Hydraulic Services Drawings

DRAWING SCHEDULE

DWG No.	DETAILS	REV	DATE
H0000	Drawing Schedule, Legends & Symbols, General Notes & Abbreviations	1	28OCT25
H0001	Equipment Schedule	1	28OCT25
Water Supply Layout			
H0010	Overall Site Plan - Water Supply Layout	1	28OCT25
H0100	Ground Floor - Water Supply Layout	1	28OCT25
H0200	First Floor - Water Supply Layout	1	28OCT25
H0300	Plant Yard - Enlarged Plan & Schematic Diagram	0	28OCT25
Drainage Layout			
H0110	Overall Site Plan - Drainage Layout And Invert Levels	1	28OCT25
H0110	Ground Floor - Drainage Layout	1	28OCT25
H0210	First Floor - Drainage Layout	1	28OCT25
H0310	Roof Level - Drainage Layout	1	28OCT25
Miscellaneous			
H-MISC-A	Miscellaneous Details-A	1	28OCT25
H-MISC-B	Miscellaneous Details-B	1	28OCT25
H-MISC-C	Miscellaneous Details-C	1	28OCT25

LEGENDS & SYMBOLS

- DCW — Domestic Cold Water Pipe (DCW)
- Rain Water Pipe (RW)
- WWP — Waste Water Pipe (WWP)
- SWP — Soil Waste Pipe (SWP)
- DVP — Drain Vent Pipe (DVP)
- IO — In Ground Inspection Opening
- Valve
- T.A/T.B — To Above / To Below
- Hose Bibb
- T.D — Tundish
- Flow Direction
- Isolation Valve/Gate Valve
- Check Valve
- GT — Gully Trap
- FD — Floor Drain

ABBREVIATIONS

DCW - Domestic Cold Water
T.B - To Below
T.A - To Above
F.A - From Above
F.B - From Below
U/S - Under Slab
DVP - Drain Vent Pipe
C/S - Ceiling Space
I/W - In Wall
FD - Floor Drain
GT - Gully Trap
UP - Up
DN - Down

WWP - Waste Water Pipe
SWP - Soil Waste Pipe
I.O - Inspection Opening
TD - Tundish Drain
A/S - Above Slab
CV - Check Valve
GV - Gate Valve
I/G - In Ground
TYP. - Typical
A/G - Above Ground
RW - Rain Water
DP - Down Pipe

GENERAL NOTES:

1. ALL EXPOSED OR ABOVE GROUND FLOOR WATER SUPPLY PIPE WORK TO THE FIRE HOSE REEL TO BE GALVANIZED PIPES.
2. ALL FITTINGS AND ACCESSORIES THAT ARE NECESSARY FOR THE COMPLETION OF THE PLUMBING WORKS TO BE INSTALLED BY THE HYDRAULIC CONTRACTOR.
3. ALL SOIL & WASTE PIPE SHOWN ON THE DRAWINGS SHALL BE ROUTED BELOW THE FLOOR SLAB OF THE RESPECTIVE PLAN UNLESS SPECIFIED.
4. ALL VENT PIPES SHOWN ON THE DRAWINGS SHALL BE AT HIGH LEVEL OR INSIDE CEILING OF THE RESPECTIVE PLANS UNLESS SPECIFIED OTHERWISE.
5. ALL BRANCH VENTS SHALL BE Ø50 UNLESS SPECIFIED OTHERWISE.
6. ALL PLUMBING WORKS SHALL COMPLY WITH THE PUBLIC HEALTH (NATIONAL BUILDING CODE) REGULATION OF SOLOMON ISLANDS 2022.
7. ALL INSTALLATION OF PIPE WORKS SHALL COMPLY WITH THE AS/NZS 3500 PLUMBING & DRAINAGE CODE.
8. ALL PIPES SHOWN ARE IN NOMINAL DIAMETER AND IN MILLIMETERS OR OTHERWISE SPECIFIED.
9. NOISE / VIBRATION CONTROL FOR EQUIPMENT SHALL BE PROVIDED (E.G. RUBBER PADS, SPRING ISOLATION, ETC).
10. ALL DRAINAGE PIPE WORK INSTALLATIONS ARE TO COMPLY WITH THE MINIMUM GRADE OF DRAIN PIPES.
11. AIR ADMITTANCE VALVES (AAV) SHALL COMPLY WITH AS/NZS 4936 AND SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION FOR MAINTENANCE PURPOSES
12. DOMESTIC WATER PIPE WORKS FOR BOTH COLD & HOT WATER SYSTEM TO BE CROSS-LINKED POLYETHYLENE PEX-B PIPE WORKS OR APPROVED EQUAL.
13. SANITARY, WASTE & VENT PIPEWORK SHALL BE UPVC PIPES & FITTINGS FOR SANITARY APPLICATIONS.
14. ALL KITCHEN DRAINAGE PIPES SHALL BE GEBERIT HDPE GREASE RESISTANCE PIPE.
15. ALL PIPES AND SERVICES PENETRATIONS THROUGH FIRE COMPARTMENTS SHALL HAVE FIRE SEALANTS/FIRE COLLARS/FIRE DAMPERS. THESE SHALL BE SIMILAR TO HILTI OR FIRE STOPPING OR APPROVED EQUAL.
16. PIPE MATERIAL TO BE SIMILAR OR COMPATIBLE WITH EXISTING SERVICES.

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Project Title
MFMR AUKI - MALAITA PROVINCE
AUKI-MALAITA PROVINCE
SOLOMON ISLANDS

Drawing Title
HYDRAULIC SERVICES
DRAWING SCHEDULE, LEGENDS & SYMBOLS, GENERAL NOTES & ABBREVIATIONS

Revision	Date	Initial	Description
1	28OCT25	PAT	TENDER ISSUE
0	21JUL25	PAT	DRAFT PERMIT ISSUE

Designed	KL
Drawn	KL
Checked	SA/PM
Approved	PAT
Date	JULY 2025
A3 Scale	NTS
A2(NTS)	
A1(NTS)	
Project Number	P25-30
Drawing No	H0000
sheet	A3
Revision No	1

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.

DOMESTIC COLD WATER PUMP SCHEDULE

MARK	EQUIPMENT NAME	SERVICE/ LOCATION	No. of Pumps (standby/duty)	DESIGN FLOW (L/S)	HEAD (M)	POWER RATING/ PHASE (kW/ϕ)	VOLTAGE	REMARKS
DCWP 1&2	DOMESTIC COLD WATER PUMP	DOMESTIC COLD WATER SUPPLY/ PUMP ROOM	1/1	1.90	45	4.0kW/3ϕ	380–415	GRUNDFOS HYDRO MULTI–E 2 CME 10–3 50Hz OR APPROVED EQUAL.
RWP 1&2	RAIN WATER PUMP	RAIN WATER SUPPLY/ PUMP SHED	1/1	0.6	30	1.1kW/1ϕ	200–240	GRUNDFOS CMBE TWIN 3–62 I–U–C–E–D–A 50Hz OR APPROVED EQUAL.

WATER TANK SCHEDULE

MARK	EQUIPMENT NAME	SERVICE/ LOCATION	CAPACITY (L)	DIMENSIONS		REMARKS
				DIAMETER (MM)	HEIGHT (MM)	
WT 1&2	WATER TANK	DOMESTIC COLD WATER STORAGE/ PLANT YARD	5,300 (EACH)	1800	2480	ROTOMOULD 5,300L STORAGE TANK OR APPROVED EQUAL
RWT 1	RAIN WATER TANK	RAIN WATER STORAGE/ PLANT YARD	5,300	1800	2480	ROTOMOULD 5,300L STORAGE TANK OR APPROVED EQUAL
RWT 2	RAIN WATER TANK	RAW WATER STORAGE/ PLANT YARD	2,000	1440	1300	ROTOMOULD 2,000L STORAGE TANK OR APPROVED EQUAL

MEDIA WATER FILTER SCHEDULE

MARK	EQUIPMENT NAME	SERVICE/ LOCATION	No. of Pumps (standby/duty)	DESIGN FLOW (L/S)	DIMENSIONS		POWER RATING/ PHASE (kW/ϕ)	REMARKS
					DIAMETER (MM)	HEIGHT (MM)		
MWF 1–3	MEDIA WATER FILTER	WATER FILTRATION/ PUMP SHED	2/1	1.16 (EACH)	305 (EACH)	1320 (EACH)	2.4kW/1ϕ (EACH)	DAVEY EAFN12 AUTOMATIC MEDIA FILTER OR APPROVED EQUAL.

