RAINWATER HARVESTING SYSTEM

YOUR - RAINWATER HARVESTING SYSTEM

YOUR ADRESS

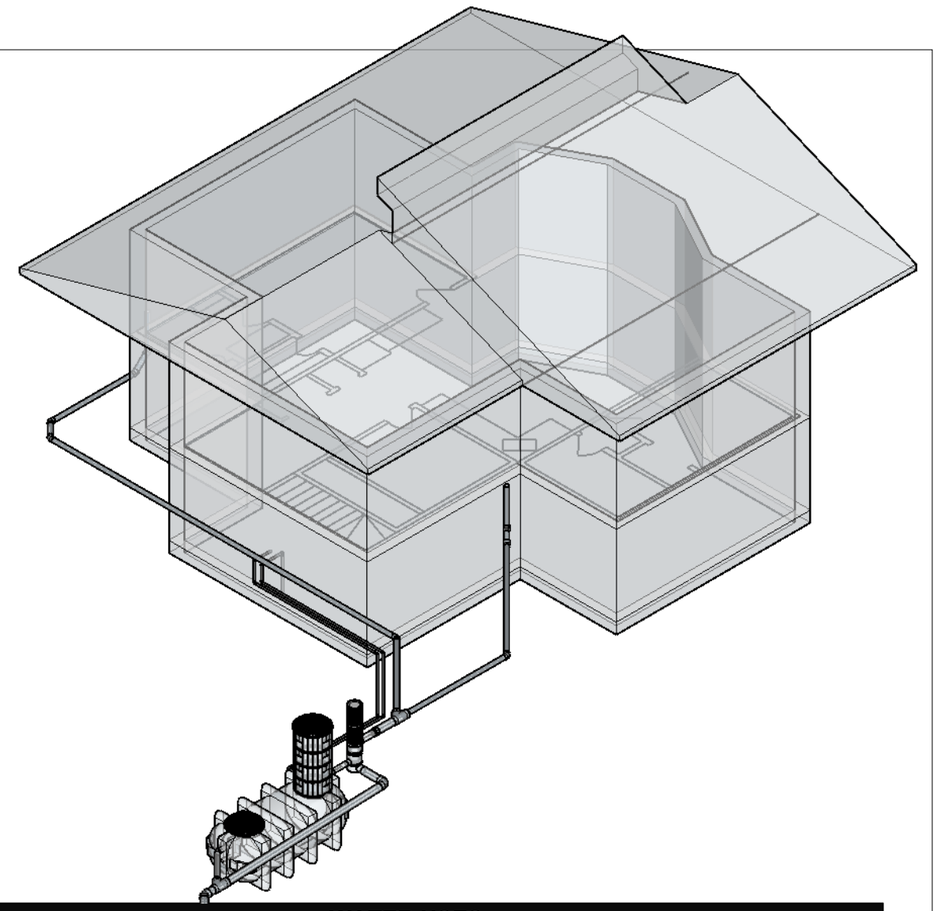
TAG	EQUIPMENT SCHEDULE
RSM	RAINSEEKER MAXIMUS 1000 USG SYSTEM - UNDERGROUND
PRF	- RAINWATER PREFILTER
RPMP	RAINWATER PUMP
UV	TRIPPLE FILTRATION AND UV SYSTEM
SOL	UV SOLENOID SHUT-OFF

TAG	PIPE AND WIRE SCHEDULE	
A	GUTTER	5" Wide @ 1% SLOPE
B	DOWNPIPE	3" X 2"
C	UNDERGROUND	4" DIAMETER @ 1.5% SLOPE
D	UNDERGROUND	6" DIAMETER @ 0.75% SLOPE (OPTIONALLY 4" DIA. @ 4% SLOPE)
E	SUPPLY PIPE UNDERGROUND	1.25" DIAMETER (PVC, POLY OR COPPER)
F	SUPPLY PIPE INTERIOR	1.25" DIAMETER (PVC, PEX, POLY OR COPPER)
G	SENSOR WIRE	4 C - SHEILDED 16 AWG (4 CONDUCTOR)

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 RESPONSIBLITY 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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CLEAN FLO WATER TECHNOLOGIES

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TORONTO MAIN OFFICE
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PH: 647 931-3356
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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 PRIMARY SOURCE OF WATER FOR POTABLE PURPOSES, SUCH AS DRINNKING, COOKING, BATHING, TOILETS, LAUNDRY. WITH BACK-UP WATER SOURCE FROM HAULED BULK POTBALE WATER IF THE RAINWATER TANK IS EMPTY.

THE SYSTEM WILL PROVIDE WATER FOR WATER USES TIER: R4 - POTABLE DOMESTIC

ROOF
THE SYSTEM WILL BE HARVESTING RAIN FROM ONE BUILDING THE ROOF IS METAL.

GUTTER, DOWNPIPES AND CONVEYANCE PIPING
THE GUTTERS, DOWNPIPES, AND CONVEYANCE PIPING IS SIZED BASED ON SPECIFICATIONS FROM THE DESIGNS.

PREFILTER
THE SYSTEM WILL REQUIRE ONE (1) PRE-FILTER. THESE 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. THE 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 MULTI STAGE BOOSTER PUMP POWERED BY VFD. THE TREATMENT WILL BE THREE STAGES TO ENSURE WATER IS SAFE AND NO STAINING ON FIXTURES. STAGE ONE IS A SEDIMENT FILTER OF 5 MICRONS. STAGE TWO A 10 CARBON FILTER. STAGE THREE A 1 MICRON ABSOLUTE SEDIMENT FILTER. STAGE FOUR IS ULTRAVIOLET SANITATION SYSTEM NSF 55 CLASS A.

WATER QUALITY AND TREATMENT
CLEAN FLO DESIGNED THIS SYSTEM TO PRODUCE WATER THAT IS SAFE FOR CSA B805 R4 USES; NAMELY 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

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SYSTEM NAME: - RAINWATER HARVESTING SYSTEM

SYSTEM TYPE: R4-POTABLE
OWNERS: YOU
LOCATION: YOUR ADDRESS

EMERGENCY CONTACT

FIRST POINT - INSTALLERS OWNER INSTALLED

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

MAINTENANCE PERSONS

OWNER

SCOPE OF SYSTEM SUPPLY

WATER USES TEIR: R4 POTBALE
PRIMARY WATER SOURCE: RAINWATER
SECONDARY WATER SOURCE: HAULED BULK WATER
NUMBER OF PEOPLE SERVED: 2 / DAY
ANNUAL WATER DEMAND: ~123, 735 LITERS
ANNUAL WATER HARVESTED: ~191, 637 LITERS

NUMBER OF FIXTURES

HOSE BIBS: 0
YARD HYDRANT: 0
FAUCETS: 4
LAUNDRY: 1
TOILETS: 2
DISHWASHER: 0
BATH/SHOWER: 2
MECH. EQUIPMENT: 4
FIRE SUPRESSION: 0

SECONDARY WATER SOURCE

TYPE: HAULED BULK POTABLE WATER
AUTOMATIC BY-PASS SYSTEM NA

DESCRIPTION / COMMENTS: HAULED BULK WATER IS THE ONLY ALTERNITIVE SOURCE

SYSTEM DESIGN AND SPECS.

