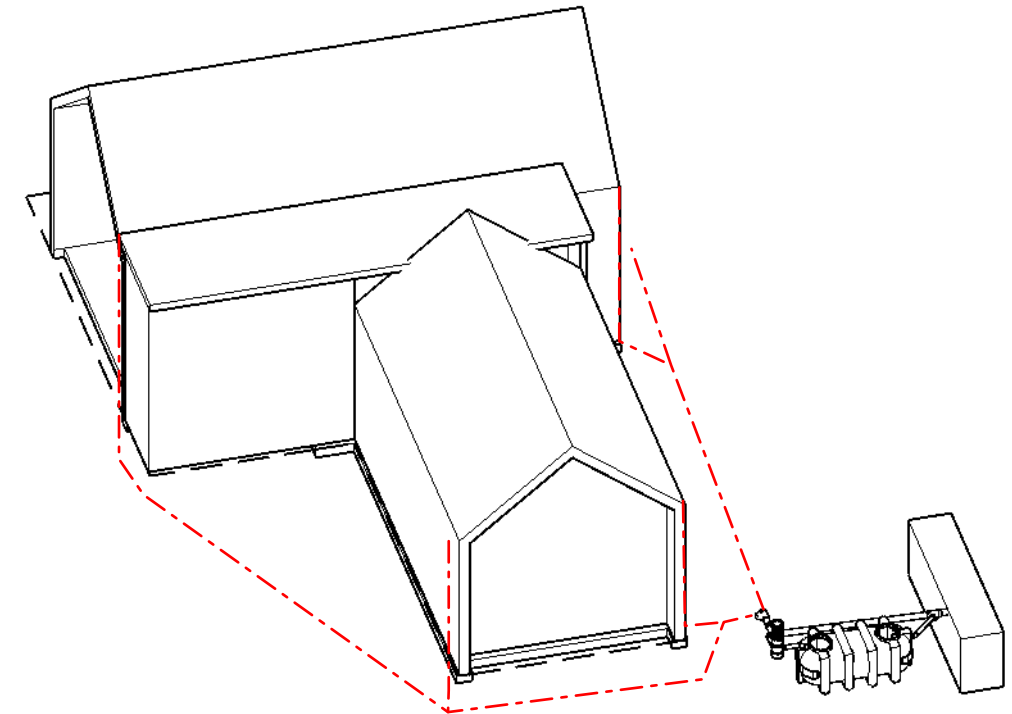


RAINWATER HARVESTING SYSTEM

YOUR - RAINWATER SYSTEM



TAG	EQUIPMENT SCHEDULE
RSM	RAINSEEKER MAXIMUS 1000 USG SYSTEM - UNDERGROUND
RWT 1	- RAINWATER TANK 1000 USG
PRF	- RAINWATER PREFILTER
ACL	- SMOOTHING INLET
FLI	- FLOATING INTAKE
OVF	- SKIMMING OVERFLOW BACKWATER VALVE
TLN	- TANK LEVEL SENSOR
TLSD	- TANK LEVEL SENSOR DISPLAY
RPMP	RAINWATER PUMP - 120 VAC
UV	DUAL FILTRATION AND UV SYSTEM
FOT	FLOAT SWITCH LOW LEVEL
SOLV	SOLENOID VALVE 120 VAC - 1 AMP MAX

NOT INCLUDED
AVAILABLE FOR ADDITIONAL FEE

TAG	PIPE AND WIRE SCHEDULE	
A	GUTTER	4" MIN GUTTER (METAL, PVC, PLASTIC)
B	DOWNPIPE	3" MIN DOWNPIPE (METAL, PVC, PLASTIC)
C	UNDERGROUND	4" DIAMETER @ 1.5% SLOPE (PVC DRAIN, SDR35, SCH40)
D	UNDERGROUND	6" DIAMETER @ 0.75% SLOPE (PVC DRAIN, SDR35, SCH40)
E	SUPPLY PIPE UNDERGROUND (BELOW FROST OR HEAT TRACE)	1.25" DIAMETER (PVC, POLY OR COPPER)
F	SUPPLY PIPE INTERIOR	1.0" DIAMETER (PVC, PEX, POLY OR COPPER)
G	SENSOR WIRE	4 C - SHEILDDED 16 AWG (4 CONDUCTOR)
H	FLOAT SWITCH WIRES	2C - 16 AWG
I	PUMP POWERS	PROVIDED POWER CORD
J	TANK TOP UP - MAKE UP PIPE	2" DIAMETER 1.5% SLOPE (PVC SCH 40 or SCH 80)
K	ELECTIRCAL CONDUIT	1" DIAMETER (PVC OR OTHER BURIAL CONDUIT)