SEPTIC TANK SCHEDULE

MARK	EQUIPMENT NAME	SERVICE/ LOCATION	CAPACITY (L)	DIMENSIONS			REMARKS
				LENGTH (MM)	WIDTH (MM)	DEPTH (MM)	
ST 1	SEPTIC TANK	SEWER HOLDING TANK/ CAR PARK	2,500	3000	1000	2000	CONCRETE SEPTIC TANK

EQUIPMENT SCHEDULE

SCALE = NTS@A3

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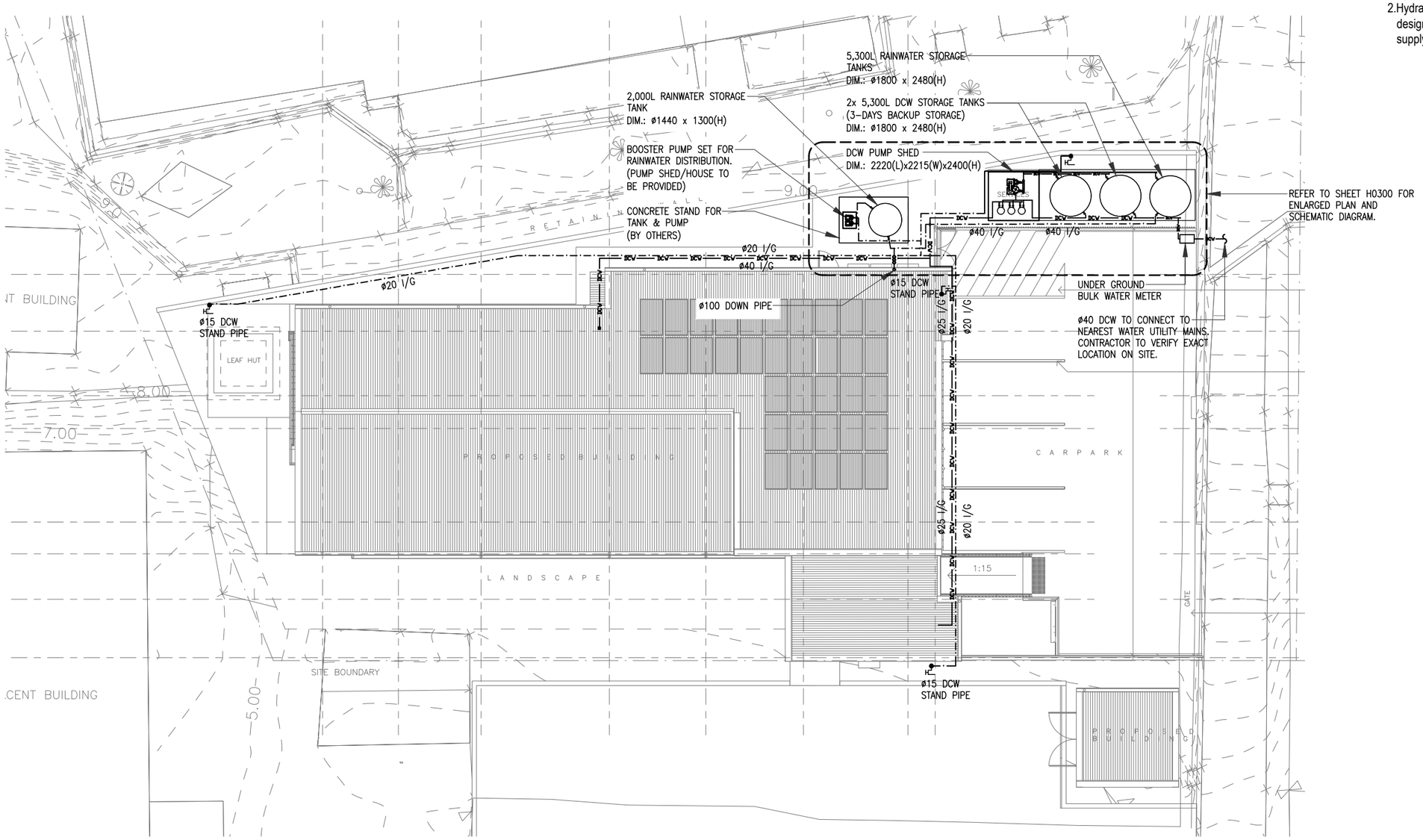
Drawing Title
HYDRAULIC SERVICES
EQUIPMENT SCHEDULE

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A2(NTS)	
A1(NTS)	

Project Number P25-30
Drawing No H0001
sheet A3
Revision No 1

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.
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OVERALL SITE PLAN - WATER SUPPLY LAYOUT

SCALE = 1:200@A3

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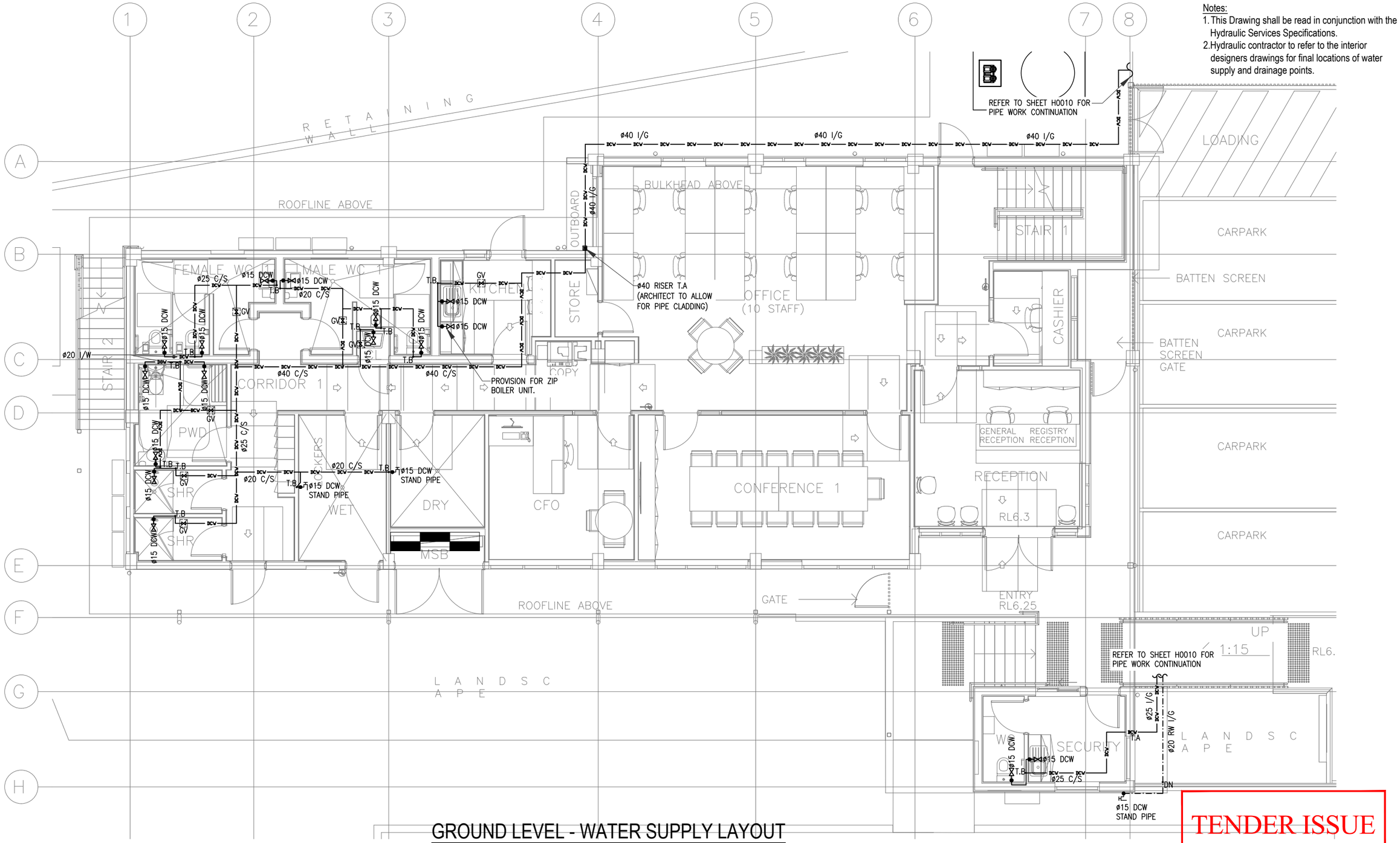
Drawing Title
HYDRAULIC SERVICES
OVERALL SITE PLAN
- WATER SUPPLY LAYOUT

