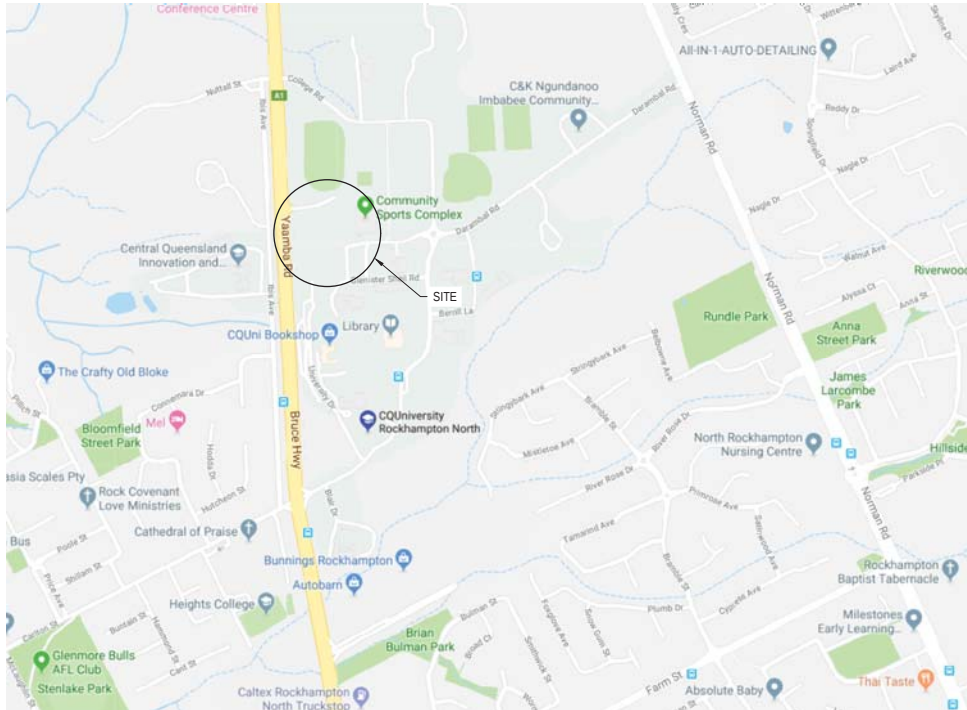


DATE PLOTTED: 15 October 2019 3:30 PM BY: ANNE WILLET

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV2019/1078
Date: 20 December 2019



LOCALITY PLAN
N.T.S.

SCHEDULE OF DRAWINGS	
DRAWING No.	DESCRIPTION
R2019052-CI-0100	COVER SHEET
R2019052-CI-0101	LOCALITY PLAN, NOTES AND SCHEDULE OF DRAWINGS
R2019052-CI-0102	EXISTING SITE PLAN
R2019052-CI-0103	TYPICAL SECTIONS
R2019052-CI-0104	TYPICAL DETAILS & NOTES
R2019052-CI-0105	CATCHMENT PLAN
R2019052-CI-0106	CALCULATIONS TABLE
R2019052-CI-0120	OVERALL LAYOUT PLAN
R2019052-CI-0121	LAYOUT DETAIL PLAN SHEET 1 OF 5
R2019052-CI-0122	LAYOUT DETAIL PLAN SHEET 2 OF 5
R2019052-CI-0123	LAYOUT DETAIL PLAN SHEET 3 OF 5
R2019052-CI-0124	LAYOUT DETAIL PLAN SHEET 4 OF 5
R2019052-CI-0125	LAYOUT DETAIL PLAN SHEET 5 OF 5
R2019052-CI-0130	FUTURE LAYOUT PLAN
R2019052-CI-0131	FUTURE LAYOUT PLAN DETAIL
R2019052-CI-0140	Q10 LONGITUDINAL SECTION 1 SHEET 1 OF 6
R2019052-CI-0141	Q10 LONGITUDINAL SECTION 2 SHEET 2 OF 6
R2019052-CI-0142	Q10 LONGITUDINAL SECTION 3 SHEET 3 OF 6
R2019052-CI-0143	Q10 LONGITUDINAL SECTION 4 SHEET 4 OF 6
R2019052-CI-0144	Q10 LONGITUDINAL SECTION 5 SHEET 5 OF 6
R2019052-CI-0145	Q10 LONGITUDINAL SECTION 6 SHEET 6 OF 6
R2019052-CI-0150	SEDIMENT AND EROSION CONTROL PLAN
R2019052-CI-0160	SAFETY IN DESIGN

CMDG STANDARD REFERENCE DRAWINGS	
DRAWING No.	DESCRIPTION
CMDG-D-022	FIELD INLET DETAILS
CMDG-D-030	ACCESS CHAMBER DETAILS - DIA 1050 TO 2100
CMDG-D-031	ACCESS CHAMBER ROOF SLAB - DIA 1050 2100
CMDG-D-040	SUBSOIL DRAINAGE
CMDG-D-050	SEDIMENT CONTROL DEVICES - ENTRY EXIT SEDIMENT TRAP
CMDG-D-051	SEDIMENT CONTROL DEVICES - KERB AND FIELD INLETS - CHECK DAMS AND STRAW BALES
CMDG-D-010	EXCAVATION, BEDDING AND BACKFILLING OF CONCRETE/REINFORCED FIBRE DRAINAGE PIPES

TELECOMMUNICATIONS SERVICE PROVIDERS



NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

ENERGY SERVICE PROVIDERS



NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

Manual of Uniform Traffic Control Devices



NOTE: ALL SIGNS & LINE MARKING TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PLEASE CONTACT THE CRC'S ARBORIST PRIOR TO ANY CONSTRUCTION FOR ADVICE ON TREE ROOT PROTECTION IN THE VICINITY OF THE WORKS TO BE CARRIED OUT.



SERVICE LOCATIONS

It is the responsibility of the Foreman to contact the relevant service authorities to ascertain the exact location of services prior to construction.



Personal Protective Equipment



Rev.	Date	Description	Des.	Verif.	Appd.
A	15/10/2019	FOR CONSTRUCTION	DSA	CGF	CH
1	27/09/2019	PRELIMINARY APPROVAL	DSA	CGF	

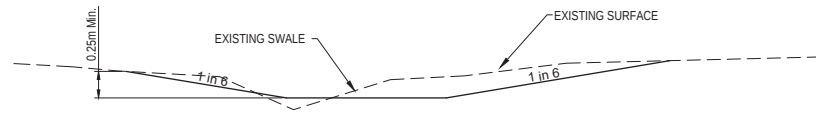
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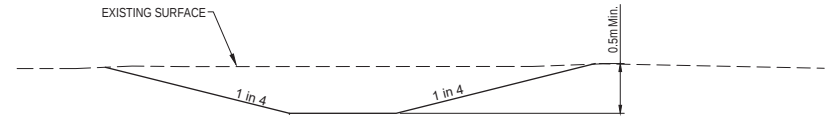
Drawn D.AINSIE Checked D.AINSIE Designed D.AINSIE Verified C.FRANKLIN Approved C.HARTY	Date 26/09/2019 Date 27/09/2019 Date 20/09/2019 Date 27/09/2019 Date 15/10/2019	Client CENTRAL QLD UNIVERSITY Project CQUCNT-19-34-DFM NORTH ROCKHAMPTON BUILDING 81 STORMWATER MITIGATION Title LOCALITY PLAN, NOTES AND SCHEDULE OF DRAWINGS	Status FOR CONSTRUCTION Drawing Number R2019052-CI-0101 Revision A
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Status			
FOR CONSTRUCTION			
Datum	GRID	Scale	Size
AHD		AS SHOWN	
Drawing Number			
R2019052-CI-0102			



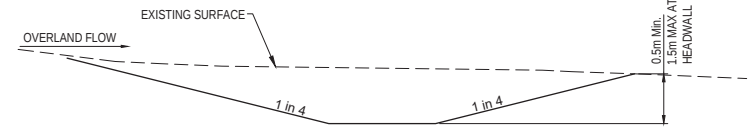
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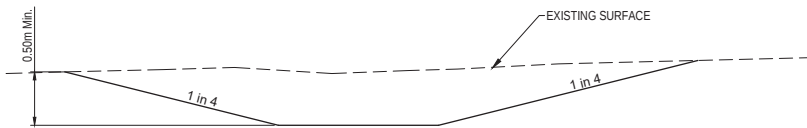
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SECTION 3
SCALE 1:50



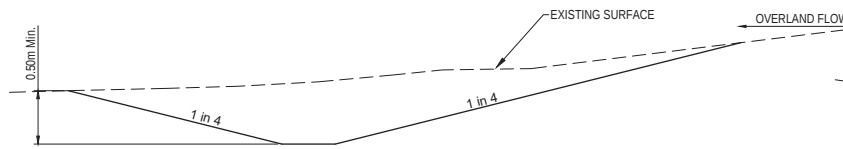
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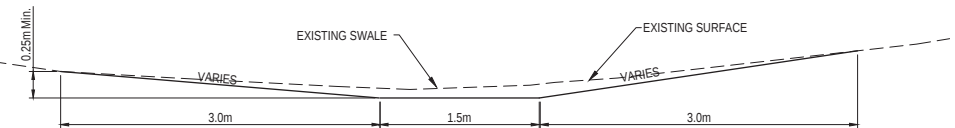
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SECTION 6
SCALE 1:50



SECTION 1
SCALE 1:50



SECTION 5
SCALE 1:50

PLANS AND DOCUMENTS
referred to in the PDA
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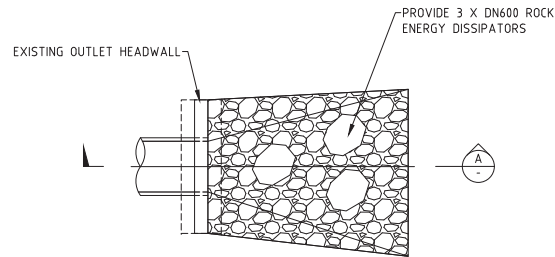
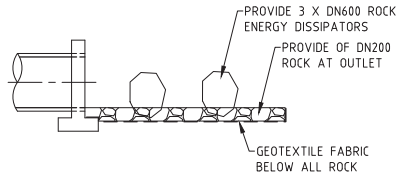
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Checked	D.AINSIE	Date	27/09/2019
Designed	D.AINSIE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019

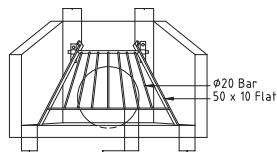
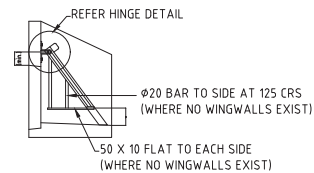
Client
CENTRAL QLD UNIVERSITY
Project
CQCNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
STORMWATER MITIGATION

TYPICAL SECTIONS

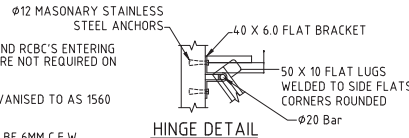
Status				
FOR CONSTRUCTION				
Datum	GRID	Scale	Size	
AHD		AS SHOWN	A1	
Drawing Number				Revision
R2019052-CI-0103				A

PLAN
NTS**OUTLET ROCK PROTECTION**

N.T.S.

**ENTRY GATE****SECTION****ENTRY GATE NOTES:**

1. ENTRY GATES ARE REQUIRED ON ALL PIPES AND RCBC'S ENTERING THE UNDERGROUND DRAINAGE SYSTEM. GATES ARE NOT REQUIRED ON CULVERTS UNDER ROADWAYS.
2. ALL STEEL WORK SHALL BE HOT DIPPED GALVANISED TO AS 1560 AFTER FABRICATION.
3. ALL WELDS SHALL CONFORM TO AS 1554 AND BE 6MM C.F.W. UNLESS NOTED OTHERWISE.
4. SIDE BAR PROTECTION TO BE PROVIDED ONLY TO HEADWALLS WITH NO WINGWALLS.
5. ALL DIMENSIONS ARE IN MILLIMETRES.

