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> Administration Office 64 - 66 Front St Mossman

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20 September 2023

 Enquiries:
 Jenny Elphinstone

 Our Ref:
 MCUC 2023\_5485/1 (Doc ID 1175010)

 Your Ref:
 AU006055/PR152792

Douglas Shire Council C/ RPS AAP Consulting Pty Ltd PO Box 1949 CAIRNS QLD 4870

Email: Owen.caddick-king@rpsgroup.com.au

Attention Mr Owen Caddick-King

Dear Sir

## Development Application for Material Change of Use for a Utility Installation (Water Supply Intake from Mossman River) At Gorge and Manjal Dimbi Roads Mossman Gorge and Mossman, On Land Described as Lot 6 on SP212661, Lots 1 and 4 on RP716977 and Road

Please find attached the Decision Notice for the above-mentioned development application.

Please quote Council's application number: MCUC 2023\_5485/1 in all subsequent correspondence relating to this development application.

Should you require any clarification regarding this, please contact Jenny Elphinstone on telephone 07 4099 9444.

Yours faithfully

*For* Paul Hoye Manager Environment & Planning

cc. State Assessment and Referral Agency (SARA) E: <u>CairnsSARA@dilgp.qld.gov.au</u>

encl.

- Decision Notice
  - Approved Drawing(s) and/or Document(s)
  - Concurrence Agency Response
  - Reasons for Decision
- Advice For Making Representations and Appeals (Decision Notice)



# **Decision Notice**

Approval (with conditions)

## Given under s 63 of the Planning Act 2016

Applicant Details					
Name:	Douglas Shire Council				
Postal Address:	C/ RPS AAP Consulting Pty Ltd Attention Owen Caddick-King PO Box 1949 Cairns Qld 4870				
Email:	Owen.caddick-king@rpsgroup.com.au				
Property Details					
Street Address:	<ul> <li>a. Lot 6 Gorge Road, Mossman Gorge;</li> <li>b. 1 &amp; 3 Manjal Dimbi Road Mossman;</li> <li>c. Road (Tenure Area 2 on GHD Drawing 42-21142-G003, Revision A, Dated 26 August 2020) being adjacent to Lot 6 Gorge Road, Mossman Gorge and 3 Manjal Dimbi Road, Mossman;</li> <li>d. Road (Tenure Area 3 on GHD Drawing 42-21142-G003, Revision A, Dated 26 August 2020) being adjacent to 1 and 3 Manjal Dimbi Road, Mossman; and</li> <li>e. Manjal Dimbi Road Mossman</li> </ul>				
Real Property Description:	a. Lot 6 on SP212661;				
	b. Lots 1 and 4 on RP716977;				
	<ul> <li>Road (Tenure Area 2 on GHD Drawing 42-21142-G003, Revision A, Dated 26 August 2020) being adjacent to Lot 6 Gorge Road, Mossman Gorge and 3 Manjal Dimbi Road, Mossman;</li> </ul>				
	<ul> <li>Road (Tenure Area 3 on GHD Drawing 42-21142-G003, Revision A, Dated 26 August 2020) being adjacent to 1 and 3 Manjal Dimbi Road, Mossman; and</li> </ul>				
	e. Manjal Dimbi Road Mossman.				
Local Government Area:	Douglas Shire Council				

## **Details of Proposed Development**

Development Permit for Material Change of Use for a Utility installation for an additional water supply intake and associated intake infrastructure extracting water from a branch of the Mossman River.

Decision	
Date of Decision:	20 September 2023
Decision Details:	Approved (subject to conditions)

# Approved Drawing(s) and/or Document(s)

Copies of the following plans, specifications and/or drawings are enclosed.

The term 'approved drawing(s) and/or document(s) or other similar expressions means:

Drawing or Document	Reference	Date	
Drawing cover sheet and drawing list	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-G001, Revision C.	26 August 2020	
Compilation plan and notes	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-G002, Revision B.	14 January 2020	
Land tenure procurement	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-G003, Revision A.	26 August 2020	
Process and instrumentation diagram	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-J001, Revision C.	26 August 2020	
Mossman river intake site general arrangement	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W001, Revision B.	14 January 2020	
Submerged gallery intake and low lift pump station - plan	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W002, Revision C.	26 August 2020	
Submerged gallery intake sections and details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W003, Revision C.	26 August 2020	
Low lift pump station Plan and sections	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W004, Revision B.	26 August 2020	
High lift pump station site general arrangement	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W010, Revision C.	26 August 2020	
High lift pump station dimensional drawing	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W011, Revision C.	26 August 2020	

Drawing or Document	Reference	Date
High lift pump station pipework schedule - sheet 1	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W012, Revision C.	26 August 2020
High lift pump station pipework schedule - sheet 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W013, Revision C.	26 August 2020
High lift pump station pipework sections and details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W014, Revision B.	26 August 2020
High lift pump station tank details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W015, Revision B.	26 August 2020
High lift pump station overflow and flow meter details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W016, Revision B.	26 August 2020
Low lift raw water main plan and longitudinal section	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W020, Revision C.	26 August 2020
High lift raw water main plan and longitudinal section sheet 1	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W021, Revision C.	26 August 2020
High lift raw water main plan and longitudinal section sheet 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W022, Revision C.	26 August 2020
Raw water main details (rex interconnection, air, scour)	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-W023, Revision C.	26 August 2020
Structural notes sheet 1	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S001, Revision B.	14 January 2020
Structural notes sheet 21	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S002, Revision B.	14 January 2020
Typical structural details and pipe supports	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S003, Revision A.	26 August 2020
Low lift pump station slab plans and details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S005, Revision B.	26 August 2020

Drawing or Document	Reference	Date
High lift pump station slab plans and details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S010, Revision A.	17 January 2020
High lift raw water main thrust restraint details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-S020, Revision A.	17 January 2020
Access road typical sections and details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-C001, Revision A.	14 January 2020
Access road control line setout	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-C002, Revision A.	14 January 2020
Access road plan & longitudinal section - sheet 1 of 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-C003, Revision A.	14 January 2020
Access road plan & longitudinal section - sheet 2 of 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-C004, Revision A.	14 January 2020
Access road drainage sections	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-C005, Revision B.	31 August 2020
Electrical services site layout, legend and notes.	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-E001, Revision C.	14 January 2020
Electrical services schematics	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-E002, Revision B.	14 January 2020
Electrical services telemetry (scada) - sheet 1 of 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-E003, Revision C.	14 January 2020
Electrical services telemetry (scada) - sheet 2 of 2	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-E004, Revision B.	14 January 2020
Electrical services details	GHD, Project Mossman Alternative Raw Water Intake, Drawing 42- 21142-E005, Revision A.	14 January 2020
Mossman Proposed Water Intake Potential Disturbance Footprints	RPS Drawings PR152792-6b, 7b, 8b & 9b.	3 April 2023
Rehabilitation Plan, Mosman Water Intake	RPS report AU006055.003, Version 01	26 July 2023

## Conditions

- 1. Carry out the approved development generally in accordance with the approved drawing(s) and/or document(s), and in accordance with:
  - a. The specifications, facts and circumstances as set out in the application submitted to Council; and
  - b. The following conditions of approval and the requirements of Council's Planning Scheme and the FNQROC Development Manual.

Except where modified by these conditions of approval.

## Timing of Effect

2. The conditions of the Development Permit must be effected prior to Commencement of use, except where specified otherwise in these conditions of approval.

## Lighting to Infrastructure

3. All lighting installed upon the premises, such as that available during the night for emergency and afterhours maintenance including car parking areas must be certified by Ergon Energy (or such other suitably qualified person). The vertical illumination at a distance of 1.5 metres outside the boundary of the fenced infrastructure facilities must not exceed eight (8) lux measured at any level upwards from ground level.

## Noise attenuation

4. The aboveground pumps and associated machinery must be attenuated where determined necessary. A report prepared by a qualified Acoustical Consultant must be submitted prior to the commencement of work to the satisfaction of the Chief Executive Officer. The report must indicate design and construction features to be incorporated, if required, in the development to ensure that the development is acoustically insulated having regard to the provisions of the Environmental Protection Act 1994, Environmental Protection (Noise) Policy 2008. Regard must be given to existing uses and proposed future sensitive uses in the nearby area.

## Finish of Above Ground Pipes.

5. The exterior finishes and colours of the above ground water supply pipework must be non-reflective and must blend with the natural colours of the surrounding environment.

## Erosion and Sediment Control Strategy

- 6. All earthworks must be carried out in accordance with section CP1.13 and D5 of the FNQROC Development Manual and must comply with the following:
  - a. Measures nominated in the ESCP must be implemented prior to commencement of any earthworks.
  - b. The ESC Plan must address the Institution of Engineers' Australia Guidelines for Soil Erosion and Sediment Control and the Environment Protection (Water) Policy and Clauses CP1.06, CP1.13 and D5.10 of Council's FNQROC Development Manual.

## Acid Sulfate Soil Treatment

7. The proposed development may result in disturbance of potential acid sulfate soils (PASS). Prior to excavation, in association with a geotechnical assessment, an acid sulfate soil investigation must be undertaken. The investigation must be performed in accordance with the latest '*Guidelines for Sampling and Analysis of Lowland Acid Sulfate Soils in Queensland*' produced by the Department of Natural Resources and Mines (previously DNRW), and State Planning Policy 2/02 – Planning and Managing Development Involving Acid Sulfate Soils. Where it is found that PASS exist, treatment of soil must be undertaken on-site to neutralise acid, prior to disposal as fill, in accordance with the DNRM '*Queensland Acid Sulfate Soil Technical Manual*'.

## Earthworks

8. Earthwork is permitted between the hours of 6:30am and 6:30pm Monday to Saturday. Earthwork is not to occur on Sundays or Public Holidays.

## Remediation

9. Within six months of the commencement of use of the Applicant must have completed the vegetation rehabilitation as per the Rehabilitation Plan, Mosman Water Intake, RPS report AU006055.003, Version 01 dated 26 July 2023 to the satisfaction of the Chief Executive Officer.

## Lawful Point of Discharge

10. All stormwater from the property must be directed to a lawful point of discharge such that it does not adversely affect surrounding properties or properties downstream from the development, all to the requirements and satisfaction of the Chief Executive Officer.

## Advices

- 1. All building site managers must take all action necessary to ensure building materials and / or machinery on construction sites are secured immediately following the first cyclone watch and that relevant emergency telephone contacts are provided to Council officers, prior to commencement of works.
- 2. This approval does not negate the requirement for compliance with all other relevant Council Local Laws and other statutory requirements.
- 3. The applicant is recommended to consider the following matters in respect to the proposed works in the road over and adjacent to the sugarcane railway crossover:
  - a. The construction of the upgraded access over the sugarcane railway crossing be designed to the standard of the DTMR Drawing 881 Cane Railway Crossing (asphalt paved)
  - b. The construction of the new water supply under the sugarcane railway crossing be designed to consider future loads above (sugarcane train fully loaded) and any subsidence below to the extent the vertical and horizontal alignments of the railway are to the satisfaction of the railway operator and have RPEQ certification.
  - c. The timing of construction over and under the sugarcane railway is in consultation with the Mossman Mill to ensure the ongoing rural activity is not disrupted. The construction of this part of the work may need to be out of sequence to ensure minimal disruption to the ongoing use of the railway.
- 4. For information relating to the *Planning Act 2016* log on to <u>https://planning.dsdmip.qld.gov.au/</u>. To access the *FNQROC Regional Development Manual*, Local Laws, the Douglas Shire Planning Scheme and other applicable Policies log on to <u>www.douglas.qld.gov.au</u>.

Not applicable

## **Concurrence Agency Response**

Concurrence Agency	Concurrence Agency Reference	Date	Doc ID
State Assessment Referral Agency	2308-36116 SRA	12 September 2023	1183727

**Note** – Concurrence Agency Response is attached. This Concurrence Agency Response maybe amended by agreement with the respective agency.

## Currency Period for the Approval

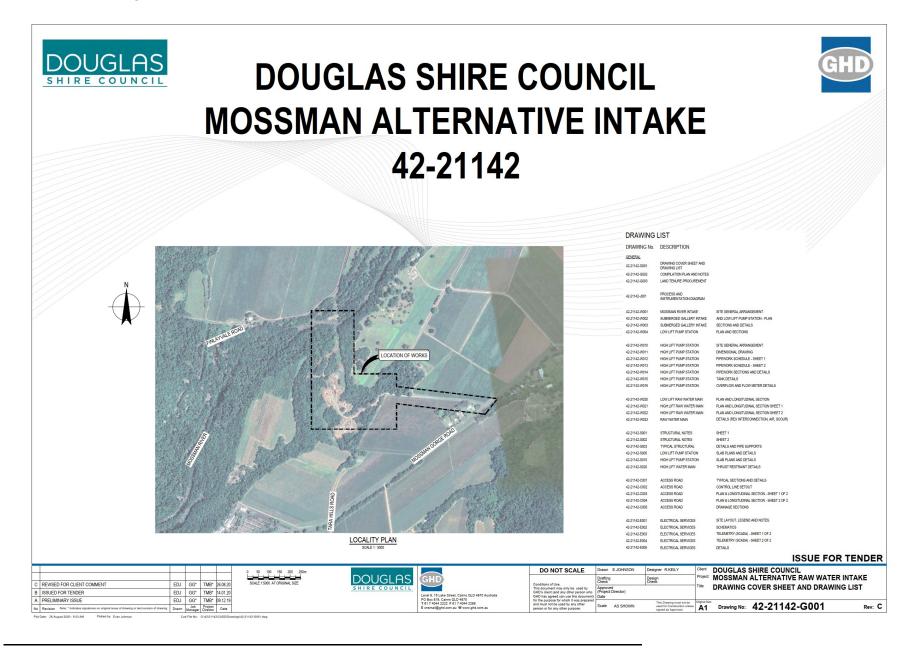
This approval, granted under the provisions of the *Planning Act 2016*, shall lapse six (6) years from the day the approval takes effect in accordance with the provisions of Section 85 of the *Planning Act 2016*.

## Rights to make Representations & Rights of Appeal

The rights of applicants to make representations and rights to appeal to a Tribunal or the Planning and Environment Court against decisions about a development application are set out in Chapter 6, Part 1 of the *Planning Act 2016*.

A copy of the relevant appeal provisions is attached.

Approved Drawing(s) and/or Document(s)



	STANDARD DRAWINGS
DRAWING No.	DESCRIPTION
FNQROC STANDARE	DRAWINGS
S1027	SECURITY FENCING
S1046	EXCAVATION, BEDDING AND BACKFILLING OF CONCRETE PIPES
\$1075	CONCRETE PIPE HEADWALL 375mm TO 675mm
S1085	CONCRETE HEADWALL WING WALLS AND APRON
\$2000	VALVE BOX INSTALLATION
S2001	AIR VALVE (25mm GATE VALVE)
S2010	KERB AND ROAD MARKERS
S2011	STEEL MARKER POSTS
S2016	WATER RETICULATION BEDDING DETAILS
SOUTH EAST QUEE	VSLAND WATER STANDARD DRAWINGS
SEQ-WAT-1206-1	TYPICAL THRUST AND ANCHOR BLOCKS FOR VALVES

#### SURVEY NOTES

1.	CONTRACTOR TO LOCATE ALL LEVELS FROM ESTABLISHED PERMANENT SURVEY MARKS.
2.	IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE RELEVANT AUTHORITIES TO
	CONFIRM THE LOCATION AND DEPTH OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF
	WORKS.
3.	SURVEY SUPPLIED BY RPS AUSTRALIA EAST Pty Ltd.

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   UNE TO LIMITED SURVEY SOME FEATURES HAVE BEEN ASSUMED. IT IS THE CONTRACTORS
   RESPONSIBILITY TO LOCATE ACCURATELY ALL FEATURES PRIOR TO CONSTRUCTION.

## GENERAL

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- APPROVALS. 4. IN ACCORDANCE WITH LEGISLATION, THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF ALL WORKERS ON SITE AND THE SAFETY OF MOTORISTS, CYCLISTS AND PEDESTRIANS TRAVERSING
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- 12. REFER TO THE SPECIFICATION FOR HOLD POINT WITHIN THE CONTRACT AND FOR SPECIFIC
- REPERT OF THE SPECIFICATION FOR HELP OWN WITHIN THE DURINGCE AND FOR SPECIFIC CONSTRUCTION METHODOLOGY.
   THE CONTRACTOR IS REQUIRED TO WORK WITHIN A WATERCOURSE AND UNDERTAKE SIGNFICANT CONSTRUCTION WORKS. THE CONTRACTOR SHALL LIMIT THE AMOUNT OF EXCAVATION AND CLEARING WITHIN THIS AREA. REFER SPECIFICATION.

- SERVICES 1. THE LOCATIONS OF ALL EXISTING SURFACE PITS, VALVE COVERS, ETC. SHOWN ON DRAWINGS HAVE BEEN REPRODUCED FROM INFORMATION FROM A NUMBER OF SOURCES. ALL EXISTING SERVICES LOCATIONS SHALL BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING WORK, ANY EXISTING SERVICES
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- SERVICES AND ARRANGE FOR THEIR RELOCATION WHERE NECESSARY. SERVICES AND ARMANGE FUR THEIR RELOCATION WHERE RECESSART. 3. ALL SERVICES ARE TO BE PROTECTED DURING CONSTRUCTION. ATTENTION IS DRAINN TO MINIMUM COVER REQUIREMENTS OVER EXISTING SERVICES. IN THE CASE OF PROPOSED SERVICES, FILL TO MINIMUM REQUIRED DEPTH ABOVE THE TOP OF THE SERVICE PRIOR TO TRENCH EXCAVATION.

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# EROSION AND SEDIMENT CONTROL

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- CONTRACTOR SHALL NOMINATE A PROPOSED ACCESS LOCATION ON THE ESC PLAN FOR APPROVAL BY THE SUPERINTENDENT SUPERINTENDENT. STOCKPILES SHALL ONLY BE LOCATED IN AREAS NOMINATED ON THE PROJECT DRAWINGS OR APPROVED BY
- THE SUPERINTENDENT, ALL STOCKPILES MUST HAVE APPROPRIATE ESC MEASURES INSTALLED TO PREVENT SEDIMENT TRANSPORT. THE MAXIMUM HEIGHT OF ALL STOCKPILES MUST BE LIMITED TO 2.0m. ALL PERMANENT AND TEMPORARY UNLINED SWALES AND DRANS TO HAVE APPROPRIATE TEMPORARY
- EROSION PROTECTION. 8. ALL PARTIALLY CONSTRUCTED DRAINAGE STRUCTURES TO BE PROTECTED AGAINST SEDIMENT INFILTRATION
- ALL YAN INLET COMBINIES EDWINNES BINCHLOES I VOE PHOTELE UNANNON SEMIENTI IMPLIN DARIA COMBINIES ALL COMPLETED DRAINAGE STRUCTINES TO BE PROTECTED AGAINST SEMIENTI INFLITATION LIVITI GRASINGI ISESTALISTED. ALL INSTRUEED ARCAS FLATTET THAN 1 ON 2 AND NOT UNDER ROAD PAVENENT OR PATHWAY MUST BE TOPOLICE JANG ORAS SEEDED ALL DISTURBED AREAS I ON 2 OR STEEPER MUST BE TOPOLICE JANG ORAS ECOMOLITALISTED

- - DRAINAGE

DOUGLAS

ALL REINFORCED CONCRETE PIPES SHALL BE CLASS 2 UNLESS NOTED OTHERWISE

EARTHWORKS

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- ALL REINVALED CONVALETE PIPES SHALL BE CLOSE & UNICES IN USED IN REVISE ALTENNATIVE MERIAL TYPES SUCH A SHIPE OR RFS UNITED SHALESECT TO SUPERITIFICIENTISCOUNCIL APPROVAL ECONATION, BEROIG AND BACKFLL FOR CONCRETE PIPES SHALL BE CARRIED OUT IN ACCORDANCE WITH INVERSO STANDARD DRAWING SHIM. ALL CAST-INSTITUE HORING. STANDARD DRAWING SHIM. DRG'S S1075 & S1085. D

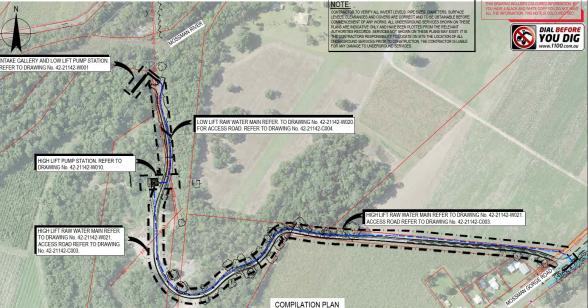
Cairns QLD 4870 Australia

PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE COUNCIL WITH THE FOLLOWING INFORMATION RELATING TO IMPORTED QUARRY MATERIAL, FOR

c. In the submet of counters users are provided in the counters of the counter of the counters of the count

SOURCE OF QUARRY MATERIAL AS A IMMUMU INEAR SHRWAGE (LS), PLASTICITY INDEX (PI), GRADING, AND 4 ADY SOARE OER (FROM NATA APPROVED LABORATORY), SOURCED FROM RELEVANT QUARRY STOCKPLE AND OTHER MATERIAL TESTING FOR DIRECTED BY SUPERIVIED/BUT OC OXPIRIM MATERIAL IS COMPLUARY INT IN MISSI

IF THE SOURCE OF QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, NEW TEST RESULTS SHALL BE PROVIDED AT THE CONTRACTORS COST.



## PAVEMENT AND SURFACING PAVEMENT AND SURFACING TO BE CONSTRUCTED ACCORDING TO FNOROC ROAD PAVEMEN SPECIFICATION, UNLESS OTHERWISE STATED WITHIN OR AS DIRECTED BY SUPERINTENDENT

- SIGNAGE IGNS TO BE REMOVED AND REINSTATED TO SUIT NEW ACCESS ROAD CONSTRUCTION LINE MARKING SHALL BE IN ACCORDANCE WITH TWR MUTCD STANDARDS

- CONTRACTOR TO SUPPLY AND ERECT ALL RELEVANT STREET SIGNAGE.

- PIPEWORK NOTES
  1. INSTALLATION OF THE PIPELINE SHALL BE IN ACCORDANCE WITH FNOROC STANDARD
- SUPERINTENDENT TO CONFIRM TYPE AND LOCATION
- SUPERINTERIDENT TO COMPRENT TYPE AND LOCATION. SEPRARTION BETREWIN WATER MAINS AND OTHER UTILITIES SHALL BE IN ACCORDANCE WITH TABLE 55 ON DRAWING NA. 423142/W020. TEST ALL PREVAIES AND EQUIPMENT IN ACCORDANCE WITH THE SPECIFICATION. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS AND VALVES REQUIRED FOR TESTING ALL PREVINES AND EQUIPMENT.
- PROVIDE AIR VALVES AT ALL HIGH POINTS WITHIN THE PIPELINES AS PER DESIGN

Scale AS SHOWN

- ALL FLINKS SHALL BE LIOUASS HAS ALL FLANGES TO BE TO AS4087 AND PRESSURE RATED AS NOTED ON DRAWINGS. ALL FLANGED JOINTS TO HAVE S.S. GRADE 316 BOLTS, NUTS, WASHERS AND GASKETS TO
- N.O. In THICK PUPE TO BE WRAPPED WITH LOOSE POLYETHYLENE SLEEVING 0.25mm THICK
- AD COLOURED FOR WATER SUPPLY AND TO AS 3580 U.N.O. WRAPPING AND TAPPING SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PIPE MANUFACTURERS RECOMMENDATIONS.

# OF 95 % HAUTURE, SURGE LISTERU, SUTALE 44 GOERAL FLL. GLENING AND GREENEN SHALL COLTA. FLL COMMENDIALIENT OF WORKS TO THORDON EARTHINGS SECONDATION. TO RECENT THE STOCHAET OF MORKS TO THORDON EARTHINGS SECONDATION. TO RECENT THE STOCHAET OF MORKS TO THORDON THOM SECONDATION SHALL BE REMOVED WITHOUT PROGRAMMOUNT OF THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. OF THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND. THE SUFFERINT HOUSEN MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND THE SUFFERINT HALL BERTHNOODS MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND THE SUFFERINT HALL BERTHNOODS MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND THE SUFFERINT HALL BERTHNOODS MO VISION SHALL BE REMOVED WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND WITHOUT PROGRAMMOUND WITHOUT PROGRAMOUND WITHOUT PROGRAMOUND WITHOUT PROGRAMOUND WITHOUT PROGRAMOUND WITHOUT PROGRAMO

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DO NOT	SCALE	Drawn	E.JOHNSON	Designer	R.KEILY	Client		UGLAS SHIRE COUNCIL		
D A D D R P F	ABBREVIATIONS           DM         -NORMA; DUALETER           A0: -ARSISTO GENERT           DG         -ROUTE ERON CENTURED           RD         -ROUTE ERON CENTURED           RN         -ROUTE ERON CENTURED           ROUTE - RO						BERRED IN ACCORDANCE WITH SEG STANDARD ORANINGS TO SUIT EARMIN CARACITY     STAINLESS STEEL PIPEWORK NOTES     1. ALL STAALESS STEEL INFORMATION THINGS TO GRAVE STUL UNIG     1. ALL ANALESS STEEL INFORMATION THINGS TO GRAVE STUL UNIG     1. ALL ANALESS STEEL INFORMATION THINGS TO GRAVE     1. ALL ANALESS STEEL INFORMATION THINGS TO GRAVE     1. ALL ANALESS STEEL INFORMATION THINGS TO ADDR     1. ALL ANALESS STEEL INFORMATION THINGS THE ADDR     1. ALL ANALESS AND ANALESS AND ADDR     1. ALL ANALESS AND ANALESS     1. ALL ANALESS AND ANALESS AND ADDR     1. ALL ANALESS AND ANALESS     1. ALL ANALESS     1. ALL ANALESS AND ANALESS     1. ALL			
EN ALTERNATIVELY, ZINALUM PIPEWORK MAY BE USED IN ACCORDANCE WITH AS 2280. 7. PROVIDE WRAPPING OF BOLTS AND CONNECTIONS IN ACCORDANCE WITH MANUFACTURERS SPECIFICATION.						NOMINATED ON THE DESIGN DRAWINGS. 7. ASSILMED MAXIMUM BERNING CAPACITY IS 50 KPa. CONTRACTOR SHALL ASSESS EACH BLOCK AND REVIEW BEARING PRESSURE AS REQUIRED. THRUST BLOCKS FOR THE LOW LIFT WATER MAIN CAN				

Has agreed can use this docume e purpose for which it was prepar tust not be used by any other n or for any other purpose

IN DUSING THE PITTINGS SHALL BE THE SAME RATING AS PER PIPE. NOTALIATION OF POLYETHYLENE PIPE SHALL BE THE SAME RATING AS PER PIPE. NOTALIATION OF POLYETHYLENE PIPE SHALL BE IN ACCORDANCE WITH POLYETHYLENE PIPE AND FITTINGS FOR PRESSURE APPLICATION SHALL BE IN ACCORDANCE WITH Use barking shall be in AUDERANCE WITH TIM MINITO STANDARDS Laboration Benchmark Shall be an AUDERANCE WITH TIM MINITO STANDARDS and a standard benchmark and a standard benchmark and a standard benchmark ALL STREET STORE STORE MERILED WITH A MINIMUM REPUND CLEARANCE OF 2.5m, MASINETO TO THE MERILED WITH A MINIMUM REPUND CLEARANCE OF 2.5m, MASINETO TO THE MERILED WITH A MINIMUM REPUND CLEARANCE OF 2.5m, MASINET STORE MERILED WITH A MINIMUM REPUND CLEARANCE OF 2.5m, MASINETO TO THE MERILED WITH A MINIMUM REPUND CLEARANCE OF 2.5m, MASINET STORE MERILED WITH A MIN ASIN28 4129 AND 4130. THE PIPELINE SHALL BE A FULLY CONTINUOUS INSTALLATION BETWEEN THRUST RESTRAINTS. THE PERSON UNDERTAINING THE JOINTINGWELDING OF POLYETHYLENE PIPES SHALL BE QUALIFIED. THE FORMAT WINDOW THE AUMITIMENTIAL OF POLICE INTERNET OF POLICE INTERNET PIPE'S SHALL BE QUALIFIED AS PER REQUIREMENTS OF WSA01-2004-3.1 ITEM 5.2 TESTING OF POLYETINLENE PIPE SHALL BE IN ACCORDANCE WITH WSA01-2004-3.1 SECTION 2.13 DEFLECT PIPES USING BENDING RADIUS WHERE REQUIRED TO ACHIEVE HORIZONTAL AND VERTICAL

POLYETHYLENE PIPEWORK NOTES

ALIGNMENT. MINIMUM BENDING RADIUS = 15 x DIAMETER.

