

GENERAL NOTES:

CONTOUR INTERVAL IS 1' REFERENCED TO A LOCAL ARBITRARY DATUM.

CONTRACTOR IS TO NOTIFY ENGINEER BEFORE PROCEEDING IF SUBSURFACE CONDITIONS DIFFER FROM THOSE INDICATED ON THIS PLAN.

ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY DIG SAFE AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK.

THE PROPOSED WORK MAY FALL UNDER THE JURISDICTION OF THE WETLANDS PROTECTION ACT. CONTRACTOR AND/OR OWNER IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.

ALL PROPOSED WORK SHALL BE IN COMPLIANCE WITH MASSACHUSETTS PLUMBING, BUILDING, AND FIRE CODE REQUIREMENTS. LOW VOLUME PLUMBING FIXTURES ARE TO BE USED. NO CARGAGE DISPOSALS ARE ALLOWED. NO BACKWASH OF WATER PURIFICATION OR FILTRATION DEVICES SHALL DISCHARGE INTO THE PROPOSED SYSTEM.

ALL DISTURBED AREAS ARE TO BE SEEDED AND MULCHED.

CONTRACTOR SHALL TURN BENCHMARK TO A PERMANENT SUITABLE LOCATION AWAY FROM POSSIBLE DISTURBANCE UPON COMMENCEMENT OF CONSTRUCTION.

PROPERTY LINES AS SHOWN WERE ESTABLISHED FROM "SURVEY OF LAND IN STOCKBRIDGE, MASSACHUSETTS, PREPARED FOR MICHAEL & REBECCA R. BELLORA" PREPARED BY PATRICK M. MCCORMAN OF TACONIC LAND SURVEYORS DATED ON SEPTEMBER 27, 2021 TO BE REVISED BASED RECENT PROPERTY LINE AGREEMENT WITH NORTHEAST ADJUTER. THE AGREEMENT ADJUSTS PROPERTY SQUARE FOOTAGE TO 10,703 S.F. FROM PREVIOUS 10,648 S.F. AND FROM MONUMENTATION FOUND IN THE FIELD AND ARE REPRESENTED AS APPROXIMATE ONLY.

TOPOGRAPHIC SURVEY PERFORMED BY WHITE ENGINEERING, INC. ON DECEMBER 10, 2021

WETLAND DELINEATION PERFORMED BY WHITE ENGINEERING, INC. ON SEPTEMBER 27, 2021

APPROVAL OF THIS PLAN AND APPLICATION BY A BOARD OF HEALTH DOES NOT IMPLY OR CONSTITUTE APPROVAL BY ANY OTHER BOARD OF AGENCY.

ALTERNATIVE TECHNOLOGY NOTES:

1.) THIS DESIGN EMPLOYS A 50% REDUCTION IN SIZE OF S.A.S. AS ENTITLED BY RIGHT UNDER THE JET BAT REMEDIAL APPROVAL BY THE DEPT. OF ENVIRONMENTAL PROTECTION.

2.) JET BAT UNIT IS TO BE INSTALLED PER MANUFACTURES AND DISTRIBUTORS INSTRUCTIONS.

3.) OWNER IS TO PROVIDE COPY OF JET-BAT OPERATION AND MAINTENANCE AGREEMENT TO THE TRI TOWN HEALTH DEPARTMENT UPON EXECUTION OF CONTRACT.

PER 310 CMR 15.404(3)(4): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 50% REDUCTION IN REQUIRED SUBSURFACE DISPOSAL AREA DESIGN REQUIREMENTS. PER JET-BAT DESIGN MANUAL FOR NITROGEN REDUCING TANKS

CONSTRUCTION NOTES:

1. EROSION CONTROL SILTFENCE TO BE INSTALLED AND MAINTAINED BY CONTRACTOR PRIOR TO THE START OF WORK.

2. EROSION CONTROL SILTFENCE TO REMAIN IN PLACE UNTIL SITE HAS STABILIZED AND VEGETATION HAS BECOME ESTABLISHED.

3. ALL DISTURBED AREAS ARE TO BE REGRADED, SEEDED AND MULCHED AT THE COMPLETION OF WORK IN THAT AREA.

4. ALL MATERIALS AND EQUIPMENT ARE TO BE STORED WITHIN THE LIMITS OF THE SILTFENCE.

5. SILTFENCE TO SERVE AS THE LIMIT OF WORK AREA.

6. NO EQUIPMENT IS TO BE FUELED OR FUEL STORED WITHIN 100-FT. OF RESOURCE AREA WITHOUT PRIOR CONSENT FROM CONSERVATION COMMISSION.

7. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE MASSACHUSETTS WETLANDS PROTECTION ACT AND ALL APPLICABLE STATE AND LOCAL BY-LAWS.

8. ALL MATERIALS TO BE STOCKPILED ON SITE OVERNIGHT SHALL BE TARPED OR COVERED BY OTHER APPROVED METHOD.

LOCAL UPGRADE APPROVALS:

PER 310 CMR 15.405(1)(N): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 50' REDUCTION IN REQUIRED 100' SETBACK FROM A S.A.S. TO A PRIVATE WATER SUPPLY WELL. ACTUAL DISTANCE PROVIDED IS 50'.

PER 310 CMR 15.405(1)(G): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 10' REDUCTION IN REQUIRED 20' SETBACK FROM A S.A.S. TO A CELLAR WALL. ACTUAL DISTANCE PROVIDED IS 10'.

PER 310 CMR 15.405(1)(F): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 17' REDUCTION IN REQUIRED 25' SETBACK FROM A SEPTIC TANK TO A BORDERING VEGETATED WETLAND. ACTUAL DISTANCE PROVIDED IS 8'.

PER 310 CMR 15.405(1)(I): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 21' REDUCTION IN REQUIRED 25' SETBACK FROM A S.A.S. TO A BORDERING VEGETATED WETLAND. ACTUAL DISTANCE PROVIDED IS 4'. (25' SETBACK PER JET-BAT)

PER 310 CMR 15.405(1)(S): (LOCAL UPGRADE APPROVAL) - APPLICANT REQUESTS 5' REDUCTION IN REQUIRED 10' SETBACK FROM A S.A.S. TO A PROPERTY LINE. ACTUAL DISTANCE PROVIDED IS 5'.

NOTE: APPLICANT TO GET WELL TEST PERIODICALLY FOR TWO YEARS FOLLOWING INSTALLATION OF PROPOSED WELL, AS PER CONVERSATION WITH TRI-TOWN HEALTH.

