



## LOCALITY PLAN

SCALE NTS

PROJECT : MANAGING COASTAL AQUIFERS (MCAP), NANUMEA

LOCATION : NANUMEA, TUVALU

JOB NO : 22307117

CLIENT :  Pacific  
Community  
Communauté  
du Pacifique

CONSULTANT:  **NRW MACALLAN (FIJI) LTD**  
CONSULTING ENGINEERS  
CIVIL, STRUCTURAL, ELECTRICAL, MECHANICAL & PROJECT MANAGEMENT  
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P. O. BOX 1208, SUVA  
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### DRAWING SHEET SCHEDULES

SHEET No.	SHEET TITLE	REV	DATE
G-001	COVER SHEET	1	5-Oct-23
C-001	GENERAL VIEW OF PIPELINE ALIGNMENT AND SURVEY CONTROL POINTS LOCATION	1	3-Oct-23
C-002	CONTROL SURVEY POINTS TABLE (SHEET 1 OF 4)	1	3-Oct-23
C-003	CONTROL SURVEY POINTS TABLE (SHEET 2 OF 4)	1	3-Oct-23
C-004	CONTROL SURVEY POINTS TABLE (SHEET 3 OF 4)	1	3-Oct-23
C-005	CONTROL SURVEY POINTS TABLE (SHEET 4 OF 4)	1	3-Oct-23
A-001	GALLERY TANK OVERHEAD FLOOR PLAN, BEAM LAYOUT AND SECTIONS PIPEWORK DETAILS	1	27-Sep-23
A-002	FOUNDATION PLAN	1	27-Sep-23
A-003	HEADER TANK, INLET PIPE WORK ELEVATIONS (BE & SE1)	1	27-Sep-23
A-004	HEADER TANK, INLET PIPE WORK ELEVATIONS (FE & SE2)	1	27-Sep-23
A-005	GALLERY TANK SECTION	1	27-Sep-23
A-006	GENERAL PIPE WORK DETAILS	1	27-Sep-23
A-007	GALLERY PUMP PIPE WORK SECTION (TYP.)	1	27-Sep-23
A-008	GALLERY SECTION AND DETAIL	1	27-Sep-23
A-009	GALLERY CHAMBER COVER FRAME, TYPICAL SECTIONS AND DETAIL	1	27-Sep-23
A-010	COLUMN STRUCTURAL DETAILS, PAD FOOTINGS & TYPICAL SECTIONS	1	27-Sep-23
A-011	COMMUNITY FILLING POINT SITE PLAN & TYPICAL SECTION	1	27-Sep-23
A-012	SAFETY ACCESS CAGE LADDER AND TYPICAL HANDRAIL ELEVATIONS, SECTIONS AND DETAILS	1	27-Sep-23

