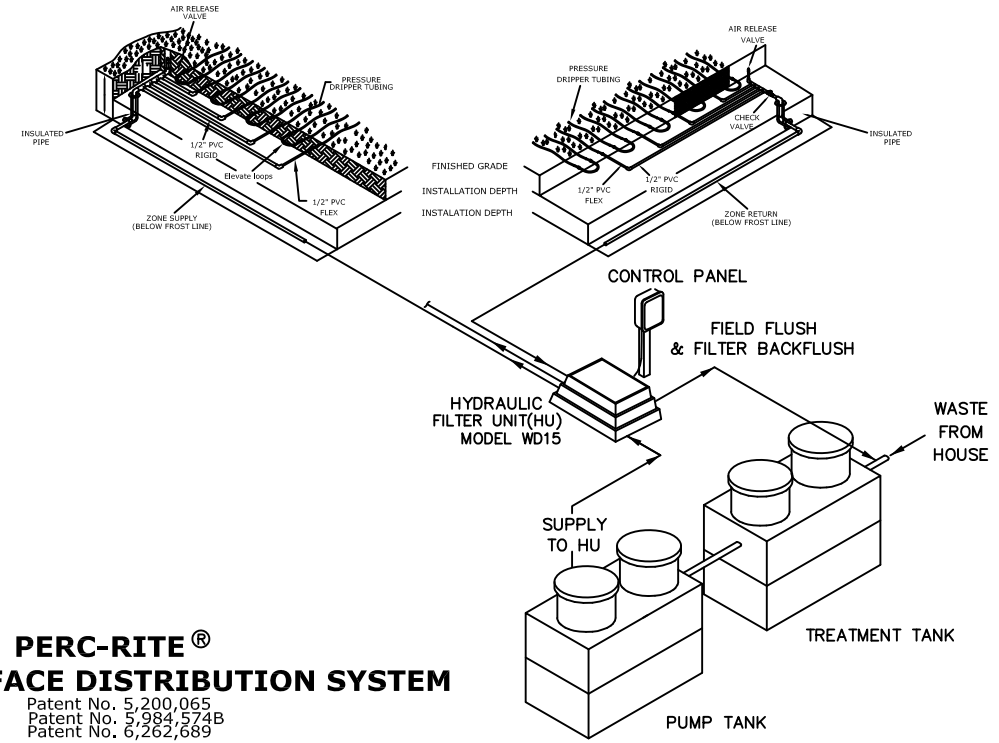
LOCATION MAP

SITE DIRECTIONS



PERC-RITE®
SUBSURFACE DISTRIBUTION SYSTEM

Patent No. 5,200,065
Patent No. 5,984,574B
Patent No. 6,262,689

SCOPE: Household Sewage will flow by gravity through a treatment tank, then to a drip dispersal equalization pump tank. From the drip pump tank the effluent is filtered through a 115 micron disc filter and dispersed through a drip dispersal piping network. The network is composed of pressure compensating drip tubing laid on contour and managed by the Perc-Rite® process.

_____ has designed the drip dispersal system for the specific site in accordance with findings recommendations with the site evaluator/soils evaluator, who is the consultant for the owner. American's pre-engineered system has been selected for the site by the owners representative. American only certifies the system mechnical application for this site and makes no representation for soil suitability or other site engineering code requirements.

CONTENTS:

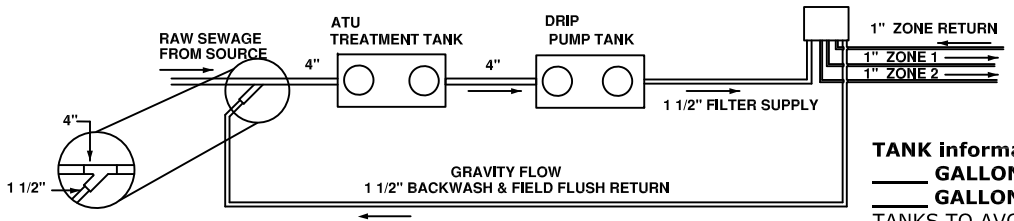
Page 1 . . . . . Cover Sheet
Page 2 . . . . . Site Layout Plan
Page 3 . . . . . Hydraulic Profile, Pump Tank, & Zone Details
Page 4 . . . . . Control Details, Pump Curve, & Cool Guide
Page 5 . . . . . Drip Hydraulic Unit Details
Page 6 . . . . . Drip Detail Schematics
Page 7 . . . . . Drip Calculation Sheet
Page 8 . . . . . Construction Notes