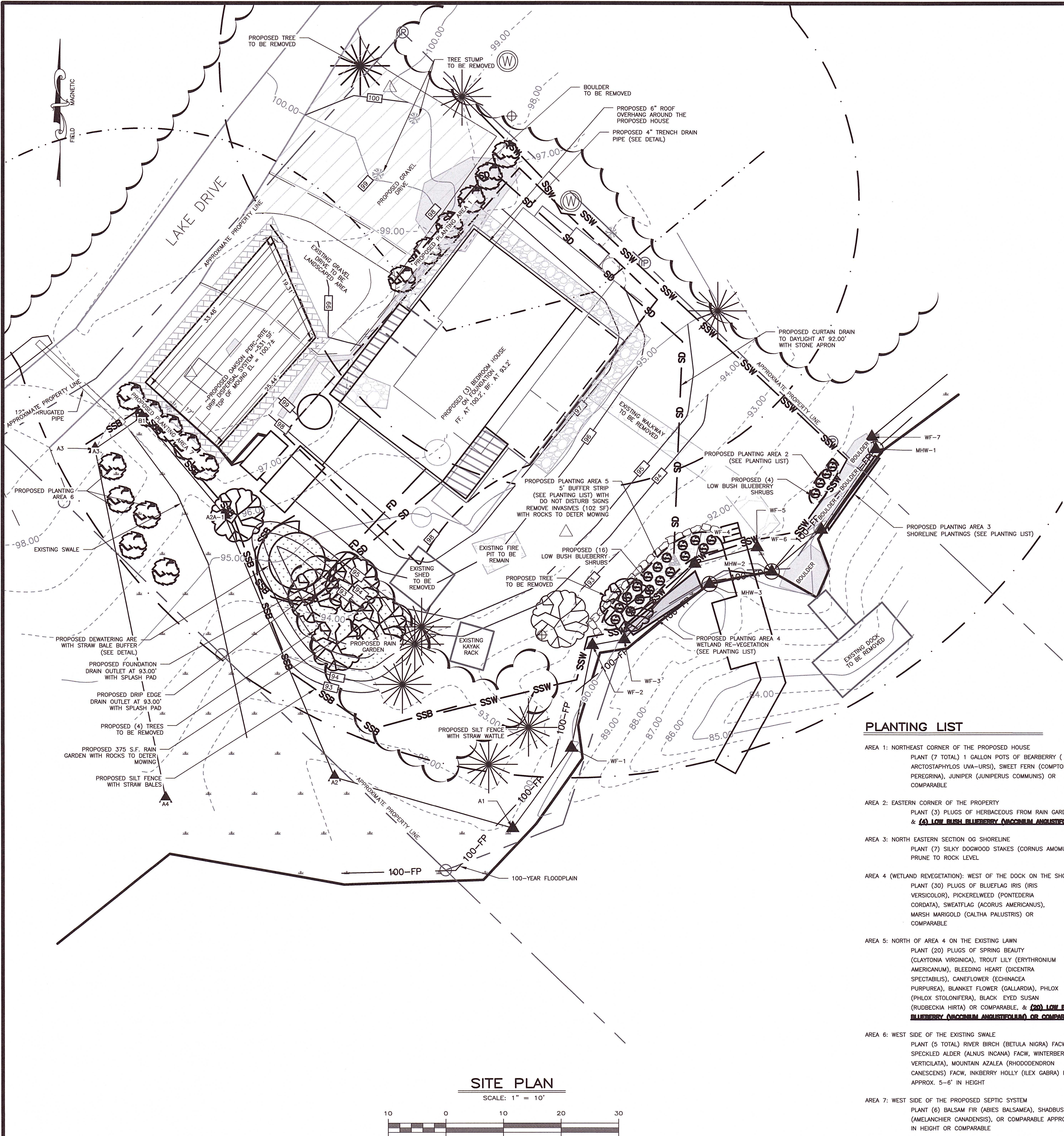
PROPOSED PLANTING PLAN
for
MICHAEL & REBECCA BELLORA

38 LAKE DRIVE TAX MAP #101 LOT #26 STOCKBRIDGE, MA

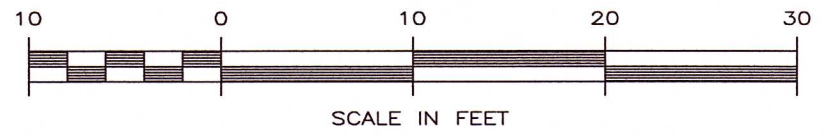
NO.	REVISION	DATE
4	FURTHER CLARIFIED THE NUMBER OF PROPOSED SHRUBS ALONG PLANTING AREA ON STOCKBRIDGE BOWL AND SHOWN ON SITE PLAN VIEW	8/23/2022
3	RESPONSE TO COMMENTS BY PEER REVIEW ON AUGUST 18, 2022	8/22/2022
2	ADDED NEW HOUSE FOOTPRINT, REMOVED PLANTING AREA, ADJUSTED CURTAIN DRAIN	8/3/2022
1	REMOVED 5' BUFFER STRIP PLANTINGS, ADDED 100 YEAR FLOODPLAIN	6/14/2022

DATE: MAY 10, 2022 DWN: AJB APPD: BMW DWS NO: 21-06-04D
CRN: BMW CRD: BMW SCALE: AS NOTED SHEET 1 OF 4

WHITE ENGINEERING INC.
CIVIL & ENVIRONMENTAL
55 SOUTH MERRIAM STREET, PITTSFIELD, MA 01201
PHONE: (413) 443-8011 WEB: WHITEENG.COM FAX: (413) 443-8012
LICENSED IN CONNECTICUT, MASSACHUSETTS, NEW YORK AND VERMONT



SITE PLAN



PLANTING LIST

- AREA 1: NORTHEAST CORNER OF THE PROPOSED HOUSE
PLANT (7 TOTAL) 1 GALLON POTS OF BEARBERRY (ARCTOSTAPHYLOS UVA-URS), SWEET FERN (COMPTONIA PERECRINA), JUNIPER (JUNIPERUS COMMUNIS) OR COMPARABLE
- AREA 2: EASTERN CORNER OF THE PROPERTY
PLANT (3) PLUGS OF HERBACEOUS FROM RAIN GARDEN LIST & (4) LOW BUSH BLUEBERRY (VACCINIUM ANGUSTIFOLIUM OR COMPARABLE)
- AREA 3: NORTH EASTERN SECTION OF SHORELINE
PLANT (7) SILKY DOGWOOD STAKES (CORNUS AMOMUM) PRUNE TO ROCK LEVEL
- AREA 4 (WETLAND REVEGETATION): WEST OF THE DOCK ON THE SHORELINE
PLANT (30) PLUGS OF BLUEFLAG IRIS (IRIS VERSICOLOR), PICKERWEED (PONTEDERIA CORDATA), SWEATFLAG (ACORUS AMERICANUS), MARSH MARIGOLD (CALTHA PALUSTRIS) OR COMPARABLE
- AREA 5: NORTH OF AREA 4 ON THE EXISTING LAWN
PLANT (20) PLUGS OF SPRING BEAUTY (CLAYTONIA VIRGINICA), TROUT LILY (ERYTHRONIUM AMERICANUM), BLEEDING HEART (DICENTRA SPECTABILIS), CANEFLOWER (ECHINACEA PURPUREA), BLANKET FLOWER (GALLARDIA), PHLOX (PHLOX STOLONIFERA), BLACK EYED SUSAN (RUDBECKIA HIRTA) OR COMPARABLE, & (20) LOW BUSH BLUEBERRY (VACCINIUM ANGUSTIFOLIUM OR COMPARABLE)
- AREA 6: WEST SIDE OF THE EXISTING SWALE
PLANT (5 TOTAL) RIVER BIRCH (BETULA NIGRA) FACW, SPECKLED ALDER (ALNUS INCANA) FACW, WINTERBERRY (ILEX VERTICILLATA), MOUNTAIN AZALEA (RHODODENDRON CANESCENS) FACW, INKBERY HOLLY (ILEX GABRA) FACW, APPROX. 5-6' IN HEIGHT
- AREA 7: WEST SIDE OF THE PROPOSED SEPTIC SYSTEM
PLANT (6) BALSAM FIR (ABIES BALSAAMEA), SHADBUSH (AMELANCHIER CANADENSIS), OR COMPARABLE APPROX. 5-6' IN HEIGHT OR COMPARABLE
- RAIN GARDEN: SOUTHWEST OF THE PROPOSED HOUSE
PLANT (5) WINTERBERRY (ILEX VERTICILLATA), (5) NINEBARK (PHYSOCARPUS OPULOFOLIUS), (5) DOGWOODS (CORNUS) 3-4' IN HEIGHT, PLANT (15) PLUGS OF LADY FERN (ATHYRIUM ANGUSTUM) FOXGLOVE BEARDTONGUE (PENSTEMON DIGITALIS), BLUEFLAG IRIS (IRIS VERSICOLOR), SPOTTED CRANESBILL (GERANIUM MACULATUM), (5) LOW BUSH BLUEBERRY (VACCINIUM ANGUSTIFOLIUM) OR COMPARABLE

