41901-03-640	B	OUTLETS & TYPICAL DETAILS SHEET 01
41901-03-120	A	DETAILS SHEET 01	41901-03-650	A	PIT DETAILS SHEET 01
ROADS: LONGITUDINAL SECTIONS			41901-03-651	A	PIT DETAILS SHEET 02
41901-03-200	A	ROAD 02	DRAINAGE: CATCHMENT		
41901-03-201	A	ROAD 04	41901-03-670	B	PLAN SHEET 01
ROADS: CROSS SECTIONS			41901-03-671	B	PLAN SHEET 02
41901-03-300	A	ROAD 02	DRAINAGE: CALCULATION TABLES		
41901-03-301	A	ROAD 04 SHEET 01	41901-03-680	A	MINOR AND MAJOR
41901-03-302	A	ROAD 04 (Cont.) SHEET 02	WATER: WATER RETICULATION		
41901-03-303	A	ROAD 04 (Cont.) SHEET 03	41901-03-700	C	PLAN SHEET 01
			41901-03-710	A	DETAILS



CLIENT



SUB-CONSULTANTS



R. P. DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

DRAWING NUMBER
41901-03-000

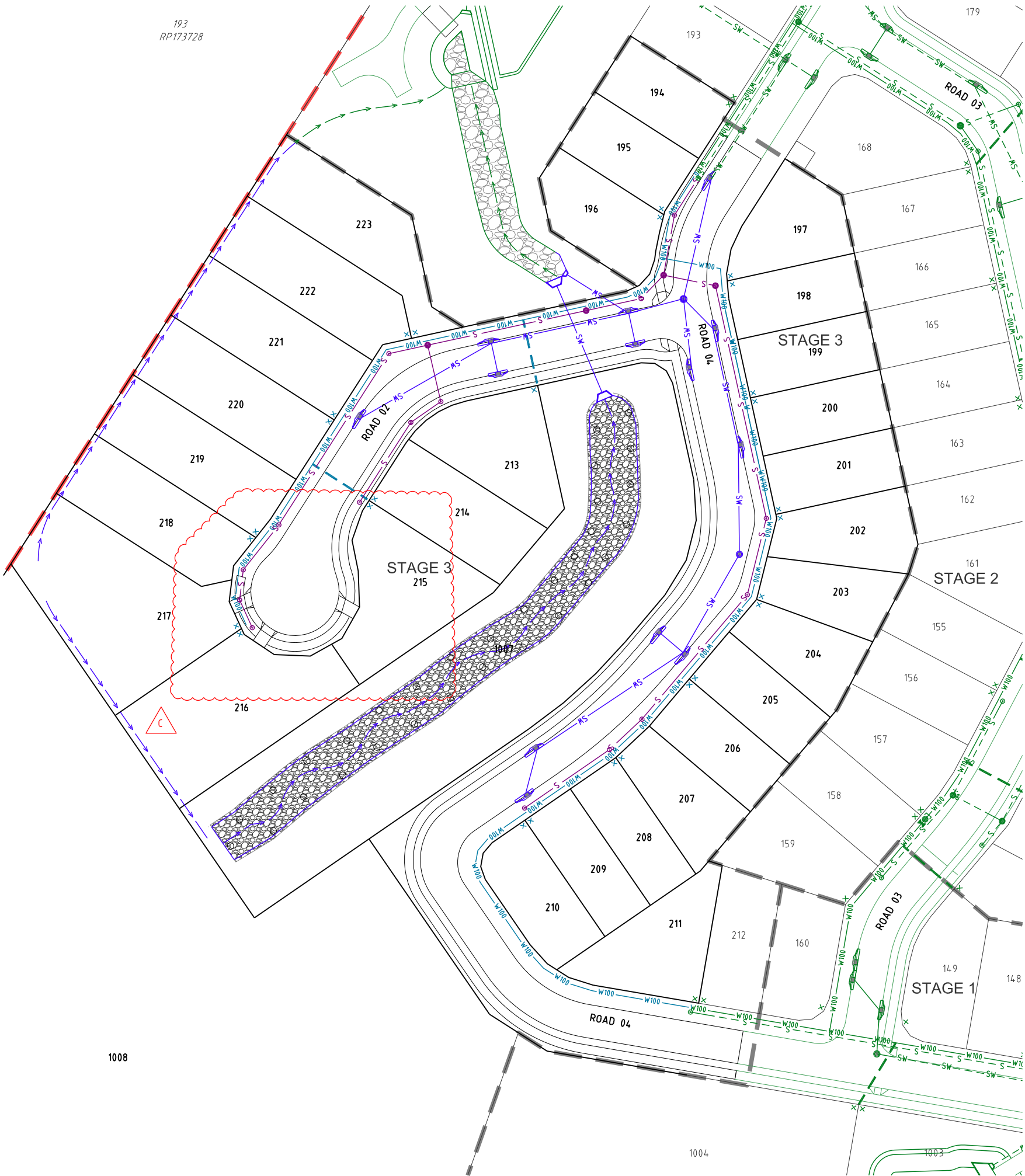
AMEND.
D

CONSTRUCTION SERVICES

1. CONSTRUCTION OF
SEWER/ROOFWATER/STORMWATER/SERVICES
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE
OF TRENCH & TO PROTECT PIPE WORK & DIRECT
SURFACE MATERIAL AWAY FROM EXCAVATIONS.
TOPSOIL & GRASS SEED AREAS IN ALLOTMENTS
IMMEDIATELY AFTER COMPLETING THE SEWER &
ROOFWATER DRAINAGE CONSTRUCTION.
DEPRESS GROUND AROUND TEMPORARY FIELD
INLETS TO CREATE SILT POND.
2. TRIP HAZARD
MANHOLES OR STRUCTURES INSTALLED IN THE
ROAD, FOOTPATH OR VERGE MUST MATCH NEATLY
WITH NO TRIP HAZARD.
3. EXISTING SERVICES - EXTERNAL WORKS
THE LOCATIONS OF ALL EXISTING SERVICES WITHIN
THE WORK AREA SHALL BE CONFIRMED BY THE
CONTRACTOR PRIOR TO CONSTRUCTION COMMENCING.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO
CONTACT THE RELEVANT AUTHORITIES & TO
ENSURE THAT THE EXISTING SERVICES ARE NOT
DAMAGED OR DISTURBED IN ANY WAY BY THE
CONTRACT WORKS.

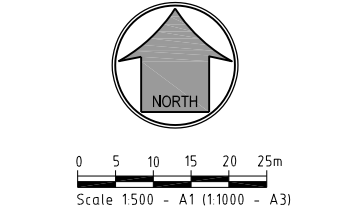
LEGEND

---	EXISTING PROPERTY LINE
---	EXISTING KERB (INVERT)
---	EXISTING FOOTPATH
RM	EXISTING RISING MAIN
S	EXISTING SEWER
SW	EXISTING STORMWATER
RW	EXISTING ROOFWATER
SS	EXISTING SUBSOIL
W100	EXISTING WATER
W150	EXISTING WATER
W200	EXISTING WATER
W250	EXISTING WATER
W300	EXISTING WATER
---	EXISTING WATER CONDUIT
---	PROPOSED PROPERTY LINE
---	PROPOSED KERB (INVERT)
---	PROPOSED FOOTPATH
RM	PROPOSED RISING MAIN
S	PROPOSED SEWER
SW	PROPOSED STORMWATER
RW	PROPOSED ROOFWATER
SS	PROPOSED SUBSOIL
W100	PROPOSED WATER
W150	PROPOSED WATER
W200	PROPOSED WATER
W250	PROPOSED WATER
W300	PROPOSED WATER
---	PROPOSED WATER CONDUIT
---	FUTURE PROPERTY LINE
---	FUTURE KERB (INVERT)
---	FUTURE FOOTPATH
RM	FUTURE RISING MAIN
S	FUTURE SEWER
SW	FUTURE STORMWATER
RW	FUTURE ROOFWATER
SS	FUTURE SUBSOIL
W100	FUTURE WATER
W150	FUTURE WATER
W200	FUTURE WATER
W250	FUTURE WATER
W300	FUTURE WATER
---	FUTURE WATER CONDUIT
---	SITE BOUNDARY
---	STAGE BOUNDARY



PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

STAGE 03
RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL



C	15-08-24	DRIVEWAYS ADDED	BL
B	22-02-24	SCOUR AMENDED	BL
A	16-11-23	COUNCIL ISSUE	RK
REV	DATE	DESCRIPTION	INT

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DRAWING TITLE
**COMBINED SERVICES
PLAN
SHEET 01**

MORTONS
urban solutions
Urban & Regional Planning
Civil Engineering
Project Coordination