CLEAN FLO WATER TECHNOLOGIES DESIGNED THE SYSTEM TO MEET THE CSA B805 STANDARDS TO PROVIDE A POTABLE RAINWATER HARVESTING WATER SYSTEM.

IF THE INSTALLTION IS IN ACCORDENCE WITH CLEANFLO WRITTEN INSTRUCTION THIS SYSTEM WILL PROVIDE POTABLE WATER. IT IS THE OWNER / OPERATORS RESPONSIBILITY TO ENSURE THE RAINWATER HARVESTING SYSTEM IS INSTALLED AND OPERATING PROPERLY. INITIAL AND ONGOING MAINTENANCE AND MONITORING IS REQUIRED AND MUST BE PERFORMED BY THE OWNER OR UNDER THE OWNER'S DIRECTION.

IF INSTRUCTIONS ARE NOT FOLLWED OR MAINTIANCE IS NOT PERFORMED OR UNKOWN SUBSTANCES ARE INTRUDCED INTO THE RAINWATER SYSTEM THE SYSTEM MAY NOT BE SAFE AND THERFORE REGULAR WATER TESTING IS REQUIRED. CLEANFLO IS NOT RESPONSIBLE FOR THE WATER QUALITY THIS SYSTEM PRODUCES. USE WATER AT YOUR OWN RISK.

TIERS	WATER USES
R1	NON-POTABLE, TRAP PRIMERS, FIRE SUPPRESSION, IRRIGATION
R2	NON-POTABLE, TOILETS/URINALS, LAUNDRY MACHINE
R3	NON-POTABLE, HOSE BIBS, PRESSURE WASHING, VEHICLE WASHING
R4	POTABLE, HUMAN CONSUMPTION, ORAL CARE, FOOD PREPARATION, DISHWASHING, BATHING/SHOWERING, POOL/HOT TUBS

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PAGE	TITLE	DESCRIPTION
1	COVER PAGE	PROVIDES PROJECT OVERVIEW
2	SYSTEM OVERVIEW	SYSTEM DESCRIPTION AND DESIGN NARRATIVE WATER TESTING OVERVIEW
3	GENERAL INFORMATION SHEET	TECHNICAL SPECIFICATIONS OF SYSTEM
4	SCHEMATIC	RAINWATER HARESTING SYSTEM SCHEMATIC
5	SITE PLAN	SITE PLAN DRAWING- LOCATION OF MAJOR EQUIPMENT.
6-9	DRAWINGS	DETAILED DRAWING OF RAINWATER SYSTEM
10-12	INSTALLATION	INSTALLTION SPECIFICATIONS

DESCRIPTION

THIS SYSTEM IS DESIGN TO MEET CANADIAN PLUMBING CODES AND CSA STANDARDS FOR RAINWATER HARVESTING CSA B805.

THE OVERALL SYSTEM DESIGN EMPLOYS A MULTI BARRIER APPROACH TO WATER QUALITY. THE FIRST STEP IS THE PRE-FILTER. THE SECOND STEP IS THE RAINWATER TANK DESIGN. THE THIRD STEP IS THE WATER TREATMENT SYSTEM.

CLEAN FLO SYSTEMS ARE DESIGNED FROM "ROOF TO TAP" ! WITH ATTENTION TO EVERY DETAIL OF YOUR RAINWATER HARVESTING SYSTEM. WHEN YOU PURCHASE THE COMPLETE SYSTEM FROM CLEAN FLO, IT IS PART OF A COMPLETE PACKAGE THAT WE WILL PROVIDE SUPPORT AND SERVICE FOR THE LIFE OF THE SYSTEM

THIS RAINWATER HARVESTING SYSTEM IS DESIGNED AS A SECONDARY SOURCE OF WATER FOR NON-POTABLE PURPOSES, SUCH AS TOILETS, LAUNDRY AND IRRIGATION. WITH BACK-UP WATER SOURCE FROM DOMESTIC POTBALE WATER IF THE RAINWATER TANK IS EMPTY.