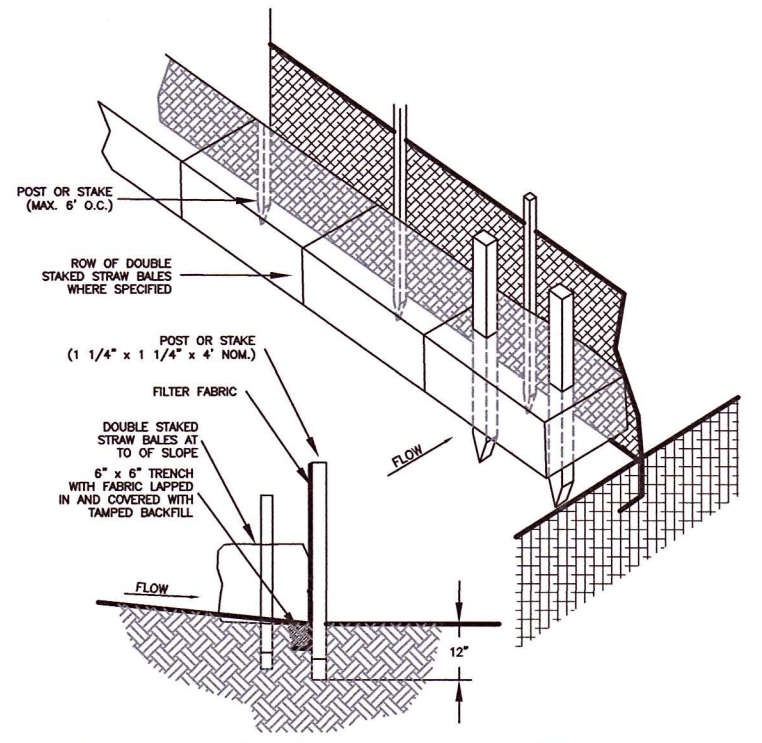
- LEGEND**
- 98--- EXISTING CONTOURS
 - 100 PROPOSED CONTOURS
 - APPROXIMATE PROPERTY LINE
 - EDGE OF TREELINE(CANOPY)
 - EXISTING GRAVEL ROAD
 - EDGE OF PAVED ROAD
 - PROPOSED STRUCTURES ON FOUNDATION
 - PROPOSED STRUCTURES ON PIERS
 - EXISTING STRUCTURES ON FOUNDATION
 - EXISTING STRUCTURE ON PIERS
 - WELL SETBACKS
 - BUFFER ZONE
 - ZONING SETBACKS
 - OHW--- OVER HEAD WIRES
 - LIMIT OF BORDERING VEGETATED WETLAND
 - SSB SILT FENCE W/STAKED STRAW BALES
 - SSW SILT FENCE W/STAKED STRAW WATTLES
 - S SANITARY SEWER
 - SD PROPOSED STORM WATER DRAIN PIPE
 - 40 MIL BREAKOUT LINER
 - MEAN HIGH WATER/TOP OF BANK
 - 100-FP 100 YEAR FLOODPLAIN
 - PLANTING AREA
 - W EXISTING WELL
 - IP IRON PIPE
 - ▲ WETLAND FLAG
 - MEAN HIGH WATER/TOP OF BANK FLAG
 - UTILITY POLE
 - DECIDUOUS TREE
 - CONIFEROUS TREE
 - PROPOSED TREE TO BE REMOVED
 - TREE STUMP
 - BORDERING VEGETATED WETLAND
 - PROPOSED RAIN GARDEN
 - PROPOSED BUFFER STRIP
 - PROPOSED DRIP EDGE