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DESIGNED RB	DRAWN EP
APPROVED <i>AK</i>	DATE 16-11-23
DRAWING NUMBER 41901-03-090	REV C

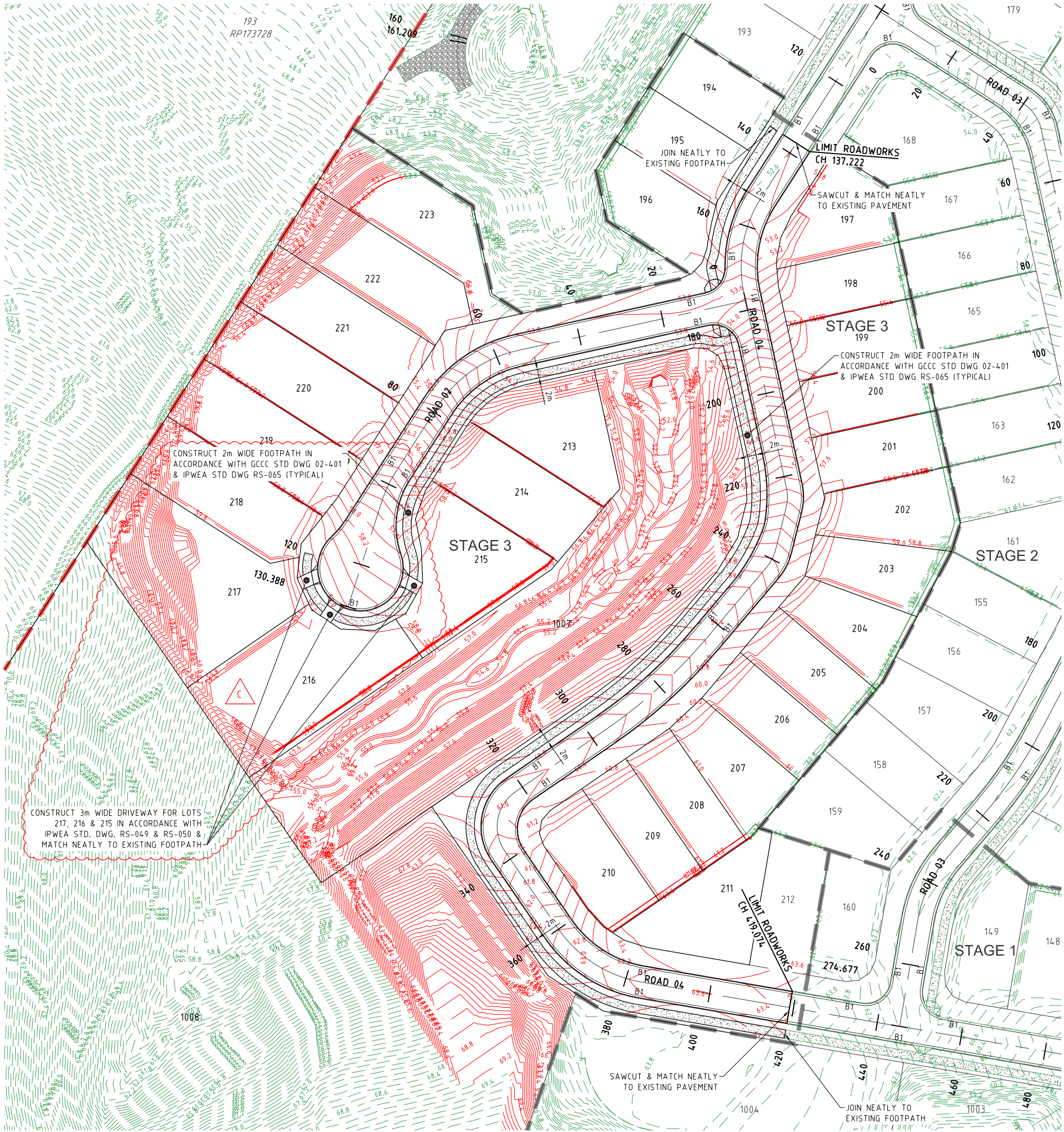


ROADWORKS

1. PAVEMENT DEPTHS
- a) THE DESIGN PAVEMENT DEPTHS ALLOWED IN EARTHWORKS CALCULATIONS ARE BASED ON THE DEPTHS SHOWN IN THE SCHEDULE OF PAVEMENT DEPTHS ON DRAWING 120.
- b) THE PAVEMENT DEPTHS GIVEN ARE DESIGN DEPTHS ONLY & MAY BE VARIED AFTER SUB-GRADE TESTS ARE TAKEN. THE CONTRACTOR IS TO PROVIDE THE SUPERINTENDENT A SUBGRADE C.B.R. REPORT PREPARED BY A SUITABLY QUALIFIED GEOTECHNICAL ENGINEER.
- THE SUPERINTENDENT WILL COORDINATE THE AUTHORITIES APPROVAL OF THE PAVEMENT DESIGN.
- c) REFER TO DWG. 120 FOR TYPICAL ROAD SECTIONS.
2. TESTING
- ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A. TESTING AUTHORITY. ALL SITE FILLING SHALL BE TESTED AT LEVEL 1 REQUIREMENTS.
3. SUBSOIL DRAINS
- SUBSOIL DRAINS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE LOCAL AUTHORITY'S SPECIFICATIONS. SUBSOIL DRAINS SHALL BE PLACED UNDER ALL KERB STRUCTURES & ARE TO BE CONSTRUCTED TO A DEPTH GREATER THAN THAT OF THE INVERT OF THE DEEPEST SERVICE CROSSING.
4. MITRE DRAINS
- MITRE DRAINS ARE TO BE CONSTRUCTED ALONG THE CUT/FILL INTERFACE & SAG/LOW POINTS OF ALL ROADS. CONTRACTOR TO REQUEST DIRECTION FROM SUPERINTENDENT WHETHER TO INSTALL MITRE DRAIN AT ROCK ENCOUNTERED IN SUBGRADE. ALL MITRE DRAINS MUST BE FREE DRAINING & TIE INTO THE ADJACENT SUBSOIL DRAINS.
