


















PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	HOT WATER PIPEWORK
	HOT WATER
	STORMWATER
	WASTEWATER
	VERTICAL
	FLOOR
	WASTEWATER VENT
	ELECTRONIC THERMOSTATIC MIXING
	FLOW
	CAPPIN
	ISOLATION
	PUMP (INDICATING DIRECTION OF FLOW)
	WATER METER SUPPLIED BY SDME
	INSPECTION

1 Plumbing Legend

 <p>Desert Rose Team UOW Australia - Dubai</p>	<p>Team: TEAM UOW</p> <p>Address: UNIVERSITY OF WOLLONGONG WOLLONGONG NSW, AUSTRALIA 2522</p> <p>Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au</p>	<p>Client: Dubai Electricity and Water Authority</p> 	<table border="1"> <thead> <tr> <th colspan="4">AMENDMENTS</th> </tr> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Updated drawings, removing elements</td> <td>20/02/18</td> <td>VP</td> <td>DS</td> </tr> <tr> <td>2</td> <td>Updated to As-Built</td> <td>14/09/18</td> <td>VP</td> <td>DS</td> </tr> </tbody> </table>	AMENDMENTS				REV.	DESCRIPTION	DATE	DRAWN	CHECK	1	Updated drawings, removing elements	20/02/18	VP	DS	2	Updated to As-Built	14/09/18	VP	DS	<p>COPYRIGHT None; Project is Public</p> <p>LOT # M</p> <p>DRAWER D.SIMPSON</p> <p>CHECKED B.BANFIELD</p> <p>DATE 20 February, 2018</p> <p>SCALE N.T.S. @ A3</p>	<p>PLUMBING PLAN LEGEND</p> <p>SHEET: 01 OF 01</p> <p>PL-001</p>
	AMENDMENTS																							
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	1	Updated drawings, removing elements	20/02/18	VP	DS																			
2	Updated to As-Built	14/09/18	VP	DS																				

POTABLE WATER DEMAND CALCULATIONS

WATER DRAWS (L)	DRAW QUANTITY
DISHWASHING MACHINE	58
WASHING MACHINE	581
SHOWER	700
"COOKING"	16

APROXIMATE SPRINKLER WATER REQUIREMENTS BASED ON UAE FIRE AND LIFE SAFETY CODE OF PRACTICE

DESIGN DENSITY (RESIDENTIAL)	4.1
FIRE SPECIFIC AREA OF THE DESERT ROSE (m ²)	79
TANK DURATION	10
TOTAL WATER USE FOR THE FIRE SYSTEM	3239

TOTAL POTABLE WATER DEMAND FOR COMPETITION 4594

PLUMBING FIXTURE UNIT CALCULATIONS

ACCORDING TO AS/NZS 3500.2:2003 TABLE 6.1 - PLUMBING AND DRAINAGE

UNIT TYPE	NUMBER OF FIXTURES	FIXTURE NUMBER
BASIN	1	1
SHOWER	2	2
WASHING MACHINE	5	5
DISHWASHER	3	3
KITCHEN SINK	3	3
TOILETS	4	8
SUM		23



PROBABLE SIMULATED FLOW IS 0.41 Litres/second

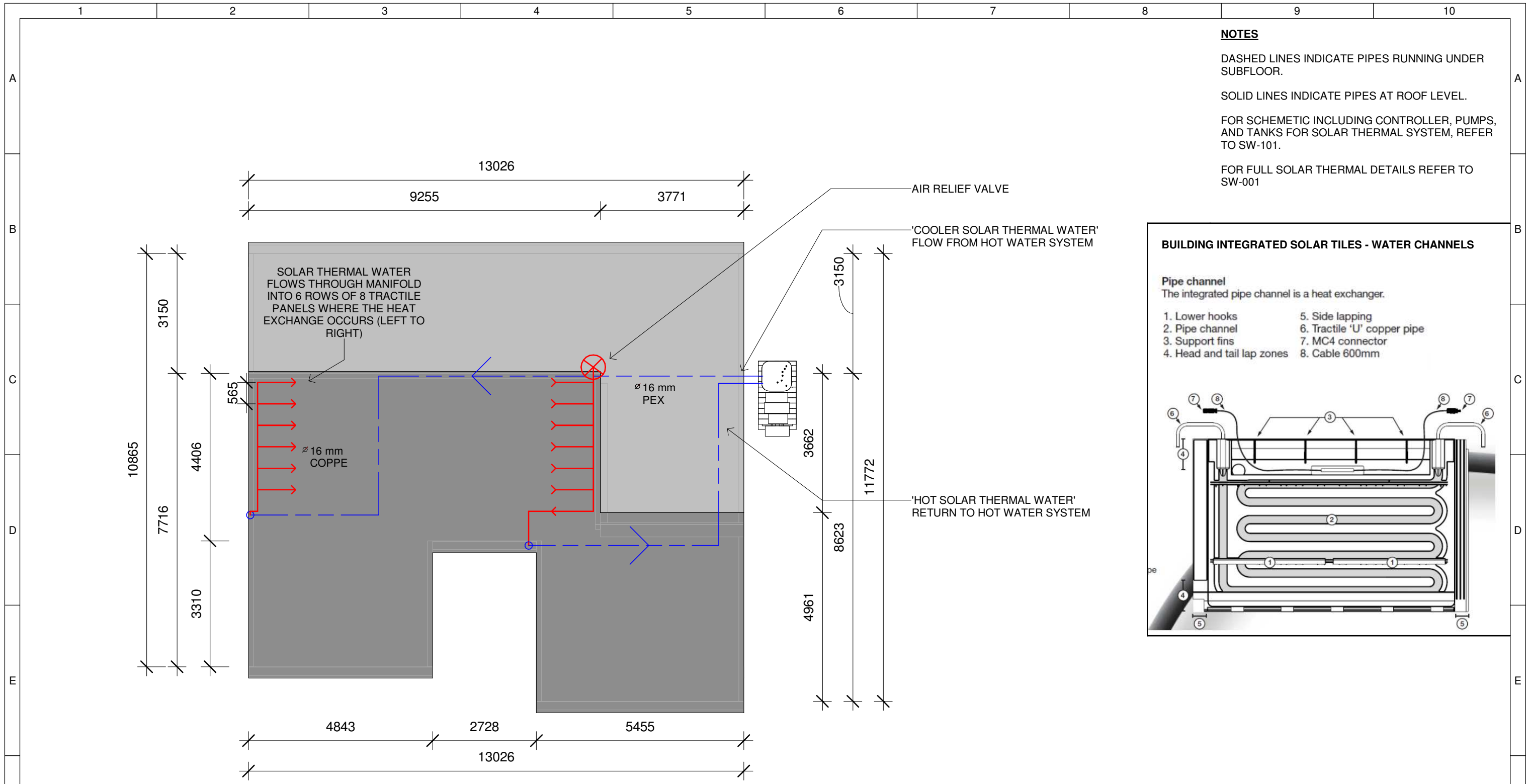
MAXIMUM WATER VELOCITY

WASTEWATER	
DIAMETER OF RAUPIANO PIPES (mm)	100
AREA OF PIPE (mm ²)	7854
FLOW RATE FROM FIXTURE UNIT CALCULATION ABOVE (L/S)	0.41
WATER VELOCITY (m/S)	0.05
WITH 15% EXTRA CAPACITY FLOW RATE (L/S)	0.47
ADJUSTED WATER VELOCITY (m/S)	0.06

