

14 EASTRIDGE STREET, STAPYLTON QLD

PROPOSED MULTI-UNIT DEVELOPMENT

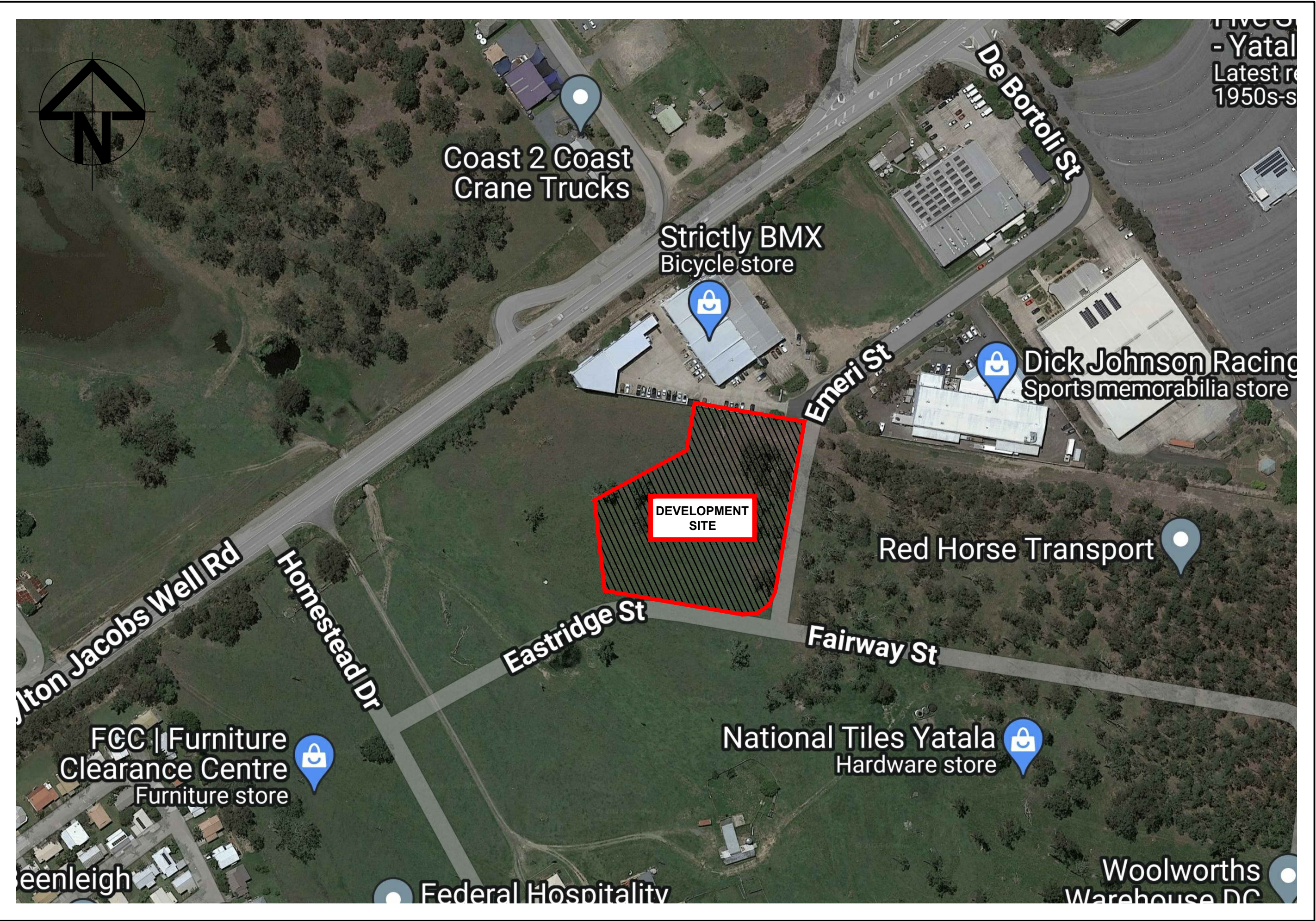
CIVIL ENGINEERING WORKS FOR CONSTRUCTION

GENERAL NOTES - SEWER

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORKS SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE CONSTRUCTION OF THE SEWERAGE WORKS SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THESEQ SERVICE PROVIDER SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BYTHE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN110 PE (OR DN100 PVC) PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THEN SINGLE RESIDENTIAL, A DN160PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN ON THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THEN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ CODE.
- BENCHMARK AND LEVELS TO AHD.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS & CONSTRUCTION DRAWING FOR CO-ORDINATION.

DISCLAIMER

- ALL INFRASTRUCTURE INFORMATION (MAINS, PIPES ETC.) IS DERIVED FROM COUNCIL'S "AS CONSTRUCTED" RECORDS. EVERY EFFORT WAS MADE TO ENSURE ACCURACY OF THESE RECORDS WHEN COMPLIED.
- NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.
- USERS OF THE INFORMATION IN THIS DRAWING DESIGN SHOULD TAKE ALL REASONABLE STEPS TO VERIFY THE RELEVANT INFORMATION BEFORE COMMENCING EXCAVATING OR CONSTRUCTION WORK.
- IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT 'BEFORE YOU DIG AUSTRALIA' PH.1100 FOR THE LOCATION OF EXISTING PUBLIC UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE CAUSED TO EXISTING PUBLIC UTILITIES BY THE CONTRACTOR WILL BE REPAIRED BY THE CONTRACTOR WILL BE REPAIRED BY THE RELEVANT AUTHORITY AT THE CONTRACTORS EXPENSE.
- TELFORD CIVIL DESIGN & CONSTRUCTION EXCELLENCE** TAKE NO RESPONSIBILITY FOR APPARENT ERRORS OR INACCURACIES IN THE INFORMATION PROVIDED.



LOCALITY PLAN

N.T.S.

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT 'BEFORE YOU DIG AUSTRALIA' PH.1100 FOR THE LOCATION OF EXISTING PUBLIC UTILITIES PRIOR TO EXCAVATION. ANY DAMAGE CAUSED TO EXISTING PUBLIC UTILITIES BY THE CONTRACTOR WILL BE REPAIRED BY THE RELEVANT AUTHORITY AT THE CONTRACTORS EXPENSE.

