

# OBERON SPORTS FACILITY 31 O'CONNELL ROAD OBERON NSW 2787 HYDRAULIC ENGINEERING DRAWINGS

## DRAWING LIST

- H1.01 COVER SHEET
- H1.02 LEGEND & NOTES
  
- H2.01 SITE PLAN
  
- H3.01 GROUND FLOOR PLAN - GRAVITY LAYOUT
- H3.02 FIRST FLOOR PLAN - GRAVITY LAYOUT
  
- H4.01 GROUND FLOOR PLAN - PRESSURE LAYOUT
- H4.02 FIRST FLOOR PLAN - PRESSURE LAYOUT
  
- H5.01 ROOF PLAN
  
- H6.01 DETAIL SHEET
- H6.02 CALCULATION & DETAIL SHEET

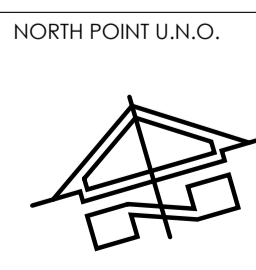


LOCALITY PLAN



PRELIMINARY ISSUE  
AMENDMENTS

06.03.24 A S.T.  
DATE ISSUE BY



ARCHITECT  
**SPACE URBAN**  
A BORG COMPANY  
2 WELLA WAY,  
SOMERSBY NSW 2250



CLIENT  
OBERON COUNCIL

PROJECT  
OBERON SPORTS FACILITY  
31 O'CONNELL ROAD  
OBERON NSW 2787

DESIGNED B.R. DRAWN S.T. DATE FEB 24 SIZE A1 CAD REF TX17822.00 H1.01



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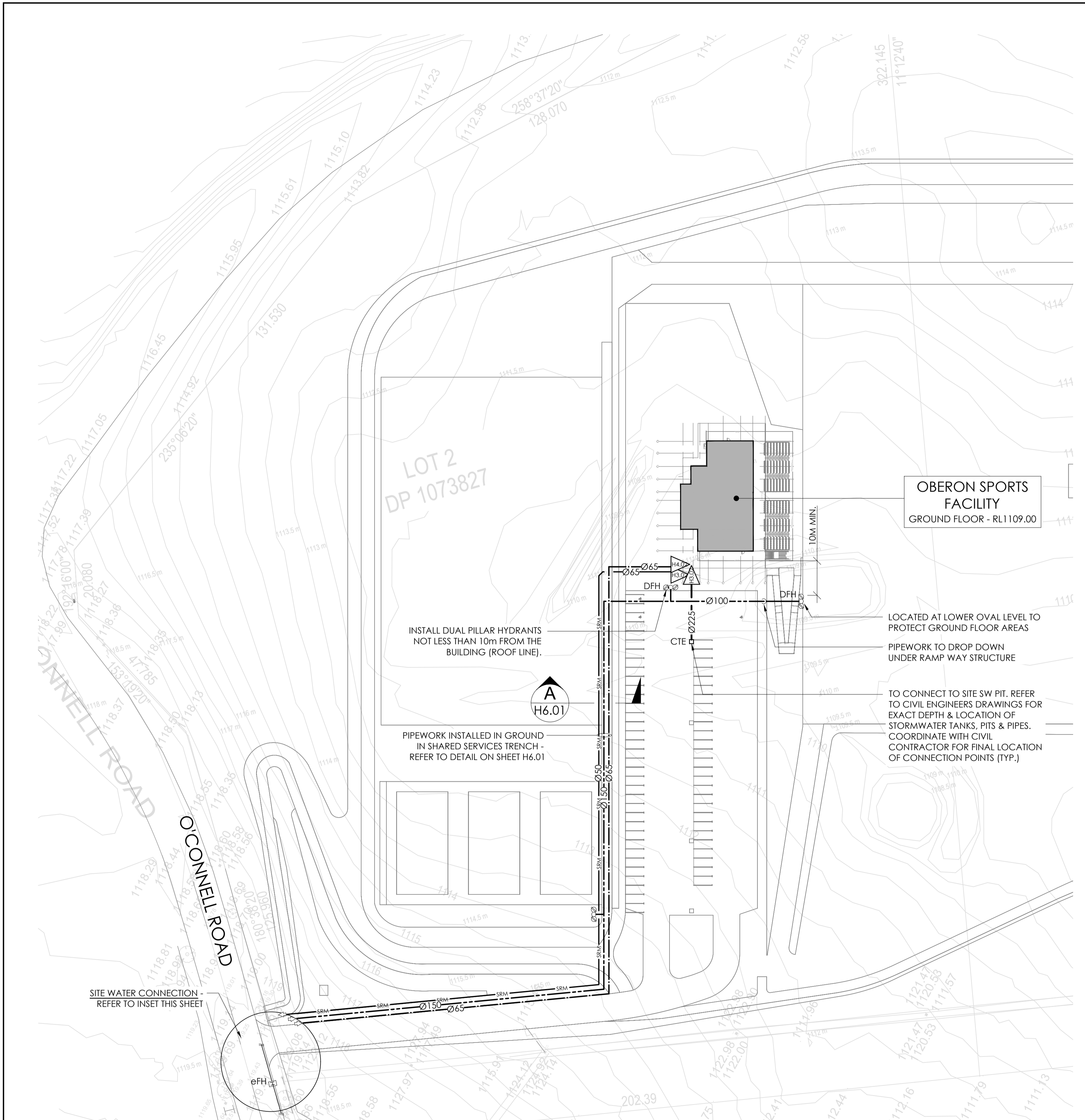
DRAWING TITLE  
HYDRAULIC SERVICES  
COVER SHEET

PROJECT No. TX17822.00 DRAWING No. H1.01 ISSUE A

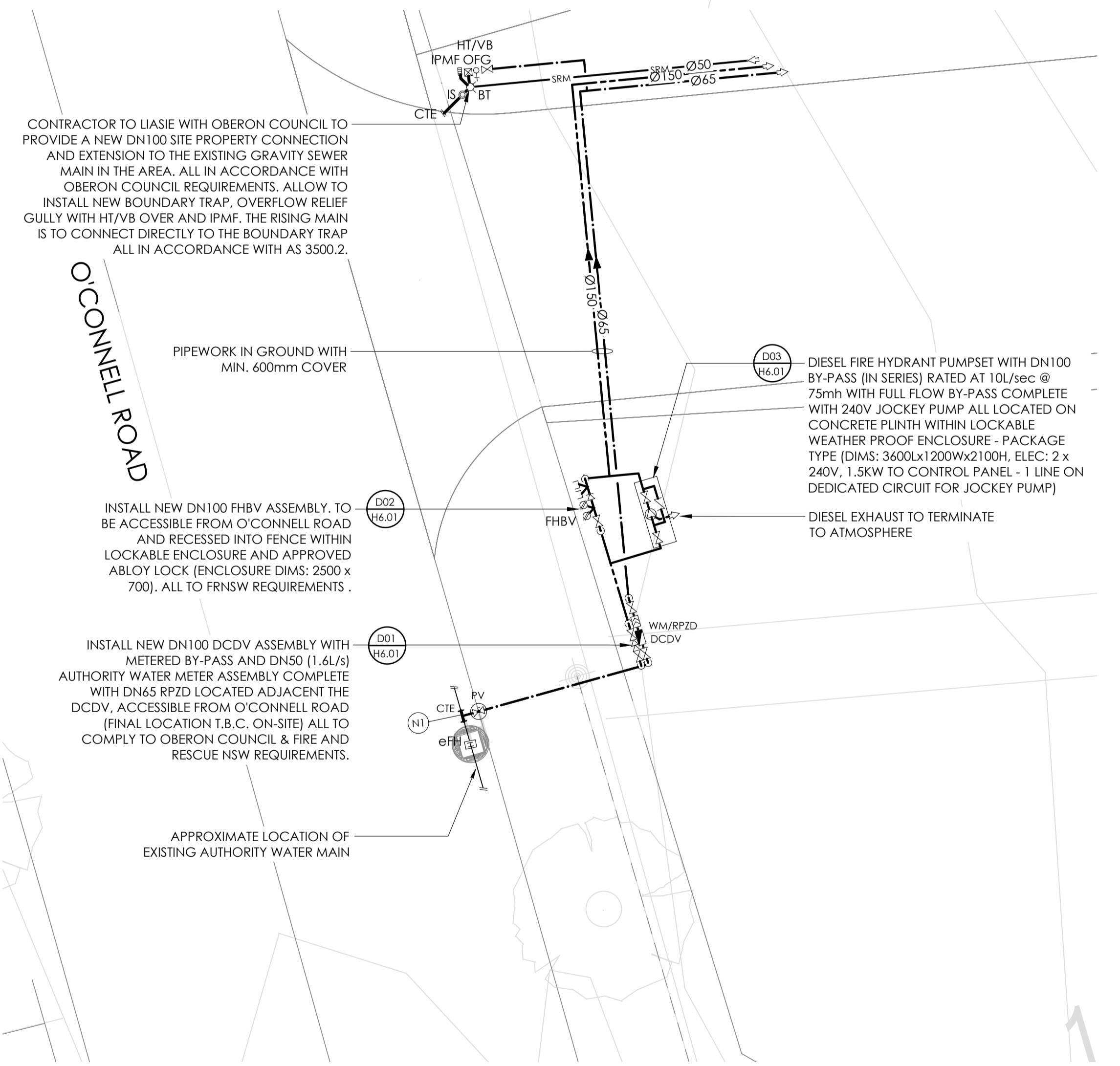
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- NOTES**
- (N1) MAKE APPLICATION, PAY ALL ASSOCIATED FEES AND MAKE NEW COMBINED Ø100 FIRE AND DOMESTIC WATER CONNECTION TO THE AUTHORITY WATER MAIN. INCLUDE FOR SAW CUTTING OF ROAD, DIAL BEFORE YOU DIG INVESTIGATION, TRAFFIC CONTROL, EXCAVATION & COMPACTION TO ENGINEERS' SATISFACTION, AND RESURFACING OF THE ROAD. ALL WORK IS TO BE CARRIED OUT BY LICENSED PERSONNEL, RECOGNISED BY THE AUTHORITY AND IN ACCORDANCE WITH AS 3500, SERVICE NSW AND LOCAL COUNCIL REQUIREMENTS.
  - (N2) ALLOW TO ADVISE AUTHORITIES AND SEAL OFF ALL DISUSED CONNECTIONS AT JUNCTIONS TO THE MAINS AND RETURN ALL DISUSED METERS.
  - (N3) EXISTING SERVICES ARE SHOWN FOR INDICATION ONLY. EXACT LOCATION, DEPTHS AND SIZE ARE TO BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY BUILDING WORKS.
  - (N4) HYDRAULIC SERVICES CONTRACTOR TO COORDINATE WITH ALL OTHER BUILDING SERVICES TRADES AS REQUIRED AND ANY DISCREPANCIES SHALL BE REPORTED TO PRINCIPAL'S AUTHORISED PERSON (PAP)
  - (N5) PROVIDE EXTERNAL HOSE TAPS AS REQUIRED FITTED WITH VACUUM BREAKER AND ANTI-VANDAL HEAD.
  - (N6) EXACT ROUTE OF PIPEWORK TO BE COORDINATED WITH OTHER SERVICES & STRUCTURES.
  - (N7) ALL WORKS TO COMPLY TO AS 3500 AND LOCAL AUTHORITIES REQUIREMENTS.
  - (N8) ALL PIPE SIZES INDICATED ON THE DRAWINGS ARE INTERNAL BORE DIAMETER (COPPER PIPE SIZING) UNLESS NOTED OTHERWISE (U.N.O.)