Design amended to exclude

Design amended to exclude

Design amended to exclude

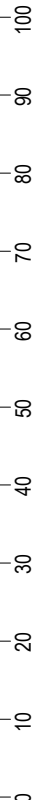
Design amended to exclude

Design amended to exclude

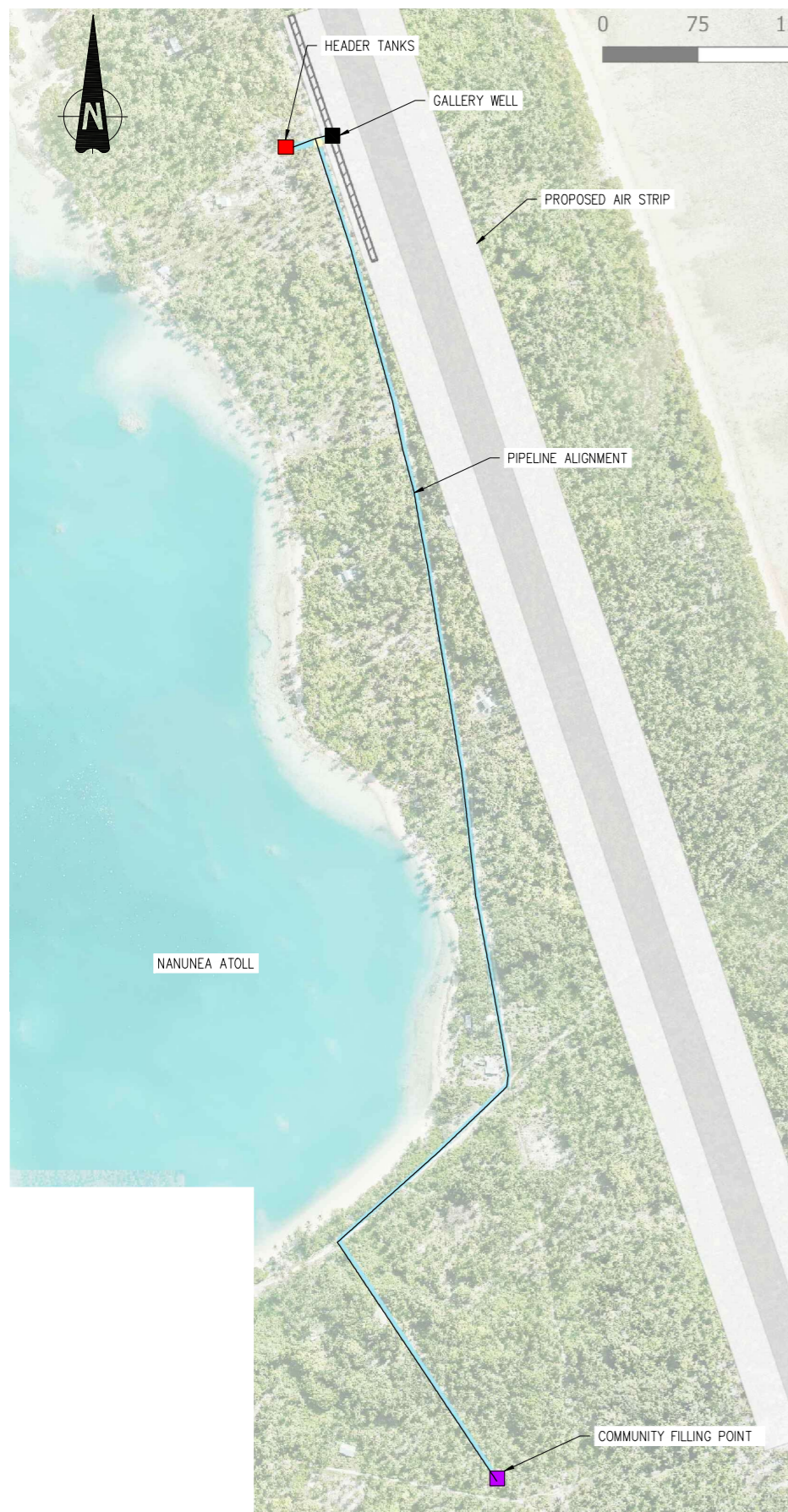
Design amended to exclude

Design amended to exclude

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**GENERAL VIEW OF PIPELINE ALIGNMENT**  
SCALE: NTS



**CONTROL SURVEY POINTS (SET 1)**  
SCALE: NTS

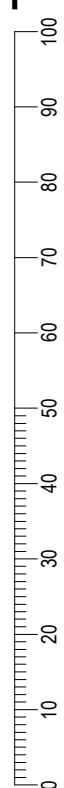


**CONTROL SURVEY POINTS (SET 2)**  
SCALE: NTS

**NOTE:**

1. SCHEMATIC DIAGRAM ONLY.
2. ALL DIMENSION ARE IN METERS (UNLESS NOTED OTHERWISE).
3. THE SURVEY DATA WAS ADOPTED THE SPC LIDAR MODEL PROVIDED BY SPC ON 20<sup>th</sup> SEPTEMBER, 2023.
4. THE CONTROL SURVEY POINTS INFORMATION ARE PROVIDED IN THE TABLE SHOWN IN DWG Nos: C-002, C-003, C-004 AND C-005.

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ISSUE	DESCRIPTION	CHECKED	APPROVED	DATE
1	FOR CONSTRUCTION	HS	NK	04.10.23

Client:



**Pacific Community**  
**Communauté du Pacifique**

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Drafter:	Designed:
HT	-
Checked:	Date:
HSNK	28.09.23
Scale A1:	Scale A3:
AS SHOWN	HALF SHOWN

PROJECT: MANAGING COASTAL AQUIFERS (MCAP), NANUMEA, TUVALU  
TITLE: **GENERAL VIEW OF PIPELINE ALIGNMENT AND CONTROL SURVEY POINTS**

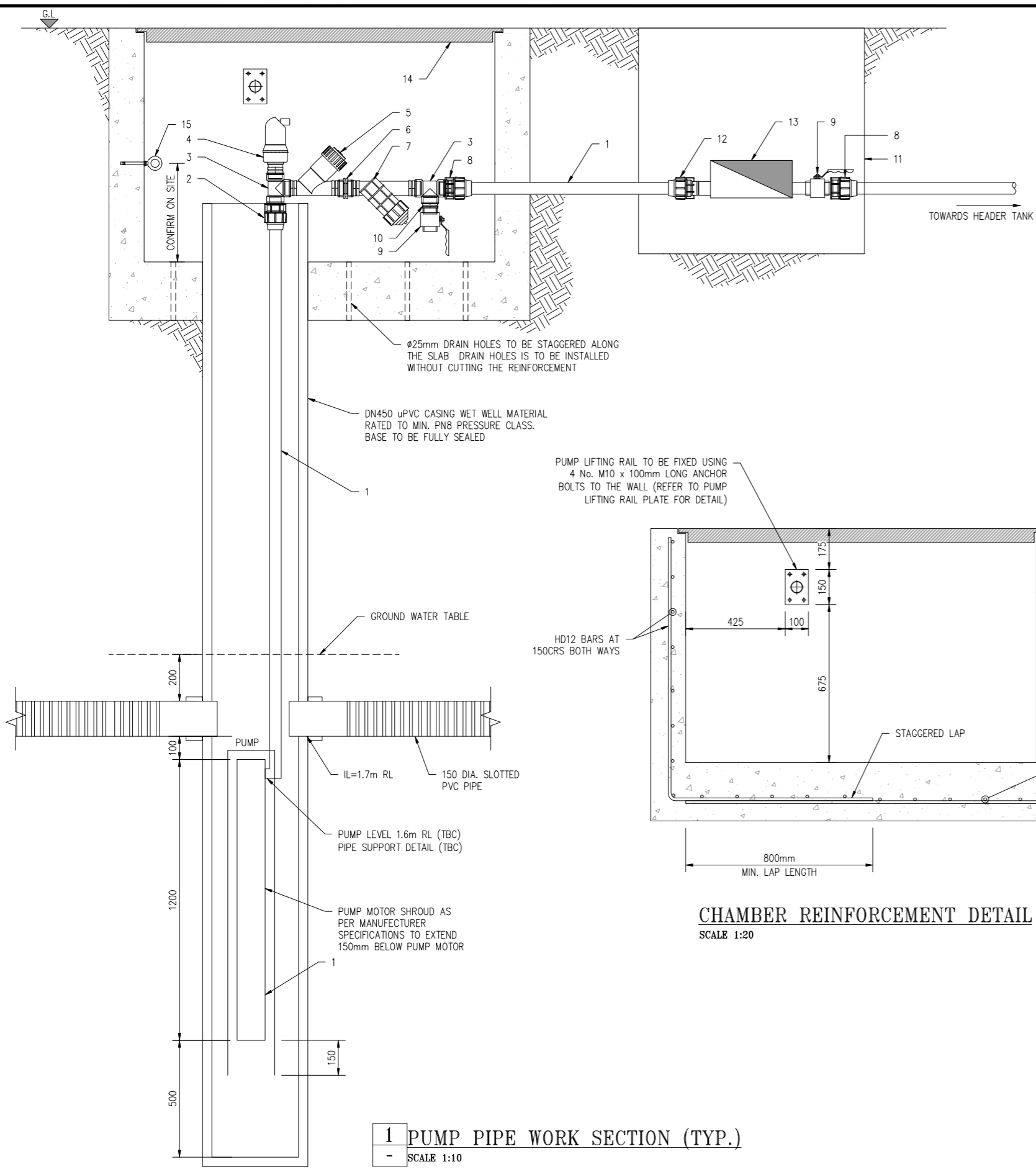
JOB. NO:	
22307117	
REV. NO:	DRAWING. NO:
1	C-001