THIS DESIGN HAS BEEN PREPARED BASED ON SERVICE AUTHORITY AS CONSTRUCTED INFORMATION. NO POT HOLING HAS BEEN UNDERTAKEN TO VERIFY EXISTING SERVICE LOCATIONS AND DEPTHS. IT IS THE CONTRACTORS RESPONSIBILITY TO UNDERTAKE POT HOLING TO VERIFY THE DESIGN.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS & CONSTRUCTION DRAWING FOR CO-ORDINATION.

ALL ENVIRONMENTAL PROTECTION MEASURES SHOULD BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING, COMMENCING.

NAME OF ESTATE		14 EASTRIDGE STREET, STAPYLTON QLD
CLIENT		-----
No. OF ALLOTS.		-
AREA IN ha.		6.224m ²
LENGTH OF SEWER	100	-
	150	2.1m
	225	-

SEWER WORKS NOTES - ENDORSED CONSULTANT

- ENDORSED CONSULTANT:**
 - THE ENDORSED CONSULTANT FOR THIS PROJECT IS AUSTRALIAN CONSULTING ENGINEERS PTY LTD.
- CONTRACTOR:**
 - THE LIVE WORKS DETAILED ON THIS PLAN MUST BE CARRIED OUT BY A PRIVATE CONTRACTOR UNDER GOLD COAST WATER SUPERVISION;
 - THE CONTRACTOR SHALL APPLY TO GOLD COAST WATER FOR ALL CONNECTION AND DISCONNECTION AND OBTAIN WRITTEN APPROVAL (1300 694 222);
 - IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ENDORSED WATER AND SEWER CONSULTANT IDENTIFIED ON THIS PLAN TO ARRANGE INSPECTION OF THE WORKS AT ALL SPECIFIED HOLD POINTS;
 - IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL CERTIFICATION DOCUMENTATION REQUIRED BY THE ENDORSED WATER AND SEWER CONSULTANT IDENTIFIED ON THIS PLAN;
 - IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN RELEVANT PERMITS FROM AUTHORITIES TO WORK WITHIN ROADS AND FOOTPATHS;
 - DEVELOPMENT AND REGULATORY SERVICES ARE REQUIRED TO SCRUTINISE AND APPROVE ALL PERMITS. IF APPROVED - PAYMENT OF A FEE MAY BE APPLICABLE;
 - ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION;
- INSPECTION REQUIREMENTS:**
 - THE CONTRACTOR SHALL CONFIRM THE REQUIRED CONSTRUCTION INSPECTIONS WITH THE ENDORSED CONSULTANT PRIOR TO CONSTRUCTION. INSPECTIONS GENERALLY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:
 - PRE-START MEETING;
 - INSPECTION OF SEWER/WATER LINE PRIOR TO BACKFILLING OF TRENCH
 - LIVE WORKS INSPECTION (CONTRACTOR TO INFORM GOLD COAST WATERS OF WHEN LIVEWORKS SHALL OCCUR)
 - ON-MAINTENANCE INSPECTION;
 - OFF-MAINTENANCE INSPECTION;
- PRE-START REQUIREMENTS:**
 - THE CONTRACTOR MUST ENSURE THE FOLLOWING ITEMS ARE COMPLETED PRIOR TO THE COMMENCEMENT OF WORKS;
 - CONFIRM WITH THE ENDORSED CONSULTANT THAT THEY HAVE THE MOST CURRENT RPEQ ENDORSED SEWER AND WATER PLANS;
 - CONFIRM THAT ALL NECESSARY AUTHORISATIONS HAVE BEEN OBTAINED FOR THE WORKS (SUCH AS COUNCIL APPROVALS AND ROAD CLOSURES);
 - PERMIT TO WORK APPROVED BY GOLD COAST WATER;

ENVIRONMENTAL CONDITIONS

PLACE ON YOUR DRAWING NOTES AS RECEIVED IN YOUR APPROVAL LETTER FROM THE ENVIRONMENTAL REGULATOR OR MANAGER. IF NOTES RELEVANT TO THIS ESTATE ARE NOT SPECIFIED IN YOUR APPROVAL LETTER, TYPICAL NOTES AS FOLLOWS SHALL BE PLACED ON ALL DRAWINGS.

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES MUST BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHOULD BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHOULD BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND THE STOCKPILES.
- ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS:

CREEK CROSSING

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- NO SOIL SHALL BE STOCKPILED WITHIN 5.0m OF THE CREEK

REHABILITATION

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.



				Certification By Dr. Michel Chasaya B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng., Civil & Structural Engineer RPEQ: 27152	Architect SKYLINE ARCHITECTS 30 Grose Street, Parramatta NSW 2150 P: 0420 224 488 E: info@skylinearchitects.com.au	Council	Scale	TELFORD CIVIL DESIGN & CONSTRUCTION EXCELLENCE Level 14, 32 Smith Street, Parramatta NSW 2150 PO BOX 3579 Parramatta 2124 Email : info@telfordcivil.com.au Phone : 02 7809 4931 Company : Telford Consulting Pty Ltd	Project 14 EASTRIDGE STREET, STAPYLTON QLD PROPOSED WAREHOUSE CIVIL ENGINEERING PLANS FOR CONSTRUCTION	Drawing Title SEWER CONNECTION LAYOUT PLAN DETAILS AND NOTES
B	ISSUE FOR OPERATIONAL WORKS			28/05/2024	J.E.H.	J.A.B.				
A	ISSUE FOR OPERATIONAL WORKS			02/04/2024	J.E.H.	J.A.B.				
Issue	Description	Date	Design	Checked						
1cm at full size				10cm	20cm					
					Scale	A1	Project No.	Dwg. No.	Issue	
					N.T.S.		23337	C500	B	

LEGEND

- LOT BOUNDARY

Ex. K&G

EXISTING KERB & GUTTER

EXSW

EXISTING STORMWATER DRAINAGE

ExW

EXISTING WATER MAIN

ExS

EXISTING SEWER MAIN

INSET A
SCALE 1:50

NOTE:
ALL EXISTING SERVICES TO BE
ADJUSTED TO MATCH
PROPOSED SURFACE LEVELS.

