

# UGL / CPB JV COPPERSTRING 2032 HUGHENDEN CAMP - DETAILED DESIGN



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DRAWING NUMBER:	TITLE:	REVISION:
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REFERENCE FILES ATTACHED:

DRAWING REVISION HISTORY						SCALE (PLOTTED FULL SIZE)	SHEET SIZE	CLIENT	DRAWING TITLE
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE				
						N.T.S.	A1	<p><b>pitt&amp;sherry</b></p> <p><small>pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309</small></p> <p><small>© 2024 PITT &amp; SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.</small></p>	LOCALITY AND DRAWING INDEX
									UGL / CPB JV COPPERSTRING 2032 HUGHENDEN CAMP - DETAILED DESIGN
A	ISSUE FOR APPROVAL	C.Vanderweyden	D.McKenzie	A.Boal	20/05/2024			STATUS FOR APPROVAL	DRAWING No: CU2-HU00-DRG-PAS-100-0100 REVISION A May 20, 24 - 15:11:12 Name: CU2-HU00-DRG-PAS-100-0100.dwg Updated By: Caleb Van Der Reyden



**GENERAL**

- G1. THE CONTRACTOR SHALL CHECK AND CONFIRM THAT THEY ARE IN RECEIPT OF ALL THE LATEST RELEVANT DESIGN DRAWINGS, MODELS AND DOCUMENTS PRIOR TO CONSTRUCTION BECAUSE AMENDMENTS CAN OCCUR FROM TIME TO TIME.
- G2. THE CIVIL WORKS DESIGN DRAWINGS ARE TO BE READ IN CONJUNCTION WITH AND CARRIED OUT IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION WHICH IN THIS CASE IS THE QLD DEPARTMENT OF TRANSPORT AND MAIN ROADS (TMR) SUITE OF STANDARD CONSTRUCTION SPECIFICATIONS. THE REASON FOR THIS IS THE WIDESPREAD KNOWLEDGE OF THESE SPECIFICATIONS AMONG THE QLD INDUSTRY.
- G3. WHERE CERTAIN ASPECTS OF THE TMR SPECIFICATION METHODS AND TESTING IS CONSIDERED EXCESSIVELY ONEROUS DUE TO THEM BEING FOR PERMANENT WORKS ON ROAD AND HIGHWAY CONSTRUCTION, THE UGL/CPB JV (JV) SUPERVISOR MAY MAKE REASONABLE SUGGESTED CHANGES FOR REVIEW AND APPROVAL BY THE CERTIFYING ENGINEER BY WAY OF AN ITP WITH ACCOMPANYING JUSTIFICATION MEMO OR SUITABLE CORRESPONDENCE HIGHLIGHTING THE REASONS FOR THE SUGGESTED ALTERATIONS. ALTERNATIVE SPECIFICATIONS TO REVIEW INCLUDE THE FAR NORTH QUEENSLAND REGIONAL ORGANISATION OF COUNCILS (FNQROC) DEVELOPMENT MANUAL SPECIFICATIONS.
- G4. THE CERTIFYING ENGINEER (REGISTERED PROFESSIONAL ENGINEER QLD - RPEQ) IS THE PERSON RESPONSIBLE FOR THE DESIGN AND OR THE ENGINEER RESPONSIBLE FOR CERTIFYING THAT THE INSTALLATIONS HAVE MET THE DESIGN INTENT.
- G5. THE JV SUPERVISOR IS THE SITE SENIOR PROJECT ENGINEER OR EQUIVALENT.
- G6. A SUITE OF INSPECTION AND TEST PLANS (ITPS) SHALL BE DEVELOPED BY THE CONTRACTOR TO SUPPORT THE TESTING REGIME OF ALL MATERIALS AND WORKS CARRIED OUT. THE ITP'S SHALL BE REVIEWED AND APPROVED BY THE CERTIFYING ENGINEER.
- G7. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL NEARBY SERVICES ON SITE PRIOR TO COMMENCING WORKS. IF SHOWN ON THE DESIGN DRAWINGS, THE EXISTING SERVICES ARE TO BE CONSIDERED INDICATIVE ONLY. VERIFICATION THAT THE CONTRACTOR HAS LOCATED AND IDENTIFIED SERVICES PRIOR TO WORKS SHALL BE PROVIDED TO THE JV'S SITE SUPERVISOR PRIOR TO ANY WORKS COMMENCING. WHERE ANY SERVICES ARE LOCATED THAT NEED TO BE PROTECTED OR RELOCATED, THE CONTRACTOR SHALL ADVISE THE JV SUPERVISOR AT THE EARLIEST OPPORTUNITY FOR THE PLAN OF APPROACH. ANY DAMAGED OR IMPACTED SERVICES SHALL BE REMEDIED AND RECTIFIED BY THE CONTRACTOR TO THE SATISFACTION OF THE JV SUPERVISOR AS A MATTER OF URGENCY.
- G8. THE CONTRACTOR SHALL WORK IN ACCORDANCE WITH THE APPROVED CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN, INCLUDING STORMWATER MANAGEMENT, EROSION AND SEDIMENT CONTROL PLAN AND FLORA/FAUNA MANAGEMENT PLAN AMONG OTHER MANAGEMENT PLANS THE JV MAY STIPULATE.
- G9. THE CONTRACTOR SHALL ENSURE APPROPRIATE VEHICLE AND PEDESTRIAN TRAFFIC CONTROLS ARE IN PLACE AS DEVISED BY A SUITABLY QUALIFIED AND EXPERIENCED PERSON. THE TRAFFIC MANAGEMENT PLAN SHALL BE REVIEWED AND APPROVED BY THE JV SUPERVISOR PRIOR TO WORKS COMMENCING.
- G10. THE CONTRACTOR SHALL ENSURE ADEQUATE SURVEY SETOUT CONTROL IS CARRIED OUT AND CONFIRM BENCHMARKS AND PEGS AND ADVISE THE JV SUPERVISOR OF ANY DISCREPANCIES AS THEY ARISE.
- G11. THE CONTRACTOR SHALL ENSURE ADEQUATE WORKPLACE HEALTH AND SAFETY MEASURES AND PRACTICES ARE IN PLACE INCLUDING INDUCTIONS, SWMS AND RISK ASSESSMENTS WITH HAZARDS AND RISKS IDENTIFIED AND MITIGATIONS PUT IN PLACE.
- G12. ANY TEMPORARY WORKS INSTALLED BY THE CONTRACTOR (SIGNS, DIVERSION DRAINS, SEDIMENT FENCES AND THE LIKE) SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE PRIOR TO PROJECT COMPLETION.
- G13. TOPOGRAPHIC SURVEY IS FILE "402736 - SURVEY GROUND REV B", BY VERIS SURVEYORS. NOTE THAT THIS SURVEY IS TO BE SUPERSEDED SOON BY UPDATED SURVEY THAT WILL BE PROVIDED.
- G14. HORIZONTAL DATUM IS GDA2020.
- G15. VERTICAL HEIGHT DATUM IS AUSTRALIAN HEIGHT DATUM (AHD)
- G16. ALL DIMENSIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- G17. ALL IMPORTED EARTHWORKS, PAVEMENTS AND GROUND COVER REHABILITATION RELATED MATERIALS SHALL BE OBTAINED FROM REPUTABLE COMMERCIAL SOURCES. ALL EXTERNALLY SOURCED MATERIALS SHALL BE ACCOMPANIED BY QUALITY CERTIFICATES INCLUDING CONFIRMATION THAT SUCH MATERIALS ARE FREE FROM WEEDS, SEEDS AND CONTAMINATION.
- G18. THE PROPERTY BOUNDARIES SHOWN ARE THE DCDB AND THESE ARE BEING USED AS THE LAWFUL PROPERTY EXTENTS. SEPERATE CADASTRAL SURVEY HAS NOT BEEN CARRIED OUT.
- G19. NO WORKS ARE PERMITTED WITHIN 25m OF THE MAPPED WATERCOURSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ENSURE THIS AREA IS PROTECTED AND DEMARCATED AS A "NO-GO ZONE". THE EXPECTATION IS AT THE WATERCOURSE CROSSING IF APPROVED. SUBJECT TO WATERCOURSE CROSSING APPROVAL CONDITIONS.
- G20. ALL CUT / FILL VOLUMES ARE SOLID VOLUMES ONLY. NO BULKING FACTORS HAVE BEEN ALLOWED FOR.