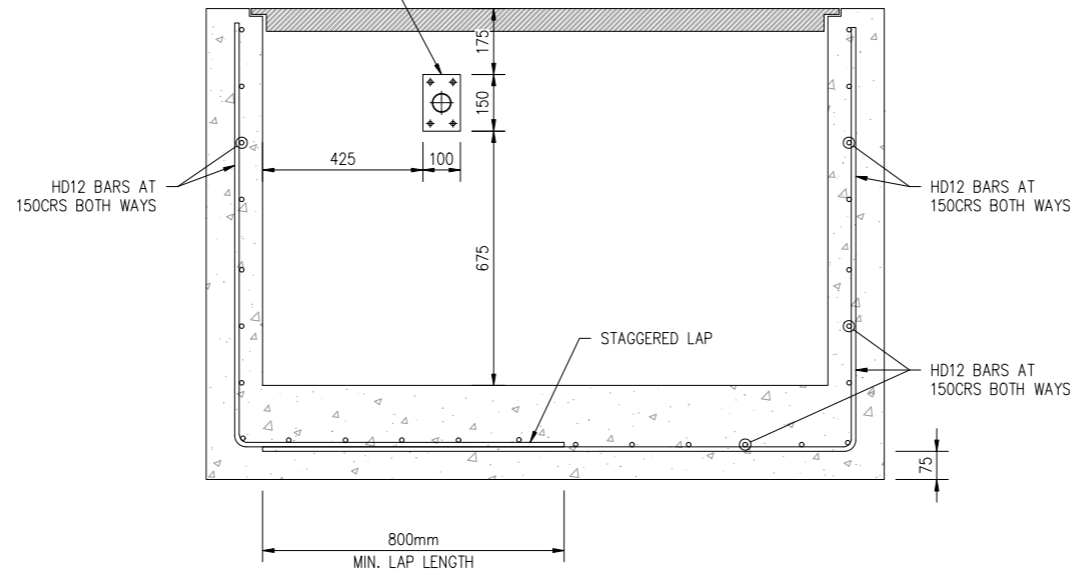




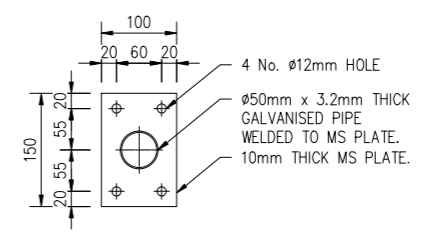


**1 PUMP PIPE WORK SECTION (TYP.)**  
SCALE 1:10

PUMP LIFTING RAIL TO BE FIXED USING 4 No. M10 x 100mm LONG ANCHOR BOLTS TO THE WALL (REFER TO PUMP LIFTING RAIL PLATE FOR DETAIL)



**CHAMBER REINFORCEMENT DETAIL**  
SCALE 1:20

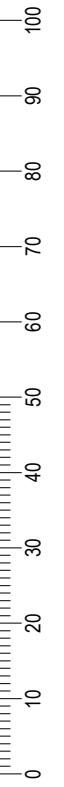


**PUMP LIFTING RAIL PLATE DETAIL**  
SCALE 1:5

- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
  3. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
  4. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
  5. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
  6. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
  7. CONCRETE IS TO BE 30MPa STRENGTH.
  8. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERECTION.