THE SYSTEM WILL PROVIDE WATER FOR WATER USES TIER: R3 - NON-POTABLE DOMESTIC

ROOF

THE SYSTEM WILL BE HARVESTING RAIN FROM ONE BUILDING THE ROOF. THE ROOF IS PROVIDED BY OTHERS AND SHOULD BE SUITABLE FOR INTENDED USE.

GUTTER, DOWNPIPES AND CONVEYANCE PIPING

THE GUTTERS, DOWNPIPES, AND CONVEYANCE PIPING IS SIZED BASED ON SPECIFICATIONS FROM THE DESIGNS. THE GUTTERS, DOWNPIPE AND CONVEYANCE PIPING IS PROVIDED BY OTHERS AND SHOULD BE SUITABLE FOR INTENDED USE.

PREFILTER

THE SYSTEM WILL REQUIRE ONE (1) PRE-FILTER. THIS PRE-FILTERS OPERATE AS BOTH A FIRST FLUSH DIVERTER AND PREFILTER, WITH A FILTER MESH SIZE OF 320 MICRONS. THE FULL CROSS-SECTION (PIPE DIAMETER) OF THE RAINWATER DRAINAGE SYSTEM REMAINS CONTINUOUSLY OPEN, AND THERE ARE NO REDUCTION IN THE CROSS-SECTION OF THIS APPLIANCE IN WHICH DIRT OR WATER CAN COLLECT.

RAINWATER TANK / CISTERN

THIS SYSTEM WILL PROVIDE A TOTAL OF 1000 USG OF RAINWATER STORAGE. WITH A TOTAL OF ONE (1) BELOW GROUND TANK(S), MADE OF POLYETHYLENE. EACH TANK IS 1000 USG.

THE RAINWATER TANK IS DESIGNED TO PROVIDE SAFE STORAGE OR RAINWATER, WHICH IMPROVES WATER QUALITY BECAUSE OF IT'S DESIGN AND FUNCTION. THE CALMING INLET PREVENTS AGITATION OF SETTLED FINE DUST, THE SKIMMING OVERFLOW REMOVES FLOATING PARTICLES AND THE FLOATING FILTER ENSURES WATER IS DRAWN INTO THE PUMP FROM APPROXIMELY 150 mm (6.0") BELOW THE SURFACE OF THE WATER.

WATER PUMPING AND TREATMENT SYSTEM

CLEAN FLO DETERMINED THE WATER DEMAND TO BE 8 GPM @ 60 PSI. THIS WILL BE PUMPED BY BOOSTER PUMP. THE TREATMENT WILL BE THREE STAGES TO ENSURE WATER IS SAFE TO USE. STAGE ONE IS A SEDIMENT FILTER OF 5. STAGE TWO A 10 MICRON CARBON FILTER. . STAGE THREE IS ULTRAVIOLET SANITATION (UV) SYSYEM.

WATER QUALITY AND TREATMENT

CLEAN FLO DESIGNED THIS SYSTEM TO PRODUCE WATER THAT IS SAFE FOR CSA B805 R3 USES; NAMELY NON-POTABLE DOMESTIC.

WATER TESTING

DANGER!!

IF THERE ARE ANY NOTICEABLE CHANGES IN WATER QUALITY (IE. COLOUR, SMELL, TASTE, ETC.) STOP USING WATER AND PERFORM BOTH BACTERIOLOGICAL AND CHEMICAL TESTS IMMEDIATELY.