**EARTHWORKS**

- E1. BULK EARTHWORKS SHALL BE CARRIED OUT IN GENERAL ACCORDANCE WITH TMR SPECIFICATION MRTS04 - GENERAL EARTHWORKS AND AS 3798 - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. REFER ALSO TO GENERAL NOTE G3.
- E2. CLEARING TO EXTEND 1m PAST EARTHWORKS DESIGN EXTENTS AND SHALL NOT DISTURB EXISTING STRUCTURES SUCH AS FENCES.
- E3. TREES, SHRUBS AND ROOTS TO BE CLEARED AND GRUBBED TO A DEPTH OF 300mm BELOW SUBGRADE LEVELS. CLEARED AND GRUBBED MATERIAL IS CONSIDERED UNSUITABLE FOR EARTHWORKS AND SHALL BE STOCKPILED ON SITE OR DISPOSED.
- E4. UNDERTAKE 'LEVEL 1' INSPECTION AND TESTING AS DETAILED IN AS 3798 (2007) WHERE NEW FILL IS TO SUPPORT ON-GROUND SLABS AND/OR PAVEMENTS AND/OR STRUCTURAL COMPONENTS.
- E5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT ANY NECESSARY TEMPORARY STORMWATER DIVERSIONS INCLUDING DESIGN THEREOF AS REQUIRED TO FACILITATE SAFE AND EFFECTIVE CONSTRUCTION STAGING PROGRESS.
- E6. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DEWATERING AND DRYING BACK ANY GROUNDWATER AND OR RAINWATER AFFECTED ZONES OF EARTHWORKS AND PAVEMENTS WHILE ENSURING NO SEDIMENT LADEN RUNOFF LEAVES SITE OR ENTERS WATERWAYS.
- E7. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT BY DOUGLAS PARTNERS NAMEDLY:
  - "REPORT ON GEOTECHNICAL INVESTIGATION COPPERSTRING 2032 PROJECT - PROPOSED HUGHENDEN CAMP SITE"; (FILENAME "200446.01.R.008.REV0").
- E8. IN-SITU SUBGRADES, INCLUDING SUBGRADE REPLACEMENT SHALL BE TRIMMED, RIPPED AND RECOMPACTED TO A DEPTH OF 150MM TO 97% STANDARD COMPACTION.
- E9. EARTHWORKS BACKFILL MATERIAL SHALL BE SELECTIVELY SOURCED FROM THE EXCAVATED MATERIALS OR OTHERWISE IMPORTED AND PLACED IN 300MM MAXIMUM LOOSE LAYERS COMPACTED TO 98% STANDARD COMPACTION AT +/- 2% OMC. OVERCOMPACTION SHALL BE AVOIDED.

- E10. AFTER TOPSOIL REMOVAL, ROLL THE EXPOSED SUBGRADE WITH A MINIMUM OF SIX PASSES OF A 12 T SMOOTH DRUM ROLLER, AND THEN CONDUCT A FINAL TEST ROLL TO DETECT ANY REMAINING DELETERIOUS ZONES, WHICH SHOULD BE EXCAVATED AND REPLACED WITH COMPACTED SELECT FILL AS APPROPRIATE.
- E11. DEEP EXCAVATIONS AND WATER BODIES SUCH AS ON-SITE SEDIMENT BASINS OR DETENTION BASINS SHALL BE MANAGED IN A SAFE MANNER INCLUDING CONSIDERATION OF PERSONNEL EXCLUSION ZONE FENCING, SIGNAGE AND INDUCTIONS.
- E12. GRASS SEEDING SHALL BE APPLIED WITH SEED MIX THAT IS SUITABLE FOR THE LOCAL CLIMATE. IRRIGATION AND MAINTENANCE IS TO BE CARRIED OUT FOR THE CONTRACTED MAINTENANCE PERIOD.
- E13. REMOVE TOPSOIL TO A DEPTH OF AT LEAST 75mm