THRUST BLOCK NOTES

A1 Drawing No: 42-21142-G002

ALL NEW POLYETHYLENE PIPEWORK TO BE PE100 CLASS PNIN MINIMUM U.N.O. AND MANUFACTURED IN ACCORDANCE WITH AS 4130 BY AN AUSTRALIAN STANDARDS QUALITY ENDORSED COMPANY. ALL

ALL PE STUB FLANGES AND BACKING RINGS SHALL BE SUITABLE FOR CONNECTION TO DICL FLANGES ALL TE OUD FLANCES AND BACKING FINAS SHALL BE SUITABLE FOR CONNECTION TO DUE, TAN AS NONMATED ON THE DESIGN DRAWINGS, CONTRACTOR TO PROVIDE GASKETS AND BOLTING SYSTEM TO SUIT THIS COMPECTION IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. DOE MECHANICAL TITINGS SHALL BE BUTT WELDED FOR THE WATER PPELNES AND DRAUCPER PRES.

ALL RE-PREINES USED FOR COMPRESSED AR SHALL BE FEITO PHILS COLURED BLLE AND CONSTRUCTED FORM PHES MANAPLACHINGS FEODFOLLY FOR COMPRESSED AN AD BE LABELED ACCORDINGLY AND COMPLYING WITH THE PLASTICS INDUSTRY PPE ASSOCIATION OF AUSTRUAL ALIMPTER AUGUSTRY GUELENSE. VL TRAVE PHPM SYSTEMS OF APPROVED EQUIVAL ALL FITTINGS SHALL BE PETOP INS MOLLED FUSION FITTINGS SUITABLE FOR USE COMPRESSED ARL IN USE CHANNEL FITTING SHALL BE ACCEPTED.

REFER TO LONGITUDINAL SECTIONS FOR CORRECT THRUST BLOCKS TO BE USED FOR EACH OF THE HIGH AND LOW LET WATER MANS. ALL THRUST BLOCKS FOR THE LOW LET WATER MAIN SHALL BE IN ACCORDANCE WITH SEQ STD

DRAWING SEQ-WAT-1205-1. ALL THRUST BLOCKS FOR THE HIGH LIFT WATER MAIN SHALL BE IN ACCORDANCE WITH DRAWINGS.

Rev: B

42-21142-S020 AND W023. STANDARD SEQ THRUST BLOCKS ARE NOT ACCEPTABLE FOR THE HIGH LET WATER MAIN. ALL THRUST BLOCKS TO BE CAST CENTRALLY ABOUT PIPE UNLESS DETAILED OTHERWISE ON THE

DESIGN DRAMINGS. THRUST BLOCK BEARING AREA TO BE PROVIDED AGAINST UNDISTURBED GROUND OR AS NOMINATED ON THE DESIGN DRAMINGS.

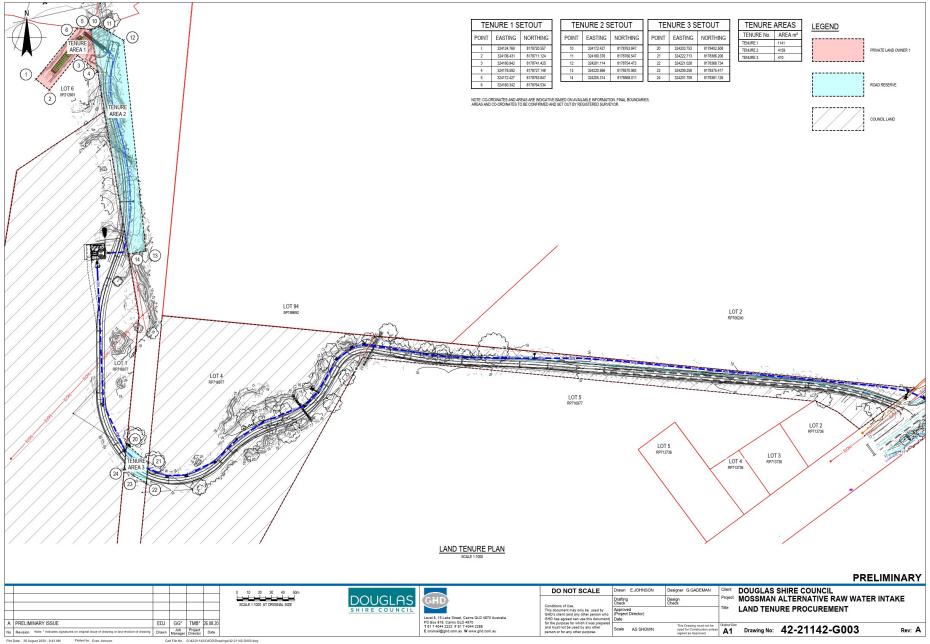
PROVIDE THRUST BLOCKS AT ALL UNRESTRAINED TEES. BENDS AND FITTINGS

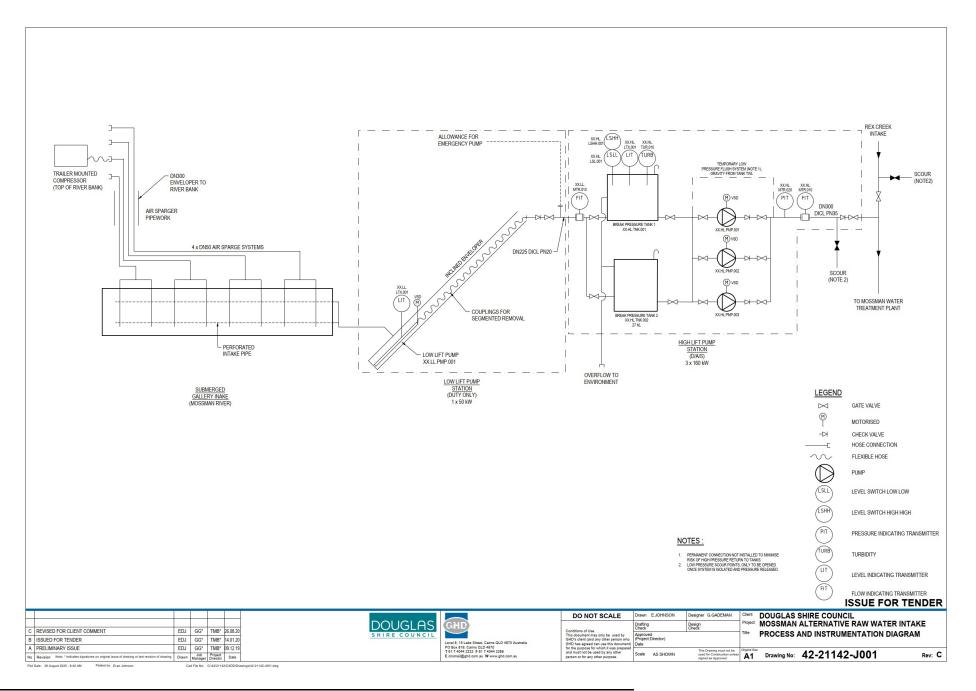
- ENVELOPER PIPES. 12. ALL PE PIPELINES USED FOR COMPRESSED AIR SHALL BE PE100 PN16 COLOURED BLUE AND

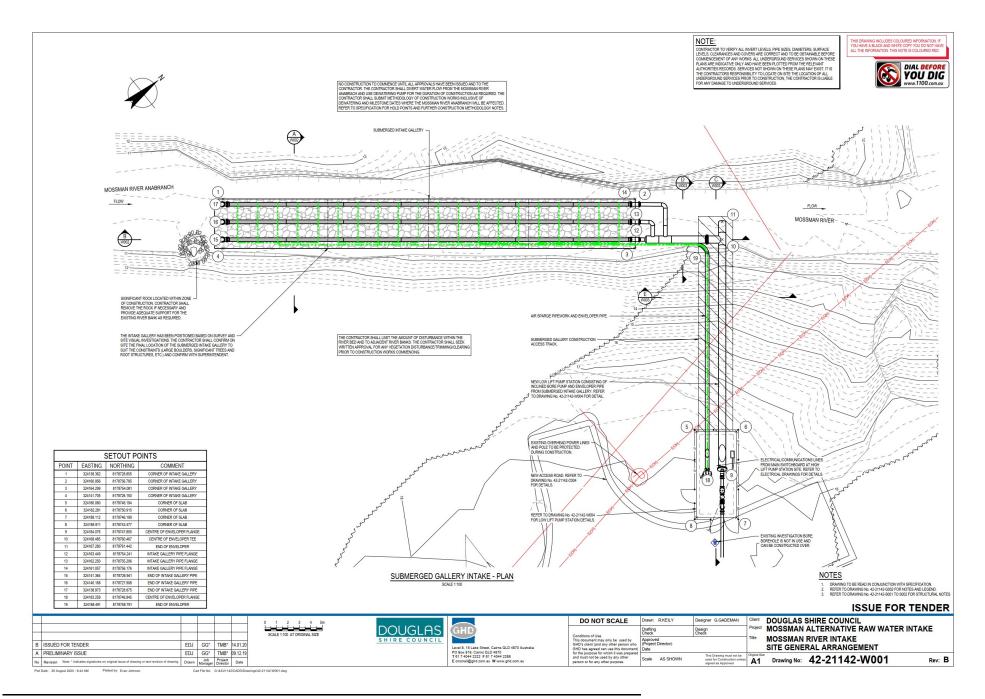
#### DUCTILE IRON PIPEWORK NOTES

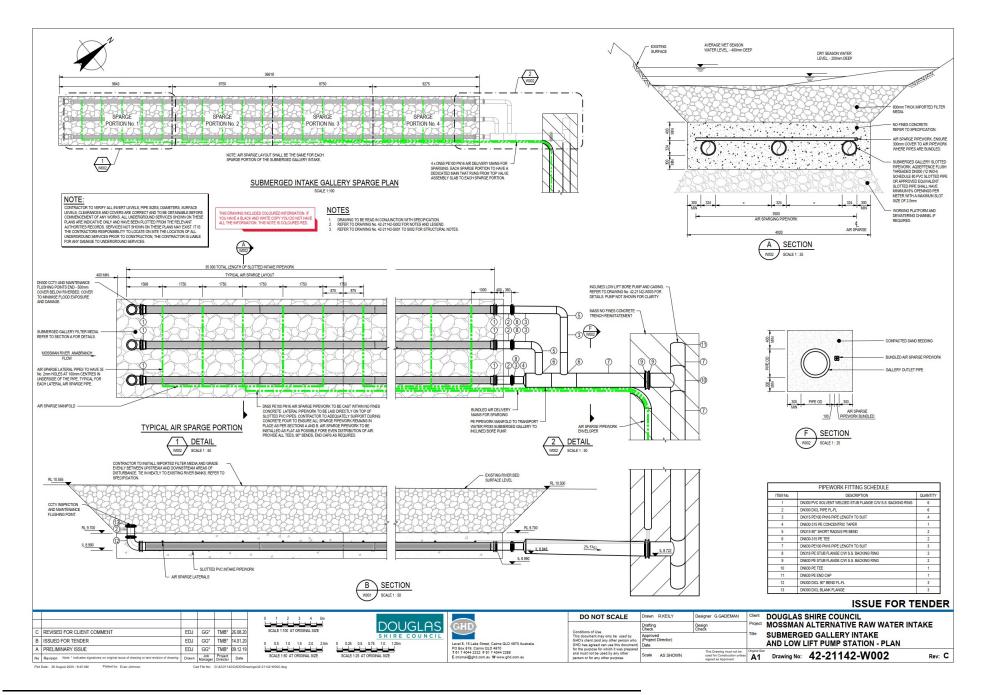
- ALL DUCTLE IRON PIPES SHULL BE IMMUFACTURED AND CEMENT LINED IN ACCORDANCE WITH AS 220 BY AN AUSTRALIAN STANDARDS FINCASED COMPANY. ALL DICI, FLANGED PIPENORK SHALL BE FLANGE CLASS UN O. ALL FITTINGS SHALL BE DICI, CLASS PIKS.

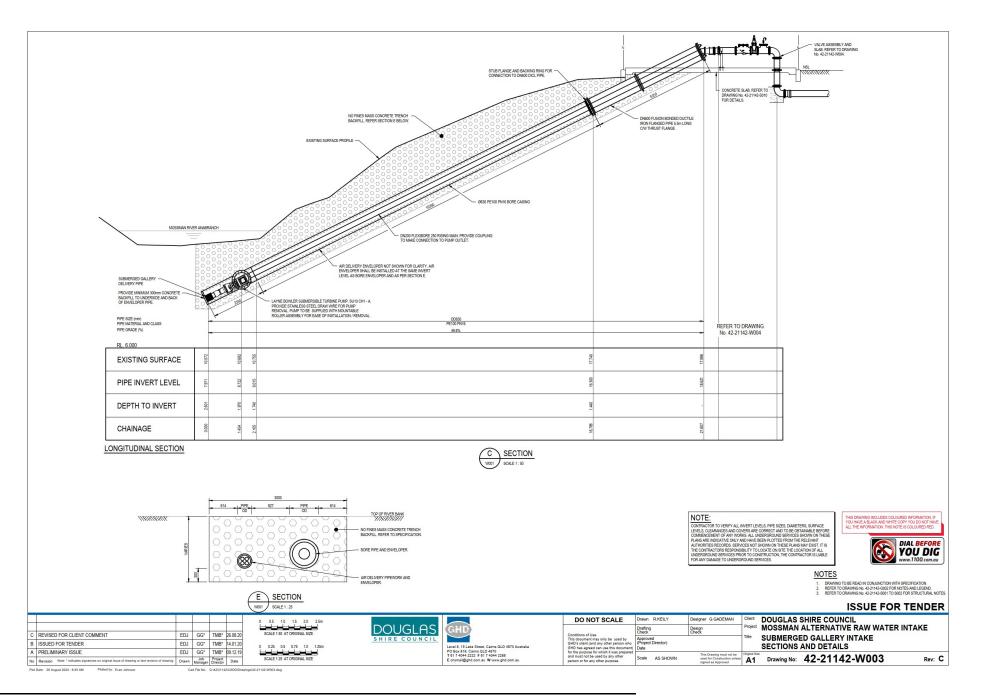
- ALTERNATIVELY, ZINALUM PIPEWORK MAY BE USED IN ACCORDANCE WITH AS 2280. PROVIDE WRAPPING OF BOLTS AND CONNECTIONS IN ACCORDANCE WITH MANUFACTURERS DEPENDENT ONE

