

236 MUSGRAVE ROAD, COOPERS PLAINS COMPLIANCE DOCUMENTATION

LOT 2 on SP308887
for
GATEWAY PROPERTY SERVICES PTY LTD

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client
GATEWAY PROPERTY SERVICES PTY LTD



Engineering design and drafting services
20A, 25 Samuel Street, Camp Hill, QLD, 4152
07 3062 9835 www.wcdesigns.net.au
ABN 79 619 955 145

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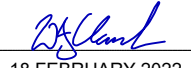
Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
DRAWING INDEX AND LOCALITY
PLAN**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed 
Date **18 FEBRUARY 2022**

Drawing No.	Rev.
WCD-21866-001	A

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WCD-21866-	
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LOCALITY PLAN
Not to Scale

GENERAL NOTES

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DOCUMENTS:
 - OTHER PROVIDED ENGINEERING DRAWINGS
 - TECHNICAL SPECIFICATIONS
 - SUPPLEMENTARY SPECIFICATIONS
 - WRITTEN INSTRUCTIONS
- ALL CONSTRUCTION MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN & THE REQUIREMENTS OF BRISBANE CITY COUNCIL (B.C.C.) STANDARDS & SPECIFICATIONS.
- ALL LOCATIONS, ORIENTATION & LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK. DISCREPANCIES SHALL BE REFERRED TO THE SITE SUPERINTENDENT.
- THE CONTRACTOR SHALL OBTAIN THE LOCATION OF ALL SERVICES & PROTECT THESE SERVICES PRIOR TO WORKING IN THE VICINITY. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- WORKS TO ANY SERVICES SHOULD BE DONE IN CONSULTATION WITH THE APPROPRIATE SERVICE PROVIDER AND AUTHORITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN & PROVISION OF ANY TEMPORARY BRACING, PROPPING ETC. TO UNDERGROUND SERVICES DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE POSITION & NO PART SHALL BE OVERSTRESSED.
- DO NOT OBTAIN DIMENSIONS FROM SCALING OF DRAWINGS.
- NATURAL SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY. ACTUAL PHYSICAL LEVELS SHALL BE OBTAINED FROM A REGISTERED SURVEYOR.
- ALL RELEVANT PERMITS & APPROVALS REQUIRED FOR CONSTRUCTION OF PERMANENT OR TEMPORARY WORKS SHALL BE OBTAINED BY THE CONTRACTOR.
- B.C.C. STANDARD DETAILS ARE TO BE ADOPTED UNLESS STATED OTHERWISE AND APPROVED BY THE SUPERINTENDENT.

BULK EARTHWORKS

- ALL EARTHWORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT B.C.C. STANDARD SPECIFICATIONS & AS3798, UNDER LEVEL 1 SUPERVISION.
- ALL NEW WORKS TO MATCH NEATLY WITH EXISTING WORKS.
- REFER TO SITE CROSS SECTIONS FOR BATTER GRADES. WHERE GRADES ARE NOT SPECIFIED:-
FILL - 1:6
CUT - 1:4
- UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT, ALL FILL SHALL BE PLACED AT BETWEEN +2% & -2% OF OPTIMUM MOISTURE CONTENT.
- AN RPEQ CERTIFIED ENGINEER SHALL INSPECT THE SUBGRADE DURING COMPACTION & ANY WEAK SPOTS SHALL BE REMOVED & REPLACED WITH MINIMUM CBR15 MATERIAL.
- ALL OF THE SITE SHALL BE KEPT FREE DRAINING DURING ALL PHASES OF THE PROJECT.
- ALL DISTURBED AREAS SHALL BE TOPSOILED (MINIMUM THICKNESS 100mm) & BE GRASS SEEDED U.N.O.
- NOTWITHSTANDING THE LIMITS & FILLING SHOWN ON THE CROSS SECTIONS THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION & SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.

DRAINAGE

- ALL DRAINAGE STRUCTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS (BY ORDER):
 - B.C.C. DESIGN GUIDELINES, STANDARD DRAWINGS & SPECIFICATIONS;
 - MAIN ROADS STANDARD DRAWINGS & SPECIFICATIONS; AND
 - ANY MANUFACTURERS STANDARD DRAWINGS & SPECIFICATIONS.
- ALL CONSTRUCTION MATERIALS & WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN & THE REQUIREMENTS OF THE STATUTORY AUTHORITIES WHERE APPLICABLE.
- STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT OF CONSTRUCTION LOADS & PROVISION OF ANY TEMPORARY BRACING, PROPPING, ETC. REQUIRED DURING CONSTRUCTION. STRUCTURES SHALL BE MAINTAINED IN A STABLE CONDITION & NO PART SHALL BE OVERSTRESSED.
- PRECAST REINFORCED CONCRETE PIPES ARE TO BE MANUFACTURED IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARD AS 4058 & AS 1992.
- ALL CONCRETE STORMWATER PIPES SHALL BE CLASS '2' RCP. UNLESS NOTED OTHERWISE.
- ALL uPVC STORMWATER PIPES SHALL BE SN8 UNLESS NOTED OTHERWISE.
- ALL PIPES UP TO & INCLUDING Ø600 ARE TO BE RUBBER RING JOINTED. ALL PIPES ABOVE Ø600 ARE TO BE FLUSH JOINTED UNLESS NOTED OTHERWISE.
- HEADWALL END STRUCTURES TO BE TYPE A, CAST IN SITU CONCRETE WITH CONCRETE APRONS (INCLUDING CUT OFF WALLS) UNLESS NOTED OTHERWISE. REFER TO THE CURRENT B.C.C. & DMR STANDARDS FOR DETAILS.
- PRECAST END STRUCTURES MAY BE USED ON CULVERTS LESS THAN OR EQUAL TO 15° SKEW, SUBJECT TO THE APPROVAL OF THE SUPERINTENDENT. PRECAST END STRUCTURES SHALL BE CONSTRUCTED WITH A REINFORCED CONCRETE CUT OFF WALL AS DETAILED FOR TYPE 3 APRONS REFER DMR STANDARDS.
- EXISTING STORMWATER DRAINAGE PIPES & MANHOLES WITHIN THE LIMIT OF WORK SHALL BE PROTECTED, REMOVED OR MODIFIED AS SPECIFIED.
- WHERE A CONNECTION IS MADE TO AN EXISTING DRAINAGE PIPE OR PIT, THEN THE LEVEL OF THAT ELEMENT MUST BE SURVEYED PRIOR TO CONSTRUCTION. THE SURVEYED LEVELS SHALL BE PROVIDED TO THE SITE SUPERINTENDENT TO CONFIRM THE DESIGNED CONNECTION & LEVELS PRIOR TO CONSTRUCTION.
- BACKFILL & BEDDING TO PIPES TO BE IN ACCORDANCE WITH THE CURRENT B.C.C. STANDARD DRAWINGS & SPECIFICATIONS.
- UNSUITABLE FOUNDING MATERIAL FOR PIPES & STRUCTURES SHALL BE REMOVED OR IMPROVED IN ACCORDANCE WITH THE CURRENT B.C.C. & MAIN ROADS SPECIFICATIONS.
- ALL TRENCH BACK FILL MATERIAL UNDER THE PAVEMENT SHALL BE CBR 15 OR APPROVED EQUIVALENT.
- STEEL GRATES & FRAMES ARE TO BE FABRICATED FROM MILD STEEL & HOT DIP GALVANISED. ALL GRATES ARE TO BE CLASS D (UNLESS NOTED OTHERWISE) & BICYCLE SAFE IN ACCORDANCE WITH THE CURRENT AUSTRALIAN STANDARD AS 3996 UNLESS NOTED OTHERWISE.
- GRATE SUPPORT TO BE CONSTRUCTED LEVEL TO ENSURE THAT THE GRATE DOES NOT ROCK AFTER INSTALLATION.
- ALL ROOFWATER PIPES TO BE uPVC CLASS SN8 (MIN.) UNLESS NOTED OTHERWISE AND APPROVED BY THE SUPERINTENDENT.

PROPERTY DESCRIPTION

LOT 2 on SP308887

COUNCIL REF: A005771300

A	Original Issue (For App.)	JP	18/02/22
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Associated Consultant

URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client

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Project

**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title

**OPERATIONAL WORKS
STANDARD NOTES**

Council Reference

A005771300

Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

Approved

Name W.Clark RPEQ No. 16580

Signed 
Date 18 FEBRUARY 2022

Drawing No.

WCD-21866-002

Rev.

A

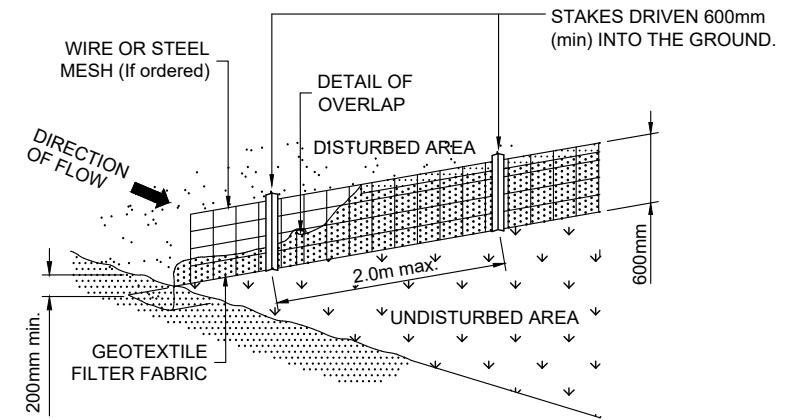
GENERAL NOTES

1. SEDIMENT AND EROSION CONTROL MEASURES AS SHOWN SHALL INITIALLY BE IN PLACE, INSPECTED AND APPROVED BY THE APPROPRIATELY QUALIFIED REPRESENTATIVES PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CLEARING AND/OR EARTHWORKS OPERATIONS.
2. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES DURING ALL PHASES OF THE CONSTRUCTION PROCESS IF ORDERED BY COUNCIL'S INSPECTOR AND/OR CLIENTS REPRESENTATIVE AS A RESULT OF UNSATISFACTORY PERFORMANCE OF THE CONTROL MEASURES.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH COUNCIL'S SUBDIVISION AND DEVELOPMENT GUIDELINES THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIODS.
4. CONSTRUCTION IS TO BE MANAGED SUCH THAT AREAS NOT REQUIRED FOR CONSTRUCTION PURPOSES ARE TO BE LEFT UNDISTURBED WHERE POSSIBLE.
5. ALL DISTURBED AREAS SHALL BE TOPSOILED (100mm MINIMUM DEPTH) AND GRASS SEEDING WITHIN SEVEN (7) DAYS OF FINAL TRIMMING.
6. ALL DISTURBED AREAS WITHIN THE FOOTPATH AND EXTENDING FOR A WIDTH OF 600mm INSIDE THE PROPERTY BOUNDARY SHALL BE TOPSOILED AND TURFED.
7. ALL TRENCH EXCAVATION WORKS ONCE COMPLETED SHALL BE EITHER TOPSOILED AND TURFED OR MULCHED AND ALLOWED TO NATURALLY REVEGETATE.
8. WHERE TRENCHES ARE LOCATED WITHIN ONE METRE OF THE DOWNSTREAM PROPERTY BOUNDARY, PROVISION SHALL BE MADE TO/FOR:
 - 8.1. MAXIMISE THE EXTENT OF NATURAL GROUND COVER VEGETATION RETAINED;
 - 8.2. WHERE IT IS NOT PRACTICAL TO MAINTAIN NATURAL GROUND COVER VEGETATION, THE CONTRACTOR IS TO PROVIDE A SILT FENCE ON/ADJACENT TO THE SIDE PROPERTY BOUNDARY DURING CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF SILT FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIOD, THAT HAS BLOWN, WASHED OR TRACKED FROM THE SITE ONTO COUNCIL ROADS OR INTO COUNCIL DRAINAGE SYSTEMS, WATERCOURSES AND PRIVATE PROPERTY.
10. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE CONTROL OF DUST EMANATING FROM THE SITE AT ALL TIMES INCLUDING WEEKENDS AND PUBLIC HOLIDAYS FOR THE DURATION OF THE CONSTRUCTION AND MAINTENANCE PERIODS.
11. ALL RUBBISH, WASTE MATERIALS, OILS AND FUELS ARE TO BE CONTAINED APPROPRIATELY. SPILL KITS ARE TO BE AVAILABLE ON SITE FOR IMMEDIATE USE.
12. WHERE TOPSOIL STOCKPILES ARE TO REMAIN IN PLACE FOR A PERIOD OF MORE THAN FOURTEEN (14) DAYS, THE STOCKPILE SHALL BE GRASS SEEDING OR COVERED WITH APPROPRIATE FILTER FABRIC PLUS INSTALLATION OF DIVERSION DRAINS OR BUNDS ON THE UPHILL SIDE AND SEDIMENT FENCES ON THE DOWNHILL SIDE OF ALL STOCKPILES.
13. ALL RELEASES OF STORMWATER CAPTURED IN A SEDIMENT BASIN, UNLESS OTHERWISE NOTED IN THIS STANDARD, MUST NOT EXCEED THE FOLLOWING LIMITS:
 - 13.1. 50 MILLIGRAMS PER LITRE (mg/L) OF TOTAL SUSPENDED SOLIDS (TSS) AS A MAXIMUM CONCENTRATION;
 - 13.2. TURBIDITY (NTU) VALUE LESS THAN 10% ABOVE BACKGROUND;
 - 13.3. pH VALUE MUST BE IN THE RANGE OF 6.5 - 8.5 EXCEPT WHERE, AND TO THE EXTENT THAT, THE NATURAL RECEIVING WATERS LIE OUTSIDE THIS RANGE.

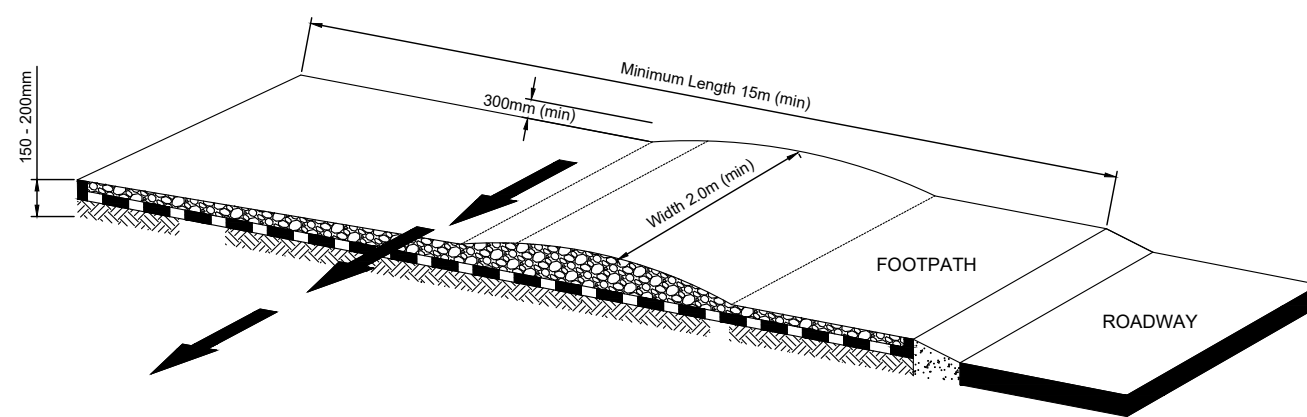
SILT MANAGEMENT PROGRAM

PHASE	DESCRIPTION
ALL WORKS	SILT FENCES TO BE ERECTED ALONG TOE OF FILL BATTERS OR AS DIRECTED BY SUPERINTENDENT.
CLEARING	SILT FENCES TO BE ERECTED ALONG ALL EXTERNAL BOUNDARIES.
EARTHWORKS	SILT FENCES TO BE ERECTED ALONG PROPERTY BOUNDARIES AS INDICATED OR REQUIRED. BLADE CUT DRAINS ARE TO BE USED TO DIVERT RUNOFF ACROSS THE CONTOURS OF THE LAND.
SEWER / WATER STORMWATER / SERVICES	EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH IN ORDER TO PROTECT PIPE WORK & DIRECT SURFACE FLOW AWAY FROM EXCAVATIONS. TOPSOIL AND GRASS SEED AREAS IN ALLOTMENTS IMMEDIATELY AFTER COMPLETION OF SEWER AND ROOFWATER DRAINAGE CONSTRUCTION.
SPOIL AREA	SILT FENCES TO BE ERECTED 1.5m FROM TOE OF BATTER ON DOWNHILL SIDE AFTER SPOIL AREA IS IDENTIFIED.
ROADWORKS	MEASURES ARE TO BE TAKEN TO PREVENT SILT INGRESS TO STORMWATER SYSTEM.
MAINTENANCE PERIOD	EROSION CONTROL MEASURES ARE TO BE INSPECTED AFTER MAJOR RAINFALL EVENTS (> 25mm). ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTIONS TAKEN TO AVOID A RE-OCCURRENCE OF THE FAILURE.

DRAINAGE AREA 0.6ha. MAX. SLOPE GRADIENT 1 : 2 MAX. SLOPE LENGTH 60m MAX.