LEGEND:	
No.	DESCRIPTION
1	DN 50 POLYETHYLENE PIPE PE 80 SDR 11
2	50 OD x 2" BSP METRIC COMPRESSION MALE ADAPTOR
3	2"BSP THREADED TEE (STEEL REINFORCED)
4	DN 50 AIR RELEASE VALVE (COMBINATION) TRIPLE ACTION WITH 2"BSP MALE THREADED END
5	DN 50 CHECK VALVE WITH 2"BSP MALE THREADED ENDS
6	2"BSP THREADED SOCKET (STEEL REINFORCED)
7	DN 50 POLY SCREEN FILTER WITH 2" BSP THREADED MALE ENDS
8	DN 50 x 2"BSP METRIC MALE COMPRESSION ADAPTOR
9	DN 50 STAINLESS STEEL LOCKABLE BALL VALVE WITH 2"BSP THREADED FEMALE ENDS
10	2" BSP THREADED NIPPLE
11	METER BOX HOUSING
12	DN 50 x 2"BSP METRIC COMPRESSION FEMALE ADAPTOR
13	DN 50 MULTI JET FLOW METER WITH 2"BSP MALE THREADED CONNECTORS EITHER SIDE
14	GALLERY CHAMBER COVER FRAME
15	M10 x 100mm ANCHOR BOLT WITH SLEEVE ANCHOR EYE TO SECURE PUMP

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1	FOR CONSTRUCTION	HS	NK	04.10.23

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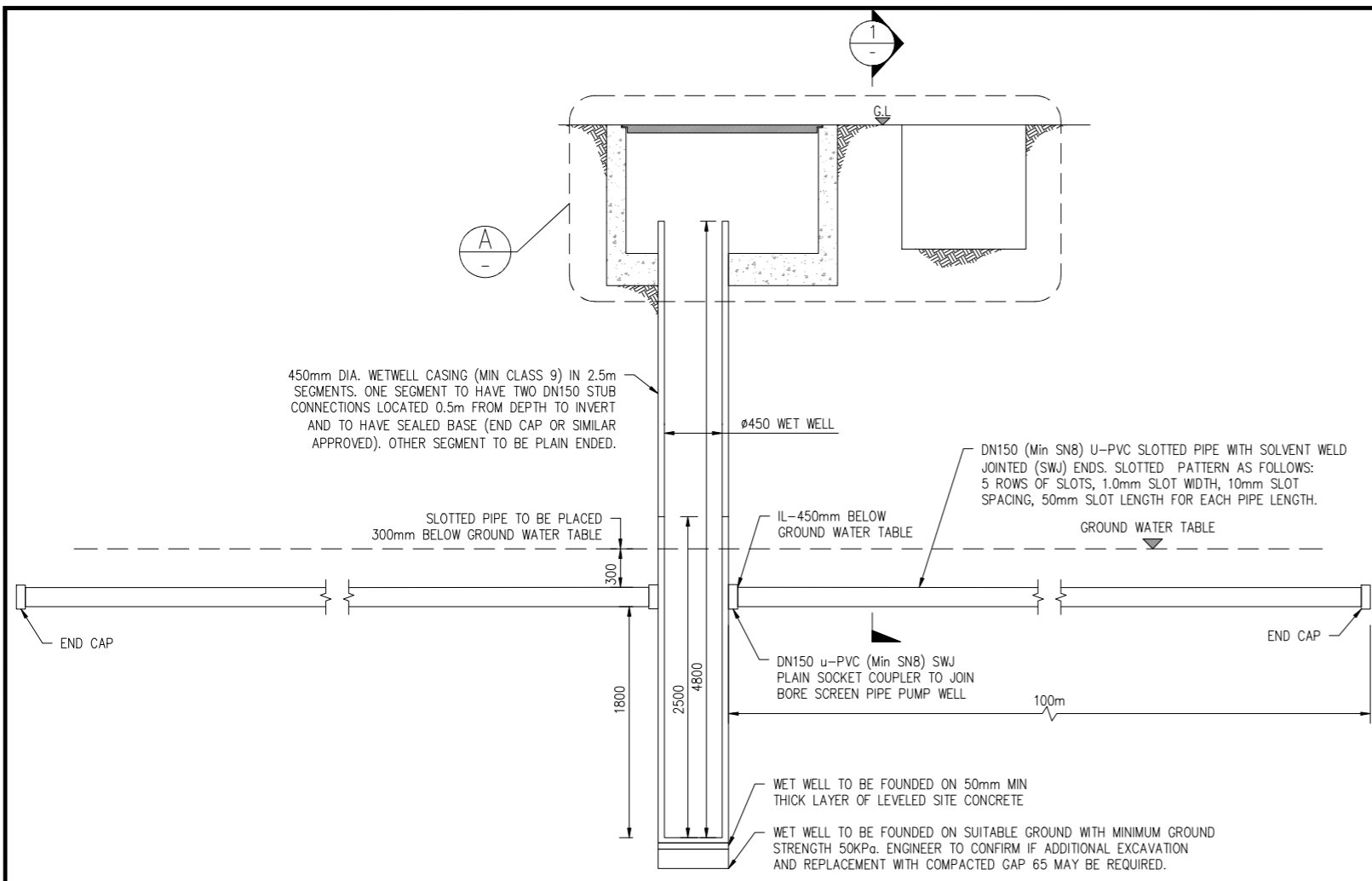
Drafter:	HT	Designed:	-
Checked:	HSNK	Date:	23.08.23
Scale A1:	AS SHOWN	Scale A3:	HALF SHOWN