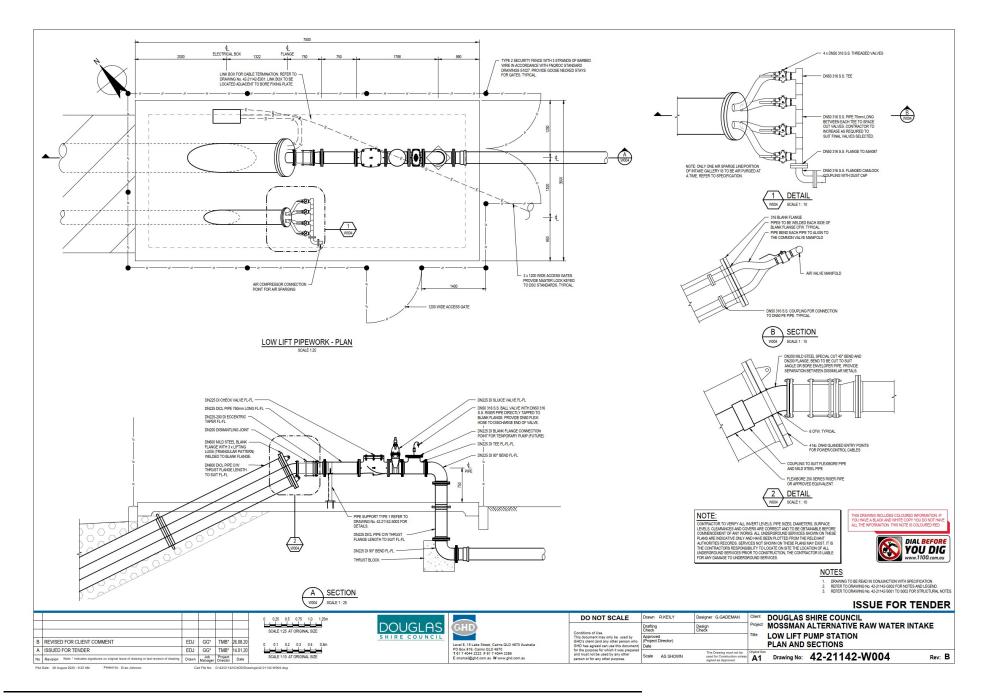


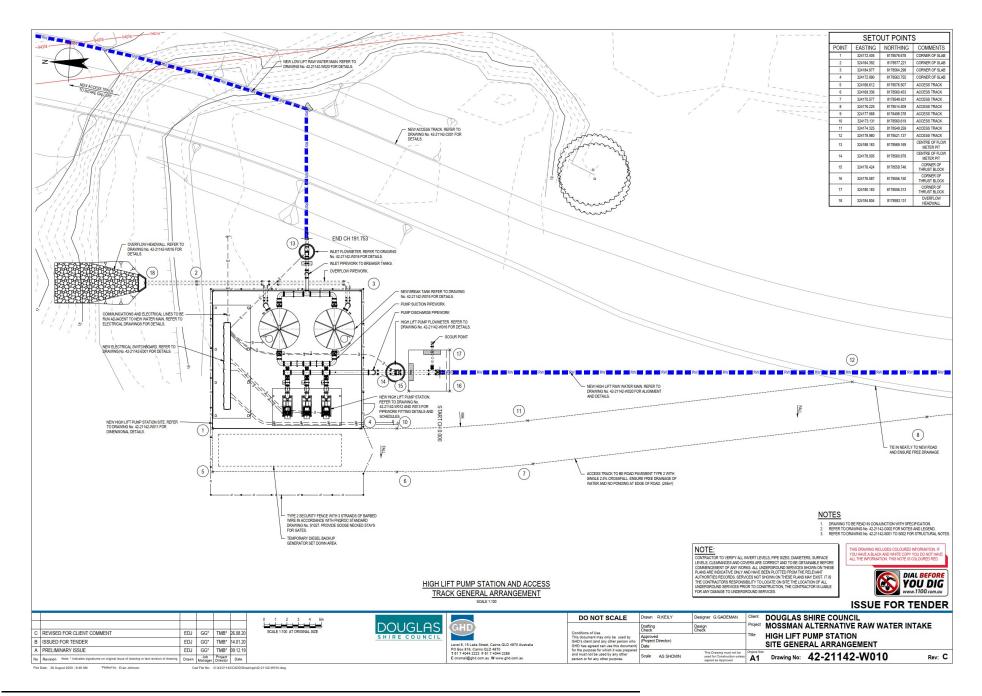


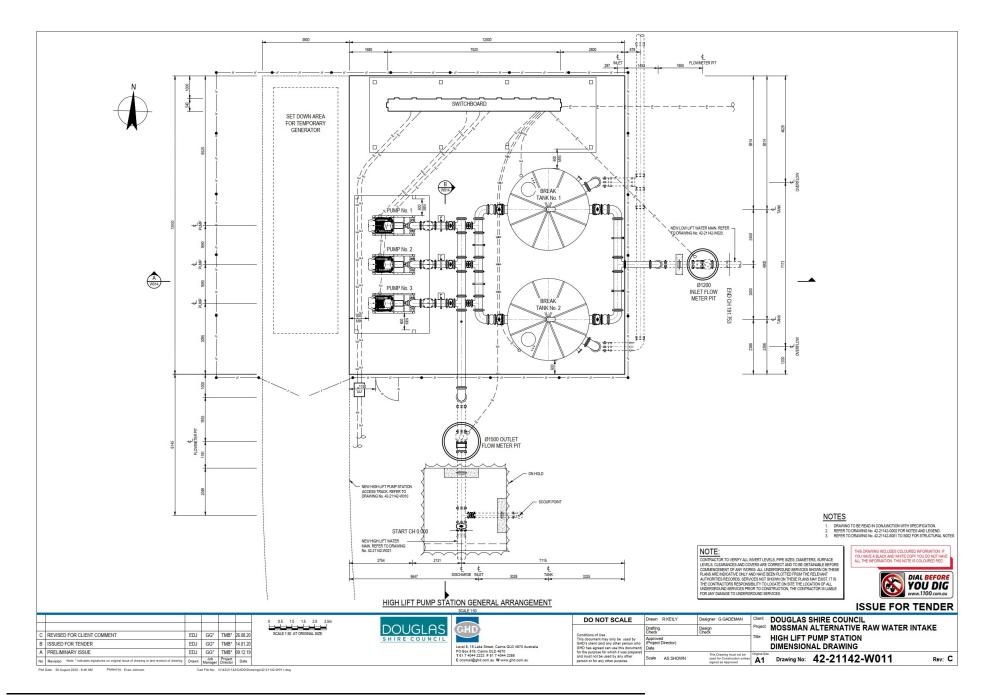


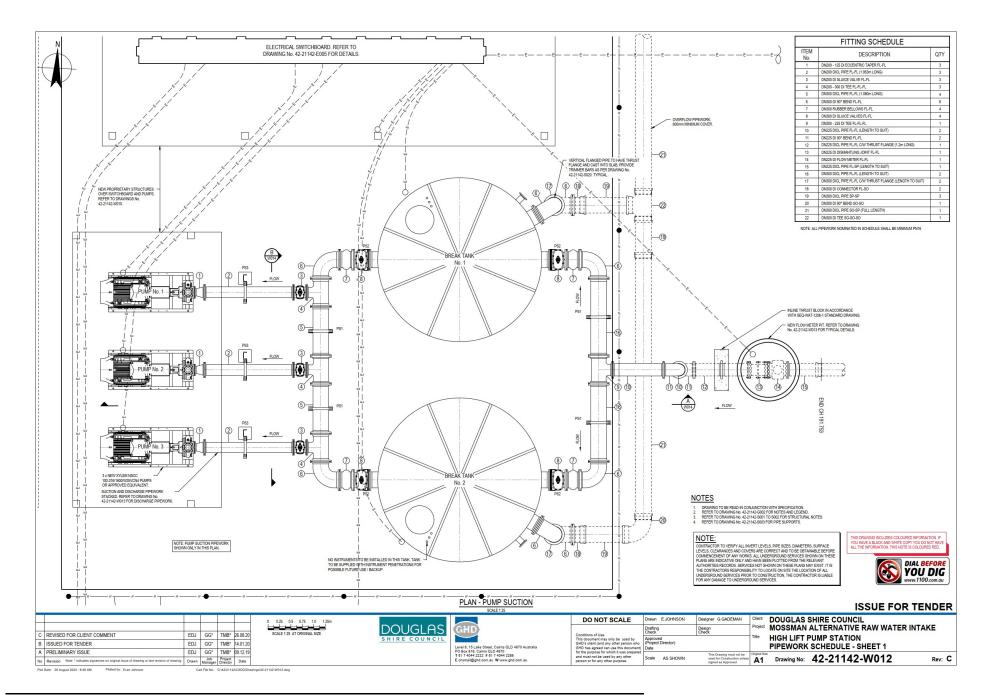


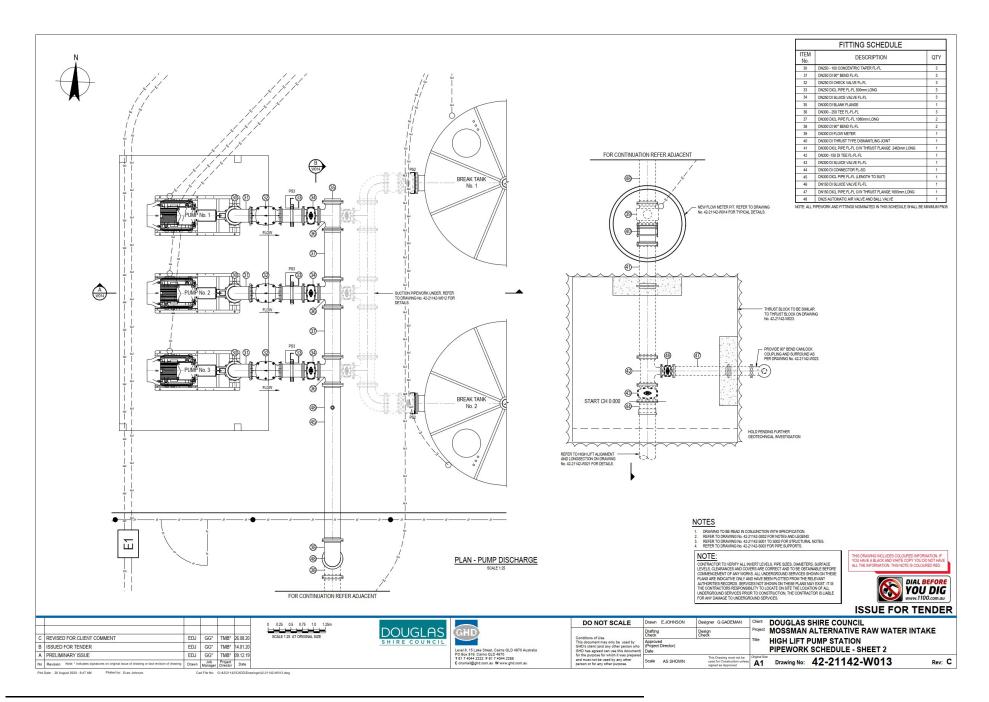


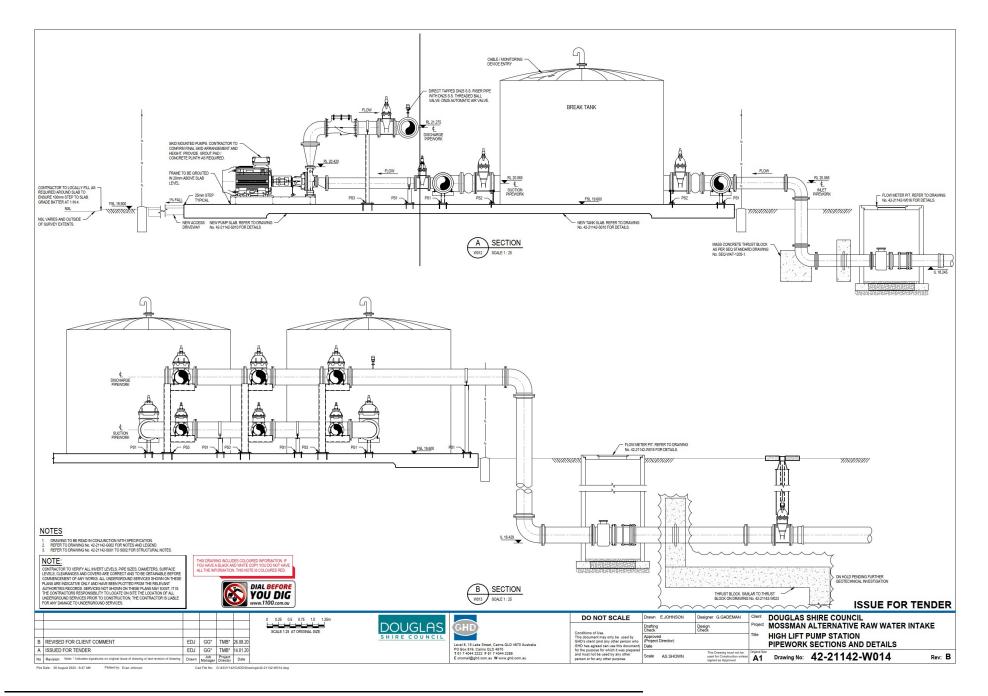


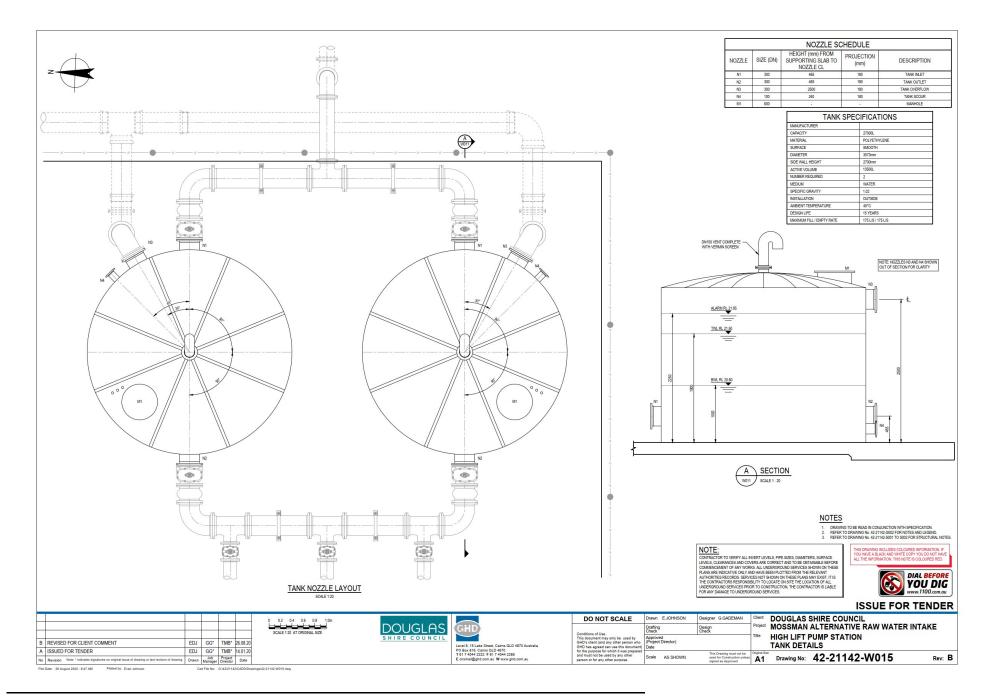


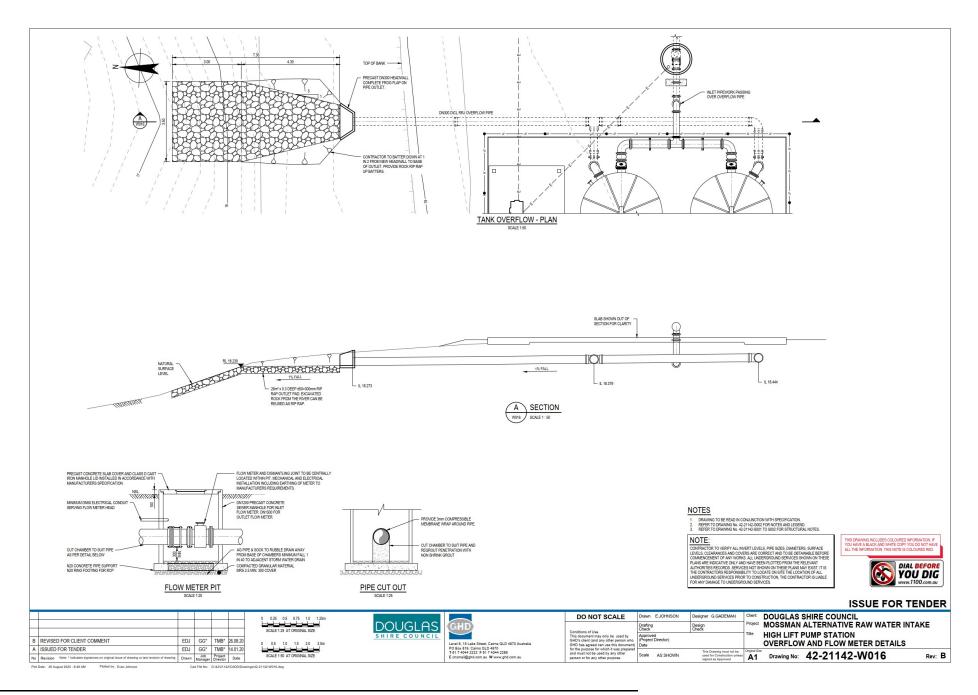


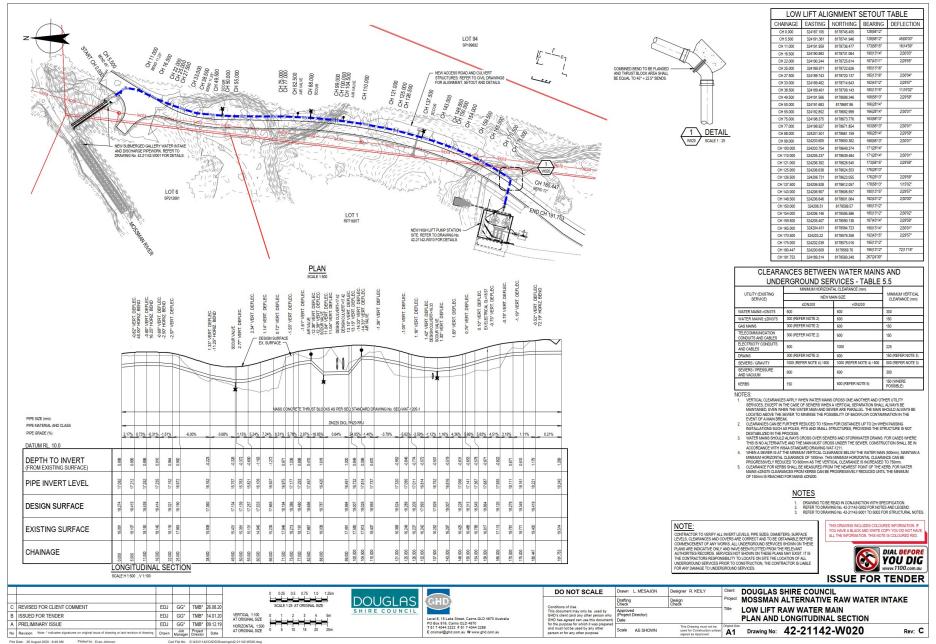


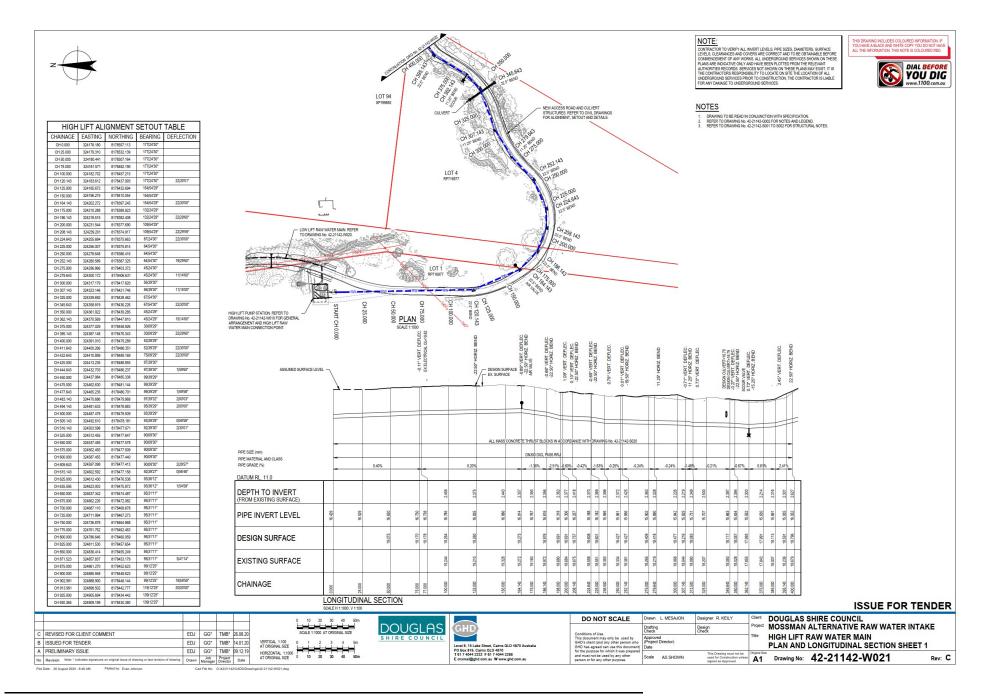


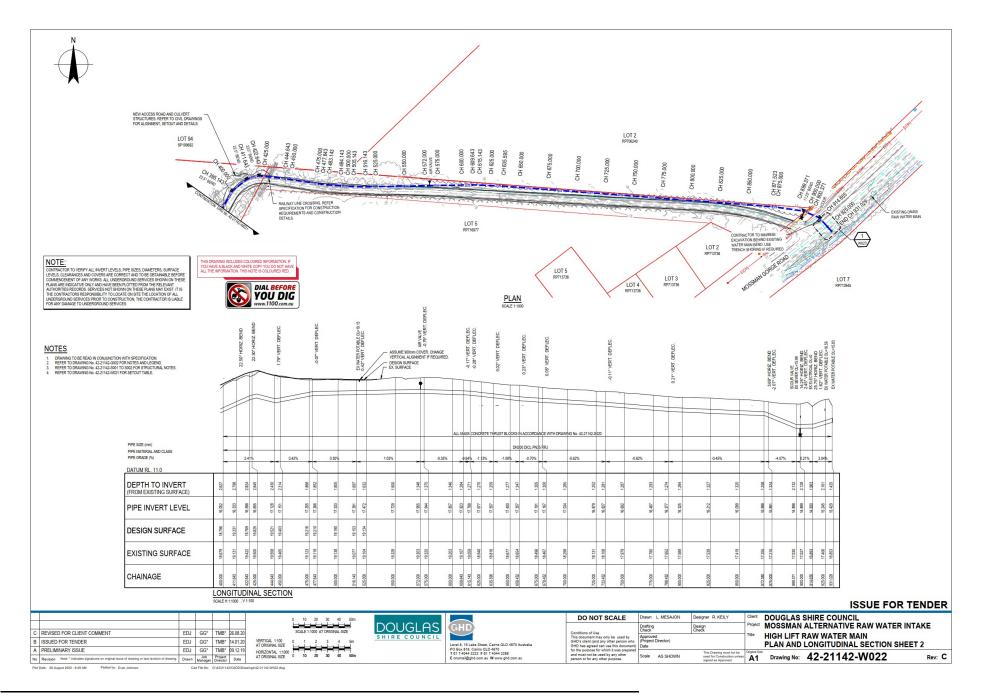


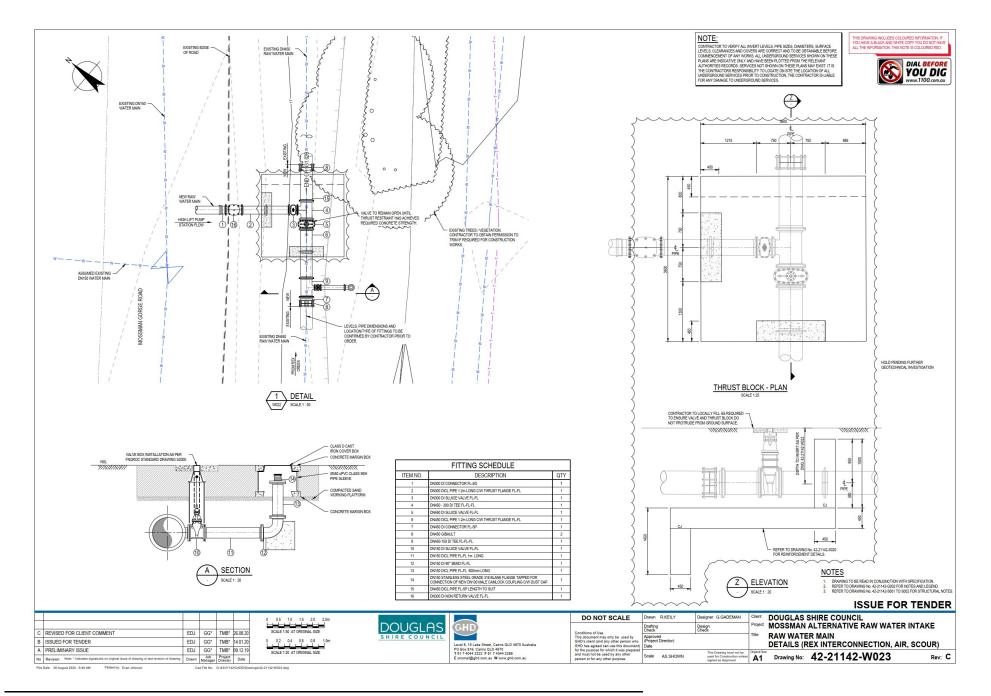












#### GENERAL

- G1 READ THESE NOTES IN CONJUNCTION WITH OTHER ENGINEERING DRAWINGS, PROJECT NOTES AND SPECIFICATIONS, AND WITH SUCH OTHER WRITTEN INSTRUCTIONS ISSUED. IN CASE OF DISCREPANCY, PRECEDENCE IS GIVEN TO DRAWINGS, THEN NOTES, THEN SPECIFICATION.
- Inducative Is untern to Lengwings, InterNOTES, THEIN SPECIFICATION. CERY OUT UNIN, IN A SPET NUMBER IN ACCORDANCE WITH APPLICIABLE LEGISLATION, STATUTORY REGULATIONS BY-LAWS OR RULES. CONTRACTOR IS RESPONSED FOR OCCUPATIONAL HEALT IN MOS FEETY OF SITE PERSONANE AND GENERAL PLACED IN ACCORDANCE WITH WORK HEALT AND SHETY AT 2010 LEGISLATIVE REQUIREDRING ASSOCIATED REGULATION AND COCES OF FRACTICE, IROUSTINAL AGREEMENTS DESER DISCIDENCE Y ON INDEXT AND REGULATIONS AND COCES OF FRACTICE. G2.
- REFER DISCREPANCIES TO SUPERINTENDENT BEFORE PROCEEDING WITH WORK. G3.
- G4. SUBMIT DETAILS OF CHANGES TO SCOPE, WORK METHODS OR MATERIALS #C FOR APPROVAL BEFORE PROCEEDING. APPROVAL DOES NOT AUTHORISE A VARIATION TO THE CONTRACT.
- G5.
- PROCEEDING, APPROVAL DOES NOT AUTHORISE A VARATION TO THE CONTRACT. DECK STRUCTURE, DRAWING AGAINST OTHER BONGERING DRAWINGS FOR REQUIREMENTS FOR PRETRIVITIONS, COMUNITS, DUITS, PRES, ME. PROFERENCE OF THE STRUCTURE PROFENSION OF THE STRUCTURE PROFENSION OF THE STRUCTURE PROFERENCE OF THE STRUCTURE AND ADDRESS AN G6.
- G7
- G8. GIVE TWO WORKING DAYS' (48 HOURS) NOTICE SO THAT INSPECTION MAY BE MADE OF CRITICAL STAGES OF
- G9. INSPECTIONS UNDERTAKEN BY SUPERINTENDENT OR OTHERS DO NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATION G10
- G11
- RESPONDENT FOR COMPARE WITH DAVIANCE SAN GECHTCH NANS. HAVE SURVEY AND SETING OUT UNDERSTANGE PAR REGISTERED SURVEYOR. VERIEY ON SITE SETTING OUT DIMENSIONS AND EXISTING MEMBER SZES SHOWN ON DRAWINGS BEFORE SHOP DRAWINGS. CONSTRUCTION AND FABRICATION IS COMMENCED. USE STANDARD BOLT PATTEREN BE, THROUGHOUT THE VORKIS TO AVOID CONFUSION OR AMBIGUITY. G12.
- G13 DISPOSE OF SURPLUS MATERIAL OFF SITE IN ACCORDANCE WITH LOCAL AUTHORITY WASTE REGULATIONS
- G15.
- G16.
- DIPPOSE OF SURFLUS MATERIAN COF SITE IN ACCORDANCE WITH LOCAL AUTHORITY WASTE REGULATIONS. INFLINEMENT SIG. AND WATER MANAGEMENT PROCEDURES TO ANDIE PROSING, CONTINUATION AND SEDIMENTATION OF SITE. SURFOLUCIONOS AREAS AND DIPAMAGE SYSTEMS. DIPAGEMENTATION OF SITE. SURFOLUCIÓN DI ANDIA DIPAGEMENTE DE PERSIÓN FILITARIA DE ADALEMENT SITUATION DI ALCALAND DI VILVA UNA DIPADIMENES DE PERSIÓN FILITARIA DE ADALEMENT STANAMOS RETERRED TO ARE HOGE CURRENT (SA RENDED) AL COMMENDATION NORK AND PROVINCE FOR REQUIRES FORMAS. PROVUE FOR TEMPOSITE SOR ADALEMENTS TO E FUERDO TO SUPERFETE ON NORK AND PROVINCE FOR REQUIRES DI NORK DENNO DE ONS DEVENTS DE FUERDATI SULTINES, NICERS, SACESSED DURING OFFENTIONES DO NO DI SON DE CALON DE ADALEMENTS DE FUERDATI SULTINES, NICESSES ESTA DURING DEVENTO DE PROVINCE FOR TEMPOSITE DE ADALEMENTS DE FUERDATI SULTINES, NICESSES ESTA DURING DEVENTIONES DO NO DI SON DE CALON DE PAGE PERSO DO NORKA NOR PROVINCE PROVINCENTES DO NORMAN DE CALON DE ADALEMENTS DO RESIDONES DURING DEVENTIONES DO NO DI SON DE CALON DE ADALEMENTS DE FUERDATI SULTINES, NICESSES ESTA DURING DEVENTIONES DO NO DEVENTO DE ADALEMENTA DE FUERDATI DE ADALEMENTA DE FUERDATI SULTINOS.
- MAKE GOOD ANY DAMAGE TO EXISTING ELEMENTS AT COMPLETION OF WORKS.
- G18 WHERE NEW WORK ABUTS EXISTING. PROVIDE SMOOTH TRANSITION FREE OF ABRUPT CHANGES.
- WHERE REPUTIDES RED IS LESS INC. FOR DEPENDENT INVESTIGATION FIELD FOR THE CONTROL FOR THE REPORT OF THE REPORT OF
- G20.
- BUILD, FABRICATE AND PROCURE ONLY FROM DRAWINGS ISSUED FOR CONSTRUCTION.
- SEPARATE METALS FROM INCOMPATIBLE MATERIALS (eg GALVANISED AND UNGALVANISED STEEL, TREATED TIMBER AND STEEL etc.) BY CONCEALED LAYERS OF SUITABLE INERT MATERIALS OF SUITABLE THICKNESSES. USE PLASTIC SLEVES AND WANGERS FOR BOLTS, etc. G22.
- 623 KEEP ON SITE & COMPLETE SET OF CONTRACT DOCUMENTS (INCLUDING DRAWINGS AND SPECIFICATIONS) AND SITE INSTRUCTIONS

#### TEMPORARY WORKS

THESE DRAWINGS DO NOT DETAIL TEMPORARY WORKS. CONSTRUCTION METHODS AND TEMPORARY WORKS G24.

	ARE RESPONSIBILITY OF THE CONTRACTOR.		
DESIGN	ASSUMPTIONS		
G25.	STRUCTURAL WORK HAS BEEN DESIGNED FOR FOLLOWING	LOADS:	
	- BUILDING DESIGN WORKING LIFE	50 years	
	- BUILDING IMPORTANCE LEVEL	2	
	- WIND LOADS TO AS/NZS1170.2:		
	~ REGION	C	
	~ AVERAGE RECURRENCE INTERVAL, R	500 years	
	~ ULTIMATE REGIONAL WIND SPEED V <sub>R</sub> (3 sec GUST)	69.4 m/s	
	~ SERVICEABILITY REGIONAL WIND SPEED V <sub>25</sub> (3 sec)	47 m/s	
	~ DIRECTIONAL MULTIPLIER	1.0	
	~ TERRAIN CATEGORY	2	
	~ TERRAIN/HEIGHT MULTIPLIER (w.w)	0.91	
	~ SHIELDING MULTIPLIER (Ma)	1.0	
	~ TOPOGRAPHIC MULTIPLIER (M)	1.0	
	- THRUST LOADS:	11.25°	= 36.7 kN
		22.5°	= 73 kN
	- PIPELINE PRESSURES:	TEST PRESSURE WORKING PRESS	= 2000 kPa SURE = 980 - 1300 kPa
	- REFER TO GEOTECHNICAL INVESTIGATION REPORT	No. 77794.02.R.0	01.REV0 DRUMSARA, PROPOSED

BOREFIELD PREPARED BY DOUGLAS PARTNERS DATED NOVEMBER 2019 NOTIFY SUPERINTENDENT CONDITIONS ENCOUNTERED DIFFER FROM THOSE DESCRIBED IN THE REPORT AND SEEK DIRECTIONS

## G26.

REALES PREVALE WORKSHOP DRAWINGS, CALCULATIONS de FOR PREFABILIATED COMPORENTS, INCLUDING STRUCTURA, STELMONK, LORINNEGHT STELENVORK, PRE-NAT CONCETE PRESTRESSING, FAROUTEDE STRUCTURA, STELENONK, LORINNEGHT COLLUMING, STA STRUCTURA, STELENONK, LORING, AND CALCULATIONS HAVE EEEN REVENED. ALLOW 14 DAYS FOR STRUCTURA DEVINE, STELENON, COLLUMING, STA STRUCTURA, STELENON, STA, STELENON, STA STRUCTURA, STELENON, STRUCTURA, STRUCTURA, STR STRUCTURA, STELENON, STRUCTURA, STRUCTURA, STRUCTURA, STR STRUCTURA, STELENON, STRUCTURA, STRUCTU SUPERINTERLENETS REVIEW. SUPERINTERLENTS REVIEW UP SHOP URAWINGS AND CALCULATIONS IS OF GENERAL COMPERMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING QUANTITIES AND DIMENSIONS SELECTING FABRICATION PROCEDURES AND CONSTRUCTION TECHNIQUES. AND PERFORMING WORK IN A SAI MANNER: CORRECTIONS OR COMMENTS MADE ON SHOP DRAWINGS AND CREFORMING WORK IN A SAFE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH REQUIREMENTS OF CONTRACT DRAWINGS AND SPECIFICATION

## FOUNDATIONS AND FOOTINGS

#### FOUNDATIONS

Doc ID: 1175010

- SITE IS ASSUMED AS CLASS P TO AS2870. CONFIRM ON SITE PRIOR TO CONSTRUCTION
- REMOVE TOP SOIL CONTAINING GRASS ROOTS OR OTHER ORGANIC MATTER, RUBBLE AND / OR DEBRIS AND OTHER UNSUITABLE MATERIAL BELOW FOUNDATIONS.
- OTHER DRIVINGLE BLOW FOUND TO BOD ROLLED FILL' IS: SAND FILL UP TO 600 mm DEEP COMPACTED IN LAYERS < 300 mm THICK, OR NON-SAND FILL UP TO 300 mm DEEP COMPACTED IN LAYERS < 150 mm THICK (CLAY FILL TO BE MOIST DURING COMPACTION).</p> F3.
- F4 BACKFILL OVER EXCAVATION WITH GRADE N7 BLINDING CONCRETE.
- LARGE LA CITE CASAWING KING AND AND AN CARACTER CANNED CONTRACT. KEEP EXCAVATIONS FREE OF WATER. PROVIDE ADECUATE DRAINAGE TO ENSURE FORMATION IS NOT AFFECTED BY MOISTURE. PREVENT FOUNDATION DRVING OUT DUE TO EXPOSURE. PLACE BLINDING, FOOTING, PLEIS AND BACKFILL AS SOON AS PRACTICABLE AFTER EXCAVATION.