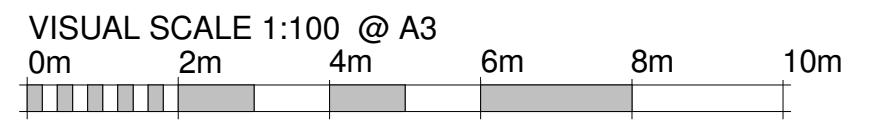
THE ADJUST WATER VELOCITY 0.06 < 1.5 m/S AS SPECIFIED BY THE COMPETITION ORGANISERS

1 Plumbing Calculations

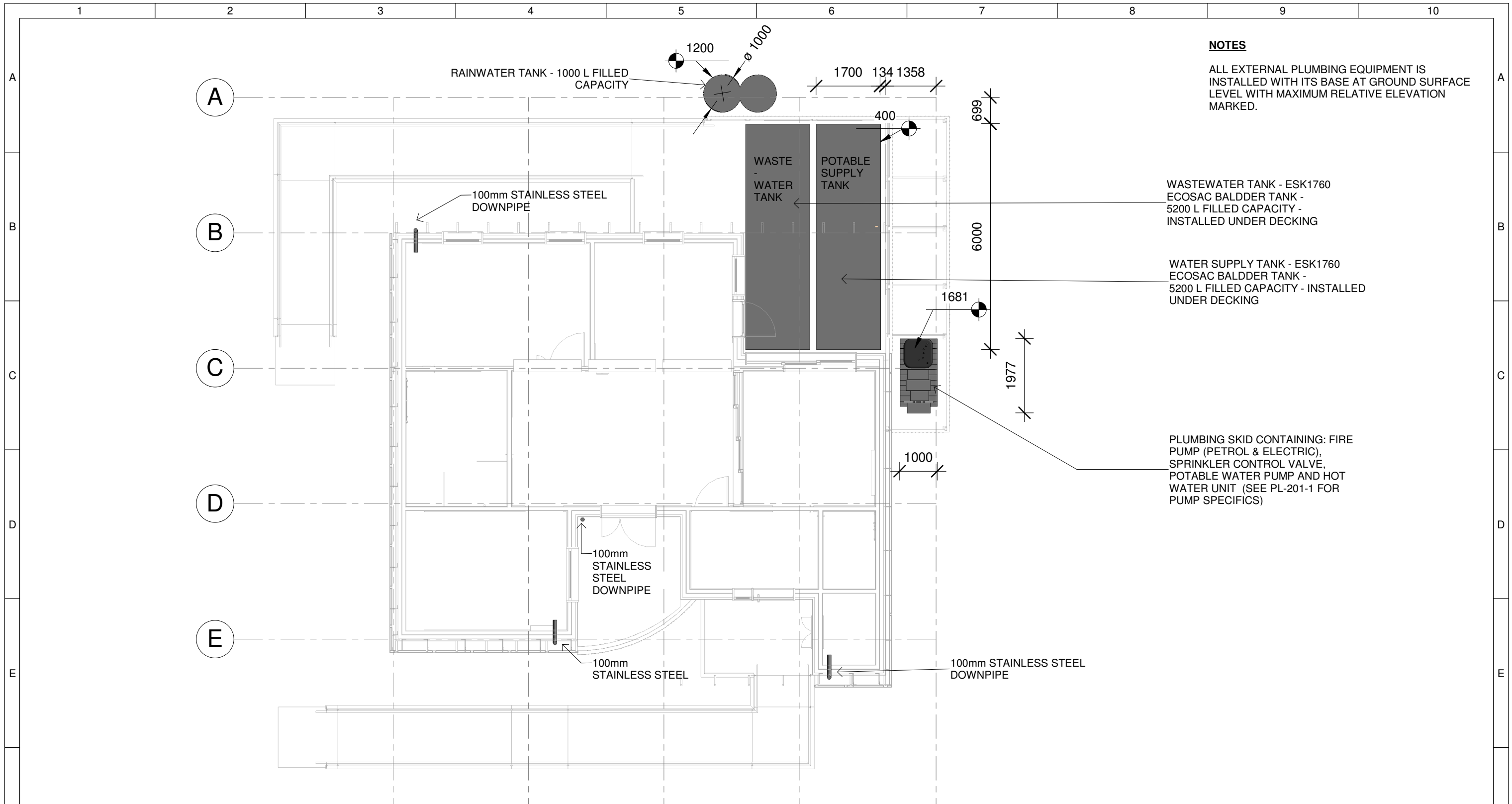
 <p>Desert Rose Team UOW Australia - Dubai</p>	<p>Team: TEAM UOW</p> <p>Address: UNIVERSITY OF WOLLONGONG WOLLONGONG NSW, AUSTRALIA 2522</p> <p>Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au</p>	<p>Client: Dubai Electricity and Water Authority</p> 	<table border="1"> <thead> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWN</th> <th>CHECK</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Updated drawings, removing elements</td> <td>20/02/18</td> <td>VP</td> <td>JR</td> </tr> <tr> <td>2</td> <td>Updated to As-Built</td> <td>14/09/18</td> <td>VP</td> <td>DS</td> </tr> </tbody> </table>	REV.	DESCRIPTION	DATE	DRAWN	CHECK	1	Updated drawings, removing elements	20/02/18	VP	JR	2	Updated to As-Built	14/09/18	VP	DS	<p>COPYRIGHT None; Project is Public</p> <p>LOT # M</p> <p>DRAWER D.SIMPSON</p> <p>CHECKED C.MCDOWELL</p> <p>DATE 20 February, 2018</p> <p>SCALE N.T.S. @ A3</p>	<p>PLUMBING CALCULATIONS</p> <p>SHEET: 01 OF 01</p> <p>PL-002</p>
	REV.	DESCRIPTION	DATE	DRAWN	CHECK															
1	Updated drawings, removing elements	20/02/18	VP	JR																
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1 Roof Plan
1 : 100



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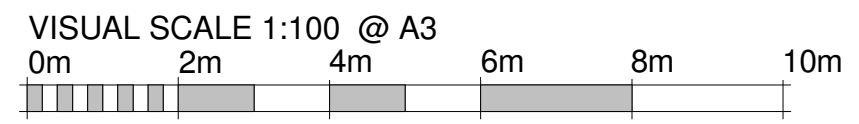
NOTES
 ALL EXTERNAL PLUMBING EQUIPMENT IS INSTALLED WITH ITS BASE AT GROUND SURFACE LEVEL WITH MAXIMUM RELATIVE ELEVATION MARKED.