PROJECT: MANAGING COASTAL AQUIFERS (MCAP), NANUMEA, TUVALU

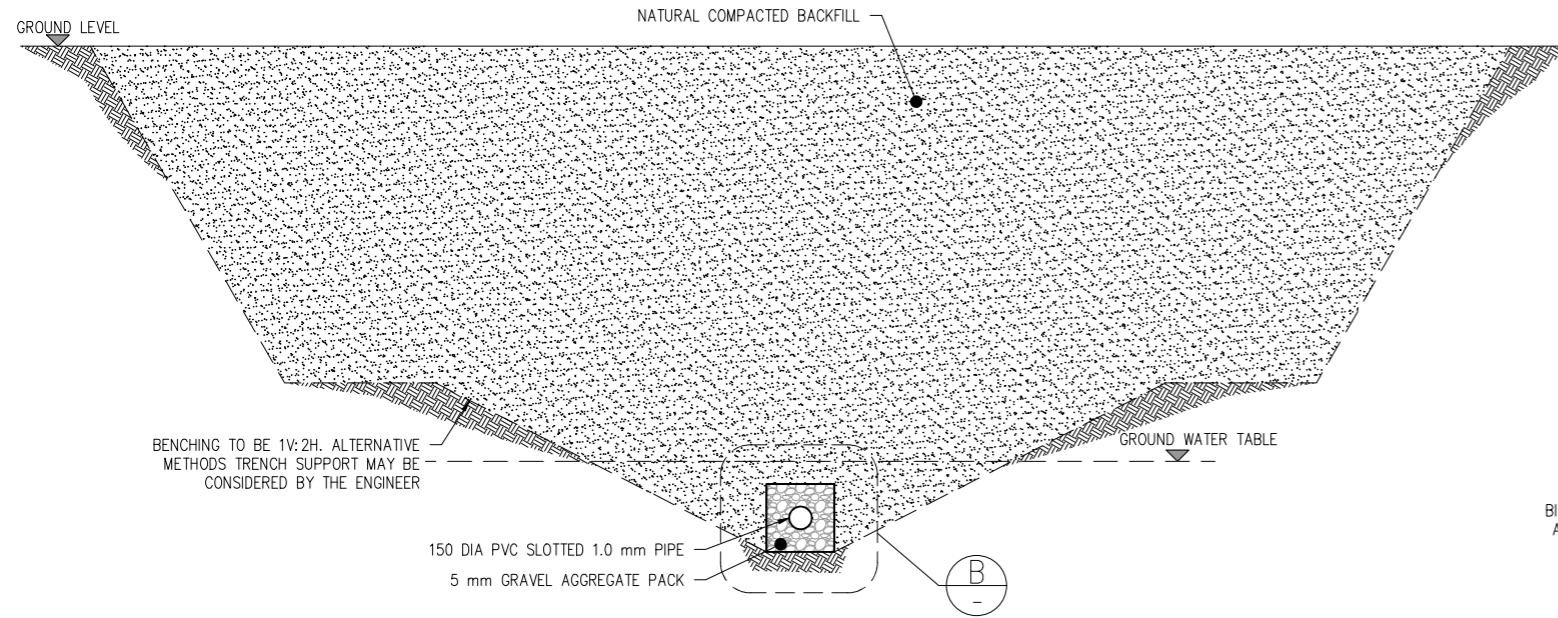
TITLE: **GALLERY PUMP PIPE WORK SECTION CHAMBER REINFORCEMENT DETAIL**

JOB. NO:	<b>22307117</b>
REV. NO:	1
DRAWING. NO:	A-007

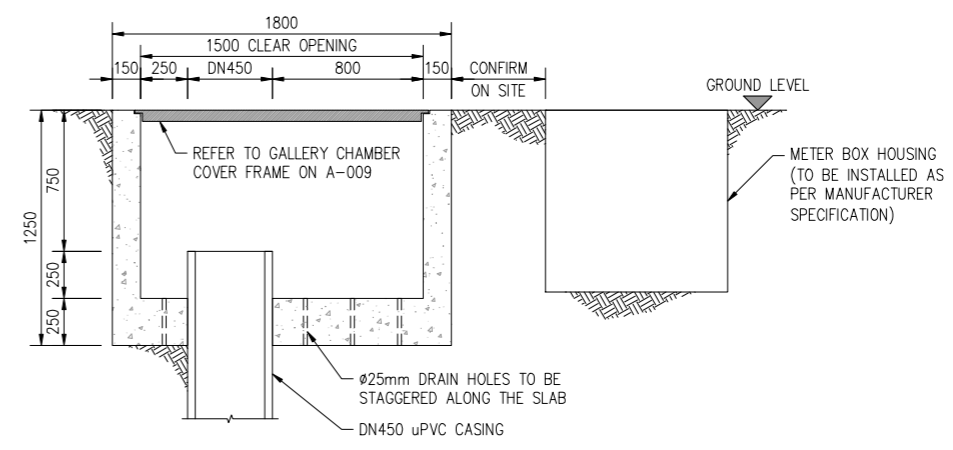
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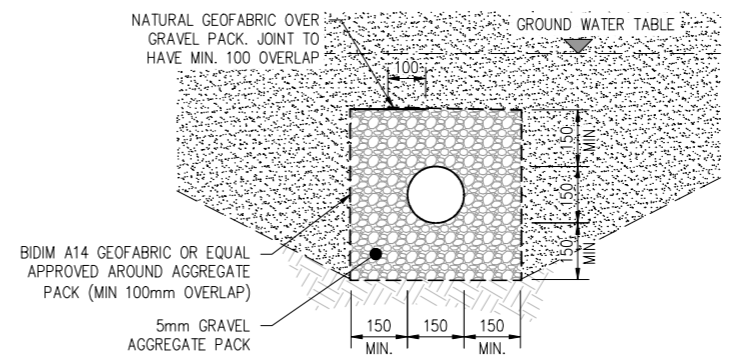
**INFILTRATION GALLERY GENERAL ELEVATION**  
SCALE 1:25



**1 TYPICAL TRENCH DETAIL-SECTION 1**  
SCALE 1:25



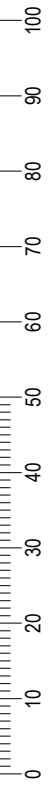
**A DETAIL**  
SCALE 1:20



**B DETAIL**  
SCALE 1:10

- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. FINAL PIPE WORK LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
  3. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
  4. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
  5. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
  6. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
  7. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
  8. CONCRETE IS TO BE 30MPa STRENGTH.
  9. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERSECTION.