- ENSURE EXCAVATIONS ARE STABLE AND PROTECT SURROLINDING PROPERTY AND SERVICES FROM ADVERSE EFFECTS OF GROUND WORKS. PROVIDE TEMPORARY WORKS AS REQUIRED. PROVIDE SHORING CERTIFIED BY SURTARY OLIVIEDE STRUCTURE, INSURER TO ALL DEEP EXCAVATIONS WHERE REQUIRED. DO NOT UNDERNINE EXISTING FOOTINGS. F6.
- FOR SITES CLASSIFIED M OR GREATER REACTIVITY: WHERE SERVICES PASS UNDER FOOTINGS BACKFILL TRENCHES WITH HAND COMPACTED CLAY OR BUINDIG CONCRETE FOR 1500 mm EACH SIDE OF FOOTING AGAINST CLEAN, DRY, UNDISTURBED NATURAL MATERIAL, BACKFILL TRENCHES WITH HAND COMPACTED CLAY
- WITHIN 1500 mm OF BUILDING. PROVIDE FLEXIBLE JOINTS IN STORMWATER AND WASTEWATER SERVICES A EXTERIOR OF BUILDING. FOLLOWING CONSTRUCTION FOUNDATION MAINTENANCE TO BE IN ACCORDANCE WITH CSIRO BUILDING TECHNOLOGY FILE 18 'FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE: A HOMEOWNER'S GUIDE'
- SI ARS AND EDOTINGS FOOTINGS HAVE BEEN DESIGNED FOR A SAFE WORKING BEARING PRESSURE OF 100 kPa IN UNDISTURBED
- NATURAL GROUND. NATURAL GROUND. CONSTRUCT FOOTINGS FOUNDED IN SPECIFIED MATERIALS (AS ABOVE, OR IN GEOTECHNICAL REPORT). REMOVE SOFTENED OR LOOSE MATERIAL AND MATERIAL THAT DOES NOT ACHIEVE THESE PRESSURES. ENSURE FORMATIONIS ICLEMA NOT LEVEL. F11.
- LOCATE FOOTINGS CENTRALLY UNDER WALLS AND COLUMNS UNO. F12
- LUCA IE POUTINGS CENTRALLY UNDER WALLS AND COLUMINS UND. REVOUTE 0.2 mm Hol MAPCAT EBSTATUT VIGION POLYTHYLENE FLUI DAMP PROOF MEMBRANE TO AS2870 ON 50 mm SAND BLINDING WHERE SHOWN ON DRAWINGS. LAP 200 mm AND SEAL DAMP PROOF MEMBRANES. TAPE AT PENETRATIONS, dtd TO ENSURE A COMPLETE VAPOUR BARRER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND AS2870. PREVENT PUNCTURING OR DAMAGE BY PACING A PLASTIC PLATE UNDER REINFORCEMENT SUPPORTS.
- TOP OF CONCRETE SLAB TO BE AT LEAST 100 mm ABOVE ADJACENT GROUND LEVELS. GROUND SURROUNDING BUILDING TO BE SLOPED SO THAT WATER WILL DRAIN AWAY FROM BUILDING TO SUITABLE DISCHARGE POINTS. WHERE ACHIEVED BY FILLING, FILLI TO BE LESS PERMEABLE THAN UNDERLYING MATERIAL. F14.

#### STEEL

\$11

- WORKMANSHIP AND MATERIALS TO COMPLY WITH AS4100, ASNZS4800, ASNZS1554 PROVIDE STEEL IN ACCORDANCE WITH AS1163 GRADE C359 FOR RECTANGULAR AND SQUARE HOLLOW SECTIONS, AS1163 GRADE C250 OR C356 FOR CIRCULAR HOLLOW SECTIONS, AS NOTED ON DRAWINGS
- ASTISS GRADE C250 OF CUSE FOR CRICULAR HOLLOW SECTIONS AS NOTED ON DRAWINGS ASIASSISS FOR FOR THE SAM OF LOOR FLATE BEEMAR AND WEIGHED COLUMNS. ASIASSISS FORT 1 GRADE SKO OF SHO FORADE SKO FULLS FOR UNIVERSAL BEAMS, UNIVERSAL COLUMNS. ASIASSISS FORT 1 GRADE SKO OF SHO FORADE SKO FULLS FOR UNIVERSAL BEAMS, UNIVERSAL COLUMNS. ASIASSIS FART 1 GRADE SKO OF SHO FORADE SKO FULLS FOR UNIVERSAL BEAMS, UNIVERSAL COLUMNS. ASIASSIS GRADE GRAD FOR HUILAS AND GRTS. OT DIREWISE TO CONFULNY UTIL ANSIASSISS FOR RADE 250 UNIV.
- MARK STEEL GRADES ON STRUCTURAL MEMBERS IN NON-CRITICAL AREAS. USE IDENTIFICATION MARKS COMPATIBLE WITH AND VISIBLE THROUGH PAINT SYSTEM.
- PROVIDE 3 mm CAP PLATES SEAL WELDED TO HOLLOW SECTIONS UNO
- CARRY OUT ERECTION OF STEELWORK IN ACCORDANCE WITH AS3828 GUIDELINES FOR THE ERECTION OF BUILDING STEELWORK.
- BUILDING STEELWORK. PROVIDE STEEL WORK. PROVIDE STEEL WARKERS MADE FROM WHOLE LENGTHS WHEREVER POSSIBLE. SEEK APPROVAL TO MAKE LENGTISUP OF SECTIONS JOINED BY COMPLETE PENETRATION FULL STRENGTH BUT WELDS GROUND FLUX WHERE REQUIRES. DWHERE PROPOSED, SHOW JOINTS ON SHOP DRAVINGS. ENSURE MEMORY SEAS DEVICE AND A DESCRIPTION OF A DEVICE AND A DEVICE AND REST DO XION FORCE ANDOR RESTANT DURING JOINES DO INTERSECT) UND. ACCURATELY PRE-FORM PARTS TO XION FORCE ANDOR RESTANT DURING JOINT DURING SHOP TO SANDRS.
- DRILL HOLES FULL SIZE OR REAM TO FULL SIZE AFTER SUB-DRILLING OR SUB-PUNCHING. SUB-DRILLED OR SUB-PUNCHED HOLES TO BE AT LEAST 3 mm UNDERSIZE "DXY" OR FLAME CUTTING OF HOLES IS NOT
- PERMITTED. BOLT HOLE SIZE TO BE: BOLT DIAMETER PLUS 2 mm FOR STEEL TO STEEL CONNECTIONS. BOLT DIAMETER PLUS 4 mm FOR STEEL TO CONCRETE CONNECTIONS BOLT DIAMETER PLUS 6 mm FOR HOLDING DOWN BOLTS.
- WELDING
- DEVELOP WELD PROCEDURES TO SUIT JOINT DETAILS AND SHOW ON SHOP DRAWINGS. LISE PRECUALIFIED Decidor Vielo Fraceburga José Preconstruitado ante a la compania de la companya d
- 92 WELDING TO BE UNDERTAKEN BY SUITABLY QUALIFIED EXPERIENCED WELDER UNDER SUPERVISION OF ELDING SUPERVISOR DUALIEIED W QUALIFIED WELDING SUPERVISOR. CARRY OUT WELDING TO AS/NZS1554: ALL INTERFACES BETWEEN STEEL SECTIONS TO BE CONNECTED WITH S10
- 5 mm CONTINUOUS FILLET WELDS ALL ROUND, BOTH SIDES UNC WELDS TO BE SHOP WELDED UNO.
- WELDS TO BE CATEGORY SO BUITWEDSTORE CALLCOMPETER PRETRATION UNO. ELECTRODES TO BE LOW CARBON WITH TENSLE STRENGTH OF 1war400 MPM, PREAPPROVED TO ASN25544, or ACSSFCATION FEAST ASN25544, or ACSSFCATION FEAST USAUS SAMAN STRENGT OF DE CALLCOMPETER AND AND AND AND AND EXTENT OF WELD INSPECTION/ESTING TO BE VISUAL SAMANUS (NG/OF WELDS
- VISUAL SCANNING: 100% OF WELDS VISUAL EXAMINATION: 100% OF BUTT WELDS IN TENSION MEMBERS AND 50% OF OTHER WELDS
- RADIOGRAPHIC OR ULTRASONIC: 10% OF BUTT WELDS IN TENSION MEMBERS AND 5% OF OTHER WELDS REPAIR FAULTY WELDS REVEALED BY WELD INSPECTION/TESTING AND REPEAT THE EXAMINATION.
- S13.
- NEPARTAULT NELUS REVENELU BY VELU INPECI UNITED INS AND REPEAT I THE EXAMINATION. WELLSS TO BE REVECTED BY INDEPENDENT NATA ACCENTED QUALIFIED WELLING INSPECTOR TO ASS214. PROVIDE WELLING INSPECTOR'S REPORT TO SUPERITEDED. WELLING SYMBOLS ARE TO ASTIOLA: "OFWI INDICATES CONTINUOUS FILLET WELL. "FSBW" INDICATES FULL STERNETH BUT WELL MHCH'S EQUIVALENT TO OFWI. "OFWI INDICATES COMMETEE FIRETATION BUT S14

#### BOI TS M16 AND LARGER BOLTS TO BE HIGH STRENGTH STRUCTURAL BOLTS, 8.8/S PROCEDURE AND M12 SIZE BOLTS

- S15. SHALL BE COMMERCIAL BOLTS & 6/S PROCEDURE LINO S16.
- SHALL BE COMMERCIAL BUILS, 4 KS PROCEDURE UNO. FOR BUITS MANUFACTURED UTISED AUSTRALIA. PROVIDE LOCAL INDEPENDENT NATA-ACCREDITED LABORATORY COMPLANCE CERTIFICATE BASED ON APPROPRIATE TESTING AND VERIFICATION. USE BOLTS WITH THREADS IN COMPLANCE WITH ASI275. BOLTS OF STRENGTH GRADE 4 5 TO BE COMMERCIAL GRADE BOLTS TO ASITITI AND 112. BOLTS OF STRENGTH GRADE 8 & TO BE HIGH STRENGTH STRUCTURAL
- CONCRETE BOLTS, NUTS AND WASHERS TO ASINZS1252. MECHANICAL PROPERTIES OF BOLTS, NUTS, SCREWS AND STUDS TO COMPLY WITH AS /NZS4291 2. WASHERS TO COMPLY WITH AS1237. TIGHTENING PROCEDURES TO COMPLY CONCRETE MIX SNUG TIGHT.

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- S SMUGTIGHT, TB BERRING MODE JOINT, BOLTS FULLY TENSIONED. TF FRICTION MODE JOINT, BOLTS FULL TENSIONED. (CONTACT SURFACES OF FRICTION CONNECTIONS TO BE EUXCORTED MON FREG CP MULL SCALE.) BOLT TYPE AND TIGHTENING PROCEDURE ARE DESIGNATED: NUMBER. SIZE STRENGTH GRADE/TIGHTENING S18
- PROCEDURES. eg. 4M24 8 8/TB = 4 OFF 24 DIAMETER METRIC HIGH STRENGTH STRUCTURAL BOLTS FULLY TENSIONED IN
- USE BOLT LENGTHS SO THAT PROJECTION BEYOND NUT IS AT LEAST TWO THREADS, AND NOT MORE THAN 10
- S20. SLOTTED HOLES TO BE 2.5 x BOLT DIAMETER LONG UNO. BOLTS TO BE SET CENTRAL IN SLOT UNO. USE 8 mm PLATE WASHERS UNDER BOLT HEAD AND NUT TO COMPLETELY COVER HOLE
- CONNECTIONS PROVIDE RADIUSED CORNERS ON EXPOSED CLEATS TO REDUCE RISK OF IMPALEMENT AND LACERATIONS.
- S22. CROP INTERNAL CORNERS OF CLEATS AND STIFFENERS, at TO FACILITATE DRAINAGE. PROVIDE DRAINAGE HOLES TO PREVENT WATER PONDING ON STRUCTURAL ELEMENTS DURING CONSTRUCTION. SHOW PROPOSED HOLES ON SHOP DRAWINGS.

BASEPLATES AND HOLDING DOWN BOLTS

\$31

\$35

- LATES AND HOLDING DOWN BOLTS HOLDING DOWN BOLTS TO BE GRAPE 46 UIND. SUPPLY HOLDING DOWN BOLTS WITH TWO CLASS 5 HEXAGONAL HEAD NUTS AND EXTRA LARGE HARDENED OR 4 mm PLATE WASHER. HOT DIP GALWARZE HOLDING DOWN BOLTS. NUTS AND WASHERS TO ASTLY. THE HOLDING DOWN BOLT GROUPS ROUGING Y GOETHER PROR TO INSTALLATION (ING TACK HEQU WITH 10 mm DAMETER REIN-FORCING BAR TO FORM A RIGD CARE) TO ESNIBE CORRECT BOLT COLTIONS, AND SET OUT USING A 3 mm AD STELE LIFEUR-LE SUPPLIED BY STELE.WORK ABRICATOR. PROVIDE 4 N12 LIGATURES TO FIX HOLDING DOWN BOLT CAGE SECURELY TO SLABIFOOTING REINFORCEMENT
- \$24 GROUT BASE PLATES HOLDING DOWN BOLTS, PERATES are RECORE LOADING COLLIMNS OR EPECTING WALLS USE APPROVED HIGH-STRENGTH (40MPa AT 7 DAYS) NON-SHRINK PRE-MIXED RAMMED GROUT. GROUT THICKNESS 15 mm MINIMUM, 40 mm MAXIMUM UNO. CHAMFER GROUT EDGES AT 45 DEGREES UNO.

C6. QUALITY OF CONCRETE ELEMENTS TO BE AS FOLLOWS:

BLINDING SLAB ON GROUND THRUST BLOCKS

SUPPLEMENTARY CEMENTITIOUS MATERIALS INCLUDE SILICA FUME, FLY ASH, AND GROUND GRANULATED BLAST FURNACE SLAG (GGBFS OR SLAG).

SLUMP TO BE AS REQUIRED FOR PLACEMENT (eg PUMPING, etc), COMPACTION AND FINISHING. USE SUPERPLASTICISERS AND HIGH RANGE WATER REDUCERS TO AS1478 TO ACHIEVE ADEQUATE WORKABILITY.

SUPERFUSAIICESES AND INTER MANDE WALEN EQUICES IO XATAFA IO ACHEVE AUEQUALE BUMARABULT. SAMATURES TO COMPLY WITH ASTAFA BAMATURES MALES MATO REDUCE STREATENT OF CONCRETE BELOW SPECIFED VALUE. USE ADMATURES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS CONCRETE ADTURES SAILLA IOT ENANCE CORROSION OF REIPORCEMENT, TO RE DETERMENTAL TO CONCRETE OR STELE DURING SPECTED UFE OF STRUCTURE. DO NOT USE CHEMICAL ADMATURES OR OTHER MATERIALS WITHOUT SUPERFUSIONERS WITH SMARPOVAL.

DO NOT USE CALCIUM CHLORIDE. MAXIMUM ACID SOLUBLE CHLORIDE ION CONTENT OF CONCRETE TO BE LESS THAN 0.15% BY MASS OF CEMENTITIOUS MATERIAL. DO NOT USE STRONGLY IONIZED SALTS.

TEST SLUMP OF EACH BATCH OF CONCRETE DELIVERED BEFORE PLACING CONCRETE FROM THAT DELIVERY. SLUMP MEASURED TO BE NO GREATER THAN TARGET SLUMP WITHIN TOLERANCES GIVEN IN AS1379 CLAUSE

REGISTER PROJECT FOR DISSEMINATION OF CONCRETE PRODUCTION ASSESSMENT INFORMATION. MANUFACTURER TO CARRY OUT PRODUCTION ASSESSMENT OF CONCRETE FOR COMPLIANCE WITH REQUIREMENTS OF ASI370

RESPONSIBILITY FOR DESIGN. CERTIFICATION. CONSTRUCTION AND PERFORMANCE OF FORMWORK AND

DO NOT STIPP FORMWORK PRIOR TO 38 HOURS AFTER PLACEMENT. DO NOT STIPP FORMWORK WITH, CONCENTEE IS HARDENED SUFFICIENTLY TO WITHSTAND MOVEMENT AND FORM REDUKL WITHOUT DAMAGE. FOR REDUKL WITHOUT DAMAGE. OF RECTLEFT AN ONCERTE MAINT TO HUNDLE WITH CONCENT FE SUB-THE HARTS OF RECTLEFT AN ONCERTE MAINT TO HUNDLE WITH CONCENT FE SUB-THE HARTS MORE NON-SHRINK CEMENTIOUS REPARK NORTAR MATCHING CONCERET SUB-THE INLOSE SUB-THE MERE NON-SHRINK CEMENTIOUS REPARK NORTAR MATCHING CONCERET SUB-THE HARTS OF DURALITY MAD AEDIQUITE TO HUNDLE WITH CONCENT AND DURALITY MAD AEDIQUITE BORN.

REMOVE FREE WATER, DUST AND DEBRIS, STAINS etc FROM FORMS, EXCAVATIONS etc BEFORE PLACING CONCRETE. IN HOT CONDITIONS DAMPEN FORMAVORK AND/OR SUB-GRADE BEFORE PLACING CONCRETE.

JORCHETE, IN TOT CONTINUES DIAMERY FORMANDAR AND/OR SUB-GRADE BEFORE FLACING CONCHETE. L'APSED TIME BETWEEN WETTING OF MIX AND DISCHARGE OF CONCRETE AT SITE MUST BE AS SHORT AS POSSIBLE, AND COMPLY WITH THE FOLLOWING.

MAXIMUM ELAPSED TIME

(HOURS)

2.00

1.50

USE PLACEMENT METHODS THAT WILL MININGE FLASTIC SETTLEMENT AND SHRINKAGE CRACKING. LIMIT VERTICAL REFE FALL BY USE OF CHUTES, WELL KEEP CHUTES VERTICAL, FULL AND MMERSED IN CONCRETE PLACE CONCRETE IN LAYERS AND BLEND SUCCEEDING LAYERS BY COMPACTON. MAINTAIN CONCRETE EDGE IN A PLASTIC STATE, PROFERY COMPACT CONCRETE USING MECHANICAL VIBRATORS (AND HAND METHODS

REQUIRED) TO REMOVE AIR BUBBLES AND GIVE MAXIMUM COMPACTION WITHOUT SEGREGATION OF

CONCRETE. TAKE CARE TO AVOID CONTACT BETWEEN VIBRATORS AND PARTIALLY HARDENED CONCRETE, FORMWORK OR REINFORCEMENT. DO NOT USE VIBRATORS TO MOVE CONCRETE ALONG FORMS.

OBTAIN SUPERINTENDENT'S WRITTEN APPROVAL OF PLACEMENT METHODS FOR CONCRETE ELEMENTS

IN COLD WEATHER MAINTAIN TEMPERATURE OF FRESHLY MIXED CONCRETE WITHIN LIMITS SHOWN BELOW. 'OUTDOOR' AIR TEMPERATURE IS AR TEMPERATURE AT TIME OF MIXING, OR PREDICTED OR LIKELY AR TEMPERATURE DURING NEXT 4H OURS, BEFORE AND WHILE PLACING CONCRETE MAINTAIN TEMPERATURE

DF FORMVORK AND REINFORCEMENT AT > 5°C. DO NOT USE CALCIUM CHLORIDE, SALTS, CHEMICALS OR DTHER MATERIAL IN MIX TO LOWER THE FREEZING POINT OF CONCRETE. DO NOT ALLOW FROZEN MATERIALS

KEEP FORMS, MATERIALS, EQUIPMENT IN CONTACT WITH CONCRETE FREE OF FROST AND ICE. HEAT CONCRETE MATERIALS (OTHER THAN CEMENT) TO MINIMUM TEMPERATURE NECESSARY TO ENGURE TEMPERATURE OF PLACED CONCRETE IS WITHIN LIMITS SPECIFIED. MAXIMUM WATER TEMPERATURE: 00-

32°C

DO NOT ADD WATER TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT. MIX CONCRETE TO ENSURE UNIFORM DISTRIBUTION OF CONSTITUENTS.

DO NOT STRIP FORMWORK PRIOR TO 36 HOURS AFTER PLACEMENT.

STRUCTURAL ELEMENT

EXPOSURE CLASSIFICATION

STRENGTH GRADE (MPa)

MAX. AGGREGATE SIZE (mm):

C7.

C8

C9

C10

C11 C12.

C13

C14

C15.

C18.

C19.

C20.

C21

C22.

C23

C24

C25

CONCRETE TESTING

VORK

PLACING OF CONCRETE

FALSEWORK LIES WITH CONTRACTOR

CONSTRUCTION TOLERANCES TO BE TO AS3610.

CONCRETE TEMPERATURE AT

TIME OF DISCHARGE ('C)

24 - 27

27 - 30

30 - 32

REATER THAN 1500 mm HEIGHT

WHEN PLACED IN MIXER

> 5°C

< 5°C

TO ENTER MIXER. DO NOT LISE HIGH ALLIMINA CEMENT

OUTDOOR AIR TEMPERATURE OF CONCRETE

10°C

18°C

MINIMUM MAXIMUM

10 - 24

- DURABILITY & PROTECTIVE COATINGS
- BLIT'S PROTECTIVE COATINGS USE BOLTS, SCIENCES, NUTS AND WASHERS HOT DIP CALVANIZED BY MANUFACTURER TO AS1214. TAP GALVANEED NUTS AL HIM OVERSEE TO SUIT GALVANEED THERADS TO AS1214 AND OL FOR PROTECTION INSTALL MANERIES MORE BOLT HISO ONNY THIORISENE HIST ROTATEL: DUE ANGENED OF PLUT INSTALL MANERIES HORE BOLT HISO ONNY THIORISENE HIST ROTATEL: DUE ANGENED OF PLUT ANGENED AND THE AND AND THE AND AND THE AND AND THE AND ALL TO AS100. LEE THARED WASHERS AS REQUIRED WADER NON-HOTATING PART. THER COMPLETION OF ARBIGLION DREPARATION FOR SUBACE TREATMENT TO BE RECENDE OF FOLLOW WEILDS, SHAPE EDGES & IM RADULYS & SUBFACE TO BE FREE OF WEILDING SAVITER, SLAG, UNDERFUNS, MATTER, GROVES (RADULS OF COULES TO BE LEVERS RAULOVARCE ALMANIATIONS, RAULE AND EXTERMINED MATTER, GROVES (RADULS OF COULES TO BE LEVERS RAULOVARCE). AMUNICIPAN CALLEDINA EXTERMINED MATTER, GROVES (RADULS OF COULES TO BE LEVERS RAULOVARCE). AMUNICIPAN, RAULE MARKE, BURGS, MATTER, GROVES (RADULS OF COULES TO BE LEVERS RAULOVARCE). AMUNICIPAN, RAULE MARKE, BURGS, MATTER, GROVES (RADULS OF COULES TO BE THE AND AND MINISTRATIONE, RAUL MARKE, BURGS). S26.
- 8501-3 PREPARATION GRADE P3 80013 PHEPARATION GRADE 23. SUBFACE PREPARATION REMOVE OIL, GREASE AND OTHER CONTAMINANTS TO ASI627.1. ABRASIVE BLAST CLEAN TO ASI627.4 CLASS SA 27.WITH SUBFACE PROFILE AT TO 70 MURCINS OR AS SPECIFIED BY COATINGS MANUFACTURER FOR THE SERVICE CONDITIONS. ASSESS ABRASIVE BLAST CLEANED SUFFACE TO ASI827.9 MULTADURGENER FOR THE SERVICE CONDUCTIONS. ASSESS ABRASIVE BLAST CLEANED SUBFACE TO ASI827.9 \$27 OBTAIN APPROVAL FROM SUPERVISOR TO USE POWER TOOL CLEANING TO AS1627.2 CLASS ST 3/PST 3 AS DEFINED IN ISO 8501.1 FOR STEEL CLEANED TO A METALLIC FINISH WITH MINIMUM 25 MICRON SURFACE PROFILE. REMOVE DUST BY BRUSHING OR VACUUM CLEANING.
- S28 APPLY PROTECTIVE COATINGS AS SOON AS PRACTICABLE AFTER PREPARATION. WITHIN FOUR HOURS AND BEFORE FLASH RUST OR RUST BLOOM APPEARS. APPLICATION OF PROTECTIVE COATINGS TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATION, SURFACE TREATMENT OF STEEL WORK FOR \$29. HERIC CORROSION PROTECTION TO BE INORGANIC ZINC SILICATE. APPLY PROTECTIVE COATINGS AS
- A INCOMPACT DEVICES TO A RECORD IN TO DE INDOMINACIÓN DE LA SUBJECT DE LA DEVICE \$30 COATING REPAIRS: REINSTATE COATING TO DAMAGED AREAS TO PROTECTIVE COATINGS SPECIFICATION CONTING REPRING, REIRO AT E CONTING TO DIMINISED AREAS TO FORMULATE CONTING CONTINUES. FELD WELD REPRING: DO NOT WELD THROUGH EXISTING GAUVAINING OR CATINGS. REIROVE WELD SPLATTER, RESIDUAL FLUX etc BY CHIPPING, GRINDING OR ARRASIVE BLAST CLEANING, GRIND FLUSH ROUGH WELD BEADS, PREPARE SURFACE FOR PAINTING AS PER CONTING SPECIFICATION.
  - BURNT PAINT AND SUFFICIENT SOUND COATING SO PAINT FOGE IS FEATHERED AND SMOOTH. ST ALL WELDS, EDGES AND ROUGH SURFACES USING A BRUSH. REINSTATE COATING AS PER PROTECTIVE COATINGS SPECIFICATION. PROTECTIVE COATINGS ARE TO BE SHOP APPLIED AND CURED IN WORKSHOP IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS APPROVED OTHERWISE IN WRITING BY SUPERINTENDEN PROTECTIVE COATINGS ARE TO BE SMOOTH, UNIFORM AND WITHOUT RUNS, BEADS, PINHOLES, SURFACE
- CRAZING OR OTHER IMPERFECTIONS PROTECT CONTRACTINGS FROM DAMAGE AND DETERIORATION DURING HANDLING, TRANSPORT, STORAGE AND ERECTION. REPAIR DAMAGE TO PROTECTIVE COATINGS TO REINSTATE INTEGRITY OF NOMINATED COATING IN ACCORDANCE WITH MANUARCTURERS' RECOMMENDATIONS AND SPECIFICATION. DEGES OF PATING \$12
- REPAIRS TO BE FEATHERED. DELIVERABLES
- SUBMIT NAMES AND CONTACT DETAILS OF PROPOSED FABRICATION AND INSTALLATION SUBCONTRACTOR SUBUT NAMES AND COMING TERLAS OF PROPOSED PAREICATION AND INSTALLATION SUBCONTRACTORS SUBUT SHOP PRAVINGS AND DESIGN ACCULATIONS, REFERE CORFENAL-RELIFERENCESS. INSTALLATION SUBCONTRACTORS DEVANINGS AND DESIGN ACCULATIONS TO SHOW ARRANGERERT OF REMERES, MARING PAUL MEMBER PRAVIDES, REFERENCESS, AND DESIGN ACCULATIONS, REFERENCESS, AND DESIGN ACCULATIONS TO SHOW ARRANGERERT, OF REMERES, MARING PAUL MEMBER PRAVIDELS, REFERENCESS, DESIGN ACCULATIONS, DESIGN STRESSES, STRENOTH OF MATERIALS, SEE OF EACH MEMBER, MEMBER SUBJ. SHOW TO TEXEL, STREMERS, NOGRINGS &L. LIFTING POINTS, METHOD OF FINING AND BRACING, DESIGN STRESSES, STRENOTH OF ALTERUALS, SEE OF EACH MEMBER ST. DELANCE, DESIGN DEFICIENT, METHOD OF PARIFICALS, SEE OF EACH MEMBER ST. DELANCE, DELANCERS, DELANCESS, SUBJ. SHOW BC/TING, CATEGORIES, WELD OF CRUID OF FINING AND BRACING, DESIGN STRESSES, STRENOTH OF ALTERUALS, SEE OF SECH MEMBER ST. BLOCK DESIGN DEFICIENT, MEMBERS DESIGN, DELANCESS, S34.
- PROVIDE DOCUMENTARY EVIDENCE (INCLUDING TEST RESULTS) OF COMPLIANCE WITH RELEVANT PROVIDE DOCUMENTARY EVERIDATE INCLUDING TERF RESULTS) OF DOMPLANCE WITH RESUMAT JUSTIALIUM STANDARDUS SEILED TIMMUN CITERRIFONA LISTENDORA MIL CALO TATO FASTENESS STANDARDS AND E WRITTEN IN BAGISH A PHANIMERIC CHARACTERS EVERNER'S TO AND AN ADDRESSES OF MANAFECTRES, SUPPLANT AND TSTIAN JUNIFACTORS TO EVERACE TO INCLUE HAMES AND ADDRESSES OF MANAFECTRES, SUPPLANT AND TSTIAN JUNIFACTORS TO EVERACE TO INCLUE HAMES AND ADDRESSES OF MANAFECTRES, SUPPLANT AND TSTIAN JUNIFACTORS TO EVERACE TO RESULT FROM THE PRODUCT SEGMANTINA MAR DELEVANT DAMESIONE PRODUCT STEEL MANNE PROSES LISTENDATIONES PROCESSIONED AND REPORTS IN SECONDARIA UNIQUE DEUTERE TO WHON CERTIFICATE APPLIES, HART NUMBER FROM CASTING, TO ENTRE FLANT MANNE PROCESSIONED AND REPORTS IN SECONDARIA INCOLUNIED INCOLUDING LICEPTED HASH STANDARD CONTROLLING, WIGHTED SOUTHAND THE CONTROL OF MIDDING MICHANICAL POPERTY COMPLEY WITH ASNESS STANDARD, CHEMICAL AND STREED AND TYPE OF ANALYSIS UNDERTAKEN, CUSTOMER PURCHASE ORDER TO MATCH BATCH NUMBER; ANY OTHER SYSTEM REFERENCE NUMBERS AND SIGNATURE OF AUTHENTICITY.
- MANSHIP AND MATERIALS TO COMPLY WITH 453600 452870 453610 451370 451478 453582 AND AS3972 FOR LIQUID RETAINING STRUCTURES ALSO COMPLY WITH AS373
- ASSIZE FOR CLUDD RETAINING STRUCTURES ALSO COMPLET MITH ASSIZS. WET CONCRETE TO BE UNIFORM, HOMOGENEOUS, COHESIVE AND ABLE TO WORK READILY INTO CORNERS AND AROUND REINFORCEMENT COMPLETELY FILLING FORMAVORK WITHOUT SEGREGATION, EXCESS FREE WATER ON SUFFACE LOSS OF MATERIAL OR CONTAMINATION.
- WATER ON SURFACE, LOSS OF MATERIAL OR CONTAMINATION. CONCRETE TO HAVE GOOD DIMENSIONAL STABILITY AND ABLE TO RESIST PLASTIC SETTLEMENT CRACKING THERMAL CRACKING AND SHRINKAGE CRACKING.
- In Example oraciants and strataged concentrate. Finished concentre to be a Durabele, Dense Homogeneous Mass completely filling formwork, EMBEDDING RENEORCEMENT AND TENDONS, AND FREE OF STOME POCKETS, OF UNFORM COLOUR AND TEXTURE, WITH LOW PERMEABILITY AND ADEQUATE BUT NOT EXCESSIVE STREMENTH FOR GRADE.

