

Town Planning Assessment Report

Appendix 10 – Hydraulics Services Concept Drawings

JIMBOOMBA WEST SUBSTATION

DISCIPLINE: HYDRAULIC SERVICES

CLIENT: ENERGEX

PERMIT APPLICATION REF: _____
DRAINAGE PLAN No.: _____
DESIGNER: MICHAEL OSSIPOW
QBCC LIC NO: 1070061
SOIL CLASSIFICATION: '...'

DRAWING LIST

H0000	COVER SHEET DRAWING LIST
H0001	LEGEND OF SYMBOLS, ABBREVIATIONS & LOCALITY PLAN
H0002	GENERAL NOTES
H0010	SITE PLAN
H1000	FLOOR PLAN DRAINAGE SERVICES
H2000	FLOOR PLAN WATER SERVICES

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS				REAL PROPERTY DESCRIPTION				CLIENT		ARCHITECT		CONSULTANT		PROJECT		TITLE		PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION			
Rev	Date	Description	Verified	Rev	Date	Description	Verified	LOT 1 & 2 ON SP239500				ENERGEX		N/A		Level 1, 100 Brunswick Street, Fortitude Valley, QLD 4006 Australia +61 (07) 3257 4890 general@jhaengineers.com.au www.jhaservices.com		JIMBOOMBA WEST SUBSTATION 14 GLYNTON ROAD, RIVERBEND QLD 4280		HYDRAULIC SERVICES COVER SHEET DRAWING LIST					
A	10.08.26	PRELIMINARY ISSUE	P.J.					OWNER																	
								ENERGEX																	
								TENANT																	
								N/A																	
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A				B				C				D		E		F		G		H		I		J	

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

PERMIT APPLICATION REF: _____
DRAINAGE PLAN No.: _____

DESIGNER: MICHAEL OSSIPOW
QBCC LIC NO: 1070061
SOIL CLASSIFICATION: '1.1'

JIMBOOMBA WEST SUBSTATION

14 GLYNTON RD, RIVERBEND QLD 4280

HYDRAULIC SERVICES

LINETYPE LEGEND

	AMENDMENT
	AUTHORITY GAS MAIN
	AUTHORITY SEWER MAIN
	AUTHORITY STORMWATER MAIN
	AUTHORITY WATER MAIN
	CIVIL SEWER
	CIVIL STORMWATER
	CIVIL WATER
	CAST IN
	CHAMBER VENT
	COLD WATER
	COLD WATER - EXISTING
	COLD WATER FILTERED
	CONDENSATE DRAIN
	CONDENSATE DRAIN - EXISTING
	DISCONNECTED SERVICE
	ELECTRICAL SERVICE
	FIRE HOSE REEL
	FIRE HOSE REEL - EXISTING
	FIRE HYDRANT
	FIRE HYDRANT - EXISTING
	FIRE SERVICE
	FIRE SERVICE - EXISTING
	FIRE SPRINKLER RANGE PIPE
	FIRE SPRINKLER RANGE PIPE - EXISTING
	FIRE TEST DRAIN
	GAS FLUE
	GAS SERVICE
	GAS SERVICE - EXISTING
	HOT WATER FLOW
	HOT WATER FLOW - EXISTING
	HOT WATER RETURN
	HOT WATER RETURN - EXISTING
	INSET BORDER
	NON-POTABLE COLD WATER
	NON-POTABLE COLD WATER - EXISTING
	NON-POTABLE HOT WATER
	NON-POTABLE HOT WATER - EXISTING
	NON-POTABLE HOT WATER RETURN
	RAINWATER RE-USE
	RAINWATER RE-USE - EXISTING
	RECLAIMED WATER
	RECLAIMED WATER - EXISTING
	SANITARY DRAINAGE
	SANITARY DRAINAGE - EXISTING
	SANITARY PLUMBING
	SANITARY PLUMBING - EXISTING
	SANITARY RISING MAIN
	SANITARY RISING MAIN - EXISTING
	STORMWATER CATCHMENT
	STORMWATER DRAINAGE
	STORMWATER DRAINAGE - EXISTING
	STORMWATER RISING MAIN
	STORMWATER RISING MAIN - EXISTING
	SUBSOIL DRAINAGE
	SUBSOIL DRAINAGE - EXISTING
	TRADE WASTE DRAINAGE
	TRADE WASTE DRAINAGE - EXISTING
	TRADE WASTE VENT PIPE
	TRADE WASTE VENT PIPE - EXISTING
	VENT PIPE
	VENT PIPE - EXISTING
	WARM WATER FLOW
	WARM WATER FLOW - EXISTING
	WARM WATER RETURN
	WARM WATER RETURN - EXISTING

SYMBOLS

	RISER
	DROP / RISE
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	PIPEWORK CONTINUATION
	UNDOCUMENTED CONTINUED LINE
	PIPEWORK SECTION
	DIRECTION ARROW
	NEW CONNECTION
	NEXT DRAWING
	DIRECTION OF FLOW
	SERVICE DESCRIPTION
	SERVICE TITLE
	SERVICE SIZE
	DIRECTION OF FLOW
	STOP VALVE
	CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE
	BALL VALVE
	REDUCED PRESSURE ZONE DEVICE
	PRESSURE RELIEF VALVE
	PRESSURE LIMITING VALVE
	SOLENOID VALVE
	DOUBLE CHECK VALVE
	THERMOSTATIC MIXING VALVE
	TEMPERING VALVE
	WATER FILTER
	REFLUX VALVE
	REFLUX VALVE IN PIT
	PATHBOX
	WATER METER
	GAS METER
	STRAINER
	WATER POINT
	TAP SET
	HOSE TAP
	BAYONET POINT
	REGULATOR
	PUMP
	CONTROL PANEL
	FIRE HOSE REEL
	HOT WATER UNIT
	FIRE HYDRANT
	DUAL PILLAR FIRE HYDRANT
	STREET HYDRANT
	DUAL SUCTION POINT
	QUAD SUCTION POINT
	DUAL BOOSTER POINT
	QUAD BOOSTER POINT

