

COURTNEY DRIVE UPPER COOMERA

OPERATIONAL WORKS

STAGE 02

No. 41901-02

SCHEDULE OF DRAWINGS

NUMBER	REV. NO.	TITLE	NUMBER	REV. NO.	TITLE
GENERAL			ROADS: LINEMARKING AND SIGNAGE		
41901-02-000	G	COVER SHEET	41901-02-420	B	PLAN SHEET 01
41901-02-003	A	SAFETY IN DESIGN	41901-02-421	B	PLAN SHEET 02
41901-02-004	A	RISK MATRIX & NOTES	SEWER: SEWER RETICULATION		
41901-02-005	C	ROAD HIERARCHY & STAGING PLAN SHEET 01	41901-02-500	D	PLAN SHEET 01
41901-02-006	A	ROAD HIERARCHY & STAGING PLAN SHEET 02	41901-02-501	C	PLAN SHEET 02
EARTHWORKS: EXISTING FEATURES & DEMOLITION			41901-02-502	A	PLAN SHEET 03
41901-02-020	C	PLAN SHEET 01	41901-02-510	A	DETAILS
41901-02-021	A	PLAN SHEET 02	SEWER: PROFILES		
EARTHWORKS: BULK EARTHWORKS CUT FILL			41901-02-530	C	SHEET 01
41901-02-040	C	PLAN SHEET 01	41901-02-531	B	SHEET 02
41901-02-041	A	PLAN SHEET 02	41901-02-532	B	SHEET 03
41901-02-042	A	PLAN SHEET 03	41901-02-533	B	SHEET 04
41901-02-045	B	GEOTECHNICAL REQUIREMENTS PLAN	41901-02-534	B	SHEET 05
41901-02-050	C	EARTHWORKS SECTION KEY PLAN	41901-02-535	B	SHEET 06
41901-02-051	B	SECTIONS-SHEET 01	SEWER: HOUSE CONNECTION PROFILES		
41901-02-052	C	SECTIONS-SHEET 02	41901-02-550	B	SHEET 01
EARTHWORKS: RETAINING WALL & DETAIL GRADING			41901-02-551	B	SHEET 02
41901-02-060	C	PLAN SHEET 01	DRAINAGE: STORMWATER		
41901-02-060A	B	PLAN SHEET 01 A	41901-02-600	C	PLAN SHEET 01
41901-02-061	C	PLAN SHEET 02	41901-02-601	B	PLAN SHEET 02
41901-02-062	B	PLAN SHEET 03	41901-02-602	A	PLAN SHEET 03
41901-02-063	B	PLAN SHEET 04	DRAINAGE: PROFILES		
41901-02-070	B	DETAILS	41901-02-620	D	SHEET 01
41901-02-071	A	FINAL TRIM DETAILS	41901-02-621	B	SHEET 02
EARTHWORKS: PADMOUNT SECTIONS			41901-02-622	B	SHEET 03
41901-02-076	C	PADMOUNT 6 SHEET 01	41901-02-623	B	SHEET 04
EARTHWORKS: FINAL SURFACE & SEDIMENT AND EROSION CONTROL			41901-02-624	A	SHEET 05
41901-02-080	C	PLAN SHEET 01	41901-02-625	A	SHEET 06
41901-02-081	B	PLAN SHEET 02	41901-02-626	C	SHEET 07
41901-02-082	B	PLAN SHEET 03	DRAINAGE: PIT OUTLETS & TYPICAL DETAILS		
41901-02-083	A	PLAN SHEET 04	41901-02-640	C	OUTLETS & TYPICAL DETAILS SHEET 01
ROADS: COMBINED SERVICES			41901-02-641	B	RCBC OUTLET
41901-02-090	D	PLAN SHEET 01	41901-02-642	C	STABILISATION PLAN
41901-02-091	C	PLAN SHEET 02	DRAINAGE: PIT DETAILS		
41901-02-092	B	PLAN SHEET 03	41901-02-650	B	PIT DETAILS SHEET 01
ROADS: ROADWORKS			41901-02-651	B	PIT DETAILS SHEET 02
41901-02-100	E	PLAN SHEET 01	41901-02-652	B	PIT DETAILS SHEET 03
41901-02-101	B	PLAN SHEET 02	DRAINAGE: BASINS & CULVERTS		
41901-02-102	A	PLAN SHEET 03	41901-02-660	B	PLAN SHEET 01
41901-02-120	A	DETAILS	41901-02-661	B	PLAN SHEET 02
ROADS: LONGITUDINAL SECTIONS			41901-02-662	A	SECTIONS SHEET 01
41901-02-200	B	COURTNEY DRIVE-ROAD 01 SHEET 01	41901-02-663	A	SECTIONS SHEET 02
41901-02-201	B	COURTNEY DRIVE-ROAD 01 (Cont.) SHEET 02	41901-02-664	B	DETAILS SHEET 01
41901-02-202	A	ROAD 03	41901-02-665	B	DETAILS SHEET 02
41901-02-203	B	ROAD 04 & ROAD 07	DRAINAGE: CATCHMENT		
41901-02-204	A	ROAD 10 & ACCESS BASIN 01	41901-02-670	C	PLAN SHEET 01
ROADS: CROSS SECTIONS			41901-02-671	A	PLAN SHEET 02
41901-02-300	A	COURTNEY DRIVE-ROAD 01 SHEET 01	DRAINAGE: CALCULATION TABLES		
41901-02-301	B	COURTNEY DRIVE-ROAD 01 (Cont.) SHEET 02	41901-02-680	C	MINOR CALC TABLE SHEET 01
41901-02-302	C	COURTNEY DRIVE-ROAD 01 (Cont.) SHEET 03	41901-02-680A	B	MINOR CALC TABLE SHEET 02
41901-02-303	A	ROAD 03 SHEET 01	41901-02-681	C	MAJOR CALC TABLE SHEET 01
41901-02-304	A	ROAD 03 (Cont.) SHEET 02	WATER: WATER RETICULATION		
41901-02-305	A	ROAD 04	41901-02-700	C	PLAN SHEET 01
41901-02-306	B	ROAD 07 & ROAD 10	41901-02-701	B	PLAN SHEET 02
41901-02-307	A	ACCESS BASIN 01	41901-02-702	B	PLAN SHEET 03
ROADS: INTERSECTION GRADING			41901-02-710	A	DETAILS
41901-02-400	C	DETAILS			
ROADS: JOINTING DETAILS					
41901-02-410	B	DETAILS SHEET 01			
41901-02-411	C	DETAILS SHEET 02			