**PAVEMENT**

- P1. PAVEMENT MATERIALS AND WORKS SHALL BE CARRIED OUT IN GENERAL ACCORDANCE WITH TMR SPECIFICATION MRTS05 - UNBOUND PAVEMENTS. REFER ALSO TO GENERAL NOTE G3.
- P2. PRIOR TO PLACING PAVEMENT MATERIALS, SUBGRADES SHALL BE APPROPRIATELY MOISTURE CONDITIONED AND TRIMMED TO THE CORRECT LEVELS AND GRADES AND COMPACTED IN ACCORDANCE WITH THE EARTHWORKS NOTES AND SPECIFICATIONS LISTED.
- P3. PAVEMENT MATERIALS SHALL BE COMMERCIALY SOURCED MATERIALS COMPLYING WITH TMR MATERIAL SPECIFICATIONS OR AS OTHERWISE APPROVED BY THE CERTIFYING ENGINEER.
- P4. PAVEMENTS SHALL BE INSTALLED TO THE TYPES THICKNESSES AND LEVELS AS DEPICTED ON THE APPROVED DRAWINGS.
- P5. PAVEMENT MATERIALS SHALL BE COMPACTED TO 100% STANDARD COMPACTION AT +/- 2% OMC.
- P6. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO PREVENT EROSION OF PAVEMENT MATERIALS DURING CONSTRUCTION.
- P7. THE CONTRACTOR SHALL MAINTAIN THE ROAD / PAVEMENT SURFACE IN A SOUND AND STABLE CONDITION DURING CONSTRUCTION AND RECTIFY DAMAGED SECTIONS AS PER THE SPECIFICATION PRIOR TO WORKS HANDOVER.
- P8. PAVEMENT MATERIALS SHALL BE SUPPLIED WITH MATERIAL QUALITY SHEETS AND DELIVERY DOCKETS CONFIRMING THE COMPLIANCE OF THE SUPPLIED MATERIALS AT THE RATE LISTED IN THE CIVIL SPECIFICATION AND ITP.
- P9. PLACED AND COMPACTED PAVEMENT MATERIALS SHALL BE TESTED AS PER THE REQUIREMENTS OF THE PAVEMENT SPECIFICATION.
- P10. BITUMEN AND ASPHALTIC CONCRETE SEALS SHALL BE BOTH DESIGNED, SUPPLIED AND INSTALLED BY THE CONTRACTOR TO THE NOMINATED SEAL TYPE AND THICKNESS DEPICTED ON THE DRAWINGS.

**STORMWATER DRAINAGE**

- S1. STORMWATER DRIANAGE WORKS SHALL BE IN GENERAL ACCORDANCE WITH TMR SPECIFICATION MRTS03 -DRAINAGE. REFER ALSO TO GENERAL NOTE G3.
- S2. ALL STORMWATER DRAINAGE PRODUCTS SUCH AS PIPES, CULVERTS AND GRATES, SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- S3. STORMWATER CULVERTS AND PIPES SHALL BE INSTALLED AND BACKFILLED TO THE RECOMMENDATIONS OF THE MANUFACTURER AND IN LINE WITH AUSTRALIAN STANDARDS.
- S4. BEDDING AND BACKFILL MATERIAL SHALL COMPLY WITH THE SPECIFICATION, INCLUDING FOR TESTING AND QUALITY CONTROL REQUIREMENTS.
- S5. MINIMUM PIPE AND CULVERT GRADES SHALL BE 0.5% MINIMUM UNLESS OTHERWISE NOTED.
- S6. ALL PITS AND PIPES/CULVERTS SHALL BE CONSTRUCTED TO THE LINE AND LEVELS AS DEPICTED ON THE PROJECT DRAWINGS.
- S7. WHERE ANY TRENCHES ARE DEEPER THAN 1.5M A RISK ASSESSMENT MUST BE UNDERTAKEN AND APPROPRIATE CONTROLS PUT IN PLACE SUCH AS BARRICADING, BATTERING, BENCHING AND OR SHORING AS A MINIMUM.
- S8. WHERE SPECIFIED, ROCK PROTECTION WITH GEOFABRIC UNDERLAY SHALL BE PLACED AS SCOUR AND VELOCITY CONTROL.
- S9. EARTHEN STORMWATER SWALES AND BUNDES SHALL BE LINED WITH NON-DISPERSIVE CLAY MATERIALS TO 150mm THICK MINIMUM
- S10. OPEN CHANNEL EARTHEN DRAINS BUNDS AND SWALES SHALL BE CONSTRUCTED TO THE LINES AND DIMENSIONS AS DEPICTED ON THE PROJECT DRAWINGS AND DTM.

**EROSION AND SEDIMENT CONTROL (ESC)**

- ESC1. EROSION AND SEDIMENT CONTROLS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN (DOCUMENT NUMBER "CU2-HU00-REP-PAS-600-0002" BY SEEC) WHICH INCLUDES SUPPLY, INSTALLATION, MONITORING AND MAINTENANCE OF REQUIRED MEASURES.
- ESC2. ESC MEASURES ARE GENERALLY BASED ON THE INTERNATIONAL EROSION CONTROL ASSOCIATION'S (IECA) BEST PRACTICES GUIDE. TYPICAL DETAILS AND MANAGEMENT METHODS ARE ALSO AVAILABLE FROM THEIR WEBSITE (HTTPS://WWW.AUSTIECA.COM.AU/PUBLICATIONS/BEST-PRACTICE-EROSION-AND-SEDIMENT-CONTROL-BPESC-DOCUMENT).
- ESC3. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL ESC MEASURES AS MAY BE REQUIRED FROM TIME TO TIME TO ENSURE ADEQUATE CONTROL OF SEDIMENTATION AND RUNOFF WATER QUALITY.
- ESC4. THE EXACT SETOUT OF ESC CONTROLS CAN BE VARIED ON SITE TO SUIT CONSTRUCTION METHODOLOGIES, STAGING AND CONSTRAINTS WITH THE APPROVAL OF THE JV SUPERVISOR IN CONSULTATION WITH THE CERTIFYING ENGINEER.
- ESC5. EXCLUSIONS ZONES SHALL BE ESTABLISHED BY THE CONTRACTOR TO ENSURE NO CONSTRUCTION ACTIVITIES OCCUR IN ZONES NOTED AS EXCLUSIONS INCLUDING, BUT NOT LIMITED TO THE INTERNAL WATERWAY CORRIDOR AS DEPICTED ON THE DRAWINGS.


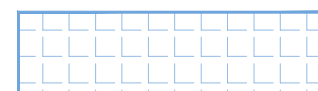












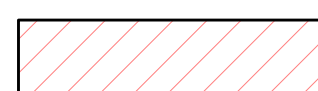
**CONSTRUCTION SETOUT**

- CS1. SETOUT OF BULK EARTHWORKS, ROADS AND DRAINAGE SHALL BE DERIVED FROM THE DIGITAL TERRAIN MODEL (DTM) FILE/S UNLESS SPECIFIC SETOUT DETAILS ARE PROVIDED ON THE DRAWINGS. THE DIGITAL MODEL FILES ARE AS FOLLOWS:
  - BULK EARTHWORKS - CU2-HU00-DRG-PAS-100-950-A.DWG
- CS2. THE ISSUED FOR CONSTRUCTION DRAWINGS TAKE PRECEDENCE OVER DTM'S AND THE CONTRACTOR SHALL VERIFY THE SETOUT DETAILS PRIOR TO COMMENCEMENT AND ENSURE THE DIGITAL DATA RECEIVED IS CURRENT AND REPRESENTATIVE OF THE LATEST DRAWINGS. THE CONTRACTOR SHALL ALSO ENSURE THE LATEST APPROVED DRAWINGS ARE BEING USED.