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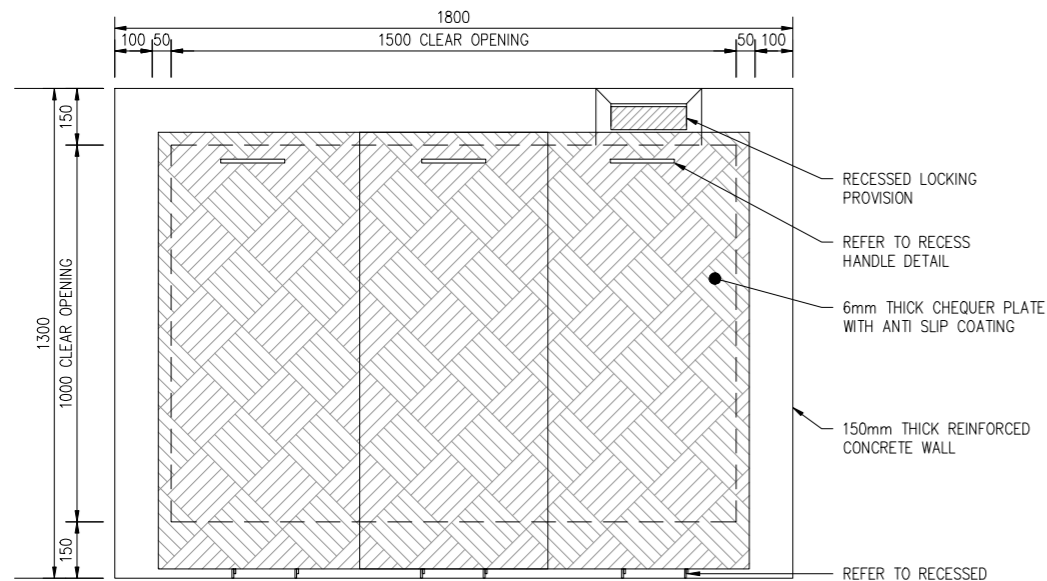
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Scale A1:	AS SHOWN	Scale A3:	HALF SHOWN

PROJECT:	MANAGING COASTAL AQUIFERS (MCAP), NANUMEA, TUVALU
TITLE:	<b>GALLERY DETAILS</b>

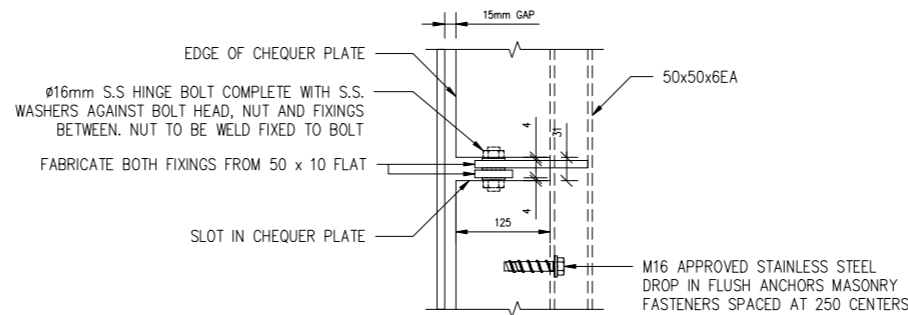
JOB NO:	<b>22307117</b>
REV. NO:	1
DRAWING NO:	A-008





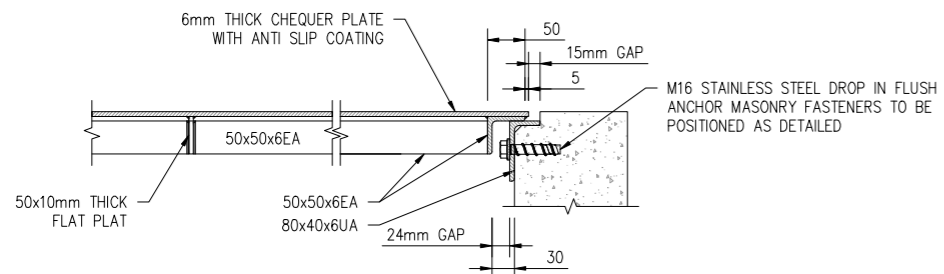
**1 GALLERY CHAMBER COVER FRAME**

A-04 SCALE 1:10



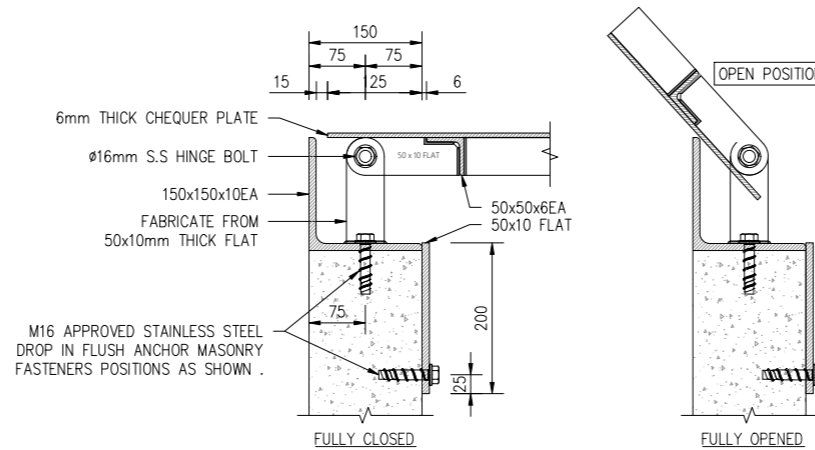
**1 RECESSED HINGED DETAIL PLAN (TYP.)**