WASTEWATER TANK - ESK1760 ECOSAC BALDDER TANK - 5200 L FILLED CAPACITY - INSTALLED UNDER DECKING

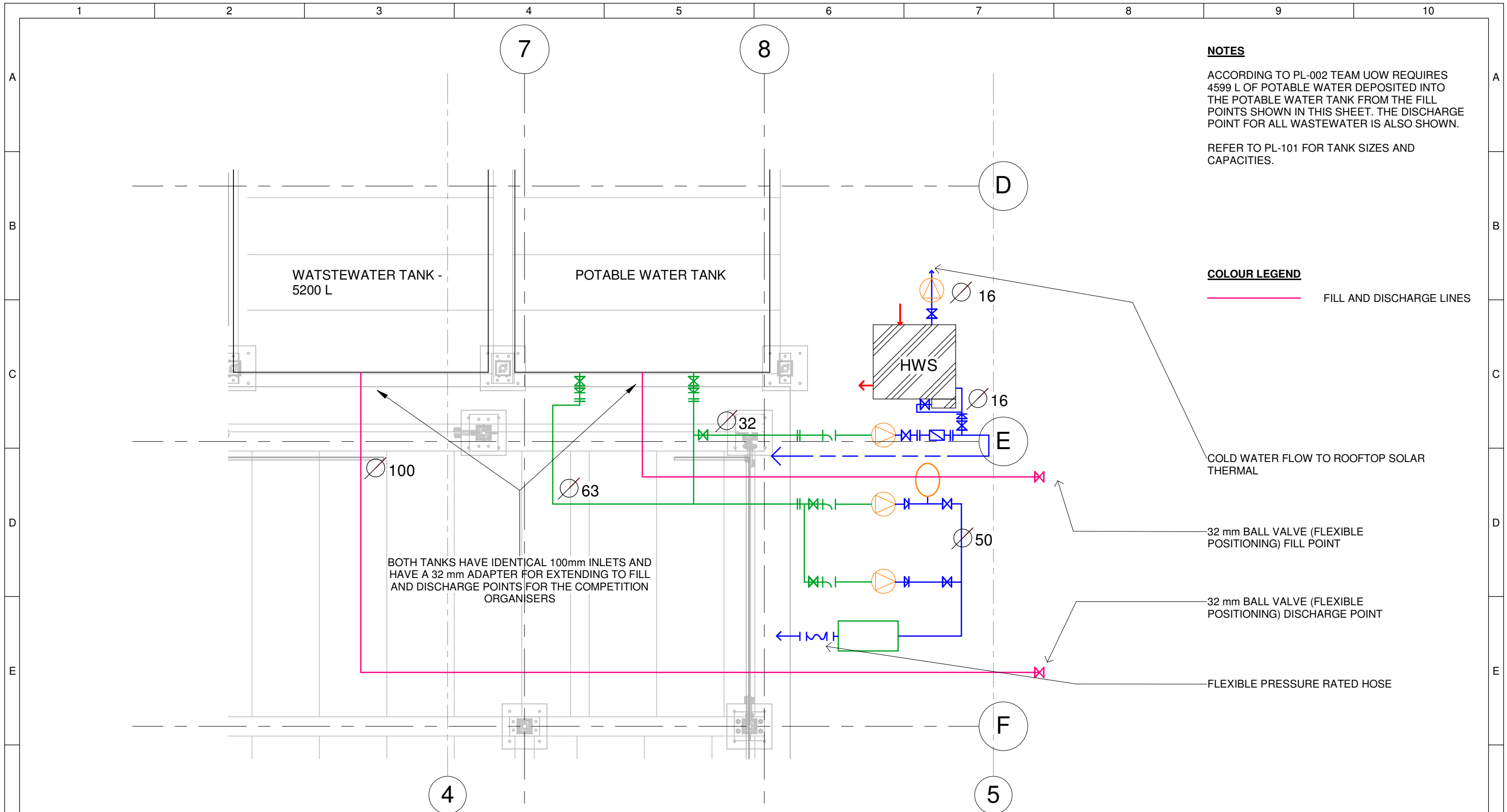
WATER SUPPLY TANK - ESK1760 ECOSAC BALDDER TANK - 5200 L FILLED CAPACITY - INSTALLED UNDER DECKING

PLUMBING SKID CONTAINING: FIRE PUMP (PETROL & ELECTRIC), SPRINKLER CONTROL VALVE, POTABLE WATER PUMP AND HOT WATER UNIT (SEE PL-201-1 FOR PUMP SPECIFICS)

1 Supply (Cold)
 1 : 100



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	REV.	DESCRIPTION	DATE	DRAWN	CHECK											
1	Updated to As-Built	14/09/18	VP	DS												
<p>1 2 3 4 5 6 7 8 9 10</p>																



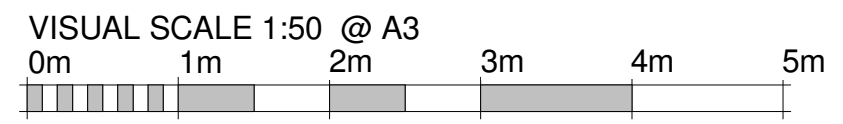
NOTES
 ACCORDING TO PL-002 TEAM UOW REQUIRES 4599 L OF POTABLE WATER DEPOSITED INTO THE POTABLE WATER TANK FROM THE FILL POINTS SHOWN IN THIS SHEET. THE DISCHARGE POINT FOR ALL WASTEWATER IS ALSO SHOWN.
 REFER TO PL-101 FOR TANK SIZES AND CAPACITIES.