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- REVIEW LOCATION OF EMBEDDED ITEMS TO MINIMIZE POSSIBLE ZONES OF POOR COMPACTION THAT MAY COMPROMISE STRUCTURAL INTEGRITY.
- C5 EXTERNALLY EXPOSED CONCRETE TO BE CLASSIFICATION B1 LINO

ISSUE FOR TENDER

Image: constraint of the state of the st
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C4.

C26.	IN HOT WEATHER PREVENT PREMATURE STIF EVAPORATION LOSSES. MIX. TRANSPORT.	FENING OF FRESH COM PLACE AND COMPAC	CRETE: REDUCI	EWATER ABSORPTION AND	R7.	DESIGNATION O eg. 17 N20 - 350
	EVAPORATION LOSSES. MIX, TRANSPORT, DURING PLACEMENT TEMPERATURE OF CON	CRETE MUST NOT EXC	EED TEMPERAT	URES BELOW:		<ul> <li>17: DENOTE</li> <li>N: DENOTE</li> </ul>
	CONCR	ETE ELEMENT	TEMPERAT	TURE		<ul> <li>20: DENOTE</li> <li>350: DENOTE</li> </ul>
	UNREINFORCED CONCRETE IN SECTIONS DIMENSION,		27°C		R8.	- EF: DENOTE FOLLOWING ABE
	CONCRETE f <sub>C</sub> ≥ 40 MPa IN SECTIONS ≥ 50 CONCRETE IN FOOTINGS, BEAMS, COLUM		27°C 32°C			EW: EACH WAY EF: EACH FACE NF: NEAR FACE
	SLABS f <sub>c</sub> ≤ 32 MPa				R9.	PROVIDE STAND
	ELSEWHERE DO NOT MIX CONCRETE WHEN SURROU	INDING OUTDOOR SH	32°C	TURE ≥ 38°C. MAINTAIN	R10.	HOOK OF AT LEA PROVIDE ONE
	TEMPERATURE OF FORMWORK AND REINFO SPECIFIED TEMPERATURE OF PLACED CONC	RCEMENT AT ≤ 32°C	BEFORE AND DU	JRING PLACING. MAINTAIN		CONSTRUCTION
	<ul> <li>SPECIFIED TEMPERATURE OF PLACED CONC</li> <li>COOL CONCRETE USING LIQUID NITROGEI</li> </ul>	RETE BY: NINJECTION BEFORE F	LACING. OR		R11.	PROVIDE N12 D ENTRANT CORN
	<ul> <li>COVER CONTAINER IN WHICH CONCRETE</li> <li>SPRAY COARSE AGGREGATE USING COLD</li> <li>USE CHILLED MIXING WATER.</li> </ul>	IS TRANSPORTED TO F	ORMS, OR		R12.	REINFORCEMEN
C27.	PROTECT ERESH CONCRETE FROM PREMI	TURE DRYING - PART	TICULARLY IN H	OT, WINDY OR DRY (LOW	R13.	CAP STARTER B
	HUMIDITY) CONDITIONS, EXCESSIVELY HOT MAINTAIN CONCRETE AT A REASONABLY C CURING PERIOD.	OR COLD TEMPERATI	JRES, RAIN, etc. JRE WITH MININ	. PROVIDE WIND BREAKS. //UM MOISTURE LOSS FOR	R14. R15.	ENSURE ALL LAI UNDERFOOT. SECURE REINFO
C28.	COMMENCE CURING OF CONCRETE TO AS3 STRIPPING, AND WITHIN ONE HOUR. ENSURE OF CURING INCLUDE: - RETENTION OF FORMWORK	600 AS SOON AS POS EXPOSED SURFACES	SIBLE AFTER PL ARE NOT STAINE	ACING AND FINISHING OR ED. ACCEPTABLE METHODS	R16.	COVER TO REIN 800 mm MAXIMU REINFORCEMEN SECURELY TIE
	<ul> <li>PONDING OR CONTINUOUS SPRINKLING W</li> <li>AN IMPERMEABLE MEMBRANE (USE WHI</li> </ul>	ITH WATER (MOIST CU TE OR LIGHT COLOUR	ring) IED plastic in	HOT CONDITIONS). SEAL	R16.	COVER ZONE. FOR BEAMS, TIE
	AROUND EDGES - AN ABSORPTIVE COVER KEPT CONTINUOL	ISLY WET AND COVERE	D BY IMPERMEA	ABLE MEMBRANE	R18.	STIRRUPS AT 10 FOR EXTERNAL
	<ul> <li>STEAM CURING</li> <li>AN APPROVED CURING COMPOUND. PROV</li> </ul>	IDE:			R18.	SUPPORT REIN
	<ul> <li>EFFICIENCY INDEX</li> </ul>					WITHSTAND CO STRUCTURE. F
	CERTIFIED TEST RESULTS FOR     EVIDENCE THAT AN ACCEPTABL     EVIDENCE OF COMPATIBILITY V	WATER RETENTION TO LE FINAL SURFACE COL	OUR WILL BE O	DIX B BTAINED		PROPRIETARY H
	<ul> <li>EVIDENCE OF COMPATIBILITY V METHODS OF OBTAINING REQU</li> </ul>	ITH CONCRETE AND A	PPLIED FINISHE	S (IF ANY)	R20.	DO NOT PLACE
	<ul> <li>UNIFORM CONTINUOUS FLEXIB</li> </ul>	BLE COATING WITHOU	T VISIBLE BREA	AKS OR PINHOLES, WHICH	R21.	LAPPED SPLICE AND SPACED AT
C29.	REMAINS UNBROKEN FOR AT LEAST THE DO NOT USE WAX-BASED OR CHLORINATED					COVER
C30.	SUBSTRATES TO APPLIED FINISHES, CONCRI CURE CONTINUOUSLY UNTIL NUMBER OF DA	TE TOPPINGS AND CE	MENT BASED RE	NDER		≥ 25
C30.	<ul> <li>3 DAYS FOR EXPOSURES CLASSIFICATION</li> </ul>	A1 AND A2	TEMPERATURE	IS ABOVE 10°C TOTALS:		≥ 30 ≥ 40
C31.	<ul> <li>7 DAYS FOR EXPOSURE CLASSIFICATION 6</li> </ul>	31, B2 AND C.				≥ 40 ≥ 50
C31. C32.	PREVENT RAPID DRYING OUT AT END OF CUI FINISH CONCRETE SURFACES TO AS3610 AN	D AS SHOWN BELOW:				DO NOT INTERP
	FORMED SURFACES:     EXPOSED SURFACES 3C OR					LAPPED SPLICE EPOXY COATED
	HIDDEN SURFACES 5     FINISHES AS LAID:	R22.	LONGER SPLICE			
	<ul> <li>EXPOSED SURFACES STEEL TR</li> </ul>	OWEL UNO			NZZ.	CAST BELOW TH
C33.	<ul> <li>HIDDEN SURFACES WOOD FL</li> <li>PROVIDE EXPOSED EDGES AND RE-ENTRANT</li> </ul>		SREES x 25 mm (	HAMFERS OR FILLETS LINO		COVER
C34.	DO NOT MAKE HOLES, PENETRATIONS, RECE		≥ 25 ≥ 30			
	DO NOT MAKE HOLES, PENETRATIONS, RECE ON STRUCTURAL DRAWINGS) WITHOUT APPP WITHIN COVER CONCRETE. LOCATE CONDU		≥ 30			
	AND BETWEEN REINFORCEMENT LAYERS, A REINFORCEMENT AT PENETRATIONS WITHOUT	ND SPACED AT 3 x DIA	METER CENTRE	ES MINIMUM. DO NOT CUT		≥ 50
JOINTS	REINFORGEMENT AT PENETRATIONS WITHOUT	JI AFFROVAL				NOT APPLICABLE
C35.	FORM CONSTRUCTION JOINTS AND USE ON CONSTRUCTION JOINTS IN SLABS TO BE VER	Y WHERE SHOWN OR	WHERE APPRO	VED BY SUPERINTENDENT.		DO NOT INTERP LAPPED SPLICE
C36.	IF CONSTRUCTION JOINTS PROPOSED OTH			ROPOSED LOCATIONS FOR		EPOXY COATED
	SUPERINTENDENT'S APPROVAL PRIOR TO CO	DNSTRUCTION.			R23.	LAY MESH REIN
C37.	DO NOT INSTALL SEALANTS IF EXPECTED M RECESSES ARE CLEAN AND DRY PRIOR TO IN	STALLING FILLERS OR	SEALANTS, AND	PREPARE IN ACCORDANCE	R24.	OF ONE SHEET
DEWED	WITH MANUFACTURER'S RECOMMENDATION RCEMENT COVER	S. TOLERANCE ON SEA	ALANT WIDTHS +	-5, -0 mm.		MESH TYPE
C38.	COVER IS CLEAR DISTANCE BETWEEN AN	REINFORCEMENT (IN	ICLUDING LIGAT	TURES, TIE WIRE etc) AND		RECTANGULAR
C39.	OUTSIDE SURFACE OF STRUCTURAL CONCR COVER MUST NOT BE LESS THAN SPECIFIC	ETE.				SQUARE MESH SL81
C38.	SHOWN BELOW, EXCEPT WHERE SPECIFIED	OTHERWISE:	N CLEAR COVE	R TO REINFORGEMENT AS		TRENCH MESH
	LOCATION		OVER (mm)			USE LAP LENGTH
	FOOTINGS, UNDERSIDE SLABS ON GROUND	)	50		R25	POINT. SPLICE TRENCH
	TOP OF SLAB - INTERIOR		40			MESH FULL WID OUTSIDE BARS I DO NOT WELL
DELIVE C40	VABLES SUBMIT NAMES AND CONTACT DETAILS OF P			100	R26.	DO NOT WELL
C41.	PROVIDE RECORD OF SLUMP TESTING TO SL	PERINTENDENT. REFE	R CONCRETE T	ESTING NOTES.		SUPERINTENDE PURPOSES) TO
C42.	FORWARD CONCRETE PRODUCTION ASSE CLAUSE 6.4 WHEN PRODUCTION ASSESSMEN	SSMENT INFORMATIO IT IS UNDERTAKEN. RE	N TO SUPERIN' FER CONCRETE	TENDENT AS PER AS1379 TESTING NOTES.		SECTION THAT H EXTENT OF WEL VISUAL SCAN VISUAL EXAM
REIN	FORCEMENT					<ul> <li>RADIOGRAPH</li> </ul>
R1.	SYMBOLS ON DRAWINGS FOR GRADE AND TY - R: STRUCTURAL GRADE 250 PLAIN ROL	PE OF REINFORCEME	NT ARE AS FOLL	OWS:	R27.	DO NOT BEND O AS3600. BARS T
	<ul> <li>N: HOT ROLLED GRADE 500 DEFORMED</li> </ul>	(RIBBED) BAR DUCTIL	TY CLASS N TO	AS/NZS4671	R28.	NOT COOL HEAT
	- SL: HARD DRAWN WIRE GRADE 500 SQU	ZS4671	R20.	DO NOT CUT, E APPROVAL.		
	RL: HARD DRAWN WIRE GRADE 500 REC     TM: HARD DRAWN STEEL GRADE 500 TRE     W: GRADE 500 STEEL REINFORCING WIR	TANGULAR MESH DUC' ENCH MESH DUCTILITY	TILITY CLASS L T CLASS L TO ASI	O AS/NZS4671 NZS4671	R29.	ENSURE HOT BI INDICATOR PAIR MANUFACTURES
R2.	PROVIDE ACRS (AUSTRALIAN CERTIFICATIO COMPLIANCE WITH AS/NZS4671 FOR ALL RE	N AUTHORITY FOR REI	NFORCING STEE	EL LTD) CERTIFICATION OF ION OF COMPLIANCE WITH	R30.	PERCUSSION RO BE ROUGHENED RECOMMENDAT
R3.	AS1311 FOR ALL PRESTRESSING TENDONS. PROVIDE DOCUMENTATION TO SHOW THAT R	EINFORCEMENT SLIPP	LIER AND MILL O	OMPLIES WITH AS/N754671	R31.	ENSURE HOLES
R4.	REINFORCEMENT MUST HAVE UNIQUE MARK	S TO IDENTIFY SUPPLIE	ER.			INSTALLING AND HOLE WITH ADH
R5. R6.	USE MESH SUPPLIED IN FLAT SHEETS UNLES	S APPROVED OTHERW	ISE.	MUD OD OTHER MATERIA		FIRST TRIGGER
rv0.	REINFORCEMENT TO BE CLEAN, FREE OF LC THAT MIGHT REDUCE BOND BETWEEN REINF	ORCEMENT AND CONC	RETE.	MUD OR UTHER MATERIAL		DEGREASED, AM FULLY INTO H
						RECOMMENDAT