MORTONS
urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination



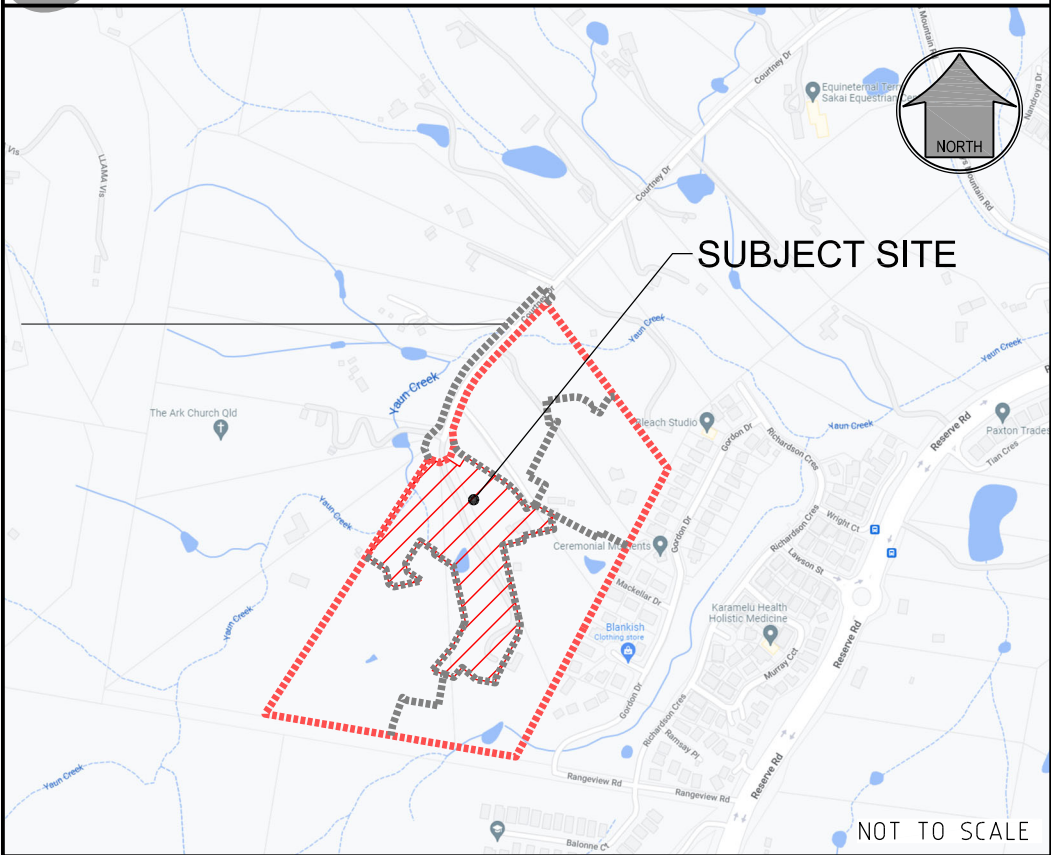
CLIENT



SUB-CONSULTANTS



LOCALITY PLAN



SUBJECT SITE

NOT TO SCALE

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
41901-02-000

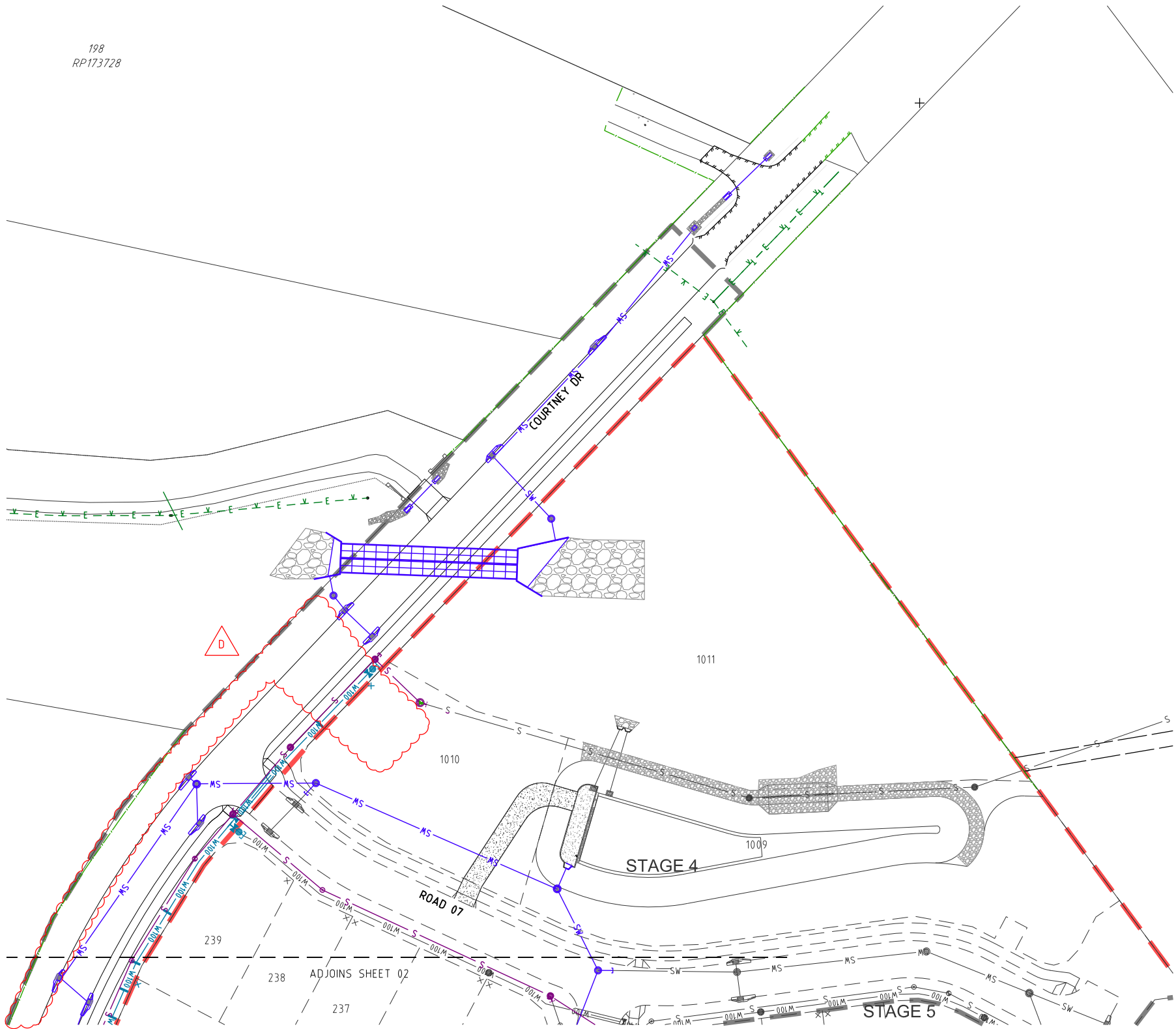
AMEND.
G

CONSTRUCTION SERVICES

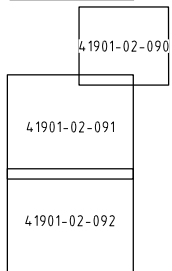
1. CONSTRUCTION OF
SEWER/ROOFWATER/STORMWATER/SERVICES
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE
OF TRENCH & TO PROTECT PIPE WORK & DIRECT
SURFACE MATERIAL AWAY FROM EXCAVATIONS.
TOPSOIL & GRASS SEED AREAS IN ALLOTMENTS
IMMEDIATELY AFTER COMPLETING THE SEWER &
ROOFWATER DRAINAGE CONSTRUCTION.
DEPRESS 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
W225	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
W225	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
W225	FUTURE WATER
W250	FUTURE WATER
W300	FUTURE WATER
---	FUTURE WATER CONDUIT
---	SITE BOUNDARY
---	STAGE BOUNDARY



SHEET LAYOUT



PROJECT NAME

**COURTNEY DR
UPPER COOMERA**

STAGE 02

RP DESCRIPTION

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

CLIENT

HB Land

NORTH

0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

D	27-11-24	PUMP STATION & RISING MAIN REMOVED	BL
C	13-06-24	STORMWATER AMENDED	RK
B	29-11-23	WATERMAIN LINETYPE AMENDED	BL
A	13-10-23	COUNCIL ISSUE	EP

REV DATE DESCRIPTION INT

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ASSOCIATED CONSULTANTS

BIOME
WATER AND ENVIRONMENTAL CONSULTING

Robin Russell
& ASSOCIATES PTY. LTD.