**HINGE DETAIL**

LENGTH OF LUGS SHALL BE SUCH THAT GRATE IS RESTRICTED IN SWING TO 45° ABOVE HORIZONTAL POSITION

CHILDPROOF GRATE

N.T.S.

ROCK OUTLET PROTECTION DETAILS

CULVERT ID	DIAMETER (mm)	VELOCITY (m/s)	FLOW m³/s	L (M)	W1 (M)	W2 (M)	d50 ROCK SIZE (mm)
9/1	900	0.6	1.1	7.2	1.2	4.1	200
5/5	900	1.44	1.0	5.4	1.2	3.4	200

ROADWORKS NOTES :

- ROAD PAVEMENTS SHALL BE PLACED AND COMPACTED TO ACHIEVE A MINIMUM DRY DENSITY RATIO (M.D.D.R.) OF 100% STANDARD.
- DRIVEWAYS TO BE CONSTRUCTED TO CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES SPECIFICATIONS.
- DRIVEWAY LOCATION TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

EXISTING SERVICES NOTES:

- SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY, FROM AS CONSTRUCTED SURVEY AND FROM 'DIAL BEFORE YOU DIG' SEARCHES. THERE MAY BE MORE SERVICES NOT SHOWN ON THESE DRAWINGS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE RELEVANT SERVICE UTILITY PROVIDERS TO CONFIRM THE LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS.
- ANY DAMAGE TO SERVICES SHALL BE REPAIRED BY THE CONTRACTOR OR THE RELEVANT AUTHORITY AT THE CONTRACTOR'S EXPENSE.

EARTHWORKS NOTES:

- EARTHWORKS SPOIL IS TO BE STOCKPILED OR REMOVED OFFSITE AS DIRECTED BY THE ADMINISTRATOR;
- TOPSOIL SHALL BE STRIPPED TO A DEPTH OF 100mm AND STOCKPILED FOR LATER RE-SPREADING;
- ONLY AREAS REQUIRING FILLING AND / OR ROAD WORKS SHALL BE STRIPPED. ALL OTHER VEGETATION SHALL BE RETAINED IN PLACE;
- SILT FENCING IS TO BE PLACED ON THE DOWNSTREAM SIDE OF ALL STOCKPILE SITES AND AN ADEQUATE CUT OFF DRAIN IS TO BE PLACED ON THE UPSTREAM SIDE OF ALL STOCKPILE SITES;
- FILL BATTER SLOPES TO BE 1 IN 4 MAX UNLESS SPECIFIED OTHERWISE;
- CUT BATTER SLOPES TO BE 1 IN 2 MAX UNLESS SPECIFIED OTHERWISE;
- ALL GROUND SURFACES DISTURBED DURING EARTHWORKS ARE TO BE GRASS SEEDED;
- CUT / FILL HEIGHTS PROVIDED IN THE DTM MUST BE ADHERED TO;
- EXISTING SURFACE HEIGHTS ARE INTERPOLATED FROM A TRIANGULATED DIGITAL TERRAIN MODEL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE EXISTING SURFACE LEVELS AND CORRESPONDING CUT / FILL HEIGHTS TO ACHIEVE THE DESIGN SURFACE LEVEL ON SITE.

STRUCTURE SETOUT POINTS		
STRUCTURE	HORIZONTAL SETOUT	VERTICAL SETOUT
HEADWALL		
MAINTENANCE CHAMBER		EXISTING SURFACE LEVEL CHAMBER/PIT COVER
FIELD INLET		TOP OF GRATE OR COVER, INVERT OF TABLE DRAIN

GENERAL NOTES:

- NO OPERATIONAL WORKS ARE TO COMMENCE UNTIL THE NAME OF THE RESPONSIBLE CONTRACTOR HAS BEEN ADVISED IN WRITING TO COUNCIL, AND THE CONTRACTOR HAS RECEIVED FROM COUNCIL A NOTICE OF APPOINTMENT OF PRINCIPAL CONTRACTOR, UNDER THE PROVISIONS OF THE WORKPLACE HEALTH AND SAFETY ACT (I.E. SUBMISSION OF NOTIFICATION OF CLEAVE PAYMENT FORM).
- THE CONTRACTOR SHALL ENSURE TURFED OR SEEDED REGIONS ARE REGULARLY WATERED TO ENSURE VEGETATION IS MAINTAINED.
- ALL DISTURBED SURFACES TO BE TOPSOILED, GRASS SEEDED AND STABILISED WITHIN TWO WEEKS OF COMPLETION OF SITE WORKS.
- APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE UTILISED DURING WORKS.
- THE INSTALLATION AND OPERATIONS OF NOISE GENERATING EQUIPMENT AND VEHICLES SHALL BE CARRIED OUT IN A MANNER TO MINIMISE THEIR IMPACTS ON NEIGHBOURING PROPERTIES. NOISE LIMITS TO COMPLY WITH THE DEVELOPMENT APPROVAL.
- ALL DIMENSIONS WITHIN THIS DRAWING SET ARE IN METRES UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING SERVICES WITH THE RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. ANY COSTS ASSOCIATED WITH REPAIRING DAMAGE TO EXISTING SERVICES SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH CMDG SPECIFICATIONS AND DRAWINGS UNLESS DIRECTED OTHERWISE.
- THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN (E.S.C.P.) SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF WORKS IN ACCORDANCE;
- ALL MATERIALS SHALL BE TRANSPORTED VIA DESIGNATED CONSTRUCTION ACCESS ROUTES UNLESS DIRECTED OTHERWISE BY THE ADMINISTRATOR.
- ALL LEVELS IN THIS CONTRACT ARE AUSTRALIAN HEIGHT DATUM (AHD).
- LEVELS FOR CONNECTION TO EXISTING WORKS MAY BE VARIED WHERE NECESSARY ON SITE TO ACHIEVE A SATISFACTORY SMOOTH FINISH TO THE EXISTING WORKS UPON APPROVAL BY THE ADMINISTRATOR.
- ALL LEVELS ARE DTM DERIVED FOR LAYOUTS, LONGITUDINAL SECTIONS AND CROSS SECTIONS.
- CONTRACTOR TO CONFIRM LEVELS ON SITE BEFORE CONSTRUCTION;
- DO NOT OBTAIN DIMENSIONS FROM SCALING OFF PLANS;

SCOUR PROTECTION NOTES:

- CHECK DAMS MAY BE CONSTRUCTED OUT OF ROCKS AND SANDBAGS AND IN COMBINATION WITH GEOTEXTILE;

SEDIMENT EROSION:

- ALL CONTROL MEASURES TO BE INSPECTED AT LEAST WEEKLY AND AFTER SIGNIFICANT RUNOFF PRODUCING STORMS;

SEDIMENT FENCE:

- NOT TO BE LOCATED IN AREAS OF CONCENTRATED FLOW;
- NORMALLY LOCATED ALONG THE CONTOUR WITH A MAXIMUM CATCHMENT AREA 0.6HA PER 100m LENGTH OF FENCE;

CONSTRUCTION NOTES:

- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCIES OR OMISSIONS SHALL BE IMMEDIATELY REFERRED TO THE SUPERINTENDENT FOR RESOLUTION.
- CONSTRUCTION FROM THESE DRAWINGS AND ASSOCIATED CONSULTANTS' DRAWINGS SHALL NOT COMMENCE UNTIL APPROVED BY THE LOCAL AUTHORITIES.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIA STANDARDS, IPWEAQ, WSAA, NATSPEC/AUS-SPEC, THE BUILDING CODE OF AUSTRALIA AND WITH THE POLICIES, BY-LAWS, CODES AND SPECIFICATIONS OF THE RELEVANT LOCAL AUTHORITIES.
- WHERE PROVIDED, THE ACCOMPANYING BILLS OF QUANTITIES SHALL ONLY SERVE AS A SUPPLEMENT FOR PRICING PURPOSE. THE CONTRACTOR SHALL ALLOW FOR ALL WORKS REQUIRED TO COMPLY WITH THE DRAWINGS. THIS INCLUDES ANY TEMPORARY, INTERMEDIATE OR PROTECTIVE WORKS REQUIRED TO FACILITATE FINAL CONSTRUCTION.

PLANS AND DOCUMENTS
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Drawn	D.AINSIE	Date	26/09/2019
Checked	D.AINSIE	Date	27/09/2019
Designed	D.AINSIE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019
CHECKED			

Client	CENTRAL QLD UNIVERSITY
Project	CQCUNT-19-34-DFM
	NORTH ROCKHAMPTON BUILDING 81
	STORMWATER MITIGATION
Title	
	TYPICAL DETAILS & NOTES

Status	FOR CONSTRUCTION		
Datum AHD	GRID	Scale AS SHOWN	Size
Drawing Number R2019052-CI-0104			



CATCHMENT	AREA (m ²)
1/1	1452
2/1	5987
6/1	2584
1/2	3551
7/2	3679
1/3	3695
2/3	1297
3/3	2483
4/3	2203
1/4	794
4/4	844
2/5	2374
3/5	2253
4/5	1680
5/5	1495
1/6	3336
1/6A	8296

	- CONTOUR LINES
	- EXISTING STORMWATER DRAINAGE / GULLY PIT
	- EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
	- EXISTING UNDERGROUND ELECTRICITY
	- EDGE OF BITUMEN
	- EXISTING FENCE / GATE
	- EXISTING OPEN DRAINAGE
	CATCHMENTS CURRENT CONDITION
	DESIGN CATCHMENTS

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Queensland
Government

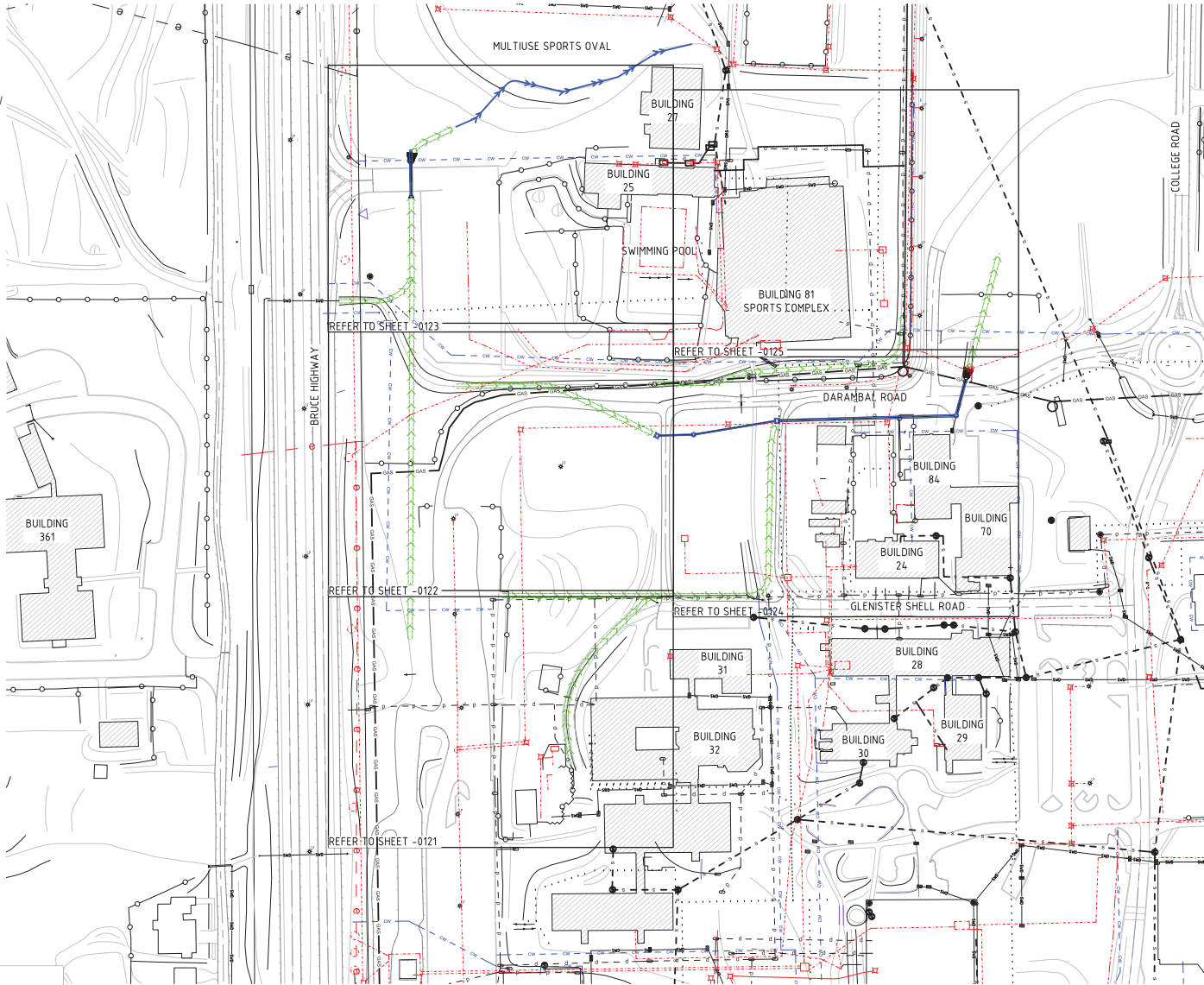


Drawn D JAINSLIE 26/09/2019	Client CENTRAL QLD UNIVERSITY	Status FOR CONSTRUCTION			
Checked D JAINSLIE 27/09/2019	Project CQJUNCT-19-34-DFM NORTH ROCKHAMPTON BUILDING 81 STORMWATER MITIGATION				
Designed D JAINSLIE 20/09/2019	Title CATCHMENT PLAN	Date 27/09/2019	Grid	Scale AS SHOWN	Size A1
Verified C FRANKLIN 27/09/2019		Datum AHD			
Approved C HEGARTY 19/02/2020		Drawing Number R2019052-CI-0105	Revision B		