B	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.
A	ISSUE FOR OPERATIONAL WORKS	02/04/2024	J.E.H.	J.A.B.
Issue	Description	Date	Design	Checked
1cm at full size				

Certification By Dr. Michel Chasaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer
RPEQ 27152

Architect
SKYLINE
ARCHITECTS
30 Grose Street, Parramatta
NSW 2150
P: 0420 224 488
E: info@skylinearchitects.com.au

Council

Scale

SCALE 1:50 @ A1
SCALE 1:200 @ A1

TELFORD_{CIVIL}
DESIGN & CONSTRUCTION EXCELLENCE
Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
Email : info@telfordcivil.com.au
Phone : 02 7809 4931
Company : Telford Consulting Pty Ltd

Project
**14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION**

Drawing Title
**SEWER CONNECTION
LAYOUT PLAN**

Scale	A1	Project No.	Dwg. No.	Issue
AS SHOWN		23337	C501	B

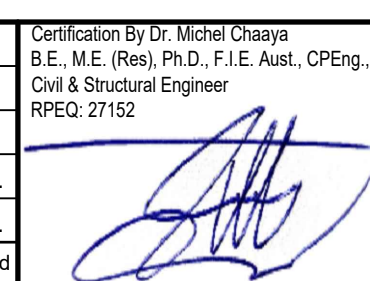
ITEM No.	DESCRIPTION
0	ISOLATION VALVE
1	SERVICE PIPE AND 90° BEND
2	BRANCH OFFTAKE TEE FOR DOMESTIC SERVICE
3	ISOLATION VALVE
4	PIPE (5D)
5	FIRE SERVICE WATER METER
6	PIPE (3D)
7	ISOLATION VALVE
8	BACKFLOW PREVENTION DEVICE
9	SERVICE PIPE
11	ISOLATION VALVE
12	STRAINER
13	WATER METER
14	NON RETURN VALVE
15	TEE & TESTING PORT
16	CUSTOMER ISOLATION VALVE
17	SERVICE PIPE AND 90° BEND



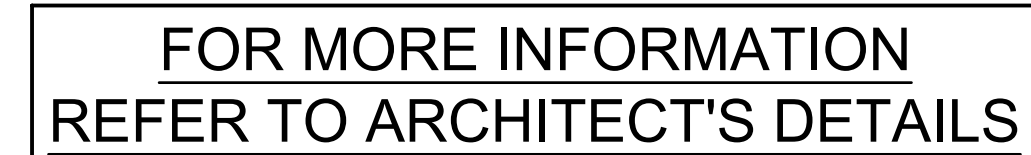
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NOTE:
ALL EXISTING SERVICES TO BE
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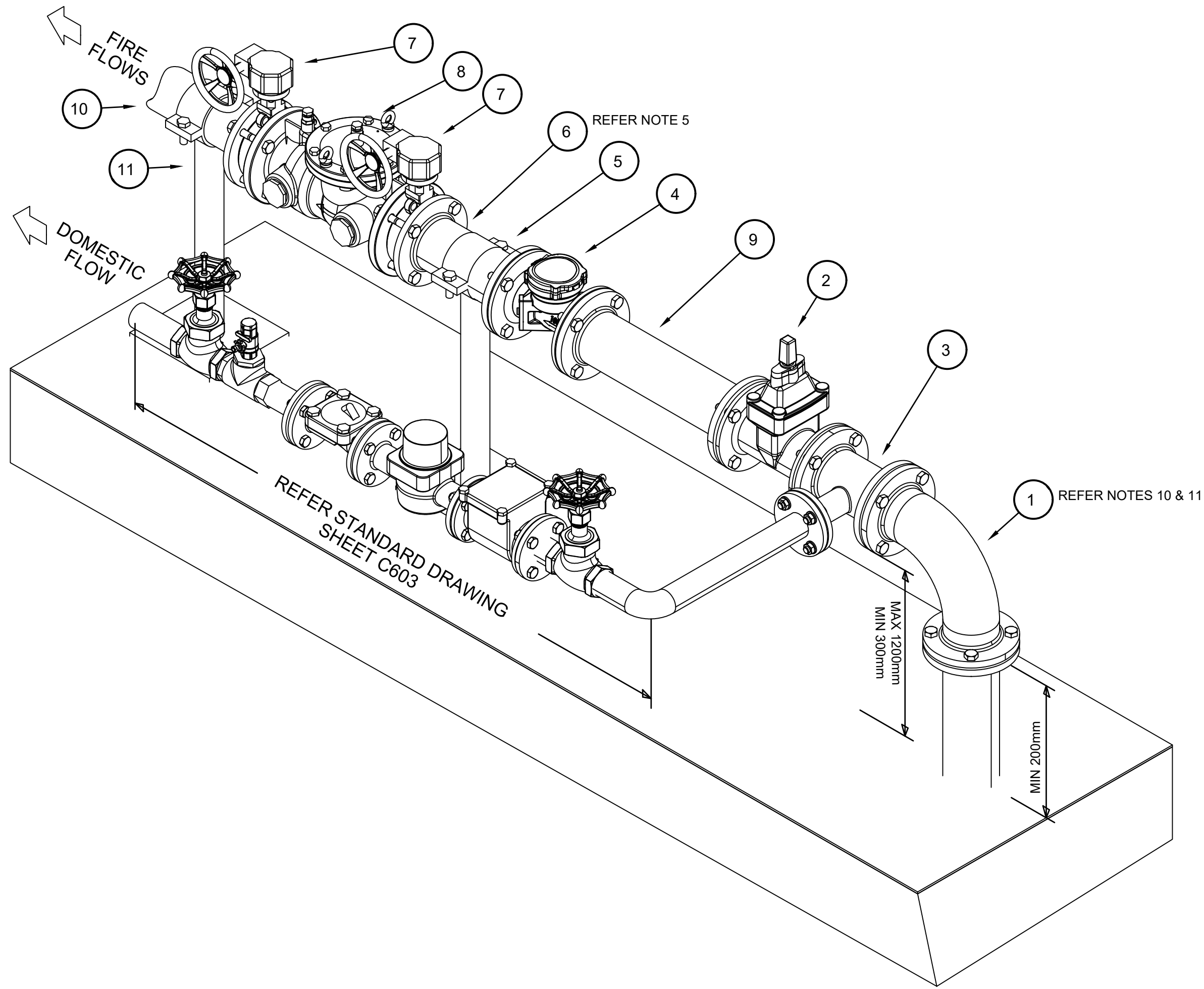
TELFORD CIVIL
DESIGN & CONSTRUCTION EXCELLENCE

Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124

Email : info@telfordcivil.com.au
Phone : 02 7809 4931
Company : Telford Consulting Pty Ltd

Drawing Title
WATER CONNECTION LAYOUT PLAN

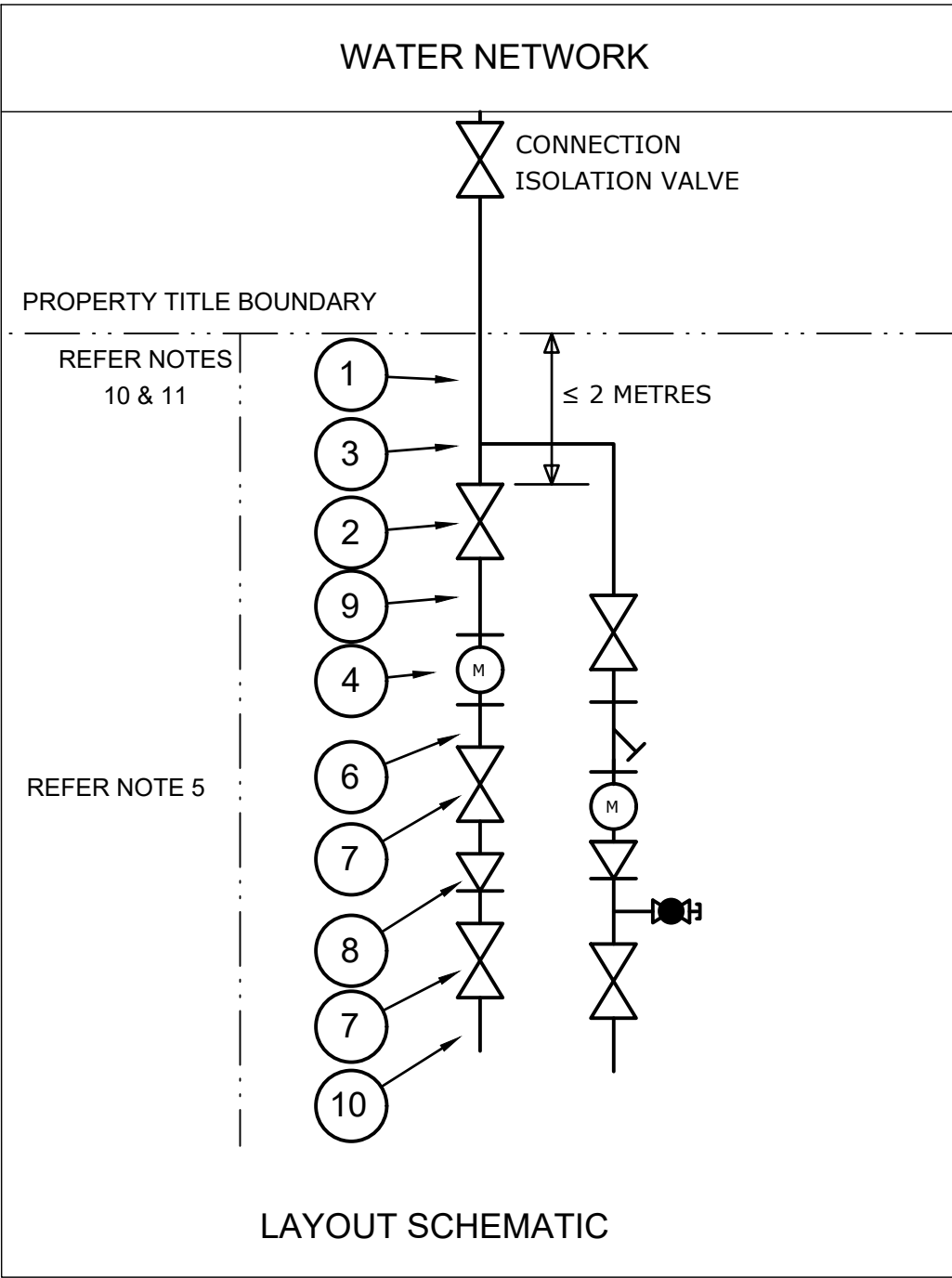
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AS SHOWN		23337	C601	B



NOTES:

1. THIS METER ASSEMBLY ARRANGEMENT IS FOR A DOMESTIC (DN32 AND LARGER) SERVICE COMBINED WITH A FIRE SERVICE (DN100 AND LARGER), WHICH ARE METERED SEPARATELY AND NOT INSTALLED TO SERVICE A TOWNHOUSE STYLE COMMUNITY TITLE SCHEME DEVELOPMENT.
2. THE METER ASSEMBLY ARRANGEMENT SHALL BE LOCATED WITHIN TWO (2) METRES OF THE FRONT PROPERTY BOUNDARY (REFER LAYOUT SCHEMATIC), UPSTREAM OF ALL INTERNAL OFFTAKES AND SHALL BE ACCESSIBLE FOR READING, MAINTENANCE AND REPLACEMENT AT ALL TIMES.
3. THE PROPERTY SERVICE AND METER ASSEMBLY SHALL BE LOCATED AT LEAST ONE (1) METRE FROM ALL ELECTRICAL SOURCES AND AT LEAST 600mm HORIZONTALLY CLEAR OF EXISTING / FUTURE DRIVEWAYS, FENCES AND STRUCTURES. ANY OTHER ARRANGEMENT IS SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
4. THE START OF THE METER ASSEMBLY SHALL HAVE MIN 300mm VERTICAL CLEARANCE BETWEEN FINISHED SURFACE LEVEL AND UNDERSIDE OF FLANGE (AS SHOWN). THE HORIZONTAL CLEARANCE BETWEEN THE FIRE SERVICE METER ARRANGEMENT AND THE DOMESTIC SERVICE SHALL BE AT LEAST 300mm.
5. ASSEMBLY DETAIL DOWNSTREAM OF THE FIRE SERVICE PIPE (ITEM 6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING. AS A MINIMUM, A CONTAINMENT BACKFLOW PREVENTION DEVICE MUST BE INSTALLED DOWNSTREAM OF THE PIPE (ITEM 6). THE BACKFLOW PREVENTION DEVICE MUST BE IN ACCORDANCE WITH AS 3500 AND BE AT LEAST A TESTABLE SINGLE CHECK VALVE.
6. WHERE THE FIRE SERVICE SUPPLIES BOTH HYDRANT AND SPRINKLER SERVICES, THE SPRINKLER SERVICE SHALL BRANCH OFF IMMEDIATELY DOWNSTREAM OF THE CONTAINMENT BACKFLOW PREVENTION DEVICE. HOSE REEL SERVICES MAY BE SUPPLIED FROM EITHER THE HYDRANT SERVICE LINE OR THE DOMESTIC SERVICE LINE.
7. THIS DRAWING ILLUSTRATES A DN150 FIRE SERVICE WITH A DN50 DOMESTIC SERVICE BRANCH. FITTINGS FOR OTHER SIZES SERVICES WILL BE SLIGHTLY DIFFERENT. THE TABLE BELOW DOES NOT PROVIDE DETAILS OF ALL THE FITTINGS REQUIRED, ONLY THE MAIN COMPONENTS.
8. REFER TO SEQ STANDARD DRAWING SEQ-WAT-1111-1 FOR FURTHER NOTES.
9. FOR CoGC, ALL ITEMS ARE TO BE SUPPLIED BY CUSTOMER.
10. FOR CoGC, IF ITEM 1 IS CONSTRUCTED THROUGH A BASEMENT TO AN ABOVE GROUND ASSEMBLY IT SHALL BE OWNED AND MAINTAINED BY THE CUSTOMER.
11. FOR UU, ITEM 1 IS SUPPLIED AND OWNED BY CUSTOMER.

ITEM	FITTING	SUPPLIED BY (REFER NOTE 9)	OWNERSHIP	DESCRIPTION		
				DN100 service Length approx 1.3m	DN150 service Length approx 1.8m	DN200 service Length approx 2.2m
1	Service Pipe and 90° Bend	SEQ-SP (Refer Note 11)	SEQ-SP (Refer Note 11)	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
2	Isolation Valve	SEQ-SP	SEQ-SP	DN100 FI-FI Gate Valve, thermal bonded epoxy coated.	DN150 FI-FI Gate Valve, thermal bonded epoxy coated.	DN200 FI-FI Gate Valve, thermal bonded epoxy coated.
3	Branch offtake Tee for domestic service	SEQ-SP	SEQ-SP	DN100/DNXX flanged reducing Tee 316SS	DN150/DNXX flanged reducing Tee 316SS	DN200/DNXX flanged reducing Tee 316SS
4	Fire Service Water Meter	SEQ-SP	SEQ-SP	100mm ultrasonic / electromagnetic meter	150mm ultrasonic / electromagnetic meter	200mm ultrasonic / electromagnetic meter
5	Pipe Support	SEQ-SP	SEQ-SP	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert
6	Pipe (3D)	SEQ-SP	SEQ-SP	DN100 FI-FI 316SS, 300mm long	DN150 FI-FI 316SS, 450mm long	DN200 FI-FI 316SS, 600mm long
7	Isolation Valve	Customer	Customer	DN100 FI-FI Gate Valve	DN150 FI-FI Gate Valve	DN200 FI-FI Gate Valve
8	Backflow Prevention Device (Refer Note 5&6 and AS 3500 Section 4)	Customer	Customer	AS/NZS 2845.1 Compliant	AS/NZS 2845.1 Compliant	AS/NZS 2845.1 Compliant
9	Pipe (5D)	SEQ-SP	SEQ-SP	DN100 FI-FI 316SS, 500mm long	DN150 FI-FI 316SS, 750mm long	DN200 FI-FI 316SS, 1000mm long
10	Service Pipe	Customer	Customer	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
11	Pipe Support	Customer	Customer	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert	Galvanized mild steel with rubber insert



LARGE METER ARRANGEMENT DN32 AND LARGER DOMESTIC
SERVICE WITH DN100 AND LARGER FIRE SERVICE

SCALE N.T.S.

A	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.	
Issue	Description	Date	Design	Checked	
1cm at full size					20cm

Certification By Dr. Michel Chasaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer
RPEQ 27152

Architect
SKYLINE
ARCHITECTS
30 Grose Street, Parramatta
NSW 2150
P: 0420 224 488
E: info@skylinearchitects.com.au