**SITE PLAN**  
SCALE 1:750 AT A1



**INSET - SITE WATER CONNECTIONS**  
SCALE 1:100 AT A1

0 15 30 45 60 75m  
SCALE 1:750 AT A1 SHEET | 1:1500 AT A3 SHEET

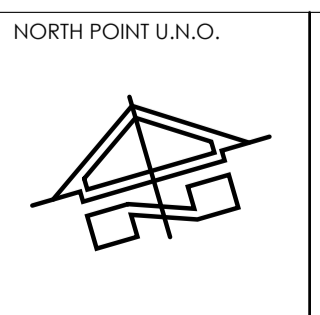
0 1 2 3 4 5 6 7 8 9 10m  
SCALE 1:100 AT A1 SHEET | 1:200 AT A3 SHEET

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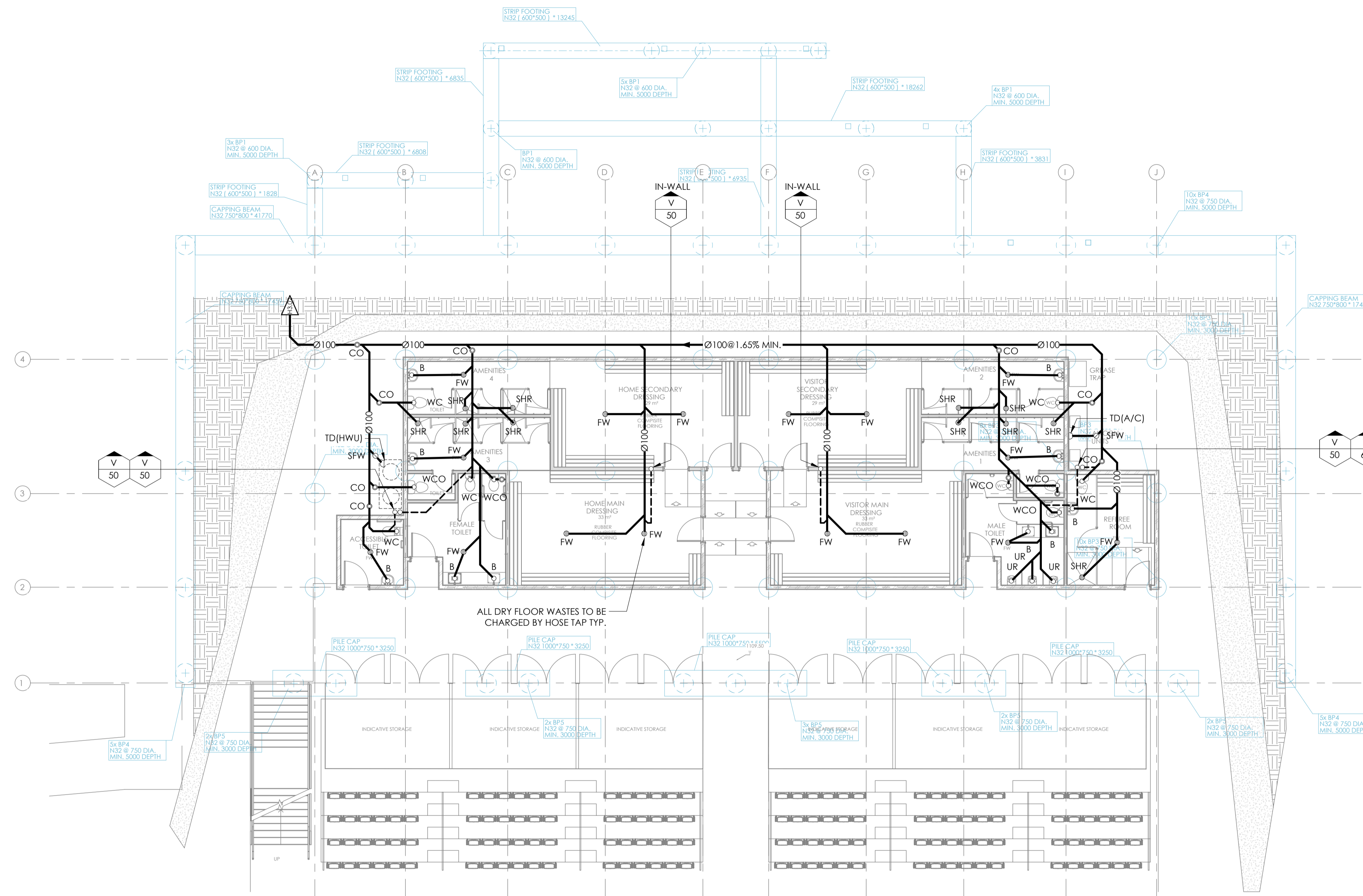
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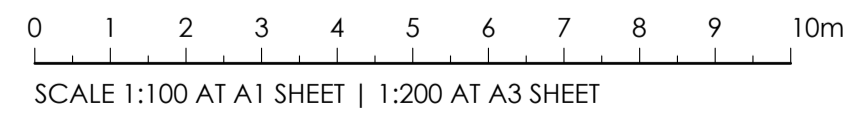
DRAWING TITLE  
**HYDRAULIC SERVICES OVERALL SITE PLAN**

PROJECT No. **TX17822.00**  
DRAWING No. **H2.01**  
ISSUE **A**



**GROUND FLOOR GRAVITY LAYOUT**  
SCALE 1:100 AT A1

- NOTES**
- (N1) HYDRAULIC SERVICES CONTRACTOR TO COORDINATE WITH ALL OTHER BUILDING SERVICES TRADES AS REQUIRED AND ANY DISCREPANCIES SHALL BE REPORTED TO PRINCIPAL'S AUTHORISED PERSON (PAP).
  - (N2) EXACT ROUTE OF NEW PIPEWORK TO BE COORDINATED WITH EXISTING SERVICES & STRUCTURES AND APPROVED BY STRUCTURAL ENGINEER
  - (N3) ALLOW TO COORDINATE AND INSTALL TUNDISHES IN ACCESSIBLE LOCATIONS UNDER BENCH OR AT HIGH LEVEL FOR MECHANICAL CONDENSATE DRAINS. ALL IN ACCORDANCE WITH AS3500 AND FAIR TRADING NSW ADVISORY NOTE: 14/2021. REFER TO MECHANICAL ENGINEERS DRAWINGS FOR EXACT LOCATIONS.
  - (N4) ALL SANITARY & STORMWATER DRAINAGE PIPEWORK SHALL BE IN UPVC UNLESS NOTED OTHERWISE.
  - (N5) ALL BASINS TO BE 'P' TRAPPED WITH WASTE PIPE RECESSED INTO WALL.
  - (N6) REFER TO ROOM DATA SHEETS AND ARCHITECTURAL DRAWINGS FOR EXACT TYPE AND LOCATION OF ALL SANITARY FIXTURES AND EQUIPMENT.
  - (N7) ALL WORKS TO COMPLY TO AS/NZS3500 AND LOCAL AUTHORITY REQUIREMENTS.



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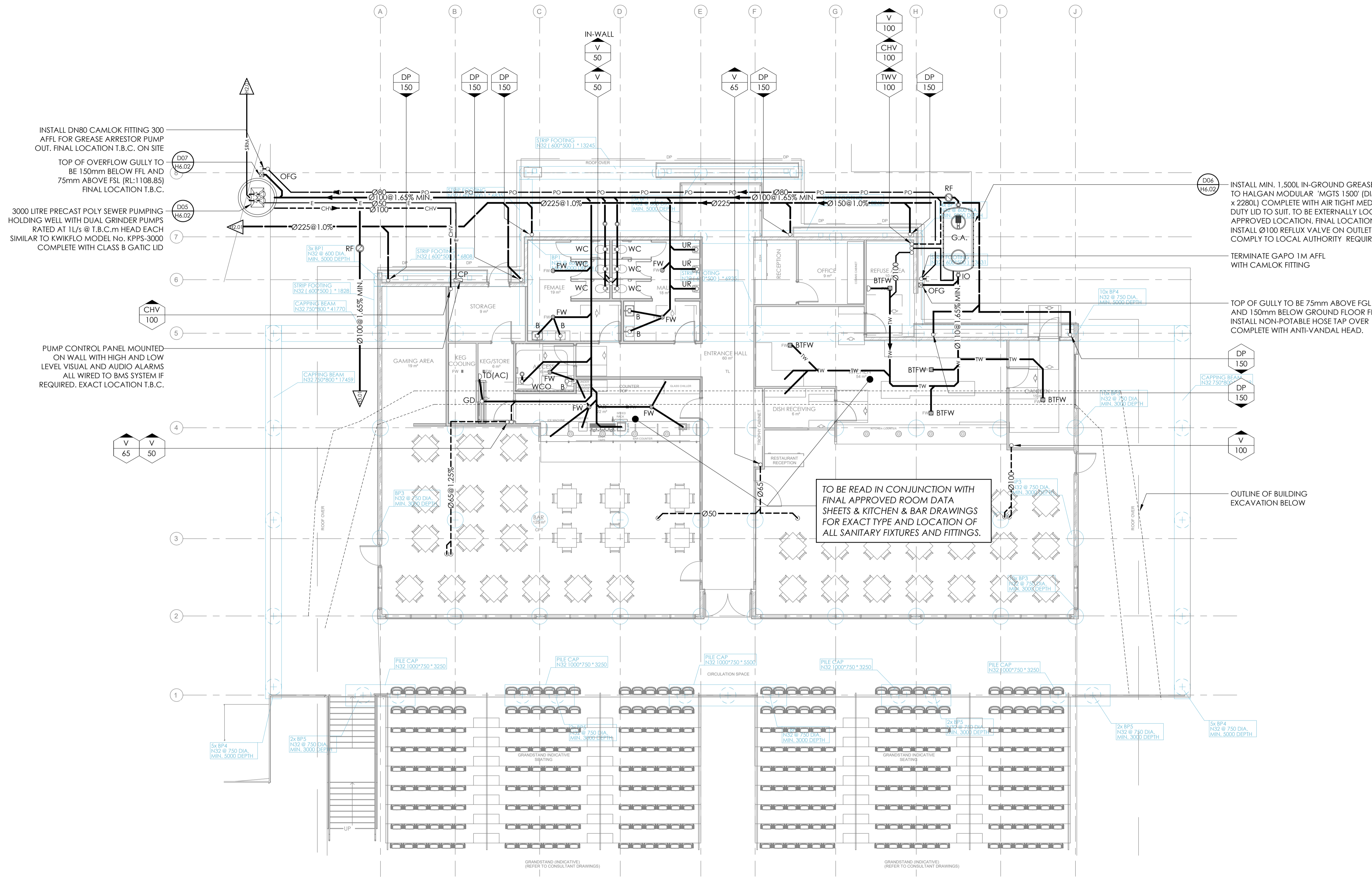
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DRAWING TITLE  
**HYDRAULIC SERVICES**  
**GROUND FLOOR PLAN**  
**GRAVITY LAYOUT**

PROJECT No.  
**TX17822.00**

DRAWING No.  
**H3.01**

ISSUE  
**A**



INSTALL DN80 CAMLOK FITTING 300 AFFL FOR GREASE ARRESTOR PUMP OUT. FINAL LOCATION T.B.C. ON SITE

TOP OF OVERFLOW GULLY TO BE 150mm BELOW FFL AND 75mm ABOVE FSL (RL: 1108.85) FINAL LOCATION T.B.C.

3000 LITRE PRECAST POLY SEWER PUMPING HOLDING WELL WITH DUAL GRINDER PUMPS RATED AT 1/1/6 @ T.B.C.m HEAD EACH SIMILAR TO KWIKFLO MODEL No. KPPS-3000 COMPLETE WITH CLASS B GATIC LID

PUMP CONTROL PANEL MOUNTED ON WALL WITH HIGH AND LOW LEVEL VISUAL AND AUDIO ALARMS ALL WIRED TO BMS SYSTEM IF REQUIRED. EXACT LOCATION T.B.C.

INSTALL MIN. 1,500L IN-GROUND GREASE ARRESTOR EQUAL TO HALGAN MODULAR 'MGTS 1500' (DIMS: 1550H x 1130W x 2280L) COMPLETE WITH AIR TIGHT MEDIUM OR HEAVY DUTY LID TO SUIT. TO BE EXTERNALLY LOCATED IN APPROVED LOCATION. FINAL LOCATION T.B.C. ON-SITE. INSTALL Ø100 REFLUX VALVE ON OUTLET - ILS.300. ALL TO COMPLY TO LOCAL AUTHORITY REQUIREMENTS.