SYMBOLS (cont'd)

	INDUCT PIPE MICA FLAP
	KAMLOCK CONNECTION
	AIR ADMITTANCE VALVE
	SYPHONIC OUTLET
	RAINWATER OUTLET
	SPREADER
	OVERLAND FLOW ARROW
	STORMWATER FLOW ARROW
	PENETRATION / CORE HOLE IN SLAB
	BEAM PENETRATION
	REDUCER
	GREASE ARRESTOR
	STORMWATER GRATE
	STORMWATER COVER
	TRENCH GRATE
	REVISION
	KERB ENTRY PIT
	THRUST BLOCK
	P.A.P.A. VALVE
	RAINWATER HEAD
	AUTO AIR ELIMINATION VALVE
	INFRA RED SENSOR
	CONTROL VALVE
	Cold Water Meter
	Disabled
	Disabled Basin
	Double Check Valve
	Double Check Valve Assembly
	Kerb Inlet Pit
	Kilopascal
	Kilowatt
	Litres
	Low Level
	Litres Per Second
	Light Duty
	Liquified Petroleum Gas
	Laboratory Sink
	Laundry Tub
	Loading Units
	Low Voltage
	Metre
	Metres Head
	Metres per Second
	Cubic Metres per Hour
	Medium Density Polyethylene
	Minimum
	Megajoules
	Millimetres
	Mid Steel
	Non-Return Valve
	Not To Scale
	Nylon
	Overflow
	Outside Diameter
	Oblique Junction
	Overflow Relief Gully
	Positive Air Pressure Attenuator
	Planter Drain Outlet
	Cross Linked Polyethylene
	Planimeter Floorwaste Gully
	Pressure Gauge
	Pressure Limiting Valve

NOTE:
THIS IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT
NECESSARILY BE USED IN THESE DRAWINGS.

ABBREVIATIONS

A/C	Air Conditioning
AAV	Air Admittance Valve
AHD	Australian Height Datum
AS	Australian Standards
B	Basin
BALV	Balancing Valve
BBQ	Barbecue
BBV	Brigade Booster Valve
BCA	Building Code Of Australia
BDO	Balcony Drain Outlet
BID	Bidet
BM	Bar Marie
BP	Bayonet Point
BR	Brass
BT	Boundary Trap
BTFWG	Bucket Trap Floorwaste Gully
BTH	Bath
BV	Ball Valve
BWL	Bottom Water Level
Boiling Water Unit	Boiling Water Unit
CHV	Check Valve
CHVP	Chamber Vent Pipe
CHWU	Chilled Water Unit
CI	Cast Iron
CIC	Cast In Column
CICL	Cast Iron Cement Lined
CIS	Cast In Slab
CL	Ceiling Level
COS	Clear Out To Surface
CSK	Cleaners Sink
CST	Condensate Stack
CT	Cook Top
CU	Copper
CV	Control Valve
CWM	Cold Water Meter
D	Disabled
DB	Disabled Basin
DCV	Double Check Valve
DCV-A	Double Check Valve Assembly
DF	Drinking Fountain
DG	Disconnector Gully
DIA	Diameter
DICL	Ductile Iron Cement Lined
DP	Downpipe
DPFH	Dual Pillar Fire Hydrant
DR	Drainage Riser
DTU	Drainage Turn Up
DU	Dental Unit
DWC	Disabled Water Closet
DWG	Drawing
DWM	Dish Washing Machine
e	Existing
ECV	Expansion Control valve
EJ	Expansion Joint
ELEC	Electrical Service
EDP	Elevated Drainage Pipe
EW	Eye Wash
EXT	Extinguisher
F/A	From Above
F/B	From Below
FC	Fume Cupboard
FD	Floor Drain
FFL	Finished Floor Level
FH	Fire Hydrant
FHR	Fire Hose Reel
FHV	Fire Hydrant Valve
FIP	Fire Indicator Panel
FR	Fridge
FRS	Fibre Reinforced Concrete
FRS	Flushing Rim Sink
FSL	Finished Surface Level
FSR	Fire Sprinkler Range

ABBREVIATIONS (cont'd)

FTD	Fire Test Drain
FU	Fixture Units
FV	Flush Valve
FW	Floorwaste (Untrapped)
FWG	Floorwaste Gully (Trapped)
GA	Grease Arrestor
GAL	Galvanised
GD	Grated Drain
GDO	Grated Drain Outlet
GDTU	Grease Drainage Turn Up
GIT	Grease Interceptor Trap
GL	Ground Level
GM	Gas Meter
GMS	Galvanised Mild Steel
GO	Gutter Outlet
GR	Gas Regulator
GST	Grease Stack
GT	Grease Trap
GTU	Grease Turn Up
GTVP	Grease Trap Vent Pipe
GV	Gate Valve
GWM	Glass Washing Machine
GWST	Grease Waste Stack
HL	High Level
HD	Heavy Duty
HDPE	High Density Polyethylene
HP	High Point
HT	Hose Tap
HV	High Voltage
HWM	Hot Water Meter
HWU	Hot Water Unit
ID	Inside Diameter
IL	Invert Level
IM	Ice Machine
IO	Inspection Opening
IS	Inspection Shaft
IV	Isolation Valve
JU	Jump Up
KIP	Kerb Inlet Pit
KPA	Kilopascal
KW	Kilowatt
L	Litres
L/L	Low Level
L/S	Litres Per Second
LD	Light Duty
LPG	Liquified Petroleum Gas
LSK	Laboratory Sink
LT	Laundry Tub
LU	Loading Units
LV	Low Voltage
M	Metre
M-HEAD	Metres Head
M/S	Metres per Second
M3HR	Cubic Metres per Hour
MDPE	Medium Density Polyethylene
MIN	Minimum
MJ	Megajoules
MM	Millimetres
MS	Mid Steel
NRV	Non-Return Valve
NTS	Not To Scale
NY	Nylon
O/F	Overflow
OD	Outside Diameter
OJ	Oblique Junction
ORG	Overflow Relief Gully
PAPA	Positive Air Pressure Attenuator
PDO	Planter Drain Outlet
PEX	Cross Linked Polyethylene
PFWG	Planimeter Floorwaste Gully
PG	Pressure Gauge
PLV	Pressure Limiting Valve