DESIGNER: CLEANFLO WATER TECHNLOGIES, 1-877-306-2146
DATE COMPLETED: TBD , 2021

RAIN SYSTEM SPECIFICATIONS

ROOF COLLECTION AREA: ~ 2000 SQFT
ROOF MATERIAL: METAL (NSF 61 OR NSF P151 COATING)
GUTTER MATERIAL: PAINTED STEEL (NSF 61 OR NSF P151 INTERIOR COATING)
DOWNSPOUT MATERIAL: ALUMINUM, PVC SDR 35, PVC DRAIN PIPE (NSF 61 OR NSF P151 INTERIOR COATING)
CONVEYANCE PIPING MATERIAL: ALUMINUM, PVC SDR 35, PVC DRAIN PIPE (NSF 61 ORNSF P151 INTERIOR COATING)

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: 131"
WIDTH: 60"
HIEGHT: 53 "
DIAMETER: NA

PRE-FILTER SPECIFICATIONS

TYPE OF PREFILTER: WISY VORTEX 150
NUMNER OF PRE-FILTERS: 1
PRE-FILTRATION MESH SIZE: 320 MICRONS
MAXIMUIM INLET FLOW RATE: 12 LITERS PER SECOND

RAINPUMP SPECIFICATIONS

BRAND: CLEANFLO VFD CONSTANT PRESSURE SYSTEM
MODEL: DABS ESYBOX MINI3
DESIGN FLOW RATE: 8 USGPM
MAXIMUN PSI @ 8 GPM: **70 PSI**

POWER SPECIFICATIONS

HORSE POWER: 1.1 HP
VOLTAGE: 115 VAC
AMPS: ~ 7.5 A
WATTS: 850 W

WATER TREATMENT SPECIFICATIONS

TYPE: CLEANFLO
BRAND: VIDA REUSE
MODEL: RESR4
AGE OF EQUIPMENT: NEW

7 MIN PEAK WATER DEMAND

FIXTURES	QUANTITY	FLOW RATE (LPM)	RUN TIME	7 MIN PEAK
SHOWER OR BATH	2	8.3	7 MIN	**116.6 L**
LAVATORY	2	5.3	0.5 MIN	**5.3L**
1 FLUSH PER TOILET	3	2.7	6.0L/FLUSH	**18L**
KITCHEN SINK	0	1.6	O.5 MIN	**0**
WASHING MACHINE	0	19	100L/CYCLE	**0**
DISHWASHER	0	7.6	30L/CYCLE	**0**

TOTAL 7 MIN PEAK 140L

LPM 20
US GPM 5.3

BASED ON THIS PEAK DEMAND CLEANFLO SPECIFIES A MAX FL0W RATE OF 8 US GPM.

RAIN TOTAL DYNAMIC HEAD

DESIGN FLOW RATE: **8 GPM**

SUPPLY PIPE 1.25" @ 70 FT (1.585 PSI LOSS/100FT) (NPSH MUST BE MET FOR BOOSTER PUMP)	1.1 PSI /2.54 FT HEAD
TREATMENT SKID PSI LOSS VARIES AS WATER FILTERS BECOME CLOGGED	10 PSI / 35 FT HEAD
DISTRIBUTION PIPE 8GPM - 0.75" @ 40FT (13.9 PSI LOSS/100FT) 3GPM - 0.5" @ 40FT (12.5 PSI LOSS/100FT) TOTAL 5.5 + 5.0 = 10.5	10.5 PSI / 24 FT HEAD
MINOR LOSSES: VALVES, FITTINGS ~ 20FT (13.9 PSI LOSS/100FT)	2.78 PSI / 6.4 FT HEAD
ELEAVTION HEAD 15FT (1.0 PSI LOSS/2.31FT)	6.49 PSI / 15 FT HEAD
STATIC PSI 30 PSI	30 PSI / 69.3 FT HEAD
TOTAL	**60. 9 PSI/141 FT HEAD**

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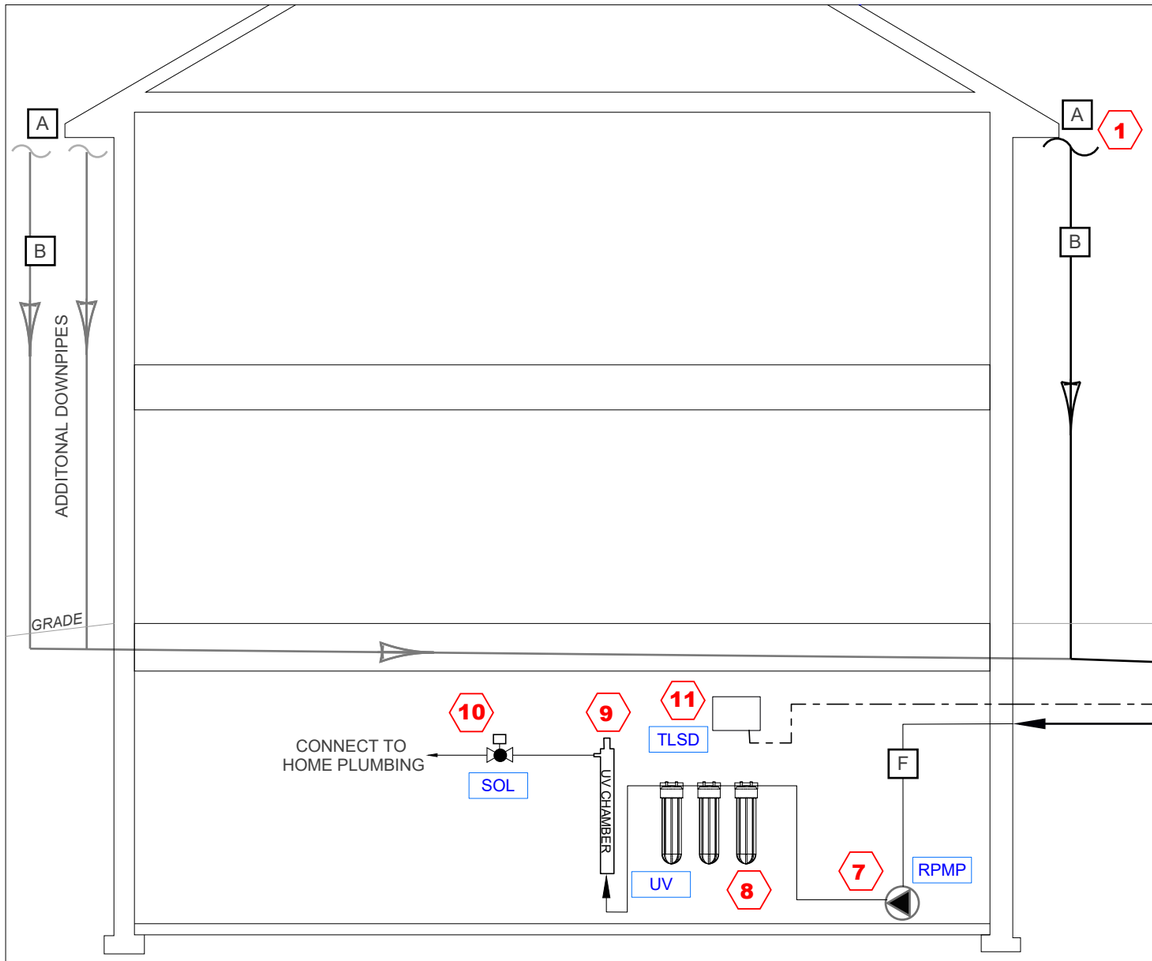