Revision	Date	Initial	Description
1	28OCT25	PAT	TENDER ISSUE
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A2(NTS)	
A1(NTS)	

Project Number: P25-30
Drawing No: H0010
sheet: A3
Revision No: 1

Notes:
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GROUND LEVEL - WATER SUPPLY LAYOUT

SCALE = 1:100@A3

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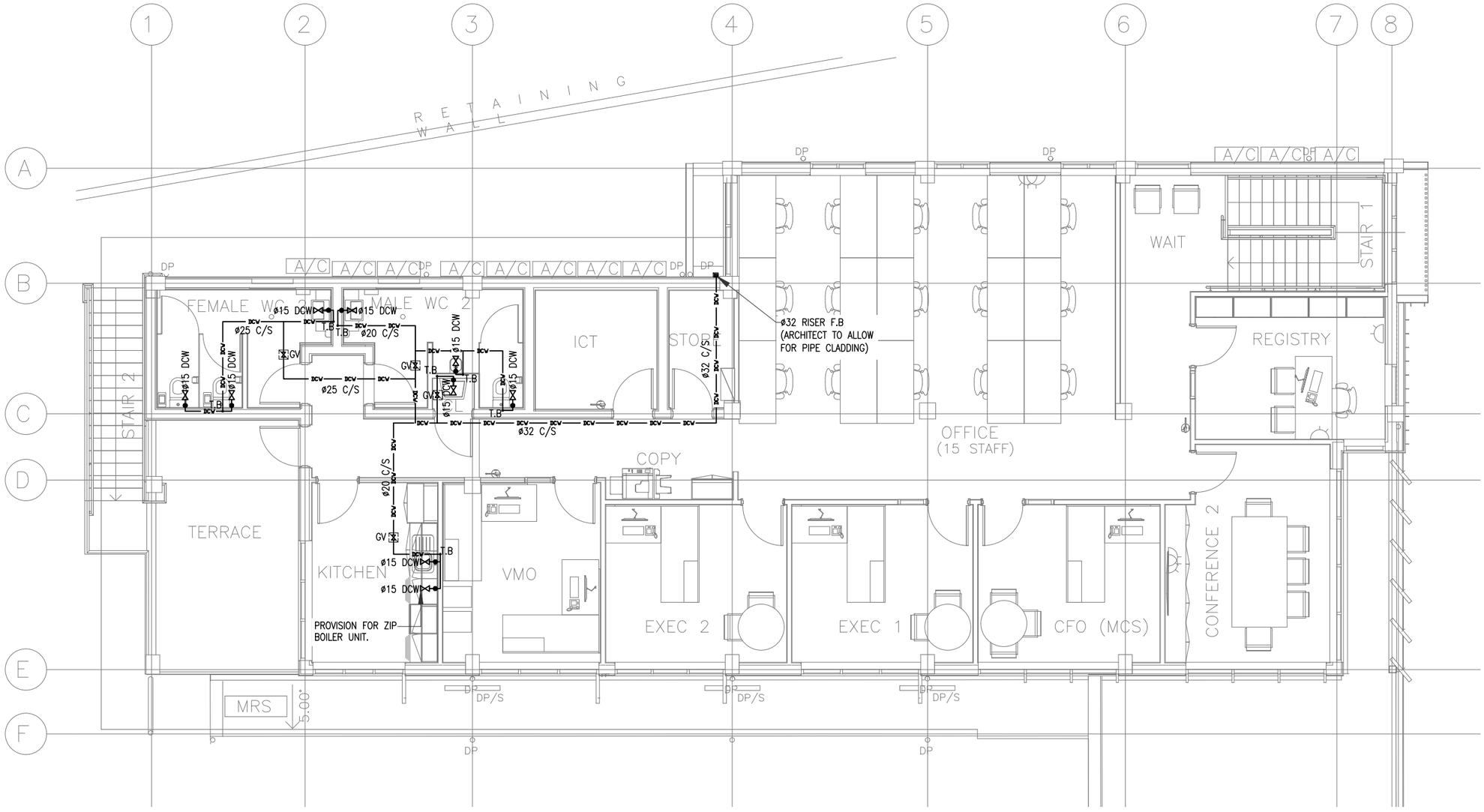
Drawing Title
HYDRAULIC SERVICES
GROUND FLOOR
- WATER SUPPLY LAYOUT

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A2(NTS)	
A1(NTS)	

Project Number: P25-30
Drawing No: H0100
sheet: A3
Revision No: 0

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.
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FIRST FLOOR - WATER SUPPLY LAYOUT

SCALE = 1:100@A3

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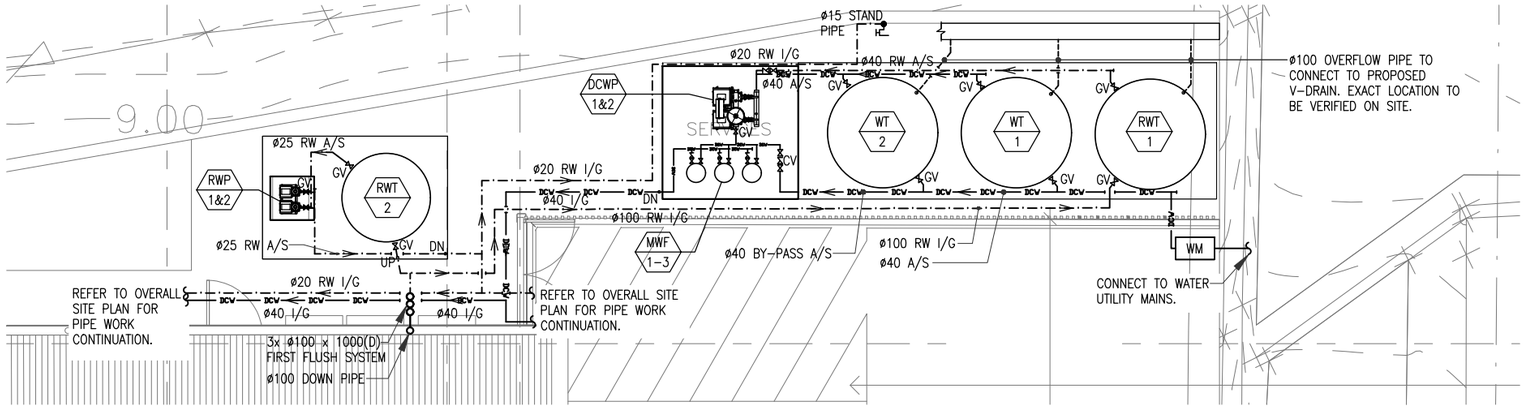
Project Title
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Drawing Title
HYDRAULIC SERVICES
FIRST FLOOR
- WATER SUPPLY LAYOUT