TERMINATE GAPO 1M AFFL WITH CAMLOK FITTING

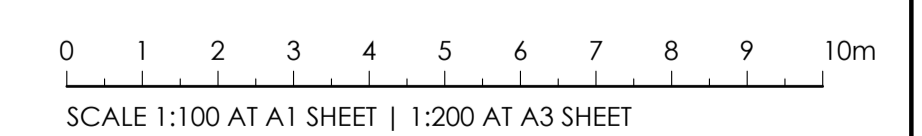
TOP OF GULLY TO BE 75mm ABOVE FGL AND 150mm BELOW GROUND FLOOR FFL. INSTALL NON-POTABLE HOSE TAP OVER COMPLETE WITH ANTI-VANDAL HEAD.

TO BE READ IN CONJUNCTION WITH FINAL APPROVED ROOM DATA SHEETS & KITCHEN & BAR DRAWINGS FOR EXACT TYPE AND LOCATION OF ALL SANITARY FIXTURES AND FITTINGS.

OUTLINE OF BUILDING EXCAVATION BELOW

**FIRST FLOOR GRAVITY LAYOUT**  
SCALE 1:100 AT A1

- NOTES**
- (N1) HYDRAULIC SERVICES CONTRACTOR TO COORDINATE WITH ALL OTHER BUILDING SERVICES TRADES AS REQUIRED AND ANY DISCREPANCIES SHALL BE REPORTED TO PRINCIPAL'S AUTHORISED PERSON (PAP).
  - (N2) EXACT ROUTE OF NEW PIPEWORK TO BE COORDINATED WITH EXISTING SERVICES & STRUCTURES AND APPROVED BY STRUCTURAL ENGINEER
  - (N3) ALLOW TO COORDINATE AND INSTALL TUNDISHES IN ACCESSIBLE LOCATIONS UNDER BENCH OR AT HIGH LEVEL FOR MECHANICAL CONDENSATE DRAINS. ALL IN ACCORDANCE WITH AS3500 AND FAIR TRADING NSW ADVISORY NOTE: 14/2021. REFER TO MECHANICAL ENGINEERS DRAWINGS FOR EXACT LOCATIONS.
  - (N4) ALL SANITARY & STORMWATER DRAINAGE PIPEWORK SHALL BE IN UPVC UNLESS NOTED OTHERWISE.
  - (N5) ALL KITCHEN TRADE WASTE PIPEWORK TO THE GREASE ARRESTOR SHALL BE FUSION WELDED HDPE.
  - (N6) ALL BASINS TO BE 'P' TRAPPED WITH WASTE PIPE RECESSED INTO WALL.
  - (N7) ALL DOWNPIPES ARE MINIMUM DN150 DIAMETER TO ARCHITECTS SPECIFICATION U.N.O.
  - (N8) REFER TO ROOM DATA SHEETS AND ARCHITECTURAL DRAWINGS FOR EXACT TYPE AND LOCATION OF ALL SANITARY FIXTURES AND EQUIPMENT.
  - (N9) ALL WORKS TO COMPLY TO AS/NZS3500 AND LOCAL AUTHORITY REQUIREMENTS.



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OPBERON NSW 2787

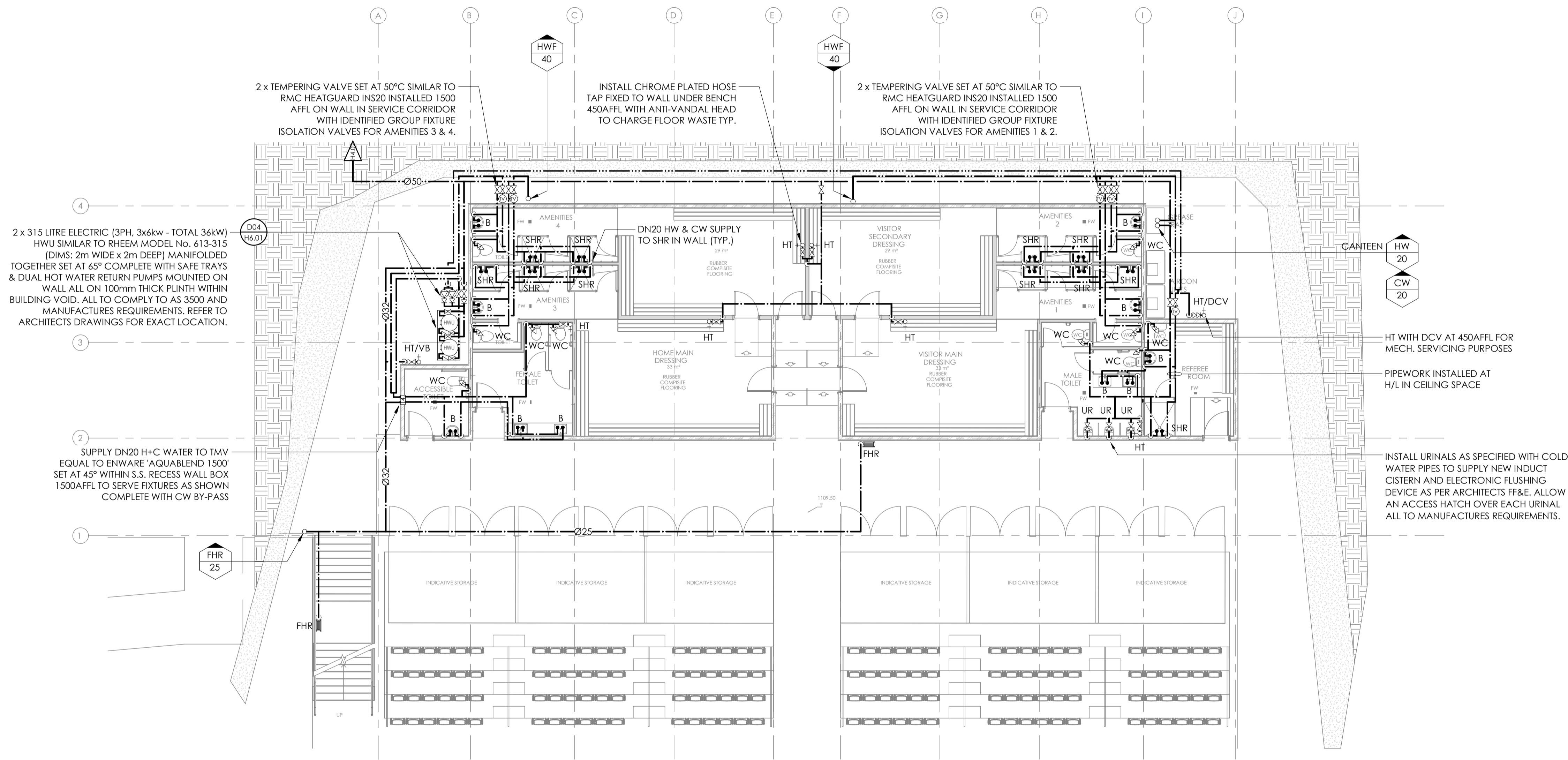
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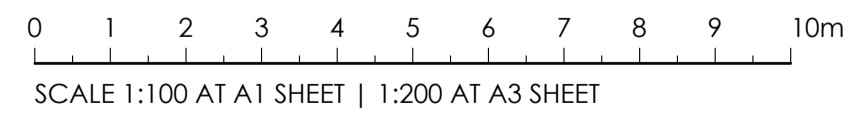
DRAWING TITLE  
**HYDRAULIC SERVICES**  
**FIRST FLOOR PLAN**  
**GRAVITY LAYOUT**

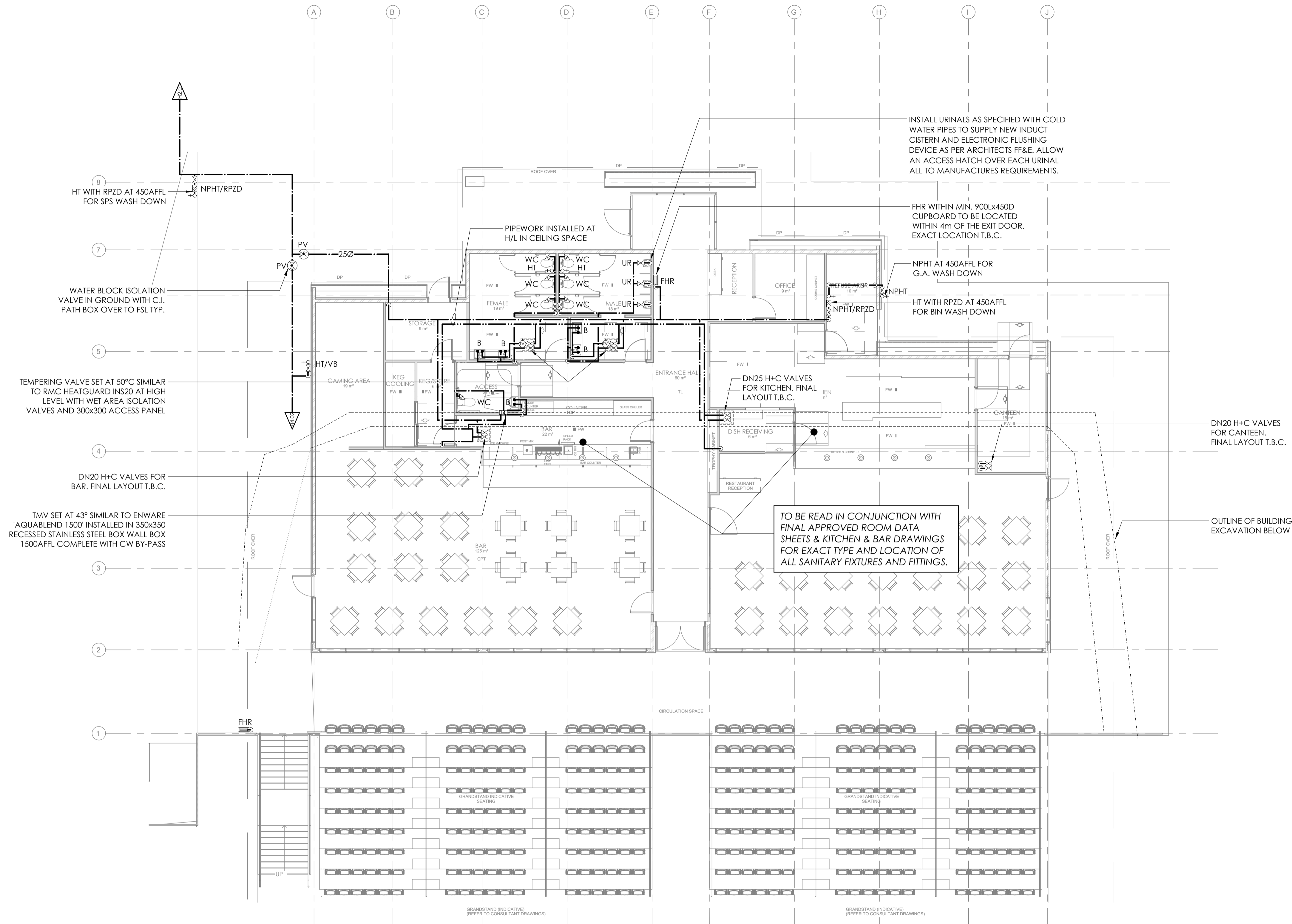
PROJECT No. **TX17822.00** DRAWING No. **H3.02** ISSUE **A**



**GROUND FLOOR PRESSURE LAYOUT**  
SCALE 1:100 AT A1

- DESIGN NOTES**
- (N1) HYDRAULIC SERVICES CONTRACTOR TO COORDINATE WITH ALL OTHER BUILDING SERVICES TRADES AS REQUIRED AND ANY DISCREPANCIES SHALL BE REPORTED TO PRINCIPAL'S AUTHORISED PERSON (PAP).
  - (N2) EXACT ROUTE OF PIPEWORK TO BE COORDINATED WITH OTHER SERVICES & STRUCTURES.
  - (N3) INSTALL WET AREA WATER ISOLATION VALVES IDENTIFIED AT HIGH LEVEL DIRECTLY ABOVE 300x300 ACCESS PANEL OR UNDER BENCH AS REQUIRED. COORDINATE FINAL LOCATIONS OF CEILING HATCHES WITH OTHER TRADES. ALL INDIVIDUAL FIXTURES TO BE ISOLATED AT THE FIXTURE WITH MINI BALL VALVE TYPE ISOLATION.
  - (N4) PROVIDE BRASS EXTERNAL HOSE TAPS FITTED WITH VANDAL PROOF KEY PATTERN HEAD. ALL POTABLE HOSE TAPS TO BE FITTED WITH A VACUUM BREAKER U.N.O. REFER TO DETAILS ON DRAWING H3.01. ALLOW TO COORDINATE AND CONFIRM FINAL LOCATIONS ON SITE WITH LANDSCAPE CONTRACTOR.
  - (N5) INSTALL BASIN COMPLETE WITH HANDS FREE TAPWARE TO ARCHITECTS SPECIFICATION COMPLETE WITH TEMPERING VALVE (TV) SET AT 45°C SIMILAR TO RMC 'HEATGUARD INS15' UNDER SERVE TEMPERED HOT & COLD WATER TO HAND BASIN ONLY. INSTALL UN-TEMPERED CW & HW HTS UNDER BASIN FOR CLEANING PURPOSES.
  - (N6) REFER TO REFER TO ROOM DATA SHEETS, ARCHITECTURAL AND KITCHEN CONSULTANTS PLANS & FF&E SCHEDULE FOR EXACT LOCATION AND DETAIL OF ALL FIXTURES AND FITTINGS.
  - (N7) ALL WORKS TO COMPLY TO AS/NZS3500 AND LOCAL AUTHORITY REQUIREMENTS.
  - (N8) ALL PIPE SIZES INDICATED ON THE DRAWINGS ARE INTERNAL BORE DIAMETER (COPPER PIPE SIZING) UNLESS NOTED OTHERWISE.