TAG	EQUIPMENT SCHEDULE
RSM	RAINSEEKER MAXIMUS 1000 USG SYSTEM - UNDERGROUND
RWT	- RAINWATER TANK
PRF	- RAINWATER PREFILTER
ACL	- SMOOTHING INLET
FLI	- FLOATING INTAKE
OVF	- SKIMMING OVERFLOW BACKWATER VALVE
TLS	- TANK LEVEL SENSOR
TLSD	- TANK LEVEL SENSOR DISPLAY
RPMP	RAINWATER PUMP
UV	TRIPLE FILTRATION AND UV SYSTEM
SOL	UV SOLENOID SHUT-OFF

PIPE AND WIRE SCHEDULE		
A	GUTTER	5" Wide @ 1% SLOPE
B	DOWNPIPE	3" X 2"
C	UNDERGROUND	4" DIAMETER @ 1.5% SLOPE
D	UNDERGROUND	6" DIAMETER @ 0.75% SLOPE (OPTIONALLY 4" DIA. @ 4% SLOPE)
E	SUPPLY PIPE UNDERGROUND	1.25" DIAMETER (PVC, POLY OR COPPER)
F	SUPPLY PIPE INTERIOR	1.25" DIAMETER (PVC, PEX, POLY OR COPPER)
G	SENSOR WIRE	4 C - SHEILDED 16 AWG (4 CONDUCTOR)

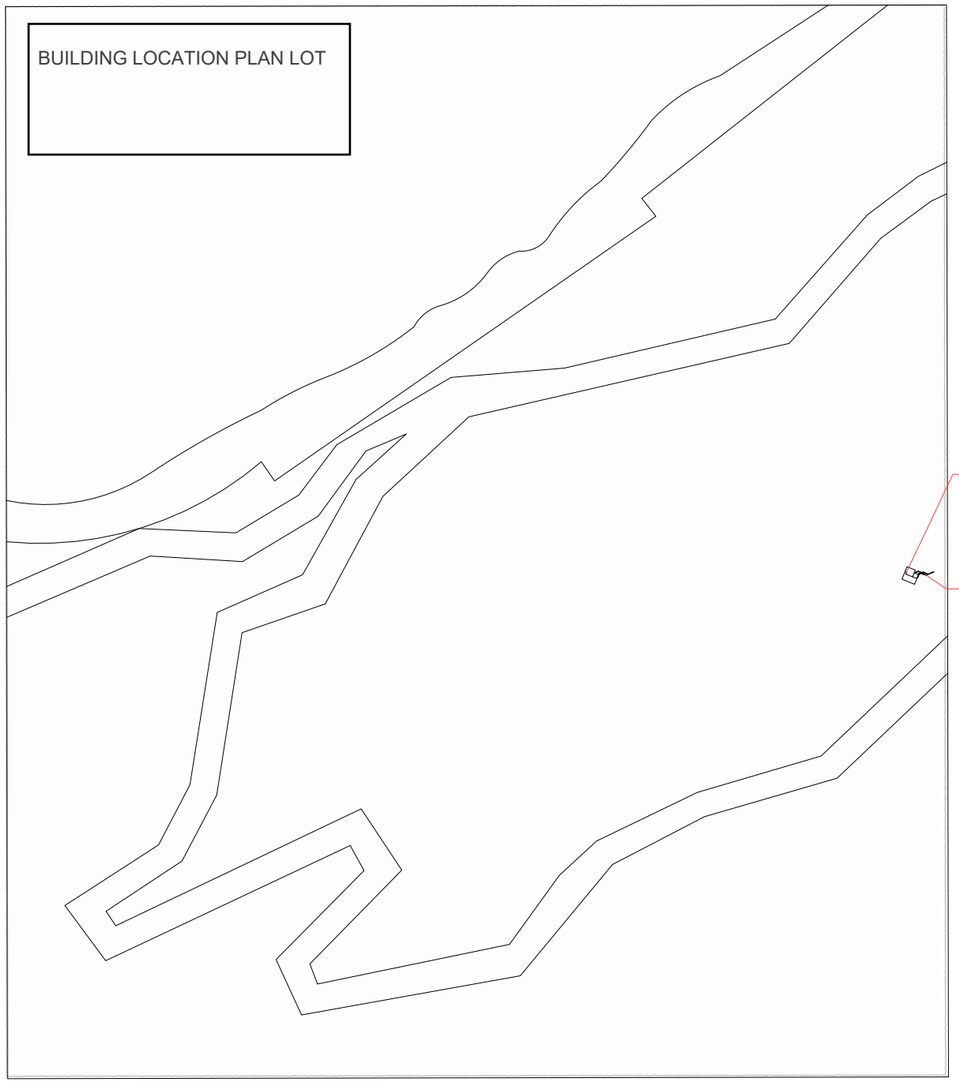
ATTENTION: RAINWATER TANK & PREFILTER MUST OVERFLOW TO A SUITABLE LOCATION SUCH AS:

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

CLEANFLO WATER TECHNOLOGIES

SEQUENCE OF OPERATION

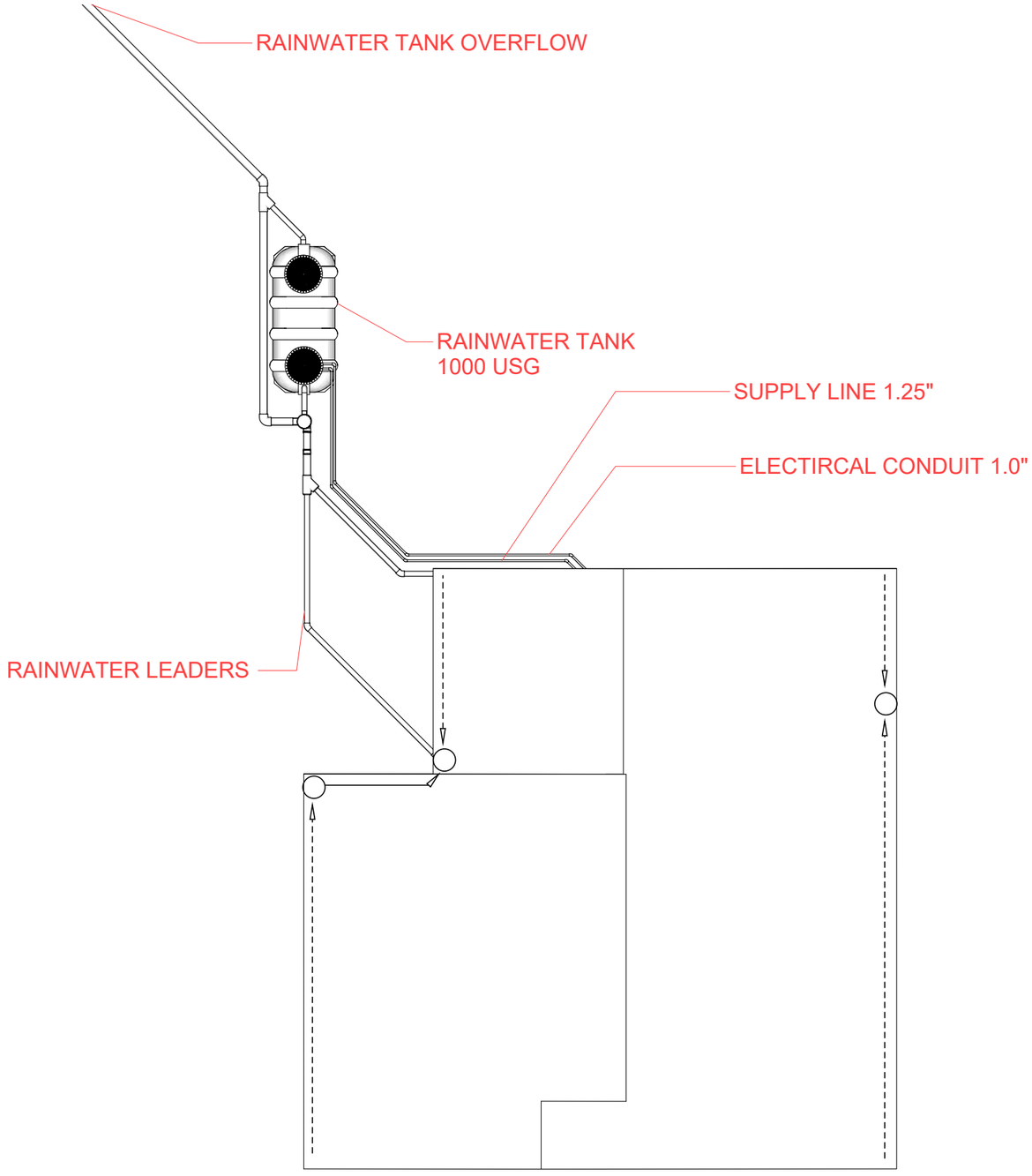
1	RAINWATER IS CAPTURED FROM THE ROOF. USING GUTTERS, ROOF DRAINS, AND PIPING RAINWATER IS CONVEYED TO THE PREFILTER. IF USING RAINWATER FOR POTABLE USE - REFER TO POTABLE ROOF AND GUTTER SPECIFICATION SHEETS.
2	RAINWATER ENTERS PREFILTER SELF CLEANING 3 IN1. PROVEN BASKETLESS TECHNOLOGY PROVIDES: 1) 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 REUSING RAIN IT FIRST PASSESS 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.
6	WHEN THE RAINWATER TANK IS FULL OVERFLOWED RAINWATER IS DIRECTED THROUGH THE SKIMMING OVERFLOW, BACKWATER VALVE AND VERMIN GUARD THEN EXITS THE SYSTEM.
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 SUCTIONED INTO THE BUILDING BY THE PUMP SYSTEM. ENSURE A CHECK VALVE IS INSTALLED ON SUCTION PIPE INSIDE RAINWATER TANK.
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 AND STAGE 3 IS 1 MICRON ABSOLUTE CYST FILTER.
9	RAINWATER IS SANITIZED BY A NSF 55 CLASS "A" UV SYSTEM. THE UV SYSTEM IS DESIGNED TO REPLACE CHLORINE AS A PRIMARY DISINFECTION STAGE PROVIDING UPTO 68 mJ/cm2 UV DOSE. IF THE UV DOSE FALLS BELOW 40 mJ/cm2 THEN THE UV WILL GO INTO ALARM AS THE WATER IS NOT SAFE TO USE. UV ALARM INDICATED THE FILTERS MAY HAVE NOT BEEN CHANGED AT THE SCHEDULED MAINTENANCE.
10	IF THE UV SYSTEM ENTERS AN ALARM FOR UV DOSE BELOW 40 mJ/cm2 THEN THE SOLENOID LOCK VALVE WILL TRIGGER CLOSED, STOPPING ALL WATER SUPPLY.
11	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.