BENNETT · BENNETT

DRAWING TITLE

COMBINED SERVICES
PLAN
SHEET 01

MORTONS
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Project Coordination

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DESIGNED RB	DRAWN EP
APPROVED <i>A.K.M.</i>	DATE 13-10-23
DRAWING NUMBER	REV
41901-02-090	D

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

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

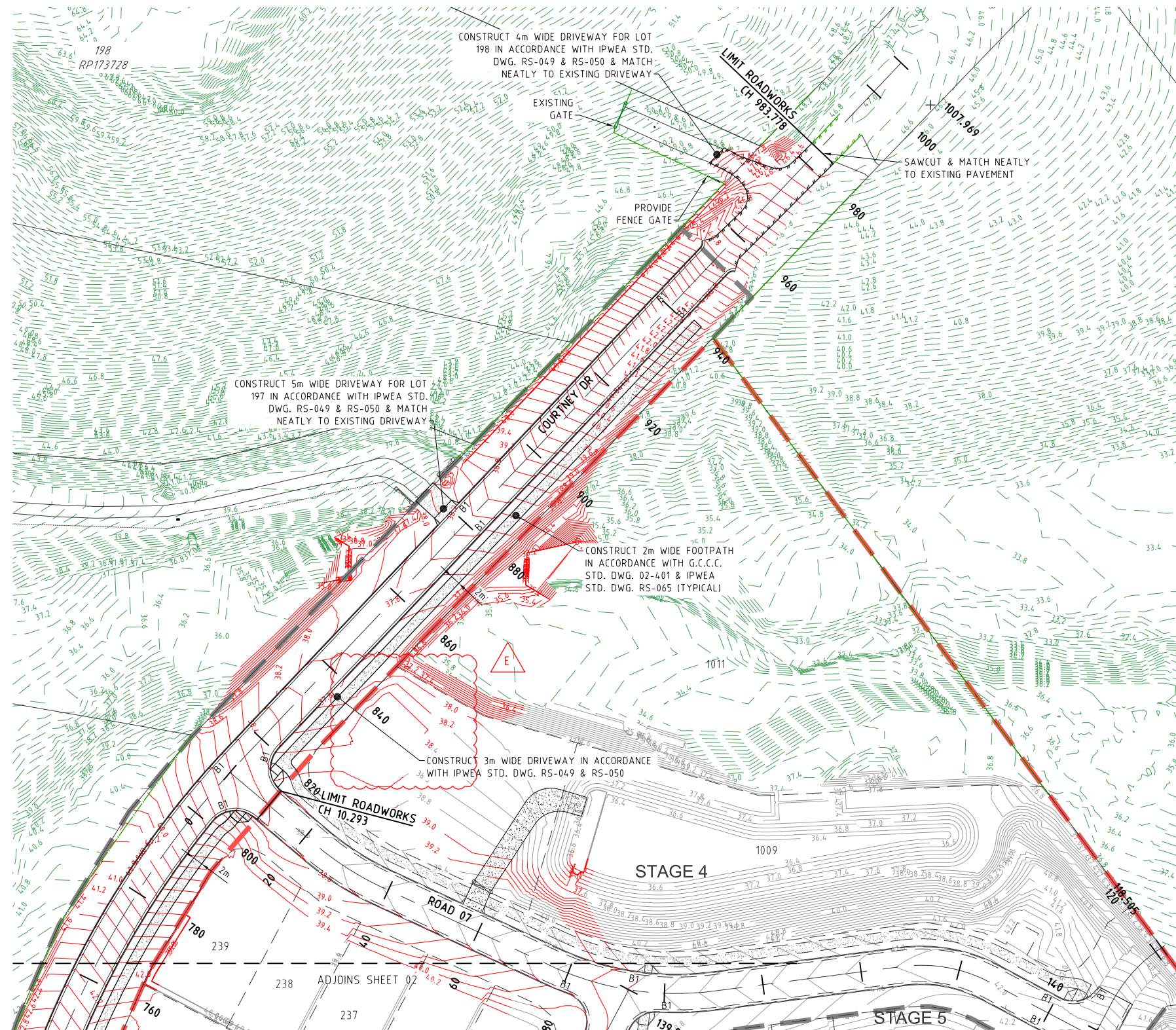
REFER TO DRG. 120
FOR KERB TYPES.

SHEET LAYOUT

41901-02-100

41901-02-101

41901-02-102



COURTNEY DR
UPPER COOMERA

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



0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

E	27-11-24	PUMP STATION REMOVED	BL
D	14-06-24	CONTOURS & DRIVEWAY AMENDED	RK
C	15-01-24	CONTOURS & LIMIT OF WORKS AMENDED	BL
B	29-11-23	FOOTPATH DIMENSIONS AMENDED	BL
A	13-10-23	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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ASSOCIATED CONSULTANTS


 BENNETT+BENNETT

D R A W I N G T I T L E

ROADWORKS
PLAN
SHEET 01



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DESIGNED	RB	DRAWN	EP
APPROVED <i>[Signature]</i>	RPEQ4706	DATE	13-10-23
DRAWING NUMBER			REV
41901-02-100			E

SEQ CODE SEWER NOTES

SEQ CODE NOTES COPIED DIRECTLY FROM DRAWING SEQ-SEW-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 1.8 m 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 5 m OF THE CREEK.