**FIRST FLOOR PRESSURE LAYOUT**  
SCALE 1:100 AT A1

**DESIGN NOTES**

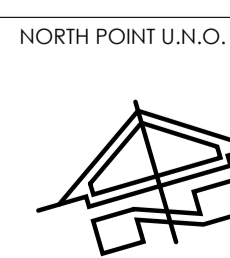
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- (N6) REFER TO REFER TO ROOM DATA SHEETS, ARCHITECTURAL AND KITCHEN CONSULTANTS PLANS & FF&E SCHEDULE FOR EXACT TYPE AND LOCATION OF ALL WET AREA FIXTURES AND FITTINGS.
- (N7) ALL WORKS TO COMPLY TO AS/NZS3500 AND LOCAL AUTHORITY REQUIREMENTS.
- (N8) ALL PIPE SIZES INDICATED ON THE DRAWINGS ARE INTERNAL BORE DIAMETER (COPPER PIPE SIZING) UNLESS NOTED OTHERWISE.

0 1 2 3 4 5 6 7 8 9 10m  
SCALE 1:100 AT A1 SHEET | 1:200 AT A3 SHEET

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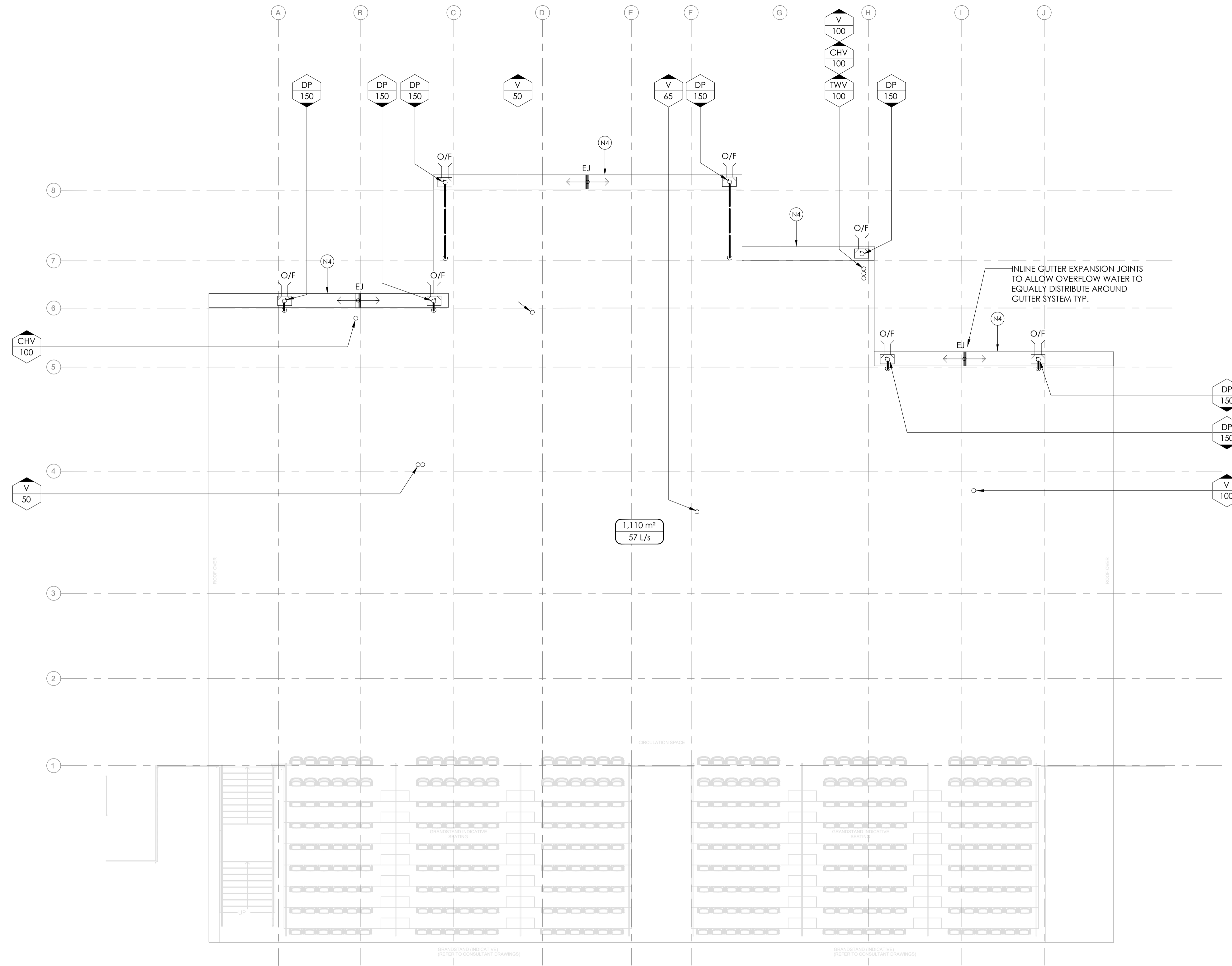


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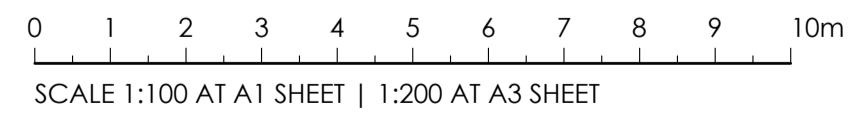
DRAWING TITLE  
**HYDRAULIC SERVICES**  
**FIRST FLOOR PLAN**  
**PRESSURE LAYOUT**

PROJECT No. **TX17822.00** DRAWING No. **H4.02** ISSUE **A**



**ROOF PLAN**  
SCALE 1:100 AT A1

- NOTES**
- (N1) ALL WORKS TO COMPLY TO AS 3500 AND LOCAL AUTHORITIES REQUIREMENTS.
  - (N2) ALL VENTS TO TERMINATE TO ATMOSPHERE TO AS3500.2. (MIN. 150mm ABOVE ROOF LEVEL, MIN.3m HORIZONTALLY AND VERTICALLY FROM TRAFFICABLE ROOF DECK AND MIN. 5m FROM AN AIR INTAKE)
  - (N3) ALL DOWNPIPES ARE DN150 MINIMUM WITH MATERIALS AND COLOURS TO ARCHITECTS SPECIFICATION U.N.O.
  - (N4) 600 WIDE x 150 MIN. DEEP BOX GUTTER AT 1:100 GRADE TO DN150 OUTLETS WITHIN A 500x500x110 DEEP SUMP WITH 400Wx90H OVERFLOW SLOT TO DISCHARGE AT H/L THROUGH PARAPET
  - (N5) ALL PIPE SIZES INDICATED ON THE DRAWINGS ARE INTERNAL BORE DIAMETER, UNLESS NOTED OTHERWISE.



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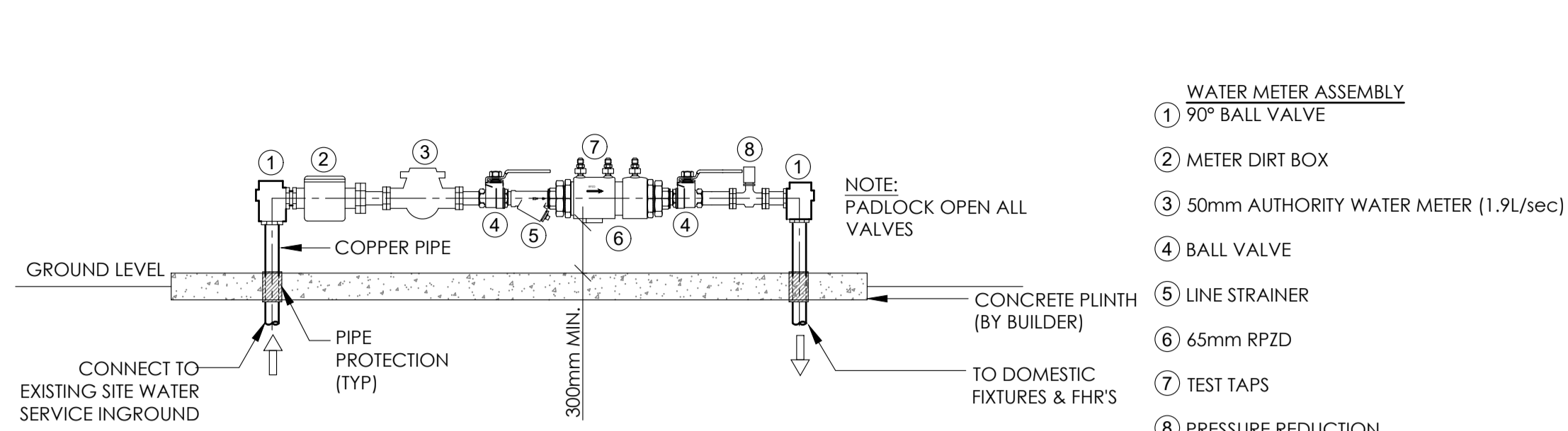


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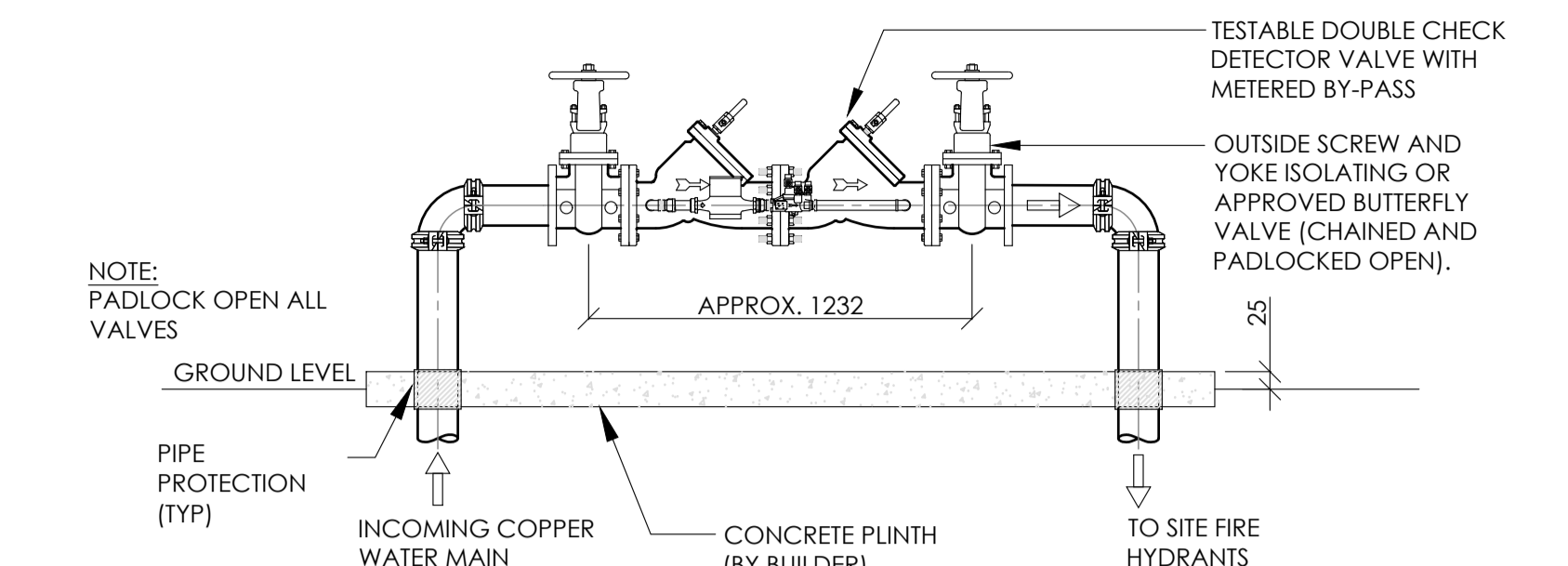
DRAWING TITLE  
**HYDRAULIC SERVICES  
ROOF PLAN**