COLOUR LEGEND
 FILL AND DISCHARGE LINES

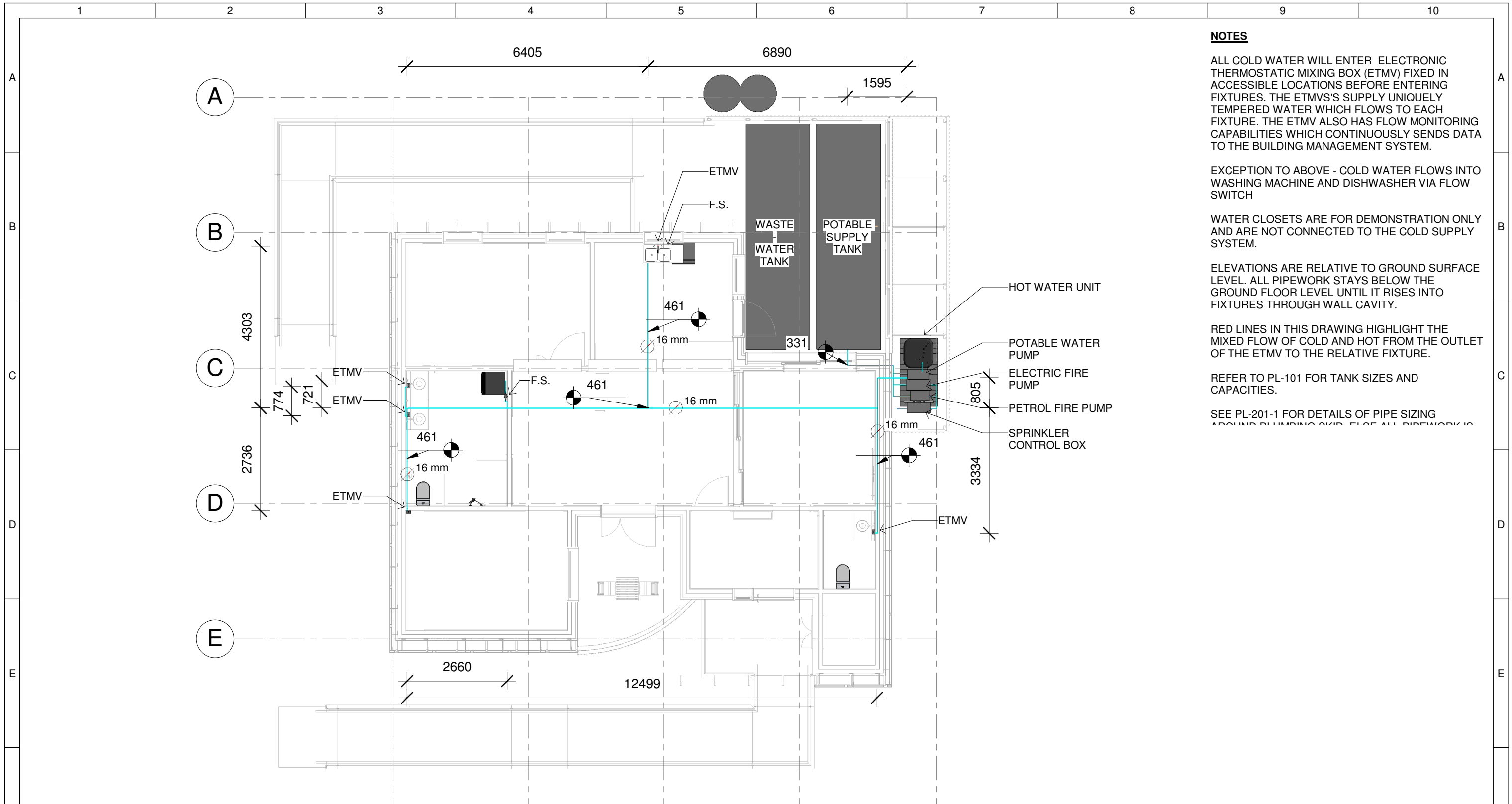
BOTH TANKS HAVE IDENTICAL 100mm INLETS AND HAVE A 32 mm ADAPTER FOR EXTENDING TO FILL AND DISCHARGE POINTS FOR THE COMPETITION ORGANISERS

COLD WATER FLOW TO ROOFTOP SOLAR THERMAL
 32 mm BALL VALVE (FLEXIBLE POSITIONING) FILL POINT
 32 mm BALL VALVE (FLEXIBLE POSITIONING) DISCHARGE POINT
 FLEXIBLE PRESSURE RATED HOSE

1 Tank Fill and Discharge Details
 1 : 25



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	REV.	DESCRIPTION	DATE	DRAWN	CHECK										
1	Updated to As-Built	14/09/18	VP	DS											
<p>1 2 3 4 5 6 7 8 9 10</p>															



NOTES

ALL COLD WATER WILL ENTER ELECTRONIC THERMOSTATIC MIXING BOX (ETMV) FIXED IN ACCESSIBLE LOCATIONS BEFORE ENTERING FIXTURES. THE ETMVS SUPPLY UNIQUELY TEMPERED WATER WHICH FLOWS TO EACH FIXTURE. THE ETMV ALSO HAS FLOW MONITORING CAPABILITIES WHICH CONTINUOUSLY SENDS DATA TO THE BUILDING MANAGEMENT SYSTEM.

EXCEPTION TO ABOVE - COLD WATER FLOWS INTO WASHING MACHINE AND DISHWASHER VIA FLOW SWITCH

WATER CLOSETS ARE FOR DEMONSTRATION ONLY AND ARE NOT CONNECTED TO THE COLD SUPPLY SYSTEM.

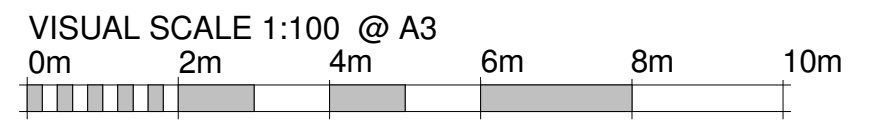
ELEVATIONS ARE RELATIVE TO GROUND SURFACE LEVEL. ALL PIPEWORK STAYS BELOW THE GROUND FLOOR LEVEL UNTIL IT RISES INTO FIXTURES THROUGH WALL CAVITY.

RED LINES IN THIS DRAWING HIGHLIGHT THE MIXED FLOW OF COLD AND HOT FROM THE OUTLET OF THE ETMV TO THE RELATIVE FIXTURE.