REHABILITATION

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

SAFETY

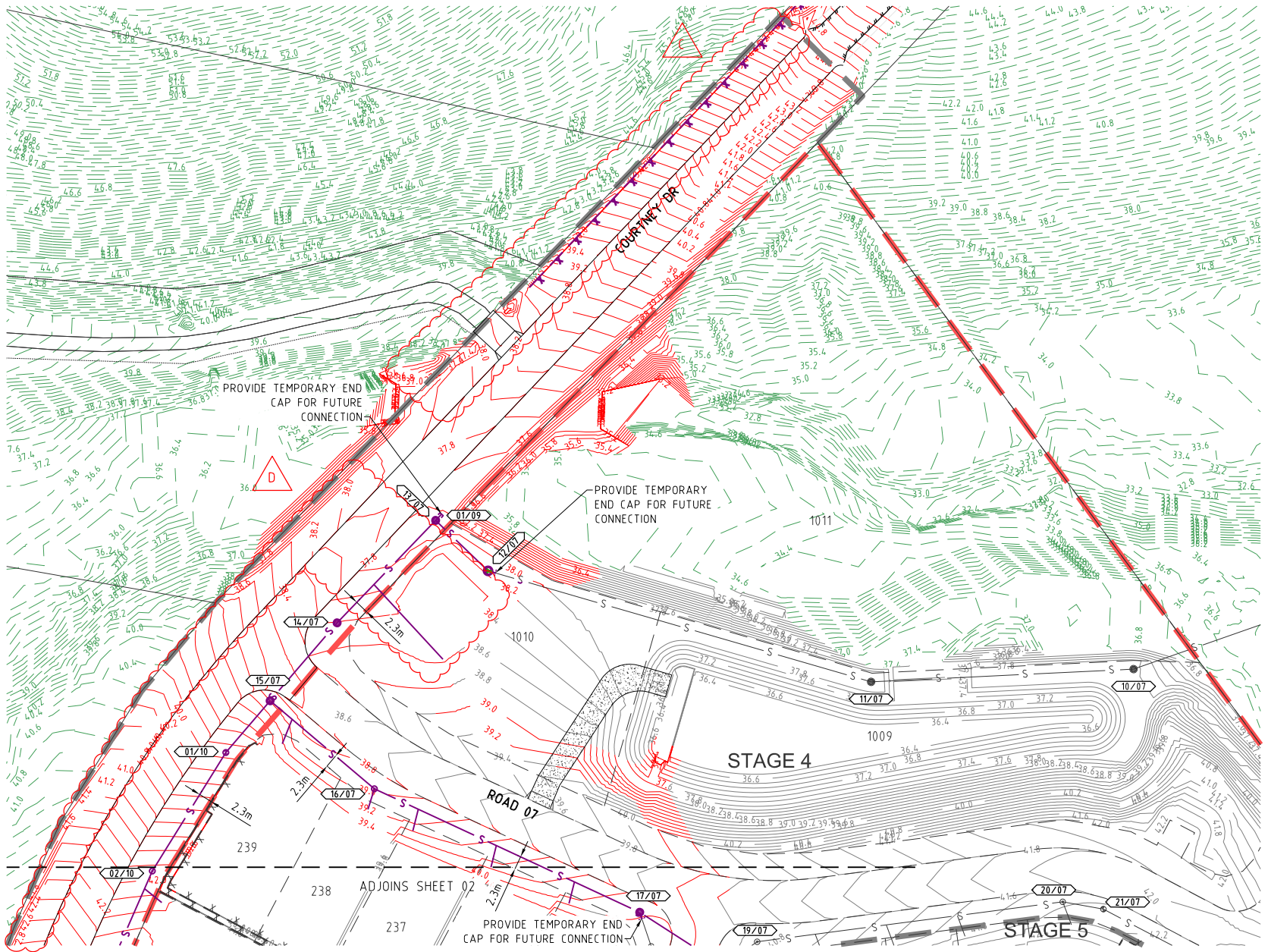
- A. THE DESIGN & CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

GENERAL

1. ALL WORK & MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS & STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS & WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY DEVELOPER'S APPROVED CONTRACTOR UNDER THE SUPERVISION OF SEQ'S AGENT AT THE DEVELOPER'S COST.
5. ALL PIPES & MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS & MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN100 PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300 mm & A MAXIMUM OF 750 mm. UNITYWATER REQUIRES MINIMUM EXTENSION OF 500 mm INTO PROPERTY.
9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300 mm (LOOSE) IN DEPTH & SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION & DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK & LEVELS TO AHD.
- ~~14. THE EXISTING DWELLING ON LOT 3, REFER SEQ SEW 1100, SERVED BY A SEPTIC SYSTEM, SHALL BE CONNECTED TO THE NEW SEWER BY A LICENSED PLUMBER IN ACCORDANCE WITH THE RELEVANT STATUTORY & COUNCIL REQUIREMENTS. THE SEPTIC SYSTEM, INCLUDING TRENCHES, SHALL BE REMOVED AT THE DEVELOPER'S COST. ALL FIXTURES SHALL BE UPGRADED IF REQUIRED BY PLUMBING CODE. STANDARD NOTE NOT APPLICABLE & THEREFORE DELETED.~~
15. EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY THE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.