PROJECT No. **TX17822.00**  
DRAWING No. **H5.01**  
ISSUE **A**

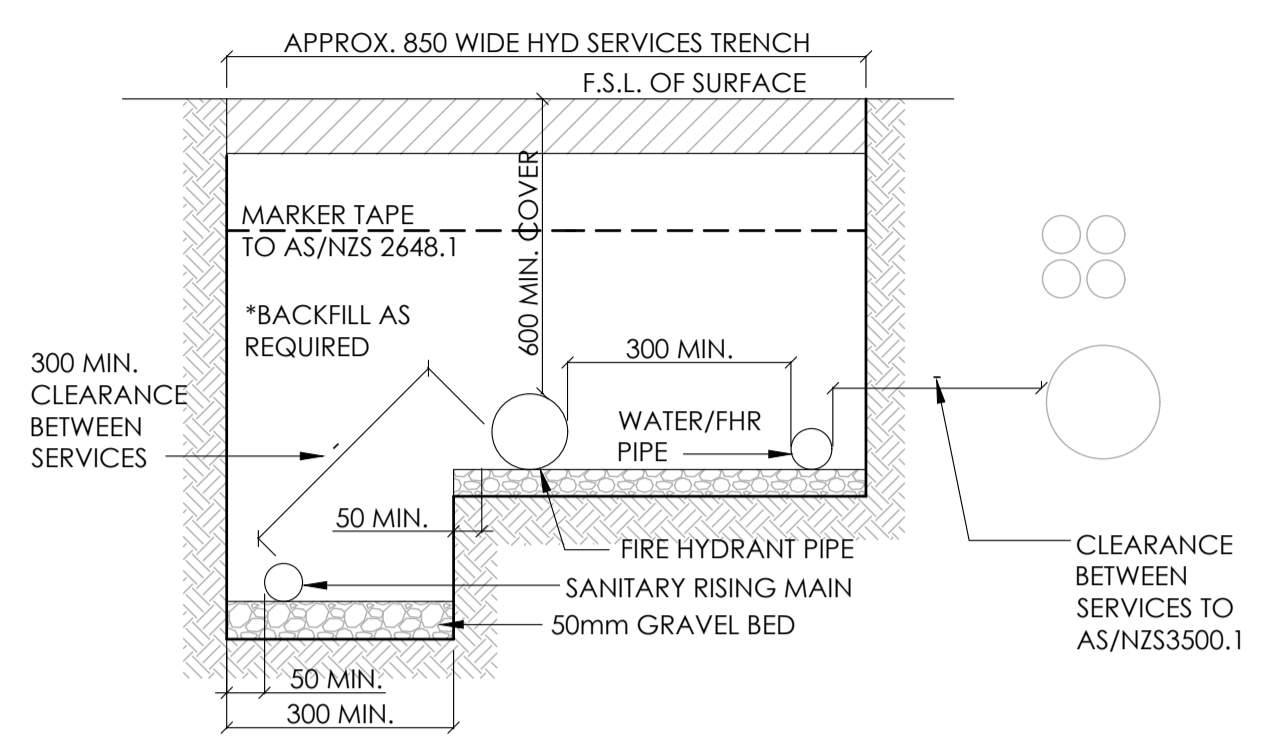




**D01 H2.01** TYPICAL WATER METER & RPZ ASSEMBLY  
(GUIDE ONLY)  
N.T.S.

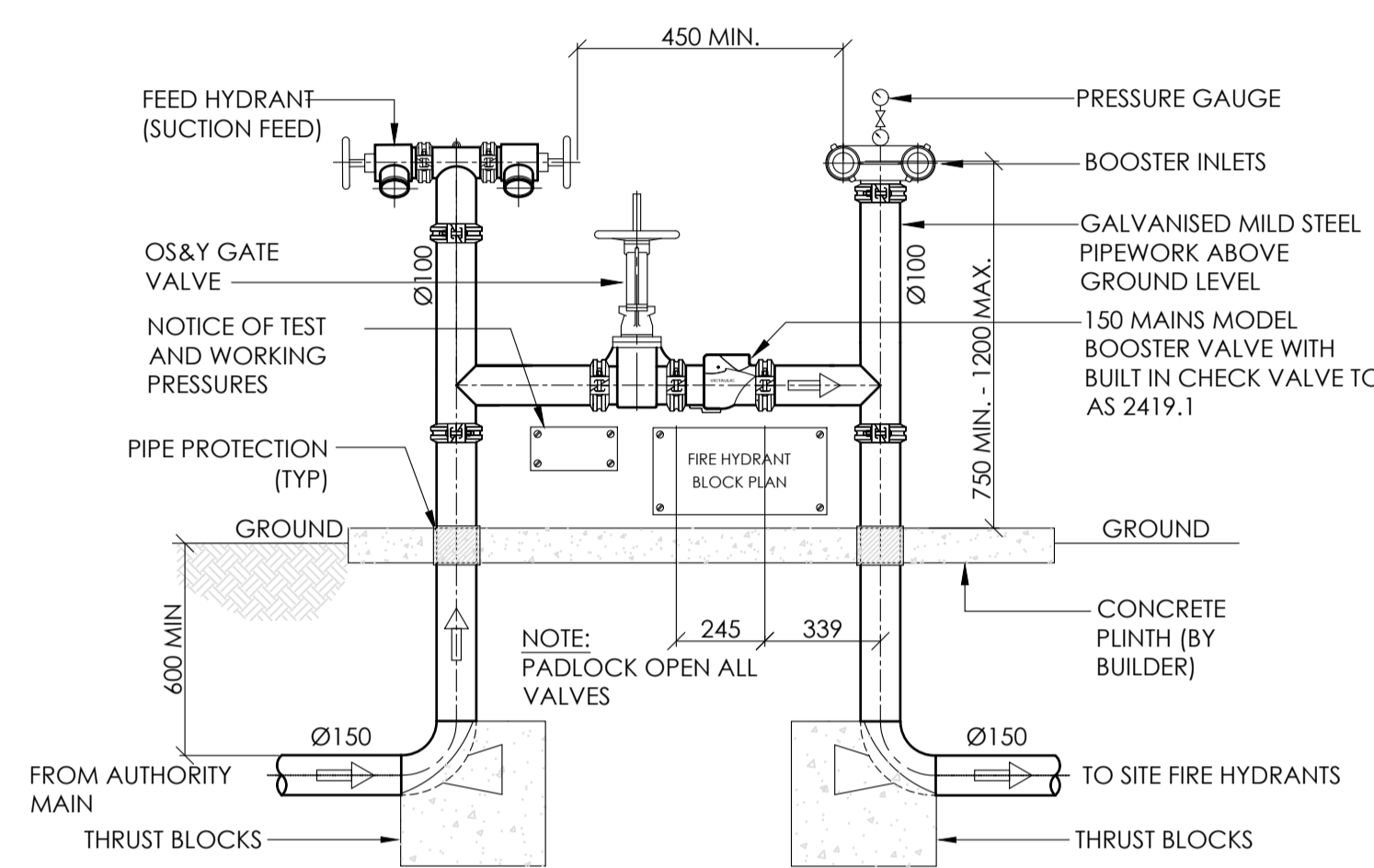


**D01 H2.01** Ø150NB ROLL GROOVED DOUBLE CHECK DETECTOR ASSEMBLY  
N.T.S.



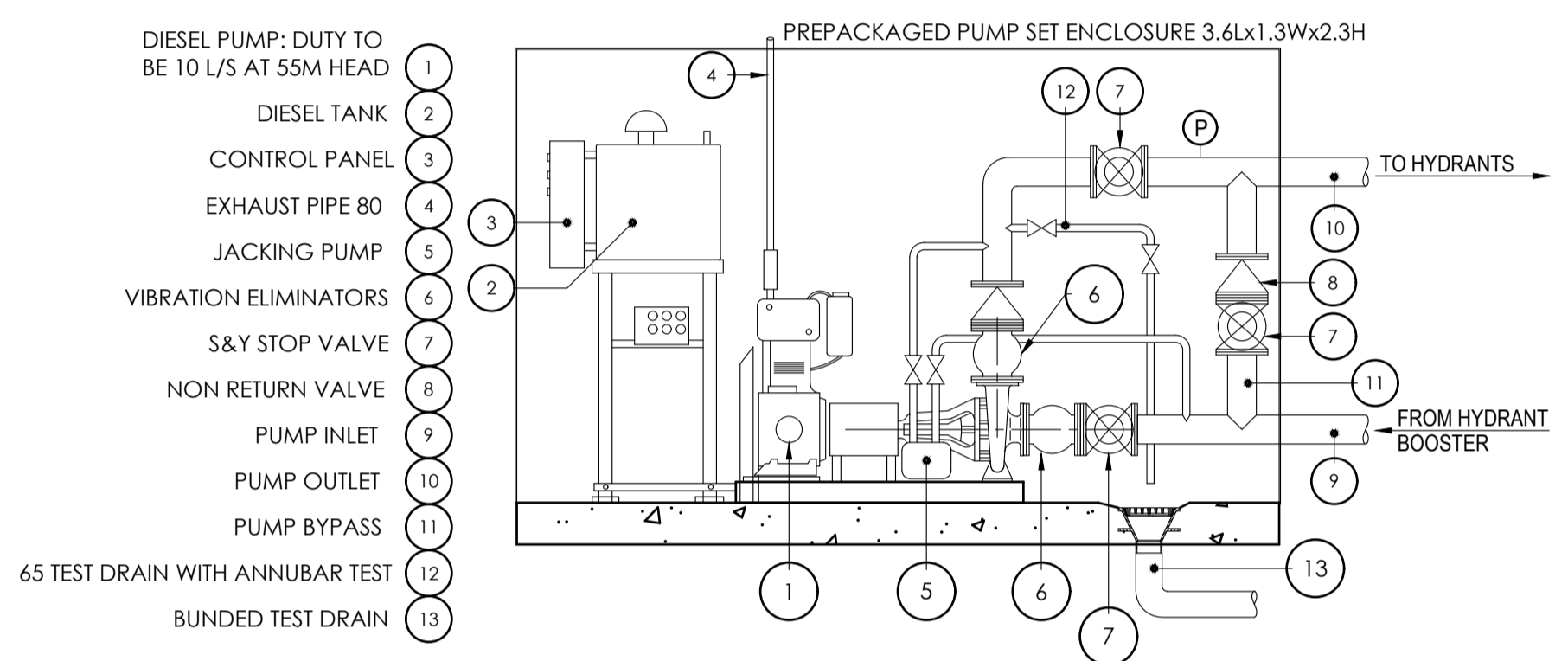
**A H2.01** TYPICAL SHARED TRENCH - HORIZONTAL INSTALLATION  
N.T.S.

NOTE: INSTALLATION TO COMPLY WITH AS/NZS3500. SIZES AS PER DRAWINGS.