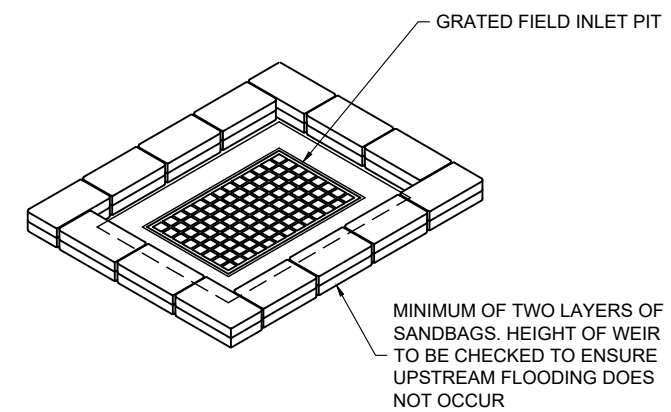
GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



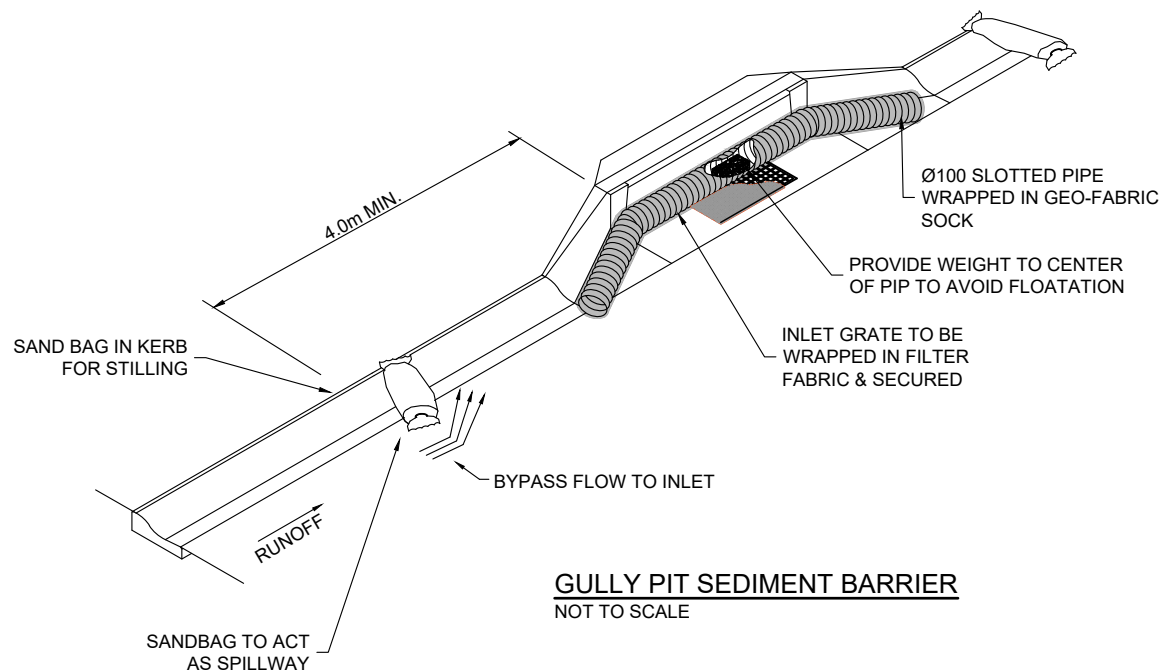
ROCK ENTRY/EXIT PAD FOR BUILDING SITES IECA AUSTRALASIA ROCK PADS FOR BUILDING SITES
NOT TO SCALE

ROCK ENTRY/EXIT PAD

1. INSPECT ALL SITE ENTRY AND EXIT POINTS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS
2. IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
3. IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY
4. WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ROCK PAD IS REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.
5. ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES (E.G FLOW CONTROL BERM) ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
6. DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.



FIELD INLET SAND BAG BARRIER
NOT TO SCALE



GULLY PIT SEDIMENT BARRIER
NOT TO SCALE

Rev	Description	Drawn	Date
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Project
236 MUSGRAVE ROAD COOPERS PLAINS QLD 4108

Drawing Title
OPERATIONAL WORKS EROSION AND SEDIMENT CONTROL STANDARD NOTES AND TYPICAL DETAILS

Council Reference
A005771300

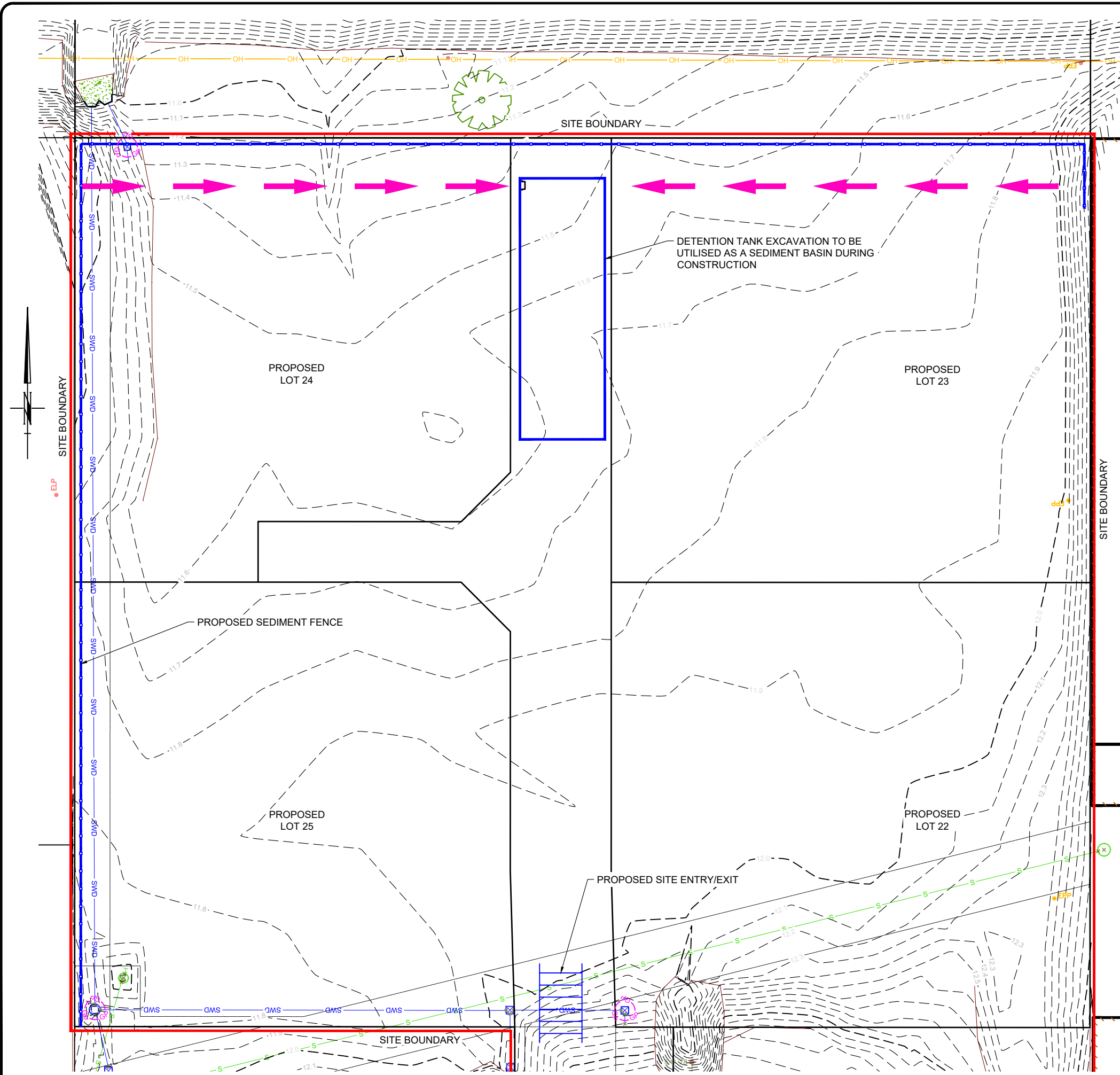
Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

Approved
Name **W.Clark** RPEQ No. **16580**

Signed
Date **18 FEBRUARY 2022**

Drawing No. **WCD-21866-003** Rev. **A**

PROPERTY DESCRIPTION
LOT 2 on SP308887
COUNCIL REF: A005771300



PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:200
SCALE 1 : 200
(BEFORE REDUCTION)

CONCEPT ONLY
IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE SEDIMENT & EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION TO THE SATISFACTION OF BOTH THE SUPERINTENDENT & COUNCIL.

SEDIMENT CONTROL NOTES

- INSTALL, MONITOR AND AMEND WHERE NECESSARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLANS DURING ALL PHASES OF THE DEVELOPMENT TO ENSURE ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT ENVIRONMENTAL HARM.
- PRIOR TO THE CONTROLLED DISCHARGE OF ANY WATER FROM THE SITE DURING CONSTRUCTION, THE FOLLOWING WATER QUALITY OBJECTIVES MUST BE ACHIEVED:
 - TOTAL SUSPENDED SOLIDS (MAX 50mg/L, TSS)
 - TURBIDITY (Measured in NTUs maximum of 60 NTU); AND
 - WATER pH BETWEEN 6.5 AND 8.5 UNLESS OTHERWISE REQUIRED BY COUNCIL.
- ALL SITE MONITORING DATA INCLUDING RAINFALL RECORDS, DATES OF WATER QUALITY TESTING, TESTING RESULTS AND RECORDS OF CONTROLLED WATER RELEASES FROM THE SITE, MUST BE KEPT IN AN ON SITE REGISTER. THE REGISTER IS TO BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON SITE FOR INSPECTION BY COUNCIL OFFICERS ON REQUEST.

LEGEND

- PROPOSED SILT FENCE
- PROPOSED VEHICLE ENTRY/EXIT
- SITE BOUNDARY
- TEMPORARY CUT OFF DRAINS
- TEMPORARY ACCESS CULVERT (150mm MIN. DIA.)
- GULLY PIT INLET PROTECTION

COUNCIL REF: A005771300

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
EROSION AND SEDIMENT
CONTROL LAYOUT PLAN
DURING DEVELOPMENT**

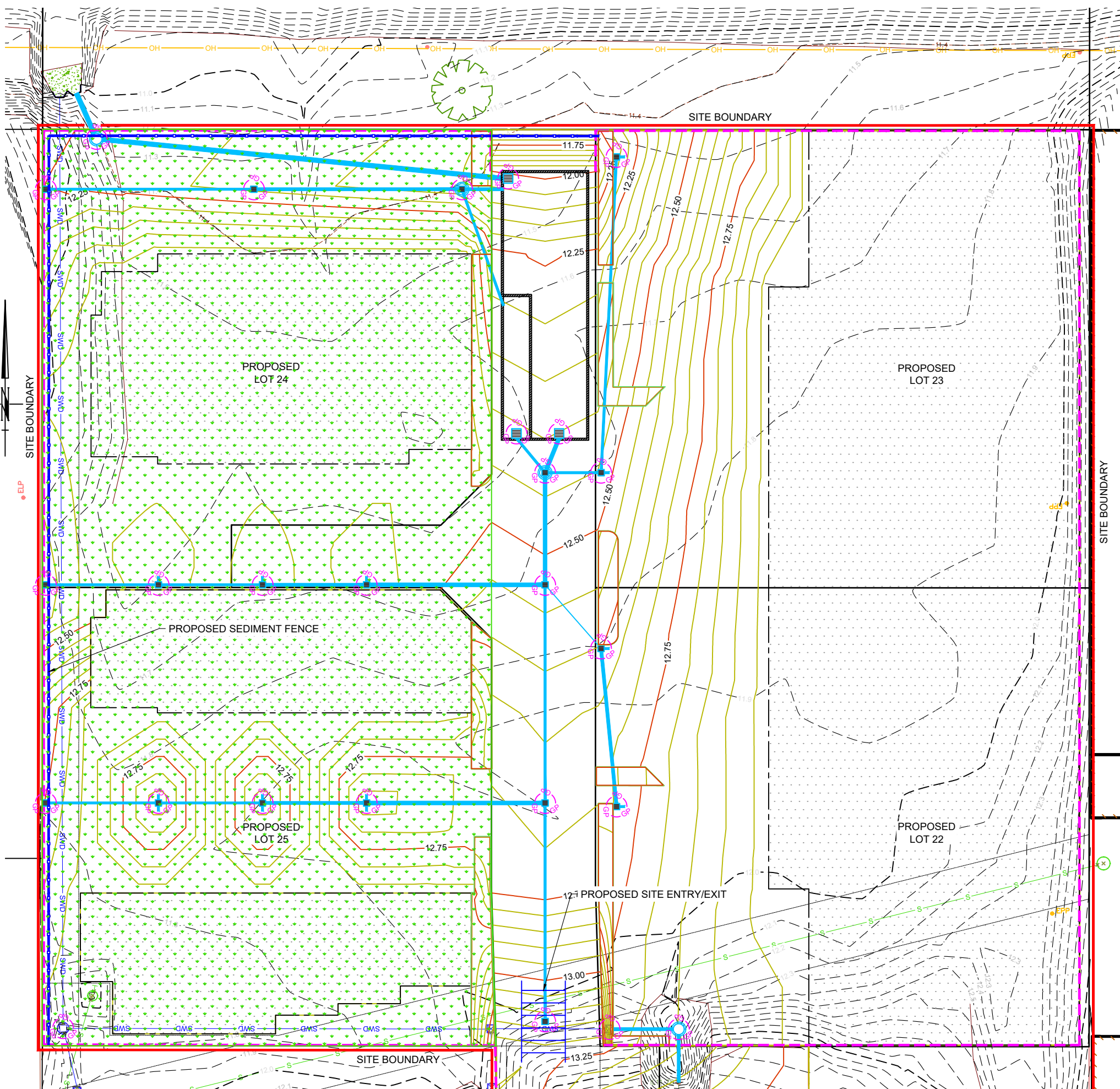
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Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-004** Rev. **A**



PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:200
SCALE 1 : 200
(BEFORE REDUCTION)

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IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ADEQUATE SEDIMENT & EROSION CONTROL DURING ALL PHASES OF CONSTRUCTION TO THE SATISFACTION OF BOTH THE SUPERINTENDENT & COUNCIL.

SEDIMENT CONTROL NOTES

1. INSTALL, MONITOR AND AMEND WHERE NECESSARY EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED PLANS DURING ALL PHASES OF THE DEVELOPMENT TO ENSURE ALL REASONABLE AND PRACTICABLE MEASURES ARE TAKEN TO PREVENT ENVIRONMENTAL HARM.
2. PRIOR TO THE CONTROLLED DISCHARGE OF ANY WATER FROM THE SITE DURING CONSTRUCTION, THE FOLLOWING WATER QUALITY OBJECTIVES MUST BE ACHIEVED:
 - 2.1. TOTAL SUSPENDED SOLIDS (MAX 50mg/L, TSS)
 - 2.2. TURBIDITY (Measured in NTUs maximum of 60 NTU); AND
 - 2.3. WATER pH BETWEEN 6.5 AND 8.5 UNLESS OTHERWISE REQUIRED BY COUNCIL.
3. ALL SITE MONITORING DATA INCLUDING RAINFALL RECORDS, DATES OF WATER QUALITY TESTING, TESTING RESULTS AND RECORDS OF CONTROLLED WATER RELEASES FROM THE SITE, MUST BE KEPT IN AN ON SITE REGISTER. THE REGISTER IS TO BE MAINTAINED UP TO DATE FOR THE DURATION OF THE APPROVED WORKS AND BE AVAILABLE ON SITE FOR INSPECTION BY COUNCIL OFFICERS ON REQUEST.

LEGEND

- AREA TO BE TURFED/GRASS SEEDED
- PROPOSED SILT FENCE
- PROPOSED VEHICLE ENTRY/EXIT
- SITE BOUNDARY
- TEMPORARY CUT OFF DRAINS
- TEMPORARY ACCESS CULVERT (150mm MIN. DIA.)
- GULLY PIT INLET PROTECTION

COUNCIL REF: A005771300

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COOPERS PLAINS QLD
4108

OPERATIONAL WORKS
EROSION AND SEDIMENT
CONTROL LAYOUT PLAN
POST DEVELOPMENT

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-005** Rev. **A**

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

Associated Consultant

URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client

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Engineering design and drafting services
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Project

**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title

**OPERATIONAL WORKS
SEDIMENT BASIN DETAILS**

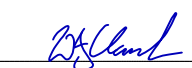
Council Reference

A005771300

Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

Approved

Name W.Clark RPEQ No. 16580

Signed 
Date 18 FEBRUARY 2022

Drawing No.

WCD-21866-006

Rev.