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LEGEND

- CONTOUR LINES
- EXISTING STORMWATER DRAINAGE / GULLY PIT
- EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
- EXISTING UNDERGROUND ELECTRICITY
- EDGE OF BITUMEN
- EXISTING FENCE / GATE
- EXISTING OPEN DRAINAGE
- PROPOSED FIELD INLET PIT / MANHOLE / RCP
- PROPOSED SWALE DRAIN
- FLOW PATH
- EXISTING UNDERGROUND DATA CABLE
- EXISTING WATER MAIN
- EXISTING FIRE SERVICE
- GAS - GAS - GAS - EXISTING GAS
- EXISTING SEWER
- 4/1 STORMWATER STRUCTURE ID

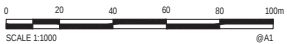


NOTE:
THE SERVICES INFORMATION SHOWN ON THIS DRAWING HAS BEEN DERIVED FROM THE FOLLOWING SOURCES:
SURFACE LOCATIONS OF SERVICES LOCATED BY THE SURVEYOR
HISTORICAL DATA PROVIDED IN PDF FORMAT BY THE CLIENT
THE SERVICES SHOWN ARE A REPRESENTATION ONLY, THE CONTRACTOR OR CONSTRUCTION AUTHORITY IS TO CONFIRM THE ACTUAL LOCATIONS OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS

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Approved	RPEQ 5282	Date	15/10/2019
CHECKED			

Client: CENTRAL QLD UNIVERSITY
Project: CQCNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
Title: OVERALL LAYOUT PLAN

Status				
FOR CONSTRUCTION				
Datum	GRID	Scale	Size	
AHD		AS SHOWN	A1	
Drawing Number				Revision
R2019052-CI-0120				A

LEGEND

- | | |
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| | - CONTOUR LINES |
| | EXISTING STORMWATER DRAINAGE / GULLY PIT |
| | EXISTING OVERHEAD ELECTRICITY / LIGHT POLE |
| | EXISTING UNDERGROUND ELECTRICITY |
| | EDGE OF BITUMEN |
| | EXISTING FENCE / GATE |
| | EXISTING OPEN DRAINAGE |
| | PROPOSED FIELD INLET PIT / MANHOLE / RCP |
| | PROPOSED SWALE DRAIN |
| | FLOW PATH |
| | EXISTING UNDERGROUND DATA CABLE |
| | EXISTING WATER MAIN |
| | EXISTING FIRE SERVICE |
| | EXISTING GAS |
| | EXISTING SEWER |
-
- STORMWATER STRUCTURE ID

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- HISTORICAL DATA PROVIDED IN PDF FORMAT BY THE CLIENT

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Checked	Date
D.AINSLE	27/09/2019
Designed	Date
D.AINSLE	20/09/2019
Verified	Date
C.FRANKLIN	27/09/2019
Approved	RPEQ. 5282
C.HEGARTY	15/10/2019

Client **CENTRAL QLD UNIVERSITY**
Project **CQCNT-19-34-DFM**
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
File
LAYOUT DETAIL PLAN
SHEET 1 OF 5

Status	FOR CONSTRUCTION
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Datum AHD	GRID	Scale AS SHOWN	Size A1
Drawing Number R2019052-CI-0121			Revision A

	- CONTOUR LINES
	EXISTING STORMWATER DRAINAGE / GULLY PIT
	EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
	EXISTING UNDERGROUND ELECTRICITY
	EDGE OF BITUMEN
	EXISTING FENCE / GATE
	EXISTING OPEN DRAINAGE
	PROPOSED FIELD INLET PIT / MANHOLE / RCP
	PROPOSED SWALE DRAIN
	FLOW PATH
	EXISTING UNDERGROUND DATA CABLE
	EXISTING WATER MAIN
	EXISTING FIRE SERVICE
	EXISTING GAS
	EXISTING SEWER

STORMWATER STRUCTURE ID

WARNING
EXISTING UNDERGROUND GAS LOCATED IN THIS AREA
LOCATE SERVICE PRIOR TO EXCAVATION OF SWALE DRAIN. PROVIDE
CONCRETE PAD 2m x WIDTH OF DRAIN FLOOR x 100mm DEPTH, SL62 MESH
CENTRAL, IF FINISHED COVER IS <450mm

SWALE DRAIN 0.500m DEPTH WITH 0.500m BASE

CONSTRUCT 900SQ FIELD INLET PIT —
AS PER CMDG STD DRG D-022

LOCATE SERVICE PRIOR TO
EXCAVATION OF SWALE DRAIN.
PROVIDE CONCRETE PAD 2m x
WIDTH OF DRAIN FLOOR x 100mm
DEPTH, SL62 MESH CENTRAL, IF
FINISHED COVER IS <450mm

— SWALE DRAIN 0.250m DEPTH WITH 0.500m BASE

LOCATE SERVICE PRIOR TO
EXCAVATION OF SWALE DRAIN.
PROVIDE CONCRETE PAD 2m x
WIDTH OF DRAIN FLOOR x 100mm
DEPTH, SL62 MESH CENTRAL, IF
FINISHED COVER IS <450mm

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1078
Date: 20 December 2019



NOTE:

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- HISTORICAL DATA PROVIDED IN PDF FORMAT BY THE CLIENT

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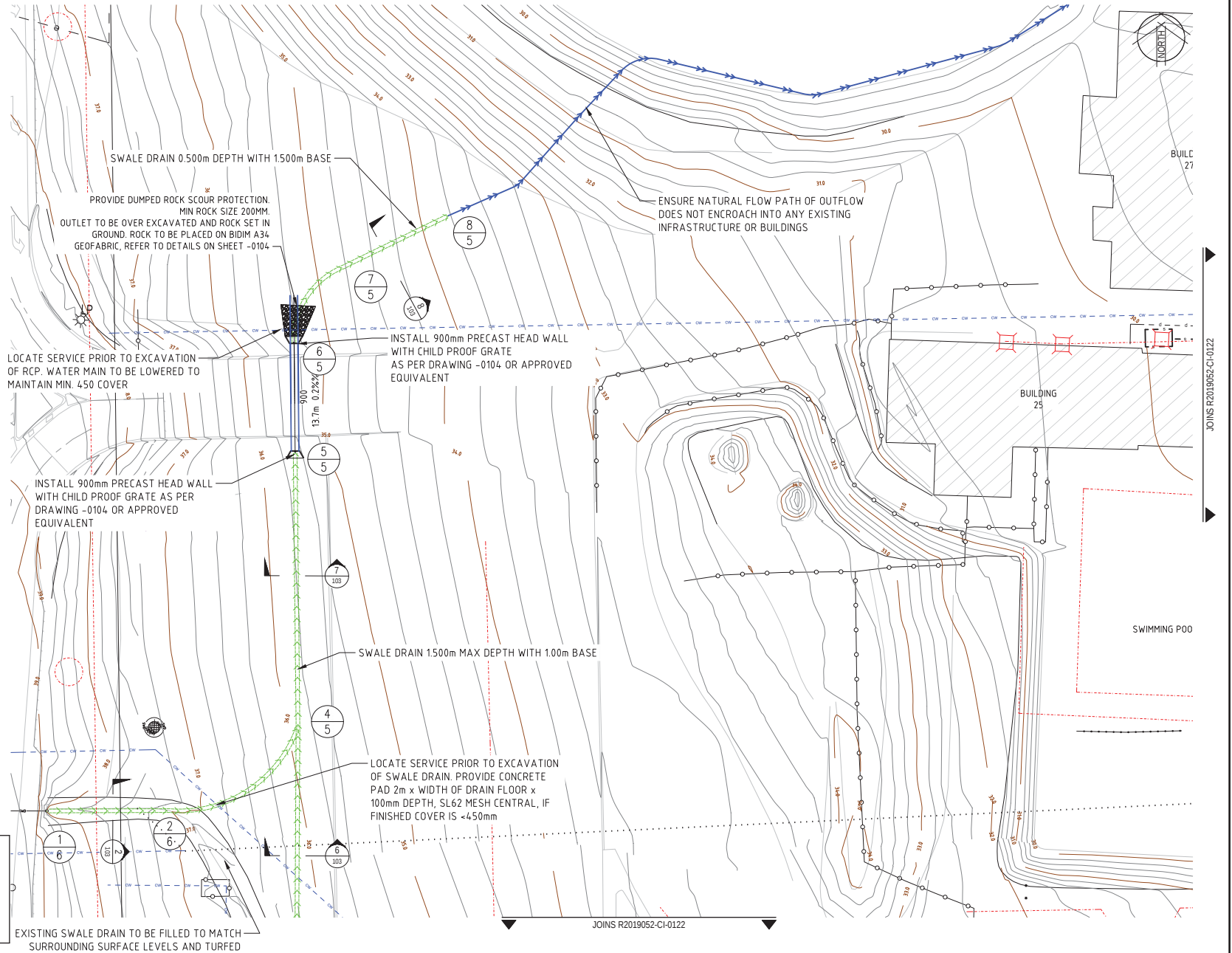
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Checked	Date
D.AINSIE	27/09/2019
Designed	Date
D.AINSIE	20/09/2019
Verified	Date
C.FRANKLIN	27/09/2019
Approved	RPEQ. 5282
C.HEGARTY	Date
	15/10/2019

Client **CENTRAL QLD UNIVERSITY**
Project **CQCNT-19-34-DFM**
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
File
LAYOUT DETAIL PLAN
SHEET 2 OF 5

Status			
FOR CONSTRUCTION			
Datum	GRID	Scale	Size
AHD		AS SHOWN	
Drawing Number			
R2019052-CI-0122			

LEGEND

- CONTOUR LINES
- EXISTING STORMWATER DRAINAGE / GULLY PIT
- EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
- EXISTING UNDERGROUND ELECTRICITY
- EDGE OF BITUMEN
- EXISTING FENCE / GATE
- EXISTING OPEN DRAINAGE
- PROPOSED FIELD INLET PIT / MANHOLE / RCP
- PROPOSED SWALE DRAIN
- FLOW PATH
- EXISTING UNDERGROUND DATA CABLE
- EXISTING WATER MAIN
- EXISTING FIRE SERVICE
- GAS
- EXISTING GAS
- EXISTING SEWER
- STORMWATER STRUCTURE ID

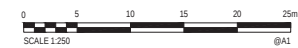


PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2019/1078
Date: 20 December 2019