ABBREVIATIONS (cont'd)

PM	Post Mix
PRV	Pressure Relief Valve
PS	Pen Sanitiser
PSK	Pot Sink
PVC	Polyvinyl Chloride
RCP	Reinforced Concrete Pipe
RHS	Rectangular Hollow Section
RL	Reduced Level
RPZD	Reduced Pressure Zone Device
RV	Reflux Valve
RVP	Relief Vent Pipe
RWH	Rain Water Head
RWD	Rainwater Outlet
S/S	Stainless Steel
S/TR	Safe Tray
SB	Surgeons Basin
SDO	Spoon Drain Outlet
SH	Stop Hopper
SHR	Shower
SIP	Sewer Inspection Pit
SK	Sink
SL	Surface Level
SMH	Sewer Manhole
SO	Syphonic Outlet
SOF	Syphonic Overflow
SPD	Spreader
SPR	Sprinkler
SQ	Square
SSHR	Safety Shower
SSL	Structural Slab Level
SST	Soil Stack
ST	Stack
STD	Sprinkler Test Drain
STER	Steriliser
SV	Stop Valve
SWIP	Stormwater Inspection Pit
SWMH	Stormwater Manhole
SWP	Stormwater Pit
SWS	Stormwater Sump
SYP	Syphonic
TA	Test Access
T/A	To Above
T/B	To Below
TB	Thrust Block
TBR	To Be Removed
TD	Tundish
TEL	Telecommunication Service
TG	Trench Grate
TLV	Temperature Limiting Valve
TMV	Thermostatic Mixing Valve
TRV	Temperature & Pressure Relief Valve
TTO	Trapped Tundish
TWP	Trade Waste Inspection Pit
TWL	Top Water Level
TWST	Trade Waste Stack
TWTU	Tradewaste Turn Up
TWVP	Tradewaste Vent Pipe
TYP	Typical
UIS	Underside
UNO	Unless Noted Otherwise
UPVC	Unplasticised Polyvinyl Chloride
UR	Urinal
UV	Ultra Violet
VB	Vacuum Breaker
VCP	Vertified Clay Pipe
VP	Vent Pipe
WC	Water Closet
WL	Water Level
WM	Washing Machine (Clothes)
WST	Waste Stack
WT	Wash Trough

AUTHORITY
APPROVAL
STAMPS



LOCALITY PLAN
NOT TO SCALE

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS				REAL PROPERTY DESCRIPTION		CLIENT		ARCHITECT		CONSULTANT		PROJECT		TITLE		PRELIMINARY ISSUE	
Rev	Date	Description	Verified	Rev	Date	Description	Verified	LOT 1 & 2 ON SP239500		ENERGEX		N/A		 Level 1, 101 Brunswick Street, Fortitude Valley, QLD 4006 Australia +61 (07) 3257 4890 general@jhaengineers.com.au www.jhaservices.com		JIMBOOMBA WEST SUBSTATION 14 GLYNTON ROAD, RIVERBEND QLD 4280		HYDRAULIC SERVICES LEGEND OF SYMBOLS, ABBREVIATIONS & LOCALITY PLAN		NOT TO BE USED FOR CONSTRUCTION	
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								N/A												Q260202 H0001 A	

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SECTION 1 - GENERAL REQUIREMENTS

1.01 DEFINITIONS

- DRAWINGS - HYDRAULIC SERVICES, ARCHITECTURAL, CIVIL, STRUCTURAL, ELECTRICAL AND OTHER SERVICES
- DRAWINGS ASSOCIATED TO AND WITH THIS PROJECT.
- LOCAL AUTHORITY - THE RELEVANT AUTHORITY HAVING JURISDICTION OVER THESE WORKS.
- PROVIDE - THE COMPLETE SUPPLY, INSTALLATION, TESTING, COMMISSIONING, SERVICE AND CERTIFY ALL MATERIALS AND COMPONENTS REQUIRED FOR THE PROJECT.
- SUPERINTENDENT - THE CLIENTS REPRESENTATIVE ON SITE.
- MAIN CONTRACTOR - THE BUILDER OVER SEEING THE ENTIRE WORKS.
- INTERPRETATION UNLESS THE CONTEXT OTHERWISE REQUIRES, THE FOLLOWING DEFINITIONS APPLY:
 - SUPPLY, "SUPPLY", "FURNISH" AND SIMILAR EXPRESSIONS MEAN "SUPPLY ONLY".
 - PROVIDE, "PROVIDE" AND SIMILAR EXPRESSIONS MEAN "SUPPLY AND INSTALL".
 - APPROVED, "APPROVED", "REVIEWED", "DIRECTED", "REJECTED", "ENDORSED" AND SIMILAR EXPRESSIONS MEAN "APPROVED, REVIEWED, DIRECTED, REJECTED, ENDORSED" IN WRITING BY THE CONTRACT ADMINISTRATOR".
 - "CONSULTANT" SHALL MEAN JHA CONSULTING ENGINEERS.