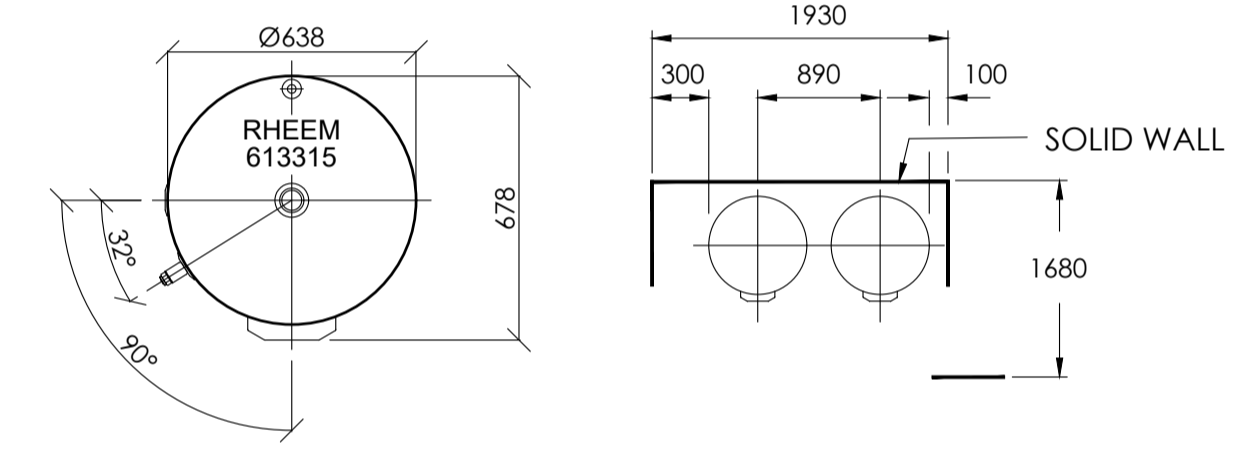
**D02 H2.01** Ø150NB (2-POINT) FIRE HYDRANT BOOSTER ASSEMBLY DETAIL  
N.T.S.

- NOTE:
- PROVIDE THRUST BLOCKS AS NECESSARY
  - PROVIDE ADEQUATE COVER TO PIPEWORK BELOW GROUND
  - PAINT ALL PIPEWORK & FITTINGS RED TO AS1345
  - ALL ISOLATION VALVES TO BE LOCKED IN THE OPEN POSITION.
  - ALL PIPEWORK FLANGES, NUTS, BOLTS ETC. TO BE HOT DIPPED GALVANISED.