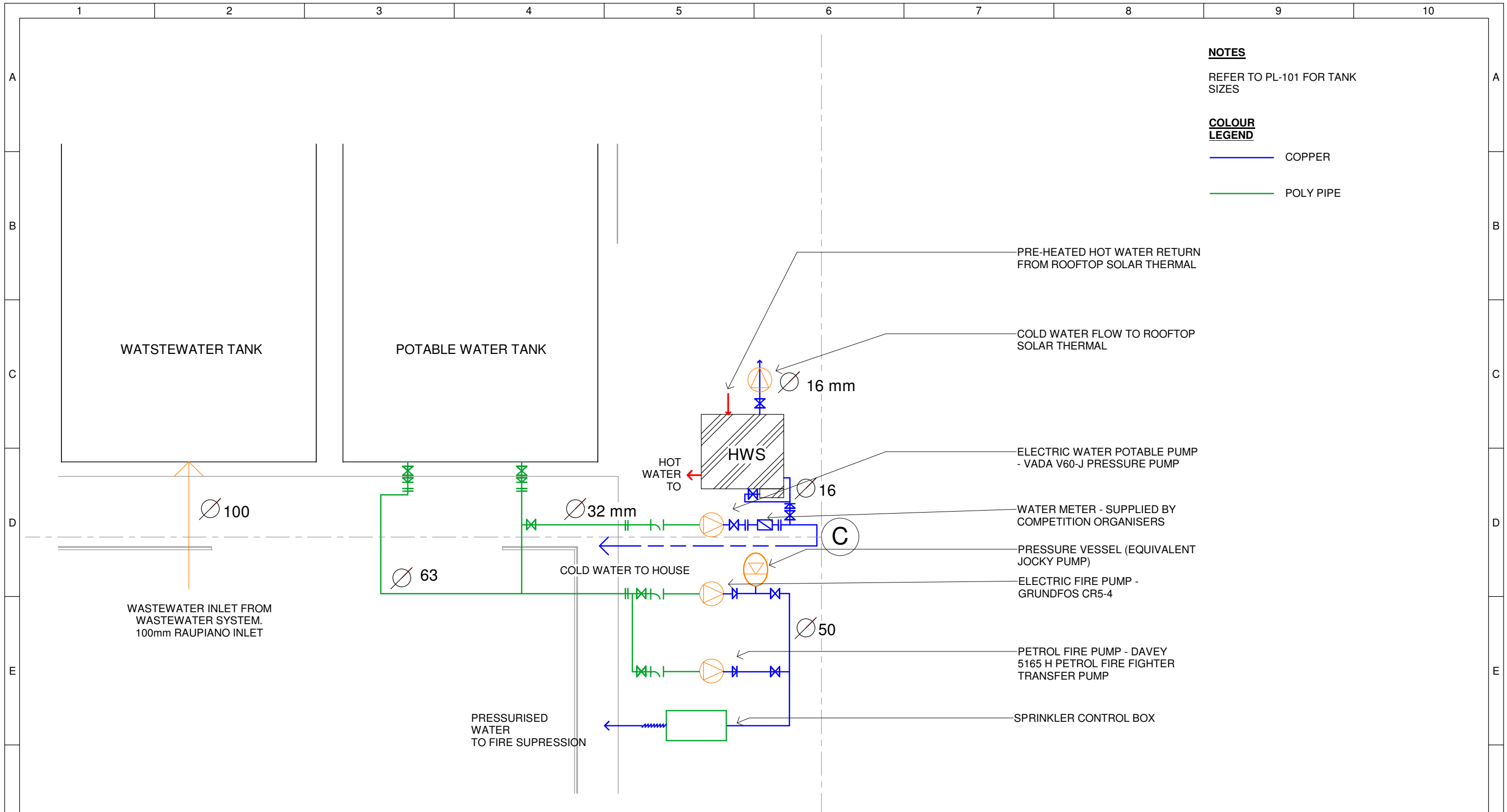
REFER TO PL-101 FOR TANK SIZES AND CAPACITIES.