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PROJECT NAME : JOB NAME	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
COUNTY : COUNTY, STATE	TITLE : COVER SHEET PERC-RITE® DRIP DESIGN	
	SCALE : NTS	SHEET: 1 OF 8

SITE PLAN (SYSTEM LAYOUT SKETCH)

SCALE: 1" = ___'±

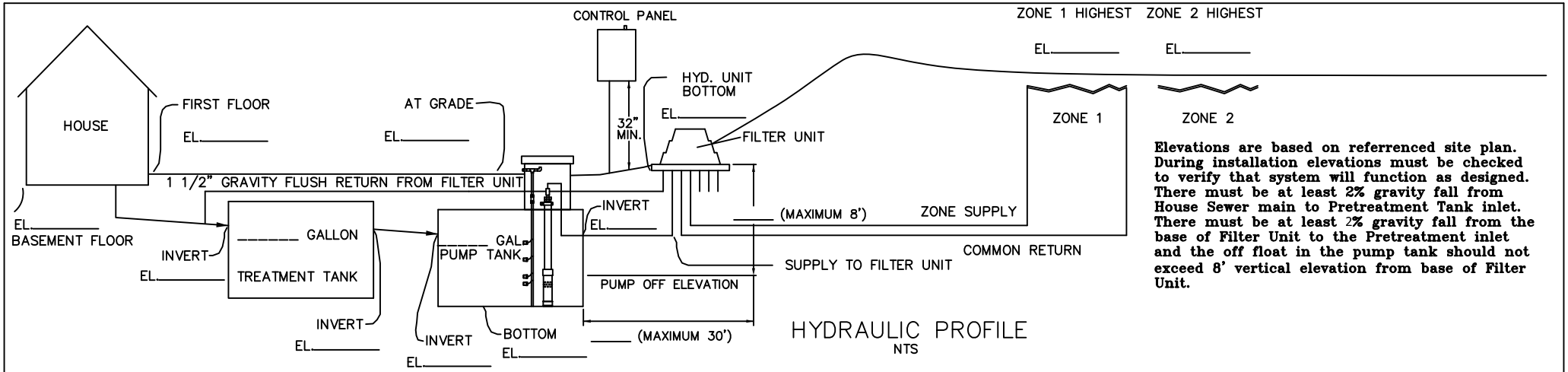


TANK EQUIPMENT AREA
SCHEMATIC PLAN
NOT TO SCALE

TANK information:
____ GALLON _____ TANK,
____ GALLON DRIP PUMP TANK. INSTALL TANKS TO AVOID SWALES OR LOW LYING AREAS!

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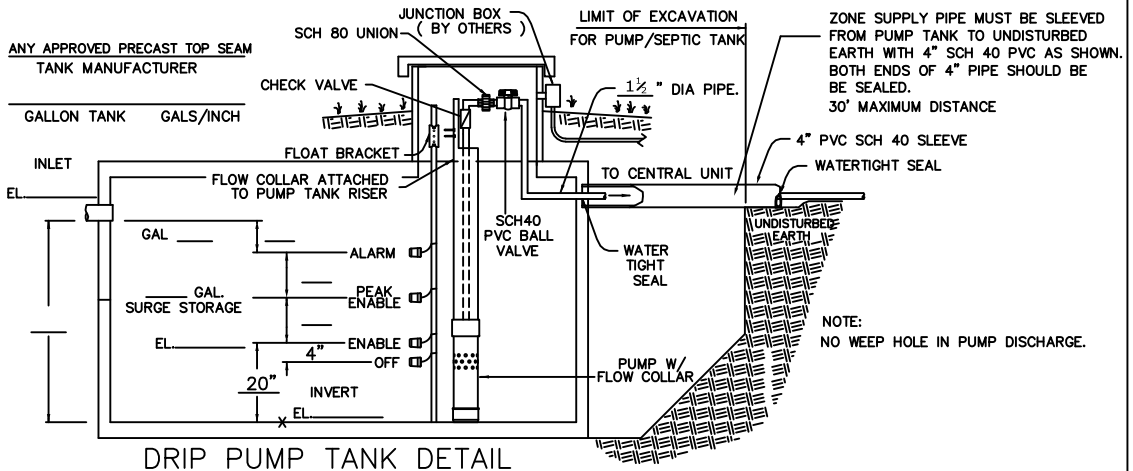
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	CHECKED:	DATE:
	APPROVED:	DATE:
COUNTY : COUNTY, STATE	TITLE : SITE LAYOUT PLAN	
	SCALE :	SHEET: 2 OF 8