NOTE:
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Drawn: D.AINSIE
Checked: D.AINSIE
Designed: D.AINSIE
Verified: C.FRANKLIN
Approved: C.HARTY
Date: 26/09/2019
Date: 27/09/2019
Date: 20/09/2019
Date: 27/09/2019
Date: 15/10/2019

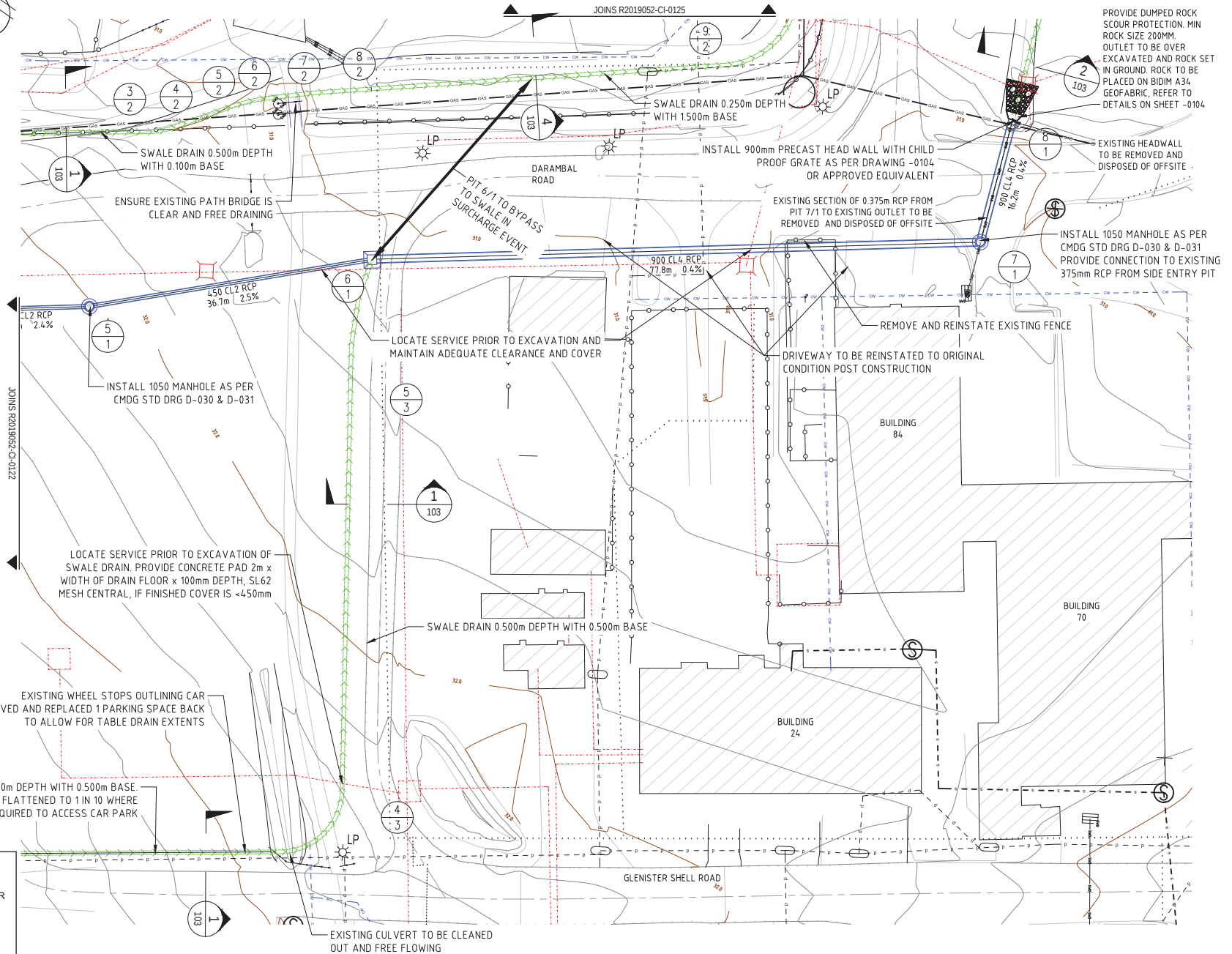
Client: CENTRAL QLD UNIVERSITY
Project: CQCUNT-19-34-DFM
North Rockhampton Building 81
Stormwater Drainage
Title: LAYOUT DETAIL PLAN
Sheet 3 of 5

Status: FOR CONSTRUCTION
Datum: AHD
Scale: AS SHOWN
Size: A1
Drawing Number: R2019052-CI-0123
Revision: A



LEGEND

- | | | |
|--|---|--|
| | - | CONTOUR LINES |
| | | EXISTING STORMWATER DRAINAGE / GULLY PIT |
| | | EXISTING OVERHEAD ELECTRICITY / LIGHT POLE |
| | | EXISTING UNDERGROUND ELECTRICITY |
| | | EDGE OF BITUMEN |
| | | EXISTING FENCE / GATE |
| | | EXISTING OPEN DRAINAGE |
| | | PROPOSED FIELD INLET PIT / MANHOLE / RCP |
| | | PROPOSED SWALE DRAIN |
| | | FLOW PATH |
| | | EXISTING UNDERGROUND DATA CABLE |
| | | EXISTING WATER MAIN |
| | | EXISTING FIRE SERVICE |
| | | EXISTING GAS |
| | | EXISTING SEWER |
| | | STORMWATER STRUCTURE ID |



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL



Approval no: DEV2019/1078
Date: 20 December 2019

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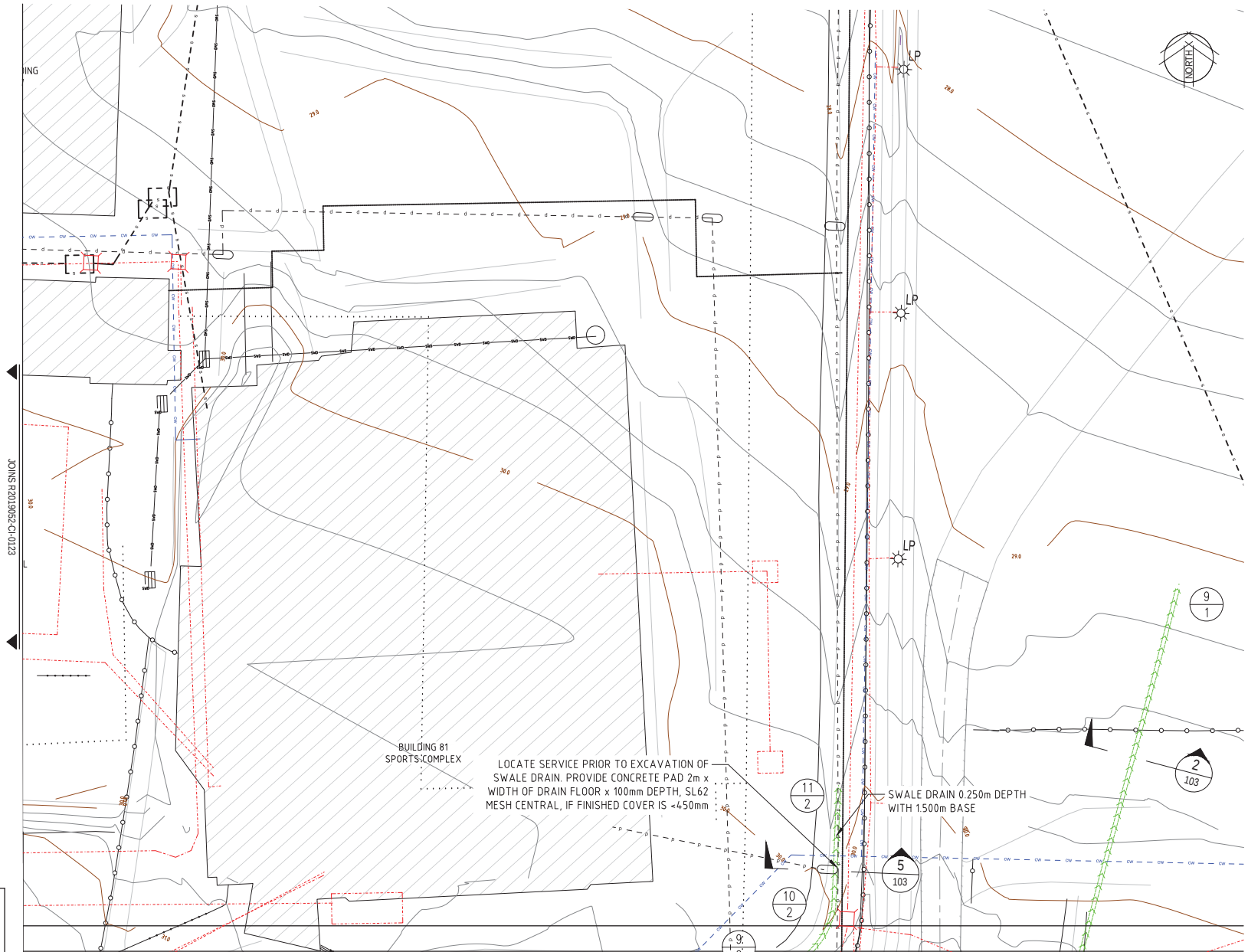
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D.AINSLE	27/09/2019
Designed	Date
D.AINSLE	20/09/2019
Verified	Date
C.FRANKLIN	27/09/2019
Approved	RPEQ. 5282
C.HEGARTY	15/10/2019

Client	CENTRAL QLD UNIVERSITY
Project	CQCNT-19-34-DFM NORTH ROCKHAMPTON BUILDING 81 STORMWATER DRAINAGE
File	LAYOUT DETAIL PLAN SHEET 4 OF 5

Status				FOR CONSTRUCTION	
Datum AHD		GRID		Scale AS SHOWN	
				Size A1	
Drawing Number R2019052-CI-0124					Revision A

LEGEND

- CONTOUR LINES
- EXISTING STORMWATER DRAINAGE / GULLY PIT
- EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
- EXISTING UNDERGROUND ELECTRICITY
- EDGE OF BITUMEN
- EXISTING FENCE / GATE
- EXISTING OPEN DRAINAGE
- PROPOSED FIELD INLET PIT / MANHOLE / RCP
- PROPOSED SWALE DRAIN
- FLOW PATH
- EXISTING UNDERGROUND DATA CABLE
- EXISTING WATER MAIN
- EXISTING FIRE SERVICE
- GAS - GAS - GAS - EXISTING GAS
- EXISTING SEWER
- STORMWATER STRUCTURE ID



PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

Approval no: DEV2019/1078
Date: 20 December 2019



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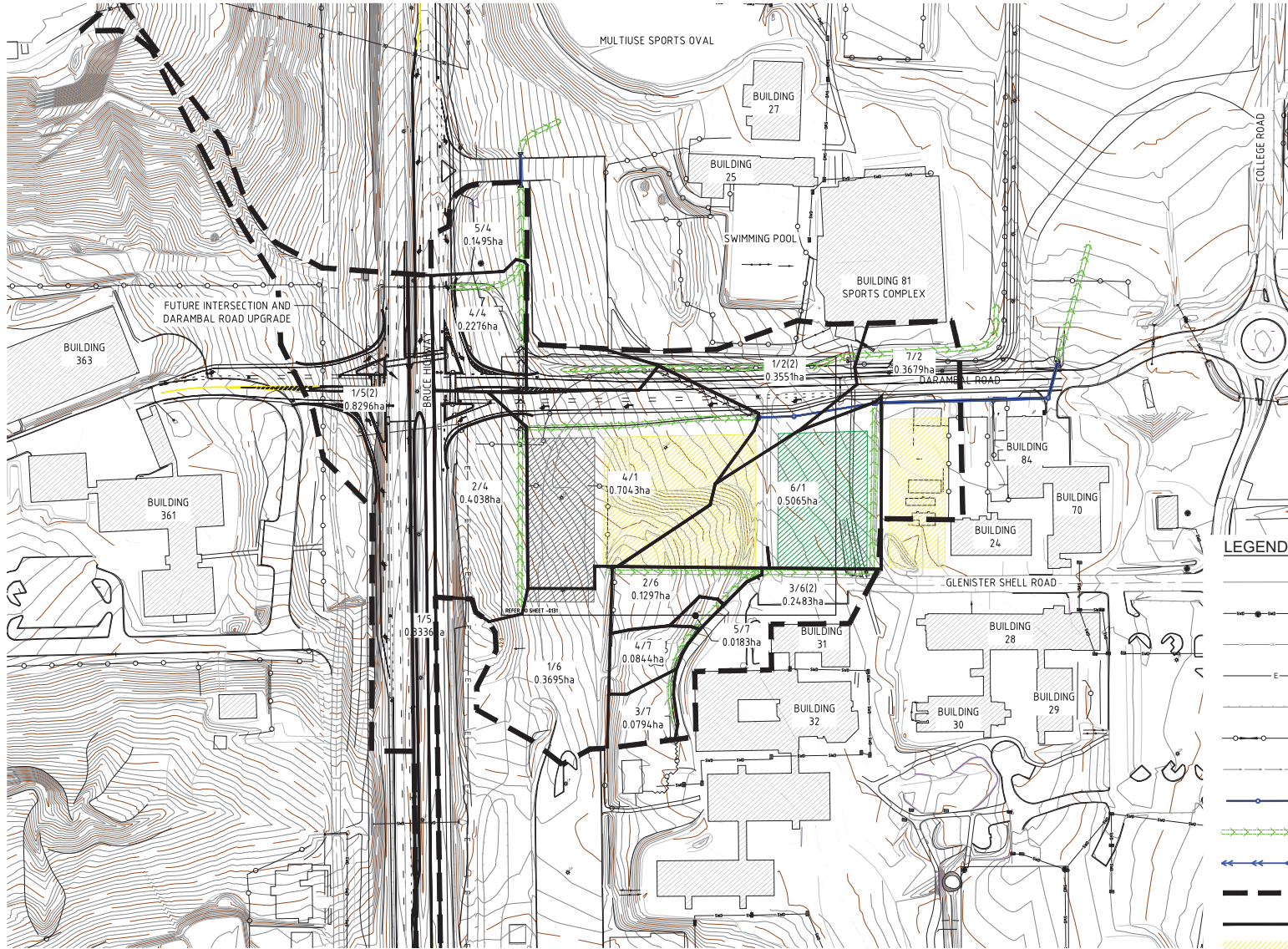
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Checked	D.AINSIE	Date	27/09/2019
Designed	D.AINSIE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019

Client: CENTRAL QLD UNIVERSITY
Project: CQCUNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
Title: LAYOUT DETAIL PLAN
SHEET 5 OF 5

Status: FOR CONSTRUCTION			
Datum: AHD	GRD	Scale: AS SHOWN	Size: A1
Drawing Number: R2019052-CI-0125			Revision: A



LEGEND

- CONTOUR LINES
- EXISTING STORMWATER DRAINAGE / GULLY PIT
- EXISTING OVERHEAD ELECTRICITY / LIGHT POLE
- EXISTING UNDERGROUND ELECTRICITY
- EDGE OF BITUMEN
- EXISTING FENCE / GATE
- EXISTING OPEN DRAINAGE
- PROPOSED FIELD INLET PIT / MANHOLE / RCP
- PROPOSED SWALE DRAIN
- FLOW PATH
- CATCHMENTS CURRENT CONDITION
- DESIGN CATCHMENTS
- FUTURE BUILDING
- FUTURE GREENSPACE
- FUTURE CARPARK

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

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Checked	D.AINSIE	Date	27/09/2019
Designed	D.AINSIE	Date	20/09/2019
Verified	D.AINSIE	Date	27/09/2019
Approved	C.FRANKLIN	Date	27/09/2019
	RPEQ 5282		
C.HEGARTY		Date	15/10/2019

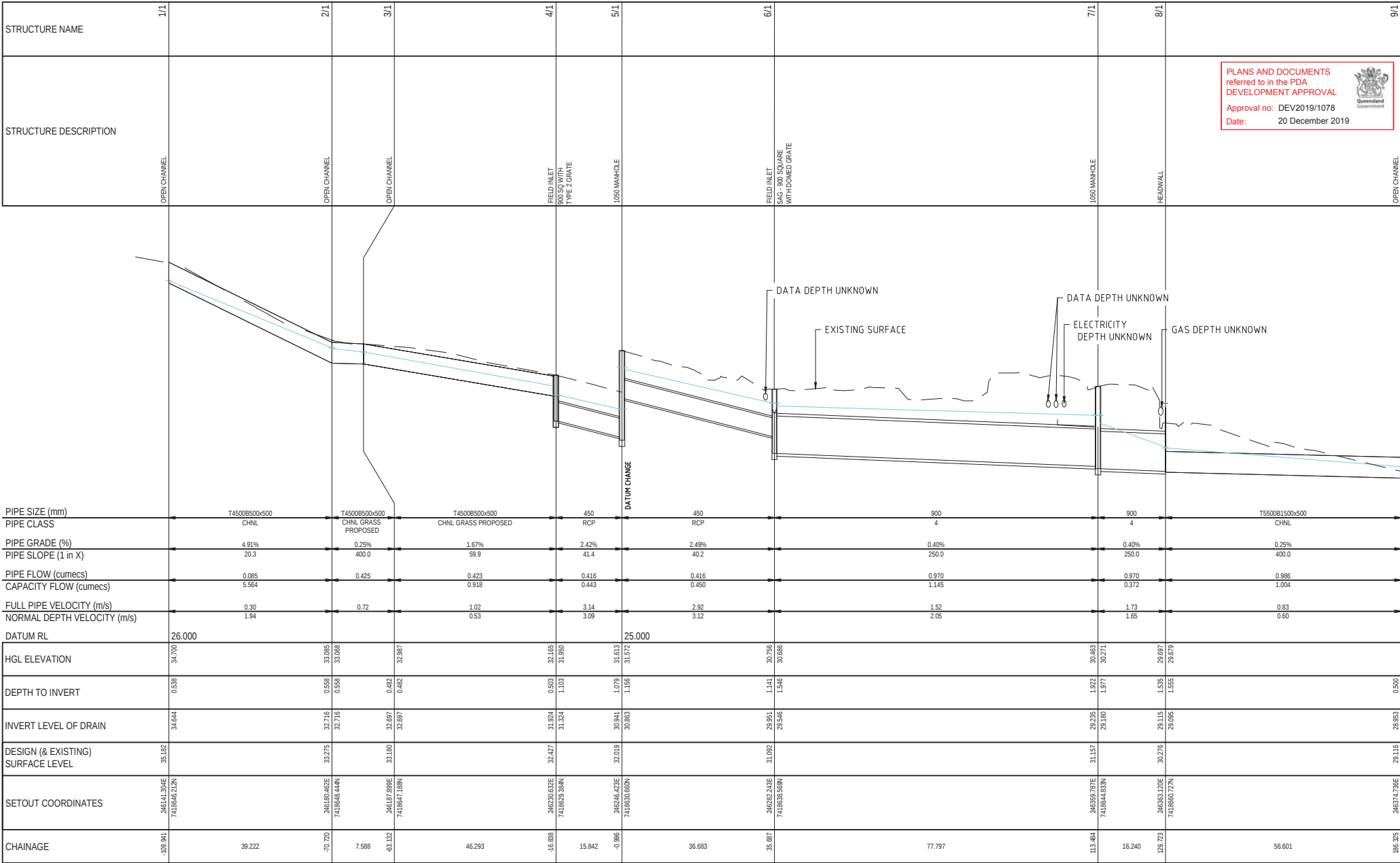
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Project CQCNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
Title FUTURE LAYOUT PLAN

Status	FOR CONSTRUCTION			
Datum	AHD	GRD	Scale	AS SHOWN
Size	A1			
Drawing Number	R2019052-CI-0130			Revision
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Rev.	Date	Description	Des.	Ver.	Appr.
A	15/10/2019	FOR CONSTRUCTION	DSA	CGF	CH
1	27/09/2019	PRELIMINARY APPROVAL	DSA	CGF	

- | | |
|--|--|
| | - CONTOUR LINES |
| | EXISTING STORMWATER DRAINAGE / GULLY PIT |
| | EXISTING OVERHEAD ELECTRICITY / LIGHT POLE |
| | EXISTING UNDERGROUND ELECTRICITY |
| | EDGE OF BITUMEN |
| | EXISTING FENCE / GATE |
| | EXISTING OPEN DRAINAGE |
| | PROPOSED FIELD INLET PIT / MANHOLE / RCP |
| | PROPOSED SWALE DRAIN |
| | FLOW PATH |
| | CATCHMENTS CURRENT CONDITION |
| | DESIGN CATCHMENTS |
| | FUTURE BUILDING |
| | FUTURE GREENSPACE |
| | FUTURE CARPARK |
| | STORMWATER STRUCTURE ID |

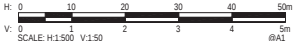
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LINE

1

Rev.	Date	Description	Des.	Verif.	Appd.
A	15/10/2019	FOR CONSTRUCTION	DSA	CGF	CH
1	27/09/2019	PRELIMINARY APPROVAL	DSA	CGF	



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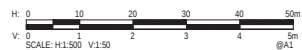
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Drawn D.AINSIE 26/09/2019	Date 26/09/2019	Client CENTRAL QLD UNIVERSITY
Checked D.AINSIE 27/09/2019	Date 27/09/2019	Project CQCUNT-19-34-DFM
Designed D.AINSIE 20/09/2019	Date 20/09/2019	North Rockhampton Building 81
Verified C.FRANKLIN 27/09/2019	Date 27/09/2019	STORMWATER DRAINAGE
Approved C.FRANKLIN 15/10/2019	Date 15/10/2019	Q10 LONGITUDINAL SECTION 1 SHEET 1 OF 6
Status FOR CONSTRUCTION		Revision A
Drawing Number R2019052-CI-0140		



2

A	15/10/2019	FOR CONSTRUCTION	DSA	CGF	CH	
1	27/09/2019	PRELIMINARY APPROVAL	DSA	CGF		
Rev.	Date	Description	Des.	Vent.	Appd.	



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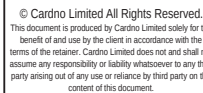
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Designed	Date
D.AINSIE	20/09/2019
Verified	Date
C.FRANKLIN	27/09/2019
Approved	RPEQ. 5282
C.HEGARTY	15/10/2019

Client	CENTRAL QLD UNIVERSITY
Project	CQCUNT-19-34-DFM NORTH ROCKHAMPTON BUILDING 81 STORMWATER DRAINAGE
Title	Q10 LONGITUDINAL SECTION 2 SHEET 2 OF 6

Status				FOR CONSTRUCTION	
Datum AHD		GRID		Scale AS SHOWN	
				Size A1	
Drawing Number R2019052-CI-0141					Revision A