PROJECT SPECIFIC SEWER NOTES

- a. ALL SEWER MAINS TO BE AS PER SEWER PIPE SPECIFICATIONS TABLE.
- b. NOTWITHSTANDING THE STANDARD SEQ NOTES ABOVE, ALL MATERIALS & WORKS MUST BE IN ACCORDANCE WITH THE SERVICE PROVIDER'S APPROVAL CONDITIONS & THE SEQ WS&S D&C CODE.
- c. THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR SEWER RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT.
- d. THE CONTRACTOR TO PROVIDE CALCAREOUS CONCRETE WHERE SPECIFIED IN THE SEQ CODE BY THE RELEVANT AUTHORITY.
- e. WATER & ELECTRICAL CROSSING LOCATIONS ARE INDICATIVE ONLY. REFER TO PLANS TO DETERMINE PRECISE CROSSING LOCATIONS. WHERE SERVICE INDICATES CLASH WITH SEWER, SEWER TO TAKE PRECEDENCE. SERVICE TO BE CONSTRUCTED OVER OR UNDER SEWER ACCORDING TO SUPERINTENDENT'S INSTRUCTION
- f. ALL BENDS TO BE LONG RADIUS BEND TO MEET MANUFACTURER'S MINIMUM RADIUS REQUIREMENTS U.N.O.
- g. CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
- h. PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 & A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m. UNLESS OTHERWISE STATED.
- i. CONTRACTOR TO PAY ALL FEES & CHARGES ASSOCIATED WITH CONNECTIONS.



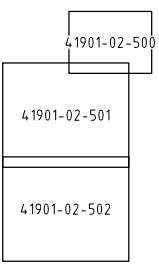
ALL ENVIRONMENT PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.



SEWER PIPE SPECIFICATIONS

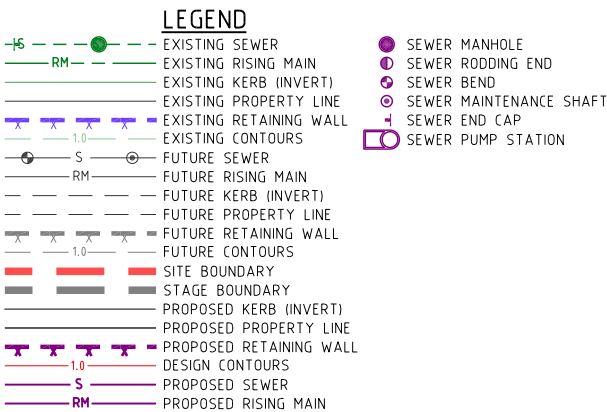
SEWER MAIN LOCATION	PIPE MATERIAL SPECIFICATION
GRAVITY VERGE	PVC-U SN8
GRAVITY ROAD CROSSING	PVC-U SN8
HOUSE CONNECTIONS	PVC-U SN10
RIISING MAIN TRENCHED	PE100 PN16 SDR11

SHEET LAYOUT



SERVICE PROVIDER AND CONSTRUCTOR LIVE SEWER WORKS SCHEDULE

No.	Description	Dia. Sewer	MH No.	MH/MS Type	Cover Type	Lot no	F.S.L	E.S.L	I.L	Depth to invert	Alteration to existing MH benching required (y/n)
2(A)	PLUG EXISTING STUB FROM MH 01/20 CIVIL CONTRACTOR TO LAY NEW LINE 20 AFTER TESTING AND INSPECTING, NOTIFY GOLD COAST WATER AND WASTE AND PROVIDE ALL NECESSARY DOCUMENTATION.	150	01/20	Stub from MH	B	-	62.106	62.106	60.304	1.803	N
2(B)	CONTRACTOR TO MAKE LIVE CONNECTIONS UNDER SUPERVISION OF GOLD COAST WATER AND WASTE. AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.										
3(A)	PLUG EXISTING STUB FROM MH 01/20 CIVIL CONTRACTOR TO LAY NEW LINE 21 AFTER TESTING AND INSPECTING, NOTIFY GOLD COAST WATER AND WASTE AND PROVIDE ALL NECESSARY DOCUMENTATION.	150	01/20	Stub from MH	B	-	62.106	62.106	60.384.3	1.723	N
3(B)	CONTRACTOR TO MAKE LIVE CONNECTIONS UNDER SUPERVISION OF GOLD COAST WATER AND WASTE. AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.										