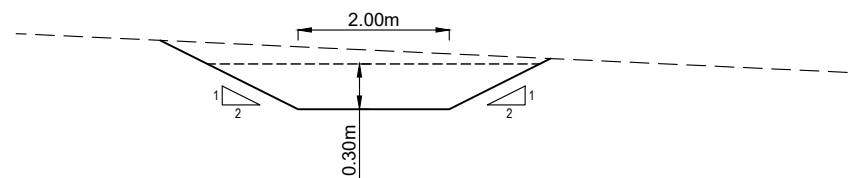
A

BASIN DETAILS NOTES

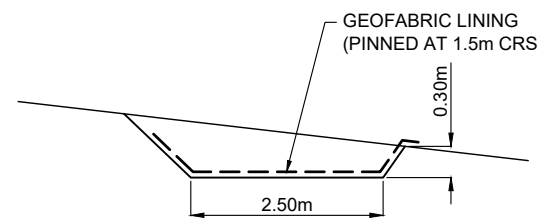
- TYPE D BASINS ASSUMED THROUGHOUT
- SETTLING ZONE VOLUME
 $V_s = 10 \times R(\gamma\%, 5 \text{ day}) \times C_v \times A$
 Where V_s = volume of settling zone (m^3)
 $R(\gamma\%, 5 \text{ day})$ = $\gamma\%$, 5 day rainfall depth (mm)
 Refer Table B28 & B29
 $\gamma\%$ = time the Sediment Basin is in place
 C_v = Volumetric runoff coefficient (Refer Table B31)
 A = Effective catchment area drainage to Basin (ha)

Refer IECA (Australasia) - Best Practice Erosion and Sediment Control - Appendix B - June 2018

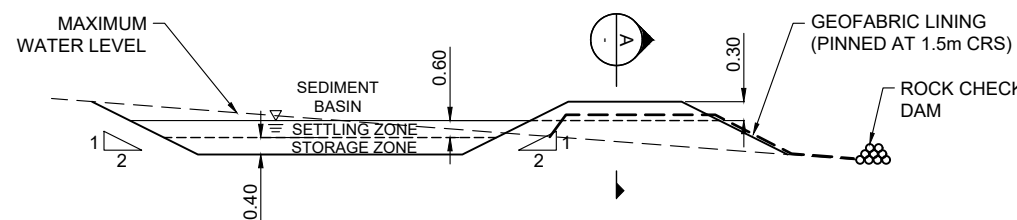
BASIN DETAILS							
BASIN	CATCHMENT AREA (ha)	$\gamma\%$	$R(\gamma\%, 5 \text{ day})$	C_v	SETTLING VOLUME V_s (m^3)	SETTLING DEPTH (m)	BASE AREA OF SETTLING ZONE (m^2)
1	0.9280	80.00%	33.90	0.58	182.46	0.92	200.00



TYPICAL CUT OFF DRAIN DETAIL
NOT TO SCALE



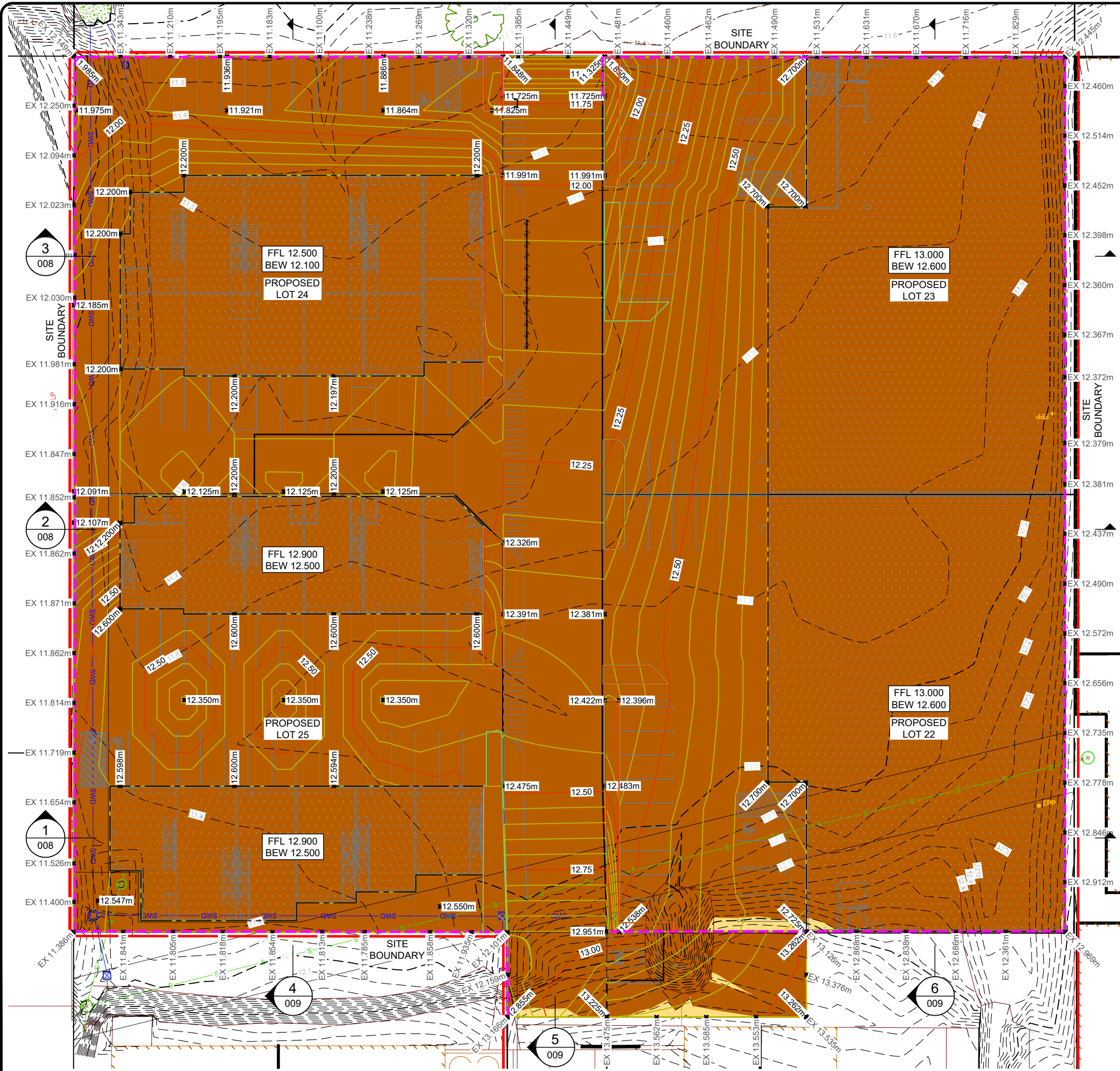
**SECTION A-A
OVERFLOW WEIR**



TYPICAL SEDIMENT BASIN DETAILS
NOT TO SCALE

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300



BULK EARTHWORKS CONSTRUCTION STAGING INCLUDING PILING AND ANCHORING DETAILS (if required) TO BE STRICTLY IN ACCORDANCE WITH THE STRUCTURAL ENGINEERS DRAWINGS AND DETAILS

EARTHWORKS SETOUT TO BE DERIVED FROM STRUCTURAL DETAILS AND ARCHITECTURAL PLANS

REFER WCD-21866-002 FOR BULK EARTHWORKS NOTES

- RETAINING / BATTER NOTES**
1. ALL RETAINING WALLS (INCLUDING DRAINAGE) MUST BE CONTAINED WHOLLY WITHIN THE PROPERTY BOUNDARY OF THE SITE.
 2. ALL BATTERS BOTH TEMPORARY AND PERMANENT ARE TO BE NO STEEPER THAN 1in4 AND ARE TO BE CERTIFIED BY AN APPROPRIATELY QUALIFIED GEOTECHNICAL ENGINEER.
 3. ALL BATTERS ARE TO BE VERIFIED BY AN APPROPRIATELY QUALIFIED GEOTECHNICAL ENGINEER TO ENSURE NO ADVERSE EFFECTS TO THE ADJOINING PROPERTIES.
 4. EARTH RETAINING STRUCTURES (OTHER THAN BASEMENT EXCAVATIONS) THAT RETAIN FILL GREATER THAN 1.0m IN HEIGHT ARE TO BE VERTICALLY AND HORIZONTALLY TIERED BY A RATIO OF 1:1.

- LEGEND**
- EARTHWORKS - CUT
 - EARTHWORKS - FILL
 - SITE BOUNDARY
 - DESIGN SURFACE CONTOURS (10.5)
 - NATURAL SURFACE CONTOURS (10.5)

300mm TOPSOIL STRIP VOLUME = 5700cum (Solid Measure)

EARTHWORKS CUT VOLUME = 2cum (Solid Measure)

EARTHWORKS FILL VOLUME = 7945cum (Solid Measure)

EARTHWORKS VOLUMES ARE BASED ON THE FOLLOWING:
 400mm BUILDING SLAB
 275mm DRIVEWAY

COUNCIL REF: A005771300

PROPERTY DESCRIPTION
 LOT 2 on SP308887

LAYOUT PLAN
 Scale 1:200

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

Associated Consultant

URBAN CREATRIX Pty Ltd
 Planning + Design + Solutions

GATEWAY PROPERTY SERVICES PTY LTD

wcd designs
 Engineering design and drafting services
 20A, 25 Samuel Street, Camp Hill, QLD, 4152
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Project
**236 MUSGRAVE ROAD
 COOPERS PLAINS QLD
 4108**

Drawing Title
**OPERATIONAL WORKS
 BULK EARTHWORKS
 LAYOUT PLAN**

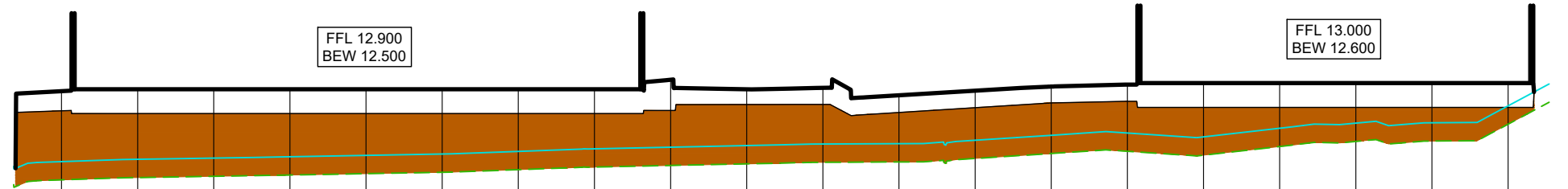
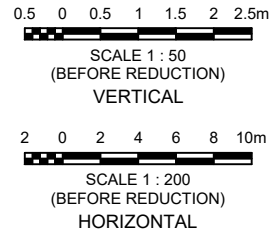
Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
 Name W.Clark RPEQ No. 16580

Signed *W.Clark*
 Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-007** Rev. **A**



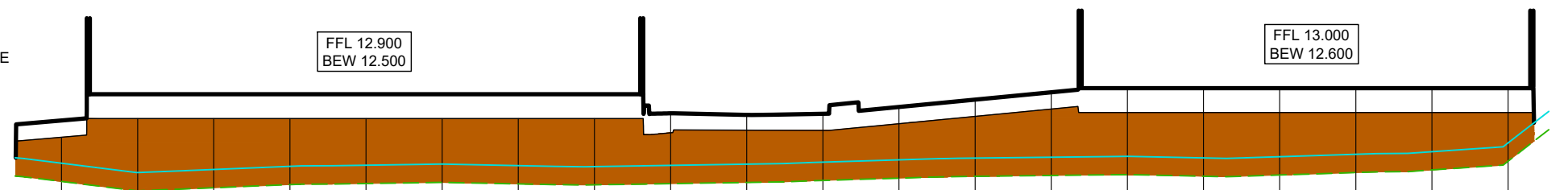
VERT EXAG 1:4
Datum 10.000

CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	101.709	104.587	
DESIGN LEVELS		12.544	12.500	12.500	12.500	12.500	12.500	12.500	12.500	12.550	12.647	12.650	12.518	12.597	12.673	12.700	12.600	12.600	12.600	12.600	12.600	12.600	12.854	
EXISTING LEVELS		11.409	11.448	11.468	11.490	11.511	11.534	11.577	11.620	11.646	11.672	11.698	11.703	11.761	11.842	11.879	11.815	11.958	12.041	12.047	12.047	12.325	12.554	
DEPTH		1.135	1.052	1.032	1.010	0.989	0.966	0.923	0.880	0.904	0.975	0.952	0.814	0.836	0.831	0.821	0.785	0.642	0.559	0.553	0.553	0.275	0.300	
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	101.709	104.587	

BEW SECTION 1 LONG SECTION

LEGEND

- FINISHED SURFACE
- EARTHWORKS SURFACE
- EXISTING SURFACE
- 300mm STRIPPED SURFACE



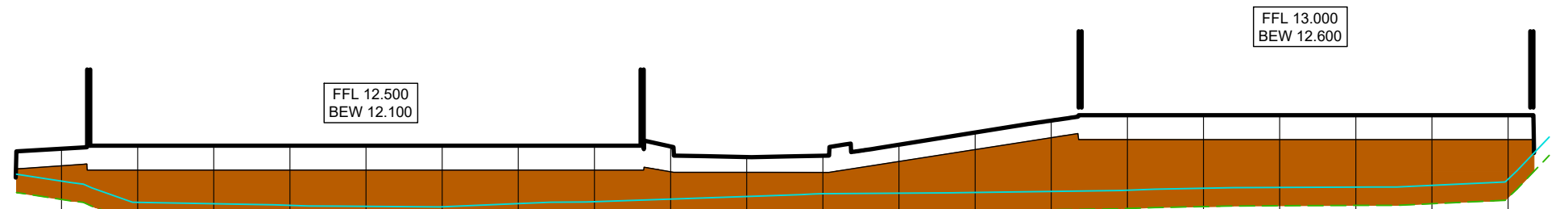
VERT EXAG 1:4
Datum 10.000

CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	102.679	104.587		
DESIGN LEVELS		11.468	11.315	11.365	11.416	11.434	11.453	11.428	11.413	11.432	11.452	11.485	11.523	11.552	11.567	11.581	11.554	11.574	11.614	11.657	11.602	12.320			
EXISTING LEVELS		12.195	12.500	12.500	12.500	12.500	12.500	12.500	12.500	12.268	12.310	12.306	12.417	12.537	12.658	12.600	12.600	12.600	12.600	12.600	12.600	12.600	12.600	12.320	
DEPTH		0.727	1.185	1.135	1.084	1.066	1.047	1.072	1.087	0.835	0.858	0.821	0.894	0.985	1.091	1.019	1.046	1.026	0.986	0.943	0.798	0.279			
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	102.679	104.587		

BEW SECTION 2 LONG SECTION

LEGEND

- EARTHWORKS - CUT
- EARTHWORKS - FILL



VERT EXAG 1:4
Datum 10.000

CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	101.709	104.587	
DESIGN LEVELS		12.171	12.100	12.100	12.100	12.100	12.100	12.100	12.100	12.073	12.064	12.063	12.243	12.437	12.632	12.600	12.600	12.600	12.600	12.600	12.600	12.600	12.382	
EXISTING LEVELS		11.619	11.272	11.249	11.222	11.207	11.198	11.250	11.282	11.325	11.368	11.414	11.423	11.434	11.451	11.470	11.502	11.516	11.522	11.522	11.549	11.650	12.082	
DEPTH		0.551	0.828	0.851	0.878	0.893	0.902	0.850	0.818	0.748	0.696	0.649	0.820	1.003	1.181	1.130	1.088	1.084	1.078	1.051	0.950	0.300		
CHAINAGE	0.000	5.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000	75.000	80.000	85.000	90.000	95.000	100.000	101.709	104.587	

BEW SECTION 3 LONG SECTION

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
BULK EARTHWORKS
TYPICAL SECTIONS
SHEET 1 OF 2**

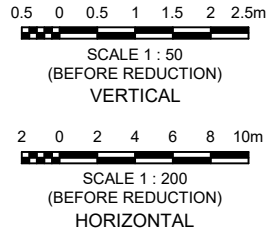
Council Reference
A005771300

Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

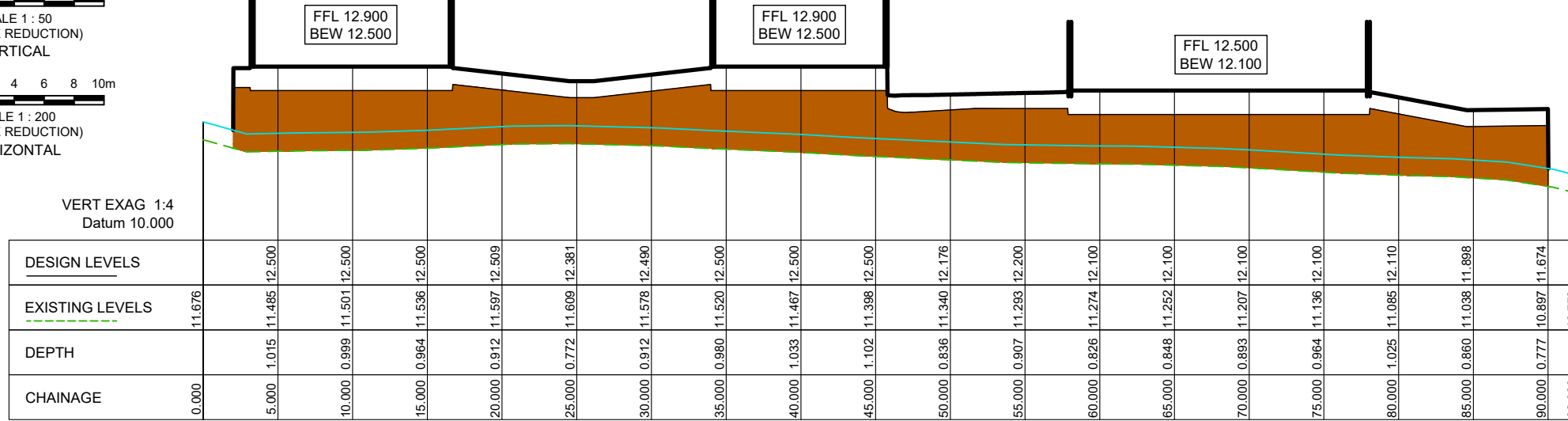
Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. WCD-21866-008 Rev. A