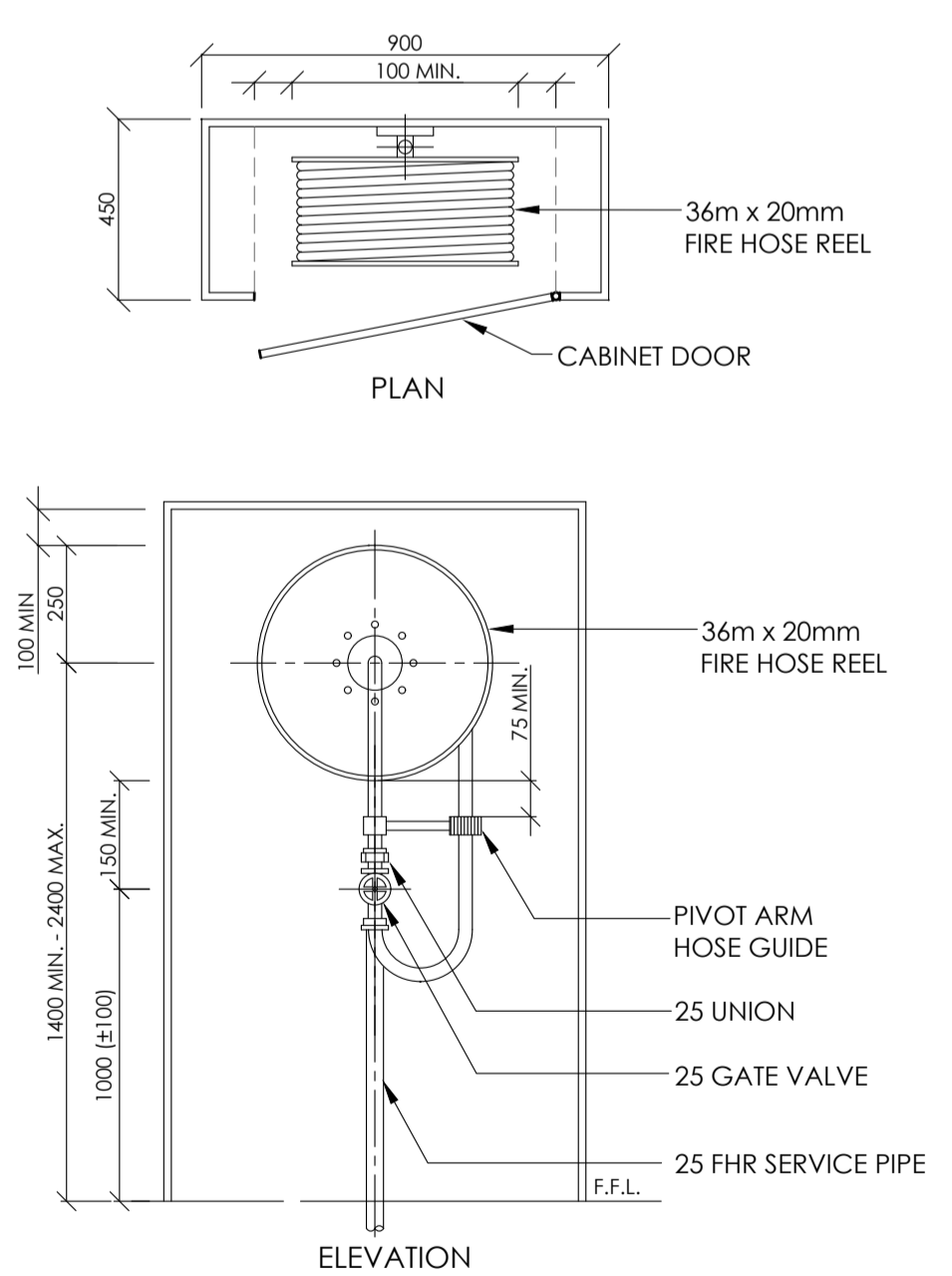


**D03 H2.01** DIESEL FIRE HYDRANT BOOSTER PUMP DETAIL  
N.T.S.

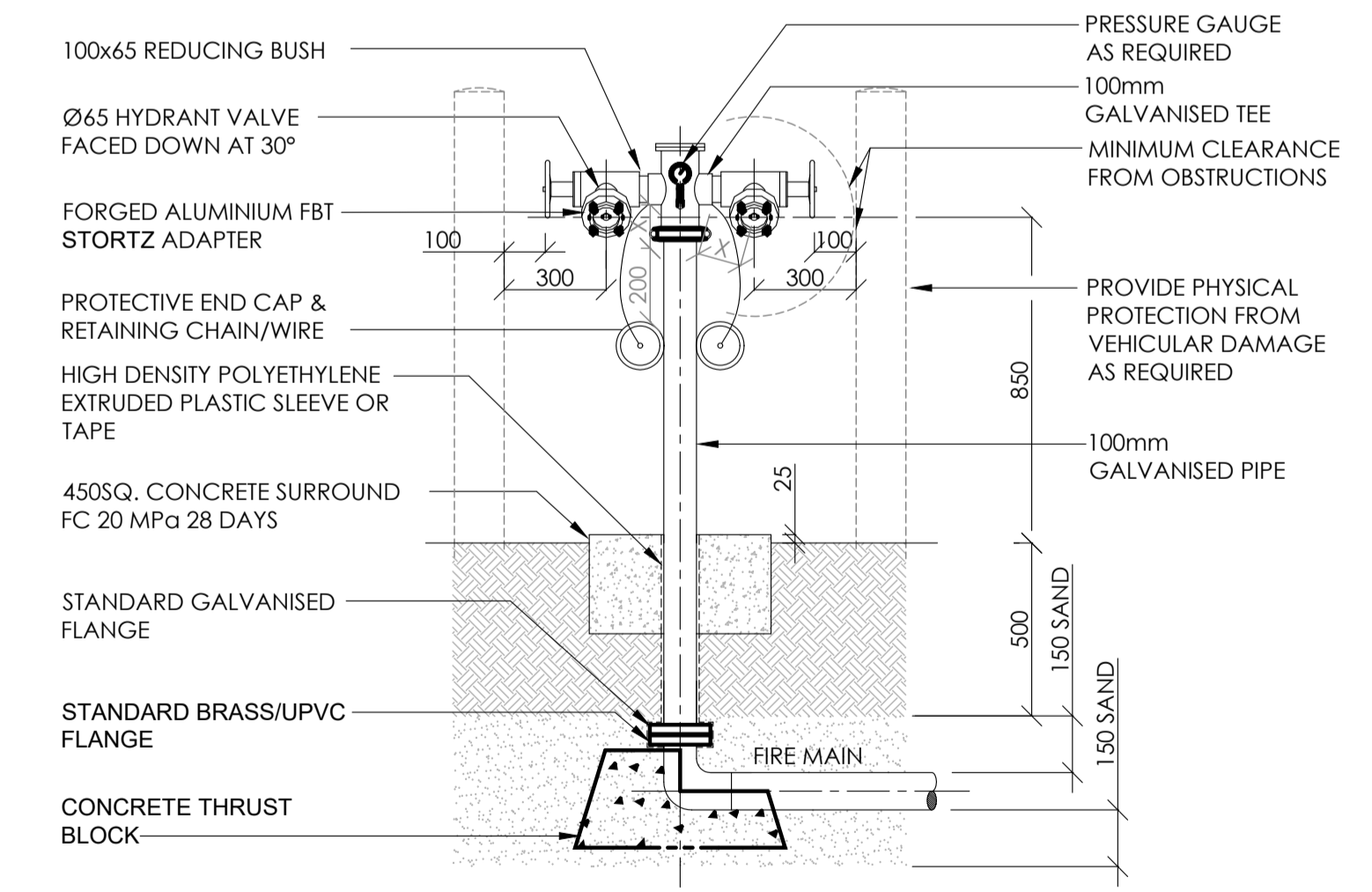
NOTE: TO BE INSTALLED AS PER A.S.2419 AND MANUFACTURES DETAILS



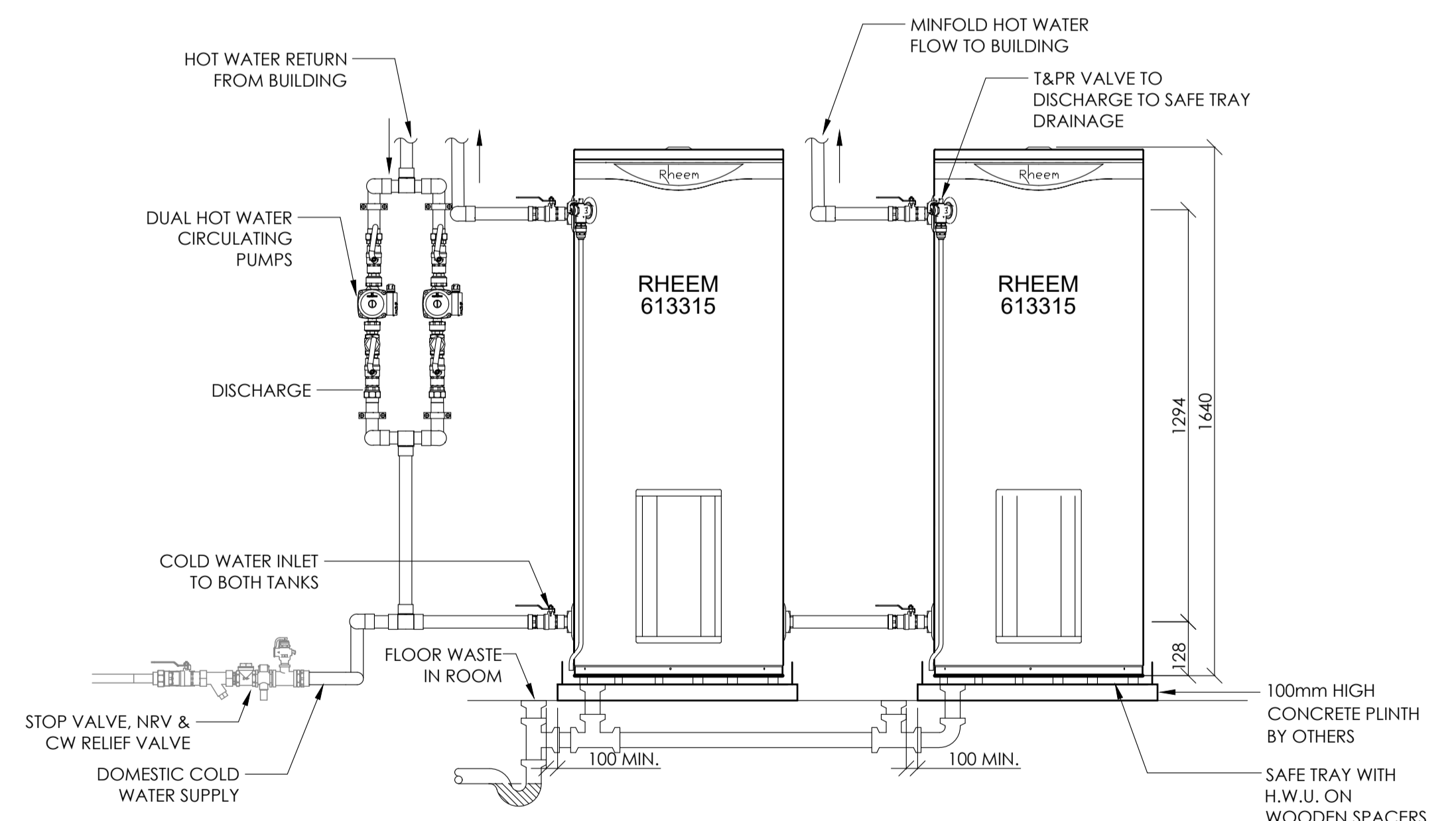
- NOTES:
- N1. MINIMUM SPACE BETWEEN WALL AND BACK OF WATER HEATER IS 100mm.
  - N2. A MINIMUM OF 900mm SHOULD BE LEFT IN FRONT OF THE WATER HEATER FOR ACCESS, SERVICING AND WATER HEATER REMOVAL.
  - N3. ELEC. REQUIREMENTS:  
- 315L HWU - 240V AC 1Ph 3x3.6KW EACH  
- UPS 20-60N PUMPS - 240V AC 1Ph 50Amps



TYPICAL FIRE HOSE REEL DETAIL  
N.T.S.



TYPICAL DOUBLE PILLAR HYDRANT DETAIL  
N.T.S.



**D04 H4.01** RHEEM HEAVY DUTY ELECTRIC 315L - HOT WATER HEATER (2x613315)  
N.T.S.

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31 O'CONNELL ROAD  
OBERON NSW 2787

DESIGNED  
B.R.

DRAWN  
S.T.

DATE  
FEB 24

SIZE  
A1

CAD REF  
TX17822.00 H6.01

**TRIAxIAL**  
CONSULTING

COMPLEX PROBLEMS  
RESOLVED SIMPLY

1300 874 294 | TRIAXIAL.COM.AU

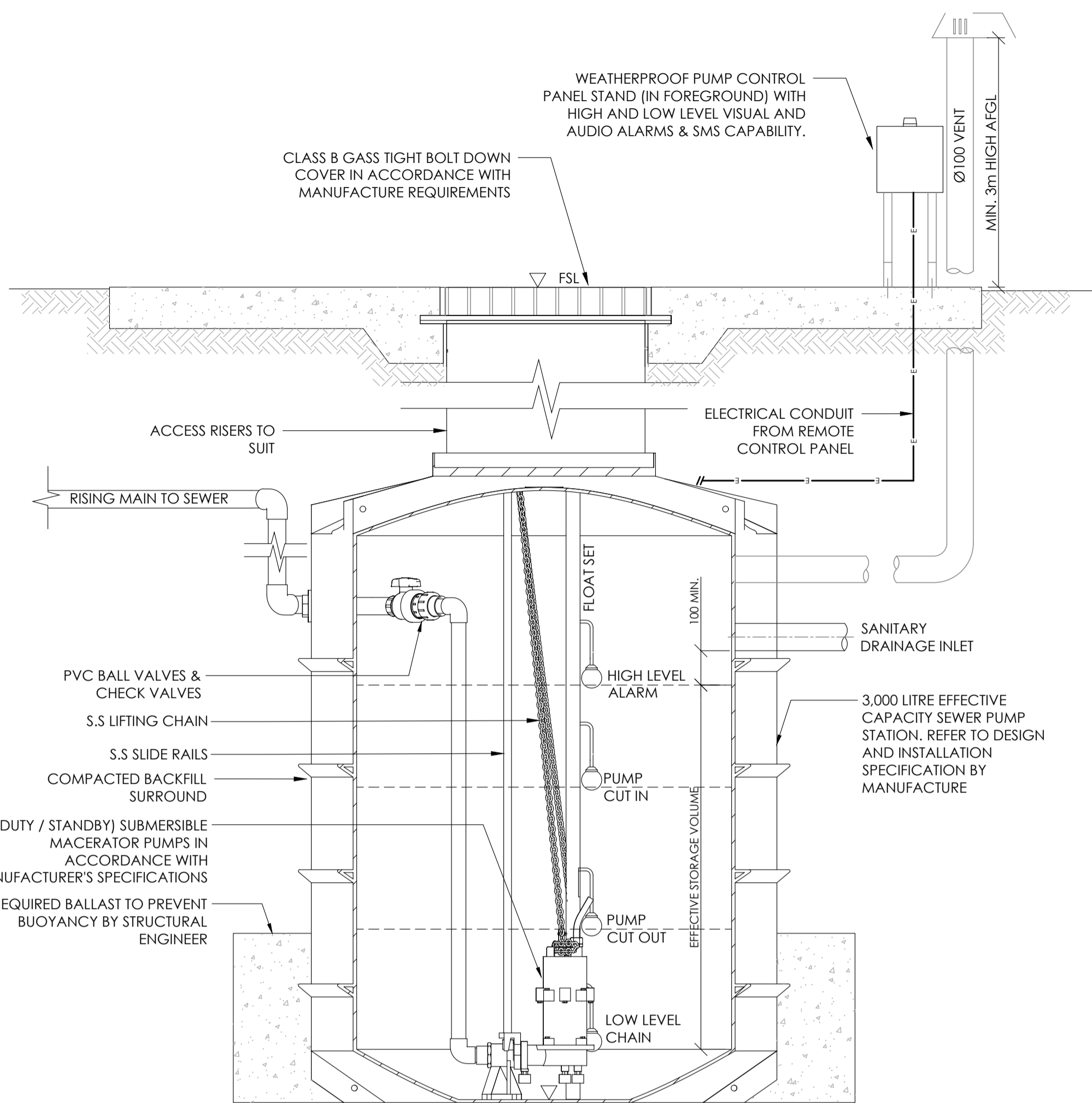
UNIT 1, 3 TEAMSTER CLOSE, TUGGERAH NSW 2259  
PO BOX 3197, TUGGERAH NSW 2259

DRAWING TITLE  
**HYDRAULIC SERVICES  
DETAIL SHEET**

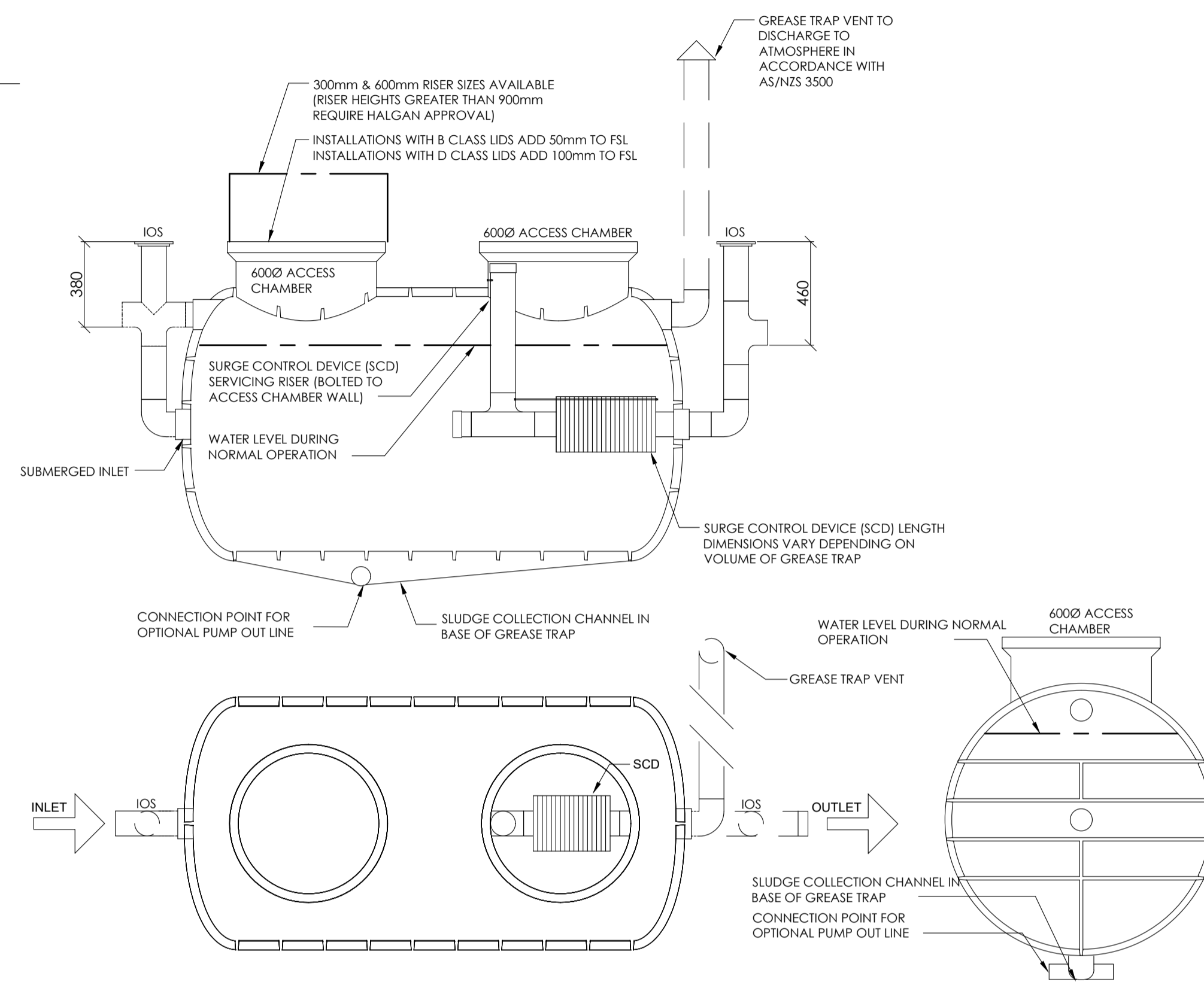
PROJECT No.  
**TX17822.00**

DRAWING No.  
**H6.01**

ISSUE  
**A**

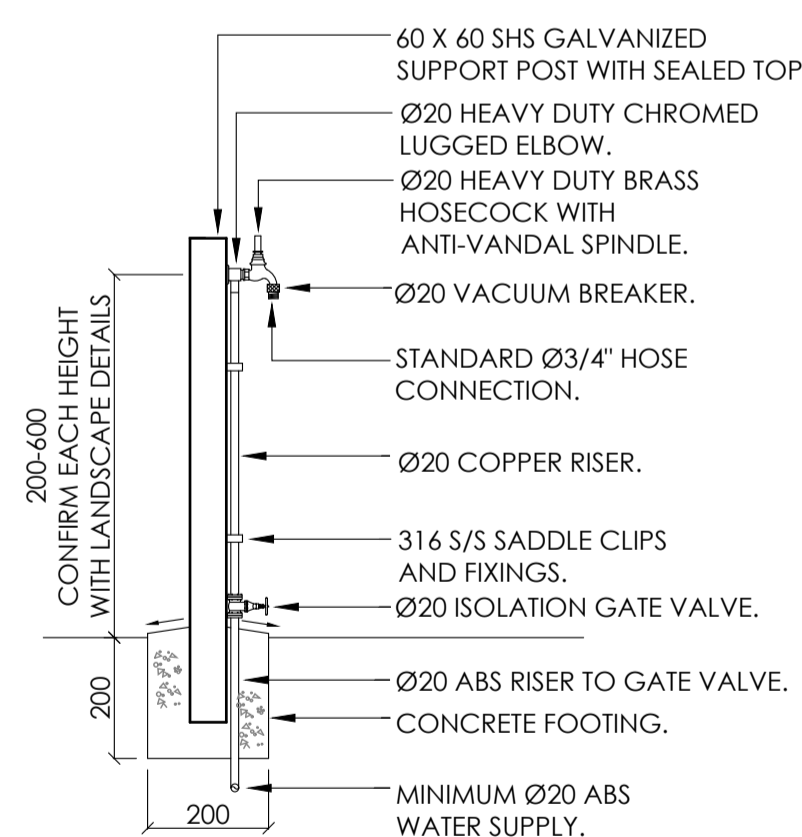


D05 H3.02  
**TYPICAL PUMPING STATION DETAIL (GUIDE ONLY)**  
 N.T.S.