**DEPARTMENT OF AGRICULTURE AND FISHERIES - WATERCOURSE**

- DAF1. THERE IS AN EXISTING WATERCOURSE ON SITE DEFINED UNDER THE FISHERIES ACT 1994 AND IT IS CLASSIFIED AS A LOW IMPACT (GREEN) WATERWAY. THIS IS TO BE CONSIDERED A "NO-GO" ZONE EXCEPT AT THE PROPOSED WATERWAY CROSSING WHICH IS TO BE ASSESSED.
- DAF2. ALL WORKS WITHIN THE WATERCOURSE ARE TO COMPLY WITH THE "ACCEPTED DEVELOPMENT REQUIREMENTS FOR OPERATIONAL WORK THAT IS CONSTRUCTING OR RAISING WATERWAY BARRIER WORKS" AND FOR THE WATERCOURSE CROSSING THIS INVOLVES SECTION 5.1 (CULVERT CROSSINGS) OR SECTION 5.2 (BED LEVEL CROSSINGS)
- DAF3. UNLESS APPROVED OTHERWISE, THE DURATION OF WORKS SHALL BE COMMENCED AND FINISHED WITHIN A MAXIMUM TIME OF 180 CALENDAR DAYS. INSTREAM SEDIMENT AND EROSION CONTROL MEASURES ARE TO BE REMOVED WITHIN THIS TIMEFRAME.

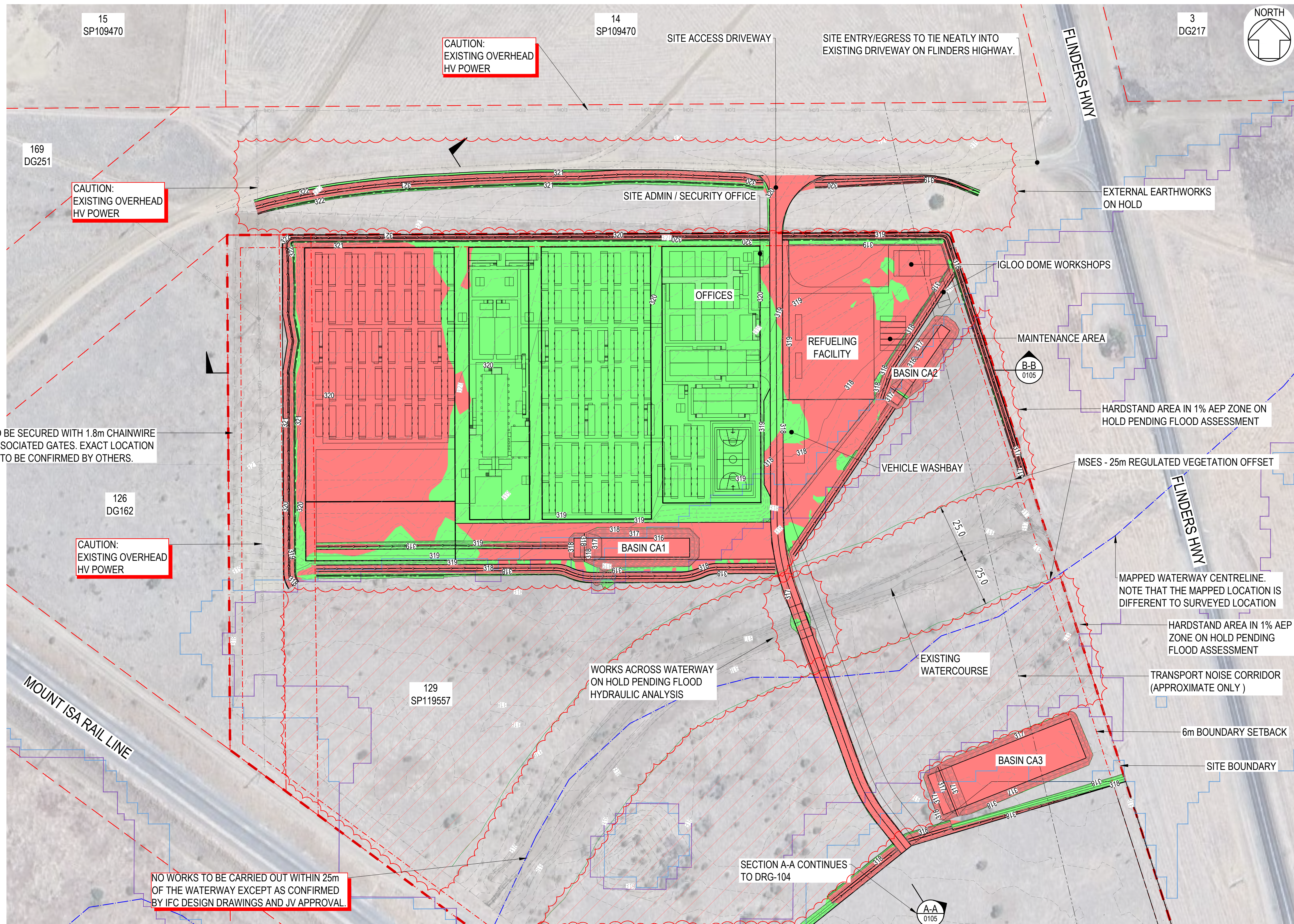
**LEGEND**

	LAND ACQUISITION AREA
	FLOOD EXTENT - 1% AEP (HUGHENDEN CAMP FLOOD IMPACT ASSESSMENT)
	FLOOD EXTENT - 20% AEP (HUGHENDEN CAMP FLOOD IMPACT ASSESSMENT)
	DCDB CADASTRE
	BOUNDARY SETBACKS
	WATERCOURSE EDGE- DIGITISED (QUEENSLAND GOVERNMENT SPATIAL CATALOG)
	MSES - REGULATED VEGETATION (INTERSECTING A WATERCOURSE) SETBACK 25m EITHER SIDE (CONSIDERED THIS AS A NO-GO ZONE. REFER NOTE G19.)
	TRANSPORT NOISE CORRIDOR (APPROXIMATE)
	EXISTING OVERHEAD ELECTRICAL LINE
	EXISTING WATER
	EXISTING ROAD EDGE
	EXISTING FENCE
	EARTHWORKS CUT
	EARTHWORKS FILL
	POTENTIAL EARTHWORKS CUT - PAVEMENT BOXOUT (ON HOLD)