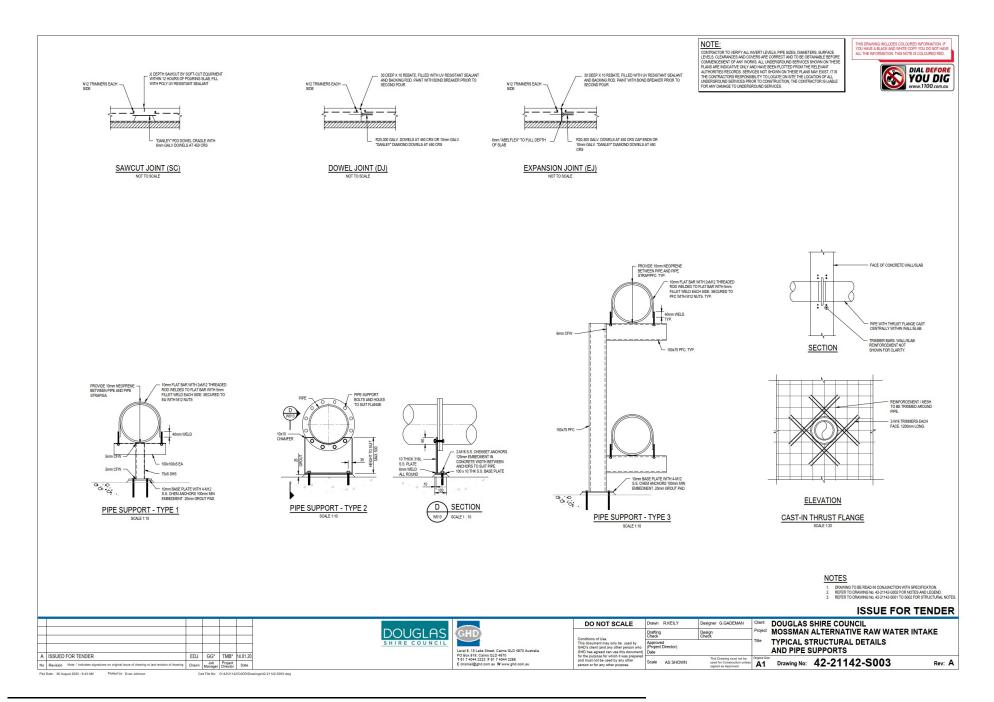
DESIGNATION (									
eg. 17 N20 - 35		RCEMENT B	ARS IS AS S	HOWN:					
<ul> <li>17: DENOT</li> </ul>	ES No OF E	IARS AND T	PE IN GRO	UP					
<ul> <li>20: DENOT</li> </ul>	ES NOMINA	ADE AND D	IETER IN m	m					
- EF: DENOT	ES SPACIN ES LOCATI	ON							
FOLLOWING AB	BREVIATIO	NS APPLY T	0 LOCATIO	N OF REINF	ORCEMENT BOTTOM (L	AID FIRST)			
EF: EACH FACE NF: NEAR FACE	1	B: BOTTOM	ī	T: TOP TOP	BOTTOM (L CAID LAST)	ACED			
PROVIDE STAN	DARD COG	S AND HOO	S TO AS36	00. TERMIN	ATE ENDS C	F COLUMN	AND BEAM	LIGATURES IN A	
HOOK OF AT LE								PORT. GES, INCLUDING	
CONSTRUCTION	JOINTS U	NO.							
ENTRANT CORP	IERS, OPEN	INGS, SER	/ICE PENET	<b>RATIONS</b> e	tc UNO.			CEMENT AT RE-	
REINFORCEME	NT IS REPR	ESENTED D	AGRAMMA	TICALLY AN ACING IS N	ID IS NOT NE	CESSARILY	IN TRUE P	ROJECTION. SET	
CAP STARTER I	BARS AND O	THER REIN	FORCEMEN	IT TO REDU	JCE RISK OF	IMPALEME			
ENSURE ALL LA UNDERFOOT.	ID REINFOR	CING BARS	ARE RESTI	RAINED BEF	ORE STOPP	ING WORK	TO PREVEN	T BARS ROLLING	
SECURE REINF	ORCEMENT	IN POSITIC	N AGAINST	DISPLACE	MENT AND N	AINTAIN SP	ECIFIED CI	EAR CONCRETE JRES OR TIES AT	
800 mm MAXIMI REINFORCEMEN	JM CENTRE	S EACH WA	Y UNO. PR	OVIDE ADE	QUATE SUP	PORT TO P	REVENT DI	SPLACEMENT OF	
SECURELY TIE							TO CONCE	RETE, CLEAR OF	
COVER ZONE.	E STIRRUPS	TO BARS I	N FACH CC	ENER OF F	ACH STIRRI	IP FIX OTH	FRIONGIT	UDINAL BARS TO	
STIRRUPS AT 1	MIXAM 000	JM CENTRE	S.						
SUPPORT REIN	FORCEMEN	IT ON PRO	PRIETARY	CONCRET	E. METAL O	R PLASTIC	SUPPORTS	ADEQUATE TO	
WITHSTAND CO	ONSTRUCT	ION AND T	RAFFIC LC	ADS AND	MAINTAIN E	URABILITY	OF FINIS	HED CONCRETE TER, ONLY USE	
PROPRIETARY	HIGH STRE	NGTH FIBRE	REINFORG	CED CEMEN	IT SPACER B	LOCKS OR	SUPPORTS	iner oner ode	
DO NOT PLACE LAPPED SPLICE	LENGTHS	FOR HORIZ	ONTAL BAR	S WITH MO	RE THAN 300	mm CONCE		BELOW THE BAR	
AND SPACED A	T ≥ 150 mm	CENTRES 1	O COMPLY	WITH THE	FOLLOWING	UNO:		1	
COVER ≥ 25	f*c ≥20	N12 770	N16 1150	N20 1570	N24	N28	N32		
≥ 30	≥25	630	980	1350	1740	-			
≥ 40	≥32	510	770	1100	1440	1810	2220		
≥ 50 DO NOT INTERF	≥ 40 OLATE INT	460 ERMEDIATE	630 VALUES O	890 F SPLICE LI	1200 ENGTHS.	1530	1890	I	
LAPPED SPLICE EPOXY COATE	LENGTHS	FOR BARS	N COLUMN	S REFER TO	0 AS3600 OR	SUPERINT	ENDENT.		
LONOTE COLLO							CONCRETE		
		REFER TO	AS3600 OF	R SUPERINT	ENDENT.				
	LENGTHS	FOR VERTI	AS3600 OF	AND HORIZ	CONTAL BAR	S WITH LES	S THAN 30	mm CONCRETE	
LAPPED SPLICE CAST BELOW T COVER	LENGTHS HE BAR) SP f'c	REFER TO FOR VERTI ACED AT ≥ N12	AS3600 OF CAL BARS ( 150 mm CE N16	AND HORIZ NTRES TO 0 N20	CONTAL BAR	S WITH LES	S THAN 30	mm CONCRETE	
LAPPED SPLICE CAST BELOW T	LENGTHS HE BAR) SP	FOR VERTI ACED AT ≥	AS3600 OF CAL BARS ( 150 mm CEI	AND HORIZ	CONTAL BAR	S WITH LES	S THAN 30 OWING UN	mm CONCRETE	
LAPPED SPLICE CAST BELOW T COVER ≥ 25	LENGTHS HE BAR) SP fc ≥ 20	. REFER TC FOR VERTI ACED AT ≥ N12 590 490 390	AS3600 OF CAL BARS ( 150 mm CE 890 750 600	R SUPERINT AND HORIZ NTRES TO 0 1210 1040 840	TENDENT. CONTAL BAR: COMPLY WIT N24 - 1340 1110	S WITH LES H THE FOLI N28 - - 1400	S THAN 301 OWING UN N32 - 1710	mm CONCRETE	
LAPPED SPLICE CAST BELOW T ≥ 26 ≥ 30 ≥ 40 ≥ 50	LENGTHS HE BAR) SP f°c ≥ 20 ≥25 ≥32 ≥40	. REFER TC FOR VERTI ACED AT ≥	AS3600 OF CAL BARS ( 150 mm CE 890 750 600 480	R SUPERINT AND HORIZ NTRES TO 0 1210 1040	TENDENT. CONTAL BAR COMPLY WIT N24 - 1340	S WITH LES H THE FOLI N28	S THAN 300 OWING UN N32	mm CONCRETE	
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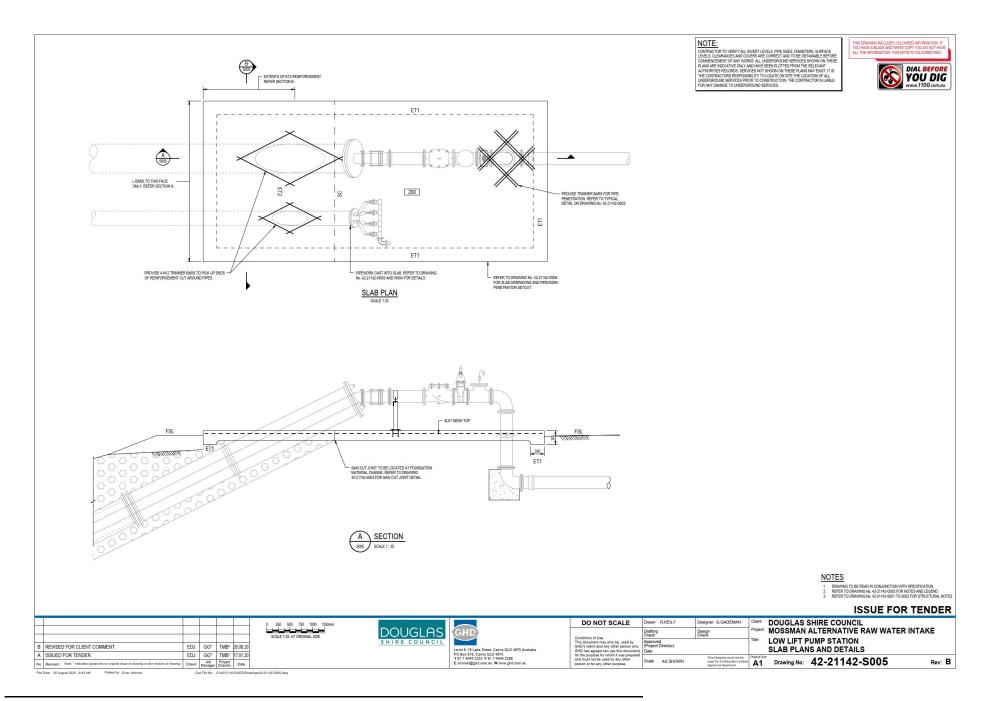
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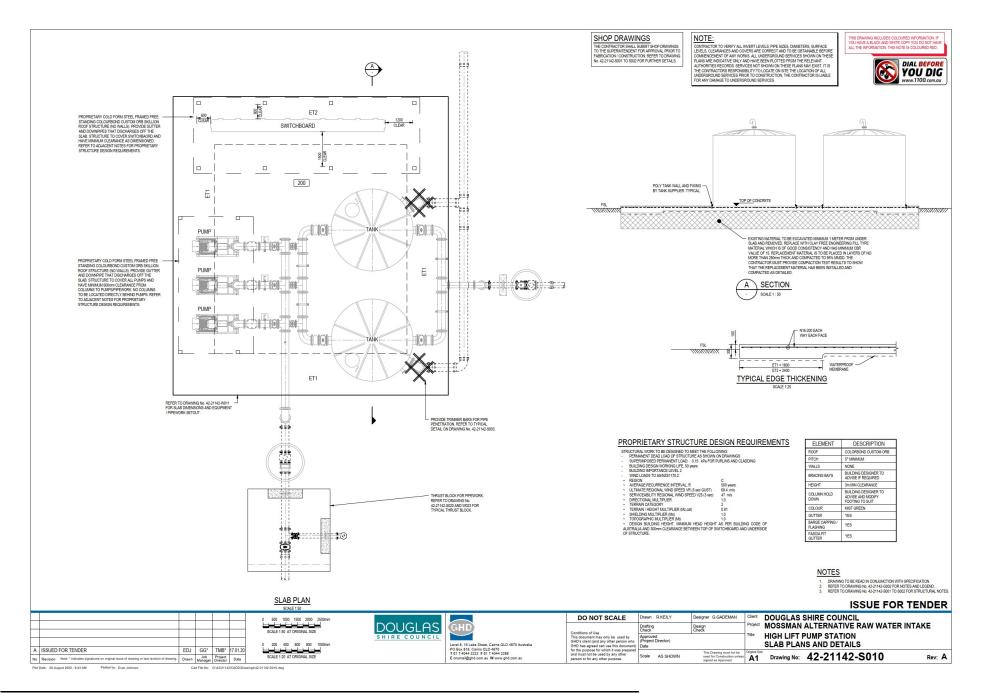
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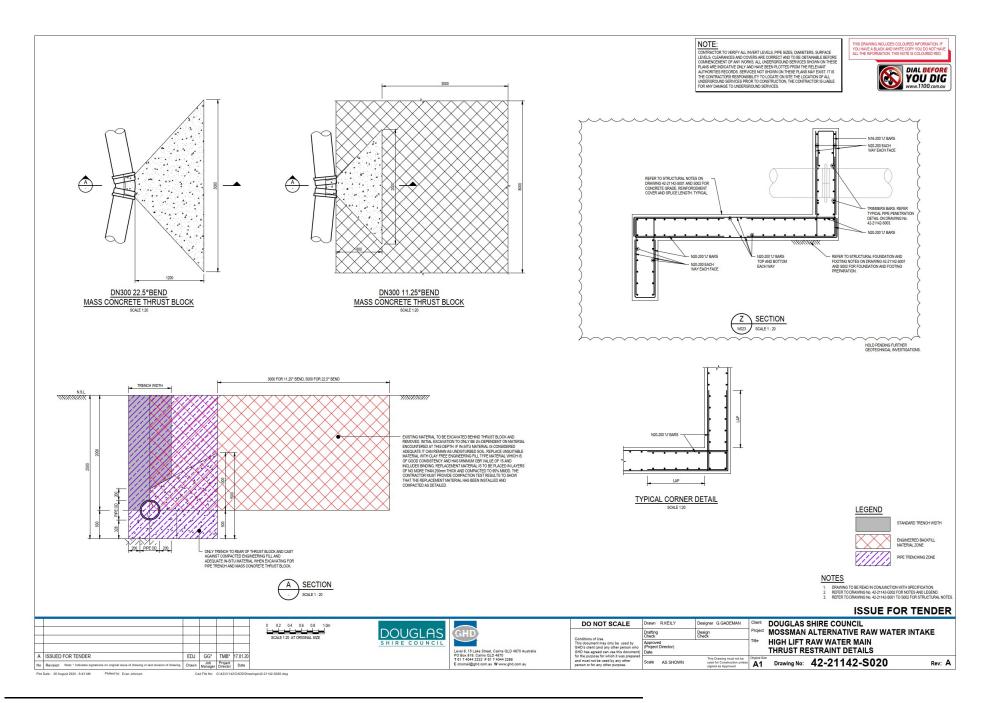
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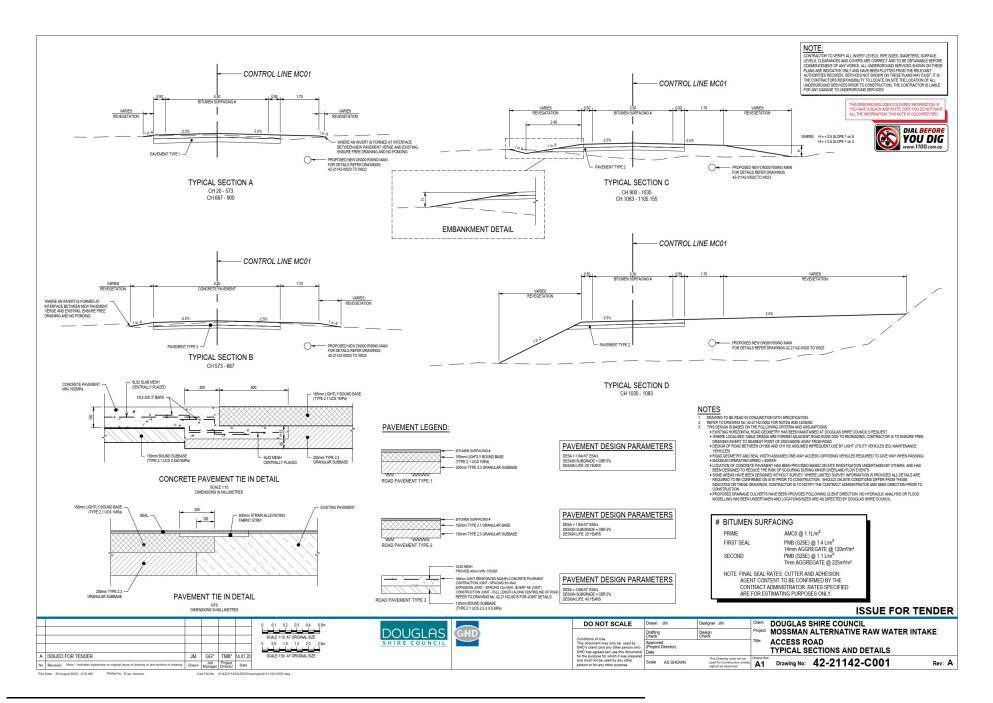
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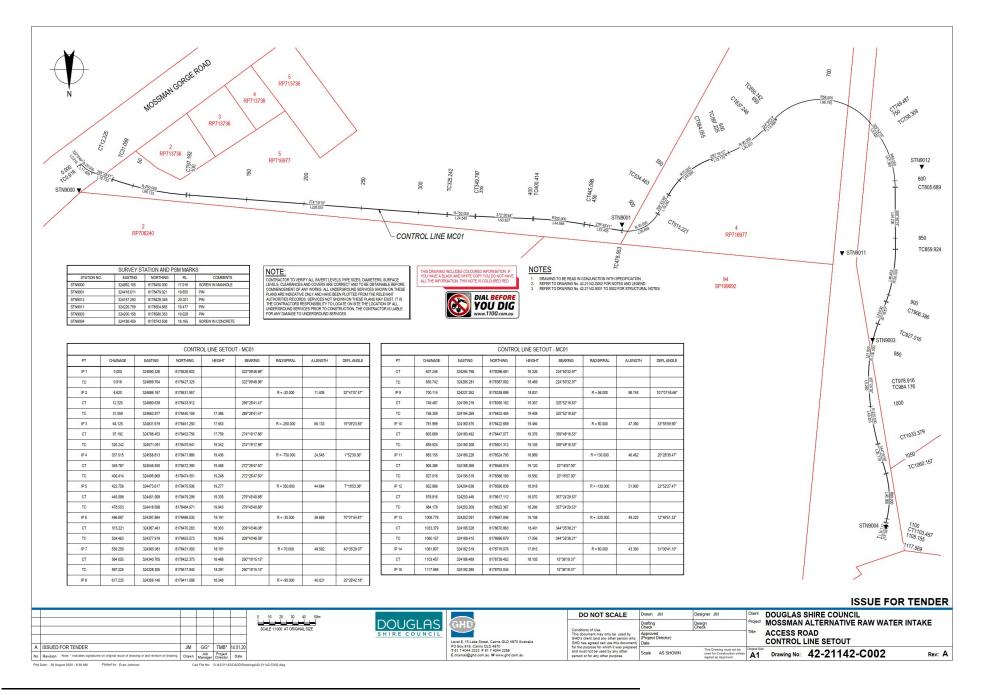