5. ROCK
- THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR RATES.
6. TURF
- 1.0m TURF STRIP TO BE INSTALLED BEHIND THE BACK OF ALL KERBS. A PERPENDICULAR TURF STRIP AT MAXIMUM 10m INCREMENTS MUST BE INSTALLED TO FULL VERGE WIDTH FOR SEDIMENT & EROSION CONTROL PURPOSES.
7. KERBS
- ALL KERBS TO BE CONSTRUCTED IN ACCORDANCE WITH AUTHORITY STANDARDS
8. PAVEMENT TIE-IN
- PAVEMENT TIE-IN TO BE IN ACCORDANCE WITH DWG. 120

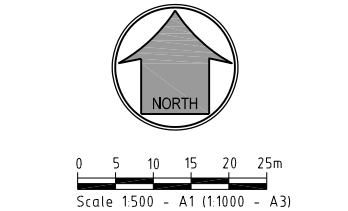
LEGEND

- EXISTING KERB (INVERT)
- EXISTING KERB (LIP & BACK)
- EXISTING FOOTPATH
- EXISTING PROPERTY LINE
- 1.0 — EXISTING CONTOURS
- — FUTURE KERB
- — FUTURE FOOTPATH
- — FUTURE PROPERTY LINE
- 1.0 — FUTURE CONTOURS
- — CONTROL LINE / CENTER OF ROAD
- — PROPOSED KERB (INVERT)
- — PROPOSED KERB (LIP & BACK)
- — PROPOSED FOOTPATH
- — PROPOSED PROPERTY LINE
- — SITE BOUNDARY
- — STAGE BOUNDARY
- 1.0 — DESIGN CONTOURS
- — PROPOSED CONCRETE
- 41.065 CENTRELINE CHAINAGE



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UPPER COOMERA**

STAGE 03
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LOCAL AUTHORITY - GOLD COAST CITY COUNCIL



C	15-08-24	DRIVEWAY & NOTES ADDED	BL
B	22-02-24	CONTOURS AMENDED	BL
A	16-11-23	COUNCIL ISSUE	RK
REV	DATE	DESCRIPTION	INT

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DRAWING TITLE

ROADWORKS
PLAN
SHEET 01

MORTONS
urban**solutions**
Urban & Regional Planning
Civil Engineering
Project Coordination