**REFERENCE FILES ATTACHED:**

DRAWING REVISION HISTORY						SCALE (PLOTTED FULL SIZE)	N.T.S.	SHEET SIZE	A1	CLIENT	UGL / CPB JV	DRAWING TITLE	CIVIL							
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE	APPROVED	ORIGINAL COPY ON FILE "e" SIGNED BY	pitt&sherry	pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309	CONTRACT TITLE	COPPERSTRING 2032		NOTES AND LEGEND							
										HUGHENDEN CAMP - DETAILED DESIGN		DATUMS:	GDA20-MGA55	CLIENT No.	CU2-HU00					
										STATUS	FOR APPROVAL		DRAWING No.	CU2-HU00-DRG-PAS-100-0101	REVISION	A				
A	ISSUE FOR APPROVAL	C.Vandermeijden	D.McKenzie	A.Bool	20/05/2024	SIGNED				DATE	© 2024 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.									
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FOR CONTINUATION REFER TO DRAWING DRG-0104

- NOTES:
- FOR GENERAL NOTES REFER TO DRAWING CU2-HU00-DRG-PAS-100-0101
  - FOR SEDIMENT BASIN TYPICAL DETAILS REFER TO DRAWING XXX



BASE SURVEY SUPPLIED BY:  
VERIS  
SURVEYED ON: 21/03/2024  
HORIZONTAL DATUM: GDA2020  
GRID: ZONE 55  
LEVEL DATUM: AHD

TO PROTECT THE ENVIRONMENT, CLEARING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND CONFINED TO THAT REQUIRED FOR EARTHWORKS, DRAINAGE AND FENCING. EXISTING TREES, SHRUBS AND GRASSES NOT AFFECTED BY THE ABOVE WORKS SHALL BE RETAINED AND DISTURBED AS LITTLE AS POSSIBLE.

-WARNING-  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

REFERENCE FILES ATTACHED: CU2-HU00-XRF-PAS-100-1950; CU2-HU00-XRF-PAS-100-1850; CU2-HU00-XRF-PAS-100-1115; CU2-HU00-XRF-PAS-100-1155; CU2-HU00-XRF-PAS-100-1500; CU2-HU00-XRF-PAS-100-1110; CU2-HU00-XRF-PAS-100-1112; CU2-HU00-XRF-PAS-100-1120; CU2-HU00-XRF-PAS-100-1120 EX

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SCALE (PLOTTED FULL SIZE) 1:1000 SHEET SIZE A1

SCALE IN METRES - 1:1000

**pitt&sherry**

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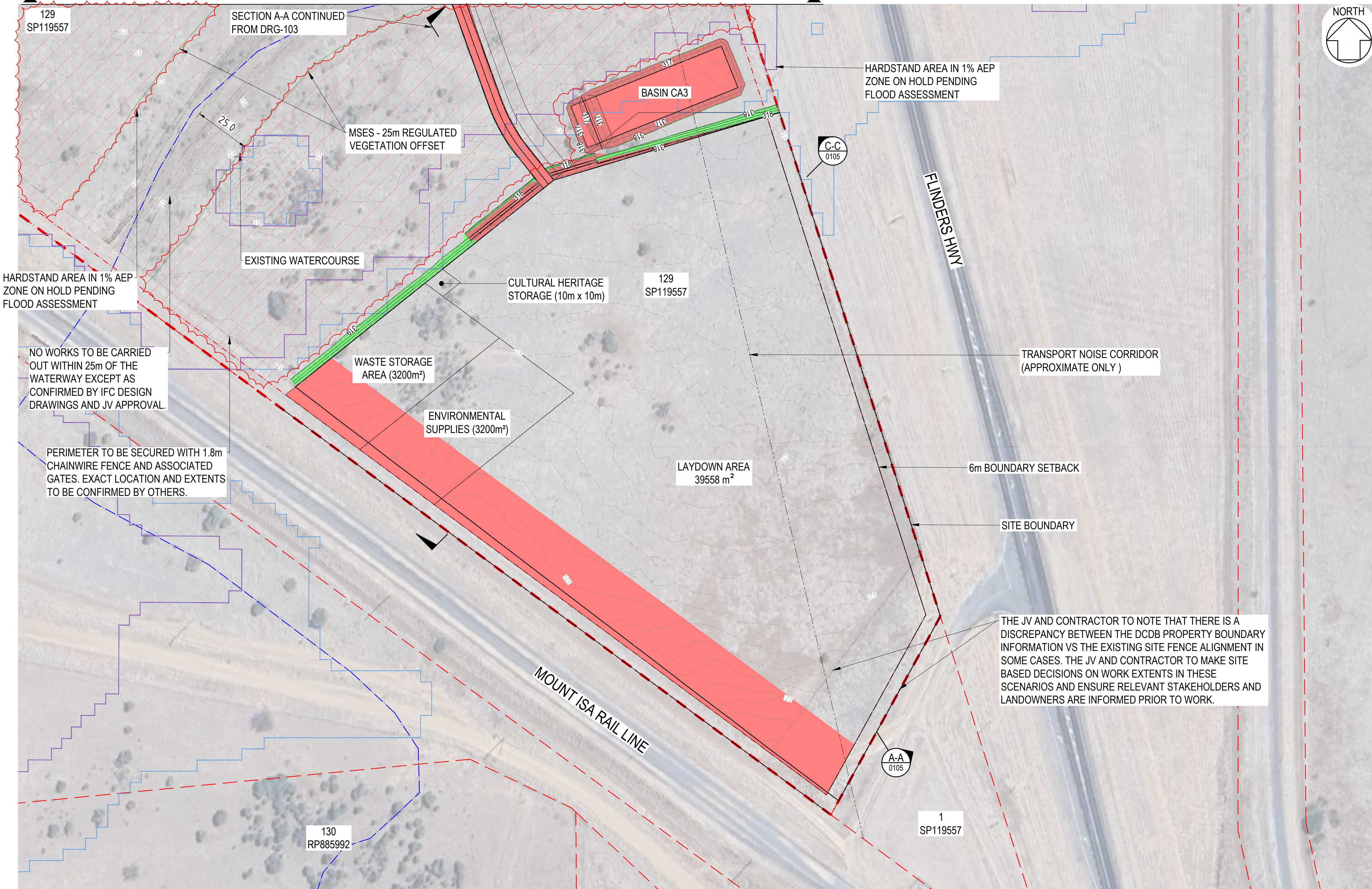
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CLIENT UGL / CPB JV  
CONTRACT TITLE COPPERSTRING 2032  
HUGHENDEN CAMP - DETAILED DESIGN  
STATUS FOR APPROVAL