VERT EXAG 1:4
Datum 10.000

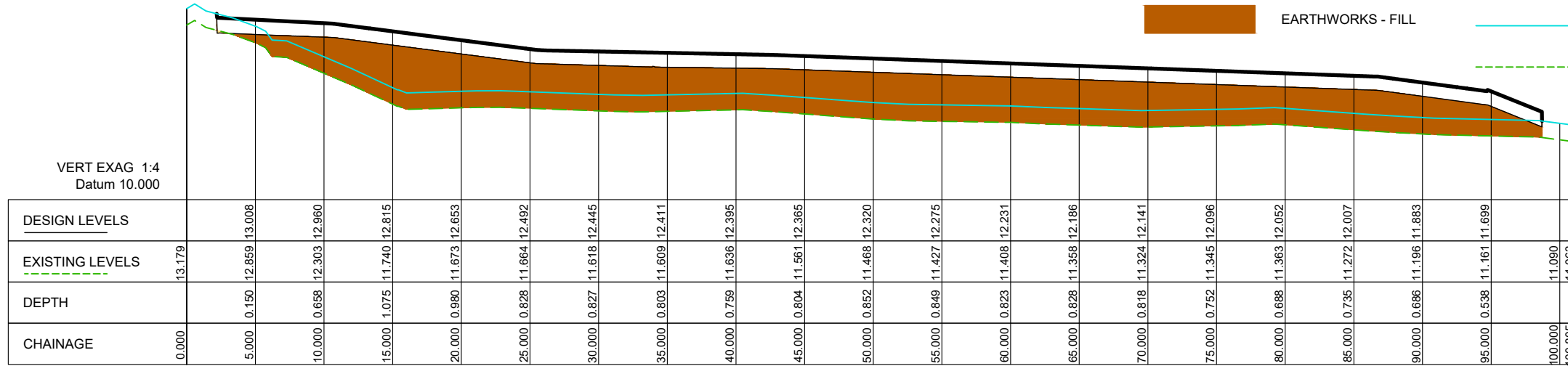


BEW SECTION 4 LONG SECTION

LEGEND

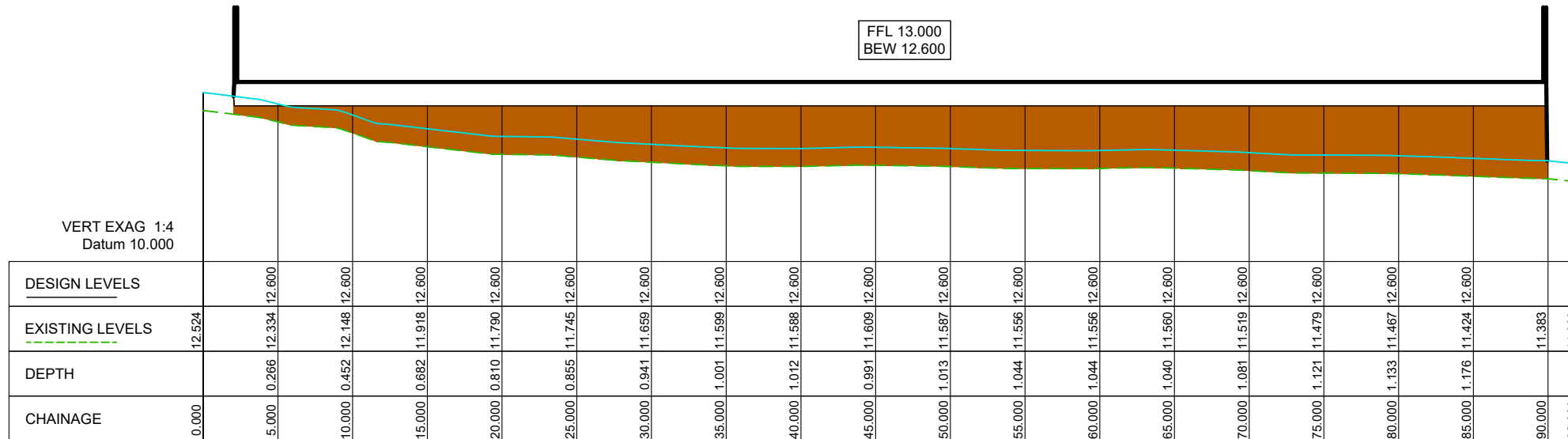
- EARTHWORKS - CUT
- EARTHWORKS - FILL
- FINISHED SURFACE
- EARTHWORKS SURFACE
- EXISTING SURFACE
- 300mm STRIPPED SURFACE

VERT EXAG 1:4
Datum 10.000



BEW SECTION 5 LONG SECTION

VERT EXAG 1:4
Datum 10.000



BEW SECTION 6 LONG SECTION

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Original Issue (For App.)	JP	18/02/22	
Rev	Description	Drawn	Date
Associated Consultant			

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
BULK EARTHWORKS
TYPICAL SECTIONS
SHEET 2 OF 2**

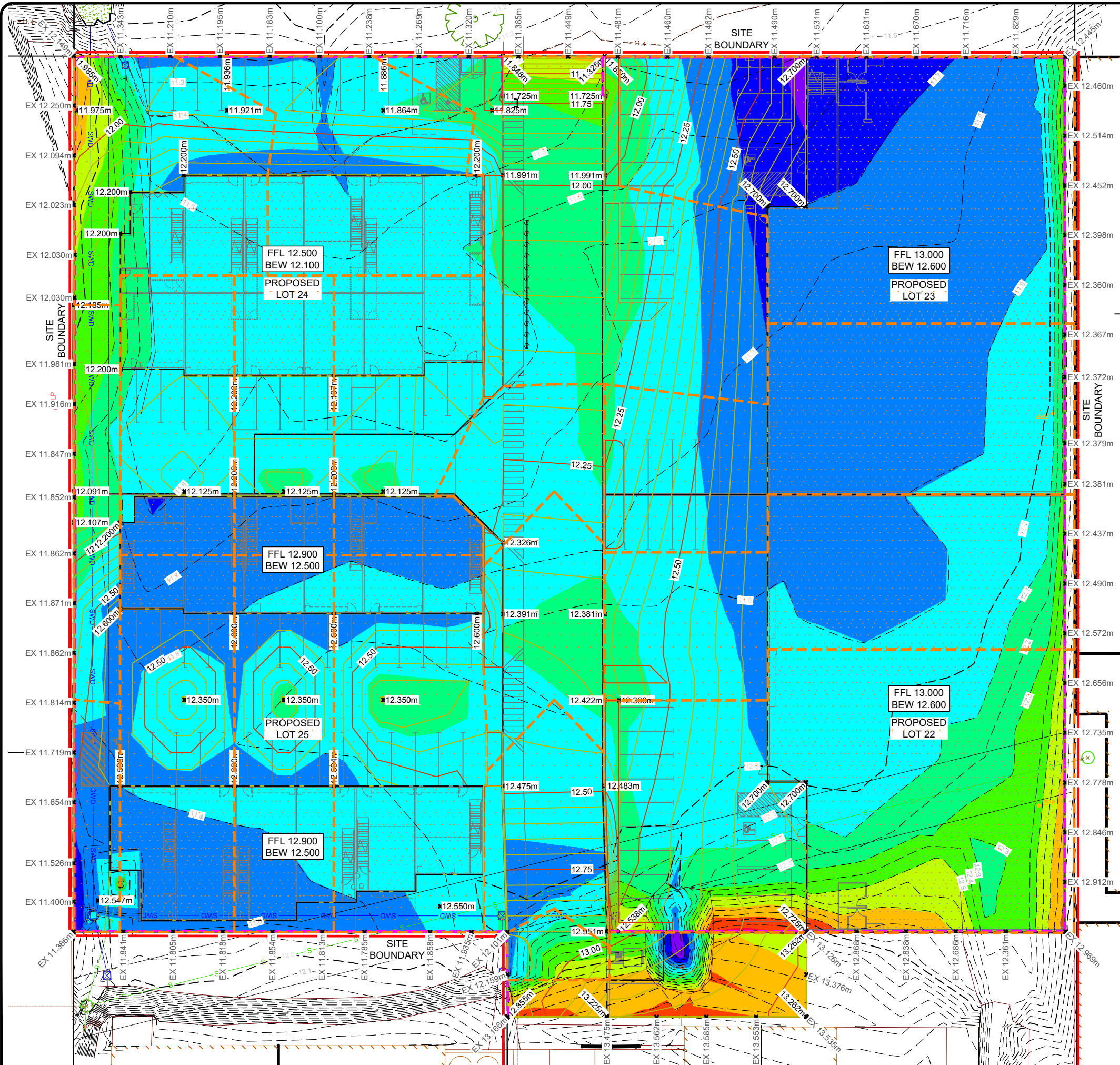
Council Reference
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Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. WCD-21866-009 Rev. A



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EARTHWORKS SETOUT TO BE DERIVED FROM STRUCTURAL DETAILS AND ARCHITECTURAL PLANS

REFER WCD-21866-002 FOR BULK EARTHWORKS NOTES

- RETAINING / BATTER NOTES**
1. ALL RETAINING WALLS (INCLUDING DRAINAGE) MUST BE CONTAINED WHOLLY WITHIN THE PROPERTY BOUNDARY OF THE SITE.
 2. ALL BATTERS BOTH TEMPORARY AND PERMANENT ARE TO BE NO STEEPER THAN 1in4 AND ARE TO BE CERTIFIED BY AN APPROPRIATELY QUALIFIED GEOTECHNICAL ENGINEER.
 3. ALL BATTERS ARE TO BE VERIFIED BY AN APPROPRIATELY QUALIFIED GEOTECHNICAL ENGINEER TO ENSURE NO ADVERSE EFFECTS TO THE ADJOINING PROPERTIES.
 4. EARTH RETAINING STRUCTURES (OTHER THAN BASEMENT EXCAVATIONS) THAT RETAIN FILL GREATER THAN 1.0m IN HEIGHT ARE TO BE VERTICALLY AND HORIZONTALLY TIERED BY A RATIO OF 1:1.

- LEGEND**
- SITE BOUNDARY
 - 10.5 DESIGN SURFACE CONTOURS
 - 10.5 NATURAL SURFACE CONTOURS

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Red	-0.400	-0.200
2	Orange	-0.200	0.000
3	Yellow	0.000	0.200
4	Light Green	0.200	0.400
5	Green	0.400	0.600
6	Dark Green	0.600	0.800
7	Cyan	0.800	1.000
8	Blue	1.000	1.200
9	Dark Blue	1.200	1.400
10	Purple	1.400	1.600

300mm TOPSOIL STRIP VOLUME = 5700cum (Solid Measure)

EARTHWORKS CUT VOLUME = 2cum (Solid Measure)

EARTHWORKS FILL VOLUME = 7945cum (Solid Measure)

EARTHWORKS VOLUMES ARE BASED ON THE FOLLOWING:
 400mm BUILDING SLAB
 275mm DRIVEWAY

Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn Date
Associated Consultant		

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Client
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Project
**236 MUSGRAVE ROAD
 COOPERS PLAINS QLD
 4108**

Drawing Title
**OPERATIONAL WORKS
 BULK EARTHWORKS
 LAYOUT PLAN**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
 Name W.Clark RPEQ No. 16580

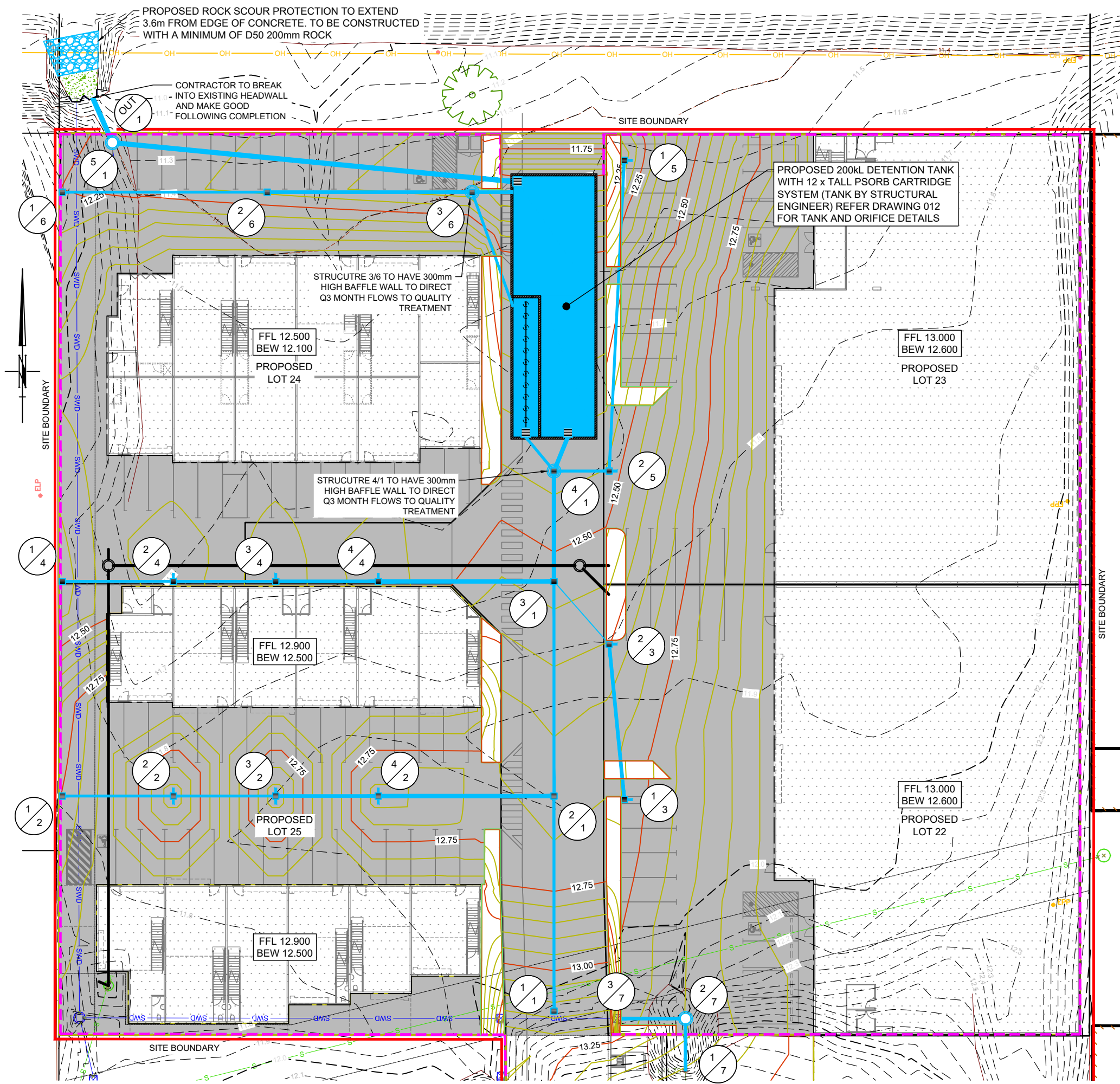
Signed
 Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-010** Rev. **A**

PROPERTY DESCRIPTION
 LOT 2 on SP308887

LAYOUT PLAN
 Scale 1:200
 SCALE 1 : 200
 (BEFORE REDUCTION)

COUNCIL REF: A005771300



GENERAL NOTES

1. ALL WORK TO CONFORM TO AS 3500 Part 1, 2 & 3.
2. ALL WORK TO CONFORM WITH ALL RELEVANT AUSTRALIAN STANDARDS.
3. CONTRACTOR TO VERIFY ALL LEVELS BEFORE COMMENCING WORK TO ENSURE CONNECTION TO SERVICE WITH ADEQUATE COVER AND FALL.
4. THE EXISTING UNDERGROUND SERVICES SHOWN HAVE BEEN OBTAINED FROM OLD RECORDS OF THE RELEVANT AUTHORITIES AND MAY NOT BE ACCURATE, THE CONTRACTOR SHALL ALLOW TO LOCATE EXISTING SERVICES AS REQUIRED FOR CONNECTION.






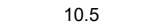
WARNING
BEWARE OF UNDERGROUND SERVICES
 The locations of underground services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.



REFER WCD-21866-002 FOR STANDARD DRAINAGE NOTES

INTERNAL DRAINAGE LAYOUT AND ASSOCIATED PLUMBING APPROVAL TO BE COORDINATED WITH HYDRAULIC CONSULTANTS DRAWINGS.