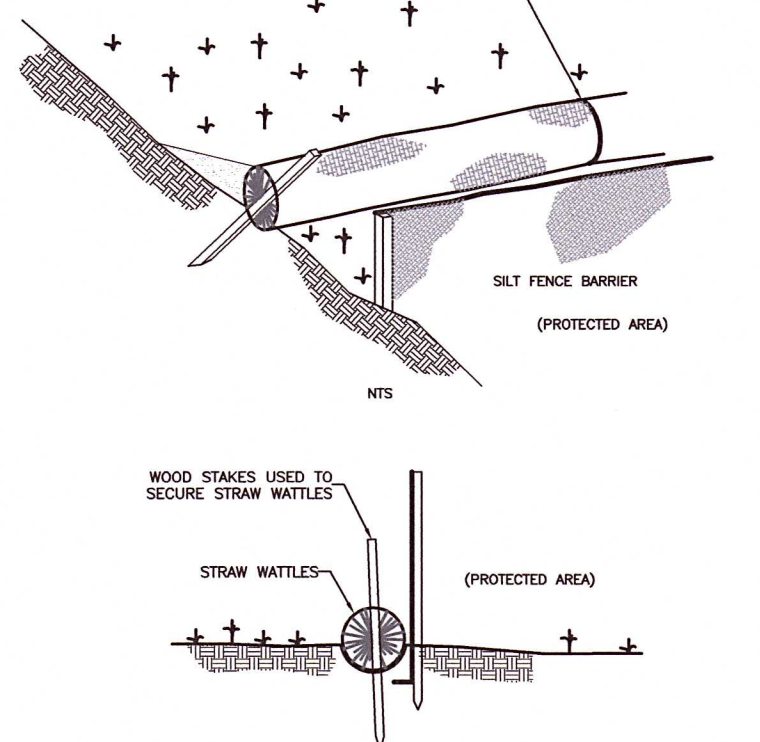
KEY MAP



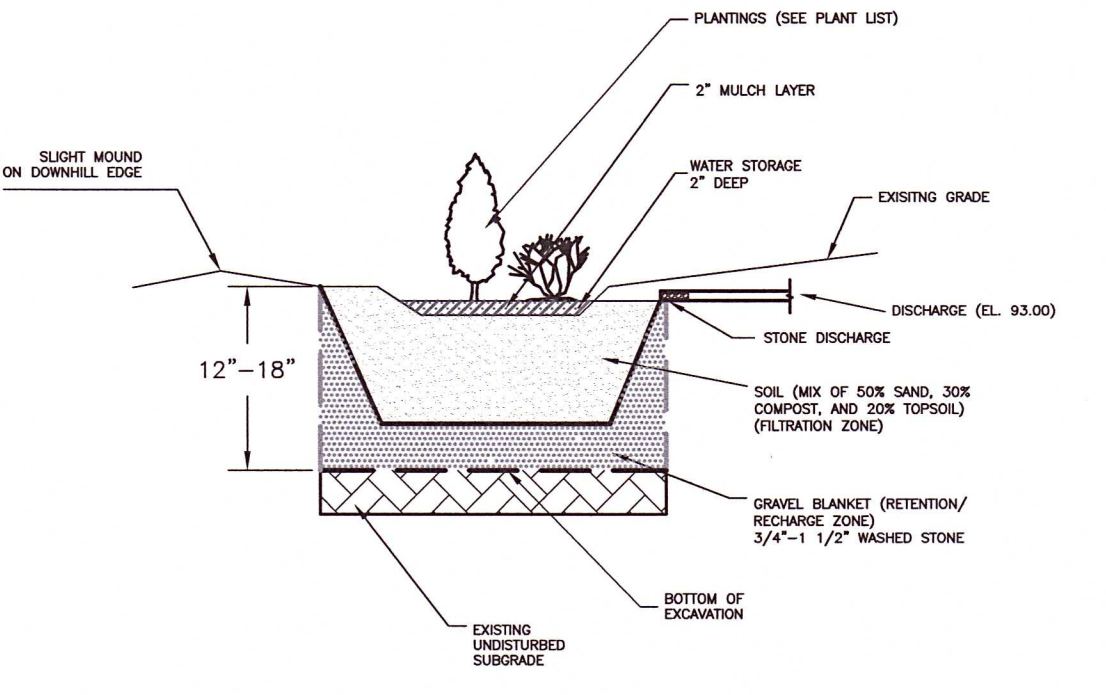
LOCUS MAP



SILT FENCE INSTALLATION DETAIL



STRAW WATTLE SILT FENCE BARRIER DETAIL



RAIN GARDEN DETAIL

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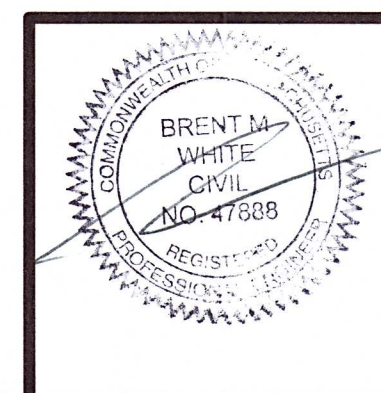
TOPOGRAPHIC SURVEY PERFORMED BY WHITE ENGINEERING, INC. ON DECEMBER 10, 2021

WETLAND DELINEATION PERFORMED BY WHITE ENGINEERING, INC. ON SEPTEMBER 27, 2021

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PROPOSED PLANTING PLAN
for
MICHAEL & REBECCA BELLORA

38 LAKE DRIVE		TAX MAP #101 LOT #26		STOCKBRIDGE, MA	
4	FURTHER CLARIFIED THE NUMBER OF PROPOSED SHRUBS ALONG PLANTING AREA ON STOCKBRIDGE BOWL AND SHOWN ON SITE PLAN VIEW	AJB	8/23/2022		
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2	ADDED NEW HOUSE FOOTPRINT, REMOVED PLANTING AREA, ADJUSTED CURTAIN DRAIN REMOVED 5' BUFFER STRIP PLANTINGS, ADDED 100 YEAR FLOODPLAIN	AJB	8/3/2022		
1	MOVED SOIL ABSORPTION SYSTEM OUTSIDE 50' WELL SETBACK, WELL TEST NOTE	AJB	6/14/2022		
NO	REVISE	REV	DATE		



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DATE: MAY 10, 2022	APPROVED: AJB	APPROVED: BMW	21-06-04D SHEET 2 OF 4
DRAWN: BMW	CHECKED: BMW	SCALE: AS NOTED	

GENERAL CONSTRUCTION NOTES:

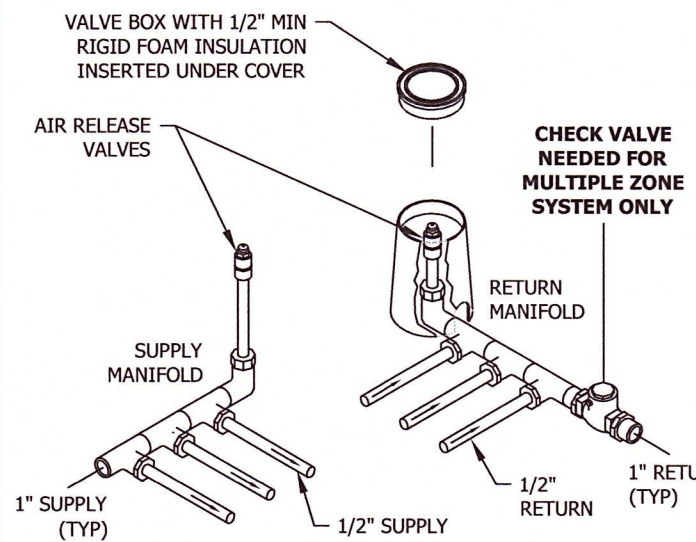
- The system shall not be installed in wet or frozen soils.
- Do not park, drive large equipment, or store materials on the dispersal area. No activity should occur on the dispersal area other than the minimum required to install the system.
- All installation and construction techniques shall conform to the state and local codes pertaining to on-site wastewater systems and the permit for the site.
- If site conditions are determined to require the installation of the system to deviate from the design plans, all work shall stop immediately and the designer and inspector shall be notified. Any ongoing work shall be the sole responsibility of the contractor.
- Drip tubing may be installed with a vibratory plow, a static plow, a narrow trencher (< 6" wide), by hand trenching, or by scarifying the surface and bedding the drip tubing in clean sand meeting the requirements for fill material in the state code. For sand fill systems, cover consisting of 2" of the same sand and then topsoil meeting the approved depth requirement shall be provided.
- All drip tubing is to be installed parallel to the contour.
- Air release valves shall be placed below the ground surface in an insulated valve box but at an elevation above the highest drip line in that particular zone.
- Vegetative cover must be replaced for installations where it is removed or buried during installation.
- All cutting of rigid pvc pipe, flexible pvc, and drip tubing of size 2" or smaller shall be accomplished with pipe cutters. No sawing is allowed.
- All rigid PVC pipe, flexible PVC pipe and drip tubing shall have the ends covered with duct tape after cutting to prevent construction debris from entering the pipe.
- Prior to gluing, all joints shall be inspected for and cleared of any debris. All joints shall be cleaned and primed with pvc primer prior to being glued.
- All PVC pipe and fittings shall be sch 40.
- Whenever possible, all force mains shall be tested for leaks prior to being back-filled by pressurizing the system and observing for leakage.
- The hydraulic unit shall be placed on top of the septic/treatment tank, pump chamber, or on a bed of 4" - 6" thick 3/4" gravel in a location within 30' of the pump.
- If standing water is a problem in the vicinity of the hydraulic unit, a screened drain to daylight is required.
- Electrician to provide separate circuits for the pump and controls/alarm, or as required by state and local codes.
- All conduit entering the control panel shall be sealed at both ends to prevent condensation or gases inside the panel.