PROJECT NAME

COURTNEY DR
UPPER COOMERA

STAGE 02

RP DESCRIPTION

LOT 188, 189, 190, 191 & 192 ON RP173728

COURTNEY DRIVE

LOCALITY OF UPPER COOMERA

LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

D	27-11-24	PUMP STATION & RISING MAIN REMOVED	BL
C	14-06-24	CONTOURS AMENDED	RK
B	29-11-23	NOTES ADDED & CONTOURS AMENDED	BL
A	13-10-23	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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ASSOCIATED CONSULTANTS



DRAWING TITLE

SEWER RETICULATION
PLAN
SHEET 01

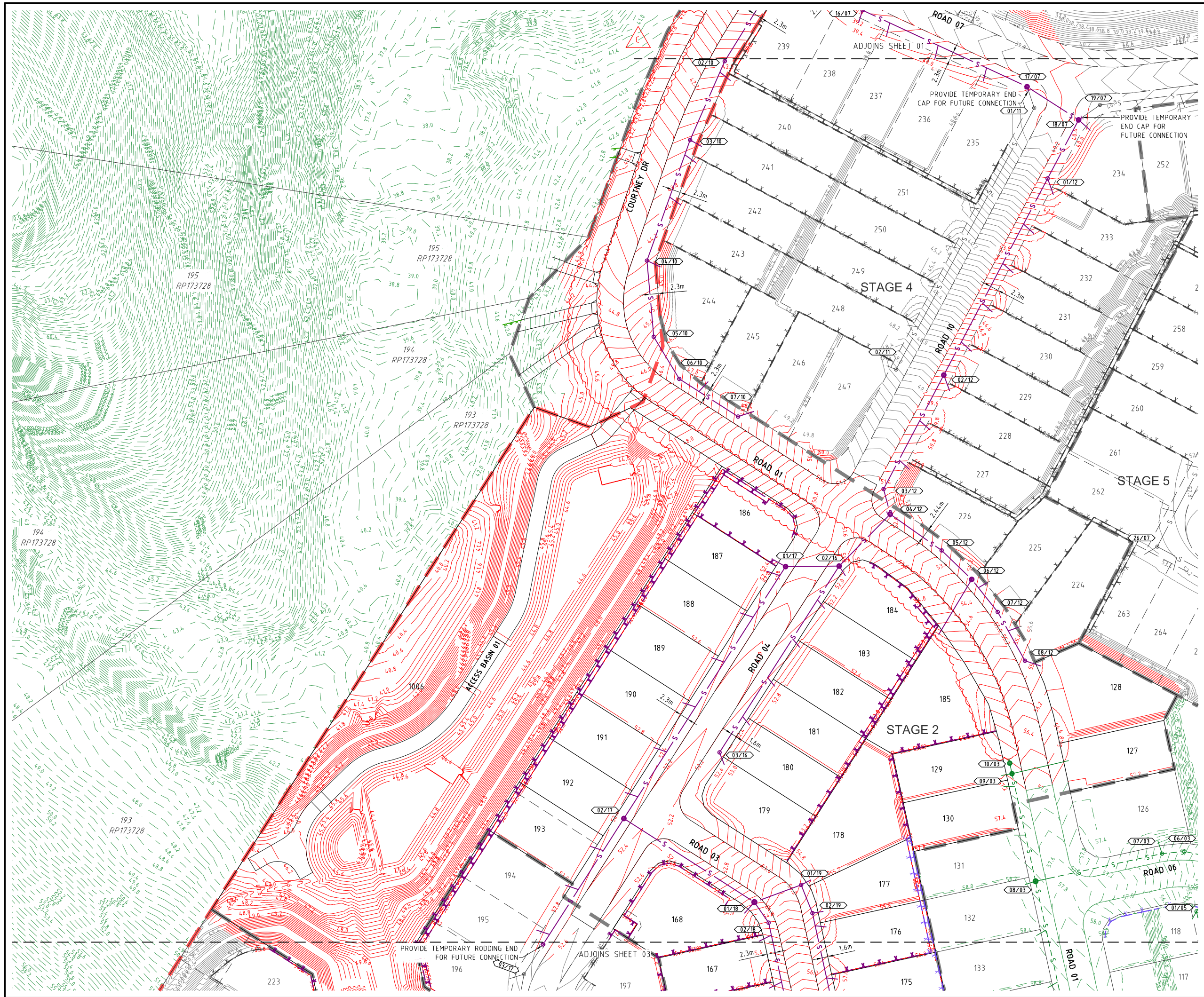


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DESIGNED RB	DRAWN EP
APPROVED <i>AK</i>	DATE 13-10-23
DRAWING NUMBER	REV
41901-02-500	D



PROJECT NAME

COURTNEY DR
UPPER COOMERA

STAGE 02

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

CLIENT

0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

C	27-11-24	SEWER RISING MAIN REMOVED	BL
B	29-11-23	NOTE ADDED	BL
A	13-10-23	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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ASSOCIATED CONSULTANTS

WATER AND ENVIRONMENTAL CONSULTING

DRAWING TITLE

SEWER RETICULATION
PLAN
SHEET 02

Urban & Regional Planning
Civil Engineering
Project Coordination

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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.