A-04 SCALE 1:5



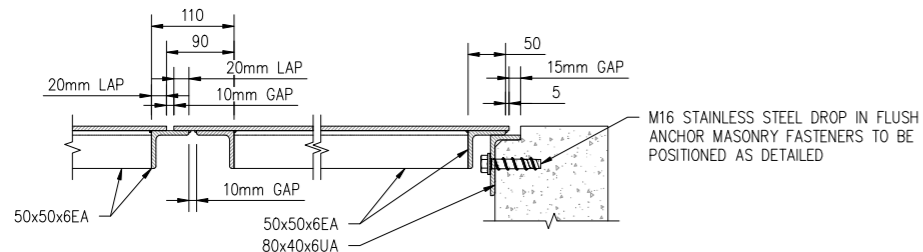
**1 SECTIONAL ELEVATION-TRANSVERSE**

A-04 SCALE 1:5



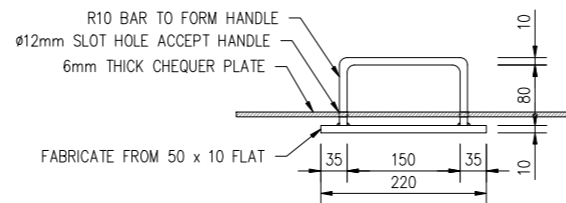
**1 RECESSED HINGED DETAIL ELEVATION (TYP.)**

A-04 SCALE 1:5



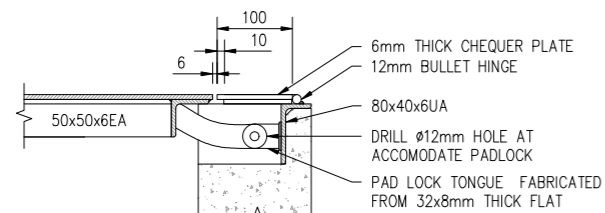
**1 SECTIONAL ELEVATION-LONGITUDINAL (TYP.)**

A-04 SCALE 1:5



**1 RECESSED HANDLE DETAIL (TYP.)**

A-04 SCALE 1:5



**1 ACCESS HINGE LOCKING DETAILS**

A-04 SCALE 1:5

**NOTE:**

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
3. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
4. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
5. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
6. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
7. CONCRETE IS TO BE 30MPa STRENGTH.
8. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERECTION.

DO NOT SCALE - IF IN DOUBT, ASK

100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0

ORIGINAL SIZE A1

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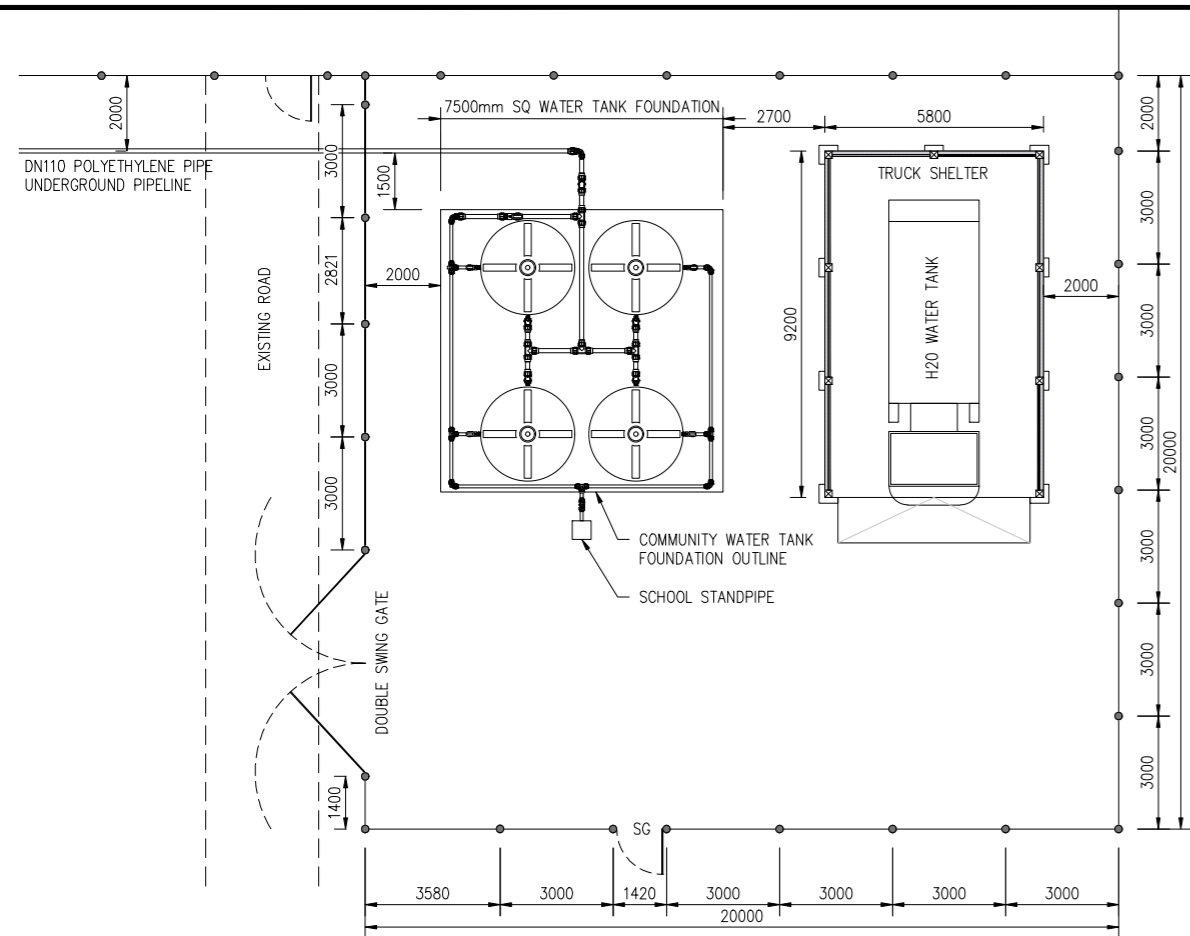
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Scale A1: AS SHOWN	Scale A3: HALF SHOWN