BACTERIOLOGICAL TEST

THIS TEST SHOULD BE PERFORMED AT A FREQUENCY OF SIX MONTHS AT A LOCAL ACCREDITED WATER TESTING LAB. BACTERIOLOGICAL SAMPLES WILL RAPIDLY BECOME UNREPRESENTATIVE OF THE WATER SUPPLY IF THE TEST IS NOT PERFORMED SOON AFTER TAKING THE SAMPLE

THESE TESTS INCLUDE BUT ARE NOT LIMITED TO: E.COLI, AND TOTAL COLIFORMS

CHEMICAL TEST

THIS TEST SHOULD BE PERFORMED AT A FREQUENCY OF ONE YEAR AT AN ACCREDITED WATER TESTING LAB. WHILE CHEMICAL TESTS ARE LESS TIME SENSITIVE, IT IS ADVISED TO DELIVER YOUR SAMPLE TO THE LAB WITHIN 24 HOURS OF TAKING THE SAMPLE

THESE TEST INCLUDE BUT ARE NOT LIMITED TO: HEAVY METALS, TOTAL ORGANIC CARBON, PH, TURBIDITY, TOTAL DISSOLVED SOLIDS, NITRATES, HARDNESS, AND CONDUCTIVITY.

POTENTIAL LOCAL TEST FACILITY

WHEN USING THE SERVICES OF A LOCAL TESTING FACILITY THEY WILL ENSURE THE TEST RESULTS AND TOLERANCES CONFORM TO LOCAL REGULATIONS ON WATER QUALITY.

WATER TEST RESULTS

PLEASE KEEP A LOG OF TEST RESULTS IN THE TABLE AT THE BACK OF THIS DOCUMENT. PLEASE FILE THE ORIGINAL WATER TEST RESULT DOCUMENTATION IN THE FOLDER AT THE BACK OF THESE DOCUMENTS.

WATER TESTING LOG

**PERFORM A BACTERIOLOGICAL TEST ON THE WATER EVERY 6 MONTHS
PERFORM A CHEMICAL TEST ON THE WATER EVERY YEAR**

STORE THE ORIGINAL WATER QUALITY TEST RESULTS IN FOLDER AT BACK

THE FIRST WATER TEST SHOULD BE RECORED BELOW AS THE BASELINE WATER TEST.

BASELINE TEST DATE (DD/MM/YYYY)	TEST COMPLETE DATE (DD/MM/YYYY)	TEST RESULT



VANCOUVER MAIN OFFICE
250 - 997 Seymour Street
Vancouver, BC V6B 3M1

PH: 778 - 200 - 7356
TF: 877-306-2146

SASKATCHEWAN MAIN OFFICE
5 Commercial Drive
Craik, SK S0G 0V0
PO Box 128

PH: 306-988-7909
TF: 877-306-2146

TORONTO MAIN OFFICE
300 - 3660 Midland Avenue
Toronto, ON M1V 0B0

PH: 647 931-3356
TF: 877-306-2146

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SYSTEM NAME: YOUR - RAINWATER SYSTEM

SYSTEM TYPE: R2-R3 NON-POTABLE
OWNERS: YOUR
LOCATION: 123 ADDRESS

EMERGENCY CONTACT

FIRST POINT - INSTALLERS ABC1234 CONTRACTING

SECOND POINT - DESIGNER CLEANFLO WATER TECHNOLOGIES, CANADA
1-877-306-2146

MAINTENANCE PERSONS OWNER

SCOPE OF SYSTEM SUPPLY

WATER USES TEIR: R2 AND R3 NON POTBALE
PRIMARY WATER SOURCE: RAINWATER
SECONDARY WATER SOURCE: CITY BACK UP
NUMBER OF PEOPLE SERVED: 6 / DAY

NUMBER OF FIXTURES

HOSE BIBS: 3
YARD HYDRANT: 0
FAUCETS: 0
LAUNDRY: 1
TOILETS: 4
DISHWASHER: 0
BATH/SHOWER: 0
MECH. EQUIPMENT: 0
FIRE SUPPRESSION: 0

SECONDARY WATER SOURCE

TYPE: CITY BACK UP
AUTOMATIC BY-PASS SYSTEM CITY WATER TANK TOP UP

SYSTEM DESIGN AND SPECS.