SEE PL-201-1 FOR DETAILS OF PIPE SIZING AROUND PUMPING SKID. ELSE ALL PIPEWORK IS

1 Supply (Cold)
1 : 100

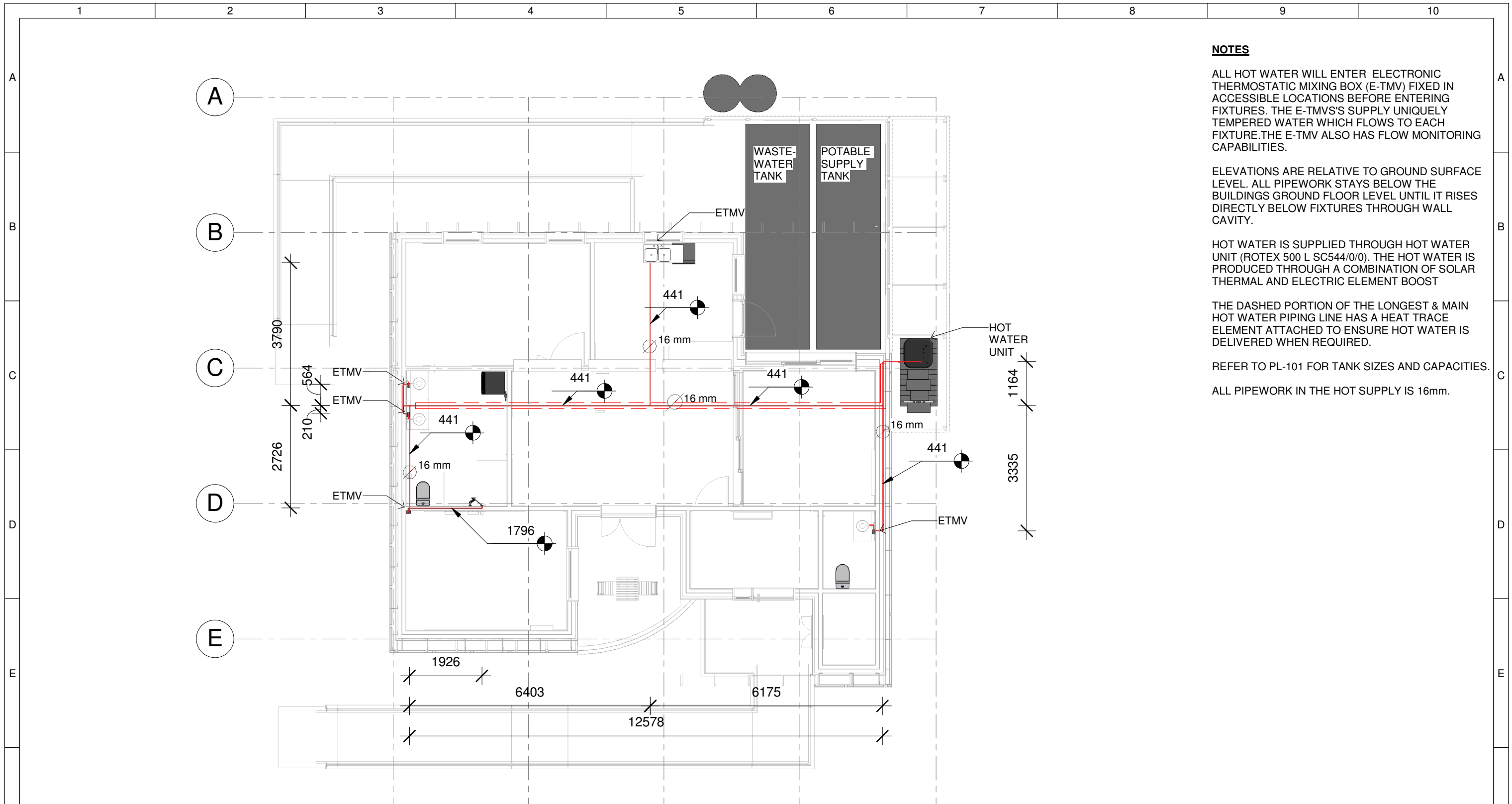


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	REV.	DESCRIPTION	DATE	DRAWN	CHECK											
1	Updated to As-Built	14/09/18	VP	DS												
<p>1 2 3 4 5 6 7 8 9 10</p>																



1 Cold Water and Plumbing Skid Callout
 1 : 25

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	REV.	DESCRIPTION	DATE	DRAWN	CHECK										
1	Updated to As-Built	14/09/18	VP	DS											
Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au	SHEET: 02 OF 02														



NOTES

ALL HOT WATER WILL ENTER ELECTRONIC THERMOSTATIC MIXING BOX (E-TMV) FIXED IN ACCESSIBLE LOCATIONS BEFORE ENTERING FIXTURES. THE E-TMVS'S SUPPLY UNIQUELY TEMPERED WATER WHICH FLOWS TO EACH FIXTURE. THE E-TMV ALSO HAS FLOW MONITORING CAPABILITIES.

ELEVATIONS ARE RELATIVE TO GROUND SURFACE LEVEL. ALL PIPEWORK STAYS BELOW THE BUILDINGS GROUND FLOOR LEVEL UNTIL IT RISES DIRECTLY BELOW FIXTURES THROUGH WALL CAVITY.

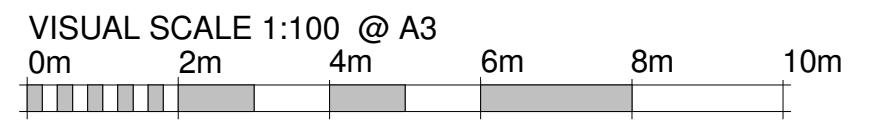
HOT WATER IS SUPPLIED THROUGH HOT WATER UNIT (ROTEX 500 L SC544/0/0). THE HOT WATER IS PRODUCED THROUGH A COMBINATION OF SOLAR THERMAL AND ELECTRIC ELEMENT BOOST

THE DASHED PORTION OF THE LONGEST & MAIN HOT WATER PIPING LINE HAS A HEAT TRACE ELEMENT ATTACHED TO ENSURE HOT WATER IS DELIVERED WHEN REQUIRED.

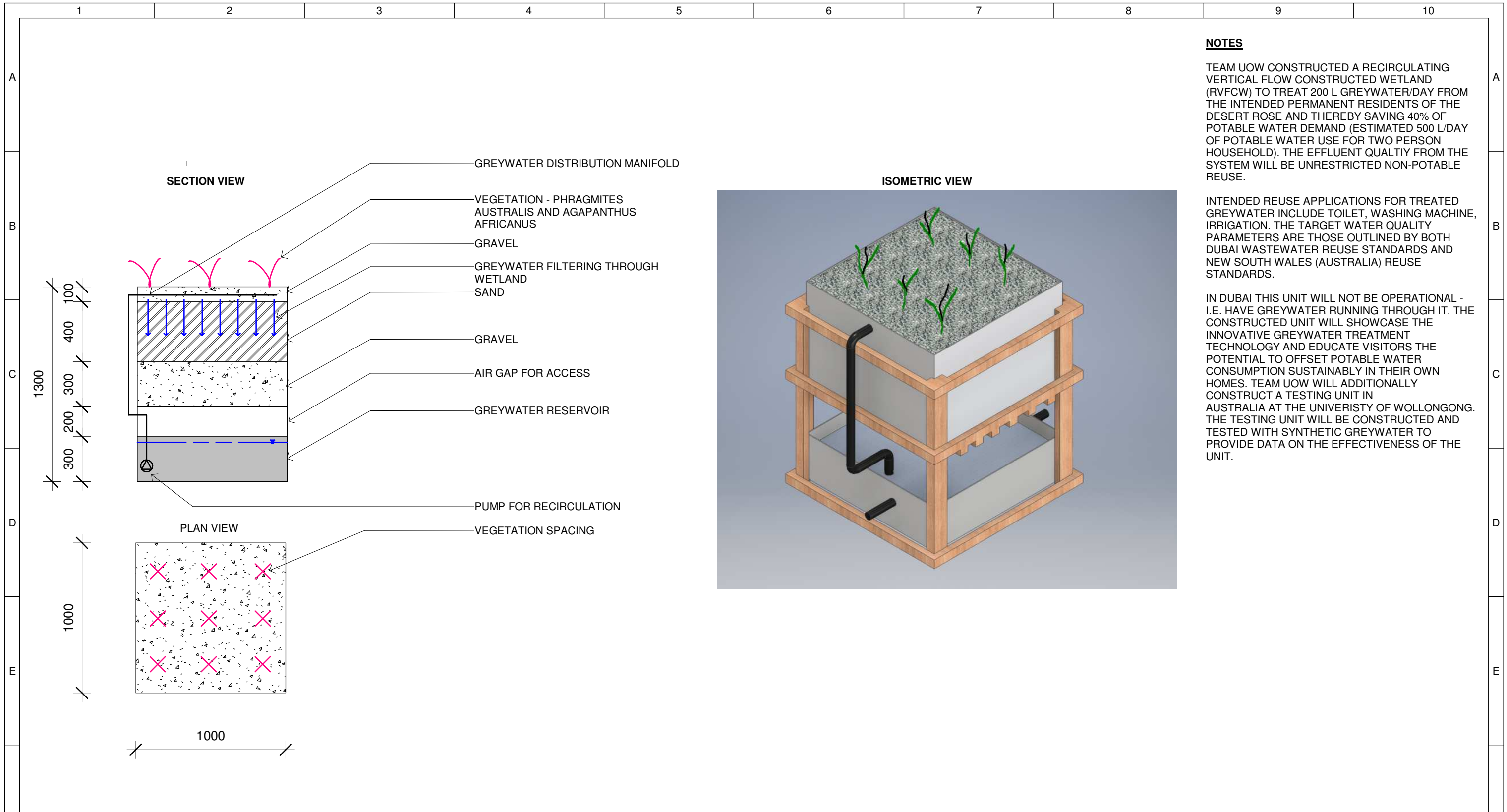
REFER TO PL-101 FOR TANK SIZES AND CAPACITIES.