LEGEND

-  PROPOSED STORMWATER PIPE
-  PROPOSED FIELD INLET
-  RETAINING WALL
-  SITE BOUNDARY
-  10.5 DESIGN SURFACE CONTOURS
-  10.5 NATURAL SURFACE CONTOURS

PROPERTY DESCRIPTION
 LOT 2 on SP308887

LAYOUT PLAN
 Scale 1:200
 SCALE 1 : 200 (BEFORE REDUCTION)

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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GATEWAY PROPERTY SERVICES PTY LTD



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Project
236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108

Drawing Title
OPERATIONAL WORKS
DRAINAGE SITE LAYOUT PLAN

Council Reference
A005771300

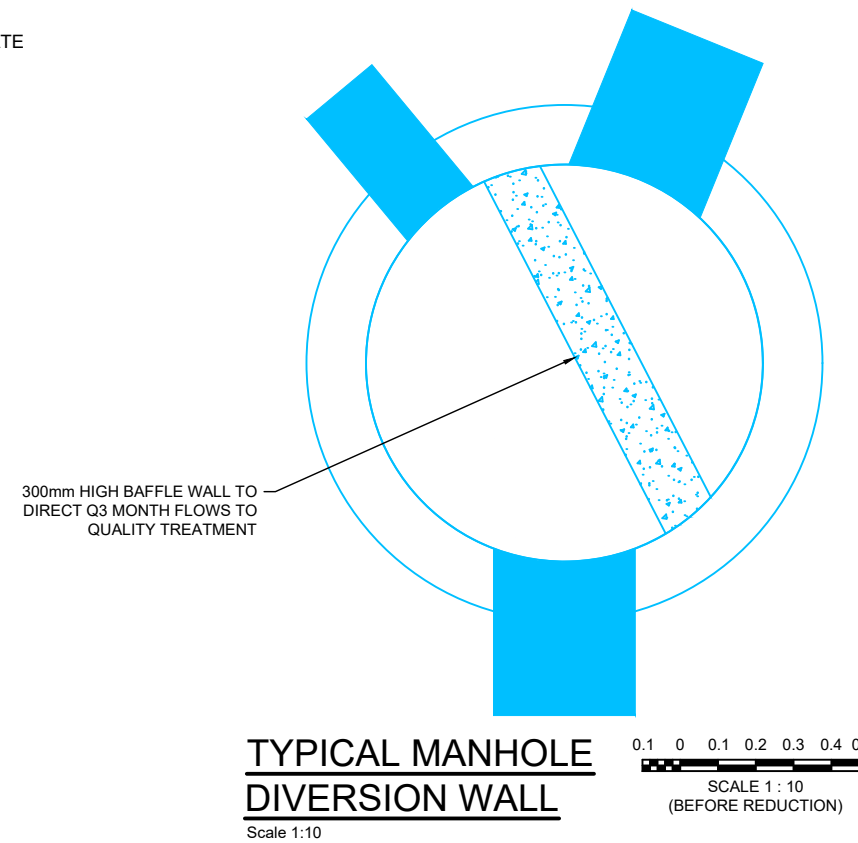
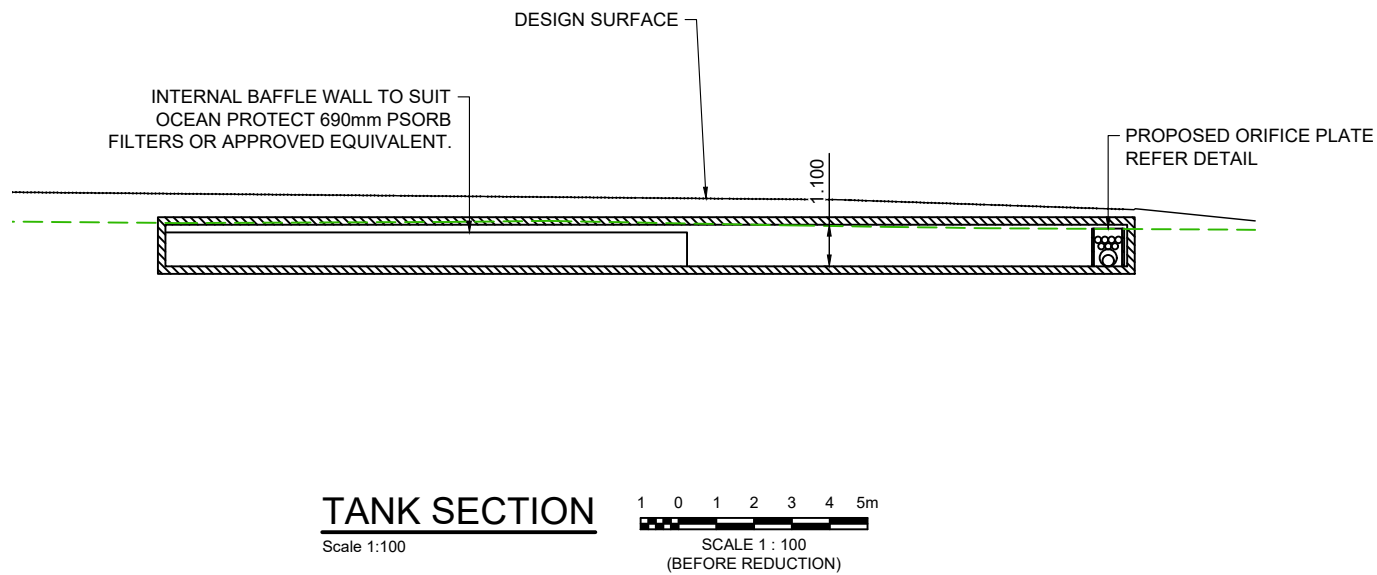
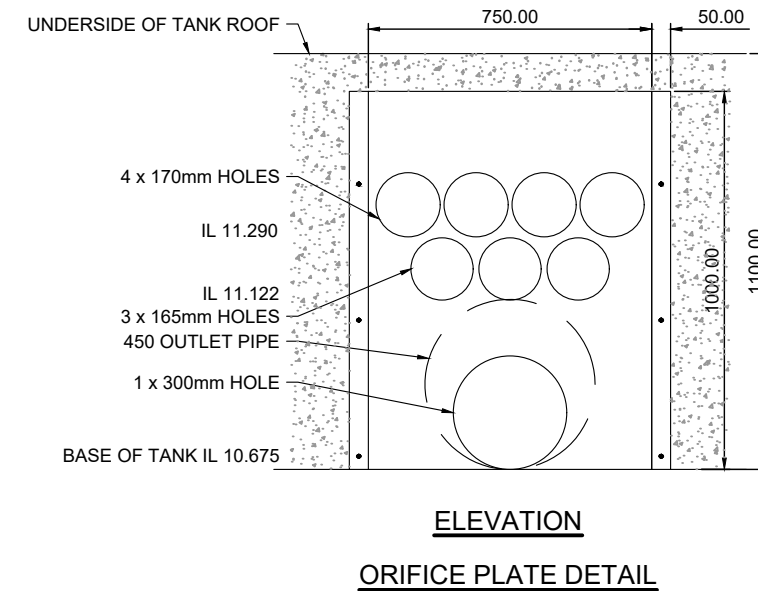
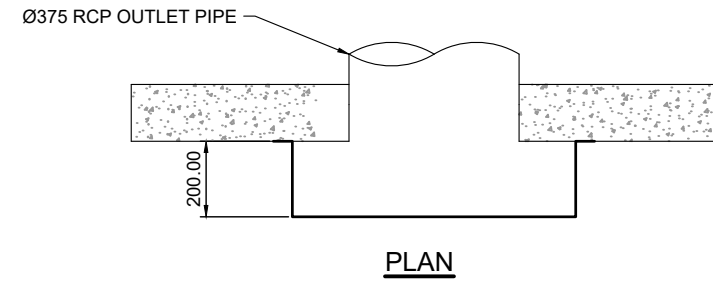
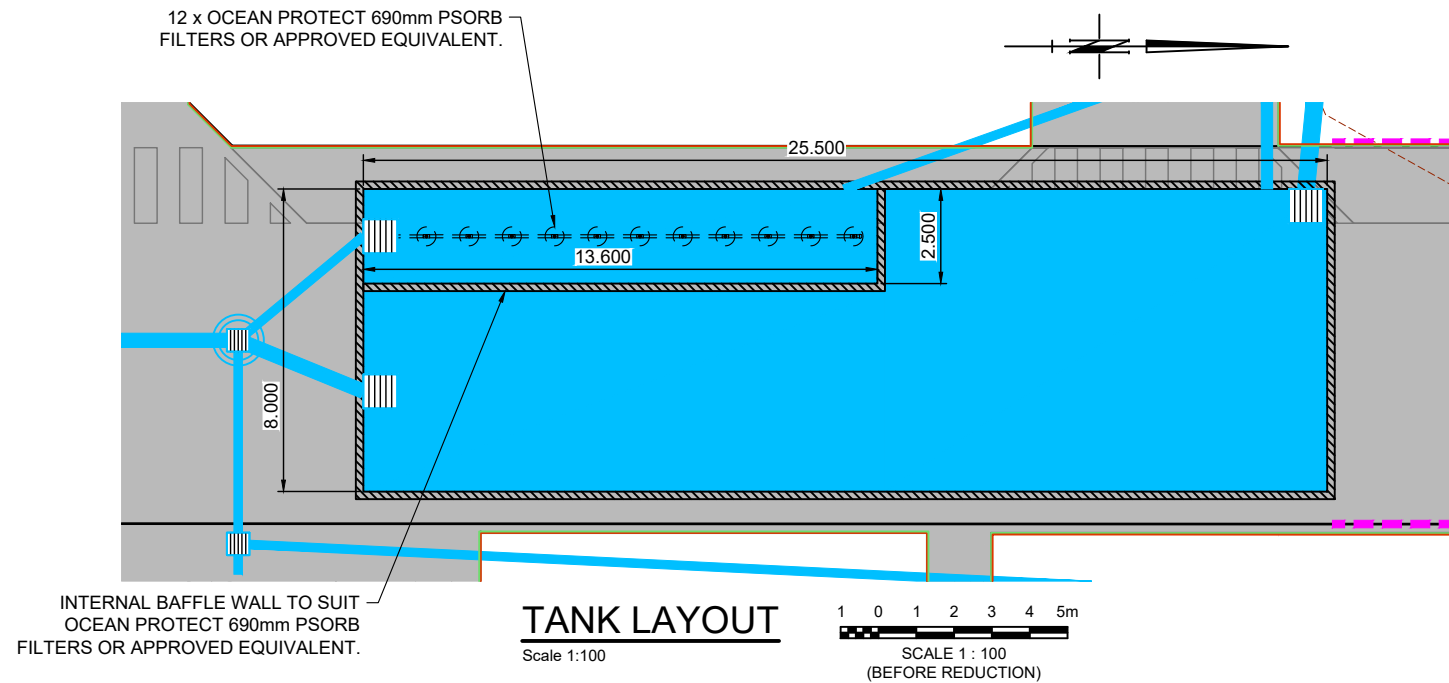
Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
 Name W.Clark RPEQ No. 16580

Signed *W.Clark*
 Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-011** Rev. **A**

COUNCIL REF: A005771300



PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client
GATEWAY PROPERTY SERVICES PTY LTD

wc designs
Engineering design and drafting services
20A, 25 Samuel Street, Camp Hill, QLD, 4152
07 3062 9835 www.wcdesigns.net.au
ABN 79 619 955 145

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Project
236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108

Drawing Title
OPERATIONAL WORKS
DETENTION TANK DETAILS

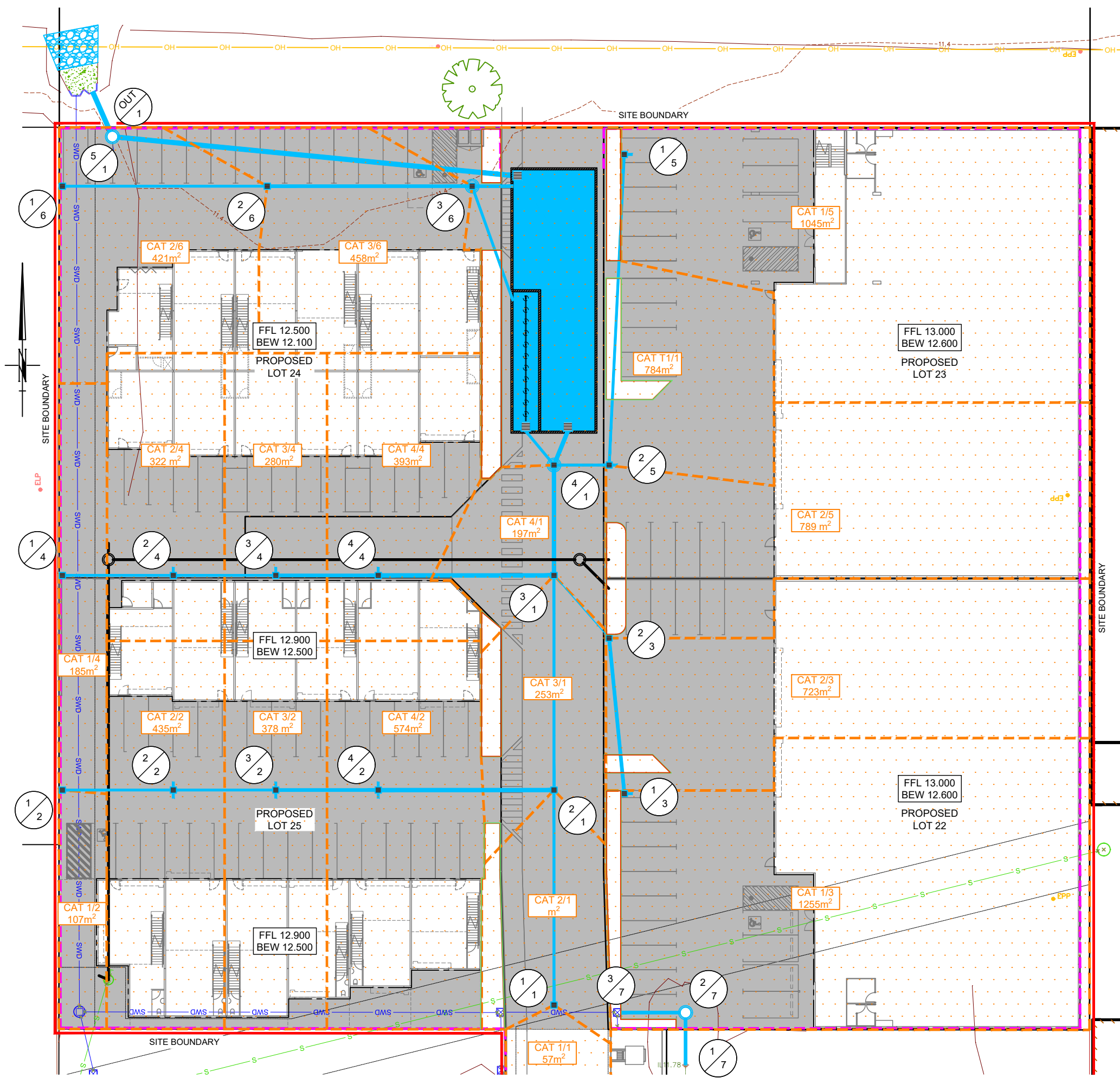
Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed *W.Clark*
Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-012** Rev. **A**



PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:200
SCALE 1 : 200
(BEFORE REDUCTION)

GENERAL NOTES

1. ALL WORK TO CONFORM TO AS 3500 Part 1, 2 & 3.
2. ALL WORK TO CONFORM WITH ALL RELEVANT AUSTRALIAN STANDARDS.
3. CONTRACTOR TO VERIFY ALL LEVELS BEFORE COMMENCING WORK TO ENSURE CONNECTION TO SERVICE WITH ADEQUATE COVER AND FALL.
4. THE EXISTING UNDERGROUND SERVICES SHOWN HAVE BEEN OBTAINED FROM OLD RECORDS OF THE RELEVANT AUTHORITIES AND MAY NOT BE ACCURATE, THE CONTRACTOR SHALL ALLOW TO LOCATE EXISTING SERVICES AS REQUIRED FOR CONNECTION.

WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works.

REFER WCD-21866-002 FOR STANDARD DRAINAGE NOTES

INTERNAL DRAINAGE LAYOUT AND ASSOCIATED PLUMBING APPROVAL TO BE COORDINATED WITH HYDRAULIC CONSULTANTS DRAWINGS.