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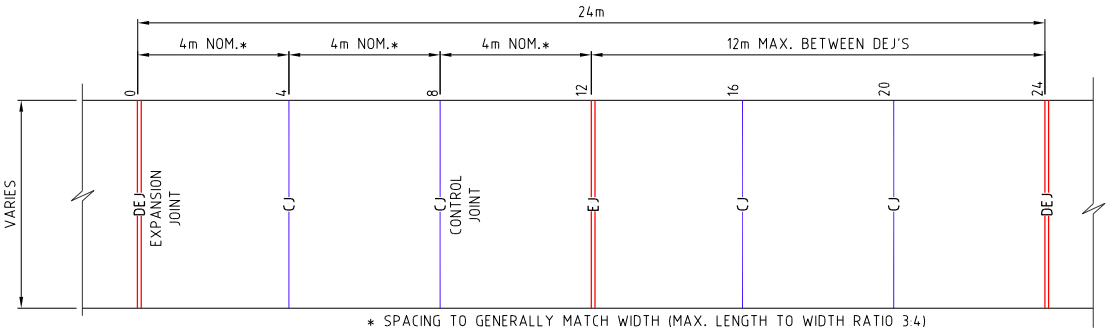
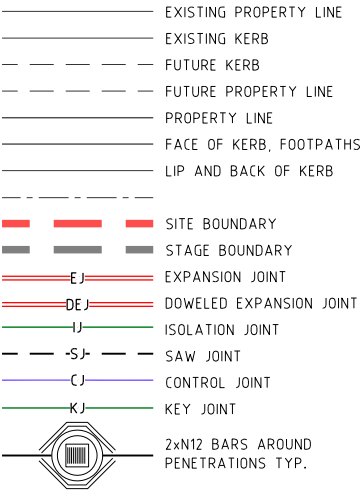
DESIGNED RB	DRAWN EP
APPROVED <i>A.R.M.</i>	REQ 4706 DATE 16-11-23
DRAWING NUMBER 41901-03-100	REV C



CONCRETE PAVEMENT DRIVEWAY:

1. CONCRETE MIX
THE CONCRETE SHALL HAVE A MINIMUM 28 DAY CHARACTERISTIC COMPRESSIVE STRENGTH AS SPECIFIED IN THE SCHEDULE OF CONCRETE PAVEMENTS TABLE. MAXIMUM WATER/CEMENT RATIO OF 0.45 & A MINIMUM CEMENT CONTENT OF 300kg/m³.
2. SUBGRADE PREPARATION
THE SUBGRADE TO THE CONCRETE PAVEMENT AREAS SHALL BE PREPARED THE SAME AS CONVENTIONAL ROADS. REFER TO SCHEDULE OF CONCRETE PAVEMENTS TABLE.
3. TRAFFIC
TRAFFIC SHALL NOT BE ALLOWED ON THE FINISHED CONCRETE PAVEMENT FOR AT LEAST 14 DAYS AFTER COMPLETION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING MEASURES TO PREVENT UNAUTHORISED ACCESS.
4. JOINTS
ALL JOINTS SHALL BE LOCATED GENERALLY PERPENDICULAR TO THE CENTRELINE. ALL CONTROL JOINTS TO BE COMPLETED AS SOON AS CONCRETE HAS CURED SUFFICIENTLY SO AS NOT TO DAMAGE THE SLAB SURFACE.
ALL JOINTS ARE TO BE INSTALLED AS DETAILED ON IPWEAQ STD DWG RS-065.
5. GENERAL
THE GRAVEL PAVEMENT SHALL BE NEATLY PROFILED & TRIMMED TO ENSURE CONSTANT CONCRETE DEPTHS & PROFILES. ACTUAL CONSTRUCTION REQUIREMENTS MAY VARY FROM THE DETAILS SHOWN & THEREFORE ALL CONSTRUCTION DETAILS SHOULD BE VERIFIED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION COMMENCING. PROVIDE ABLEFLEX BETWEEN KERB & DRIVEWAY.
6. COMPLIANCE STANDARDS
SLIP RESISTANCE OF SURFACE MATERIALS IN ACCORDANCE WITH AUSTRALIAN STANDARDS.
AS/NZS 4586 2013 SLIP RESISTANCE OF NEW PEDESTRIAN SURFACE MATERIALS.
AS/NZS 4663 2013 SLIP RESISTANCE MEASUREMENT OF EXISTING PEDESTRIAN SURFACES
HB A A 197: 1999 "AN INTRODUCTORY GUIDE TO THE SLIP RESISTANCE OF PEDESTRIAN SURFACE MATERIALS"