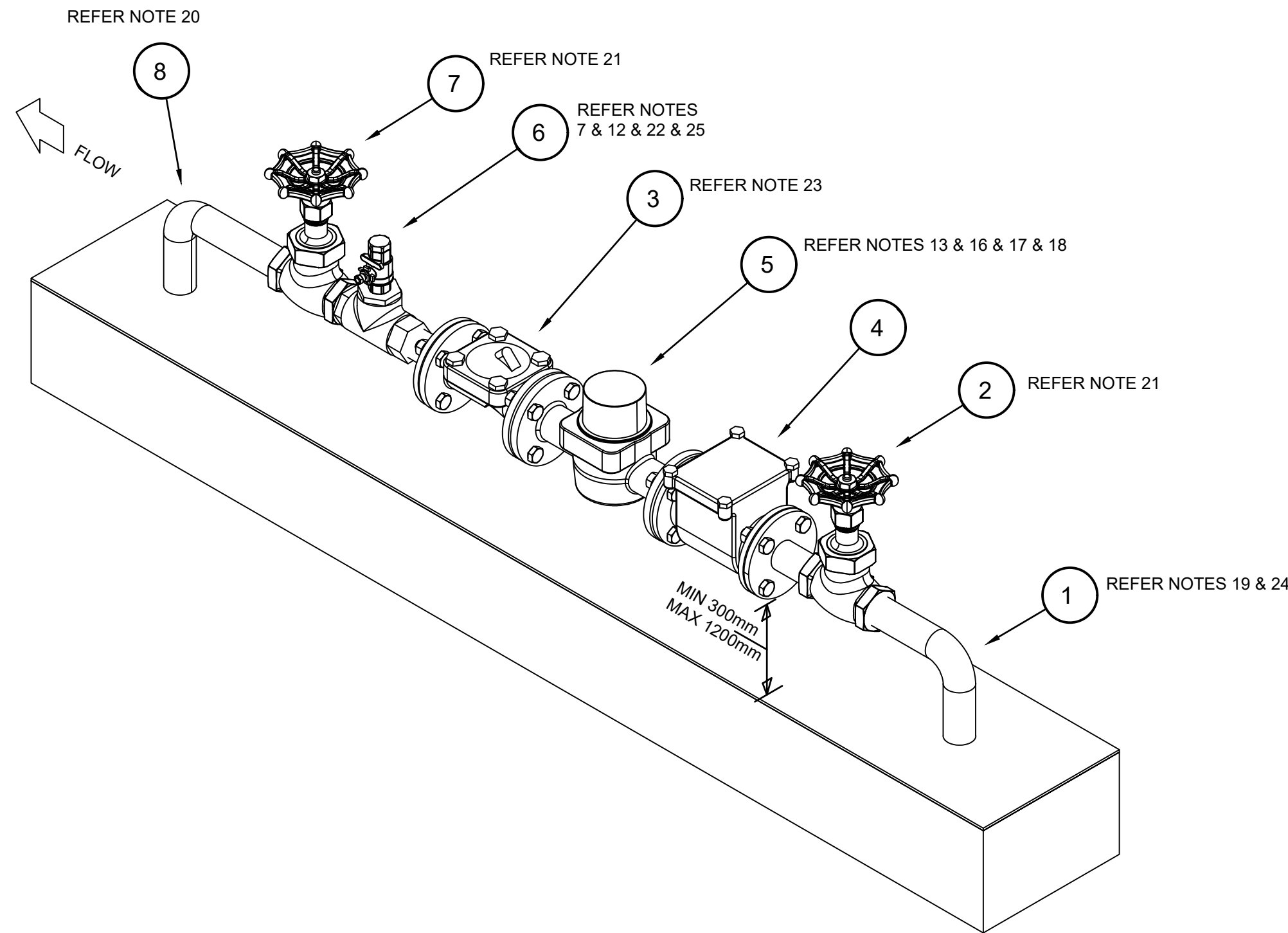
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Scale

TELFORD_{CIVIL}
DESIGN & CONSTRUCTION EXCELLENCE
Level 14, 32 Smith Street, Email : info@telfordcivil.com.au
Parramatta NSW 2150 Phone : 02 7809 4931
PO BOX 3579 Parramatta 2124 Company : Telford Consulting Pty Ltd

Project
14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION

Drawing Title
TYPICAL METER ASSEMBLIES
SHEET 01
Scale A1 Project No. 23337 Dwg. No. C602 Issue A



NOTES:

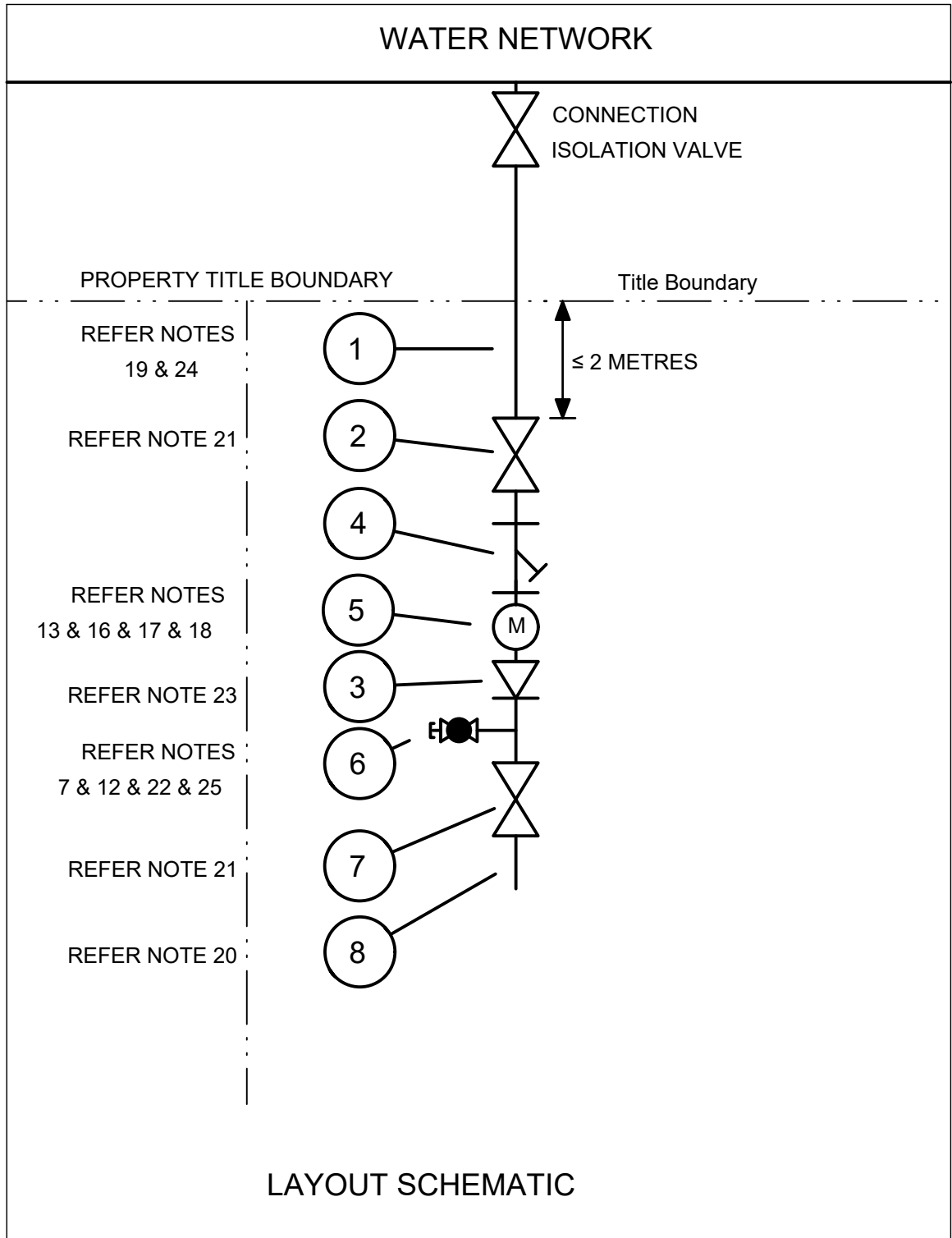
- THIS METER ASSEMBLY ARRANGEMENT IS ONLY APPLICABLE FOR DN32 AND LARGER DOMESTIC WATER SERVICE CONNECTIONS.
- THE METER SIZING GUIDE PROVIDED IN THIS DRAWING IS FOR REFERENCE ONLY. CORRECT METER SIZING IS THE RESPONSIBILITY OF THE HYDRAULIC ENGINEER.
- THIS METER ASSEMBLY ARRANGEMENT IS ONLY TO BE LOCATED WITHIN PRIVATE PROPERTY. THE 32mm (40mm FOR CoGC) METER ASSEMBLY ARRANGEMENT MAY ALSO BE LOCATED OUTSIDE OF PRIVATE PROPERTY AND UNDERGROUND, SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
- THE START OF THE METER ASSEMBLY MUST BE LOCATED WITHIN TWO METRES OF THE FRONT PROPERTY TITLE BOUNDARY (SEE LAYOUT SCHEMATIC), UPSTREAM OF ALL INTERNAL OFFTAKES, AND SHALL BE ACCESSIBLE FOR READING, MAINTENANCE AND REPLACEMENT AT ALL TIMES.
- THE PROPERTY SERVICE AND METER ASSEMBLY SHALL BE LOCATED AT LEAST 1.0m FROM ALL ELECTRICAL SOURCES AND AT LEAST 600mm HORIZONTALLY CLEAR OF EXISTING OR FUTURE DRIVEWAYS, FENCES AND STRUCTURES. ANY OTHER ARRANGEMENT IS SUBJECT TO PRIOR APPROVAL BY SEQ-SP.
- WATER METER ASSEMBLY SHALL HAVE A MINIMUM 300mm VERTICAL CLEARANCE FROM FINISHED SURFACE LEVEL TO UNDERSIDE OF FLANGE (AS SHOWN).
- ASSEMBLY DETAIL, DOWNSTREAM OF TEE & TESTING PORT (ITEM 6) IS SHOWN FOR REFERENCE ONLY AND IS CLASSIFIED AS PRIVATE PLUMBING. FOR UU ACCEPTANCE OF METER ASSEMBLY REQUIRES BACKFLOW PREVENTION DEVICE AND ISOLATION VALVE BE INSTALLED WITHIN 5M OF PIPE LENGTH DOWNSTREAM OF THE WATER METER, AND THE BACKFLOW PREVENTION DEVICE MUST BE IN ACCORDANCE WITH AS 3500 AND BE AT LEAST A TESTABLE SINGLE CHECK VALVE.
- SERVICE PIPE SMALLER THAN DN100 SHALL BE CONTINUOUS COPPER TO AS 1432.
- PE PIPE SHALL NOT BE INSTALLED ABOVE GROUND.
- THE ARRANGEMENT SHOWN ON THIS DRAWING ILLUSTRATES A DN50 SERVICE ARRANGEMENT. FITTINGS FOR OTHER SIZE SERVICES WILL BE SLIGHTLY DIFFERENT. THE TABLE BELOW DOES NOT PROVIDE DETAILS FOR ALL FITTINGS REQUIRED, ONLY THE MAIN COMPONENTS.
- REFER TO SEQ STANDARD DRAWING SEQ-WAT-1111-1 FOR FURTHER NOTES.
- ITEM 6 IS NOT REQUIRED FOR LCC.
- CoGC REQUIRES 5U/3D STRAIGHT PIPES FOR MECHANICAL METERS AS PER METER MANUFACTURER'S REQUIREMENTS. REFER SEQ-WAT-1111-4 OR SEQ-WAT-1111-8 FOR STRAIGHT PIPE DETAILS.
- FOR CoGC, ALL ITEMS ARE TO BE SUPPLIED BY CUSTOMER.
- THE ITEMS OWNED BY RCC ARE SUPPLIED THROUGH RCC.
- CoGC DOES NOT USE 32mm OR 80mm METERS.
- RCC DOES NOT ACCEPT DN100 SERVICE WITH 80mm METER.
- UU DOES NOT ACCEPT 40mm METER.
- FOR CoGC, IF ITEM 1 IS CONSTRUCTED THROUGH A BASEMENT TO AN ABOVE GROUND ASSEMBLY ITEM 1 SHALL BE OWNED AND MAINTAINED BY THE CUSTOMER.
- ITEM 8 IS SUPPLIED AND OWNED BY LCC.
- FOR LCC, VALVE ARRANGEMENT AS PER DRAWING SEQ-WAT-1111-10.
- FOR UW, ITEM 6 IS SUPPLIED BY CUSTOMER.
- FOR UU, ITEM 3 TO BE FITTED UPSTREAM STRAINER ITEM 4.
- FOR UU, ITEM 1 IS SUPPLIED AND OWNED BY CUSTOMER.
- FOR UU, ITEM 6 IS OWNED BY UU.