LEGEND

- CATCHMENT AREA
- PROPOSED STORMWATER PIPE
- PROPOSED FIELD INLET
- RETAINING WALL
- SITE BOUNDARY

COUNCIL REF: A005771300

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
DRAINAGE SITE CATCHMENT
LAYOUT PLAN**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed
Date **18 FEBRUARY 2022**

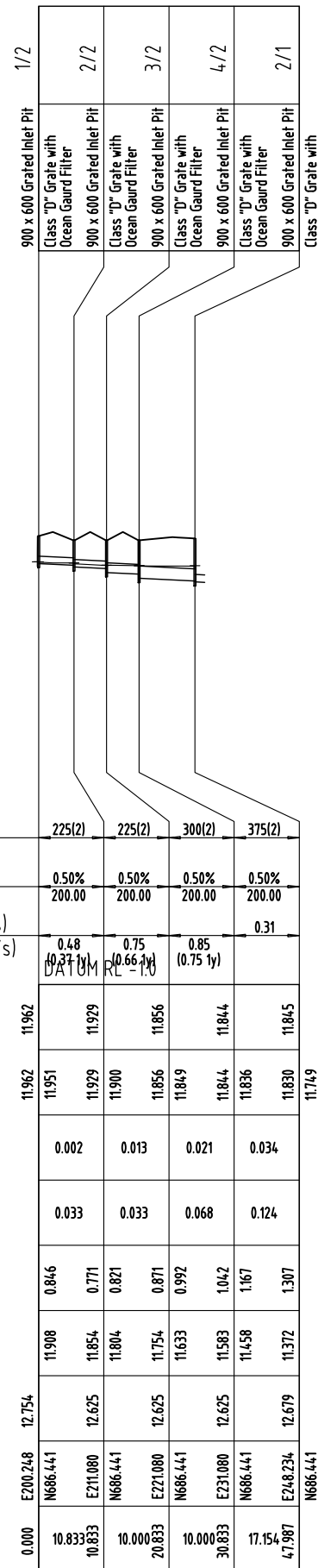
Drawing No. **WCD-21866-013** Rev. **A**

STRUCTURE NAME
STRUCTURE DESCRIPTION

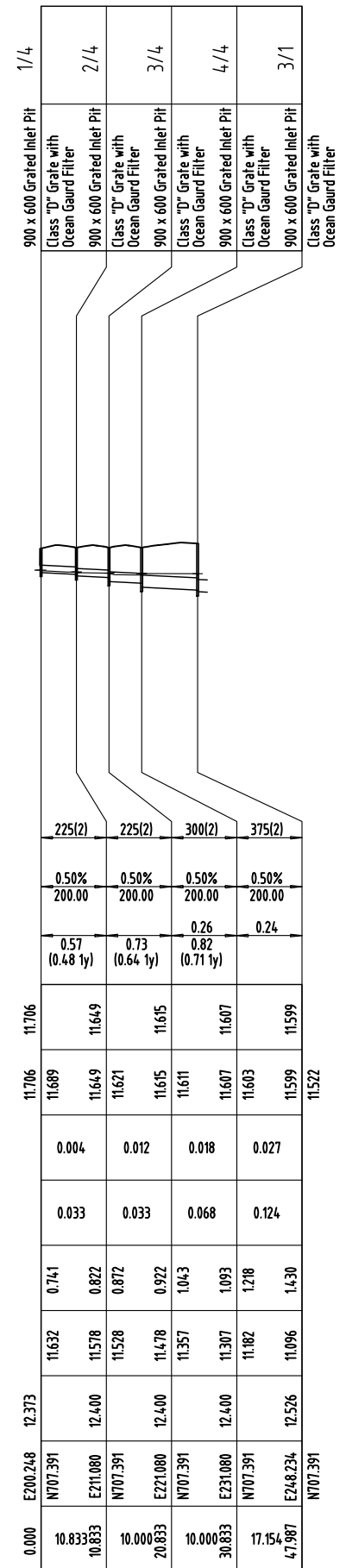
PIPE SIZE (mm Class)	225(2)	225(2)	300(2)	375(2)
PIPE GRADE %	0.50%	0.50%	0.50%	0.50%
PIPE SLOPE 1 in X	200.00	200.00	200.00	200.00
FULL PIPE FLOW VELOCITY (m/s)	0.48	0.75	0.85	0.31
PART FULL FLOW VELOCITY (m/s)	0.37	0.66	0.75	

WATER LEVEL IN STRUCTURE	11.962	11.962	11.962	11.962
HYDRAULIC GRADE LEVEL	11.951	11.929	11.856	11.845
PIPE FLOW (Cumecs)	0.002	0.013	0.021	0.034
PIPE CAPACITY AT GRADE (Cumecs)	0.033	0.033	0.068	0.124
DEPTH TO INVERT	0.846	0.771	0.992	1.307
INVERT LEVEL OF DRAIN	11.908	11.854	11.633	11.372
DESIGN SURFACE LEVEL	12.754	12.625	12.625	12.679
SETOUT CO-ORDINATES	E200.248	E211.080	E221.080	E248.234
RUNNING CHAINAGE	0.000	10.833	20.833	47.987

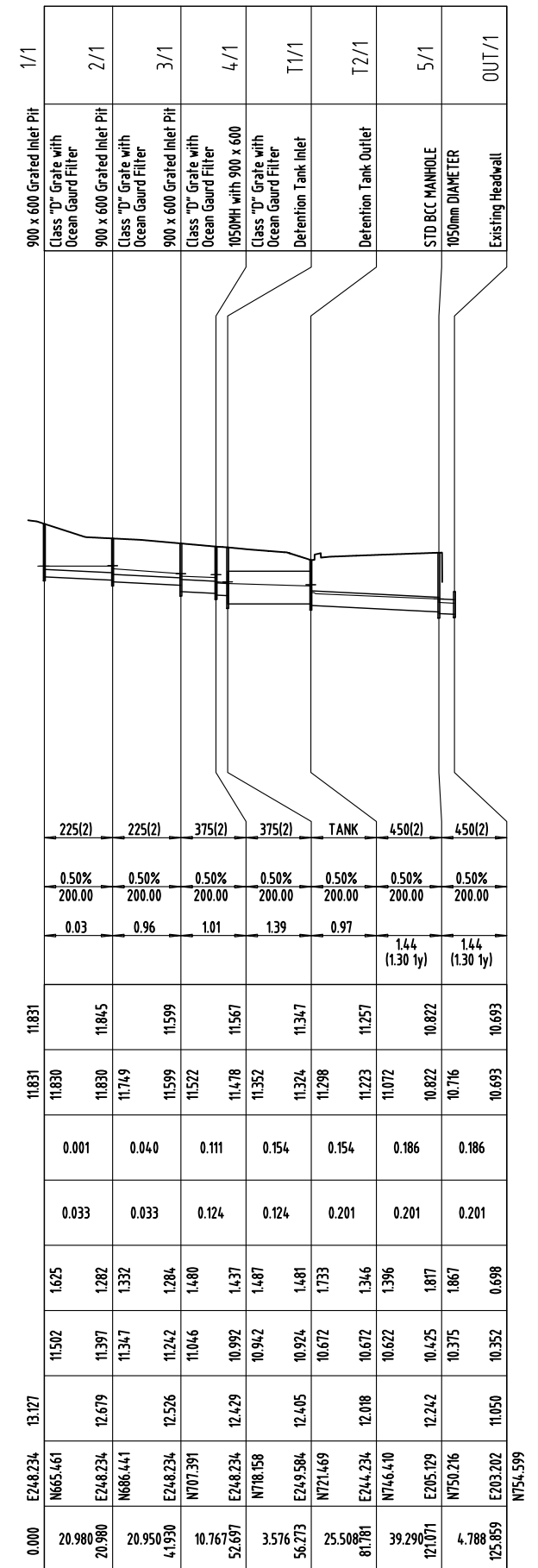
LINE



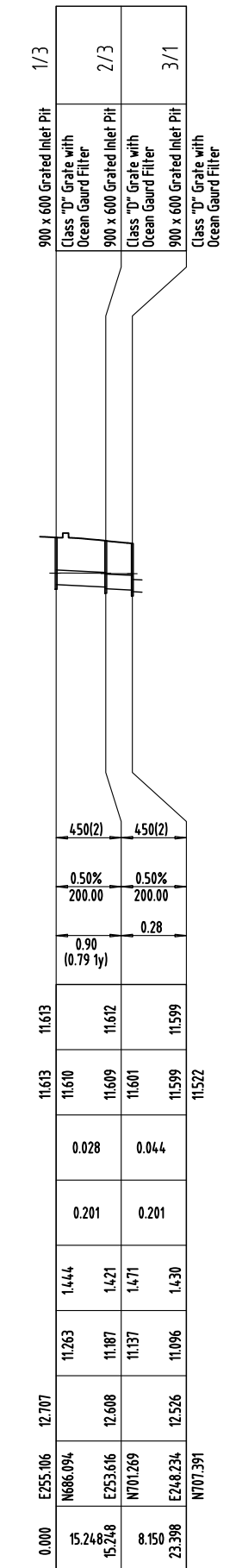
2



4



1



3

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

Associated Consultant

URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client

GATEWAY PROPERTY SERVICES PTY LTD

Engineering design and drafting services
20A, 25 Samuel Street, Camp Hill, QLD, 4152
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Project

**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title

**OPERATIONAL WORKS
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1 OF 2**

Council Reference

A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved

Name W.Clark RPEQ No. 16580

Signed Date 18 FEBRUARY 2022

Drawing No.

WCD-21866-014

Rev.

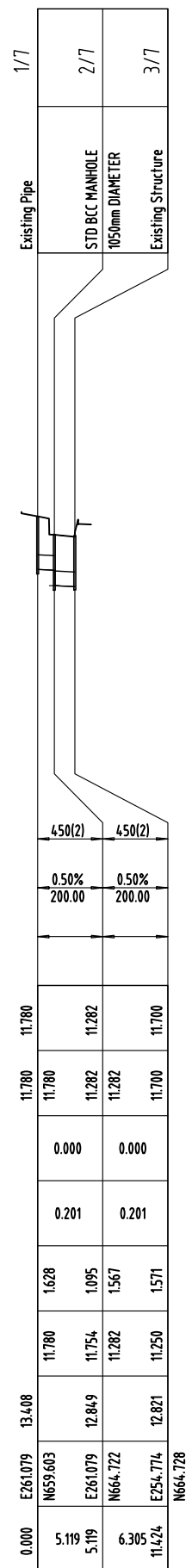
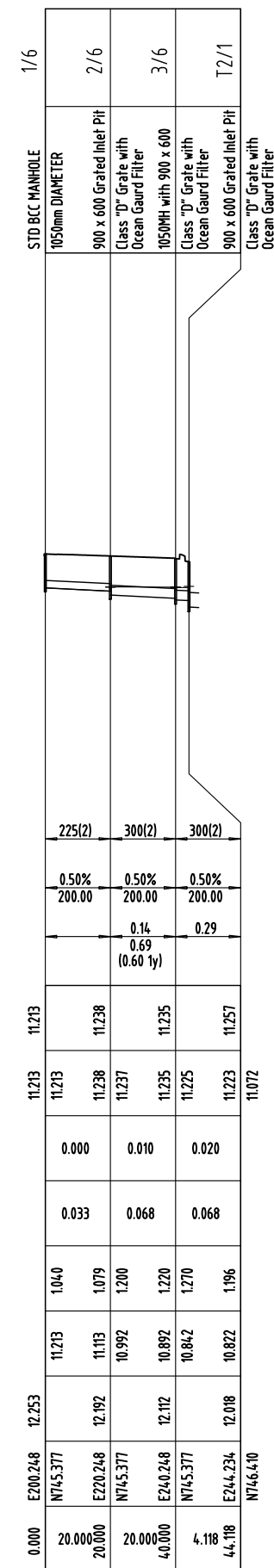
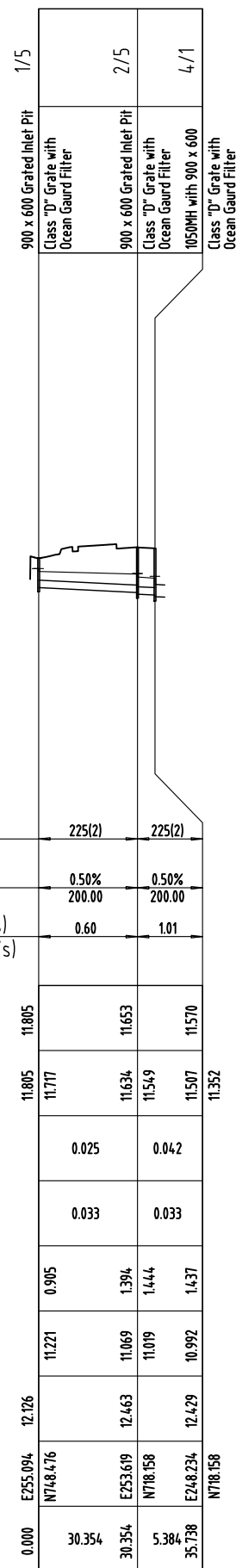
A

STRUCTURE NAME
STRUCTURE DESCRIPTION

PIPE SIZEmm (Class)	225(2)	225(2)
PIPE GRADE %	0.50%	0.50%
PIPE SLOPE 1 in X	200.00	200.00
FULL PIPE FLOW VELOCITY (m/s)	0.60	1.01
PART FULL FLOW VELOCITY (m/s)		

WATER LEVEL IN STRUCTURE	11.805	11.805
HYDRAULIC GRADE LEVEL	11.717	11.634
PIPE FLOW (Cumecs)	0.025	0.042
PIPE CAPACITY AT GRADE (Cumecs)	0.033	0.033
DEPTH TO INVERT	0.905	1.394
INVERT LEVEL OF DRAIN	11.221	11.069
DESIGN SURFACE LEVEL	12.126	12.463
SETOUT CO-ORDINATES	E255.094, N748.476	E253.619, N718.558
RUNNING CHAINAGE	0.000, 30.354	30.354, 5.384

LINE



PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

Associated Consultant
URBAN CREATRIX Pty Ltd
Planning + Design + Solutions

Client
GATEWAY PROPERTY SERVICES PTY LTD

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
DRAINAGE LONGITUDINAL SECTION
SHEET 1 OF 2**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed
Date **18 FEBRUARY 2022**

Drawing No.	Rev.
WCD-21866-015	A

DESIGN ARI	LOCATION				TIME		SUB-CATCHMENT RUNOFF					INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS								
	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	tc	I	C10	C	A	C'A	+CA	Q	Qg	Qb	tc	I	+CA	Qt	Qm	Qs	Qp	L	S	V	T	V2/2g	Ku	hu	Kl	hl	Kw	hw	Sf	hf	Vp	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	LAT. H.G.L	W.S.E.	SURFACE OR K&C INVERT LEVEL	STRUCTURE No.				
5	1/5	1/5 to 2/5	1/5		5.00	191	0.85	0.105	0.089	0.089	47	47	2.58	0	IN	25	23	5.00	191	0.089	85		25	30.354	0.50	450(2)	0.15	0.51	0.001	1.00	0.003			1.00	0.003	0.01	0.002	0.105	0.85	11.671	11.490	11.488	11.493	11.493	12.126	1/5
5	2/5	2/5 to 4/1	1/5,2/5		5.00	191	0.85	0.079	0.067	0.067	36	36	0.88	0	IN	18	17	5.51	185	0.156	144		42	5.384	0.50	450(2)	0.26	0.09	0.003	2.61	0.009			2.77	0.010	0.02	0.001	0.105	0.85	11.671	11.490	11.488	11.488	11.488	12.463	2/5
5	4/1	4/1 to T1/1	1/4,2/4,3/4,4/4,1/1,2/2,3/2,4/2,1/1,2/1,1/3,2/3,3/1,1/1,5/2,5/4,1		5.00	191	0.85	0.020	0.017	0.017	9	9	0.88	0	IN	5	4	6.34	175	0.614	537		154	3.576	0.50	375(2)	1.39	0.04	0.098	1.28	0.126			2.19	0.215	0.77	0.028	0.105	0.85	11.671	11.490	11.488	11.478	11.567	12.429	4/1
5	T1/1	T1/1 to T2/1	1/4,2/4,3/4,4/4,1/1,2/2,3/2,4/2,1/1,2/1,1/3,2/3,3/1,1/1,5/2,5/4,1		5.00	191	0.85	0.042	0.036	0.036	19	19	0.36	0	IN	10	9	6.38	175	0.614	537		154	25.508	0.50	450(2)	0.97	0.43	0.048	0.55	0.027			1.04	0.050	0.29	0.074	0.105	0.85	11.671	11.490	11.488	11.324	11.347	12.405	T1/1
5	1/6	1/6 to 2/6			0.00	0.00	0.00	0.00	0.00	0.00	0	0										0	20.000	0.50	225(2)	0.00	0.33	0.000	0.20	0.000			0.20	0.000	0.00	0.000	0.105	0.85	11.671	11.490	11.488	11.213	11.213	12.253	1/6	
5	2/6	2/6 to 3/6	2/6		5.00	191	0.85	0.042	0.042	0.042	34	34	0.36	0	IN	10	9	5.00	191	0.036	34		10	20.000	0.50	300(2)	0.14	0.33	0.001	1.00	0.001			1.00	0.001	0.01	0.002	0.077	0.69	11.292	11.237	11.238	11.238	11.238	12.192	2/6
5	3/6	3/6 to T2/1	2/6,3/6		5.00	191	0.85	0.046	0.039	0.039	21	21	1.47	0	IN	11	10	5.33	187	0.075	69		20	4.118	0.50	300(2)	0.29	0.07	0.004	2.42	0.010			2.42	0.010	0.04	0.002	0.105	0.85	11.671	11.490	11.488	11.225	11.225	12.112	3/6
5	T2/1	T2/1 to 5/1	1/4,2/4,3/4,4/4,1/1,2/2,3/2,4/2,1/1,2/1,1/3,2/3,3/1,1/1,5/2,5/4,1,2/6,3/6,T2/1		5.00	191	0.85	0.078	0.067	0.067	36	36	0.49	0	IN	18	17	6.81	171	0.756	643		186	39.290	0.50	450(2)	1.17	0.56	0.070	2.16	0.151			2.65	0.185	0.42	0.167	0.341	1.44	11.072	11.072	11.223	11.257	12.018	T2/1	
5	5/1	5/1 to OUT/1	1/4,2/4,3/4,4/4,1/1,2/2,3/2,4/2,1/1,2/1,1/3,2/3,3/1,1/1,5/2,5/4,1,2/6,3/6,T2/1		5.00	191	0.85	0.078	0.067	0.067	36	36	0.49	0	IN	18	17	7.37	166	0.756	625		186	4.788	0.50	450(2)	1.17	0.07	0.070	1.00	0.106			1.00	0.106	0.42	0.020	0.341	1.44	10.825	10.716	10.822	10.822	12.242	5/1	
5	1/7	1/7 to 2/7			0.00	0.00	0.00	0.00	0.00	0.00	0	0										0	5.119	0.50	450(2)	0.00	0.09	0.000	0.20	0.000			0.20	0.000	0.00	0.000	0.105	0.85	11.671	11.490	11.488	11.780	11.780	13.408	1/7	
5	2/7	2/7 to 3/7			0.09	0.09	0.00	0.00	0.00	0.00	0	0										0	6.305	0.50	450(2)	0.00	0.11	0.000	0.20	0.000			0.20	0.000	0.00	0.000	0.105	0.85	11.671	11.490	11.488	11.282	12.949	2/7		