Revision	Date	Initial	Description
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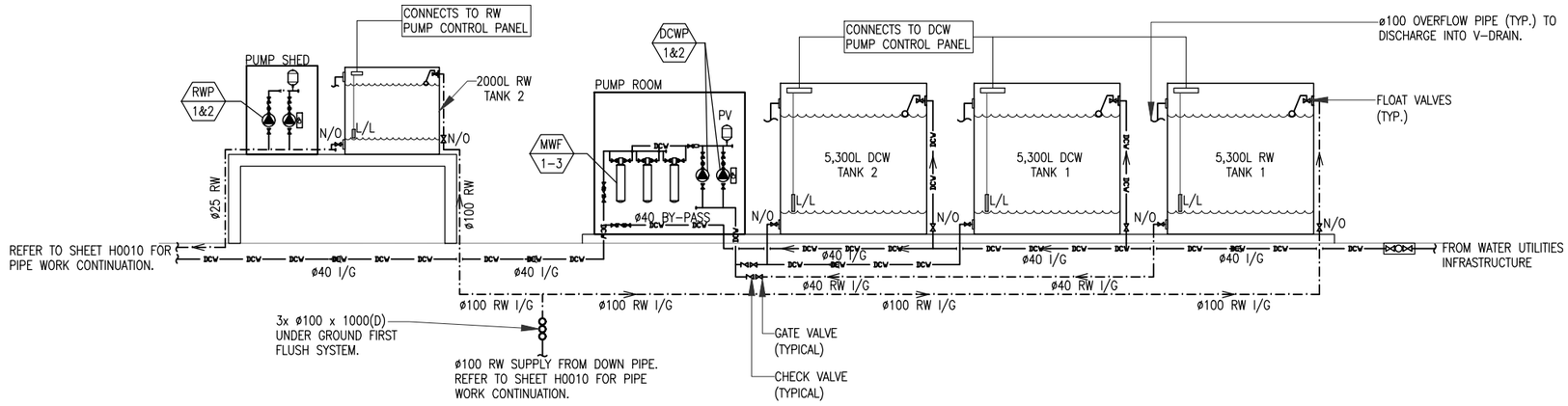
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A3 Scale	1:100
A2(NTS)	
A1(NTS)	
Project Number	P25-30
Drawing No	H0200
sheet	A3
Revision No	1

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.
2. Hydraulic contractor to refer to the interior designers drawings for final locations of water supply and drainage points.



PLANT YARD - ENLARGED PLAN

SCALE = 1:100@A3



PLANT YARD - SCHEMATIC DIAGRAM

SCALE = 1:100@A3

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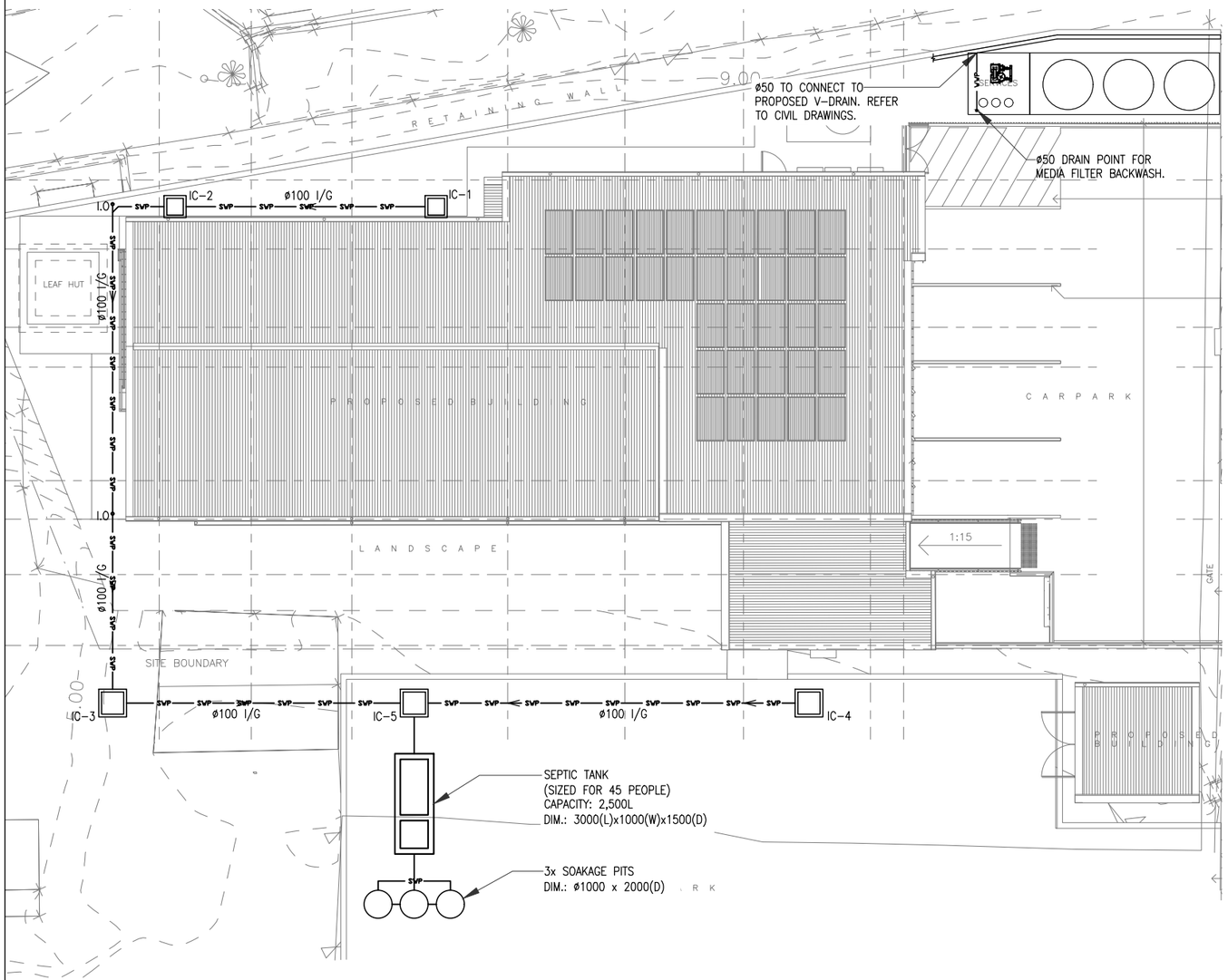
Drawing Title
HYDRAULIC SERVICES
PLANT YARD
- ENLARGED PLAN & SCHEMATIC DIAGRAM

Revision	Date	Initial	Description
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Project Number P25-30
Drawing No H0300
sheet A3
Revision No 0

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.
2. Hydraulic contractor to refer to the interior designers drawings for final locations of water supply and drainage points.