ITEM	FITTING	SUPPLIED BY (REFER NOTES 14 & 15)	OWNERSHIP	DESCRIPTION						
				DN32 service * Length approx 0.5m	DN40 service * Length approx 0.5m	DN50 service Length approx 1m	DN100 service (with 80mm meter) Length approx 1.1m	DN100 service (with 100mm meter) Length approx 1.3m	DN150 service Length approx 1.5m	DN200 service Length approx 1.7m
1	Service Pipe and 90° Bend	SEQ-SP (Refer Note 24)	SEQ-SP (Refer Note 24)	DN32 Copper Class A, silver soldered with brass union, capillary - BSP M	DN40 Copper Class A, silver soldered with brass union, capillary - BSP M	DN50 Copper Class A, silver soldered with brass union, capillary - BSP M	DN100 FI-FI DI, thermal bonded epoxy coated	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
2	Isolation Valve	SEQ-SP	SEQ-SP	DN32 BSP Brass Ball / Globe Valve	DN40 BSP Brass Ball / Globe Valve	DN50 BSP Brass Ball / Globe Valve	DN100 FI-FI Gate Valve, thermal bonded epoxy coated ##	DN100 FI-FI Gate Valve, thermal bonded epoxy coated	DN150 FI-FI Gate Valve, thermal bonded epoxy coated	DN200 FI-FI Gate Valve, thermal bonded epoxy coated
3	Non Return Valve	SEQ-SP	SEQ-SP	**	**	DN50 FI-FI Swing check valve	DN80 FI-FI Swing check valve	DN100 FI-FI Swing check valve	DN150 FI-FI Swing check valve	DN200 FI-FI Swing check valve
4	Strainer	SEQ-SP	SEQ-SP	**	**	DN50 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN80 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN100 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN150 FI-FI in-line basket strainer, thermal bonded epoxy coated	DN200 FI-FI in-line basket strainer, thermal bonded epoxy coated
5	Water Meter	SEQ-SP	SEQ-SP	32mm mechanical meter (refer Note 2)	40mm mechanical meter (refer Note 2)	50mm mechanical meter (refer Note 2)	80mm mechanical meter (refer Note 2)	100mm mechanical meter (refer Note 2)	150mm mechanical meter (refer Note 2)	200mm mechanical meter (refer Note 2)
6	Tee & Testing Port	SEQ-SP (Refer Notes 12 & 22)	Customer (Refer Notes 12 & 25)	DN32 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN40 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN50 x DN25 Brass Tee with DN25 BSP Brass Ball Valve	DN80 FI-FI 316SS with DN25 tapping and DN25 BSP Brass Ball Valve	DN100 FI-FI 316SS with DN25 tapping and DN25 BSP Brass Ball Valve	DN150 FI-FI 316SS with DN25 tapping and DN25 BSP brass ball valve	DN200 FI-FI 316SS with DN25 tapping and DN25 BSP brass ball valve
7	Customer Isolation Valve	Customer (Refer Note 21)	Customer (Refer Note 21)	BSP Brass Ball/Globe Valve	BSP Brass Ball/Globe Valve	Brass Ball/Globe Valve	Brass Ball/Globe Valve	Gate Valve, thermal bonded epoxy coated	Gate Valve, thermal bonded epoxy coated	Gate Valve, thermal bonded epoxy coated
8	Service Pipe and 90° Bend	Customer (Refer Note 20)	Customer (Refer Note 20)	DN32 Copper Class A, silver soldered with brass union, capillary - BSP M	DN40 Copper Class A, silver soldered with brass union, capillary - BSP M	DN50 Copper Class A, silver soldered with brass union, capillary - BSP M	DN100 FI-FI DI, thermal bonded epoxy coated	DN100 FI-FI DI, thermal bonded epoxy coated	DN150 FI-FI DI, thermal bonded epoxy coated	DN200 FI-FI DI, thermal bonded epoxy coated
NA	Meter sizing guide - Number of dwellings serviced	NA	NA	7 - 21		22 -89	90 - 300	301 - 500	501 - 800	> 800

DN100/80 FL-FL REDUCER (THERMAL BONDED EPOXY) TO BE INSTALLED ON DOWNSTREAM SIDE OF ISOLATION VALVE (ITEM 2).
* CUSTOMER TO SUPPLY DN32 AND DN40 WATER METER ASSEMBLY WHEN USED AS A DOMESTIC SERVICE ONLY.
** WHERE DN32 AND DN40 WATER METERS DO NOT INCORPORATE INTEGRAL FLOW RESTRICTER VALVES AND/OR STRAINER, EXTERNAL NON RETURN VALVE AND/OR STRAINER TO BE INSTALLED.

LARGE METER ARRANGEMENT
DN32 AND LARGER DOMESTIC SERVICE WITH MECHANICAL METER

SCALE N.T.S.



Issue	Description	Date	Design	Checked
A	ISSUE FOR OPERATIONAL WORKS	28/05/2024	J.E.H.	J.A.B.

Certification By Dr. Michel Chaya
B.E., M.E. (Res), Ph.D., F.I.E. Aust., CPEng.,
Civil & Structural Engineer
RPEQC 27152

Architect
SKYLINE
ARCHITECTS
30 Grose Street, Parramatta
NSW 2150
P: 0420 224 488
E: info@skylinearchitects.com.au

Council

Scale

Project

TELFORD**CIVIL**
DESIGN & CONSTRUCTION EXCELLENCE
Level 14, 32 Smith Street,
Parramatta NSW 2150
PO BOX 3579 Parramatta 2124
Email : info@telfordcivil.com.au
Phone : 02 7809 4931
Company : Telford Consulting Pty Ltd

14 EASTRIDGE STREET, STAPYLTON QLD
PROPOSED WAREHOUSE
CIVIL ENGINEERING PLANS
FOR CONSTRUCTION

Drawing Title
**TYPICAL METER ASSEMBLIES
SHEET 02**
Scale A1 Project No. 23337 Dwg. No. C603 Issue A