CALCULATIONS TABLE

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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Project
236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108

Drawing Title
OPERATIONAL WORKS
DRAINAGE CALCULATION TABLE

Council Reference A005771300		
Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed 
Date 18 FEBRUARY 2022

Drawing No. WCD-21866-017 Rev. A

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

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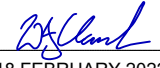
Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
ROADWORKS DETAILS**

Council Reference
A005771300

Design	Drawn	Review
Initials WC Date 18/02/22	Initials JP Date 18/02/22	Initials WC Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed 
Date **18 FEBRUARY 2022**

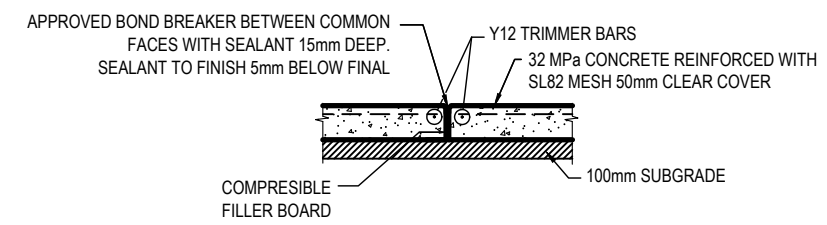
Drawing No. **WCD-21866-018** Rev. **A**

CONCRETE PAVEMENT DETAILS

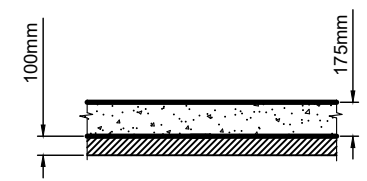
- CONCRETE PAVEMENT TO BE 175mm THICK WITH SL82 MESH
- THE ABOVE DESIGN IS SUBJECT TO GEOTECHNICAL TESTING AND SUBGRADE PROOF ROLL.

CONCRETE NOTES:

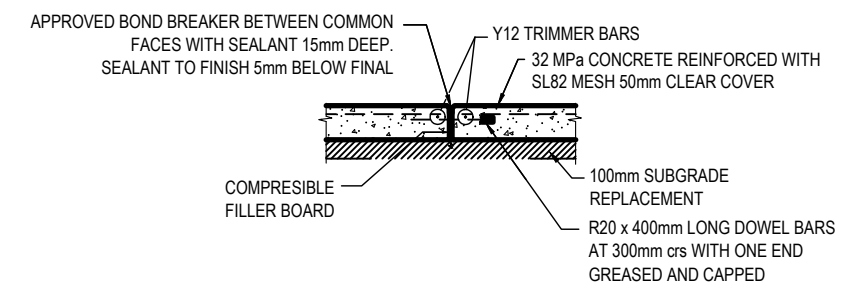
- CONCRETE PAVEMENT SHALL HAVE THE FOLLOWING PROPERTIES UNLESS NOTED ON PLANS:
 - STRENGTH GRADE SHALL BE 32MPa.
 - SLUMP SHALL BE 80mm ± 15mm.
 - MAXIMUM AGGREGATE SIZE SHALL BE 20mm.
 - PRODUCTION ASSESSMENT SHALL BE IN ACCORDANCE WITH SECTION 6.3 OF A.S. 1379.
- CONCRETE PAVEMENT SLABS SHALL BE CURED FOR 7 DAYS MIN. PRIOR TO BEING OPENED FOR USE. CURE BY EITHER COVERING WITH HEAVY DUTY POLYTHENE SHEETING AND KEEPING MOIST OR WITH THE USE OF AN APPROVED CURING COMPOUND.
- DOWEL JOINTING MATERIAL SHALL BE AN APPROVED NON EXTRUDING MATERIAL WITH A HIGH RECOVERY AFTER COMPRESSION.
- REINFORCEMENT COVER TO BE 50mm FROM BOTTOM OF SLAB.
- PROVIDE 1200mm LONG N12 BARS AT EACH CORNER OR ALL STORMWATER PITS, MANHOLE CHAMBERS AND AWNING COLUMNS - TYPICAL...
- MAXIMUM DISTANCE BETWEEN DOWEL JOINTS TO BE 22.5m AND MAXIMUM DISTANCE BETWEEN SAW CUT JOINTS TO BE 4.5m.
- ALL PAVEMENTS TO HAVE A BROOM FINISH OR APPROVED EQUIVALENT



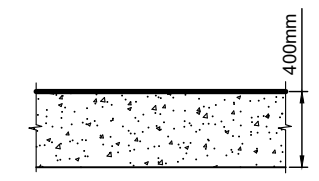
**ISOLATION JOINT
CONCRETE TO CONCRETE (IJ)**
SCALE 1 : 20 AT A1



PROPOSED CONCRETE PAVEMENT
SCALE 1 : 20 AT A1



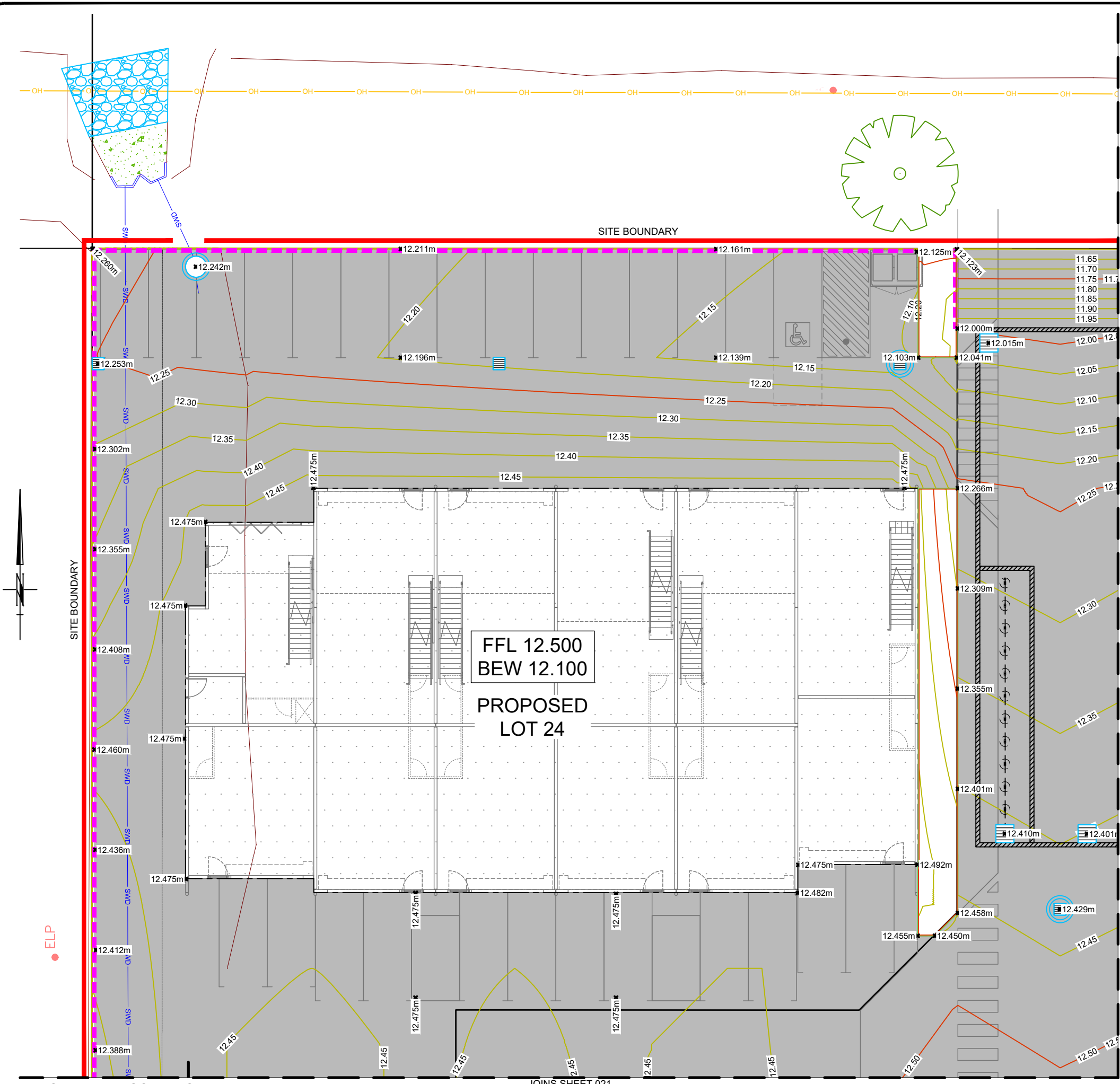
EXPANSION JOINT (EJ)
SCALE 1 : 20 AT A1



PROPOSED BUILDING SLAB
SCALE 1 : 20 AT A1

PROPERTY DESCRIPTION
LOT 2 on SP308887

COUNCIL REF: A005771300



PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:100
SCALE 1:100
(BEFORE REDUCTION)

GENERAL NOTES

1. ALL WORK TO CONFORM TO AS 3500 Part 1, 2 & 3.
2. ALL WORK TO CONFORM WITH ALL RELEVANT AUSTRALIAN STANDARDS.
3. CONTRACTOR TO VERIFY ALL LEVELS BEFORE COMMENCING WORK TO ENSURE CONNECTION TO SERVICE WITH ADEQUATE COVER AND FALL.
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INTERNAL DRAINAGE LAYOUT AND ASSOCIATED PLUMBING APPROVAL TO BE COORDINATED WITH HYDRAULIC CONSULTANTS DRAWINGS.

LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED FIELD INLET
- - - - - RETAINING WALL
- SITE BOUNDARY
- 10.5 DESIGN SURFACE CONTOURS
- 10.5 NATURAL SURFACE CONTOURS

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

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Planning + Design + Solutions

GATEWAY PROPERTY SERVICES PTY LTD



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ABN 79 619 955 145

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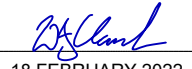
Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 1 OF 6**

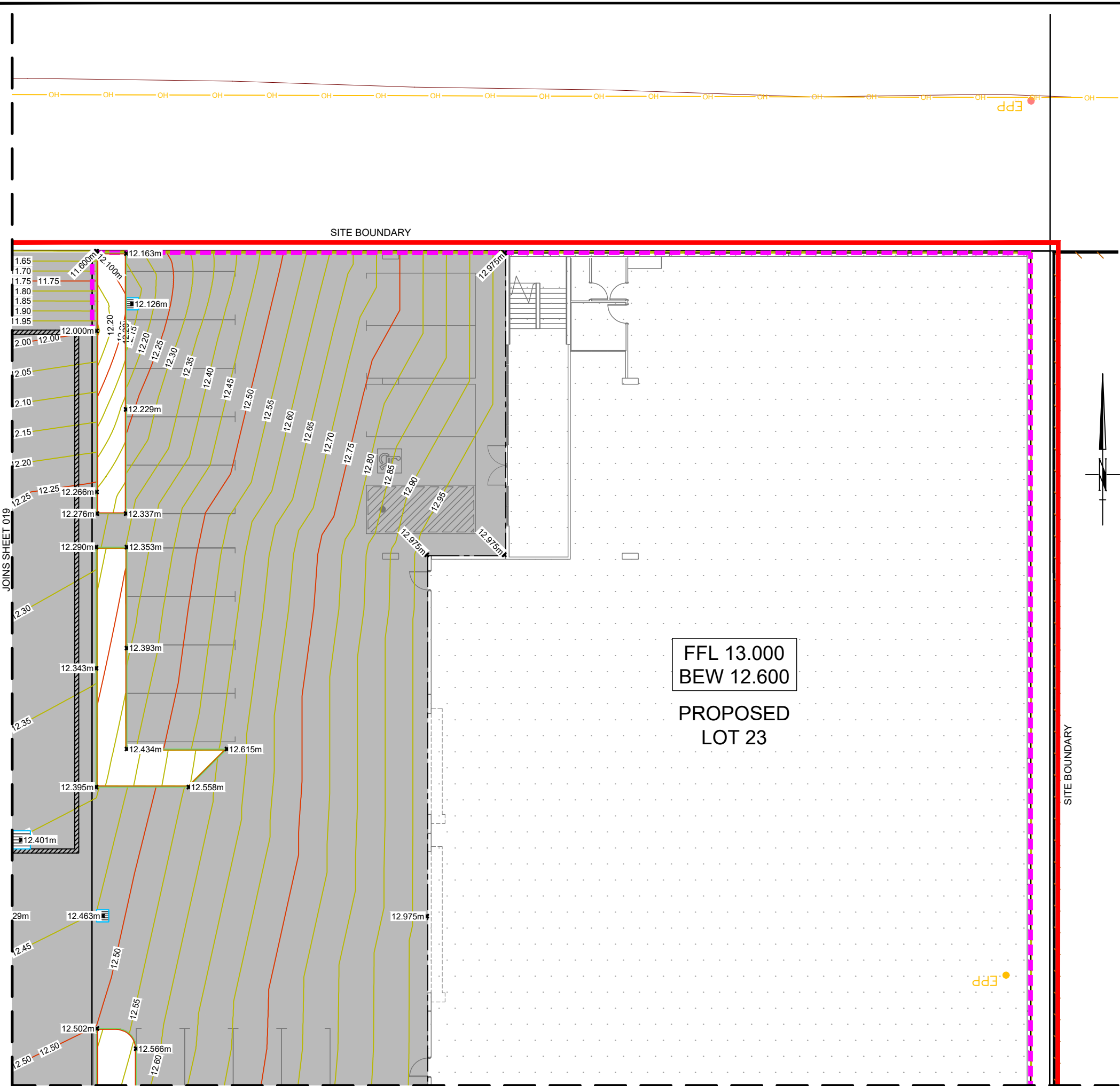
Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed 
Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-019** Rev. **A**



PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:100
SCALE 1 : 100
(BEFORE REDUCTION)

GENERAL NOTES

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INTERNAL DRAINAGE LAYOUT AND ASSOCIATED PLUMBING APPROVAL TO BE COORDINATED WITH HYDRAULIC CONSULTANTS DRAWINGS.