1.02 GENERAL

1.02.01 ALL WORK SHALL BE CARRIED OUT BY AND UNDER THE SUPERVISION OF A LICENSED PLUMBER IN STRICT CONFORMITY WITH THE ARCHITECTURAL PLANS, HYDRAULIC SERVICES DRAWINGS AND SPECIFICATIONS.

1.02.02 ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF RELEVANT CODES INCLUDING BUT NOT LIMITED TO:

- NATIONAL CONSTRUCTION CODE OF AUSTRALIA (NCC)
- LOCAL COUNCIL REQUIREMENTS.
- LOCAL WATER AND SEWER AUTHORITIES' REQUIREMENTS.
- SEWER AND WATER CODES OF AUSTRALIA.
- AS 3500 SERIES - 2021 - PLUMBING AND DRAINAGE.
- AS 1345-1985 - IDENTIFICATION OF THE CONTENTS OF PIPE.
- AS 1428-2010 - DESIGN FOR ACCESS AND MOBILITY.
- QLD BUILDING ACT 1975.
- QLD PLUMBING & DRAINAGE REGULATION 2019.
- QLD PLUMBING & DRAINAGE ACT 2018.
- QLD PLUMBING & WASTEWATER CODE V1 2019.
- OTHER RELEVANT CODES AND AUSTRALIAN STANDARDS NOT LISTED ABOVE.

1.02.03 ALL WORK SHALL BE CARRIED OUT TO THE SATISFACTION OF THE SUPERINTENDENT.

1.02.04 PROVIDE - ALL MANUFACTURE BROCHURES, SERVICE INFORMATION WARRANTIES, COMMISSIONING TEST RESULTS AND COMPLIANCE CERTIFICATES.

1.03 SCOPE OF WORKS

1.03.01 ALLOW TO PROVIDE ALL MATERIALS AND LABOUR NECESSARY TO PROVIDE A COMPLETE, WORKING AND SERVICEABLE INSTALLATION BASED ON THE DRAWINGS, SPECIFICATION, ARCHITECTURAL, DOCUMENTS, RELEVANT CODES AND AUSTRALIAN STANDARDS.

1.03.02 THE HYDRAULICS CONTRACTOR IS TO VISIT THE SITE PRIOR TO SUBMISSION OF THE QUOTATION, ALL QUERIES AND WHERE THERE IS AMBIGUITY IN THE TENDER DRAWINGS, THE HYDRAULICS CONTRACTOR IS TO BRING THIS TO THE ATTENTION OF THE CONSULTANT BEFORE THE CLOSE OF TENDER. NO ADDITIONAL COST WILL BE APPROVED THOUGH FAILURE OF THE CONTRACTOR TO INSPECT THE SITE.

1.03.03 EXISTING SERVICES INDICATED ON THESE DRAWING ARE OF APPROXIMATE LOCATIONS ONLY. HYDRAULIC CONTRACTOR RESPONSIBLE TO CONFIRM LOCATION OF THESE EXISTING SERVICES AND COORDINATE EXISTING WITH NEW SERVICES BEFORE COMMENCEMENT OF WORKS ON SITE.

1.03.04 HYDRAULIC CONTRACTOR TO ALLOW TO CHECK ALL INVERT LEVELS, PIPE COVER, PIPE LOCATION PRIOR TO COMMENCING ANY WORKS ON SITE. HYDRAULIC CONTRACTOR THEN SHALL CONFIRM INSTALLATIONS WITH THE INFORMATION COLLECTED ON SITE IN RELATION WITH THE DESIGN.

1.03.05 ANY CONCERNS MUST BE SUBMITTED TO THE SUPERINTENDENT AS SOON AS POSSIBLE WITH POSSIBLE SOLUTION IN FORM OF WRITTEN APPLICATION OF SKETCHES (SKETCHES MUST HAVE LEVELS TO INDICATE EVIDENCE OF CO-ORDINATION ON SITE).

1.03.06 ALLOW TO PROVIDE AND INSTALL THE HYDRAULIC SERVICES SHOWN ON THESE DRAWINGS. ALLOW TO COORDINATE WITH OTHER SERVICES, BUILDERS SCHEDULE AND OPERATION REQUIREMENTS BEFORE COMMENCING WORK ON SITE. CONTRACTOR MUST CONFIRM ALL PIPE SIZES INDICATED ON THESE DRAWINGS. IF PIPE SIZES ARE INCORRECT ITS THE HYDRAULIC CONTRACTORS RESPONSIBILITY TO LOCATE THE CORRECT SIZE PIPEWORK AND MAKE ALLOWANCES TO CONNECT TO THESE SERVICES. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND EXTEND ALL SERVICES FROM EXISTING TO NEW FIXTURES.

1.03.07 PRIOR TO COMMENCING AND EXCAVATION WORK, CONTACT DIAL BEFORE YOU DIG, TO OBTAIN ALL AVAILABLE INFORMATION ON EXISTING AUTHORITIES SERVICES AND MAKE EVERY EFFORT TO AVOID DISTURBING THESE SERVICES.