COLD CLIMATE NOTES:

- All attempts should be made to place the hydraulic unit in a location with an open southern exposure for warming purposes.
- All pipes entering and leaving the hydraulic unit shall elbow vertically down 90 degrees to a depth below the frost line prior to extending away from the unit horizontally.
- The supply and return lines shall be installed below the frost line. When this is not possible, rigid foam insulation (min 1" thick) shall be placed over those pipes that are above the frost line.
- The vertical sections of pipe that travel through the frost zone and connect the supply and return lines to the manifolds shall be insulated sch 40 pvc pipe. Insulation shall consist of foam pipe wrap insulation and 1" rigid foam insulation strips made into a box. (see insulation detail)
- Foil wrap insulation shall be placed over the supply/return manifolds and loop connectors so that at least 1' of insulation extends each direction beyond the fittings. (see insulation detail)
- Air release valve enclosures shall be insulated with bagged Styrofoam peanuts, foil wrap insulation, and rigid foam insulation inside the lid. (see insulation detail)
- All loops connecting drip runs shall be slightly elevated (minimum 1" - 2") so that they drain into the drip tubing after the pump shuts off. It is the contractor's responsibility to ensure that these loops stay elevated during and after the loops are backfilled.
- Dense vegetative cover is to be established over the supply trench, return trench, manifolds, and drip tubing prior to the first exposure to freezing temperatures. If vegetation cannot be established then the entire drip dispersal field is to be covered with a thick layer (minimum 6") of mulch, straw/hay, or frost blanket until such turf cover is established.
- Vegetation height over the drip dispersal area should be a minimum of 4" - 6" throughout the winter months.

NOTES:

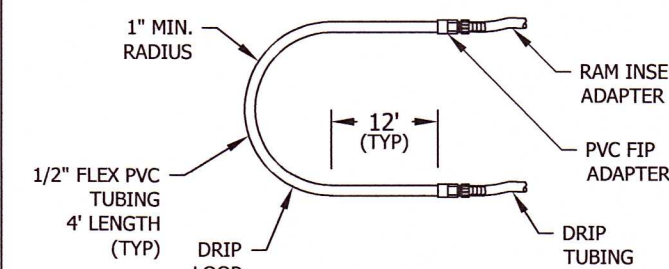
- ALL RIGID AND FLEXIBLE PVC ARE TO BE LOCATED ABOVE THE DRIP LINE TO ALLOW THE PIPES TO DRAIN.
- THE AIR RELEASE VALVES SHALL BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINE FOR EACH ZONE.
- EACH ZONE TO HAVE TWO AIR RELEASE VALVES.
- RETURN LINES TO BE CONNECTED TO A COMMON RETURN LINE.



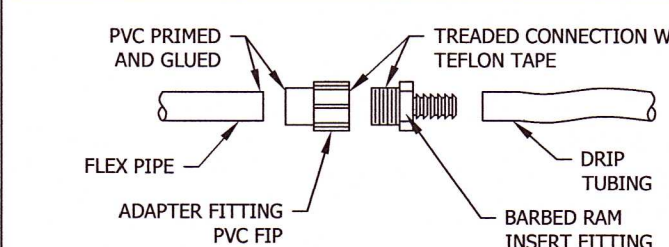
TYPICAL MANIFOLD CONNECTION
(NOT TO SCALE)

NOTE:

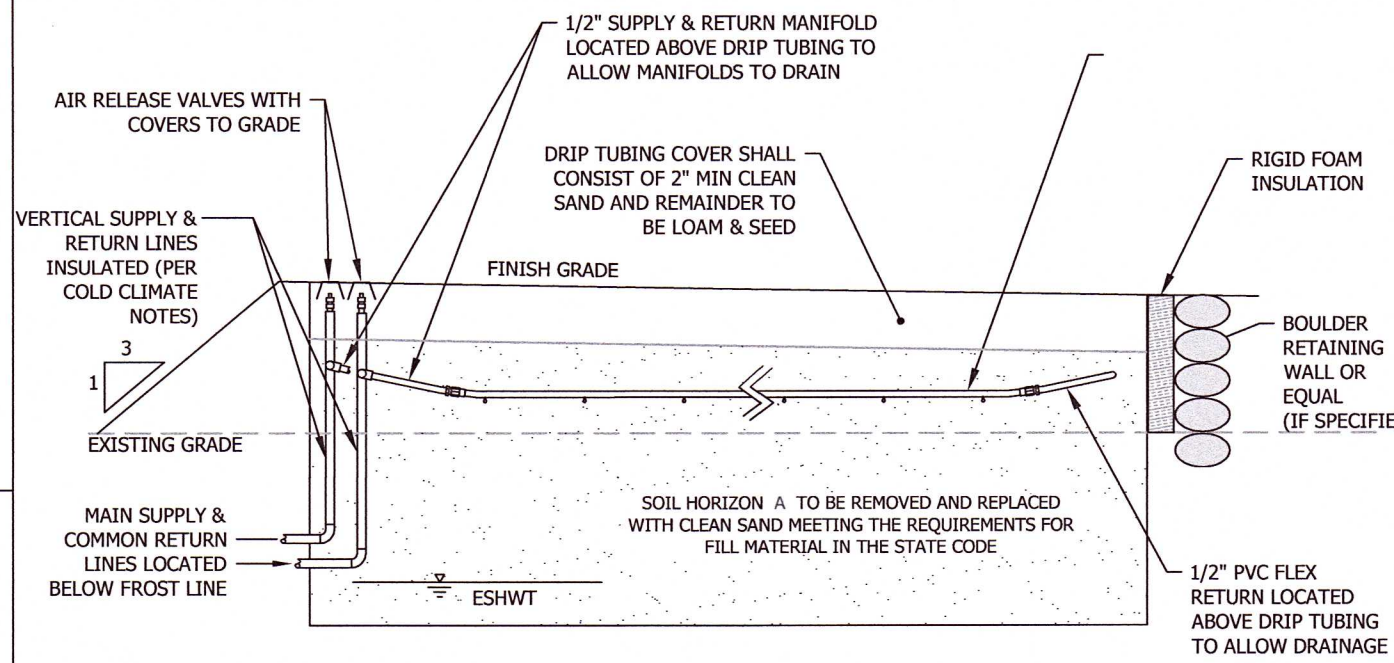
- ALL DRIP LOOPS ARE TO BE LOCATED 2" ABOVE THE DRIP LINE TO ALLOW FOR THE LOOPS TO DRAIN.



TYPICAL DRIP LOOP CONNECTION
(NOT TO SCALE)



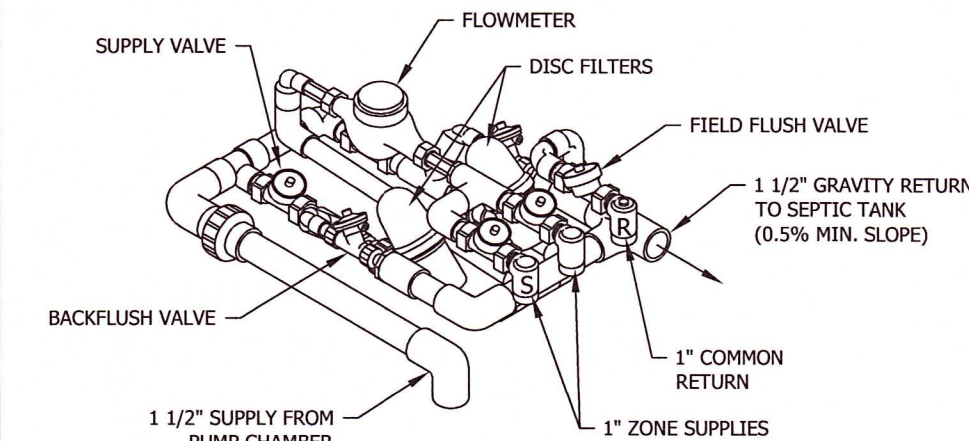
CONNECTING DRIP TUBING TO FLEXIBLE PVC PIPE