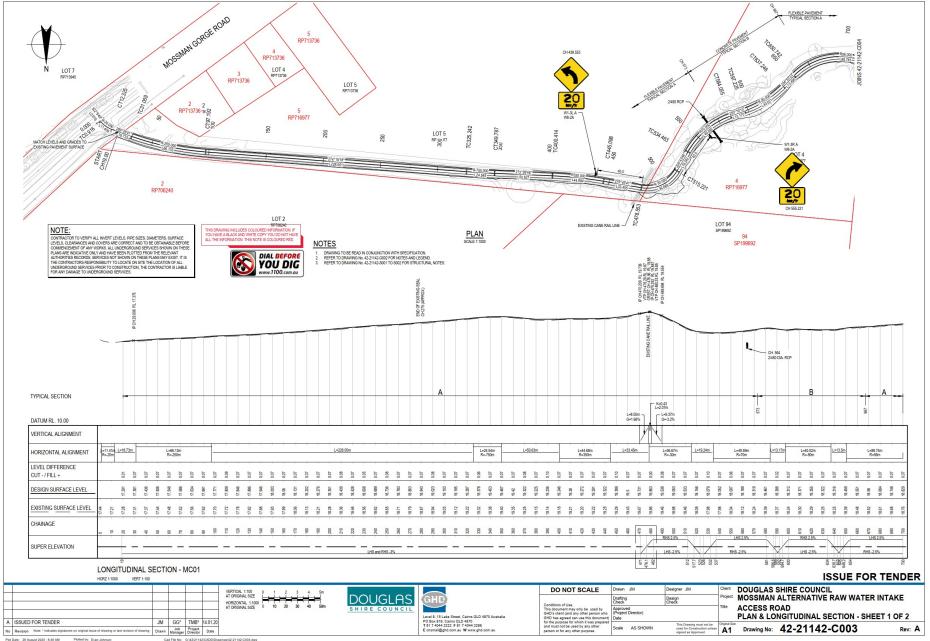


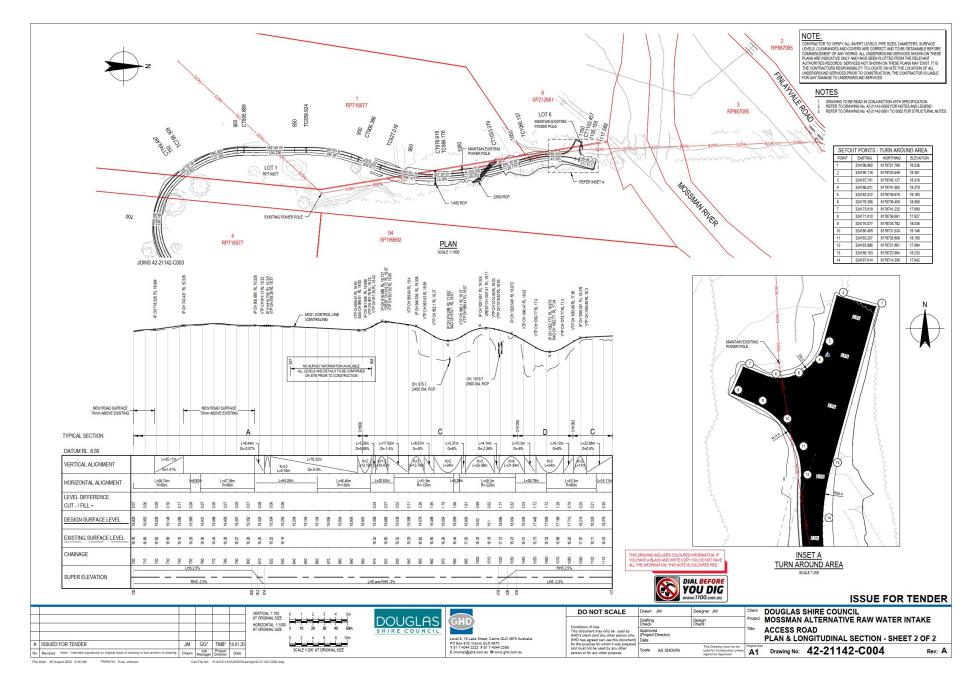


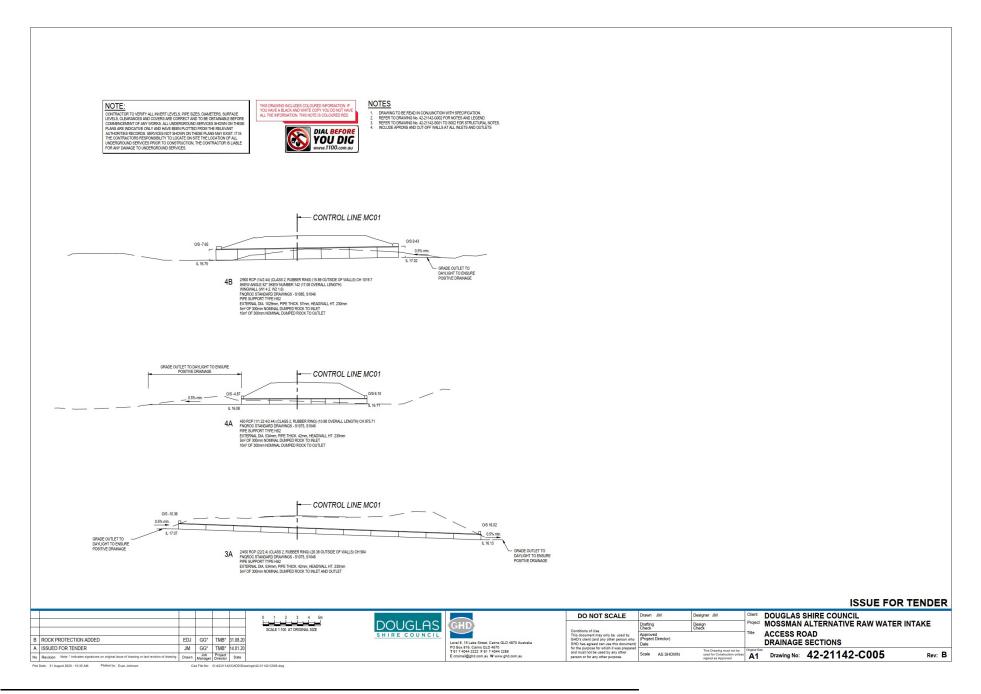


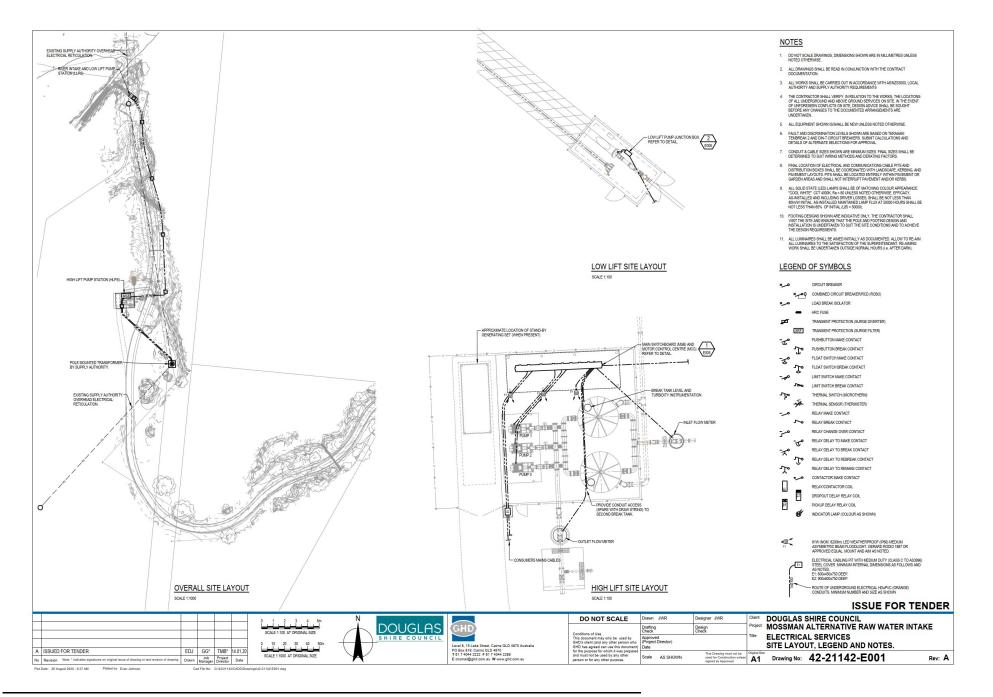


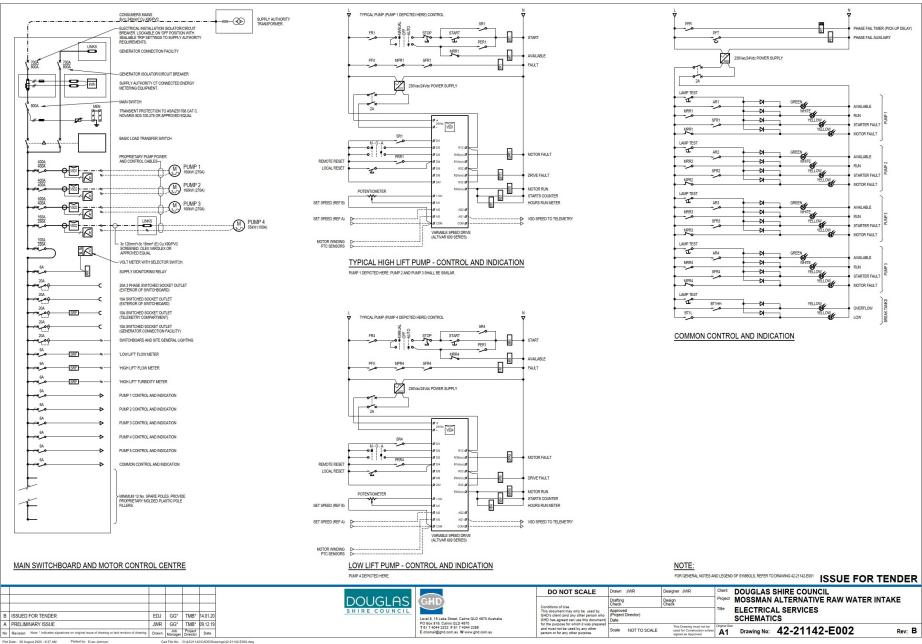


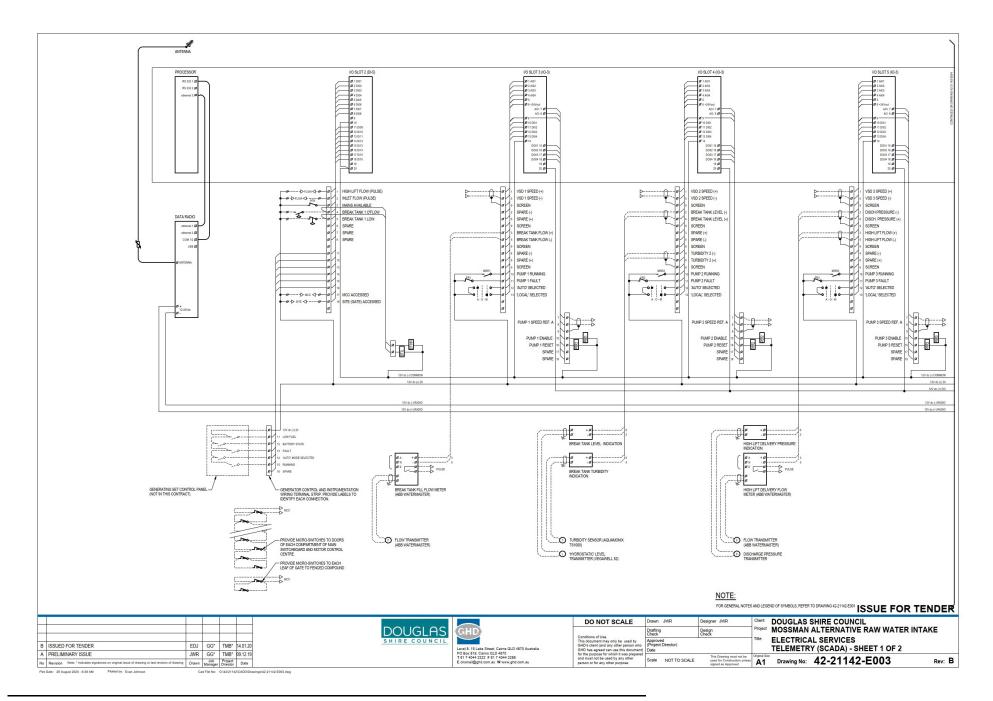


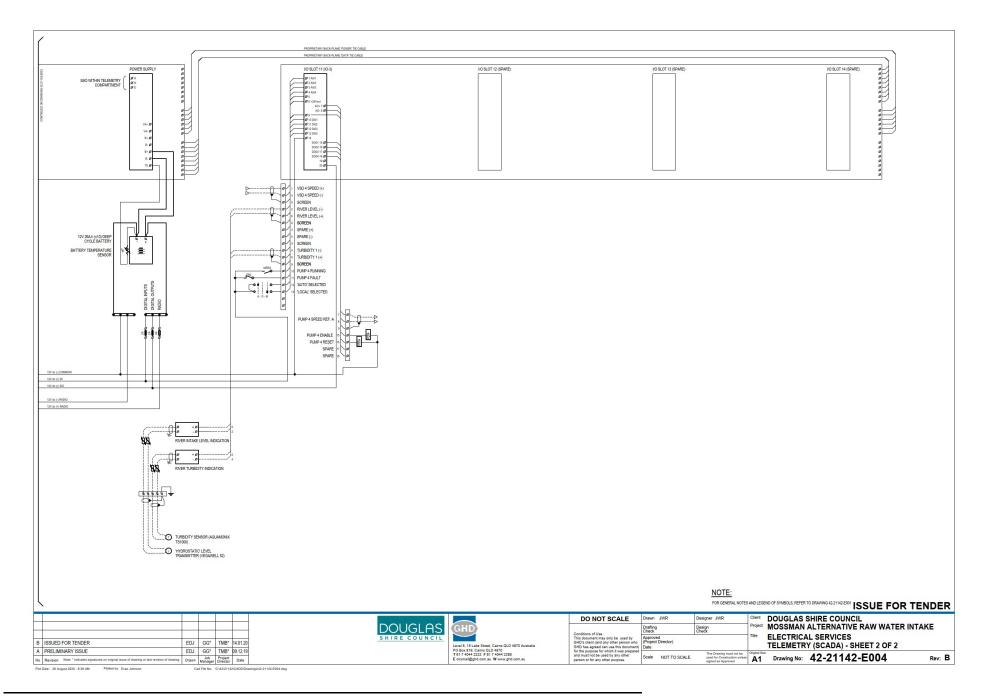


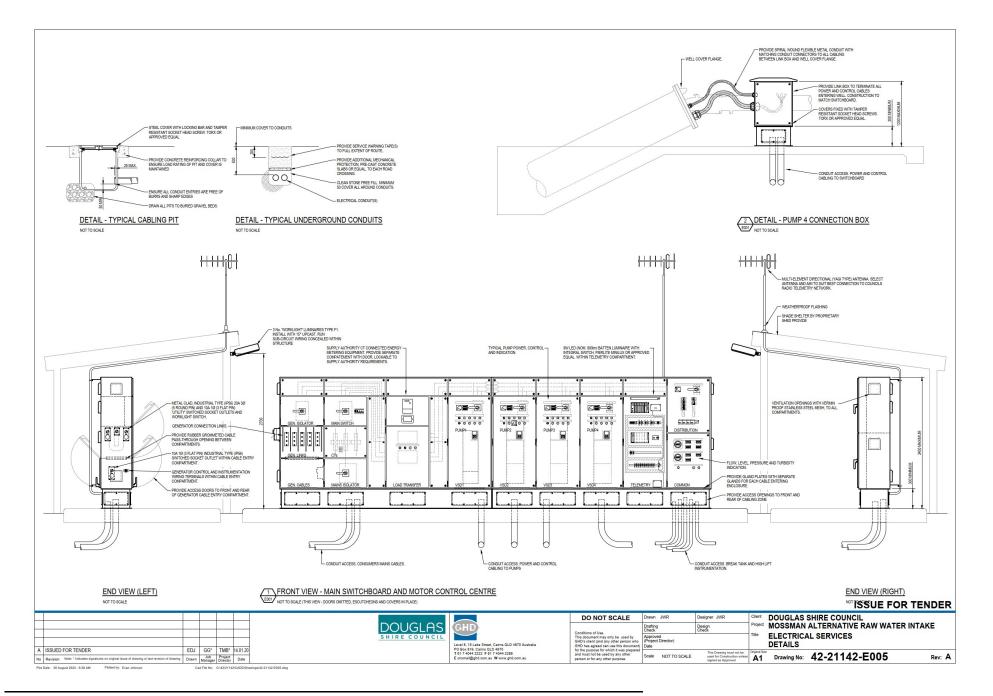


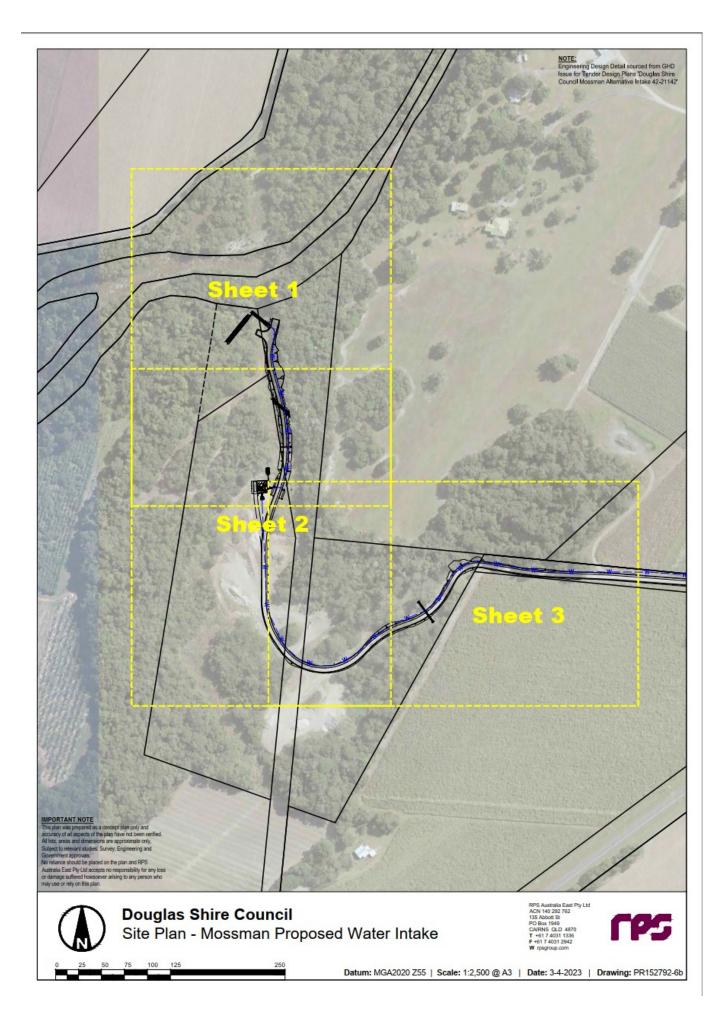


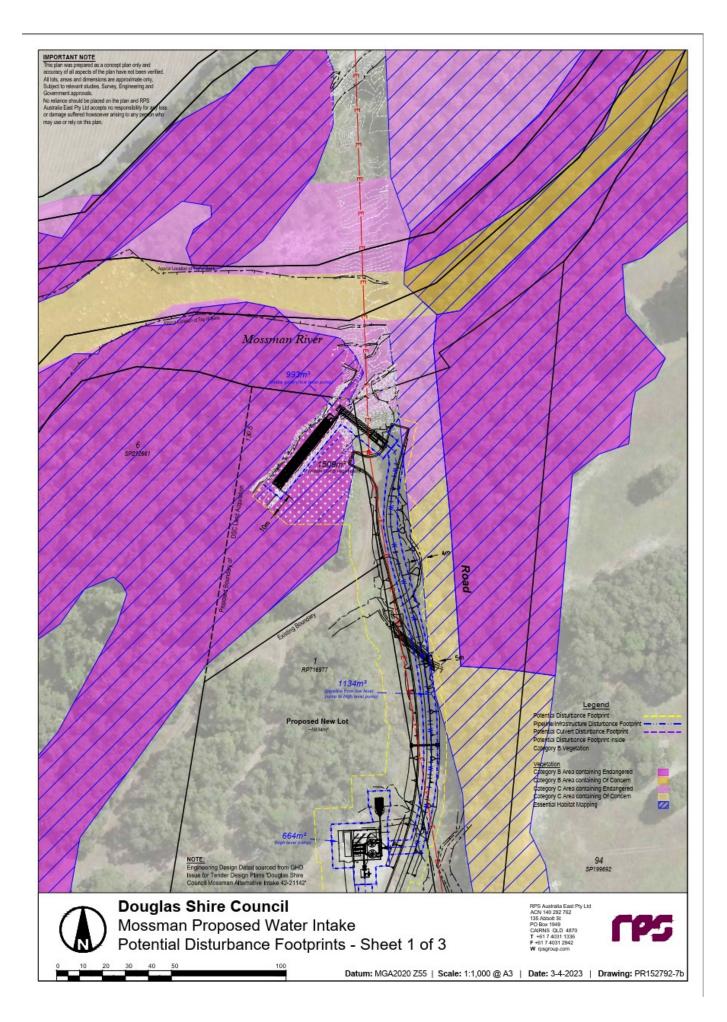


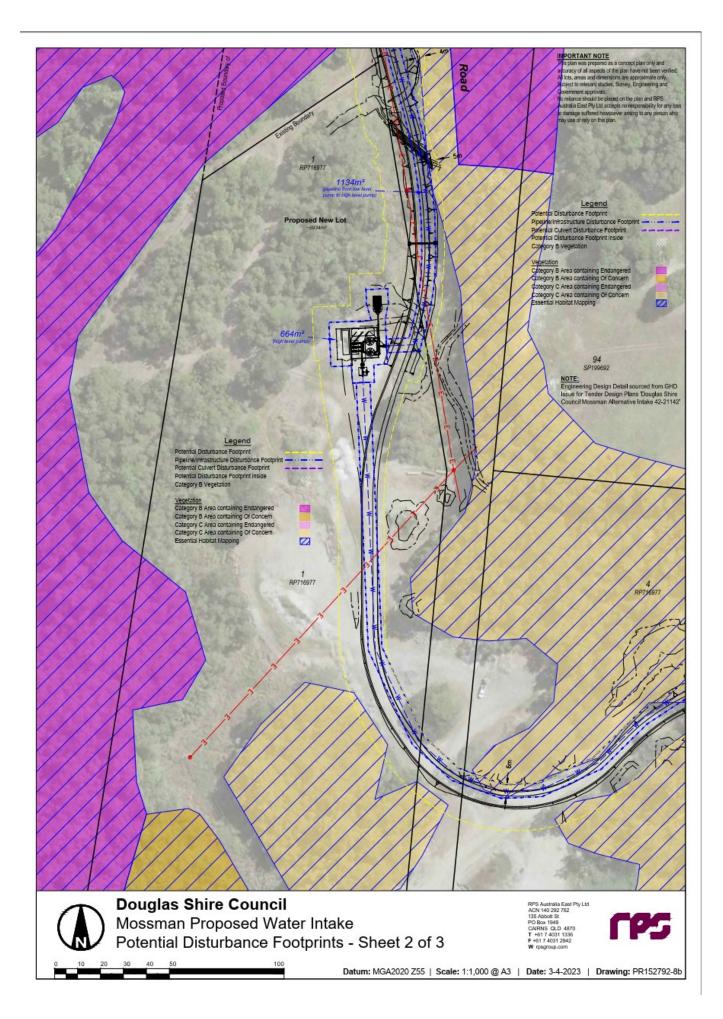


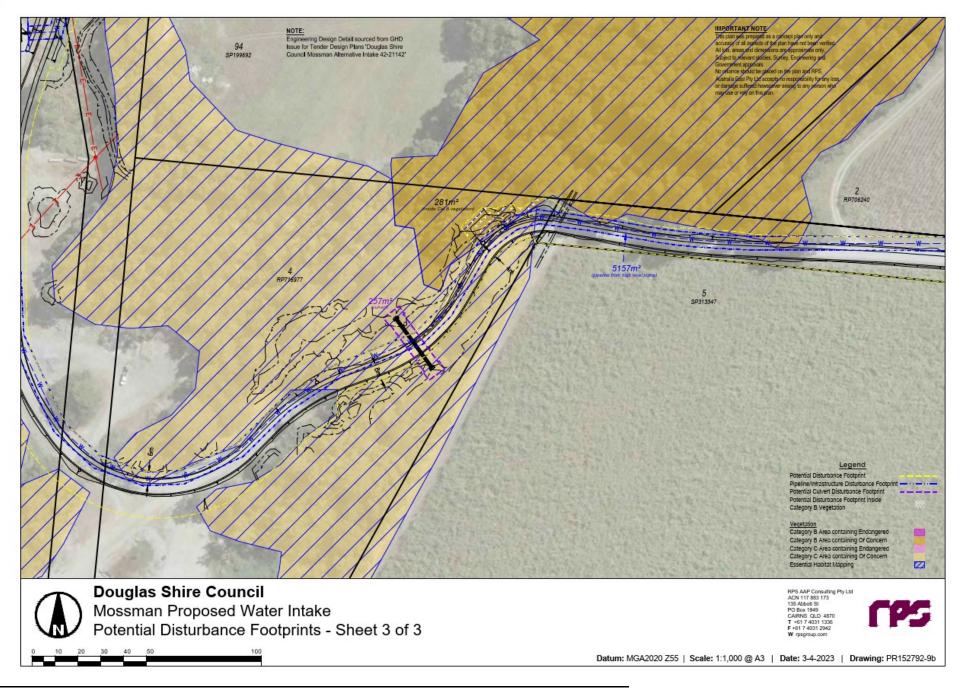














# **REHABILITATION PLAN**

Mossman Water Intake



rpsgroup.com

Document status					
Version	Purpose of document	Authored by	Reviewed by	Approved by	Review date
0	Rehabilitation Plan	N. May	M Davis	N. May	18 May 2023
1	Minor edits	O. Caddick-King	M. Davis	M. Davis	26 July 2023

#### Approval for issue

Natalie May

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26 July 2023

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# 1 INTRODUCTION

RPS AAP Consulting Pty Ltd (RPS) has been engaged by Douglas Shire Council (DSC) to prepare a Vegetation Rehabilitation Plan to enable vegetation of cleared areas required for the development of the proposed additional water supply intake, and linked intake infrastructure extracting water from the Mossman River. The water supply intake is located on part of Lot 6 on SP212661, the project will be management and developed by Council.

The related infrastructure, which includes a low-level pump, high-level pump, and linked pipeline are proposed to be placed on Lot 6 on SP212661, Lot 1 and 4 on RP716977 and Road Reserve with the proposed works extending from the anabranch of the Mossman River to Mossman Gorge Road via Drumsara Road, Mossman.

As part of this engagement, RPS were required to create a Rehabilitation Plan to address any potential vegetation/ land health impacts and provide recommendations to enable DSC to commence work and support their Development Approval conditions.

The following actions were taken in delivering the Rehabilitation Plan:

- Source and review existing desktop ecological information/mapping for the subject site, plus any local knowledge of the ecological values based on previous assessments undertaken in the vicinity of the project area.
- Prepare a Rehabilitation Report.
- Provide recommendations on land rehabilitation areas across the project area.

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# 2 PROJECT AREA

The proposed works are shown in Appendix A for the water intake infrastructure.

The site includes regional ecosystem (RE) 7.3.17 which is listed as Endangered while RE 7.3.19 and 7.3.10 are listed as Of Concern under the *Vegetation Management Act*. Further east from the waterway, the RE changes to 7.3.19 and 7.3.10. These vegetation communities are key elements of healthy functional ecosystems. Figure 1 shows the project site location. Figure 2 shows the impact of RE 7.3.17.



Figure 1 Project Area and RE Mapping

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Figure 2 Mapped RE 7.3.17, RE 7.3.19 and RE 7.3.10

Approximately 1509m<sup>2</sup> of RE 7.3.17 is required to be cleared as a result of the water intake infrastructure, refer to Figure 2 above and Appendix A. It is proposed that this area is naturally revegetated as much as feasible allowing for ongoing operations through the methodology detailed below.

#### 2.1.1 Flora

#### 2.1.1.1 Existing Plant Communities Present on Site

There are three (3) regional ecosystems present within the project area. One (1) RE 7.3.17 listed as Endangered and two (2) RE 7.3.19 and 7.3.10 listed as Of Concern under the Vegetation Management Act. Regional Ecosystem/plant community descriptions for all four are listed below:

#### 2.1.1.1.1 Regional Ecosystem: 7.3.17

Vegetation Management Act: Endangered

Biodiversity Status: Endangered

Description: Complex mesophyll vine forest. Well-drained alluvium of high fertility. Not a Wetland.

#### 2.1.1.1.2 Regional Ecosystem: 7.3.19

Vegetation Management Act: Of Concern

Biodiversity Status: Of Concern

**Description:** Corymbia intermedia (pink bloodwood) or *C. tessellaris* (Moreton Bay ash) +/- Eucalyptus tereticornis (forest red gum) open forest (or vine forest with these species as emergents). Well-drained alluvium. Not a Wetland.

Vegetation communities in this regional ecosystem include:

7.3.19a: Corymbia intermedia, Eucalyptus tereticornis, E. drepanophylla, Allocasuarina torulosa, A. littoralis, Lophostemon suaveolens, woodland with Acacia cincinnata, A. flavescens, Banksia aquilonia and Xanthorrhoea johnsonii. Well-drained alluvium. Not a Wetland.

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7.3.19b: Corymbia tessellaris and C. intermedia woodland and open forest. Well-drained alluvium. Not a Wetland.

7.3.19c: *Corymbia tessellaris* and *C. intermedia* woodland and open forest with a very well-developed vine forest understorey. Well-drained alluvium. Not a Wetland.

7.3.19d: Corymbia intermedia open forest. Well-drained alluvium. Not a Wetland.

7.3.19e: *Corymbia intermedia* open forest with a very well-developed vine forest understorey. Well-drained alluvium. Not a Wetland.

7.3.19f: Eucalyptus moluccana woodland and open forest. Alluvium. Not a Wetland.

7.3.19g: Eucalyptus tereticornis, E. drepanophylla, E. portuensis, Corymbia intermedia, C. tessellaris, woodland and open forest with Allocasuarina torulosa and Angophora floribunda. Uplands and highlands on alluvium, of the dry rainfall zone. Not a Wetland.

7.3.19h: Corymbia tessellaris +/- Eucalyptus tereticornis, C. intermedia, E. drepanophylla, E. platyphylla and Lophostemon suaveolens layered grassy woodland with Acacia celsa and Cycas media. Lowlands on alluvium, of the wet and moist rainfall zones. Not a Wetland.

7.3.19i: *Corymbia intermedia, Allocasuarina torulosa* and *Lophostemon suaveolens* woodland and open forest. Uplands on alluvium, of the moist rainfall zone. Not a Wetland.

7.3.19j: Themeda triandra and Imperata cylindrica grassland. Alluvium, Palm Islands. Not a Wetland.

#### 2.1.1.1.3 Regional Ecosystem 7.3.10

#### Vegetation Management Act: Of Concern

#### Biodiversity Status: Endangered

Simple-complex mesophyll to notophyll vine forest. Moderately to poorly-drained alluvial plains of moderate fertility. Contains Palustrine.

Vegetation communities in this regional ecosystem include:

7.3.10a: Mesophyll vine forest. Moderately to poorly-drained alluvial plains, of moderate fertility. Lowlands of the very wet and wet zone. Not a Wetland.

7.3.10b: Mesophyll vine forest recovering from disturbance, with *Acacia spp.* canopy or emergents. Moderately to poorly-drained alluvial plains, of moderate fertility. Lowlands of the very wet and wet zone. Not a Wetland.

7.3.10c: Mesophyll vine forest with scattered *Archontophoenix alexandrae* (feather palm) in the sub-canopy. Seasonally inundated lowland alluvial plains. Palustrine.

7.3.10d: Open areas in vine forests dominated by sprawling vines, with emergent vine-draped trees or clumps of trees. Vines commonly include *Decalobanthus peltatus*. Alluvial plains. Not a Wetland.

7.3.10e: Simple notophyll vine forest with Blepharocarya involucrigera, Acacia celsa, Flindersia bourjotiana, Syzygium angophoroides, Dillenia alata, Grevillea baileyana, Syzygium kuranda, Calophyllum sil, Backbeuria burbarii and Arranyabia caranyabiaidea. Swampu allunial plaina. Backbeuria

Backhousia hughesii and Acronychia acronychioides. Swampy alluvial plains. Palustrine.

7.3.10f: Simple Notophyll vine forest with *Syzygium angophoroides*. Swampy alluvial plains. Palustrine. 7.3.10g: Simple notophyll vine forest dominated by *Blepharocarya involucrigera*. Alluvial plains. Not a Wetland.

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# 3 REVEGETATION METHODOLOGY

# 3.1 Weed Control

Weeds pose a serious threat to the project area. Weeds can harm native plants and animals, natural landscape and water catchment within the project area.

Environmental weeds threaten the biodiversity of the project area by:

- reducing the diversity and abundance of native species
- upsetting the balance of natural ecosystems.

Weeds compete with native plant species for nutrients, water, sunlight and space. Weeds can form dense areas of vegetation that shade and smother native species and may alter key environmental events. This can threaten both native plants and the animals that rely on them for food and shelter.

Weed control will involve herbicide treatments to reduce the amount of weeds present. This will reduce the competition for available water and nutrients with the native seedlings, leading to a more successful revegetation outcome. Weed control will be carried out once the annuals emerge.

Areas to be revegetated will ideally be sprayed before planting with a residual herbicide (e.g. Simazine) and knockdown (e.g. Glyphosate) mix, although it is noted that this area is within close proximity to the Mossman River and no herbicide should be allowed to runoff into the waterway.

A follow up spray in spring with Fusilade or Verdict may be required to control narrow leaf grasses. If narrow leaf grasses are prevalent on the site it would be anticipated this herbicide treatment would be required.

# 3.2 Topsoil Management

During construction, it is recommended that topsoil is stripped and stockpiled for reuse for revegetation. Topsoil should be stockpiled in small stockpiles to ensure the viability of the native seedstock.

# 3.3 Fauna Management

It is recognised that fauna along waterways can provide valuable corridor for movement of native wildlife. During clearing, it is recommended that a spotter catcher is engaged to prevent impacts to native wildlife and any cleared vegetation is mulched for reuse during revegetation or large logs/trees are retained and placed throughout the revegetation area to enable use for wildlife by providing habitat.

# 3.4 Timing

It is recommended that for improved success rates of native rehabilitation, the area is prepared prior to the wet season to allow for natural seed dispersal and establishment during the rains.

# 3.5 Site Preparation

Prior to planting/seeding any available site topsoil and mulched vegetation will be spread across the revegetation site to a minimum depth of 50 mm and not more than 100 mm thick. The topsoil and mulch will be blended at a 5:1 ratio before spreading and applied in one application.

# 3.6 Ongoing Maintenance and Monitoring

Monitoring should occur regularly at the site, preferably monthly for the first 6 months then reducing thereafter.

Ongoing monitoring will ensure the successful establishment of the revegetated rehabilitated areas.

**Criteria for success**: Follow-up herbicide treatment will take place when the weed cover (non-indigenous species) exceeds 30% and these weed species are assessed by the Council or contractor during the

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ongoing monitoring are deemed to be having a detrimental impact on the survival of the revegetation that will result in the quantity and species diversity dropping below the set completion criteria.

**Target composition:** 9-10 indigenous species present consistent with mapped vegetation 5 years after establishment. 10% Upper Story and 70% Mid Story and 20% Low Story. If the species density or diversity has dropped significantly below these amounts infill planting will be required.

Follow up weed control is likely to be vital to the success of native vegetation re-establishment.

# 3.7 Signage

Revegetated areas will be signed and preferably taped off to prevent access from staff where possible.

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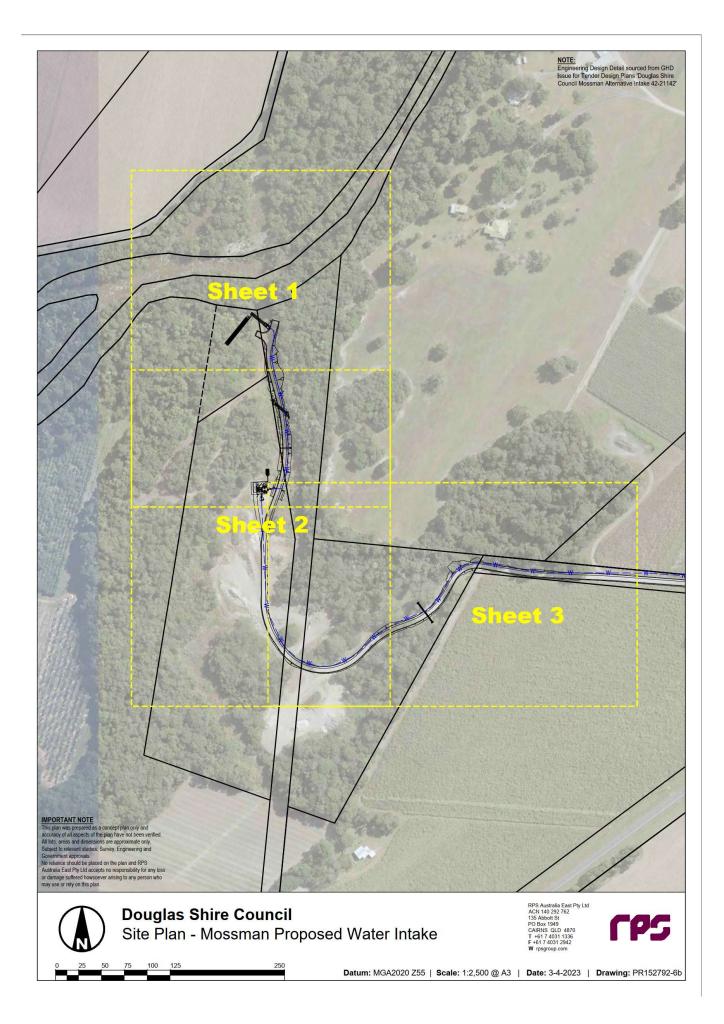
# 4 RECOMMENDATIONS AND CONCLUSION

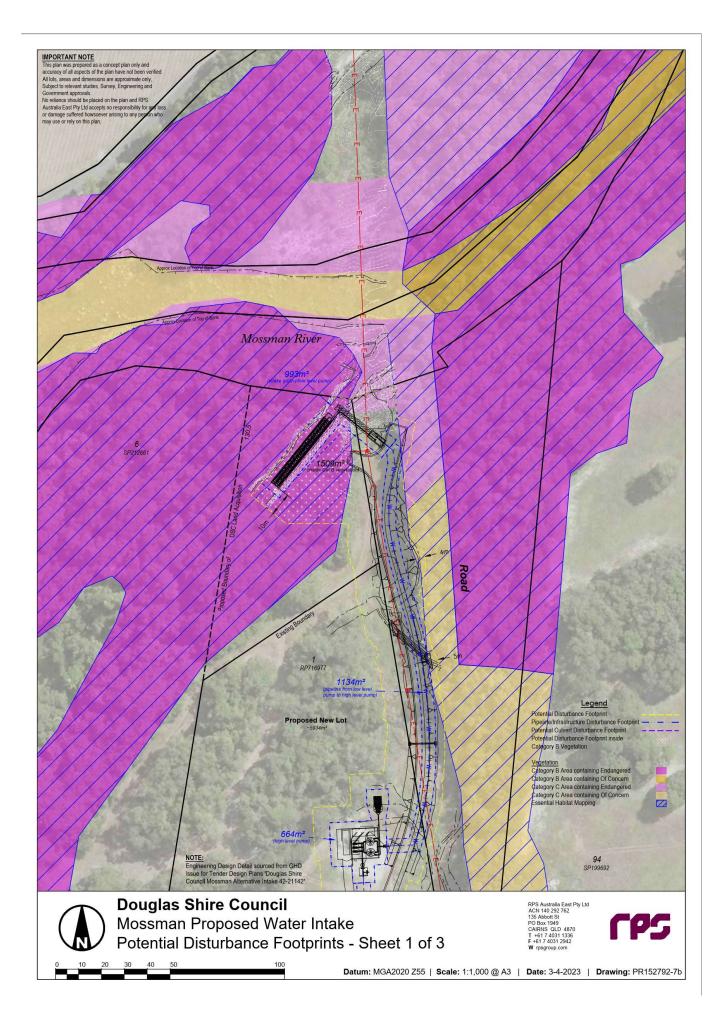
As detailed above, it is proposed that the area to be cleared for the Mossman Water Intake project will be naturally revegetated with active site preparation, monitoring and weeding for at least the first year or until the success criteria is met.