DRAWING TITLE CIVIL  
BULK EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2  
DATUMS: GDA20-MGA55  
CLIENT No: CU2-HU00  
DRAWING No: CU2-HU00-DRG-PAS-100-0103  
REVISION A  
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May 20, 24 - 16:31:59 Name: CU2-HU00-DRG-PAS-100-0103-0104.dwg Updated by: Caleb van der Reyden



FOR CONTINUATION REFER TO DRAWING DRG-0103



HARDSTAND AREA IN 1% AEP ZONE ON HOLD PENDING FLOOD ASSESSMENT

NO WORKS TO BE CARRIED OUT WITHIN 25m OF THE WATERWAY EXCEPT AS CONFIRMED BY IFC DESIGN DRAWINGS AND JV APPROVAL.

PERIMETER TO BE SECURED WITH 1.8m CHAINWIRE FENCE AND ASSOCIATED GATES. EXACT LOCATION AND EXTENTS TO BE CONFIRMED BY OTHERS.

C-C 0105

A-A 0105

TRANSPORT NOISE CORRIDOR (APPROXIMATE ONLY)

6m BOUNDARY SETBACK

SITE BOUNDARY

THE JV AND CONTRACTOR TO NOTE THAT THERE IS A DISCREPANCY BETWEEN THE DCDB PROPERTY BOUNDARY INFORMATION VS THE EXISTING SITE FENCE ALIGNMENT IN SOME CASES. THE JV AND CONTRACTOR TO MAKE SITE BASED DECISIONS ON WORK EXTENTS IN THESE SCENARIOS AND ENSURE RELEVANT STAKEHOLDERS AND LANDOWNERS ARE INFORMED PRIOR TO WORK.

- NOTES:
- FOR GENERAL NOTES REFER TO DRAWING CU2-HU00-DRG-PAS-100-0101
  - FOR SEDIMENT BASIN TYPICAL DETAILS REFER TO DRAWING XXX



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SCALE IN METRES - 1:1000

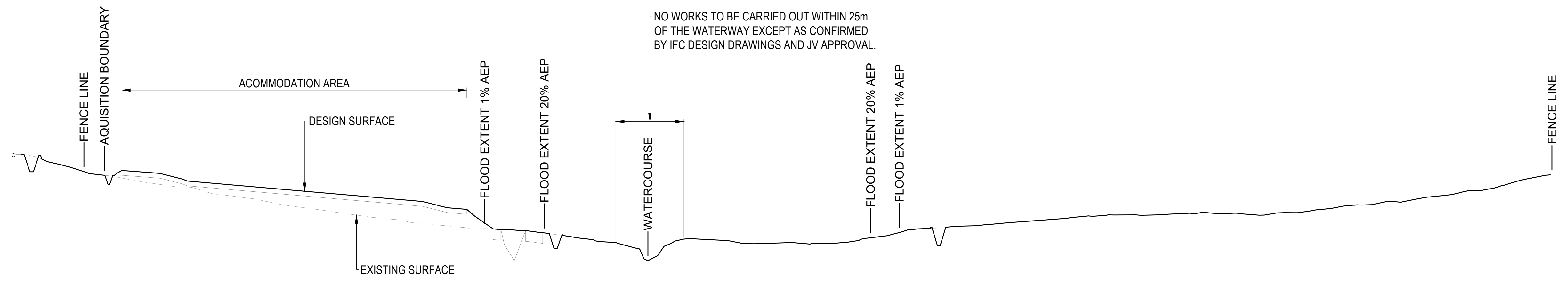
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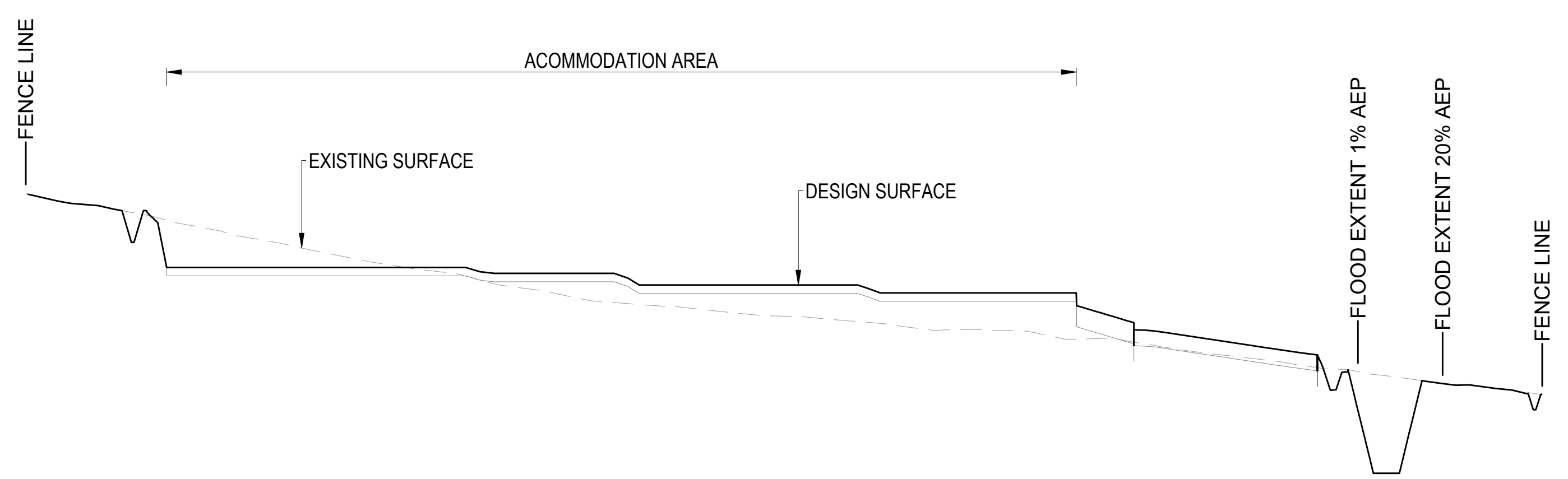
CLIENT: UGL / CPB JV  
CONTRACT TITLE: COPPERSTRING 2032 HUGHENDEN CAMP - DETAILED DESIGN  
STATUS: FOR APPROVAL