OVERALL SITE PLAN - DRAINAGE LAYOUT

SCALE = 1:200@A3

Inspection Chamber No. (IC-)	Lid Level (m)	Invert Level (m)	Inspection Chamber depth (m)
IC-1	6.11	5.56	0.55
IC-2	6.11	5.42	0.69
IC-3	5.00	3.69	1.31
IC-4	5.10	4.65	0.45
IC-5	5.10	3.53	1.57
IC-5 TO ST	5.10	3.51	1.59

INVERT LEVELS

SCALE = NTS@A3

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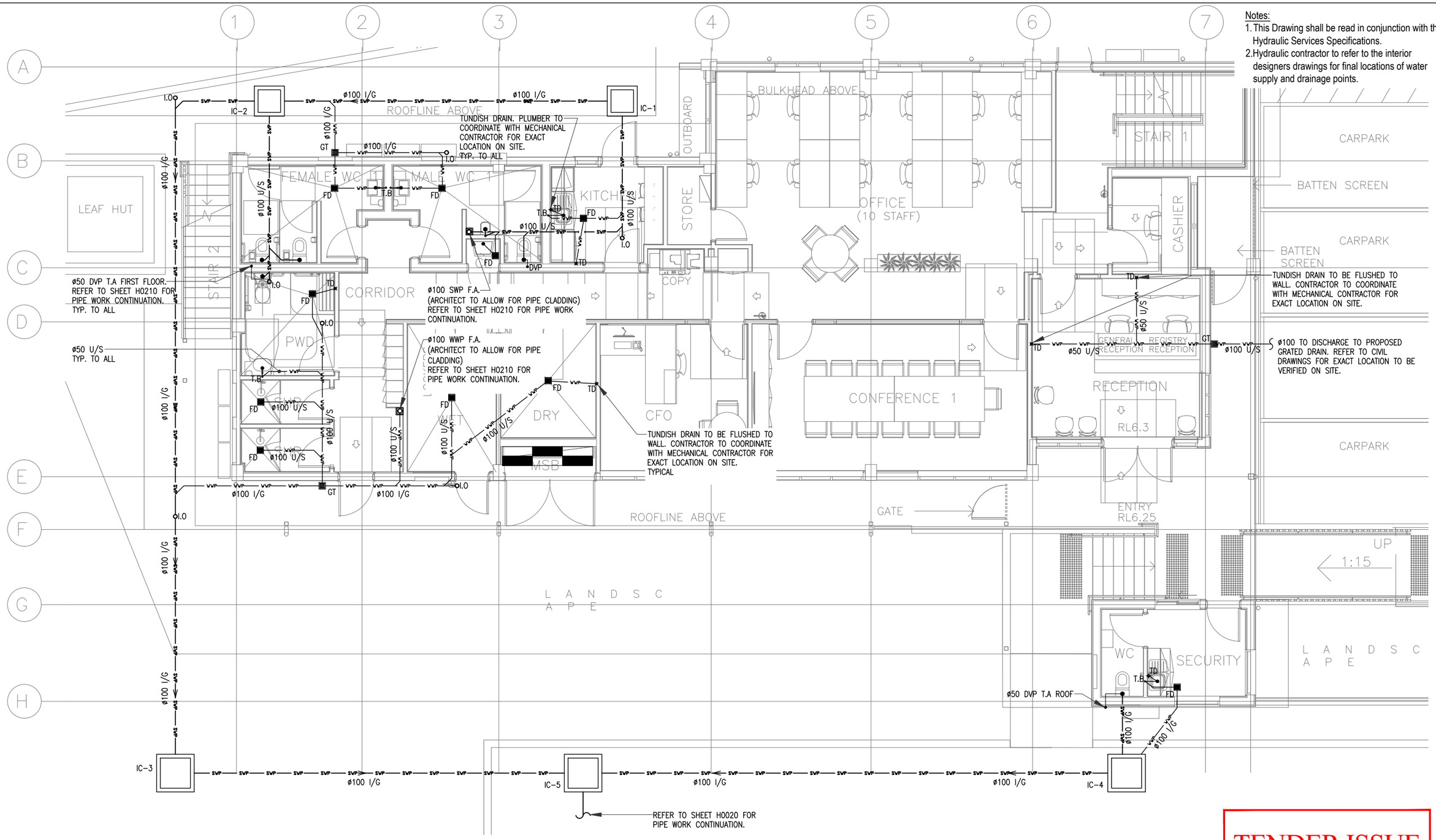
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MFMR AUKI - MALAITA PROVINCE
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SOLOMON ISLANDS

Drawing Title
HYDRAULIC SERVICES
OVERALL SITE PLAN
- DRAINAGE LAYOUT
AND INVERT LEVELS

Revision	Date	Initial	Description
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A2(NTS)	
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Project Number	P25-30
Drawing No	H0020
sheet	A3
Revision No	1

Notes:
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GROUND FLOOR - DRAINAGE LAYOUT

SCALE = 1:100@A3

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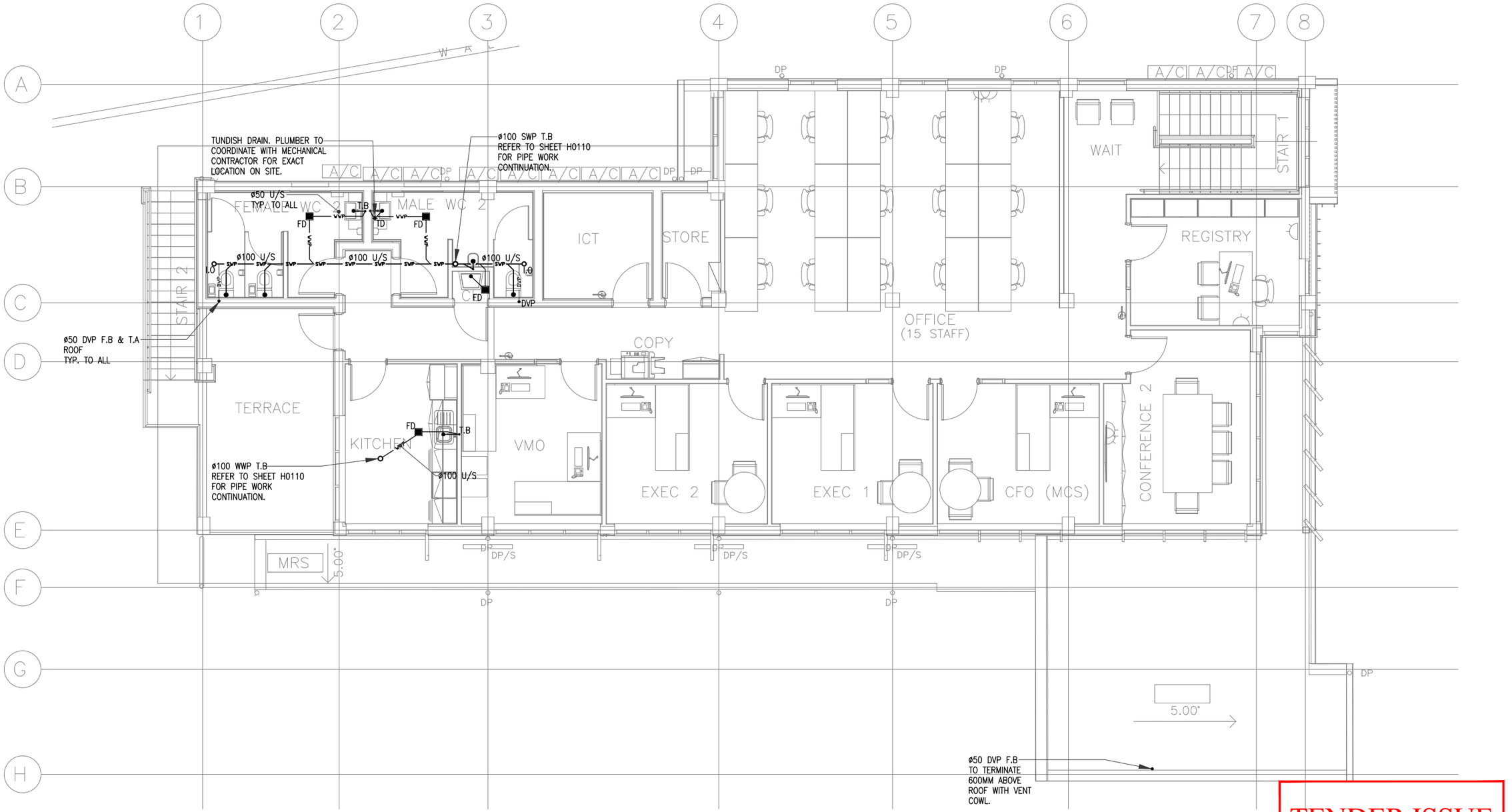
Drawing Title
HYDRAULIC SERVICES
GROUND FLOOR
- DRAINAGE LAYOUT