ALL PIPEWORK IN THE HOT SUPPLY IS 16mm.

1 Supply (Hot)
1 : 100



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1	Updated to As-Built	14/09/18	VP	DS												
1	2	3	4	5	6	7	8	9	10							



NOTES

TEAM UOW CONSTRUCTED A RECIRCULATING VERTICAL FLOW CONSTRUCTED WETLAND (RVFCW) TO TREAT 200 L GREYWATER/DAY FROM THE INTENDED PERMANENT RESIDENTS OF THE DESERT ROSE AND THEREBY SAVING 40% OF POTABLE WATER DEMAND (ESTIMATED 500 L/DAY OF POTABLE WATER USE FOR TWO PERSON HOUSEHOLD). THE EFFLUENT QUALITY FROM THE SYSTEM WILL BE UNRESTRICTED NON-POTABLE REUSE.

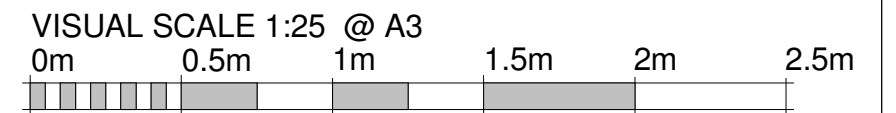
INTENDED REUSE APPLICATIONS FOR TREATED GREYWATER INCLUDE TOILET, WASHING MACHINE, IRRIGATION. THE TARGET WATER QUALITY PARAMETERS ARE THOSE OUTLINED BY BOTH DUBAI WASTEWATER REUSE STANDARDS AND NEW SOUTH WALES (AUSTRALIA) REUSE STANDARDS.

IN DUBAI THIS UNIT WILL NOT BE OPERATIONAL - I.E. HAVE GREYWATER RUNNING THROUGH IT. THE CONSTRUCTED UNIT WILL SHOWCASE THE INNOVATIVE GREYWATER TREATMENT TECHNOLOGY AND EDUCATE VISITORS THE POTENTIAL TO OFFSET POTABLE WATER CONSUMPTION SUSTAINABLY IN THEIR OWN HOMES. TEAM UOW WILL ADDITIONALLY CONSTRUCT A TESTING UNIT IN AUSTRALIA AT THE UNIVERSITY OF WOLLONGONG. THE TESTING UNIT WILL BE CONSTRUCTED AND TESTED WITH SYNTHETIC GREYWATER TO PROVIDE DATA ON THE EFFECTIVENESS OF THE UNIT.