PROJECT: MANAGING COASTAL AQUIFERS (MCAP), NANUMEA, TUVALU

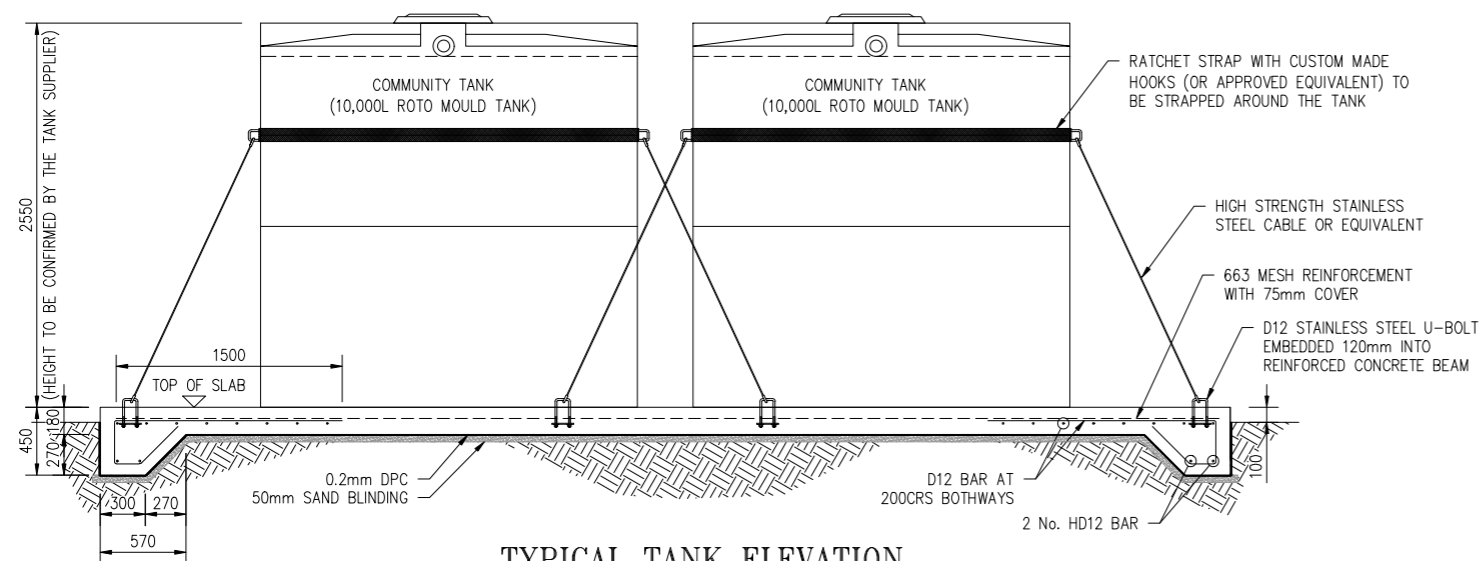
TITLE: **GALLERY CHAMBER COVER FRAME  
TYPICAL SECTIONS AND  
DETAILS**

JOB. NO: <b>22307117</b>	
REV. NO: 1	DRAWING. NO: A-009



**SITE PLAN-COMMUNITY FILLING POINT**

SCALE 1:100



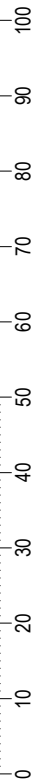
**TYPICAL TANK ELEVATION**

SCALE 1:25

**NOTE:**

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. PIPE AND STRUCTURE LEVELS TO BE CONFIRMED ON SITE BY THE ENGINEER.
3. BEFORE CONSTRUCTION, CONTRACTOR TO RE-CHECK EXISTING DIMENSION ONSITE.
4. CONTRACTOR TO SEEK DESIGNER APPROVAL IF CHANGES ARE MADE TO THE DRAWINGS.
5. ALL PIPE CONNECTION IS TO BE CONFIRMED BY THE ENGINEER PRIOR TO PROCUREMENT.
6. ANY OTHER CHANGES MADE APART FROM THE DESIGNERS APPROVAL, CLIENT WILL BARE EXTRA COST.

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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), NANUMEA, TUVALU

TITLE: **COMMUNITY FILLING POINT SITE PLAN**  
**TYPICAL TANK ELEVATION**

JOB. NO:	<b>22307117</b>
REV. NO:	1
DRAWING. NO:	A-011