LINE

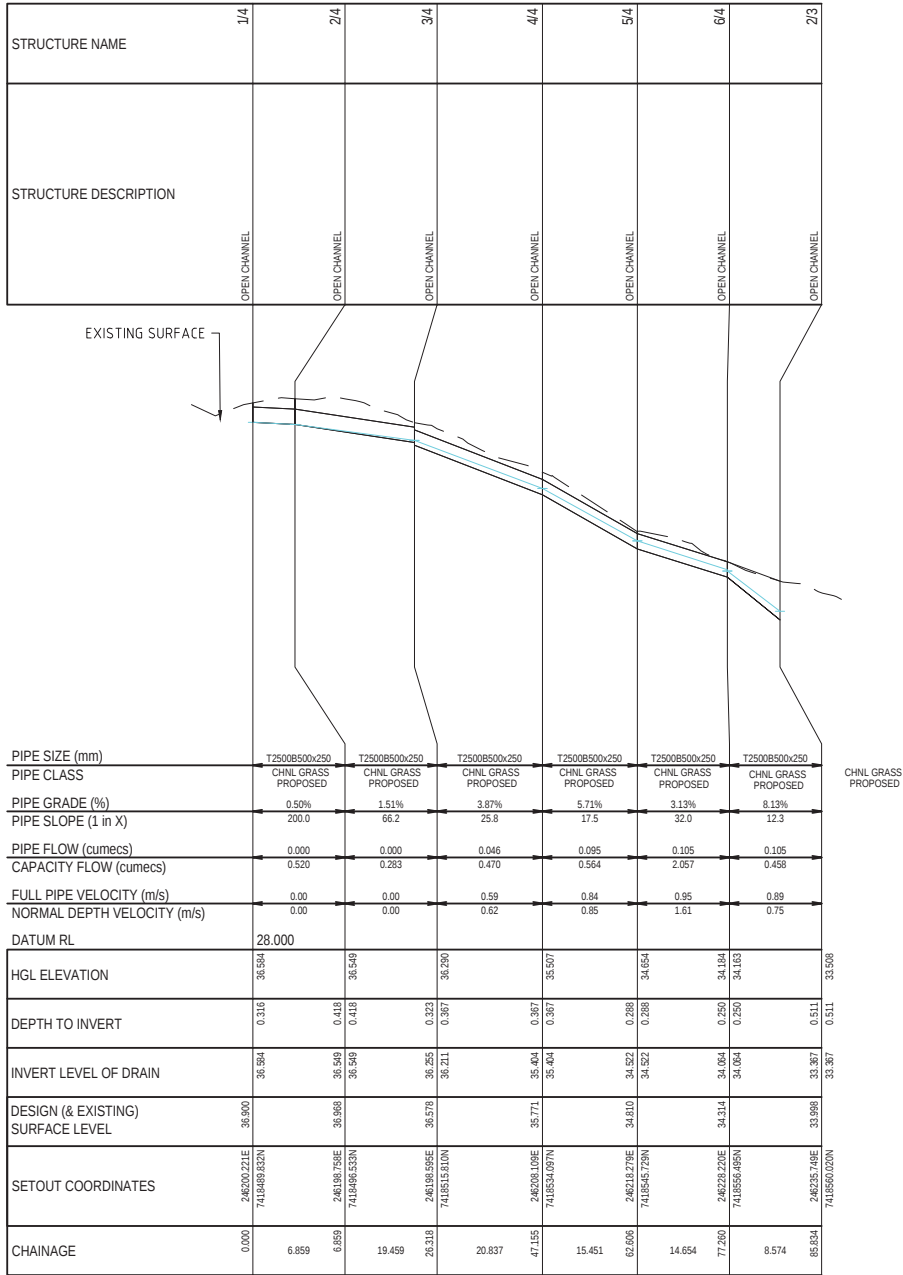
Queensland
Government



Drawn D.AINSIE	Date 26/09/2019	Client CENTRAL QLD UNIVERSITY					
Checked D.AINSIE	Date 27/09/2019	Project CQCUNT-19-34-DFM	Status FOR CONSTRUCTION				
Designed D.AINSIE	Date 28/09/2019	NORTH ROCKHAMPTON BUILDING 81					
Verified C.FRANKLIN	Date 27/09/2019	STORMWATER DRAINAGE		Date AHD	GRID	Scale AS SHOWN	Size A1
Approved 	RPEQ: 5382	Title Q10 LONGITUDINAL SECTION 3 SHEET 3 OF 6		Drawing Number R2019052-CI-0142		Revision A	
C.HEGARTY	Date 15/10/2019						

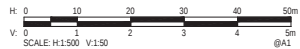
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2019/1078
Date: 20 December 2019



LINE

4



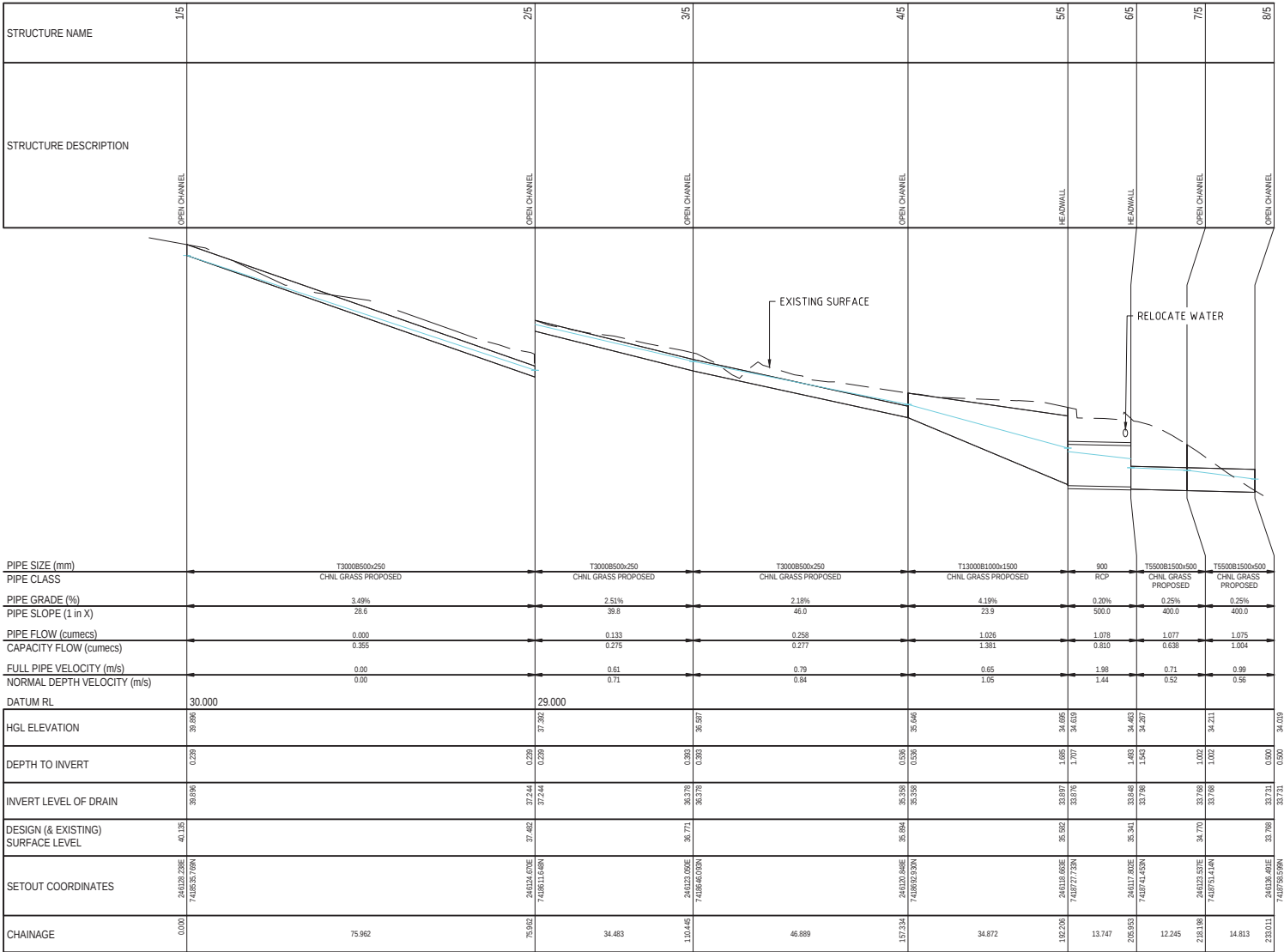
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Designed	D.AINSIE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019
CHECKARTY			

Client	CENTRAL QLD UNIVERSITY
Project	CQCUNT-19-34-DFM NORTH ROCKHAMPTON BUILDING 81 STORMWATER DRAINAGE
Title	Q10 LONGITUDINAL SECTION 4 SHEET 4 OF 6

Status				FOR CONSTRUCTION	
Datum AHD		GRID	Scale AS SHOWN		Size A1
Drawing Number R2019052-CI-0143					Revision A



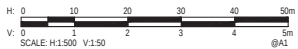
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5

PLANS AND DOCUMENTS
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DEVELOPMENT APPROVAL

Approval no: DEV2019/1078

Date: 20 December 2019



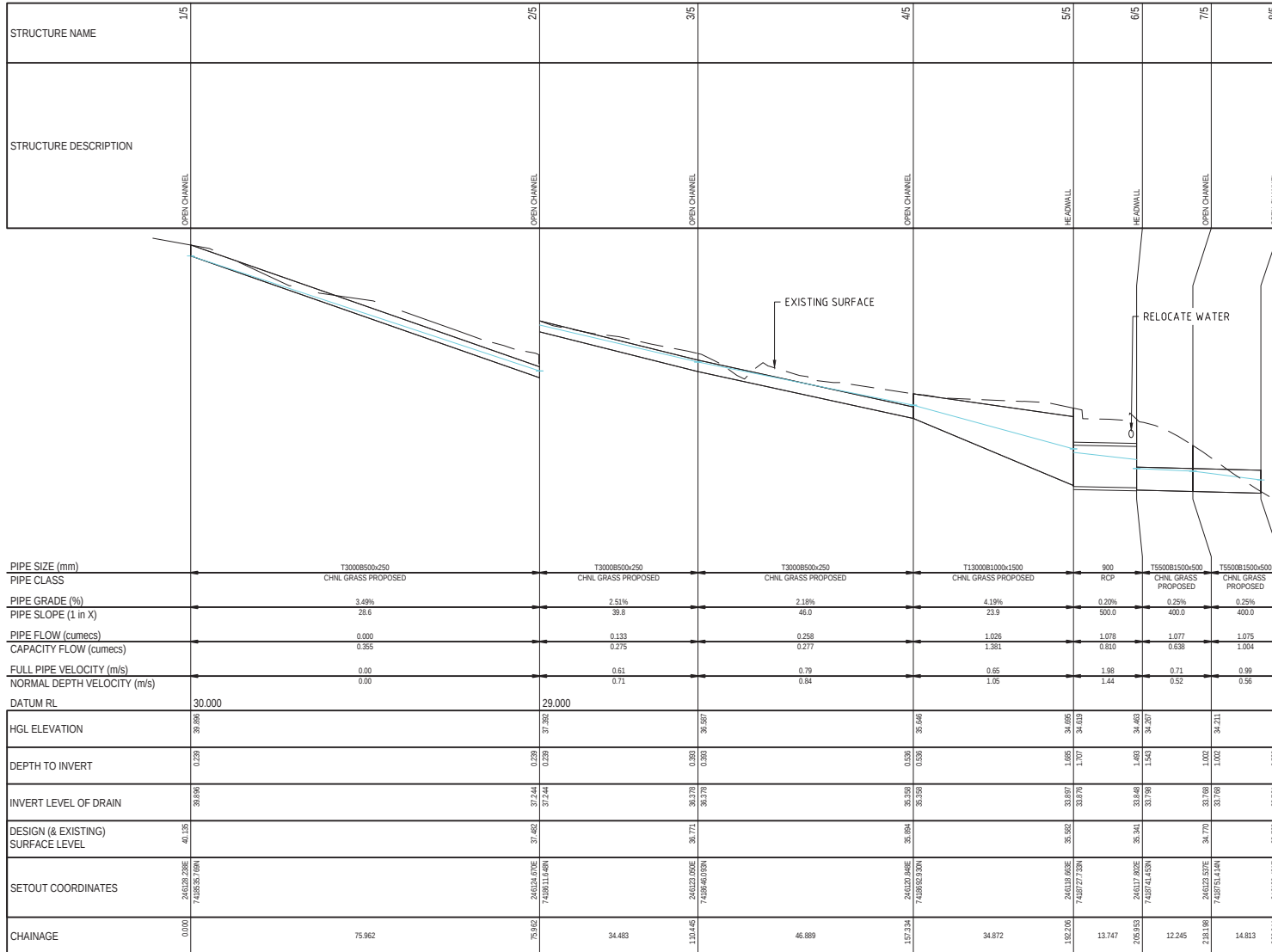
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Drawn	Date	Client
D.AINSIE	26/09/2019	CENTRAL QLD UNIVERSITY
Checked	Date	Project
D.AINSIE	27/09/2019	CQCNT-19-34-DFM
Designed	Date	Project
D.AINSIE	20/09/2019	NORTH ROCKHAMPTON BUILDING 81
Verified	Date	Project
C.FRANKLIN	27/09/2019	STORMWATER DRAINAGE
Approved	Date	Title
C.HARTY	15/10/2019	Q10 LONGITUDINAL SECTION 5
		SHEET 5 OF 6