CLEANFLO WATER TECHNOLOGIES

SITE PLAN

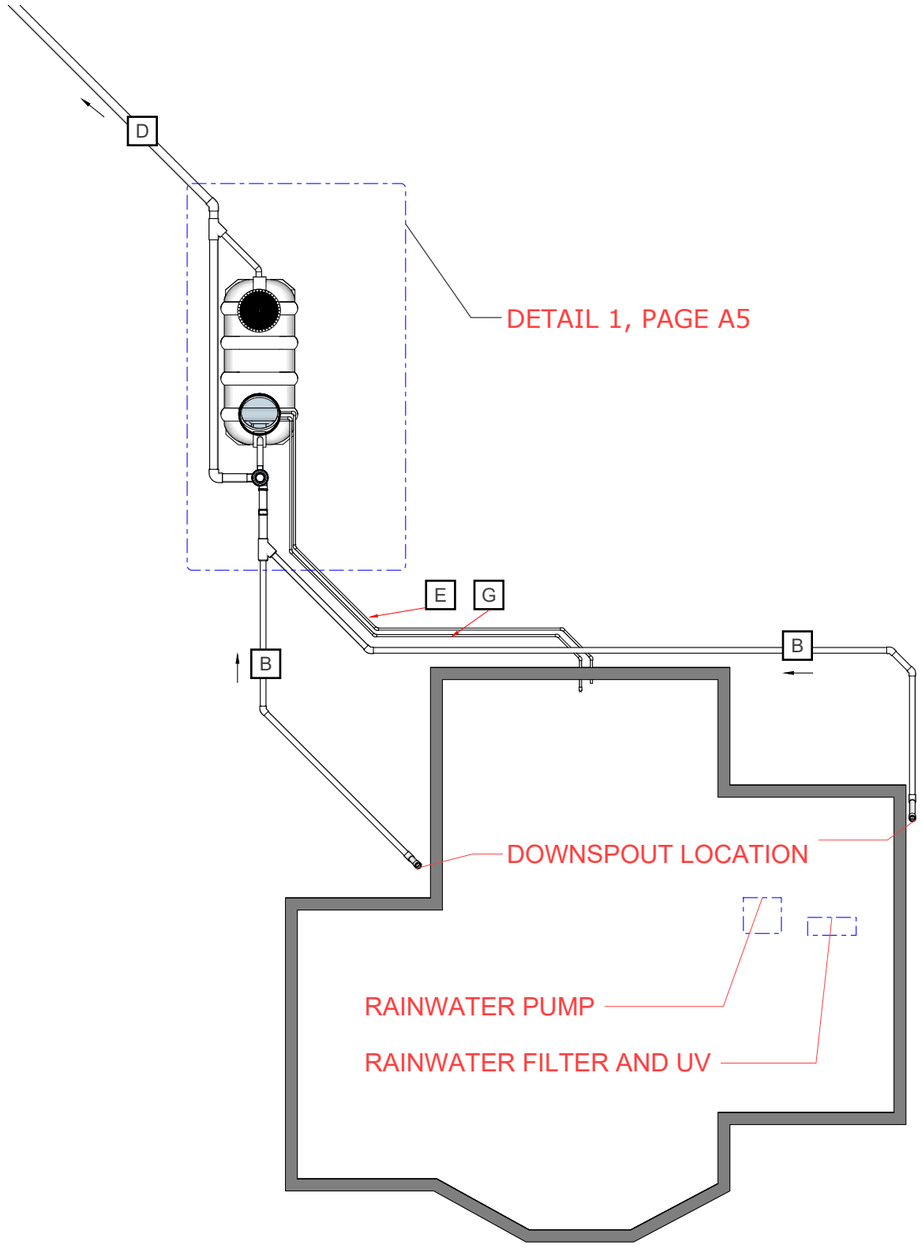
(SCALE 1:6000)



ROOF PLAN

(SCALE 1:120)

CLEANFLO WATER TECHNOLOGIES

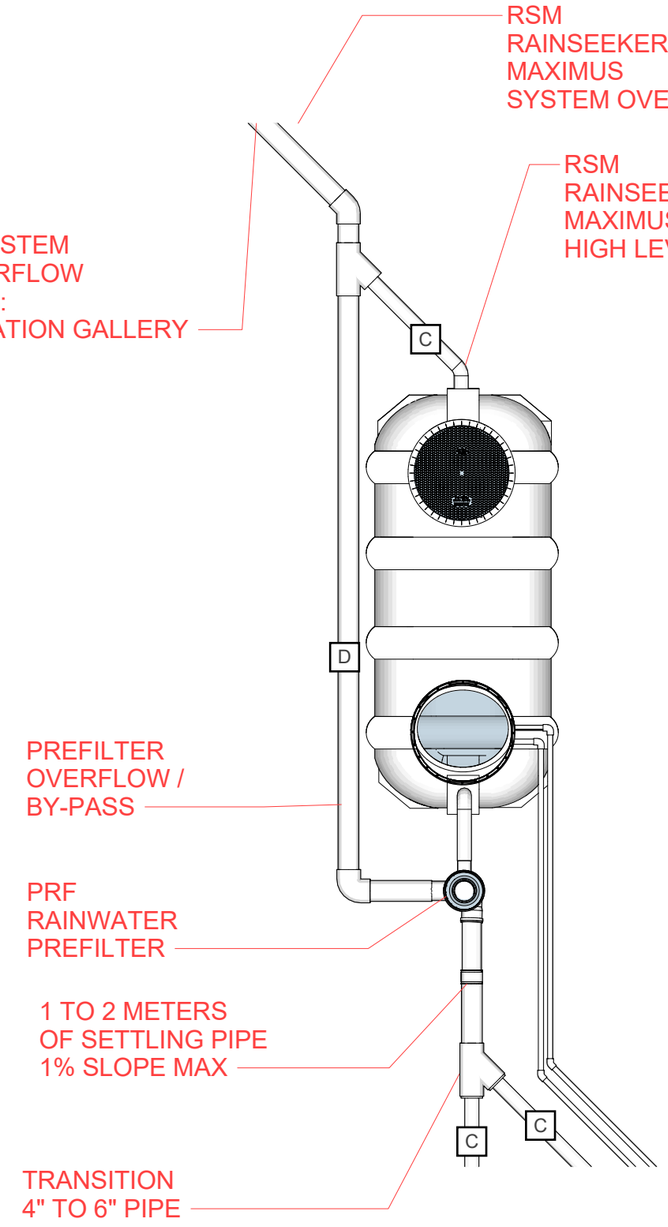


FOUNDATION PLAN
(SCALE 1:120)

PIPE AND WIRE SCHEDULE		
A	GUTTER	5" Wide @ 1% SLOPE
B	DOWNPIPE	3" X 2"
C	UNDERGROUND	4" DIAMETER @ 1.5% SLOPE
D	UNDERGROUND	6" DIAMETER @ 0.75% SLOPE (OPTIONALLY 4" DIA. @ 4% SLOPE)
E	SUPPLY PIPE UNDERGROUND	1.25" DIAMETER (PVC, POLY OR COPPER)
F	SUPPLY PIPE INTERIOR	1.25" DIAMETER (PVC, PEX, POLY OR COPPER)
G	SENSOR WIRE	4 C - SHEILDED 16 AWG (4 CONDUCTOR)