DESIGNER: CLEANFLO WATER TECHNOLOGIES, 1-877-306-2146
DATE COMPLETED: NOV 2021

SYSTEM SPECIFICATIONS

ROOF COLLECTION AREA: ~ 2159 SQFT
ROOF MATERIAL: METAL
GUTTER MATERIAL: METAL
DOWNSPOUT MATERIAL: ALUMINUM, PVC SDR 35, PVC DRAIN PIPE
CONVEYANCE PIPING MATERIAL: ALUMINUM, PVC SDR 35, PVC DRAIN PIPE

STORAGE TANK SPECIFICATIONS

TOTAL VOLUME: 1000 USG
NUMBER OF TANKS: 1
VOLUME OF EACH TANK: 1000 USG
TANK TYPE: BELOW GROUND
TANK MATERIAL: POLYETHYLENE

TANK DIMENSIONS

LENGTH: 133"
WIDTH: 62"
HIEGHT: 51 "
DIAMETER: NA

PRE-FILTER SPECIFICATIONS

TYPE OF PREFILTER: WISY VORTEX
NUMNER OF PRE-FILTERS: 1
PRE-FILTRATION MESH SIZE: 320 MICRONS
MAXIMUIM INLET FLOW RATE: 12 LITERS PER SECOND

PUMP SPECIFICATIONS

BRAND: CLEANFLO VFD CONSTANT PRESSURE SYSTEM
MODEL: DABS DTRON 2
DESIGN FLOW RATE: 8 USGPM
MAXIMUN PSI @ 10 GPM: 74 PSI

POWER SPECIFICATIONS

HORSE POWER: 1.1 HP
VOLTAGE: 115 VAC
AMPS: ~ 7.5 A
WATTS: 1500 W

WATER TREATMENT SPECIFICATIONS

TYPE: CLEANFLO
BRAND: VIDA REUSE
MODEL: COMR3
AGE OF EQUIPMENT: NEW

7 MIN PEAK WATER DEMAND

FIXTURES	QUANTITY	FLOW RATE (LPM)	RUN TIME	7 MIN PEAK
SHOWER OR BATH	0	8.3	7 MIN	0 L
HOSE BIB	1	5.3	7 MIN	37.1 L
1 FLUSH PER TOILET	3	2.7	6.0L/FLUSH	18.0 L
KITCHEN SINK	0	1.6	0.5 MIN	0
WASHING MACHINE	1	19	100L/CYCLE	100 L
DISHWASHER	0	7.6	30L/CYCLE	0 L

TOTAL 7 MIN PEAK 155 L

BASED ON THIS PEAK DEMAND CLEANFLO SPECIFIES A MAX FLOW RATE OF 8 US GPM. **LPM 22**
US GPM 5.8

TOTAL DYNAMIC HEAD

DESIGN FLOW RATE: 8 GPM

SUPPLY PIPE

1.0" @ 50FT (2.5 PSI LOSS/100FT) 1.25 PSI / 2.9 FT HEAD
(NPSH MUST BE MET FOR BOOSTER PUMP)

TREATMENT SKID

PSI LOSS VARIES AS WATER FILTERS BECOME CLOGGED 10 PSI / 23 FT HEAD

DISTRIBUTION PIPE

8 GPM - 1.0" @ 20FT (2.5 PSI LOSS/100FT)
8 GPM - 0.75" @ 50FT (8.7 PSI LOSS/100FT) 10.2 PSI / 24 FT HEAD
4 GPM - 0.5" @ 50FT (10.5 PSI LOSS/100FT)
TOTAL 0.5 + 4.4 + 5.3 = 10.2