Status	FOR CONSTRUCTION
Datum	AHD
GRD	AS SHOWN
Scale	AS SHOWN
Size	A1
Drawing Number	R2019052-CI-0144
Revision	A

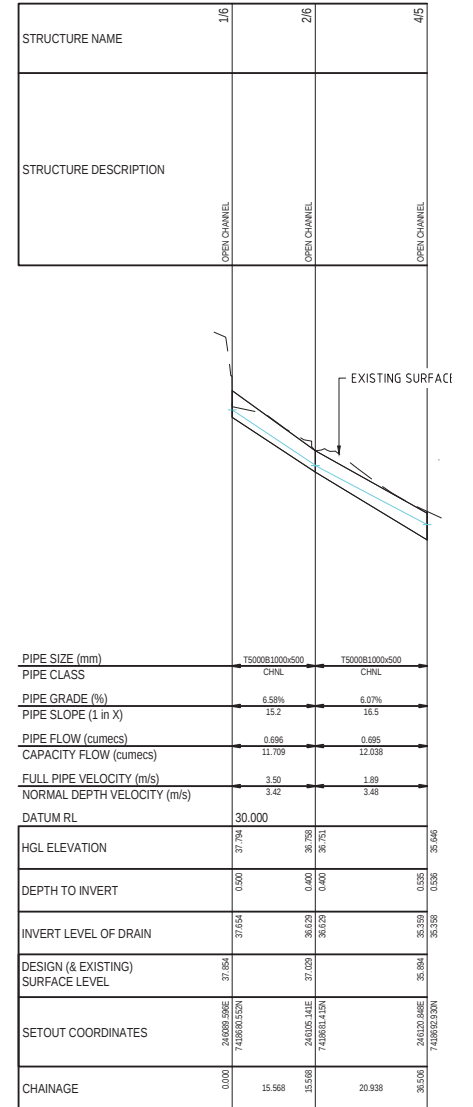


LINE 5

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL

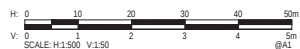
Approval no: DEV2019/1078

Date: 20 December 2019



LINE 6

Rev	Date	Description	Des.	Verf.	Appd.
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1	27/09/2019	PRELIMINARY APPROVAL	DSA	CGF	



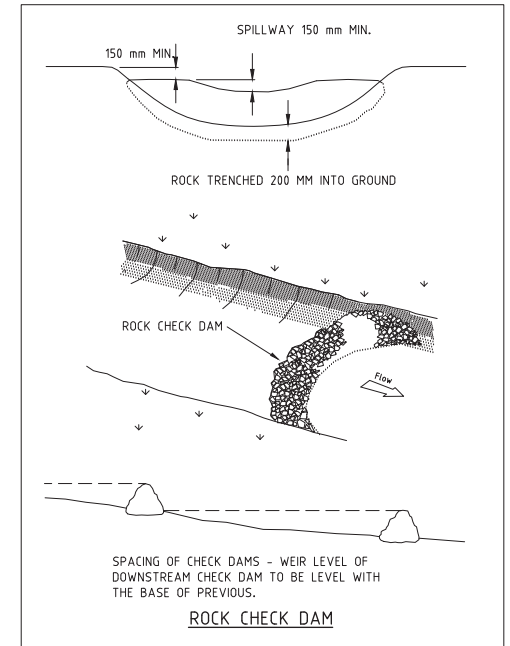
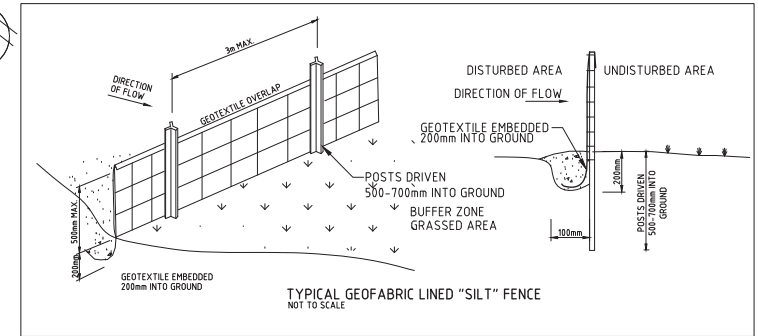
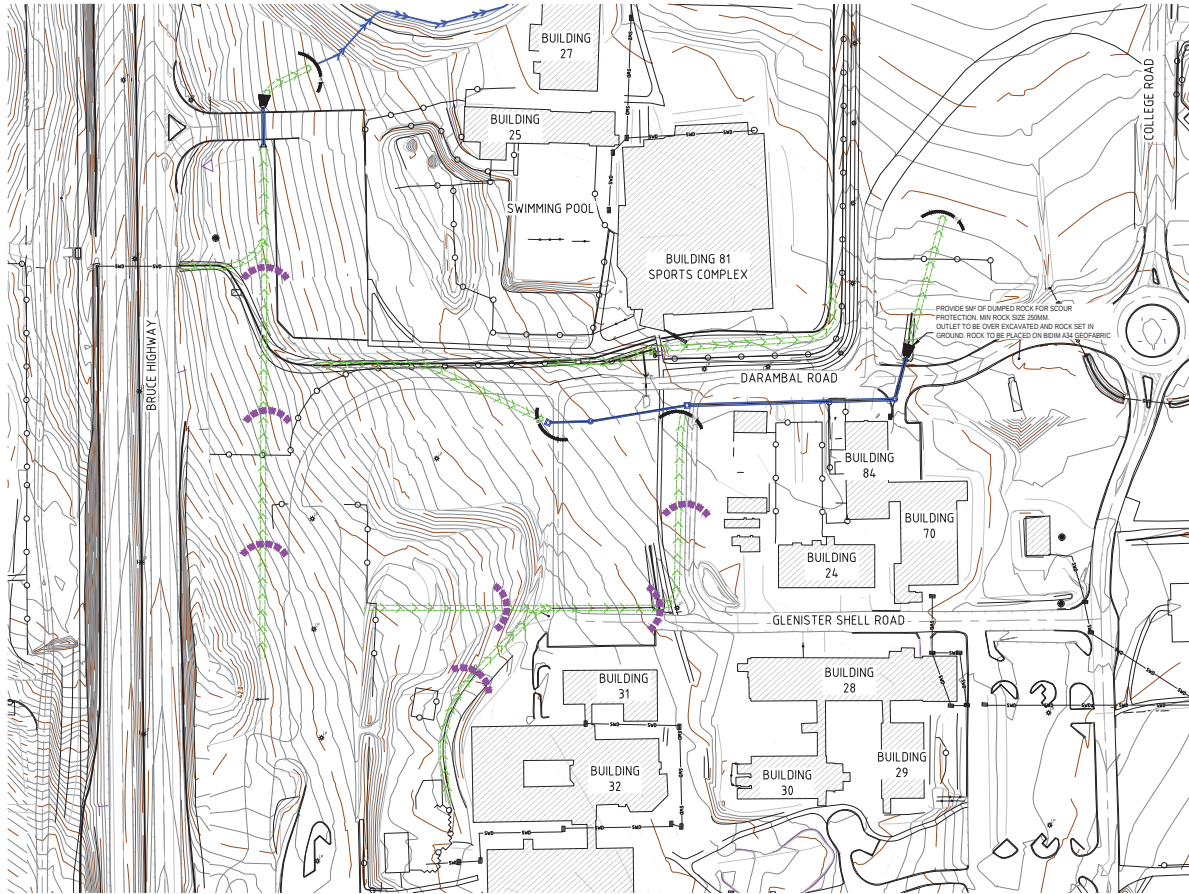
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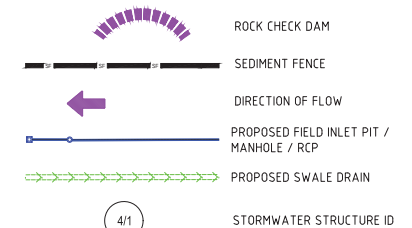
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Checked	D.AINSIE	Date	27/09/2019
Designed	D.AINSIE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019
CHECKED			

Client: CENTRAL QLD UNIVERSITY
Project: CQCUNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
STORMWATER DRAINAGE
Title: Q10 LONGITUDINAL SECTION 6
SHEET 6 OF 6

Status	FOR CONSTRUCTION
Datum	AHD
GRD	AS SHOWN
Scale	A1
Drawing Number	R2019052-CI-0145
Revision	A



LEGEND



PHASING OF WORKS

1. INSTALL TRUCK SHAKER RAMP AND WASH DOWN AT ENTRY TO NEW WORK AREA.
2. INSTALL ALL BARRIER AND SILT FENCING.
3. INSTALL ALL CATCH DRAINS AND DIVERSION BANKS
4. CARRY OUT CLEARING FROM ALL DRIVE AND SITE REGARDING AREAS. ALL VEGETATION IS TO BE MULCHED AND STOCKPILED FOR LATER USE. ONLY RUBBISH AND TIMBER UNSUITABLE FOR MULCHING IS TO BE DISPOSED OF TO AN APPROPRIATE LOCATION.
5. STRIP SITE AND STOCKPILE TOPSOIL.
6. FORM SEDIMENT BASINS AND EXCAVATE DIVERSION DRAINS TO THE BASINS TO CONTROL SEDIMENT LADEN FLOWS IF REQUIRED.
7. UNDERTAKE SITE WORKS, COMPACT AND REVEGETATE DISTURBED AREAS.
8. UNCOMPLETED EARTHWORKS ARE TO BE ROLLED AT THE END OF EACH DAY SO AS TO SEAL THE SURFACE.
9. AS EARTHWORKS ARE COMPLETED THOSE AREAS ARE TO BE TOPSOILED, SEEDED AND MULCHED OR PAVED WITHIN 20 WORKING DAYS.
10. IN AREAS WHERE WORKS HAVE TEMPORARILY CEASED AND WILL NOT PROCEED FOR 2 WEEKS TEMPORARY EROSION CONTROLS (EG. MULCHES ANNUAL GRASSES ETC.) ARE TO BE INSTALLED.
11. ONLY AT THE COMPLETION AND STABILIZATION OF AREAS UPSTREAM ARE ANY CONTROL DEVICES TO BE REMOVED.

DUST CONTROL NOTES

1. TOPSOIL STOCKPILES ARE TO BE WATERED AND LIGHTLY COMPACTED TO ENSURE MINIMAL DUST DISTURBANCE PRIOR TO RESPIDING.
2. SITE TO BE KEEP MOIST AT ALL TIMES TO ENSURE DUST CONTROL.
3. UNCOMPLETED WORKS ARE TO BE WATERED AND ROLLED AT THE END OF EACH WORKING DAY TO ENSURE A FIRM SEALED SURFACE TO CONTROL DUST.
4. TURF TO BE ADDED TO SWALE DRAINS UPON COMPLETION

SEDIMENT CONTROL

1. CONTROL WILL BE VIA THE INSTALLATION OF SILT FENCING, CATCH DRAINS, HAYBALE BARRIERS AND SEDIMENT PONDS.
2. TOPSOIL STOCK-PILES ARE TO BE LOCATED IN AREAS CLEAR OF SERVICING, WATERCOURSES, ROAD AND DRAINAGE WORKS AND PROVIDE WITH SILT FENCING ON THEIR DOWNSTREAM SIDE.
3. DURING THE PROJECTS CONSTRUCTION, ALL PITS ARE TO BE BLOCKED OFF AT THE SURFACE AND RUNOFF FLOWS ARE TO BE DIRECTED TO THE SEDIMENT PONDS WHERE CONTAMINATED WATERS CAN BE TREATED UNTIL THE SURROUNDING LANDSCAPE HAS BEEN STABILISED TO THE SATISFACTION OF THE SITE SUPERINTENDENT.
4. ONLY ON THE COMPLETION OF WORKS ARE THE SEDIMENT PONDS TO BE REMOVED.
5. SITE TO BE FULLY MAINTAINED DURING THE MAINTENANCE PERIOD OR UNTIL SUCH TIME THAT THE WORKS ARE PLACED OFF MAINTENANCE.