Revision	Date	Initial	Description
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A3 Scale	1:100
A2(NTS)	
A1(NTS)	

Project Number P25-30
Drawing No H0110
sheet A3
Revision No 1

Notes:
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FIRST FLOOR - DRAINAGE LAYOUT

SCALE = 1:100@A3

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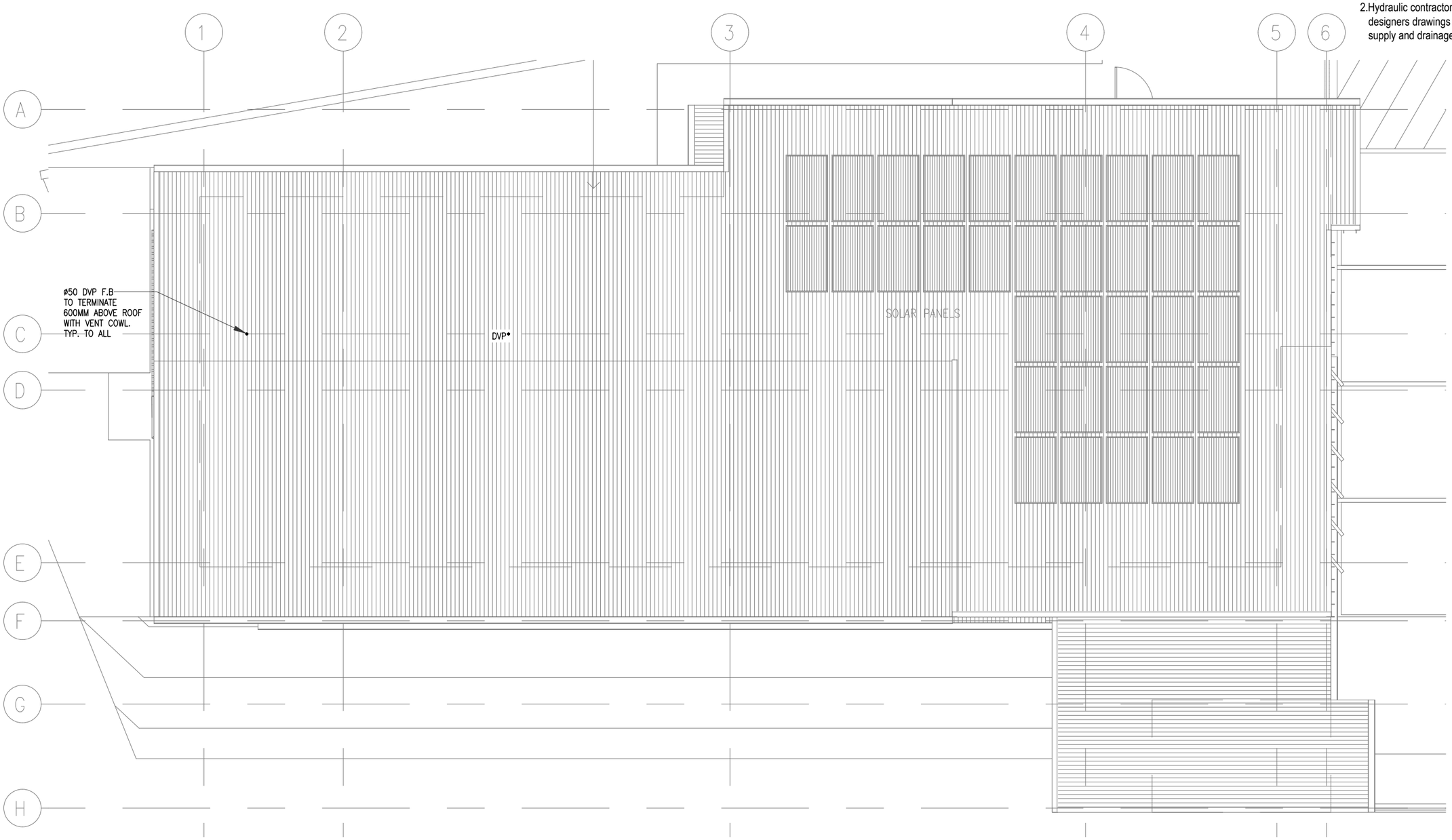
Drawing Title
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FIRST FLOOR
- DRAINAGE LAYOUT

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A2(NTS)	
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Project Number: P25-30
Drawing No: H0210
sheet: A3
Revision No: 1

Notes:
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ROOF LEVEL - DRAINAGE LAYOUT

SCALE = 1:100@A3

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AUKI-MALAITA PROVINCE
SOLOMON ISLANDS

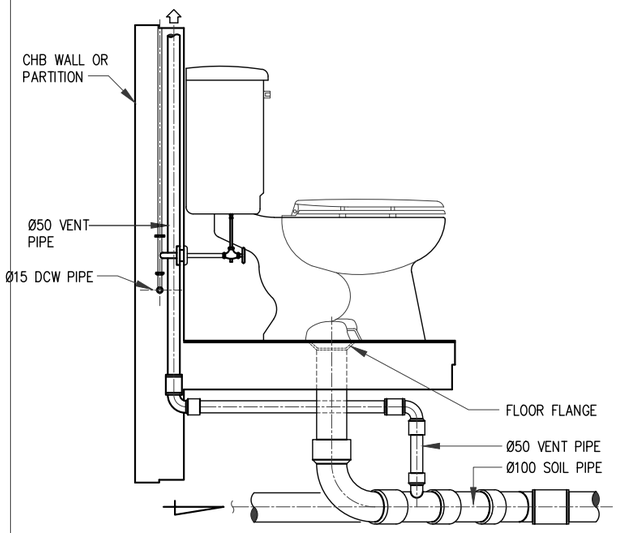
Drawing Title
HYDRAULIC SERVICES
ROOF LEVEL
- DRAINAGE LAYOUT

Revision	Date	Initial	Description
1	28OCT25	PAT	TENDER ISSUE
0	21JUL25	PAT	DRAFT PERMIT ISSUE

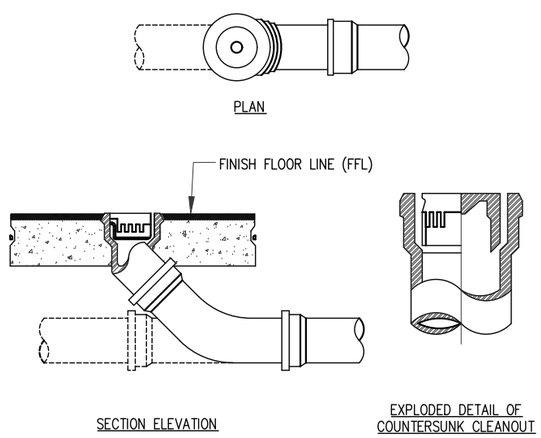
Designed	KL
Drawn	KL
Checked	SA/PM
Approved	PAT
Date	JULY 2025
A3 Scale	1:100
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A1(NTS)	

Project Number: P25-30
Drawing No: H0310
sheet: A3
Revision No: 1

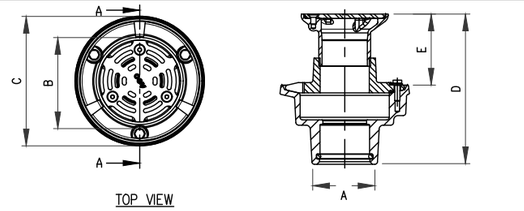
Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.