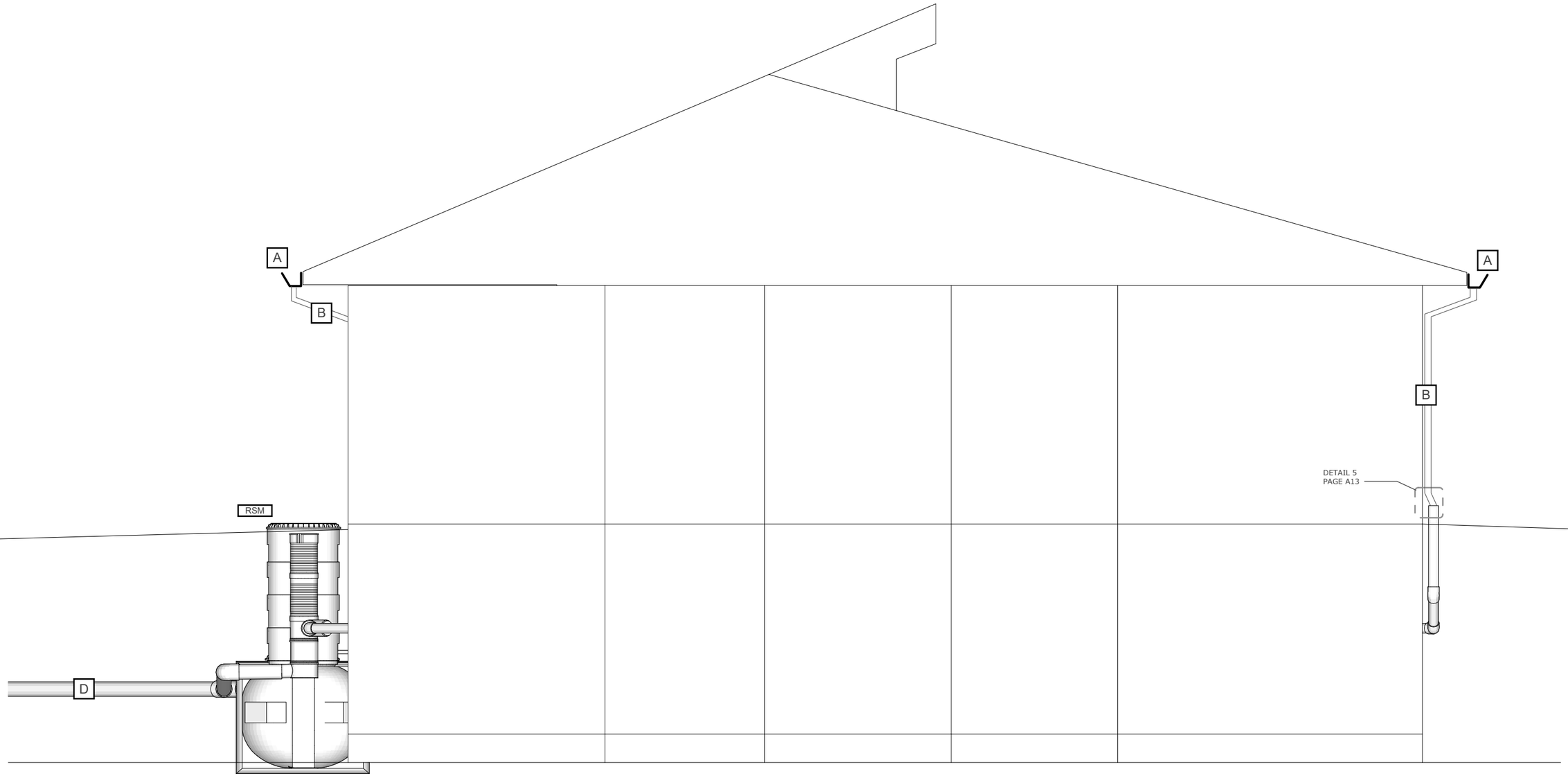
NOTE:

OVERFLOW RSM SYSTEM
TO ADEQUATE OVERFLOW
LOCATION SUCH AS:
GRADE OR INFILTRATION GALLERY



DETAIL 1
(SCALE 1:48)

CLEANFLO WATER TECHNOLOGIES



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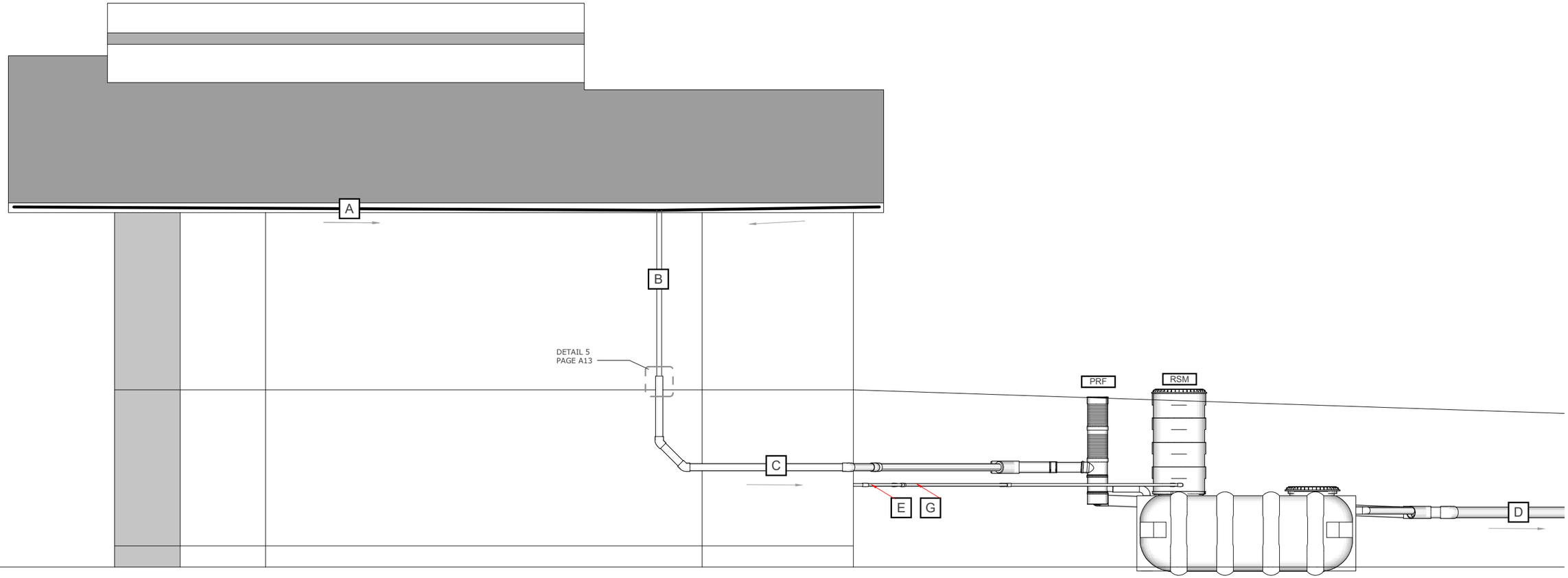
FRONT VIEW
(SCALE 1:96)

CLEANFLO WATER TECHNOLOGIES



CLEANFLO WATER TECHNOLOGIES

RIGHT VIEW
(SCALE 1:64)