Rev.	Date	Description	Des.	Verf.	Appr.
B	22/10/2019	UPDATED NOTES AND LEGEND	DSA	CGF	CH
A	15/10/2019	FOR CONSTRUCTION	DSA	CGF	CH

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL	
Approval no:	DEV2019/1078
Date:	20 December 2019



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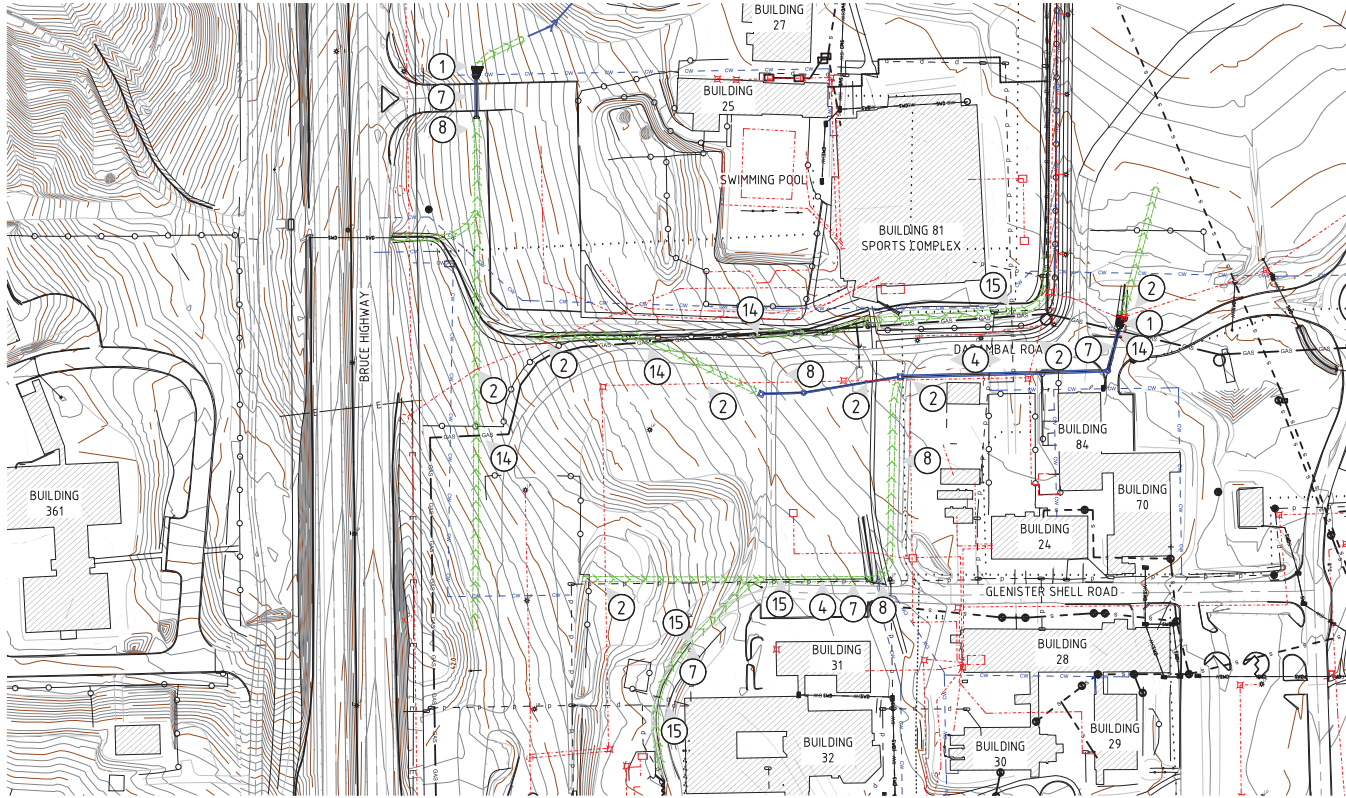


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Drawn D.AINSIE	Date 26/09/2019	Client CENTRAL QLD UNIVERSITY
Checked D.AINSIE	Date 27/09/2019	Project CQCUNT-19-34-DFM
Designed D.AINSIE	Date 20/09/2019	North Rockhampton Building 81
Verified C.FRANKLIN	Date 27/09/2019	R2019052-CI-0150
Approved RPEQ 5282	Date 15/10/2019	Title SEDIMENT AND EROSION CONTROL PLAN
C.HGARTY		Status FOR CONSTRUCTION
		Datum AHD
		GRD
		Scale AS SHOWN
		Size A1
		Drawing Number R2019052-CI-0150
		Revision B

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STORMWATER STRUCTURE ID



GENERAL NOTE:

UNDER THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 1995, THE WORKPLACE HEALTH AND SAFETY REGULATION AND OTHER LEGISLATION AND GUIDELINES, THE PRINCIPAL CONTRACTOR HAS SPECIFIC OBLIGATIONS IN RELATION TO THE SAFE OPERATION OF THE SITE OF THE WORKS. TO ASSIST THE PRINCIPAL CONTRACTOR IN COMPLYING WITH THESE OBLIGATIONS, THE PROJECT DESIGNERS HAVE IDENTIFIED, BY DRAWING NOTES, OR THROUGH ADVICE AT PRE-CONSTRUCTION WORKSHOPS, AREAS WHERE POTENTIAL HAZARDS MAY ARISE. THESE NOTES OR ADVICE SHALL NOT NECESSARILY BE CONSIDERED TO BE COMPLETE AND ARE BASED UPON THE DESIGNERS' UNDERSTANDING OF THE SAFETY RISKS ASSOCIATED WITH THE WORKS. THESE NOTES OR ADVICE SHALL NOT RELIEVE THE PRINCIPAL CONTRACTOR OF HIS OBLIGATIONS UNDER THE RELEVANT LEGISLATION AND GUIDELINES AND THE PRINCIPAL CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE PREPARATION OF AN APPROPRIATE SAFETY PLAN FOR THE SITE.

ITEM	POTENTIAL HAZARD	POSSIBLE PREVENTATIVE ACTION
1	DEEP EXCAVATION HAZARD	EXCAVATION WORK SHALL BE UNDERTAKEN BY APPROPRIATELY EXPERIENCED AND QUALIFIED PERSONNEL. EXCAVATIONS SHALL BE ADEQUATELY SHORED AND APPROPRIATE BARRICADES ERECTED, IF REQUIRED.
2	UNDERGROUND ELECTRIC POWER HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF LIVE UNDERGROUND CABLES. THE CABLE LOCATION SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON-SITE DURING EXCAVATION WORK, IF REQUIRED.

3	OVERHEAD POWER HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF LIVE OVERHEAD CABLES. THE CABLE LOCATION SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON-SITE DURING EXCAVATION WORK, IF REQUIRED.
4	HIGH PRESSURE WATER MAIN HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF UNDERGROUND HIGH PRESSURE WATER MAINS. THE LOCATION OF THE MAINS SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON-SITE DURING EXCAVATION WORK, IF REQUIRED.
5	POTENTIAL FALL HAZARD	THE POTENTIAL FOR PERSONAL INJURY DUE TO FALLS FROM HEIGHT MAY EXIST ON THIS SITE. WHERE ACTIVITIES ARE TO BE UNDERTAKEN IN SITUATIONS WHERE A FALL HAZARD EXISTS, APPROPRIATE SIGNAGE, BARRIERS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED. ALL REQUIRED PERSONAL SAFETY EQUIPMENT SHALL BE WORN.
6	POTENTIAL DROWNING HAZARD	THE POTENTIAL FOR PERSONAL INJURY OR DROWNING DUE TO FALLS INTO WATER MAY EXIST ON THIS SITE. WHERE ACTIVITIES ARE TO BE UNDERTAKEN IN SITUATIONS WHERE A FALL HAZARD INTO WATER EXISTS, APPROPRIATE SIGNAGE, BARRIERS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED. ALL REQUIRED PERSONAL SAFETY EQUIPMENT, SUCH AS LIFE JACKETS, SHALL BE WORN.

7	POTENTIAL VEHICLE HAZARD	SITE PERSONNEL SHALL BE ADVISED OF THE POTENTIAL HAZARDS AND APPROPRIATE PROCEDURES FOR WORKING ADJACENT TO OPERATING PUBLIC ROADS OR SITE HAUL ROADS. APPROPRIATE SAFETY CLOTHING SHALL BE WORN AND THE REQUIRED SIGNAGE SHALL BE ERECTED. THE WORK SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF VEHICLES AND THEIR OCCUPANTS OR OF SITE PERSONNEL.
8	POTENTIAL PEDESTRIAN HAZARD	WHERE WORK IS TO BE UNDERTAKEN WITHIN OR ADJACENT TO AREAS TO WHICH THE PUBLIC HAS PEDESTRIAN ACCESS, APPROPRIATE BARRICADES AND SIGNAGE SHALL BE ERECTED. THE WORK SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF THE PUBLIC OR OF SITE PERSONNEL.
9	POTENTIAL NOISE HAZARD	THE POTENTIAL FOR HEARING DAMAGE DUE TO CONSTRUCTION ACTIVITIES INVOLVING MACHINERY AND POWER TOOLS MAY EXIST ON THIS SITE. WHERE ACTIVITIES LIKELY TO PRODUCE EXCESSIVE NOISE LEVELS ARE UNDERTAKEN, APPROPRIATE WORK PROCEDURES ARE TO BE IMPLEMENTED. APPROPRIATE SIGNAGE, BARRIERS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED. ALL REQUIRED PERSONAL SAFETY EQUIPMENT SHALL BE WORN.
10	CONFINED SPACE HAZARD	ALL PERSONNEL ENTERING THE PUMP STATION WELL AND VALVE CHAMBER SHALL BE TRAINED AND QUALIFIED IN THE RELEVANT WORK PROCEDURES AND SHALL HAVE A THOROUGH UNDERSTANDING OF APPROPRIATE WORK AND SAFETY PRACTICES.
11	POTENTIAL FALLING OBJECT HAZARD	THE POTENTIAL FOR PERSONAL INJURY DUE TO FALLING OBJECTS MAY EXIST ON THIS SITE. WHERE WORK IS TO BE UNDERTAKEN AT HEIGHT, APPROPRIATE SIGNAGE, BARRIERS, PLATFORMS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED. ALL REQUIRED PERSONAL SAFETY EQUIPMENT SHALL BE WORN.

12	POTENTIAL FLAMMABLE SUBSTANCE HAZARD	THE POTENTIAL FOR FIRE OR EXPLOSION DUE TO STORED FLAMMABLE SUBSTANCES OR TO CONSTRUCTION ACTIVITIES INVOLVING THESE SUBSTANCES MAY EXIST ON THIS SITE. WHERE FLAMMABLE SUBSTANCES ARE STORED OR USED ON THE SITE, APPROPRIATE HANDLING AND WORK PROCEDURES ARE TO BE IMPLEMENTED. APPROPRIATE SIGNAGE, BARRIERS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED.
13	POTENTIAL TREE HAZARD	WHEN TREE CLEARING WORK IS TO BE UNDERTAKEN, THE APPROPRIATE WORK PROCEDURES ARE TO BE IMPLEMENTED. APPROPRIATE SIGNAGE, BARRIERS AND OTHER SAFETY MEASURES, AS REQUIRED, SHALL BE ERECTED. THE WORK SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF THE PUBLIC OR OF SITE PERSONNEL.
14	GAS MAIN HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF UNDERGROUND GAS MAINS. THE LOCATION OF THE MAINS SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON-SITE DURING EXCAVATION WORK, IF REQUIRED.
15	UNDERGROUND COMMS HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF LIVE UNDERGROUND CABLES. THE CABLE LOCATION SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON-SITE DURING EXCAVATION WORK, IF REQUIRED.

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Approval no: DEV2019/1078
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Checked	D.INSLE	Date	27/09/2019
Designed	D.INSLE	Date	20/09/2019
Verified	C.FRANKLIN	Date	27/09/2019
Approved	RPEQ 5282	Date	15/10/2019

Client CENTRAL QLD UNIVERSITY
Project CQCUNT-19-34-DFM
NORTH ROCKHAMPTON BUILDING 81
R2019052-CI-0160
Title SAFETY IN DESIGN

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