LEGEND



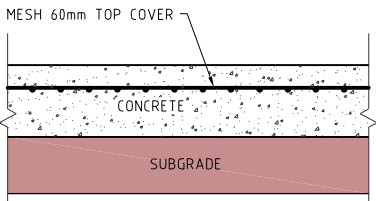
TYPICAL CONCRETE PAVEMENT DETAIL FOR DRIVEWAYS AND ROADS

SCALE 1:50 - A1 (1:100 - A3)

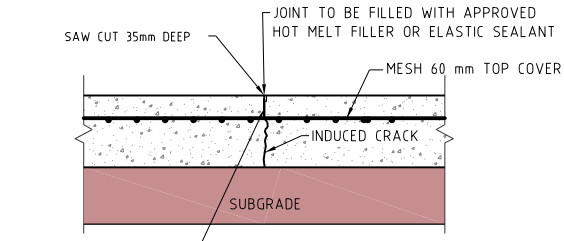
SCHEDULE OF CONCRETE PAVEMENTS

FUNCTION	SURFACING	SUBGRADE PREPARATION	THICKNESS 'T'	STRENGTH	REINFORCING
FOOTPATH 2.0M WIDE	HEAVY BROOM FINISH	50mm SAND BLINDING LAYER	100mm	32 mPa	SL 72 MESH

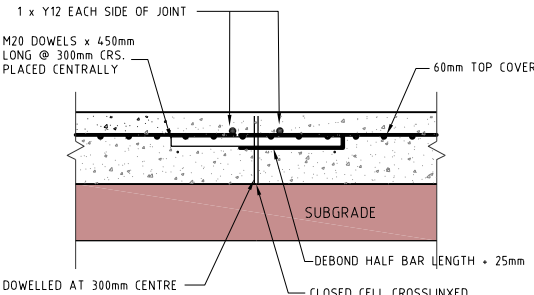
NOTE: FOOTPATH JOINTING TO BE IN ACCORDANCE WITH IPWEAQ DWG RS-065
SUPERINTENDENT TO CONFIRM SUBGRADE PREPARATION