MINOR LOSSES: VALVES, FITTINGS

~ 20FT (10.5 PSI LOSS/100FT) 2.1 PSI / 4.9 FT HEAD

ELEVATION HEAD

20FT (1.0 PSI LOSS/2.33FT) 8.6 PSI / 20 FT HEAD

STATIC PSI

30 PSI 30 PSI / 70 FT HEAD

TOTAL

62 PSI / 144 FT HEAD



VANCOUVER MAIN OFFICE
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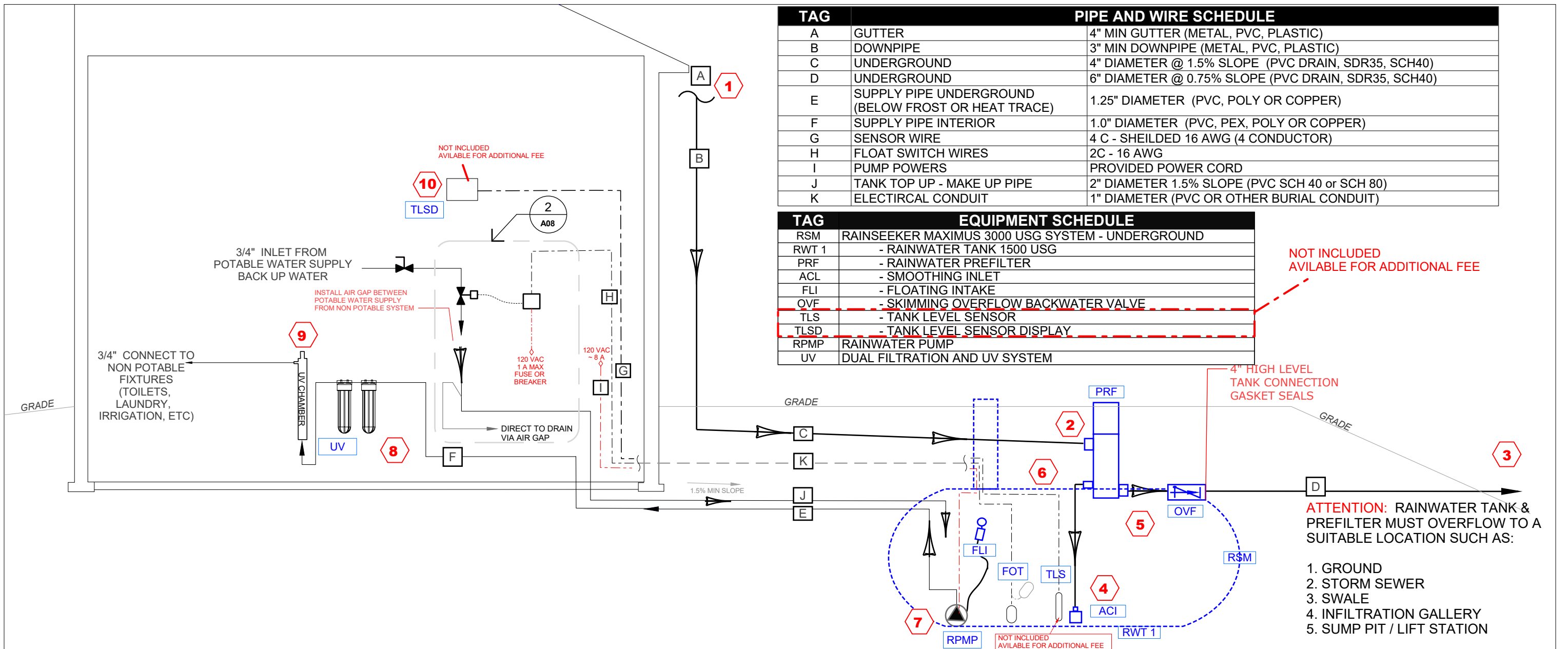
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C	UNDERGROUND	4" DIAMETER @ 1.5% SLOPE (PVC DRAIN, SDR35, SCH40)
D	UNDERGROUND	6" DIAMETER @ 0.75% SLOPE (PVC DRAIN, SDR35, SCH40)
E	SUPPLY PIPE UNDERGROUND (BELOW FROST OR HEAT TRACE)	1.25" DIAMETER (PVC, POLY OR COPPER)
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K	ELECTIRCAL CONDUIT	1" DIAMETER (PVC OR OTHER BURIAL CONDUIT)

TAG	EQUIPMENT SCHEDULE
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RWT 1	- RAINWATER TANK 1500 USG
PRF	- RAINWATER PREFILTER
ACL	- SMOOTHING INLET
FLI	- FLOATING INTAKE
OVF	- SKIMMING OVERFLOW BACKWATER VALVE
TL	- TANK LEVEL SENSOR
TLSD	- TANK LEVEL SENSOR DISPLAY
RPMP	RAINWATER PUMP
UV	DUAL FILTRATION AND UV SYSTEM