1.03.08 CONFIRM LOCATION AND SIZE OF ALL SERVICES REQUIRED FOR USE BY OTHER TRADES. THIS INCLUDES BUT NOT LIMITED TO:

- DRAINAGE POINTS AND WATER SUPPLY POINTS.
- EXAMPLE OF MAIN CONTRACTOR - IRRIGATION CONTRACTOR - SPARE ALLOWANCES SHALL BE ALLOWED IN LINE WITH THE ADDITIONAL CAPACITY TABLE.

1.03.09 THE CONTRACTOR SHALL ALLOW TO PROVIDE FOR ALL REQUIRED ACCESS, EQUIPMENT, LADDERS, SCAFFOLD AND THE LIKE TO COMPLETE AND SERVICE THE PROJECT.

1.03.10 THE HYDRAULIC CONTRACTOR TO PROVIDE TENDER PRICES AND BREAKDOWN TO SUPERINTENDENT AND CONSULTANT.

1.04 DEMOLITION

1.04.01 ALLOW FOR THE DISCONNECTION AND REMOVAL OF ALL REDUNDANT FIXTURES AND ASSOCIATED PIPEWORK AS REQUIRED BY THE CONTRACT WORKS. ALLOW TO CUT & SEAL ALL REDUNDANT HYDRAULIC PIPING AT POINT OF ORIGIN.

1.04.02 ALL DEMOLITION WORKS SHALL BE CARRIED OUT IN A WORKMANLIKE MANNER TO SUIT THE REQUIREMENT OF ALL CODES, REGULATIONS AND OHS REQUIREMENTS

1.04.03 COORDINATE DEMOLITION / DISCONNECTION / RELOCATION OF SERVICES TO ENSURE MINIMAL DISRUPTION OCCURS.

1.04.04 CUT AND SEAL EXISTING DISUSED AND REDUNDANT WATER SUPPLIES IN AN WATER TIGHT MANNER AS REQUIRED BY AUTHORITY AND AS INDICATED ON HYDRAULIC DRAWINGS. PLUG ALL PIPE ENDS AND CARRY ALL WORKS DOWNSTREAM OF ISOLATION VALVES THAT SHALL REMAIN IN PLACE FOR FUTURE EXTENSION.

1.04.05 WHEN SEALING EXISTING WASTES AND VENTS, CUT AND SEAL THE DISUSED PIPE AT STACK OR RELIEF VENT BRANCH LEAVING A SEALED WASTES OR VENT FOR FUTURE CONNECTION.

1.04.06 ENSURE THE CONTINUOUS OPERATION OF EXISTING HYDRAULIC SERVICES TO SERVICE OTHER FLOORS AND AREAS DURING THE DEMOLITION AND CONSTRUCTION STAGES OF WORKS.

1.04.07 ANY EXISTING HYDRAULIC SERVICES THAT ARE ALTERED/REMOVED OUTSIDE THE SPECIFIED SCOPE SHALL BE REINSTATED BY THE HYDRAULIC CONTRACTOR AT THEIR EXPENSE.

1.04.08 THE CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DECOMMISSIONED AND REMOVED WITH THE CLIENTS APPROVED REPRESENTATIVE PRIOR TO ANY DEMOLITION WORK TAKING PLACE.

1.04.09 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS FOR BUILDING DEMOLITION STAGES OF WORKS.

1.04.10 ALL REDUNDANT PIPE WORK SHALL BE REMOVED FROM SITE.

1.04.11 SANITARY PLUMBING, DRAINAGE AND VENTS TO BE CAPPED USING PROPRIETARY FITTINGS.

1.04.12 CAP REDUNDANT WATER SERVICES BACK TO BRANCH TO ELIMINATE DEADLEGS IN PIPEWORK.

1.05 DIMENSIONS

THESE DRAWINGS ARE INDICATIVE ONLY. ALL DIMENSIONS MUST BE CONFIRMED ON SITE AND WITH CURRENT ARCHITECTURAL DRAWING, TEMPLATES AND DETAILS BEFORE ANY SITE WORK OR OFF-SITE FABRICATION TAKEN PLACE.

1.06 MATERIALS

1.06.01 ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK AND AUSTRALIAN WATERMARK APPROVAL.

1.06.02 EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE ALL SERVICES SHALL BE FREE OF EACH OTHER AND EASILY REPLACEABLE FOR THEIR FULL LENGTH.

1.06.03 WHERE POSSIBLE PIPES SHALL BE RUN PARALLEL WITH WALLS AND SLABS AND WITH EACH OTHER, MINIMISE CROSSOVERS AND UNSIGHTLY GROUPINGS. ALL PIPE WORK SHALL BE ACCURATELY SET OUT AND FULLY COORDINATED WITH OTHER SERVICES PRIOR TO COMMENCING OR FABRICATING AND INSTALLING ON SITE.

1.06.04 DURING EARLY WORK AND CONSTRUCTION LEAVE ALL UNFINISHED WORK IN A SAFE CONDITION, PROTECTING THE WORKS AGAINST DAMAGE OR LOSS THROUGH ANY CAUSE WHAT SO EVER. SEAL OFF OPEN-END PIPE WORK IN SUCH A MANNER AS TO PREVENT ENTRY OF FOREIGN MATTER INTO PIPE WORK. UNTIL WORK HAS BEEN COMPLETED OR HANDED OVER ON COMPLETION.

1.07 FEES AND PERMITS

1.07.01 TENDERS SHALL MAKE ALL APPLICATIONS TO THE WATER, SEWER AUTHORITIES AND LOCAL COUNCIL.

1.07.02 TENDERS SHALL PAY ALL NECESSARY FEES AND CHARGES AND OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, APPROVALS AND CERTIFICATION REQUIRED FOR ALL WORKS ACCORDING WITH AND TO THE INSTALLATION.