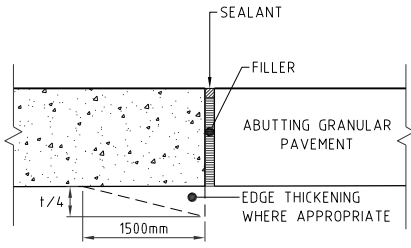
TYPICAL BROOM FINISHED
CONCRETE PAVEMENT DETAIL
NOT TO SCALE



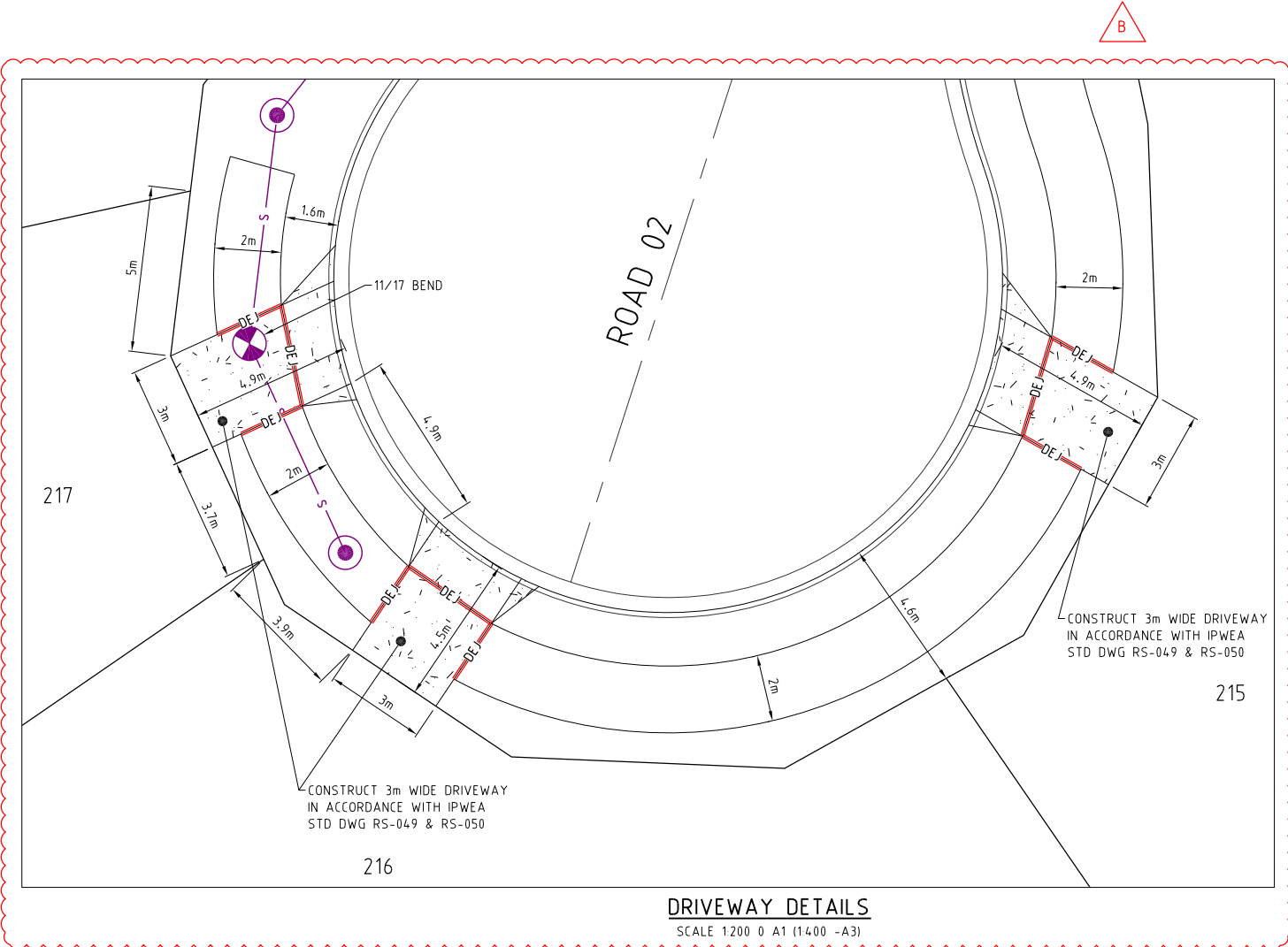
CONTROL JOINT (4m SPACING) (CJ)
NOT TO SCALE



DOWELLED EXPANSION JOINT
DETAIL (24m SPACING) (EJ)
NOT TO SCALE



ISOLATION JOINT (IJ)
NOT TO SCALE



PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

STAGE 03

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 1 2 3 4 5m
Scale 1:100 - A1 (1:200 - A3)

0 2 4 6 8 10m
Scale 1:200 - A1 (1:400 - A3)

0 0.5 1.0 1.5 2.0 2.5m
Scale 1:50 - A1 (1:100 - A3)

B	15-08-24	DRIVEWAY DETAILS ADDED	BL
A	11-10-23	COUNCIL ISSUE	BA
REV	DATE	DESCRIPTION	INT

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ASSOCIATED CONSULTANTS



DRAWING TITLE

CONCRETE
JOINTING DETAILS
SHEET 01



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DESIGNED RB	DRAWN EMH
APPROVED <i>A.K.M.</i>	RECHECKED RPE 4706
DRAWING NUMBER 41901-03-410	REV B

SEQ CODE WATER NOTES

SEQ CODE NOTES COPIED DIRECTLY FROM DRAWING SEQ-WAT-1101-3.

VEGETATION PROTECTION

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED & ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION & REMAIN UNTIL COMPLETION.
- C. TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- A. TOPSOIL & SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- C. IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA, THE CONTRACTOR MUST PREPARE A RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL & MANAGE THE ACID SULPHATE SOILS AS PER THE MANUAL.