DETAIL OF WATER CLOSET MOUNTING
SCALE : NTS

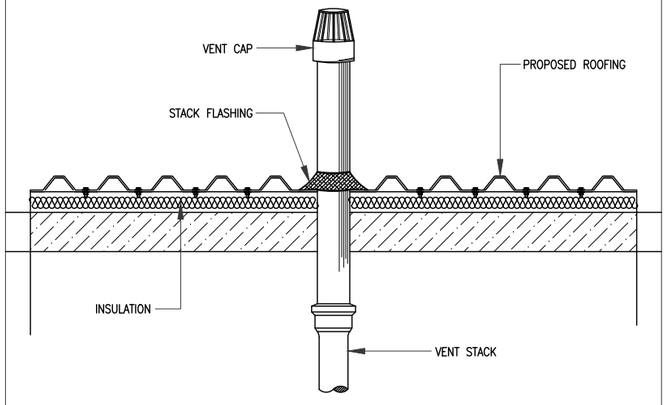


INSPECTION OPENING / FLOOR CLEAN OUT / RODDING POINT
SCALE : NTS

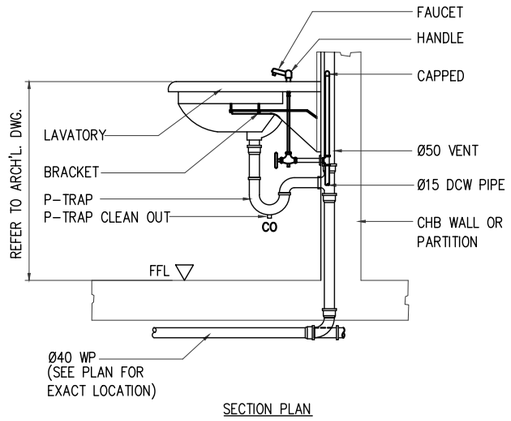


PIPE SIZE A(mm)	DIMENSION (M)				REMARKS
	B	C	D	D	
50	100	138	120–173	25–78	SIMILAR TO ACO WEXEL S–SERIES TYPE OR APPROVED EQUAL
100	150	209	137–180	30–73	
100	200	209	157–206	50–99	

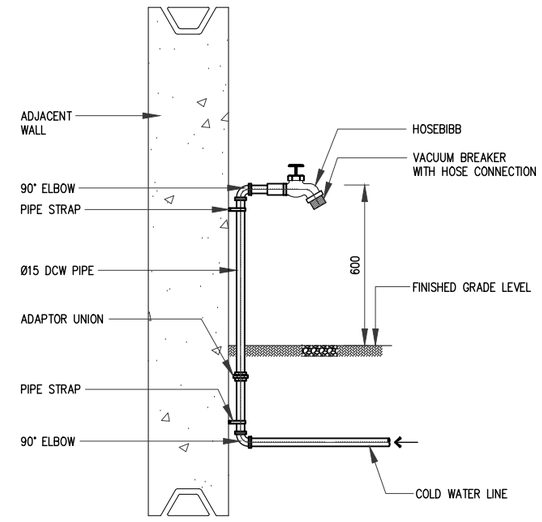
TOILET – FLOOR DRAIN – FULL BODIED (TYPE : 1)
SCALE : NTS



DETAIL OF VENT THROUGH ROOF
SCALE : NTS



DETAIL OF LAVATORY MOUNTING
SCALE : NTS



NOTE: PIPE WORK TO HOSE BIBB THAT IS EXPOSED TO WEATHER MUST BE OF G.I PIPE & ASSOCIATED FITTINGS

DETAIL OF HOSE BIBB
SCALE : NTS

MISCELLANEOUS DETAILS - A

SCALE = NTS

TENDER ISSUE

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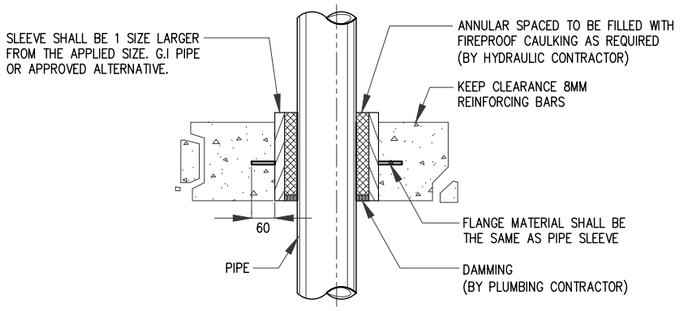
Project Title
MFMR AUKI - MALAITA PROVINCE
AUKI-MALAITA PROVINCE
SOLOMON ISLANDS

Drawing Title
HYDRAULIC SERVICES
MISCELLANEOUS DETAILS - A

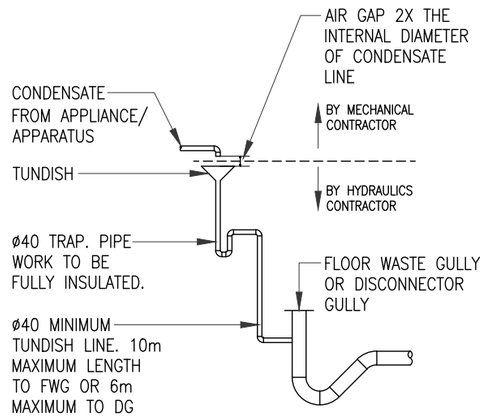
Revision	Date	Initial	Description
1	28OCT25	PAT	TENDER ISSUE
0	21JUL25	PAT	DRAFT PERMIT ISSUE

Designed	KL
Drawn	KL
Checked	SA/PM
Approved	PAT
Date	JULY 2025
A3 Scale	NTS
A2(NTS)	
A1(NTS)	

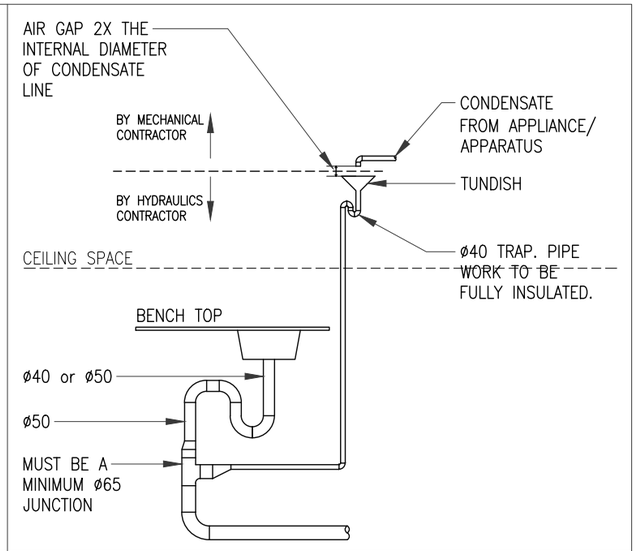
Project Number P25-30
Drawing No H-MISC-A
sheet A3
Revision No 1



PIPE SLEEVE TROUGH FLOOR DETAIL
SCALE : NTS



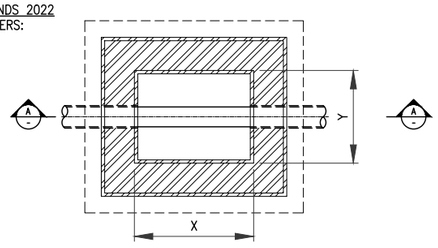
TUNDISH DETAIL–1
SCALE : NTS



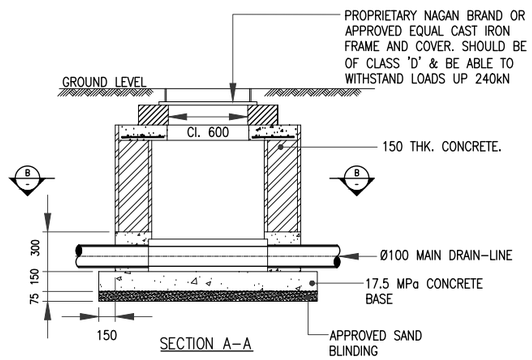
TUNDISH DETAIL–2
SCALE : NTS

NATIONAL BUILDING CODE OF SOLOMON ISLANDS 2022
TABLE DF6.11.3 SIZE OF INSPECTION CHAMBERS:

MINIMUM INTERNAL MEASUREMENT (mm)			
DEPTH TO FLOOR	RECTANGULAR		CIRCULAR
	LENGTH	WIDTH	DIAMETER
LESS THAN 600	600	450	600
600 – 900	900	600	900
MORE THAN 900	1200	750	1050