1.07.03 ALLOW TO SUBMIT ALL APPROVAL AND CERTIFICATION TO THE SUPERINTENDENT.

1.07.04 THE HYDRAULIC CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL REQUIRED AUTHORITY APPLICATIONS AND ALL ASSOCIATED FEES AND CHARGES WHICH INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING.

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SECTION 2 - SERVICES IN GENERAL

2.01 CONCEALED WORK

2.01.01 ENCLOSED WORK SHALL NOT BE COVERED OR CONCEALED FROM VIEW UNTIL IT HAS BEEN TESTED AND INSPECTED BY THE RESPECTIVE AUTHORITIES' INSPECTORS AND HAS BEEN APPROVED FOR CONCEALMENT BY THE SUPERINTENDENT.

2.01.02 NO WATER SERVICE PIPEWORK SHALL BE CONCEALED IN CONCRETE SLABS, WHERE PIPEWORK PASSES BELOW CONCRETE SLABS ON GROUND, IT SHALL BE IN ACCORDANCE WITH AS3500.1 CLAUSE 5.4.4.

2.02 PIPEWORK AND FITTINGS

2.02.01 ALLOW FOR ALL NECESSARY CHANGES IN PIPE RUNS TO SUIT THE FINALISED LAYOUT OF FIXTURES AND THE LIKE. PIPEWORK SHALL BE HIDDEN FROM VIEW BY INSTALLATION IN WALLS, CEILINGS OR BURYING IN GROUND, WHERE PIPEWORK CANNOT BE HIDDEN FROM VIEW, OBTAIN THE APPROVAL OF THE SUPERINTENDENT PRIOR TO INSTALLATION.

2.02.02 ALL INTERNAL EXPOSED PIPEWORK INCLUDING TAPS SHALL BE CHROME PLATED. PROVIDE CHROME PLATED COVER PLATES WHERE PIPES PASS THROUGH WALLS. MAKE ALLOWANCES FOR EXPANSION AND CONTRACTION IN PIPEWORK. COMPRESSION FITTINGS ARE NOT PERMITTED.

2.03 ACCESS AND CUTOUTS

2.03.01 ACCESS CUT-OUTS TO KITCHEN EQUIPMENT FOR TAP TESTS, HOT WATER UNITS, COMBINED BOILING AND CHILLED WATER UNITS, UNDERSINK PUMP UNITS, CLAY PLASTER TRAPS OR ISOLATION VALVES ARE TO BE MADE BY THE JOINERY CONTRACTOR. COORDINATE ACCESS REQUIREMENTS WITH JOINERY CONTRACTOR PRIOR TO INSTALLATION.

2.03.02 ACCESS-OUTS TO KITCHEN, BASINS WALL FOR FIXTURE AND FITTING EQUIPMENT ARE TO BE MADE BY THE JOINERY CONTRACTOR, OR BUILDER SUBCONTRACTOR. COORDINATE ACCESS REQUIREMENTS WITH JOINERY AND BUILDER SUBCONTRACTOR PRIOR TO INSTALLATION.

2.04 PIPEWORK THROUGH FIRE RATED STRUCTURE

WHERE PLASTIC SLEEVES AND PIPEWORK PASS THROUGH STRUCTURE WHICH IS TO BE FIRE RATED, PROVIDE APPROVED FIRE COLLARS. WHERE METAL PIPEWORK PASSES THROUGH STRUCTURE WHICH IS TO BE FIRE RATED, MINIMISE PENETRATION SIZE AND PACK AROUND PIPEWORK WITH APPROVED INTUMESCENT SEALANT.

2.05 PIPEWORK CHASED IN WALLS

WHERE PIPEWORK IS TO BE CHASED IN WALLS, CUT ALL CHASES WITH A MECHANICAL SAW. DO NOT CHASE STRUCTURAL MEMBERS UNLESS PRIOR APPROVAL IN WRITING IS OBTAINED FROM THE SUPERINTENDENT. PIPEWORK CHASED IN WALLS IS TO BE LAGGED WITH KEMLAG OR OTHER EQUIVALENT MATERIAL.