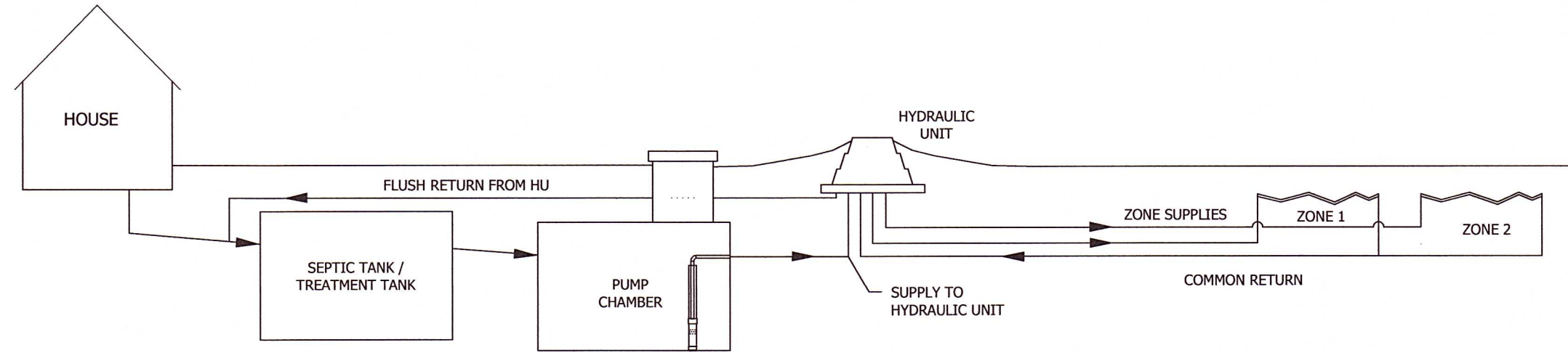
PERC-RITE FIELD (CUSTOM)
(NOT TO SCALE)

Note: All Perc-Rite components shall be obtained from Oakson, Inc, Gloucester, MA., 978-282-1322

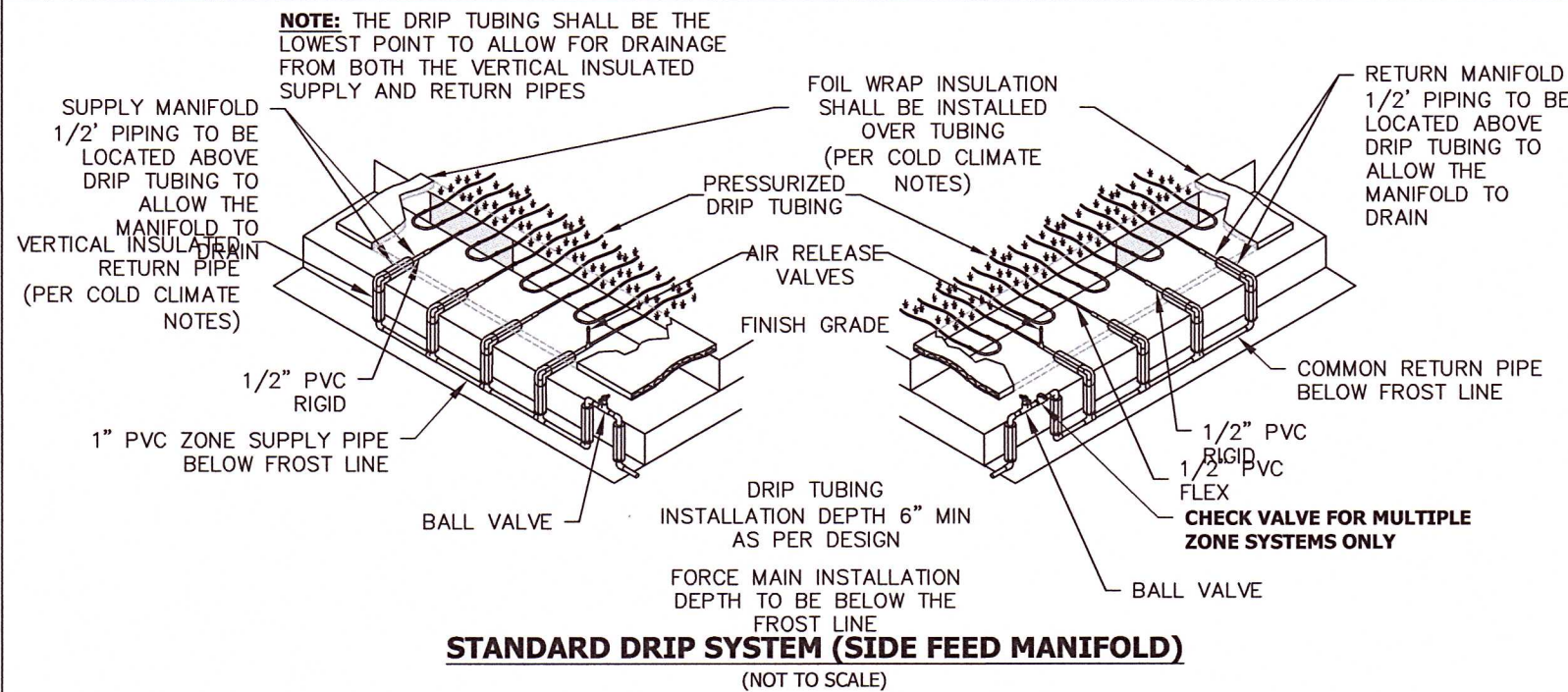
PERC-RITE DRIP TUBING CUSTOM



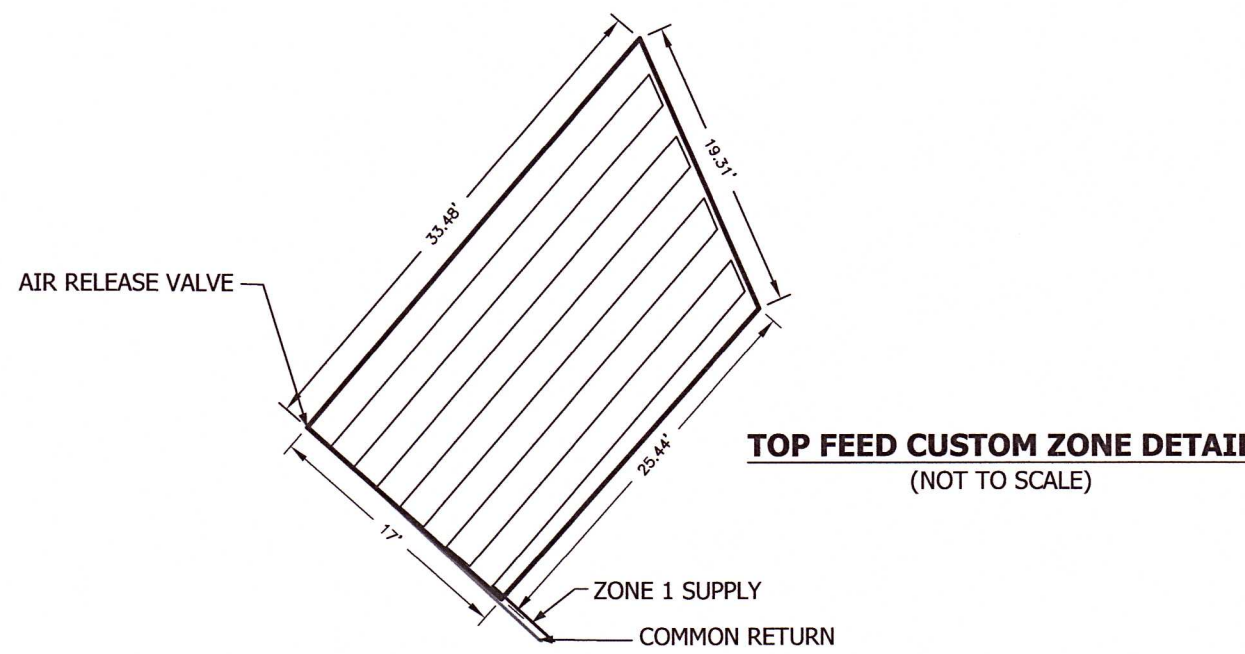
PERC-RITE HYDRAULIC UNIT (15 GPM)
(NOT TO SCALE)