NOT INCLUDED AVAILABLE FOR ADDITIONAL FEE

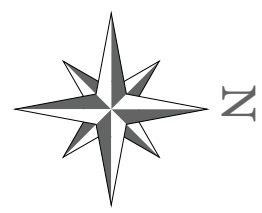
4" HIGH LEVEL TANK CONNECTION GASKET SEALS

ATTENTION: RAINWATER TANK & PREFILTER MUST OVERFLOW TO A SUITABLE LOCATION SUCH AS:

1. GROUND
2. STORM SEWER
3. SWALE
4. INFILTRATION GALLERY
5. SUMP PIT / LIFT STATION

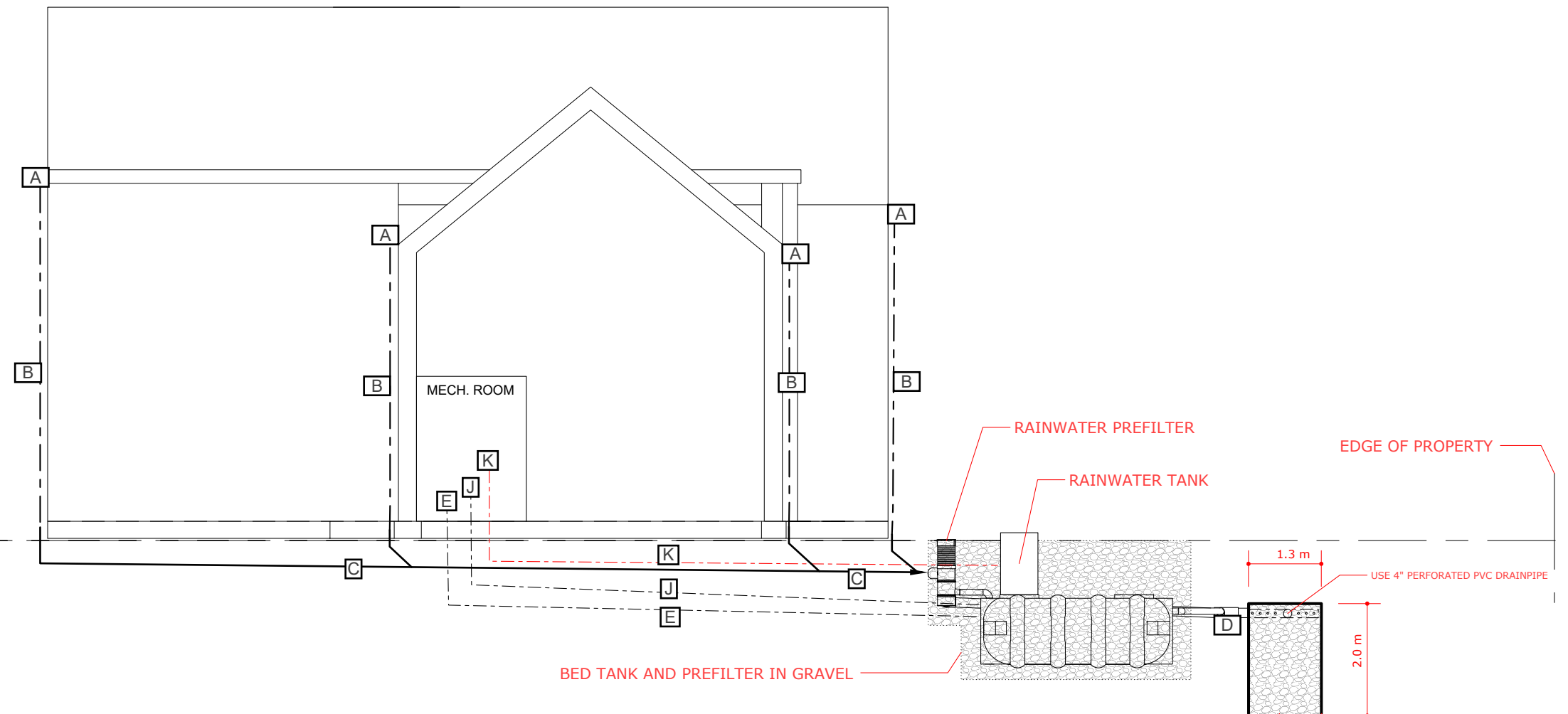
SEQUENCE OF OPERATION

1	RAINWATER IS CAPTURED FROM THE ROOF. USING GUTTERS, ROOF DRAINS, AND PIPING RAINWATER IS CONVEYED TO THE PREFILTER. IF USING RAINWATER FOR POTABLE USE - REFER TO POTABLE ROOF AND GUTTER SPECIFICATION SHEETS.
2	RAINWATER ENTERS PREFILTER SELF CLEANING 3 IN1. PROVEN BASKETLESS TECHNOLOGY PROVIDES: 1) FIRST FLUSH ACTION 2) CONTINUOUS FILTRATION 320 MICRONS 3) AERATOR.
3	RAINWATER OVERFLOWS FROM PREFILTER AND RAINWATER TANK TO A SAFE LOCATION SUCH AS: GROUND, STORM SEWER, SWALE, INFILTRATION GALLERY OR SUMP PIT/ LIFT STATION.
4	FILTERED RAINWATER LEAVES THE PREFILTER AND ENTERS THE TANK VIA STAINLESS STEEL AERATOR AND CALMING INLET DEVICE. WHICH ADDS OXYGEN TO THE RAINWATER AND REDUCES VELOCITY OF INCOMING RAINWATER TO PREVENT AGITATION OF SEDIMENT ON RAINWATER TANK FLOOR.
5	WHEN THE RAINWATER TANKS ARE FULL OVERFLOWED RAINWATER IS DIRECTED THROUGH THE LAST TANK TO THE SKIMMING OVERFLOW, BACKWATER VALVE AND VERMIN GUARD THEN EXITS THE SYSTEM.