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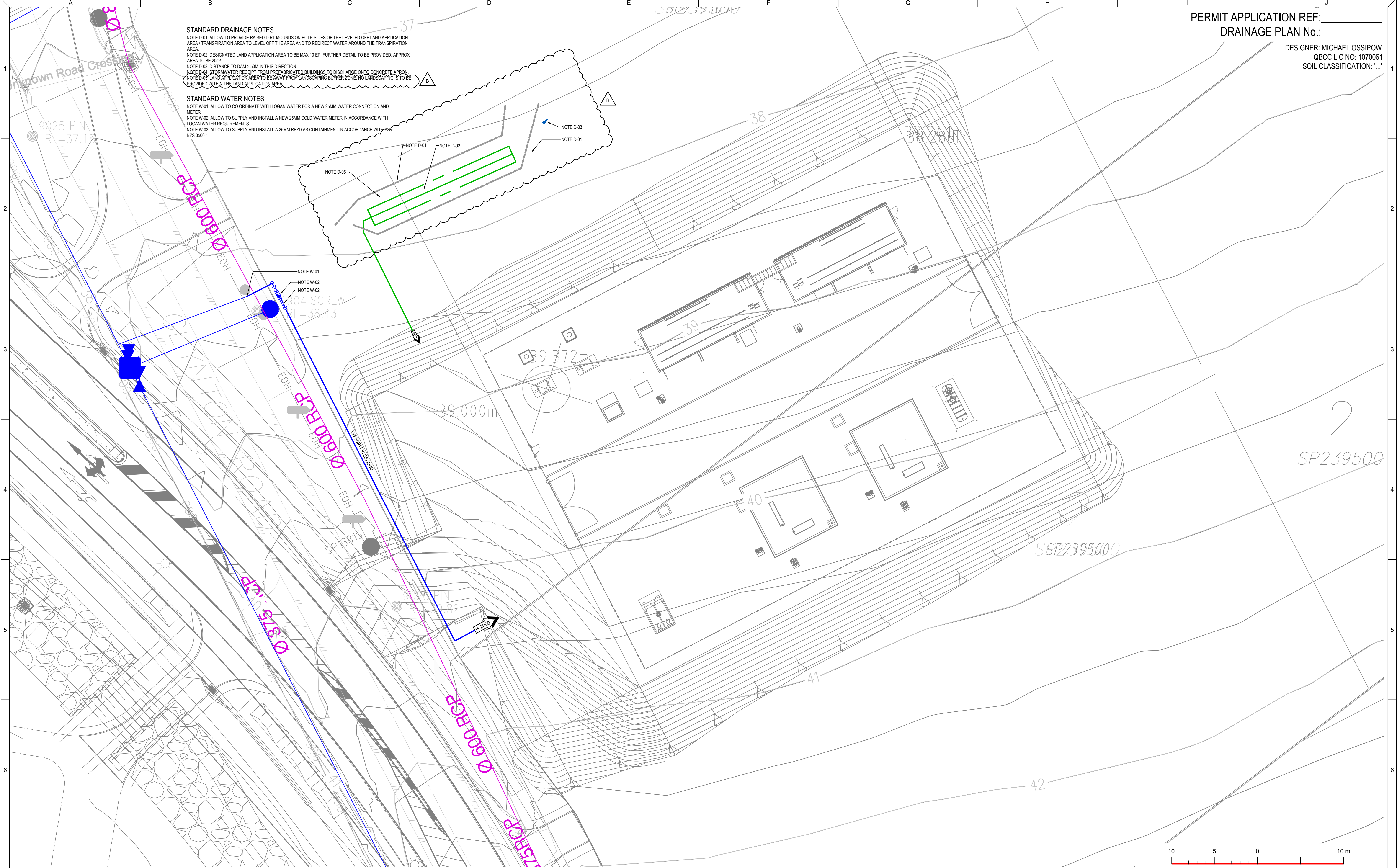
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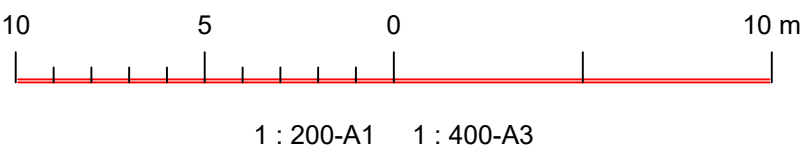


STANDARD DRAINAGE NOTES
NOTE D-01: ALLOW TO PROVIDE RAISED DIRT MOUNDS ON BOTH SIDES OF THE LEVELED OFF LAND APPLICATION AREA/ TRANSPORTATION AREA TO LEVEL OFF THE AREA AND TO REDIRECT WATER AROUND THE TRANSPORTATION AREA.
NOTE D-02: DESIGNATED LAND APPLICATION AREA TO BE MAX 10 EP, FURTHER DETAIL TO BE PROVIDED. APPROX AREA TO BE 20M².
NOTE D-03: DISTANCE TO DAM > 50M IN THIS DIRECTION.
NOTE D-04: STORMWATER RECEIPT FROM PREFABRICATED BUILDINGS TO DISCHARGE ONTO CONCRETE APRON.
NOTE D-05: LAND APPLICATION AREA TO BE AWAY FROM LANDSCAPING BUFFER ZONE. NO LANDSCAPING IS TO BE PROVIDED WITHIN THE LAND APPLICATION AREA.

STANDARD WATER NOTES
NOTE W-01: ALLOW TO CO ORDINATE WITH LOGAN WATER FOR A NEW 25MM WATER CONNECTION AND METER.
NOTE W-02: ALLOW TO SUPPLY AND INSTALL A NEW 25MM COLD WATER METER IN ACCORDANCE WITH LOGAN WATER REQUIREMENTS.
NOTE W-03: ALLOW TO SUPPLY AND INSTALL A 25MM RP2D AS CONTAINMENT IN ACCORDANCE WITH NZS 3500.1.