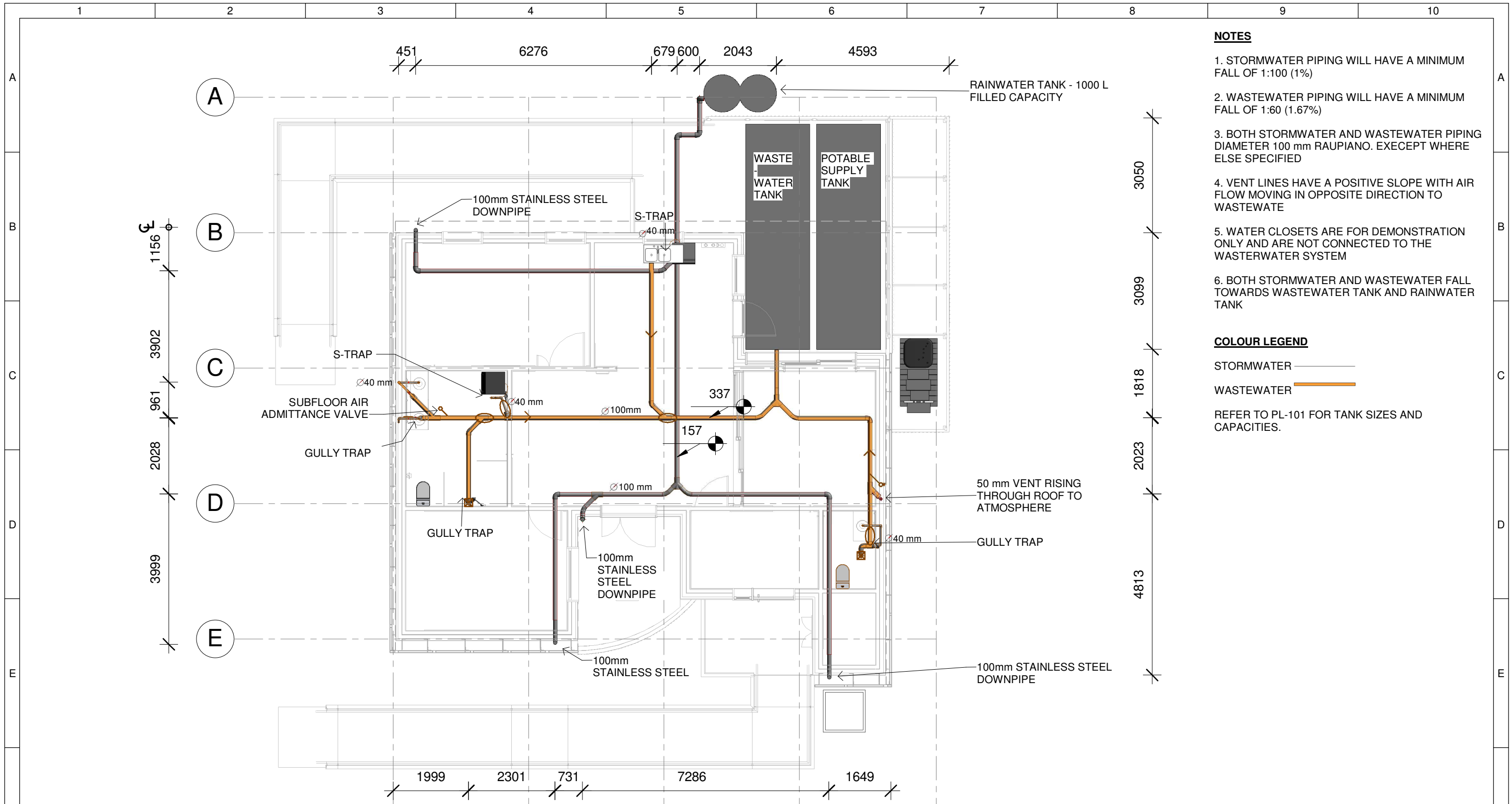
Greywater Treatment System

1

1 : 25



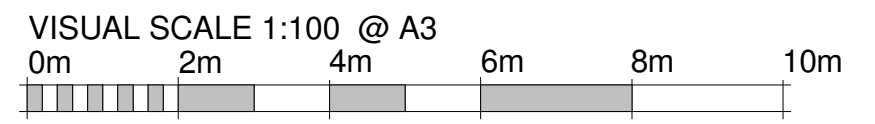
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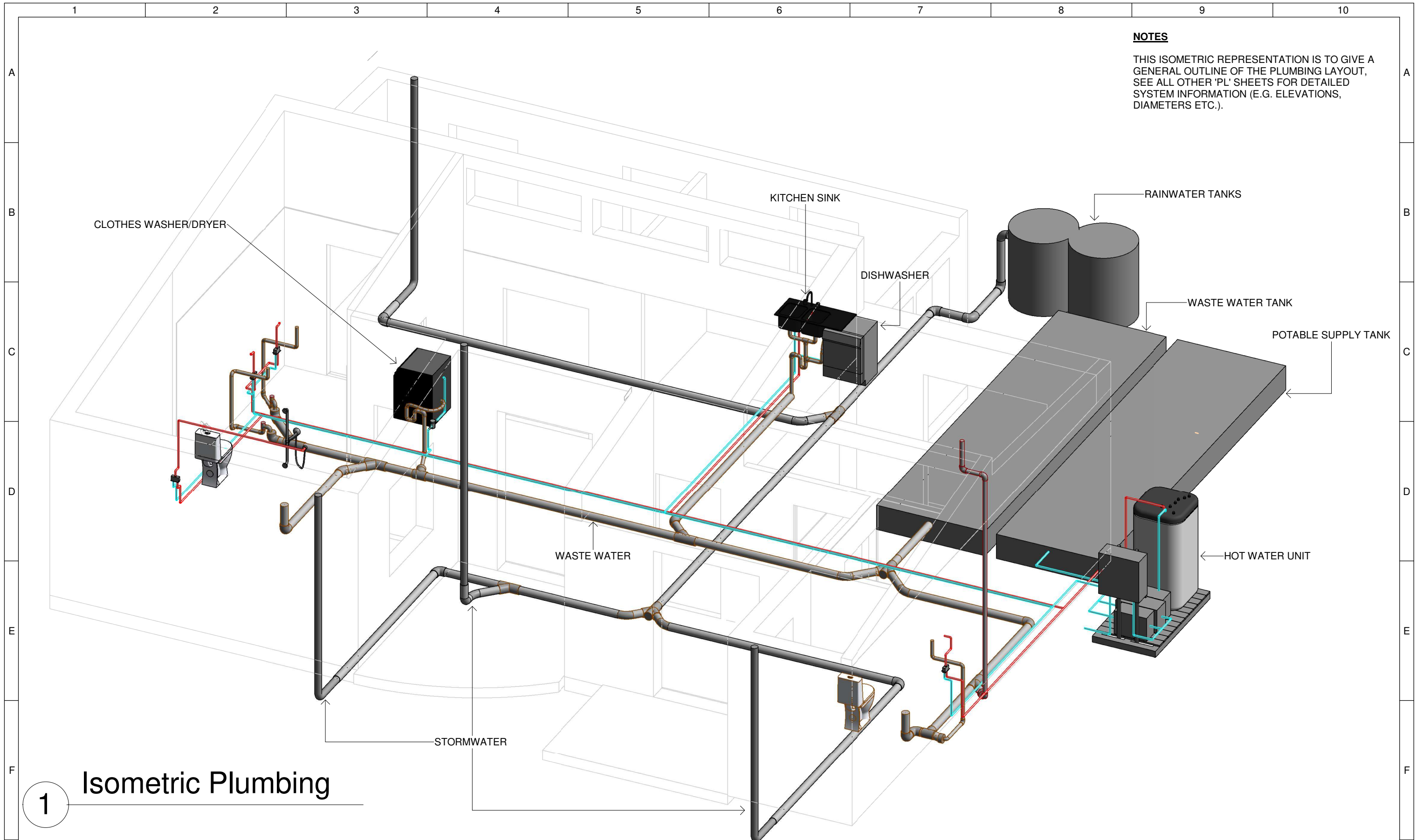
- NOTES**
1. STORMWATER PIPING WILL HAVE A MINIMUM FALL OF 1:100 (1%)
 2. WASTEWATER PIPING WILL HAVE A MINIMUM FALL OF 1:60 (1.67%)
 3. BOTH STORMWATER AND WASTEWATER PIPING DIAMETER 100 mm RAUPIANO. EXCEPT WHERE ELSE SPECIFIED
 4. VENT LINES HAVE A POSITIVE SLOPE WITH AIR FLOW MOVING IN OPPOSITE DIRECTION TO WASTEWATER
 5. WATER CLOSETS ARE FOR DEMONSTRATION ONLY AND ARE NOT CONNECTED TO THE WASTEWATER SYSTEM
 6. BOTH STORMWATER AND WASTEWATER FALL TOWARDS WASTEWATER TANK AND RAINWATER TANK

- COLOUR LEGEND**
- STORMWATER (grey line)
 - WASTEWATER (orange line)
- REFER TO PL-101 FOR TANK SIZES AND CAPACITIES.

1 Wastewater
1 : 100



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DRAWER	D.SIMPSON																							
CHECKED	C.MCDOWELL																							
DATE	20 February, 2018																							
SCALE	1 : 100 @ A3																							



1 Isometric Plumbing

	Team: TEAM UOW	Client: Dubai Electricity and Water Authority 	AMENDMENTS				COPYRIGHT		ISOMETRIC PLUMBING PL-231
	Address: UNIVERSITY OF WOLLONGONG WOLLONGONG NSW, AUSTRALIA 2522		REV. DESCRIPTION	DATE	DRAWN	CHECK	None; Project is Public		
	Contact: sd-2018@uow.edu.au www.desertrosehouse.com.au		1 Updated to As-Built	14/09/18	VP	DS	LOT # M	DRAWER D.SIMPSON	
							CHECKED C.MCDOWELL	SHEET: 01 OF 01	
					DATE 20 February, 2018				
					SCALE N.T.S. @ A3				