LEGEND

- PROPOSED STORMWATER PIPE
- ▒ PROPOSED FIELD INLET
- - - - - RETAINING WALL
- SITE BOUNDARY
- 10.5 — DESIGN SURFACE CONTOURS
- - - - - 10.5 - - - - - NATURAL SURFACE CONTOURS

COUNCIL REF: A005771300

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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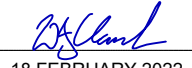
Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 2 OF 6**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed 
Date **18 FEBRUARY 2022**

Drawing No. **WCD-21866-020** Rev. **A**

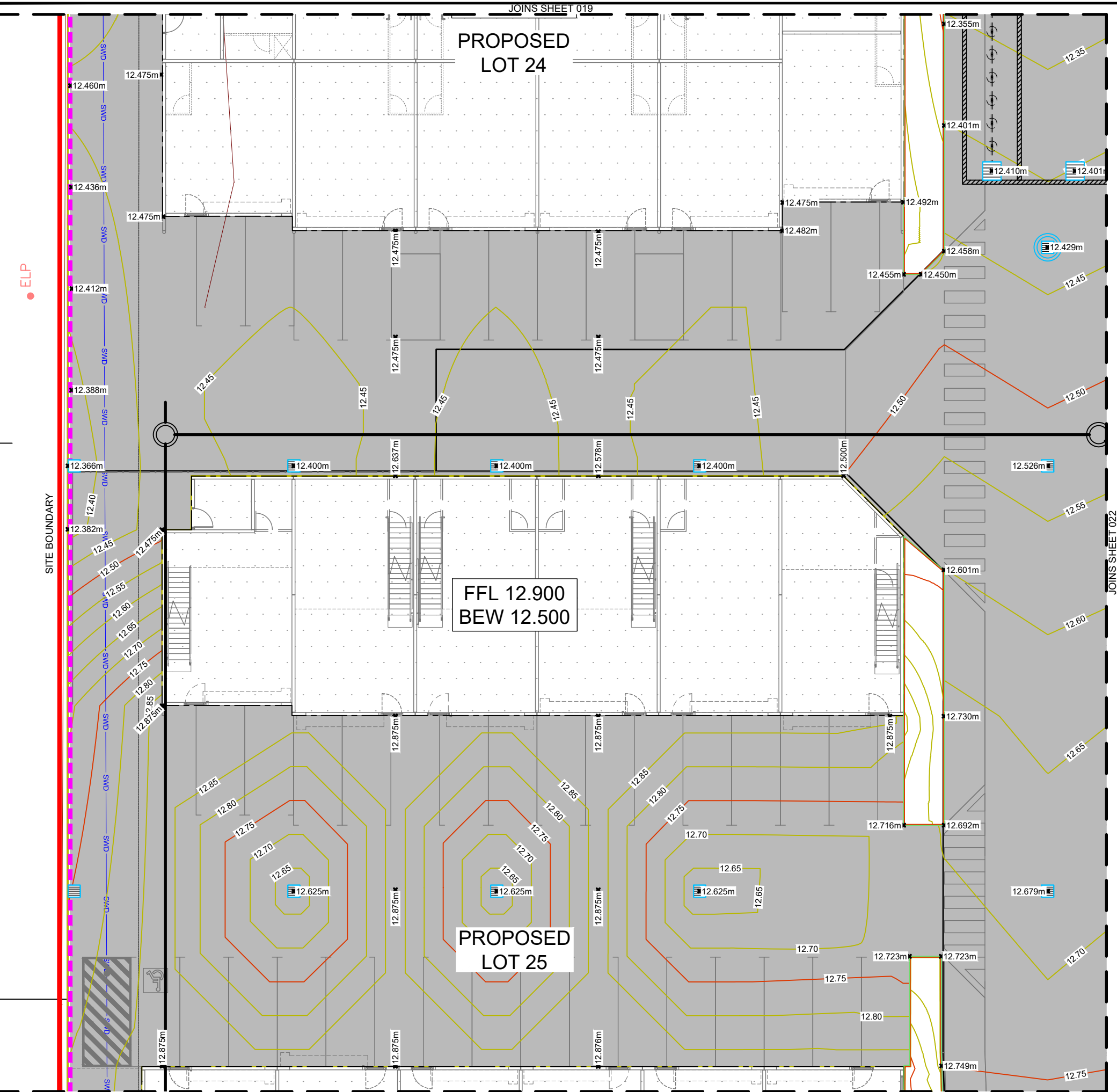
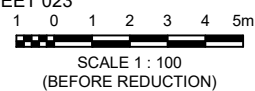
PROPOSED LOT 24

FFL 12.900
BEW 12.500

PROPOSED LOT 25

LAYOUT PLAN

Scale 1:100



PROPERTY DESCRIPTION
LOT 2 on SP308887

GENERAL NOTES

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LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED FIELD INLET
- - - - - RETAINING WALL
- SITE BOUNDARY
- 10.5 DESIGN SURFACE CONTOURS
- 10.5 NATURAL SURFACE CONTOURS

COUNCIL REF: A005771300

Rev	Description	Drawn	Date
A	Original Issue (For App.)	JP	18/02/22

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 3 OF 6**

Council Reference
A005771300

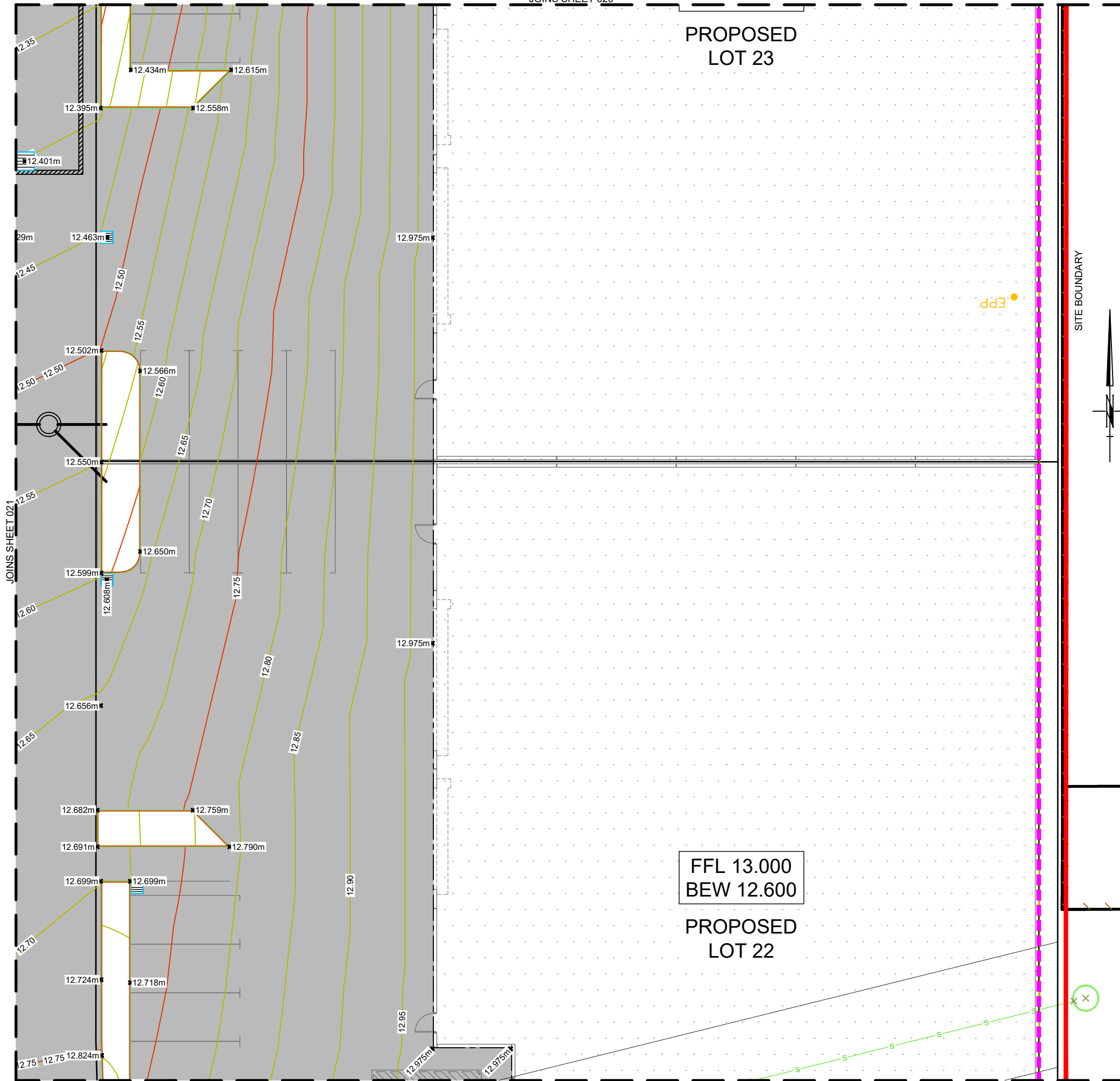
Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name **W.Clark** RPEQ No. 16580

Signed
Date **18 FEBRUARY 2022**

Drawing No. **WCD-21866-021** Rev. **A**

PROPOSED LOT 23



FFL 13.000
BEW 12.600

PROPOSED LOT 22

GENERAL NOTES

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LEGEND

- PROPOSED STORMWATER PIPE
- ▭ PROPOSED FIELD INLET
- - - - - RETAINING WALL
- SITE BOUNDARY
- 10.5 — DESIGN SURFACE CONTOURS
- - - - - 10.5 - - - - - NATURAL SURFACE CONTOURS

COUNCIL REF: A005771300

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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Project
236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108

Drawing Title
OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 4 OF 6

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

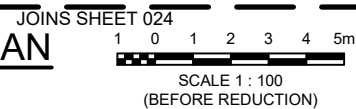
Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. WCD-21866-022 Rev. A

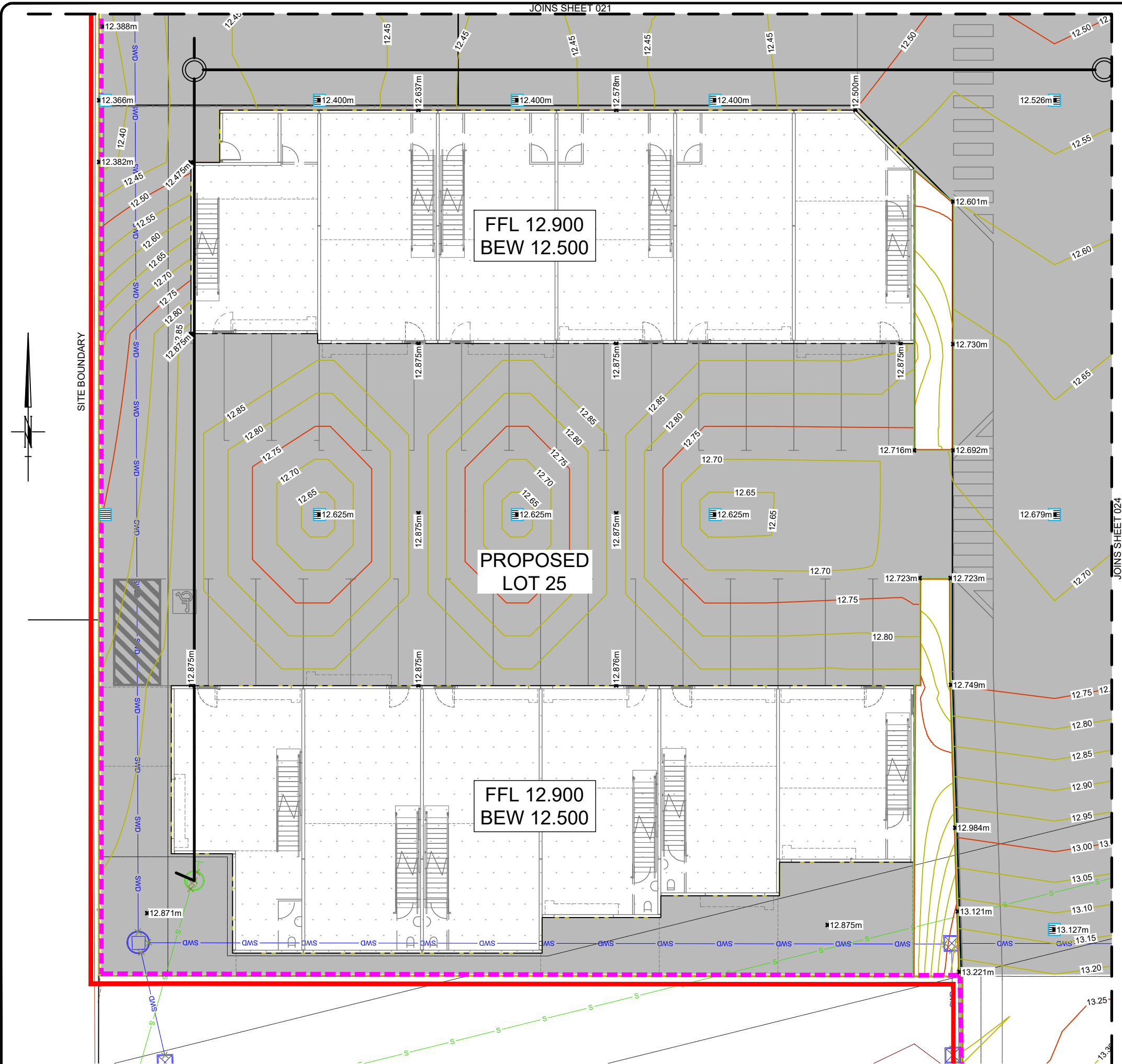
PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:100



JOINS SHEET 021

JOINS SHEET 024



GENERAL NOTES

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LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED FIELD INLET
- RETAINING WALL
- SITE BOUNDARY
- 10.5 DESIGN SURFACE CONTOURS
- 10.5 NATURAL SURFACE CONTOURS

A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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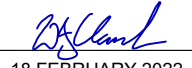
Project
236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108

Drawing Title
OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 5 OF 6

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
 Name W.Clark RPEQ No. 16580

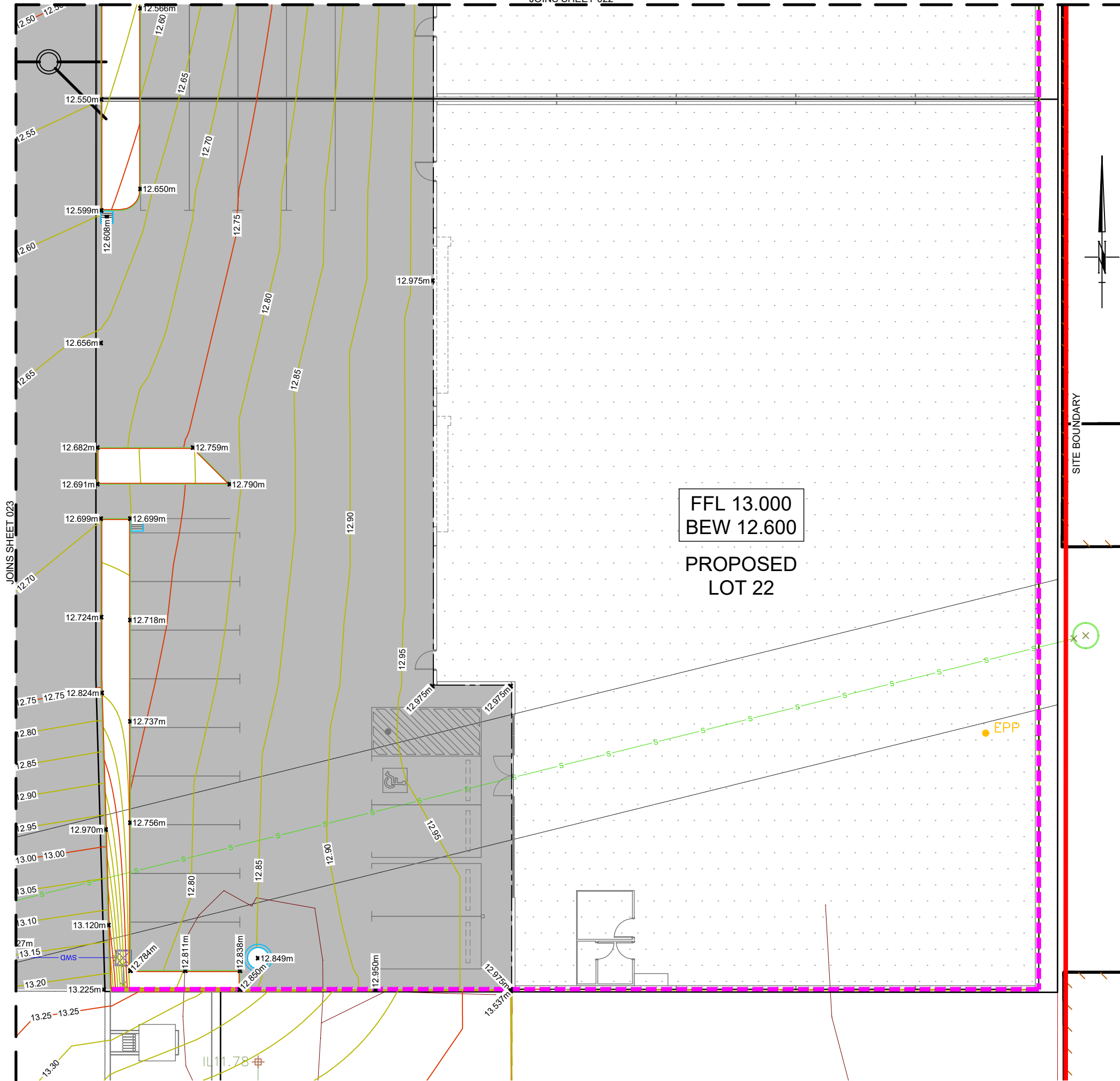
Signed 
 Date 18 FEBRUARY 2022

Drawing No. **WCD-21866-023** Rev. **A**

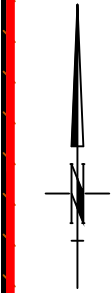
PROPERTY DESCRIPTION
 LOT 2 on SP308887

LAYOUT PLAN
 Scale 1:100
 SCALE 1 : 100
 (BEFORE REDUCTION)

COUNCIL REF: A005771300



FFL 13.000
BEW 12.600
PROPOSED
LOT 22



SITE BOUNDARY



EPP

GENERAL NOTES

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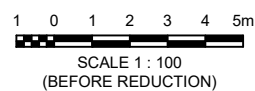
LEGEND

- PROPOSED STORMWATER PIPE
- PROPOSED FIELD INLET
- RETAINING WALL
- SITE BOUNDARY
- 10.5 DESIGN SURFACE CONTOURS
- 10.5 NATURAL SURFACE CONTOURS

COUNCIL REF: A005771300

PROPERTY DESCRIPTION
LOT 2 on SP308887

LAYOUT PLAN
Scale 1:100



A	Original Issue (For App.)	JP	18/02/22
Rev	Description	Drawn	Date

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Project
**236 MUSGRAVE ROAD
COOPERS PLAINS QLD
4108**

Drawing Title
**OPERATIONAL WORKS
FINISHED SURFACE LAYOUT
SHEET 6 OF 6**

Council Reference
A005771300

Design	Drawn	Review
Initials WC	Initials JP	Initials WC
Date 18/02/22	Date 18/02/22	Date 18/02/22

Approved
Name W.Clark RPEQ No. 16580

Signed
Date 18 FEBRUARY 2022

Drawing No. WCD-21866-024 Rev. A