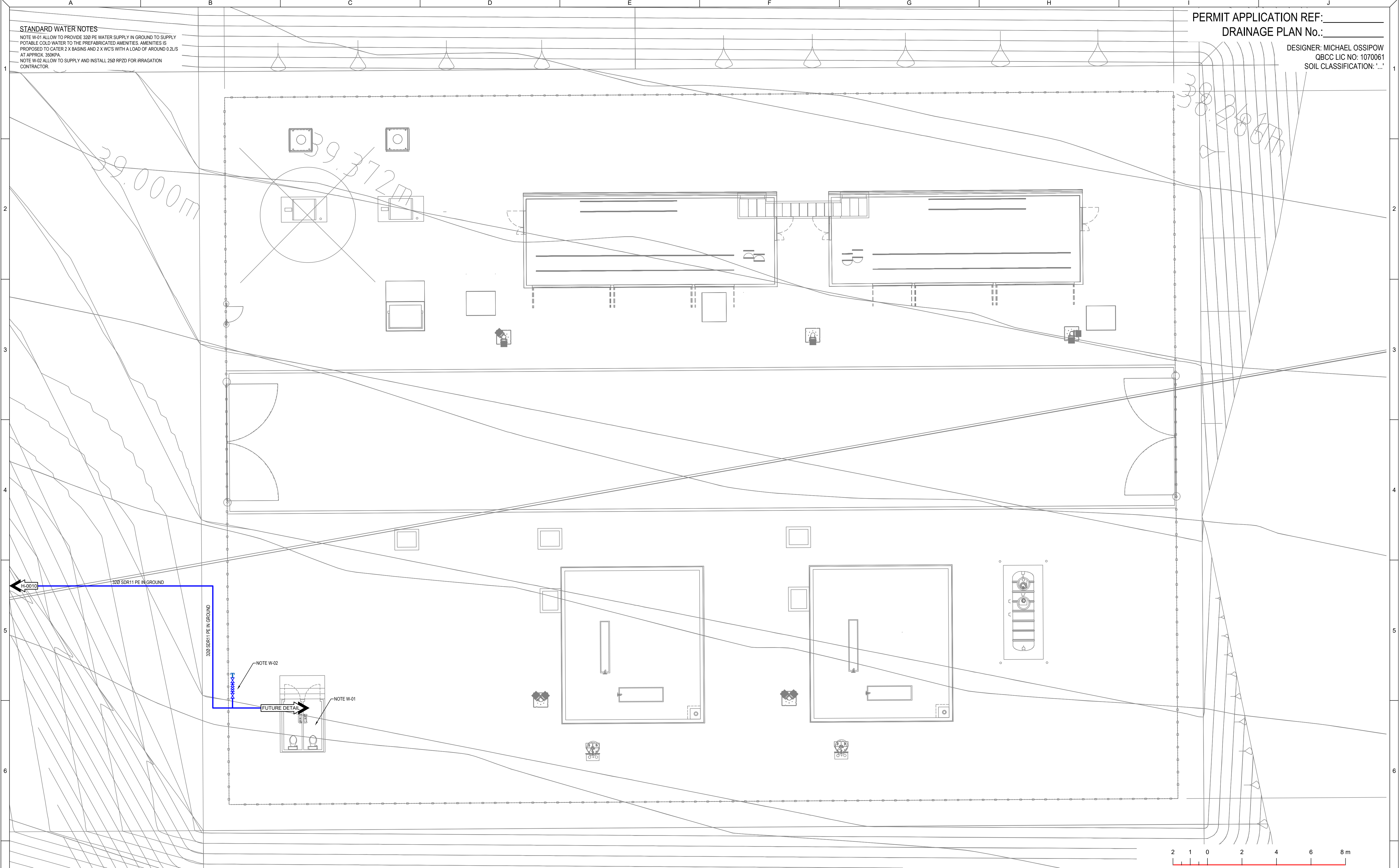
PERMIT APPLICATION REF: _____
DRAINAGE PLAN No.: _____

DESIGNER: MICHAEL OSSIPOW
QBCC LIC NO: 1070061
SOIL CLASSIFICATION: ...



REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS				REAL PROPERTY DESCRIPTION		CLIENT		ARCHITECT		CONSULTANT		PROJECT		TITLE		PRELIMINARY ISSUE		
Rev	Date	Description	Verified	Rev	Date	Description	Verified	LOT 1 & 2 ON SP239500		ENERGEX		N/A				JIMBOOMBA WEST SUBSTATION		HYDRAULIC SERVICES SITE PLAN		NOT TO BE USED FOR CONSTRUCTION		
A	10.08.26	PRELIMINARY ISSUE	P.J.					OWNER								14 GLYNTON ROAD, RIVERBEND QLD 4280				SCALE @ A1		
B	14.08.26	PRELIMINARY ISSUE	P.J.					ENERGEX												1:200		
								TENANT												AUG 2026		
								N/A												JOB No.		
																				DRAWING No.		
																				REV		
																				Q260202		
																				H0010		
																				B		

Aug 10, 2026 - 11:56am P:\JOB No\2026 NEW PROJECTS\Q260202 Jimboomba West Substation\BIM\Hydraulics\Main Works (A1 Horizontal)\Sheets\Q260202-H1000.dwg



PERMIT APPLICATION REF: _____
DRAINAGE PLAN No.: _____
DESIGNER: MICHAEL OSSIPOV
QBCC LIC NO: 1070061
SOIL CLASSIFICATION: '...'

STANDARD WATER NOTES
NOTE W-01 ALLOW TO PROVIDE 320 PE WATER SUPPLY IN GROUND TO SUPPLY
POTABLE COLD WATER TO THE PREFABRICATED AMENITIES. AMENITIES IS
PROPOSED TO CATER 2 X BASINS AND 2 X WCs WITH A LOAD OF AROUND 0.2US
AT APPROX. 350KPA.
NOTE W-02 ALLOW TO SUPPLY AND INSTALL 250 RPZD FOR IRRIGATION
CONTRACTOR.

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS				REAL PROPERTY DESCRIPTION		CLIENT	ARCHITECT	CONSULTANT	PROJECT	TITLE		PRELIMINARY ISSUE									
Rev	Date	Description	Verified	Rev	Date	Description	Verified	LOT 1 & 2 ON SP239500		ENERGEX	N/A	 Level 1, 101 Brunswick Street, Fortitude Valley, QLD 4006 Australia +61 (07) 3257 4890 general@haengineers.com.au www.haengineers.com	JIMBOOMBA WEST SUBSTATION 14 GLYNTON ROAD, RIVERBEND QLD 4280	HYDRAULIC SERVICES FLOOR PLAN WATER SERVICES		NOT TO BE USED FOR CONSTRUCTION									
A	10.08.26	PRELIMINARY ISSUE	P.J.					OWNER																	
								TENANT																	
								N/A																	