PIPE AND WIRE SCHEDULE		
A	GUTTER	5" Wide @ 1% SLOPE
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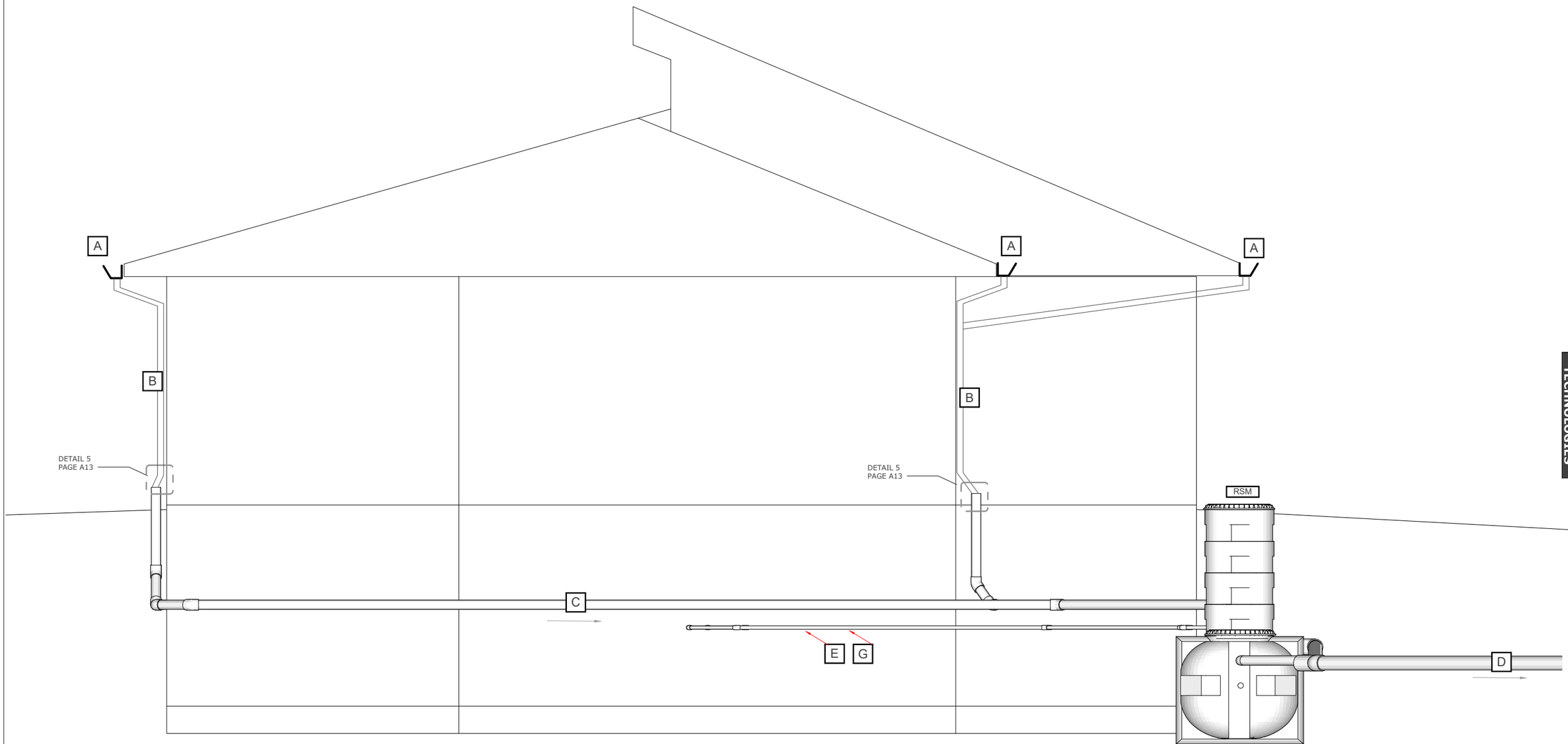

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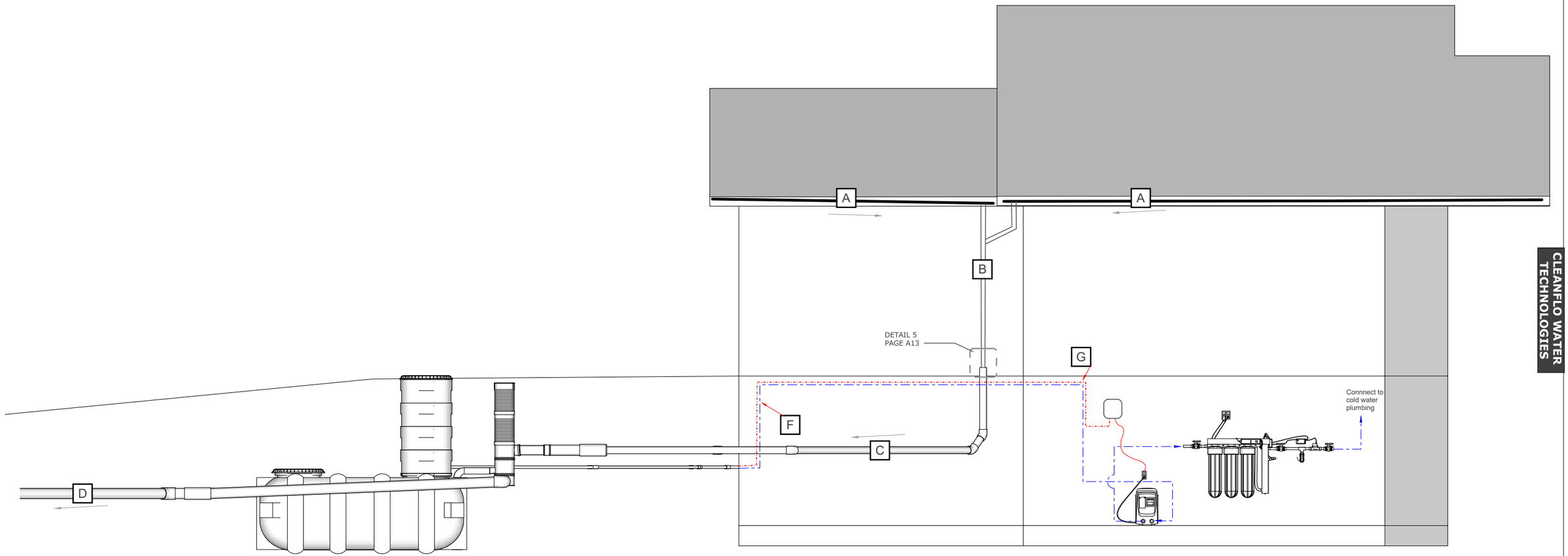
BACK VIEW
(SCALE 1:48)