D06 H3.02  
**1500L POLY GREASE ARRESTOR**  
 N.T.S.  
 HALGAN MODEL 'MGTS 1500'. INSTALLATION TO MANUFACTURERS REQUIREMENTS

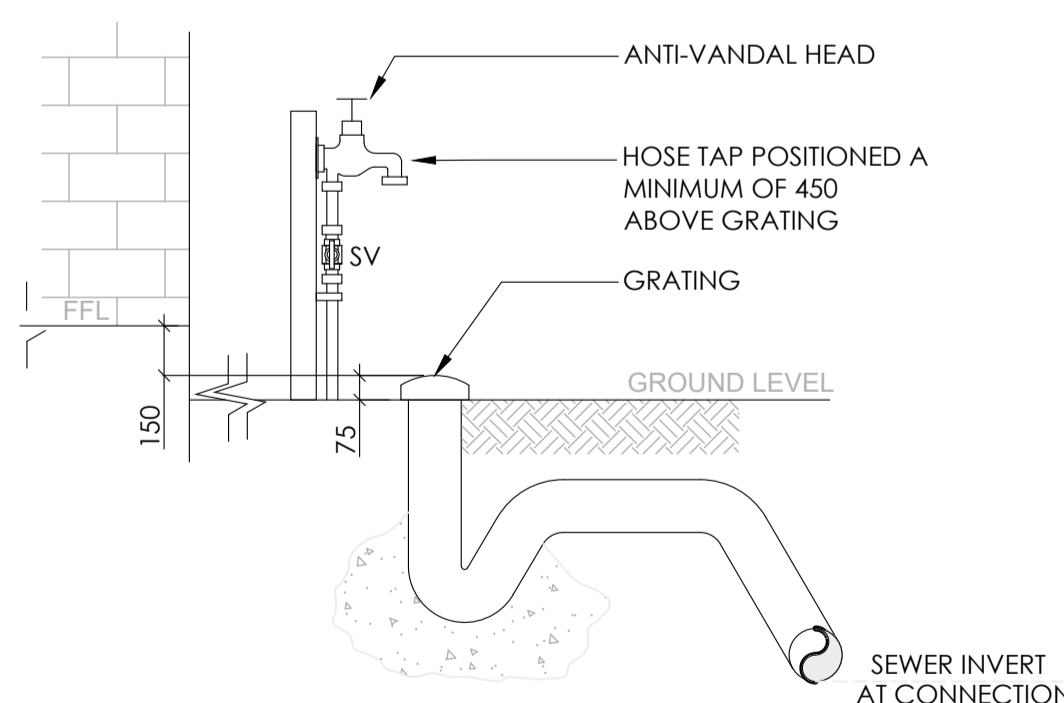
HALGAN MGTS 1500 GREASE TRAP DIMENSIONS DIMENSIONS DO NOT INCLUDE PIPEWORK OR ACCESS LIDS					
MODEL	HEIGHT	WIDTH	LENGTH	VOLUME	WEIGHT
MGTS 1500	1550mm	1130mm	2280mm	1500 L	125 KG



**TYPICAL POTABLE COLD WATER HOSE TAPS - EXTERNAL**  
 N.T.S.

**NOTES:**

1. PROVIDE CLIENT WITH 6 No. KEY HANDLES TO SUIT ANTI-VANDAL SPINDLES.
2. STANDARD T HEAD SPINDLE PROVIDED FOR UNITS. ALL HOSECOCKS ACCESSIBLE TO THE PUBLIC ARE ANTI-VANDAL AS SHOWN. ALL EXTERNAL HOSECOCK LOCATIONS CONFIRMED WITH ARCHITECTURAL DETAILS AND CONCEALED FROM PUBLIC VIEW.



D07 H3.02  
**TYPICAL POSITIONING OF UNIT OVERFLOW RELIEF GULLY**  
 N.T.S.

FIRE HYDRANT SERVICE DESIGN CALCULATIONS	
PRESSURE REQUIRED	700 kPa
FLOW REQUIRED	10L/s
AVAILABLE PRESSURE	300 kPa
INDEX LENGTH	300m
HEADLOSS PIPES	75 kPa
HEADLOSS FITTINGS	15 kPa
STATIC HEAD	74 kPa
TOTAL HEAD LOSS	16 kPa
PRESSURE AT MOST DISADVANTAGED HYDRANT	284 kPa

A DIESEL PUMP IS REQUIRED RATED AT 10L/s @ 500kPa SAY 50mh

PRESSURE AND FLOW STATEMENT 18.10.2023						
STREET HYDRANT FLOW TEST REPORT						
Date:	O'Connell Rd Oberon	Hydrant Test Location:	In Front of Substation			
Date:	18th October 2023	Hydrant Pressure Gauge Local	Opposite GWD Earthmoving			
Meter:	M/Rosimeter	Point of Test				
Time of Test:	7:10am					
Control Data		Towns Mains		Electric Pump (Primary) @ Point of Test		Diesel Pump
Towns Mains	Pump Sets	TM - Point 1	TM - Point 2	EP - Point 1	EP - Point 2	DP - Point 1
Flow Rate (l/min)	Flow Rate (l/min)	Pressure (kPa)	Pressure (kPa)	Pressure (kPa)	Pressure (kPa)	Pressure (kPa)
0	400	400				
300	350	350				
600	305	305				
900	260	260				
1200	300					
1500	290					

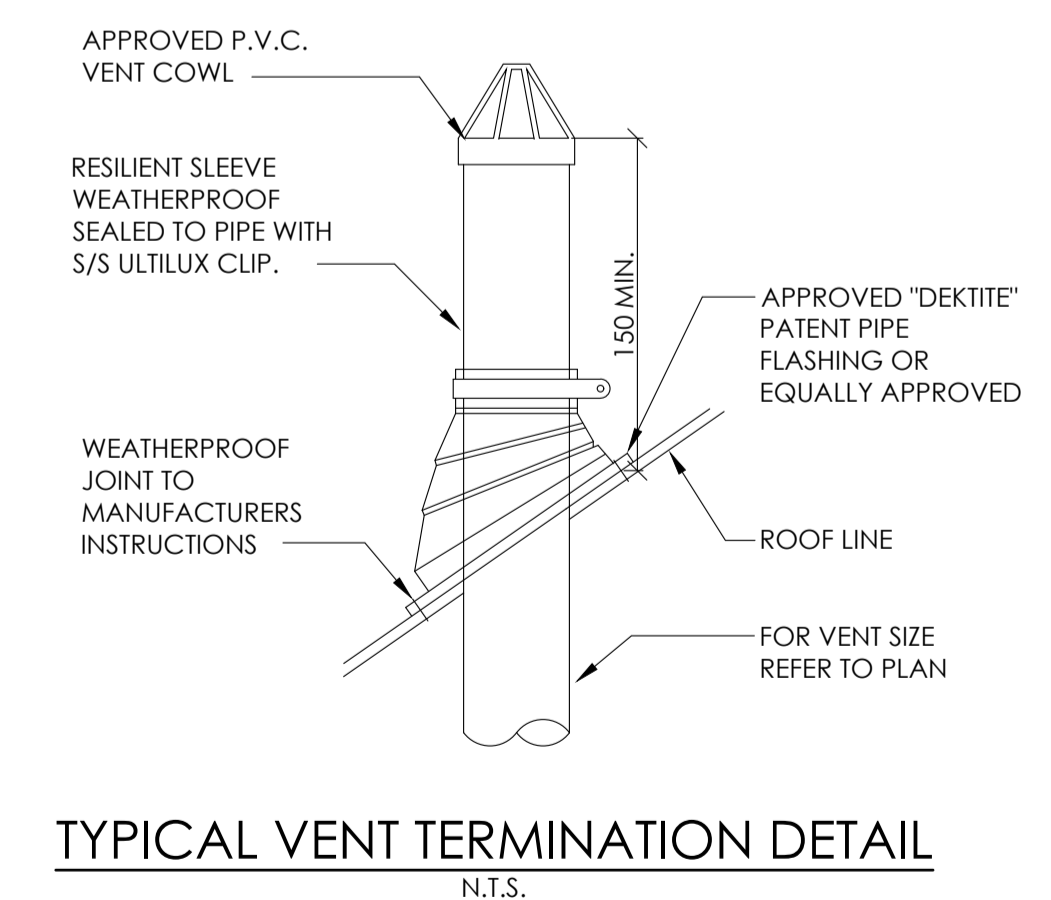
SEWER CALCULATIONS			
FIXTURE	No.	F.U.	TOTAL
BASIN	17	1	17
BIB TAPS (MISCELLANEOUS)	2	3	6
CLEANERS SINK	1	1	1
COMMERCIAL DW MACHINE	1	5	5
GLASS WASHING MACHINE	1	3	3
SHOWER	11	2	22
SINK/WASHING MACHINE	4	3	12
URINAL (WALL HUNG)	6	1	6
WATER CLOSET PAN (CISTERN)	17	4	68
<b>TOTALS</b>	<b>60</b>	<b>140</b>	<b>Ø100</b>

COLD WATER CALCULATIONS			
FIXTURE	No.	L.U.	TOTAL
BASIN	17	1	17
BIB TAPS (MISCELLANEOUS)	2	3	6
CLEANERS SINK	1	2	2
COMMERCIAL DW MACHINE	1	6	6
GLASS WASHING MACHINE	1	6	6
MAIN PRESSURE HEATER	1	8	8
SHOWER	11	2	22
SINK/WASHING MACHINE	4	3	12
URINAL	6	2	12
WATER CLOSET	17	2	34
FIRE HOSE REELS (2 MAX.)	3	18	+0.66
<b>TOTALS</b>	<b>64</b>	<b>125</b>	<b>1.90L/s Ø50</b>

DOMESTIC WATER/FHR DESIGN CALCULATIONS	
PRESSURE REQUIRED	250 kPa
FLOW REQUIRED	1.9L/s
AVAILABLE PRESSURE	400 kPa
INDEX LENGTH	325m
HEADLOSS PIPES	26 kPa
HEADLOSS FITTINGS	100 kPa
STATIC HEAD	-55 kPa
TOTAL HEAD LOSS	71 kPa
PRESSURE AT END FIXTURE	329 kPa
A PUMP IS NOT REQUIRED	

FIRE SERVICE REQUIREMENTS	
FLOOR AREA OF FIRE COMP.	1,550m <sup>2</sup>
CLASS OF BUILDING	6
FHR REQUIRED	YES
FH COVERAGE REQUIRED	YES (EXTERNAL)
BUILDING SPRINKLERED	NO
FLOW REQUIRED	10L/s (PUMPED)
FLOW REQUIRED AT BOOSTER	20L/s
PRESSURE REQUIRED	700 kPa

**NOTE: THESE TABLES AND CALCULATIONS DESIGN RESULTS ARE FOR CALCULATION PURPOSES ONLY AND ARE NOT FOR BILL OF QUANTITIES PURPOSES.**



**TYPICAL VENT TERMINATION DETAIL**  
 N.T.S.