TYPICAL SYSTEM HYDRAULIC PROFILE
(NOT TO SCALE)



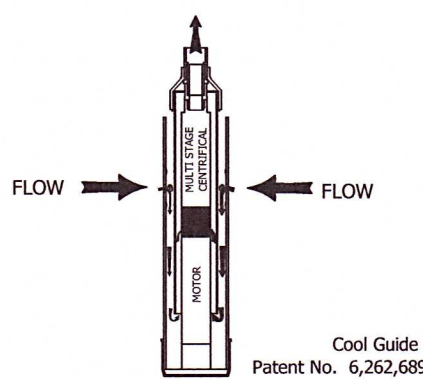
STANDARD DRIP SYSTEM (SIDE FEED MANIFOLD)
(NOT TO SCALE)



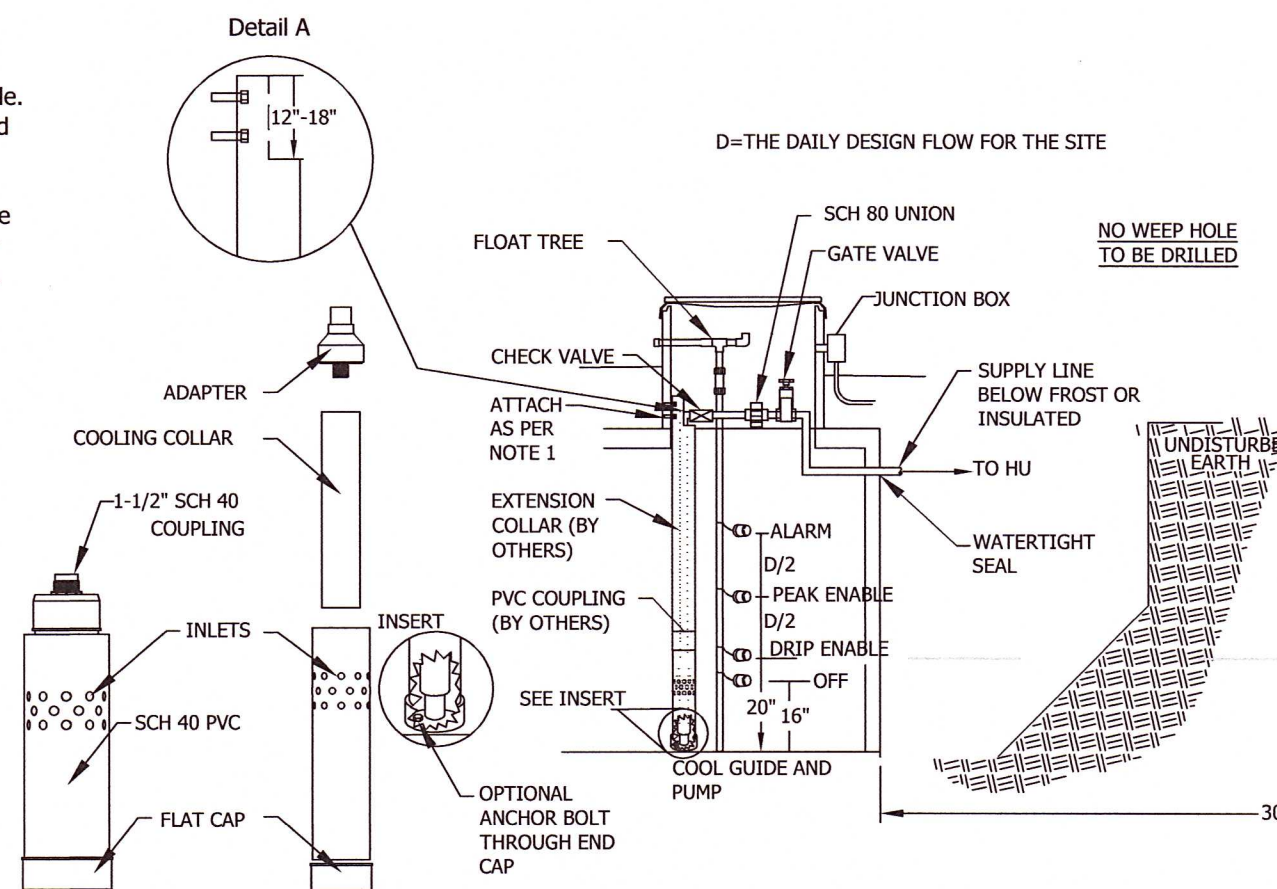
TOP FEED CUSTOM ZONE DETAIL
(NOT TO SCALE)

INSTALLATION INSTRUCTIONS:

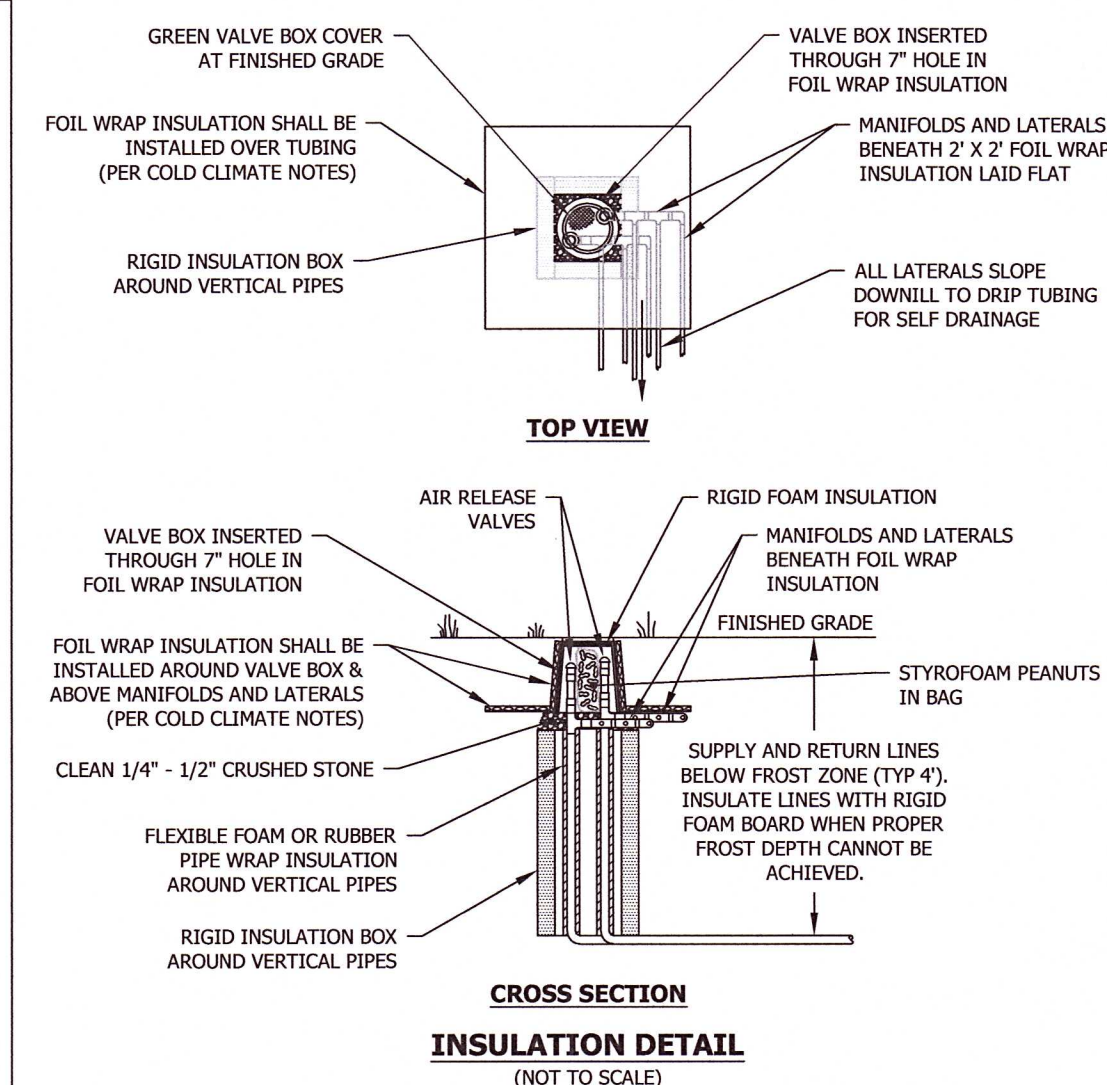
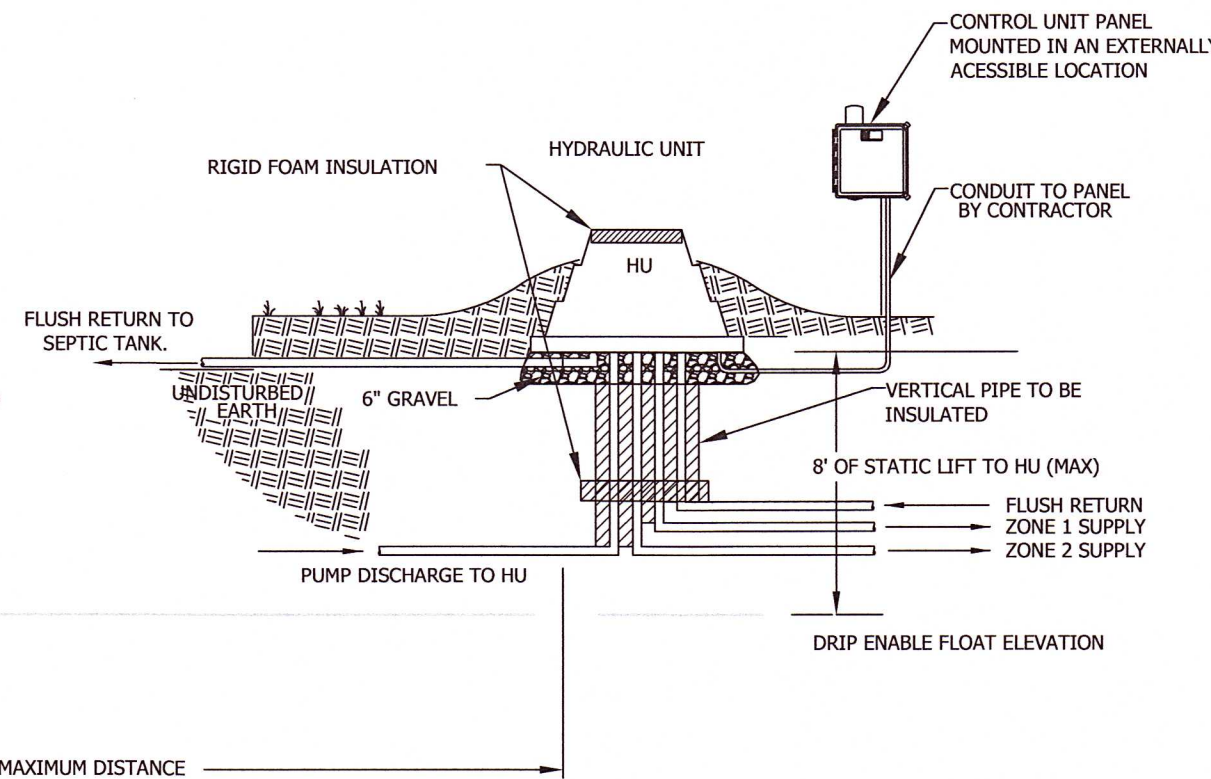
- Measure the distance from the bottom of the tank to 6" down from the top of the riser. Cut the extension pipe (by others) to the length necessary to reach this height. Cut half of the pipe down 12" to 18" away from the top of the pipe for a pump discharge pipe and attach to riser. (see detail A)
- Glue the extension coupling (by others) to the extension pipe and to the cool guide.
- For reuse of existing concrete pump chambers: glue on the cool guide flat cap and place the cool guide firmly in the bottom of the tank. Attach the extension to the riser with the anchors as shown.
- For use in new concrete pump chambers: anchor the flat cap to the bottom of the tank in the proper location to hold the cool guide and extension. The cap may or may not be glued to the device. Attach the extension with the anchors as shown.
- Place the pipe dope on the cool guide adapter threads and thread them into the pump discharge.
- Attach cooling collar to adapter with set screw provided.
- Glue pipe into flow collar and with pump attached, lower into the guide tube.
- Attach to discharge pipe, valves, and connect electrical and specified.



PERC-RITE HYDRAULIC UNIT (15 GPM)
(NOT TO SCALE)

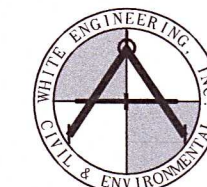


TYPICAL PUMP TANK & HYDRAULIC UNIT DETAIL
(NOT TO SCALE)



CROSS SECTION INSULATION DETAIL
(NOT TO SCALE)

PROPOSED PLANTING PLAN for MICHAEL & REBECCA BELLORA			
38 LAKE DRIVE	TAX MAP #101 LOT #26	STOCKBRIDGE, MA	
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1	MOVED SOIL ABSORPTION SYSTEM OUTSIDE 50' WELL SETBACK, WELL TEST NOTE	AJB	6/14/2022
NO.	REVISION	BY	DATE



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DATE: MAY 10, 2022	DRN: AJB	APVD: BMW	DWG NO: 21-06-04D
BY: BMW	CVD: BMW	SCALE: AS NOTED	SHEET 4 OF 4