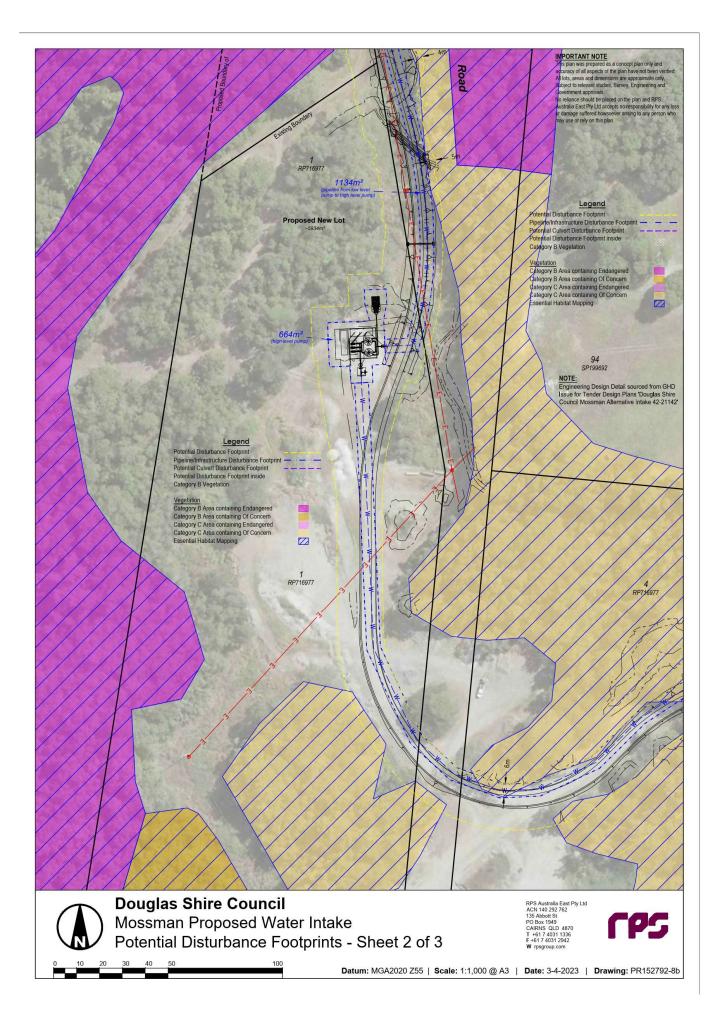
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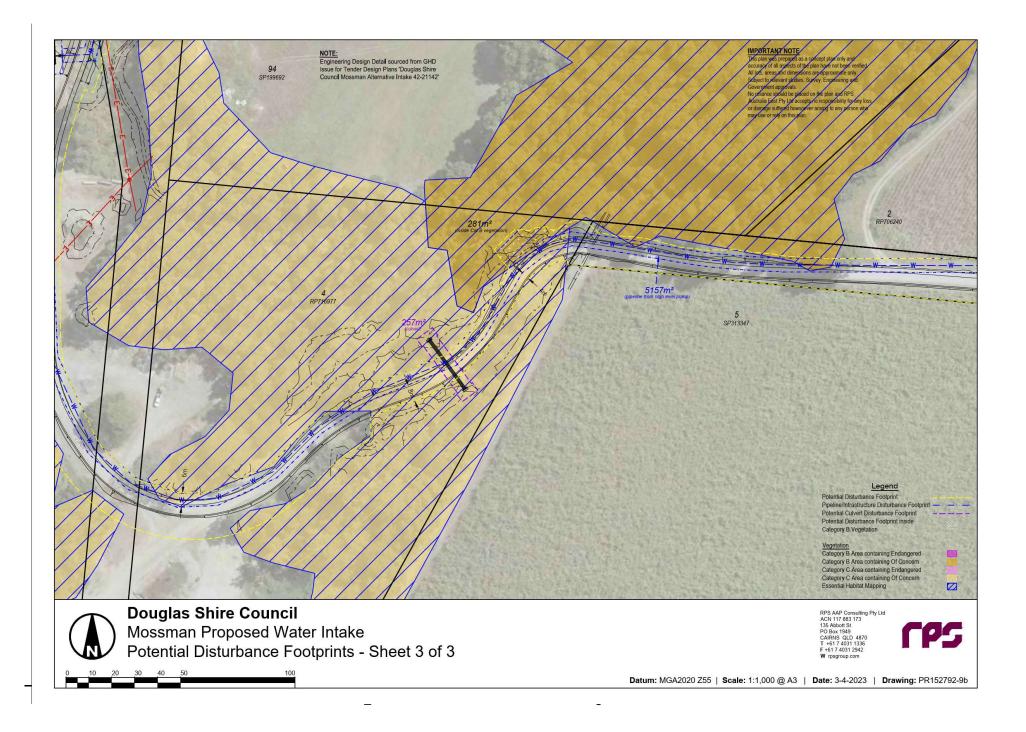
# **Appendix A Site Plan**

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		Queensland Government
SARA reference: Council reference Applicant referen	e: MCUC2023_5485/1	
12 September :	2023	
Chief Executive	Officer	
Douglas Shire	Council	
PO Box 723		
MOSSMAN QL		
enquiries@dou	glas.qld.gov.au	
Attention:	Jenny Elphinstone	

Dear Sir/Madam

# SARA referral agency response—Utility Installation - Additional Water Supply from Mossman River, Mossman Gorge

(Referral agency response given under section 56 of the *Planning Act 2016*)

The development application described below was confirmed as properly referred by the State Assessment and Referral Agency (SARA) on 11 August 2023.

Response
----------

Outcome:	Referral agency response – with conditions
Date of response:	12 September 2023
Conditions:	The conditions in <b>Attachment 1</b> must be attached to any development approval
Advice:	Advice to the applicant is in Attachment 2
Reasons:	The reasons for the referral agency response are in Attachment 3

#### **Development details**

Description:	Development permit	Material change of use for Utility Installation (an additional water supply intake and associated intake infrastructure extracting water from an anabranch of the Mossman River)
SARA role:	Referral agency	
Page 1 of 7		Far North Queensland regional office Ground Floor, Cnr Grafton and Hartley Street, Cairns PO Box 2358, Cairns QLD 4870

2308-36116 SRA

SARA trigger:	Schedule 10, Part 3, Division 4, Table 3 (Planning Regulation 2017) – Material change of use involving vegetation clearing
SARA reference:	2308-36116 SRA
Assessment manager:	Douglas Shire Council
Street address:	1 & 3 Manjal Dimbi Road (and adjacent road reserve) and Lot 6 Gorge Road (and adjacent road reserve), Mossman Gorge
Real property description:	Lot 4 on RP716977, Lot 1 on RP716977, and Lot 6 on SP212661
Applicant name:	Douglas Shire Council
Applicant contact details:	C/- RPS AAP Consulting Pty Ltd 135 Abbott Street Cairns QLD 4870 <u>owen.caddick-king@rpsgroup.com.au</u>
<i>Human Rights Act 2019</i> considerations:	Section 58 of the <i>Human Rights Act 2019</i> specifies required conduct for public entities when acting or making a decision. Sections 15 – 37 of the <i>Human Rights Act 2019</i> identifies the human rights a public entity must consider in making a decision. This decision does not limit the above identified human rights.

#### Representations

An applicant may make representations to a concurrence agency, at any time before the application is decided, about changing a matter in the referral agency response (s.30 Development Assessment Rules). Copies of the relevant provisions are in **Attachment 4**.

A copy of this response has been sent to the applicant for their information.

For further information please contact Anthony Westbury, Planning Officer, on 40373214 or via email CairnsSARA@dsdilgp.qld.gov.au who will be pleased to assist.

Yours sincerely

Kuhuman

Brett Nancarrow Manager (Planning)

cc Douglas Shire Council, owen.caddick-king@rpsgroup.com.au

enc Attachment 1 - Referral agency conditions Attachment 2 - Advice to the applicant Attachment 3 - Reasons for referral agency response Attachment 4 - Representations about a referral agency response Attachment 5 - Documents referenced in conditions

State Assessment and Referral Agency

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Attachment 1—Referral agency conditions (Under section 56(1)(b)(i) of the *Planning Act 2016* the following conditions must be attached to any development approval relating to this application) (Copies of the plans and specifications referenced below are found at Attachment 5)

No.	Conditions	Condition timing	
Reco	Reconfiguring a lot		
clear the D deve	Schedule 10, Part 3, Division 4, Table 3 – Material change of use involving native vegetation clearing—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Resources to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	<ul> <li>Clearing of vegetation must:</li> <li>(a) Only occur within Area A (Part A1-A4) as shown on the attached: <ul> <li>(i) Vegetation Management Plan, prepared by Queensland</li> <li>Government, reference VMP 2308-36116 SRA, Sheet 1 of 1, version 2, dated 12 September 2023; and</li> <li>(ii) Attachment to Vegetation Management Plan VMP 2308-36116 SRA, Derived Reference Points for GPS.</li> </ul> </li> <li>(b) Not exceed 0.197 hectares.</li> </ul>	At all times.	
2.	Any person(s) engaged or employed to carry out the clearing of vegetation under this development approval must be provided with a full copy of this development approval and must be made aware of the full extent of areas where the clearing of vegetation must not occur.	Prior to clearing.	

State Assessment and Referral Agency

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# Attachment 2—Advice to the applicant

Ger	General advice		
1.	Terms and phrases used in this document are defined in the <i>Planning Act 2016</i> its regulation or the State Development Assessment Provisions (SDAP) v3.0. If a word remains undefined it has its ordinary meaning.		
2.	<b>Operational works for waterway barrier works</b> Aspects of the proposed access road may constitute waterway barrier works, as it appears the proposed works may be in areas that would meet the definition of a waterway as defined under the <i>Fisheries Act 1994</i> .		
	Please review the Department of Agriculture and Fisheries' <u>What is waterway?</u> factsheet to determine whether the areas between CH950 to CH1000; CH1010 to CH1030; and CH1040 to CH1090 of the Access Road Plan (drawing no. 42-21142-C004), may meet the definition of a waterway under the <i>Fisheries Act 1994</i> .		
	If these areas are waterways, the proposed culverts/filling of these areas will constitute waterway barrier works and you are advised to seek further pre-lodgement advice from SARA to determine waterway barrier works requirements.		

State Assessment and Referral Agency

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#### Attachment 3—Reasons for referral agency response

(Given under section 56(7) of the Planning Act 2016)

#### The reasons for the SARA decision are:

The proposed development, with conditions, complies with the relevant provisions of State code 16: Native vegetation clearing, as follows:

- The proposed development has reasonably avoided, and minimised, the impacts to native vegetation and essential habitat.
- The development footprint has been located within non-remnant vegetation and the existing access track, wherever possible.
- Clearing of endangered regional ecosystems, of concern regional ecosystems, and essential habitat, is within acceptable limits.
- Clearing will retain sufficient vegetation in the subject lots and adjacent landscape to maintain ecological connectivity.

#### Material used in the assessment of the application:

- the development application material and submitted plans
- Planning Act 2016
- Planning Regulation 2017
- the State Development Assessment Provisions (version 3.0)
- the Development Assessment Rules
- SARA DA Mapping system
- State Planning Policy mapping system
- Human Rights Act 2019

State Assessment and Referral Agency

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# Attachment 4— Representations about a referral agency response

(page left intentionally blank - attached separately)

State Assessment and Referral Agency

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# Development Assessment Rules—Representations about a referral agency response

The following provisions are those set out in sections 28 and 30 of the Development Assessment Rules<sup>1</sup> regarding **representations about a referral agency response** 

# Part 6: Changes to the application and referral agency responses

28 Concurrence agency changes its response or gives a late response

- 28.1. Despite part 2, a concurrence agency may, after its referral agency assessment period and any further period agreed ends, change its referral agency response or give a late referral agency response before the application is decided, subject to section 28.2 and 28.3.
- 28.2. A concurrence agency may change its referral agency response at any time before the application is decided if—
  - (a) the change is in response to a change which the assessment manager is satisfied is a change under section 26.1; or
  - (b) the Minister has given the concurrence agency a direction under section 99 of the Act; or
  - (c) the applicant has given written agreement to the change to the referral agency response.<sup>2</sup>

28.3. A concurrence agency may give a late referral agency response before the application is decided, if the applicant has given written agreement to the late referral agency response.

- 28.4. If a concurrence agency proposes to change its referral agency response under section 28.2(a), the concurrence agency must—
  - (a) give notice of its intention to change its referral agency response to the assessment manager and a copy to the applicant within 5 days of receiving notice of the change under section 25.1; and
  - (b) the concurrence agency has 10 days from the day of giving notice under paragraph (a), or a further period agreed between the applicant and the concurrence agency, to give an amended referral agency response to the assessment manager and a copy to the applicant.

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<sup>&</sup>lt;sup>1</sup> Pursuant to Section 68 of the *Planning Act 2016* 

In the instance an applicant has made representations to the concurrence agency under section 30, and the concurrence agency agrees to make the change included in the representations, section 28.2(c) is taken to have been satisfied.

# Part 7: Miscellaneous

#### 30 Representations about a referral agency response

30.1. An applicant may make representations to a concurrence agency at any time before the application is decided, about changing a matter in the referral agency response.<sup>3</sup>

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<sup>&</sup>lt;sup>3</sup> An applicant may elect, under section 32, to stop the assessment manager's decision period in which to take this action. If a concurrence agency wishes to amend their response in relation to representations made under this section, they must do so in accordance with section 28.

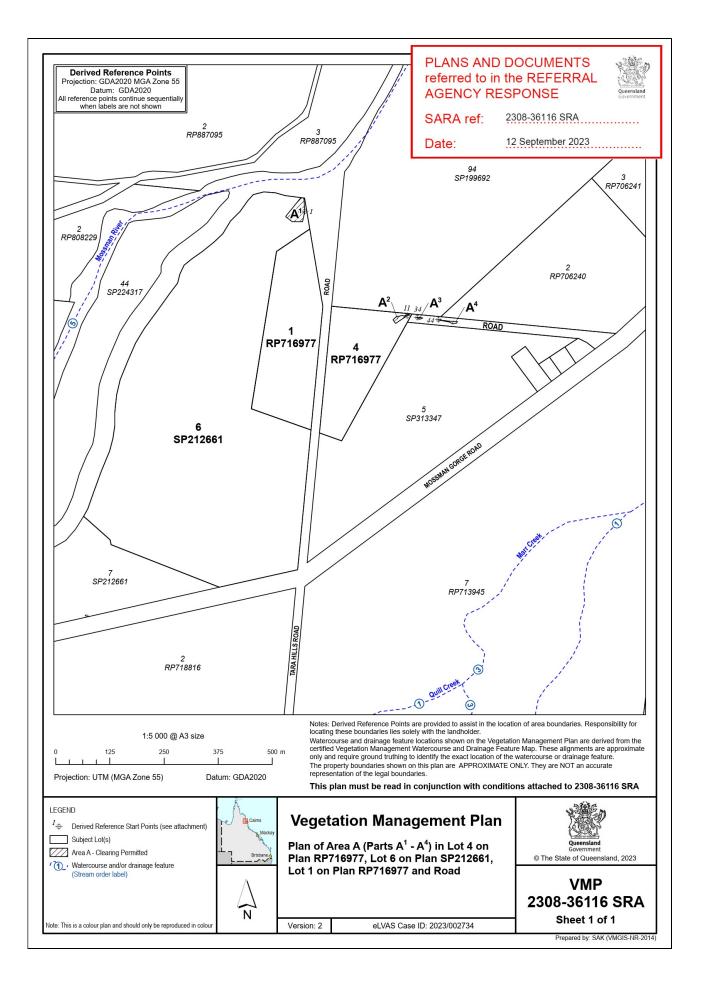
2308-36116 SRA

# Attachment 5—Documents referenced in conditions

(page left intentionally blank - attached separately)

State Assessment and Referral Agency

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## **Reasons for Decision**

- 1. The reasons for this decision are:
  - a. Sections 60, 62 and 63 of the *Planning Act 2016*:
  - b. to ensure the development satisfies the benchmarks of the 2018 Douglas Shire Planning Scheme Version 1.0; and
  - c. to ensure compliance with the *Planning Act 2016*.
- 2. Findings on material questions of fact:
  - a. the development application was properly lodged to the Douglas Shire Council 8 August 2023 under section 51 of the *Planning Act 2016* and Part 1 of the *Development Assessment Rules*;
  - b. the development application contained information from the applicant which Council reviewed together with Council's own assessment against the 2017 State Planning Policy and the 2018 Douglas Shire Planning Scheme Version 1.0 in making its assessment manager decision.
- 3. Evidence or other material on which findings were based:
  - a. the development triggered assessable development under the Assessment Table associated with the Rural Zone Code;
  - b. Council undertook an assessment in accordance with the provisions of sections 60, 62 and 63 of the *Planning Act 2016*; and
  - c. the applicant's reasons have been considered and the following findings are made:
    - i. Subject to conditions, the development satisfactorily meets the Planning Scheme benchmarks.

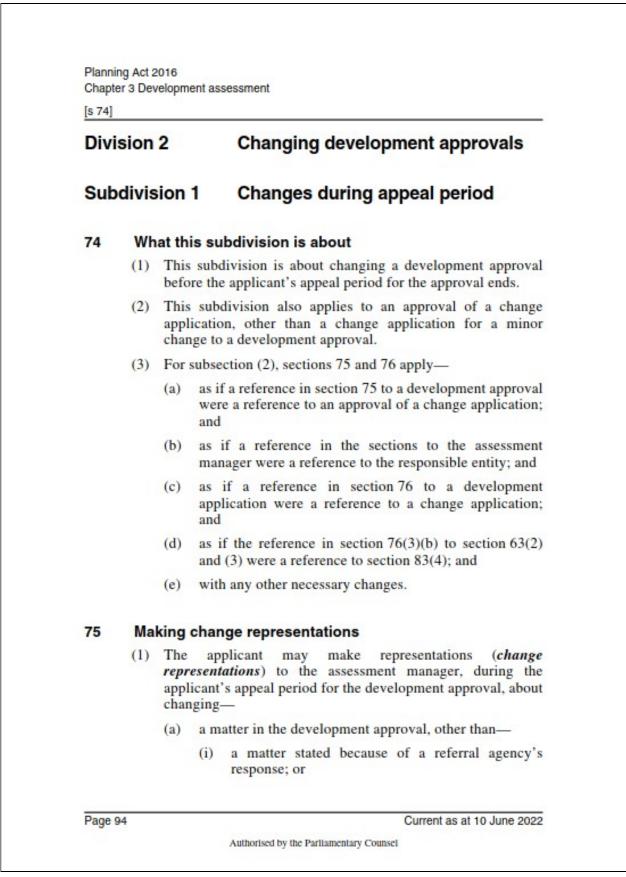
### Non-Compliance with Assessment Benchmarks

Through the conditions of the approval the development complies with the majority of the relevant codes and the planning scheme and no concerns are raised.

The code where conflict occurs, and where the development is supported despite the conflict, is discussed below.

Benchmark Reference	Alternative Measure/Comment
Natural Areas overlay	AO 1.1 Development avoids significant impact on the relevant environmental values.
	PO1 Development protects matters of environmental significance.
	Comment – the extent of vegetation impacted has been designed to be as minimal as possible. Nevertheless, part of the natural area will be permanently removed.
	The approval is supported despite the conflict as the water intake infrastructure is essential to allow Council to provide an uninterrupted water supply to the community and the proposed works will be undertaken in a manner that minimises the disturbance of MSES – Regulated Vegetation. The application includes a vegetation remediation plan and a condition of the approval requires that this be achieved.

# Extracts from the Planning Act 2016 - Making Representations During Applicant's Appeal Period



[s 76]

- (ii) a development condition imposed under a direction made by the Minister under chapter 3, part 6, division 2; or
- (b) if the development approval is a deemed approval—the standard conditions taken to be included in the deemed approval under section 64(8)(c).
- (2) If the applicant needs more time to make the change representations, the applicant may, during the applicant's appeal period for the approval, suspend the appeal period by a notice given to the assessment manager.
- (3) Only 1 notice may be given.
- (4) If a notice is given, the appeal period is suspended-
  - (a) if the change representations are not made within a period of 20 business days after the notice is given to the assessment manager—until the end of that period; or
  - (b) if the change representations are made within 20 business days after the notice is given to the assessment manager, until—
    - (i) the applicant withdraws the notice, by giving another notice to the assessment manager; or
    - (ii) the applicant receives notice that the assessment manager does not agree with the change representations; or
    - (iii) the end of 20 business days after the change representations are made, or a longer period agreed in writing between the applicant and the assessment manager.
- (5) However, if the assessment manager gives the applicant a negotiated decision notice, the appeal period starts again on the day after the negotiated decision notice is given.

### 76 Deciding change representations

(1) The assessment manager must assess the change representations against and having regard to the matters that

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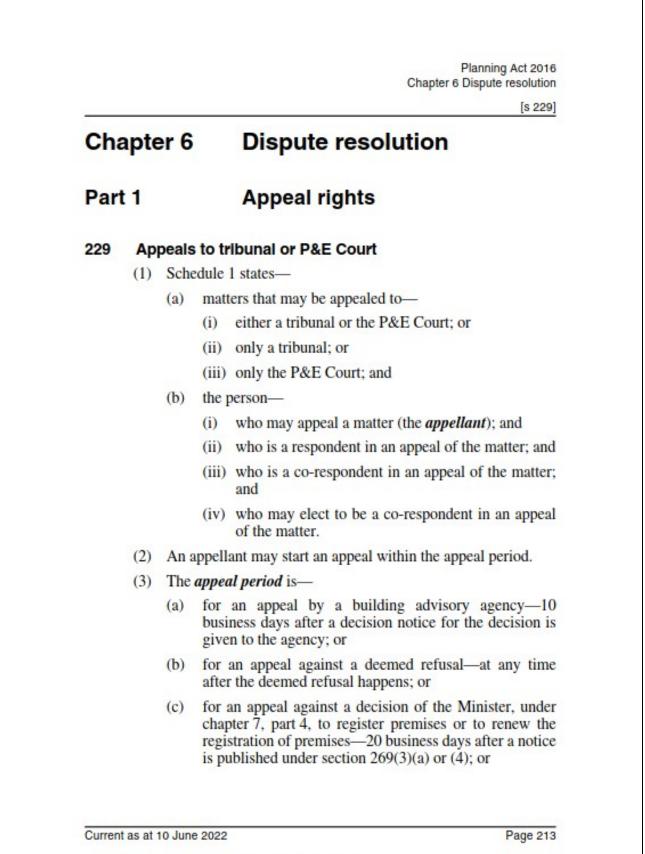
[s 76]

must be considered when assessing a development application, to the extent those matters are relevant.

- (2) The assessment manager must, within 5 business days after deciding the change representations, give a decision notice to—
  - (a) the applicant; and
  - (b) if the assessment manager agrees with any of the change representations—
    - (i) each principal submitter; and
    - (ii) each referral agency; and
    - (iii) if the assessment manager is not a local government and the development is in a local government area—the relevant local government; and
    - (iv) if the assessment manager is a chosen assessment manager—the prescribed assessment manager; and
    - (v) another person prescribed by regulation.
- (3) A decision notice (a negotiated decision notice) that states the assessment manager agrees with a change representation must—
  - (a) state the nature of the change agreed to; and
  - (b) comply with section 63(2) and (3).
- (4) A negotiated decision notice replaces the decision notice for the development application.
- (5) Only 1 negotiated decision notice may be given.
- (6) If a negotiated decision notice is given to an applicant, a local government may give a replacement infrastructure charges notice to the applicant.

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	(d)	notice-	<ul> <li>appeal against an infrastructure charges</li> <li>20 business days after the infrastructure charges</li> <li>s given to the person; or</li> </ul>
	(e)	applica given-	appeal about a deemed approval of a development tion for which a decision notice has not been -30 business days after the applicant gives the approval notice to the assessment manager; or
		for an a 2018—	appeal relating to the Plumbing and Drainage Act
		be D (c	r an appeal against an enforcement notice giver cause of a belief mentioned in the <i>Plumbing and</i> <i>rainage Act 2018</i> , section 143(2)(a)(i), (b) or )—5 business days after the day the notice is ven; or
		go	r an appeal against a decision of a local overnment or an inspector to give an action notice ader the <i>Plumbing and Drainage Act 2018</i> —5 isiness days after the notice is given; or
		ab Pl af	r an appeal against a failure to make a decision oout an application or other matter under the <i>lumbing and Drainage Act 2018</i> —at anytime ter the period within which the application of atter was required to be decided ends; or
			herwise—20 business days after the day the otice is given; or
	(g)	the dec	other appeal—20 business days after a notice of cision for the matter, including an enforcement is given to the person.
	Note-	_	
	See the P&E Court Act for the court's power to extend the apperiod.		
(4)		respon in the a	dent and co-respondent for an appeal may be appeal.

- (5) If an appeal is only about a referral agency's response, the assessment manager may apply to the tribunal or P&E Court to withdraw from the appeal.
- (6) To remove any doubt, it is declared that an appeal against an infrastructure charges notice must not be about—
  - (a) the adopted charge itself; or
  - (b) for a decision about an offset or refund-
    - (i) the establishment cost of trunk infrastructure identified in a LGIP; or
    - (ii) the cost of infrastructure decided using the method included in the local government's charges resolution.

## 230 Notice of appeal

- An appellant starts an appeal by lodging, with the registrar of the tribunal or P&E Court, a notice of appeal that—
  - (a) is in the approved form; and
  - (b) succinctly states the grounds of the appeal.
- (2) The notice of appeal must be accompanied by the required fee.
- (3) The appellant or, for an appeal to a tribunal, the registrar, must, within the service period, give a copy of the notice of appeal to—
  - (a) the respondent for the appeal; and
  - (b) each co-respondent for the appeal; and
  - (c) for an appeal about a development application under schedule 1, section 1, table 1, item 1—each principal submitter for the application whose submission has not been withdrawn; and
  - (d) for an appeal about a change application under schedule 1, section 1, table 1, item 2—each principal submitter for the application whose submission has not been withdrawn; and

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[s 231]

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		<ul> <li>(e) each person who may elect to be a co-respondent for the appeal other than an eligible submitter for a development application or change application the subject of the appeal; and</li> </ul>			
		(f) for an appeal to the P&E Court—the chief executive; and			
		(g) for an appeal to a tribunal under another Act—any other person who the registrar considers appropriate.			
(4)	(4)	The service period is—			
		<ul> <li>(a) if a submitter or advice agency started the appeal in the P&amp;E Court—2 business days after the appeal is started; or</li> </ul>			
		(b) otherwise—10 business days after the appeal is started.			
	(5)	A notice of appeal given to a person who may elect to be a co-respondent must state the effect of subsection (6).			
	(6)	A person elects to be a co-respondent to an appeal by filing a notice of election in the approved form—			
		<ul> <li>(a) if a copy of the notice of appeal is given to the person—within 10 business days after the copy is given to the person; or</li> </ul>			
		(b) otherwise—within 15 business days after the notice of appeal is lodged with the registrar of the tribunal or the P&E Court.			
	(7)	Despite any other Act or rules of court to the contrary, a copy of a notice of appeal may be given to the chief executive by emailing the copy to the chief executive at the email address stated on the department's website for this purpose.			
231	Non-appealable decisions and matters				
	(1)	Subject to this chapter, section 316(2), schedule 1 and the P&E Court Act, unless the Supreme Court decides a decision or other matter under this Act is affected by jurisdictional error, the decision or matter is non-appealable.			
Page 2	16	Current as at 10 June 2022			
		Authorised by the Parliamentary Counsel			

- (2) The Judicial Review Act 1991, part 5 applies to the decision or matter to the extent it is affected by jurisdictional error.
- (3) A person who, but for subsection (1) could have made an application under the *Judicial Review Act 1991* in relation to the decision or matter, may apply under part 4 of that Act for a statement of reasons in relation to the decision or matter.
- (4) In this section-

decision includes-

- (a) conduct engaged in for the purpose of making a decision; and
- (b) other conduct that relates to the making of a decision; and
- (c) the making of a decision or the failure to make a decision; and
- (d) a purported decision; and
- (e) a deemed refusal.

non-appealable, for a decision or matter, means the decision or matter-

- (a) is final and conclusive; and
- (b) may not be challenged, appealed against, reviewed, quashed, set aside or called into question in any other way under the *Judicial Review Act 1991* or otherwise, whether by the Supreme Court, another court, any tribunal or another entity; and
- (c) is not subject to any declaratory, injunctive or other order of the Supreme Court, another court, any tribunal or another entity on any ground.

### 232 Rules of the P&E Court

- A person who is appealing to the P&E Court must comply with the rules of the court that apply to the appeal.
- (2) However, the P&E Court may hear and decide an appeal even if the person has not complied with rules of the P&E Court.

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