6	WHEN REUSING RAIN IT FIRST PASSSESS THROUGH A STAINLESS STEEL FLOATING INTAKE DEVICE. WHICH DRAWS IN RAINWATER TO THE PUMP FROM 150MM(6.0") BELOW WATER SURFACE WHICH IS THE CLEANEST LENS (LAYER) OF WATER IN TANK.
7	WHEN THERE IS A DROP IN PRESSURE IN THE PLUMBING SYSTEM THE RAINWATER PUMP IS ACTIVATED ON. THE PUMP WITH ADJUST SPEED TO MAINTAIN A CONSTANT PRESSURE AND MINIMIZE ENERGY USE. RAINWATER IS PRESSURIZED INTO THE BUILDING BY THE PUMP SYSTEM.
8	RAINWATER UNDER PRESSURE FROM THE PUMP WILL FLOW THROUGH THREE STAGES OF FILTRATION. EACH FILTER IS 4.5" DIAMETER x 20" LONG. STAGE 1 IS 5 MICRON SEDIMENT FILTER, STAGE 2 IS 10 MICRON CARBON FILTER.
9	RAINWATER IS SANITIZED UV SYSTEM. THE UV SYSTEM IS DESIGNED TO CSA B805 AND PROVIDES DISINFECTION STAGE PROVIDING MIN 30 mJ/cm2.
10	THE TANK LEVEL IS MEASURED BY A LEVEL SENSOR INSIDE THE RAINWATER TANK. THE CURRENT AND HISTORICAL RAINWATER TANK LEVEL IS DISPLAYED ON THE TOUCH SCREEN.



SITE PLAN
(SCALE 1:192)

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K	ELECTIRCAL CONDUIT	1" DIAMETER (PVC OR OTHER BURIAL CONDUIT)



INFILTRATION GALLERY
ESTIMATED SIZE ONLY

250 SQ M ROOF AREA x 25 MM RAINFALL IN 24 HOURS
=6,250 L = 6.3M3

IF USING GRAVEL ASSUME 0.4 VOID SPACE RATIO
6.3M3 / 0.4 = 15.6M3 GRAVEL INFILTRATION GALLERY
(~ 20 CUBIC YARDS OF GRAVEL)

WITH A 1.3 M WIDTH AND 2M DEPTH REQUIRES A LENGHT
OF 6.0 M

RIGHT SIDE VIEW
(SCALE 1:96)