DRAWING TITLE: CIVIL BULK EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2  
DATUMS: GDA20-MGA55  
CLIENT No: CU2-HU00  
DRAWING No: CU2-HU00-DRG-PAS-100-0104  
REVISION: A  
PRINT IN COLOUR

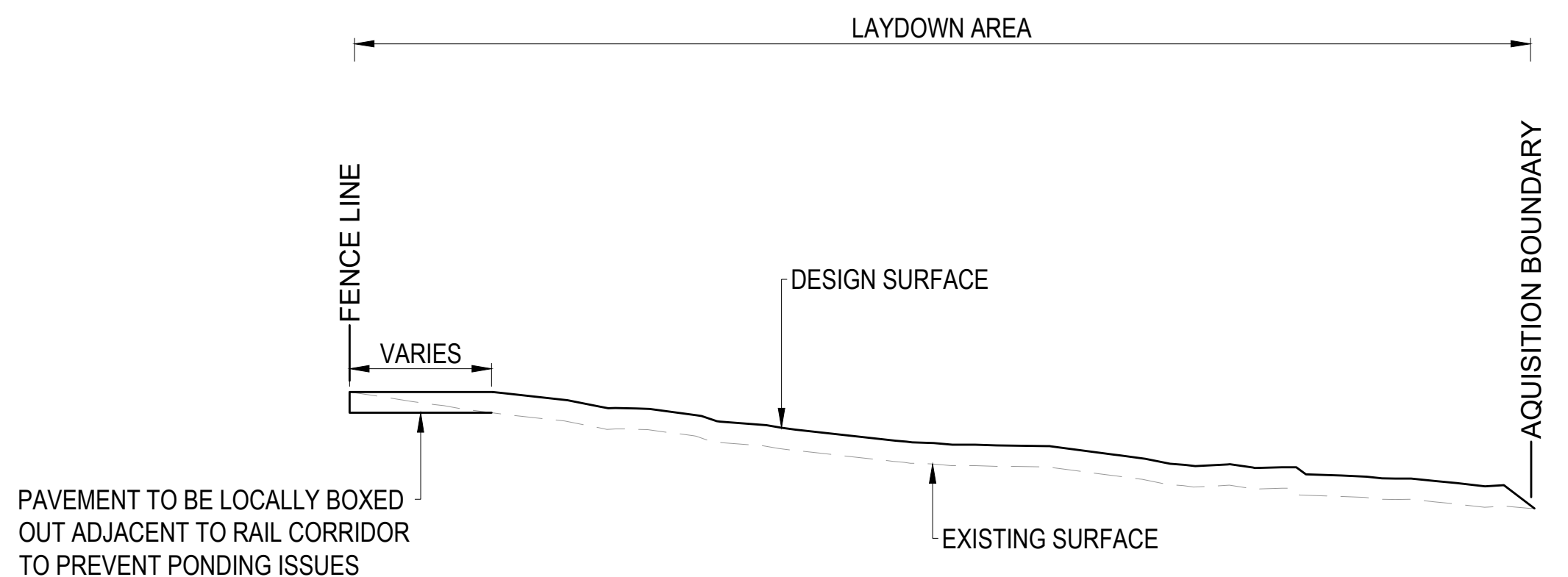




SECTION A-A  
AS SHOWN 0103-0104



SECTION B-B  
AS SHOWN 0103

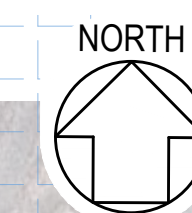
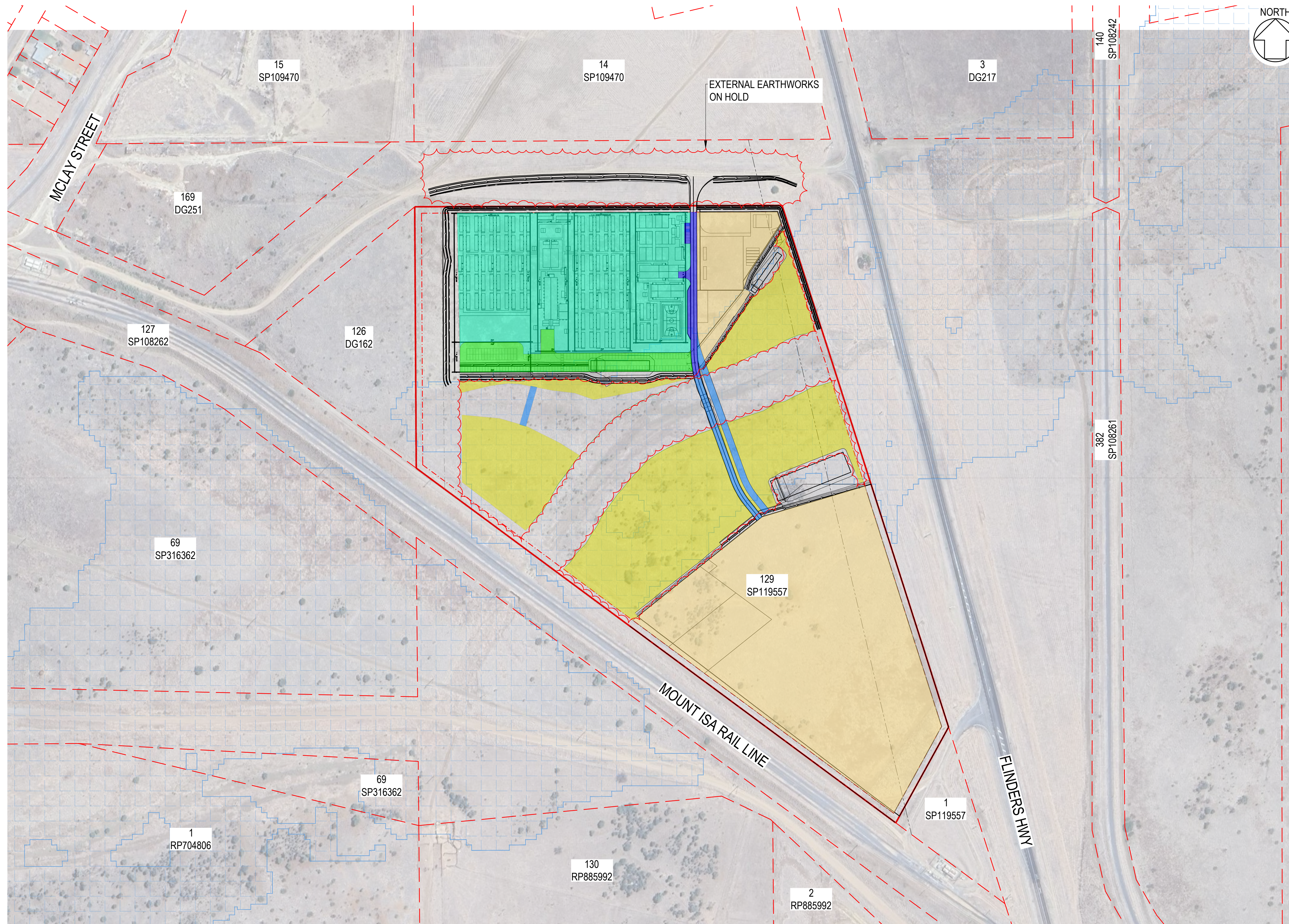