CLEANFLO WATER TECHNOLOGIES



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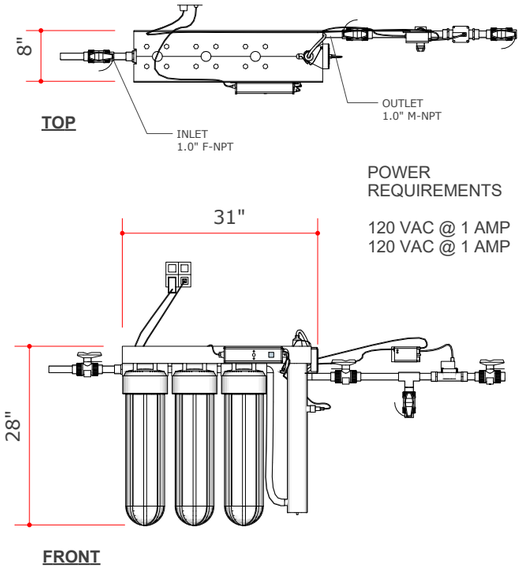
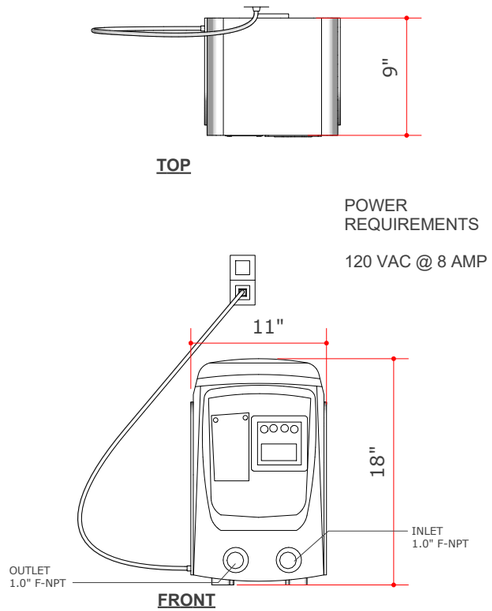
LEFT VIEW
(SCALE 1:64)



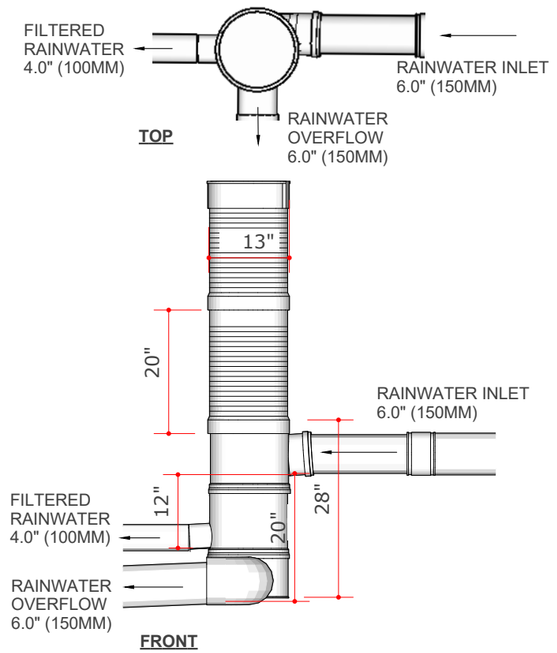
TRIPLE STAGE FILTRATION AND UV WITH SOLENOID LOCKOUT

1 SCALE: 1:24



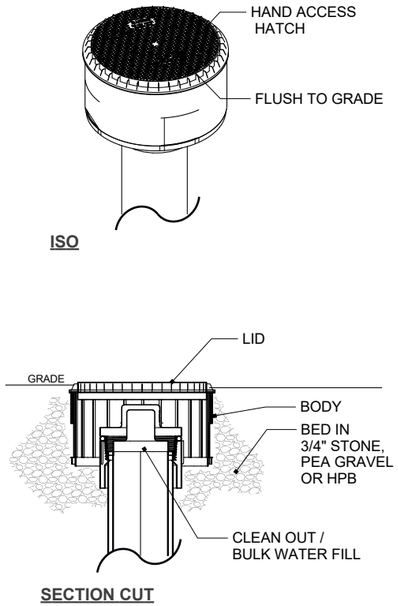
2 ESYBOX MINI 3 - PUMPING SYSTEM

SCALE: 1:12



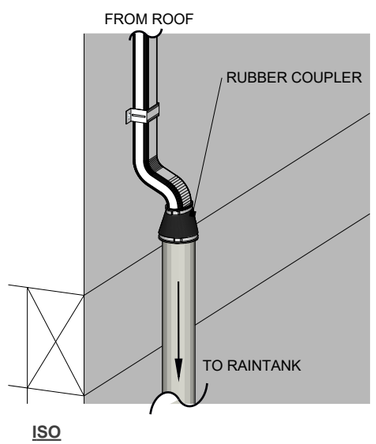
3 RAINWATER PREFILTER - WISY VORTEX 150

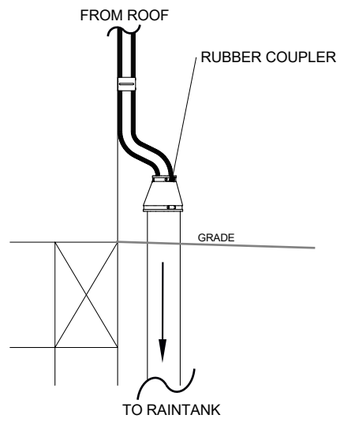
SCALE: 1:24



4 TYIPICAL CLEANOUT ACCESS

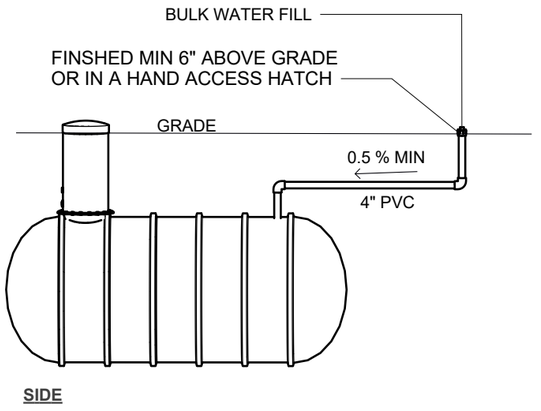
SCALE: 1:10





5 DOWNPIPE TRANSITION

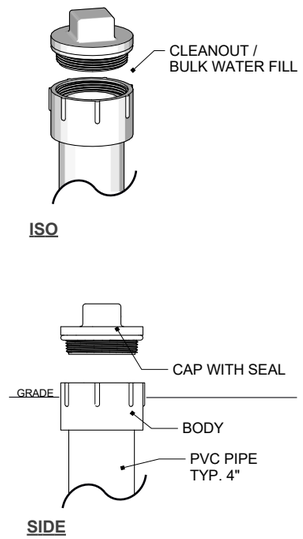
SCALE: 1:20



REQUIRES AN ADDITIONAL PIPE SEAL (PAGE 6 - 3) AND BULK WATER FILL CAP (PAGE 7-6)TO CONNECT BULK FILL PIPE TO THE RAINWATER TANK.

6 TYIPICAL BULK WATER FILL DETAIL

SCALE: NOT TO SCALE



7 TYIPICAL CLEANOUT / BULKWATER FILL

SCALE: 1:10

CLEANFLO WATER TECHNOLOGIES