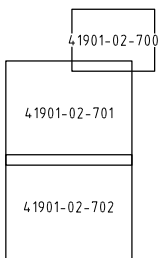
PROJECT SPECIFIC WATER NOTES

- a. ALL PROPERTY CONNECTION ROAD CROSSINGS TO BE SLEEVED WITH DN100 uPVC 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

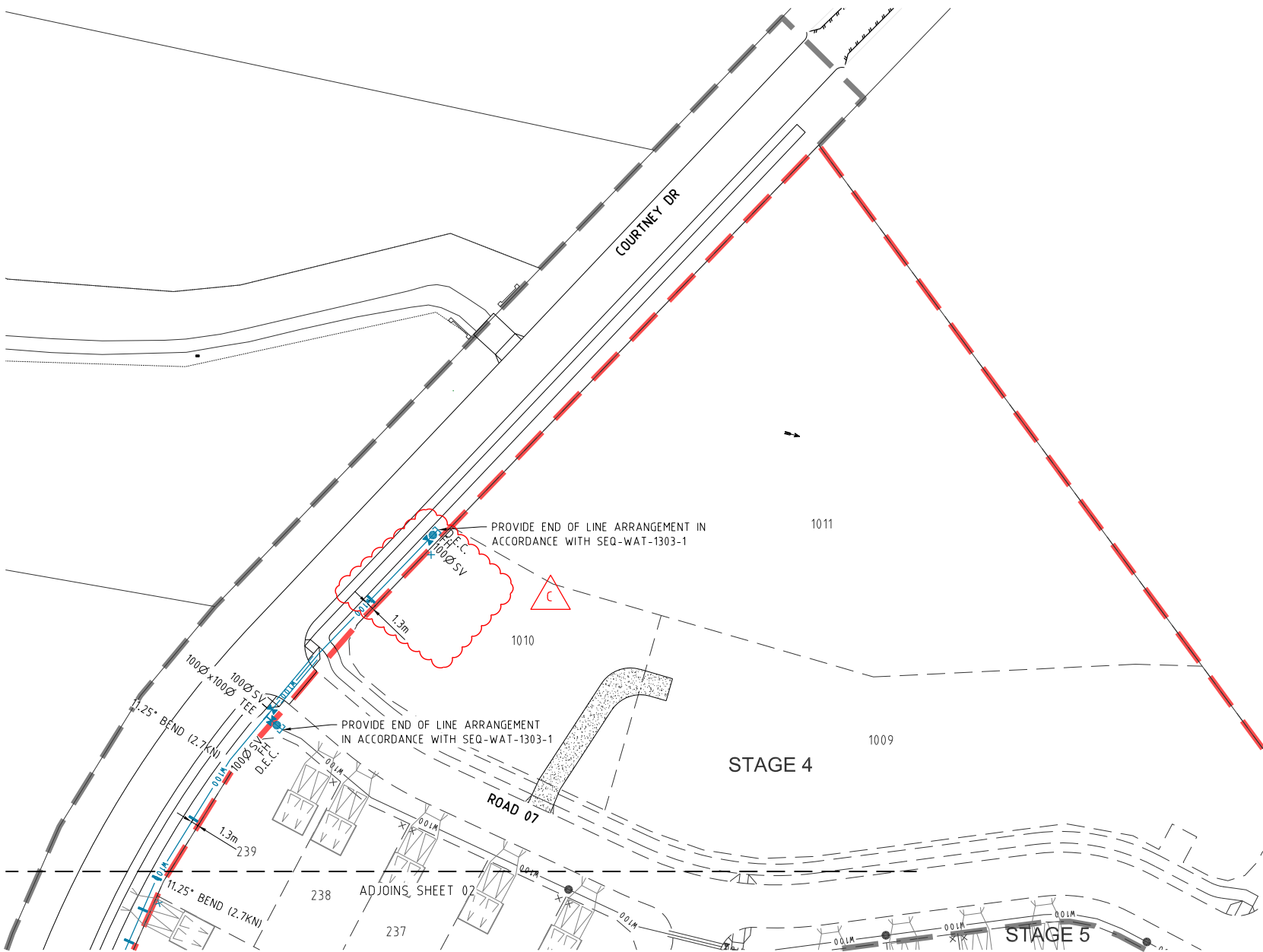
	EXISTING 100Ø WATER MAIN		PROPOSED FOOTPATH
	EXISTING 150Ø WATER MAIN		SITE BOUNDARY
	EXISTING 200Ø WATER MAIN		STAGE BOUNDARY
	EXISTING 225Ø WATER MAIN		PROPOSED 100Ø WATER MAIN
	EXISTING 250Ø WATER MAIN		PROPOSED 150Ø WATER MAIN
	EXISTING 300Ø WATER MAIN		PROPOSED 200Ø WATER MAIN
	EXISTING FOOTPATH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

SHEET LAYOUT



WATER PIPE SPECIFICATIONS

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



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