CREEK CROSSINGS

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

REHABILITATION

- A. PREDISTURBANCE SOIL PROFILES & COMPACTION LEVELS SHALL BE REINSTATED.
- B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

GENERAL NOTES

1. ALL WORK & MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS & STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS & WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS & MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED & DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED & IF APPROPRIATE, APPROVED BY THE SEQ-SP.
8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
9. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. SEQ-WAT-1410-1.
10. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.

ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

PROJECT SPECIFIC WATER NOTES

- a. ALL PROPERTY CONNECTION ROAD CROSSINGS TO BE SLEEVED WITH DN100 uPVC FOR COGC CONDUIT.
- b. ALL MATERIALS ARE TO BE SUPPLIED & CONSTRUCTED IN ACCORDANCE WITH SEQ CODE.
- c. WATER METERS ARE TO BE SUPPLIED & INSTALLED AT ALL WATER SERVICE / CONNECTION POINTS IN ACCORDANCE WITH SEQ-WAT-1106-1. READYTAPS ARE CURRENTLY NOT ACCEPTED BY C.O.G.C. TAPPING BANDS TO BE INSTALLED WITH MIN. DISTANCE OF 600mm BETWEEN EACH TAPPING BAND IS REQUIRED.
- d. THRUST BLOCKS TO BE LOCATED & INSTALLED BY CONTRACTOR IN ACCORDANCE WITH SEQ CODE.
- e. TRENCH STOPS & BULKHEADS TO BE IN ACCORDANCE WITH WATER AUTHORITY REQUIREMENTS.
- f. THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR WATER RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT.
- g. FOOTPATHS SHOWN FOR INFORMATION PURPOSES ONLY.
- h. ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WORKPLACE HEALTH & SAFETY LEGISLATION.
- i. MINIMUM WATERMAIN COVER TO BE IN ACCORDANCE WITH SECTION 7.4.2 TABLE 7.2 OF THE SEQ AMENDMENT TO WATER SUPPLY CODE OF AUSTRALIA.
- j. CONTRACTOR TO PAY ALL FEES & CHARGES ASSOCIATED WITH CONNECTIONS.
- k. END OF LINE ARRANGEMENTS (EG. CUL-DE-SAC HEADS) TO BE CONSTRUCTED IN ACCORDANCE WITH SEQ-WAT-1104-1.
- l. TEMPORARY CONSTRUCTION HYDRANTS TO BE PROVIDED IN ACCORDANCE WITH SEQ-WAT-1303-1 AT ALL CONNECTIONS.
- m. ALL LIVE CONNECTIONS ARE TO BE ORGANISED BY THE CIVIL CONTRACTOR & UNDERTAKEN BY COUNCIL AT THE DEVELOPERS EXPENSE.

LEGEND

	EXISTING 100Ø WATER MAIN		SITE BOUNDARY
	EXISTING 150Ø WATER MAIN		STAGE BOUNDARY
	EXISTING 200Ø WATER MAIN		PROPOSED 100Ø WATER MAIN
	EXISTING 225Ø WATER MAIN		PROPOSED 150Ø WATER MAIN
	EXISTING 250Ø WATER MAIN		PROPOSED 200Ø WATER MAIN
	EXISTING 300Ø WATER MAIN		PROPOSED 225Ø WATER MAIN
	EXISTING FOOTPATH		PROPOSED 250Ø WATER MAIN
	EXISTING KERB (INVERT)		PROPOSED 300Ø WATER MAIN
	EXISTING PROPERTY LINE		HYDRANT
	FUTURE 100Ø WATER MAIN		TEE
	FUTURE 150Ø WATER MAIN		REDUCER
	FUTURE 200Ø WATER MAIN		SLUICE VALVE
	FUTURE 225Ø WATER MAIN		ENDCAP
	FUTURE 250Ø WATER MAIN		SCOUR VALVE
	FUTURE 300Ø WATER MAIN		AIR VALVE
	FUTURE KERB (INVERT)		METER LOCATION
	FUTURE PROPERTY LINE		TRENCH STOP
	FUTURE FOOTPATH		SERVICE CONDUIT
	PROPOSED KERB (INVERT)		DICL ROAD CROSSING
	PROPOSED PROPERTY LINE		
	PROPOSED FOOTPATH		

WATER PIPE SPECIFICATIONS

WATER MAIN LOCATION	PIPE MATERIAL SPECIFICATION
FOOTPATH VERGE	PVC-M SERIES 2 PN16
ROAD CROSSING	DICL PN35