PLAN



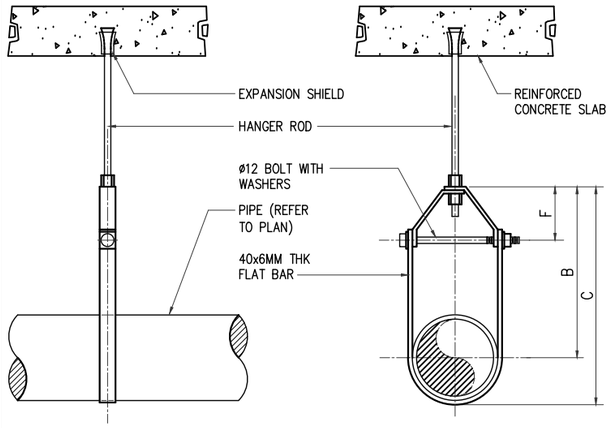
SECTION B–B

SECTION A–A

TYPICAL INSPECTION CHAMBER DETAILS
SCALE : NTS

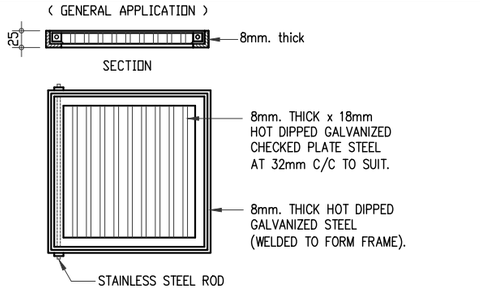
TABLE OF DIMENSIONS:

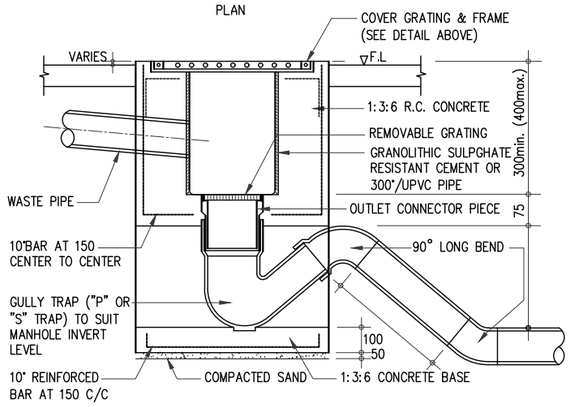
PIPE SIZE	DIMENSION IN MILIMETER (MM)			
	ROD DIA.	B	C	F (MAX)
50	10	110	140	22
65/100	12	125	163	30
100	16	155	240	50
150	19	180	225	50



PIPE HANGER DETAIL
SCALE : NTS

(GENERAL APPLICATION)





DETAIL OF EXTERNAL GULLY TRAP
SCALE : NTS

Notes:
1. This Drawing shall be read in conjunction with the Hydraulic Services Specifications.

# MISCELLANEOUS DETAILS - B
SCALE = NTS

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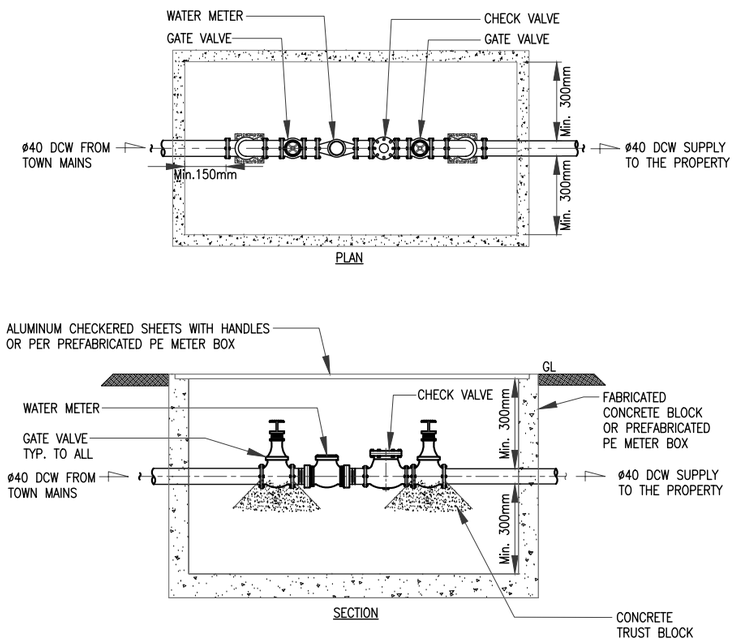
Project Title
MFMR AUKI - MALAITA PROVINCE
AUKI-MALAITA PROVINCE
SOLOMON ISLANDS

Drawing Title
HYDRAULIC SERVICES
MISCELLANEOUS DETAILS - B

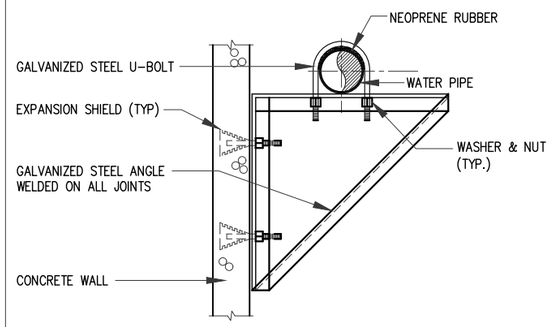
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Date	JULY 2025
A3 Scale	NTS
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A1(NTS)	
Project Number	P25-30
Drawing No	H-MISC-B
sheet	A3
Revision No	1

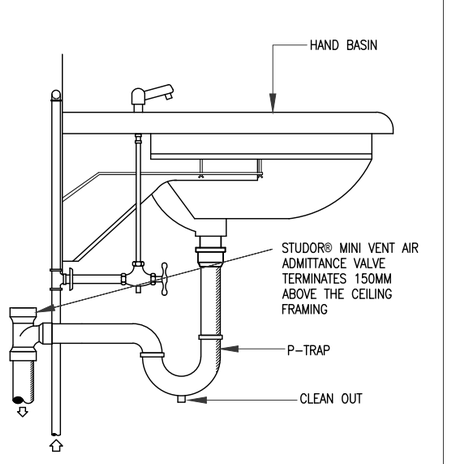
Notes:
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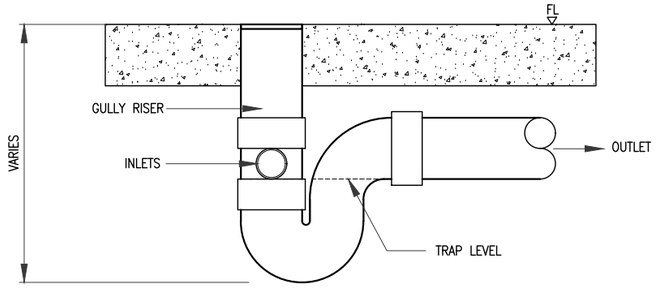
WATER METER DETAIL
SCALE : NTS



WALL PIPE SUPPORT
SCALE : NTS



WASH HAND BASIN DETAIL
SCALE : NTS



FLOOR WASTE GULLY TRAP DETAIL
SCALE : NTS

# MISCELLANEOUS DETAILS - C
SCALE = NTS

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Client
fmc PACIFIC

Project Title
MFMR AUKI - MALAITA PROVINCE
AUKI-MALAITA PROVINCE
SOLOMON ISLANDS

Drawing Title
HYDRAULIC SERVICES
MISCELLANEOUS DETAILS - C

Revision	Date	Initial	Description
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Designed	KL
Drawn	KL
Checked	SA/PM
Approved	PAT
Date	JULY 2025
A3 Scale	NTS
A2(NTS)	
A1(NTS)	

Project Number: P25-30
Drawing No: H-MISC-C
sheet: A3
Revision No: 1