SECTION C-C  
AS SHOWN 0104

NOTES:  
1. FOR GENERAL NOTES REFER TO DRAWING CU2-HU00-DRG-PAS-100-0101

DRAWING REVISION HISTORY						APPROVED ORIGINAL COPY ON FILE "e" SIGNED BY	SCALE (PLOTTED FULL SIZE) AS SHOWN 20 0 20 40 60 80 SCALE IN METRES - 1:1000	SHEET SIZE A1	CLIENT UGL / CPB JV	DRAWING TITLE CIVIL TYPICAL SECTIONS AND DETAILS PLAN	
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE						
A	ISSUE FOR APPROVAL	C.Vandermeijden	D.McKenzie	A.Bool	20/05/2024	SIGNED	pitt&sherry pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309 © 2024 PITT & SHERRY (OPERATIONS) PTY LTD. THE DOCUMENT MAY ONLY BE USED FOR THE PURPOSE FOR WHICH IT WAS COMMISSIONED AND IN ACCORDANCE WITH THE TERMS OF ENGAGEMENT.	CONTRACT TITLE COPPERSTRING 2032 HUGHENDEN CAMP - DETAILED DESIGN	STATUS FOR APPROVAL	DATUMS: GDA20-MGA55	CLIENT No. CU2-HU00
										DRAWING No. CU2-HU00-DRG-PAS-100-0105	REVISION A





**LEGEND**

- ACCOMMODATION AREA HARDSTAND  
200mm THICK CBR 45 TYPE 2.3 ROADBASE OR EQUIVALENT
  - MAIN ENTRY ROAD  
2 COAT SPRAY SEAL (DESIGN BY CONTRACTOR)  
100mm CBR 60 TYPE 2.2 ROADBASE OR EQUIVALENT  
400mm CBR 45 TYPE 2.3 ROADBASE OR EQUIVALENT
  - WATERWAY CROSSING ROAD  
500mm TYPE 2.3 ROADBASE OR EQUIVALENT
  - MAIN CARPARK  
2 COAT SPRAY SEAL (DESIGN BY CONTRACTOR)  
100mm CBR 60 TYPE 2.2 ROADBASE OR EQUIVALENT  
340mm CBR 45 TYPE 2.3 ROADBASE OR EQUIVALENT
  - LAYDOWN HARDSTAND (1% AEP FLOOD FREE)  
375mm CBR 45 TYPE 2.3 ROADBASE OR EQUIVALENT
  - LAYDOWN HARDSTAND (1% AEP FLOODED)  
375mm CBR 45 TYPE 2.3 ROADBASE OR EQUIVALENT
- ↑ HARDSTAND AREA IN 1% AEP ZONE ON HOLD PENDING FLOOD ASSESSMENT

**DESIGN TRAFFIC**

MAIN ENTRY ROAD = 1.81x10<sup>5</sup> ESA  
 CARPARK = 4.18x10<sup>4</sup> ESA

**LAYOUT**  
SCALE 1:2000 (m)

NOTES:  
1. FOR GENERAL NOTES REFER TO DRAWING CU2-HU00-DRG-PAS-100-0101

REFERENCE FILES ATTACHED: CU2-HU00-XRF-PAS-100-1155; CU2-HU00-XRF-PAS-100-1850; CU2-HU00-XRF-PAS-100-1950; CU2-HU00-XRF-PAS-100-1115; CU2-HU00-XRF-PAS-100-1130; CU2-HU00-XRF-PAS-100-1110



BASE SURVEY SUPPLIED BY:  
VERIS  
 SURVEYED ON: 21/03/2024  
 HORIZONTAL DATUM: GDA2020  
 GRID: ZONE 55  
 LEVEL DATUM: AHD

TO PROTECT THE ENVIRONMENT, CLEARING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND CONFINED TO THAT REQUIRED FOR EARTHWORKS, DRAINAGE AND FENCING. EXISTING TREES, SHRUBS AND GRASSES NOT AFFECTED BY THE ABOVE WORKS SHALL BE RETAINED AND DISTURBED AS LITTLE AS POSSIBLE.

**-WARNING-**  
BEWARE OF UNDERGROUND SERVICES  
THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THE EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN.

DRAWING REVISION HISTORY					
No.	DESCRIPTION	DRAWN	DESIGNED	REVIEWED	DATE
A	ISSUE FOR APPROVAL	C.Vanderweyden	D.McKenzie	A.Boal	20/05/2024

SCALE (PLOTTED FULL SIZE)	1:2000	SHEET SIZE	A1
<p>SCALE IN METRES - 1:2000</p>			

**pitt&sherry**  
 pittsh.com.au Phone 1300 748 874 ABN 67 140 184 309  
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CLIENT	UGL / CPB JV
CONTRACT TITLE	COPPERSTRING 2032 HUGHENDEN CAMP - DETAILED DESIGN
STATUS	FOR APPROVAL

DRAWING TITLE		CIVIL PAVEMENT PLAN	
DATUMS:	GDA20-MGA55	CLIENT No.	CU2-HU00
DRAWING No.	CU2-HU00-DRG-PAS-100-0111	REVISION	A
May 20, 24 - 17:30:30 Name: CU2-HU00-DRG-PAS-100-0111.dwg Updated by: Caleb Van Der Keyden		PRINT IN COLOUR	