HYDRAULIC PROFILE
NTS

Elevations are based on referrenced site plan. During installation elevations must be checked to verify that system will function as designed. There must be at least 2% gravity fall from House Sewer main to Pretreatment Tank inlet. There must be at least 2% gravity fall from the base of Filter Unit to the Pretreatment inlet and the off float in the pump tank should not exceed 8' vertical elevation from base of Filter Unit.

ZONE DETAIL Z____
(NOT TO SCALE)



DRIP PUMP TANK DETAIL
NTS

NOTE: Install tubing on contour at __" depth. Install Supply and Return Lines at __ - __' (Below frost line) Minimize site activity, NO machinery on site except minimum required to install tubing. SITE PROTECTION IS VERY IMPORTANT!

NOTE: _-Zone drip detail (Z___) with _ laterals, _ tubing runs per lateral for a total of __ tubing runs @ ___' length = ____ total LF tubing.

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PROJECT NAME :	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
JOB NAME	TITLE : HYDRAULIC PROFILE, DRIP & ZONE DETAILS	
COUNTY : COUNTY, STATE	SCALE : NTS	SHEET: 3 OF 8

AMERICAN PERC-RITE® CONTROLS

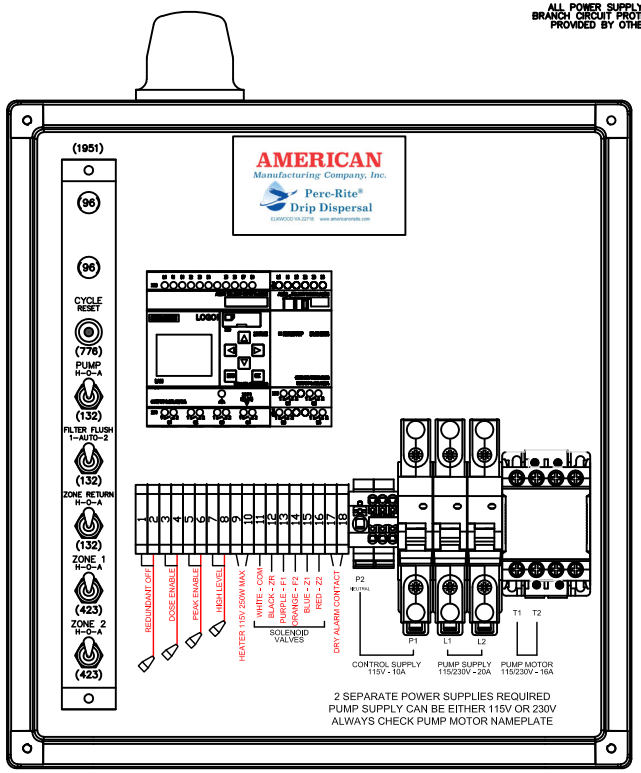
American Manufacturing Co., Inc. P.O. Box 97 Elkwood, VA 22718

Simplex 2 Zone PERC-RITE Drip System

AMERICAN ONSITE CONTROLS
AMERICAN MANUFACTURING COMPANY INC.
P.O. BOX 97 ELKWOOD, VA 22718
(800) 345-3132 www.americanonsite.com

TORQUE SETTINGS		
TERMINAL	WIRE SIZE	TORQUE
1B1	10-28awg	5-7 in-lbs
P1,1L1,1L2	4-18awg	31 in-lbs
1T1,1T2	10-18awg	7 in-lbs

ALL POWER SUPPLY BRANCH CIRCUIT PROTECTION PROVIDED BY OTHERS



INSTALLATION NOTES:

PLEASE REVIEW ALL PAGES AND INSERTS IN THIS MANUAL BEFORE ATTEMPTING TO INSTALL ANY CONTROL EQUIPMENT

1. DASHED LINES REPRESENT TERMINALS, EQUIPMENT, AND/OR OPTIONS THAT MAY OR MAY NOT BE PRESENT IN EACH SYSTEM COVERED BY THIS MANUAL
2. BRANCH CIRCUIT PROTECTION MUST BE PROVIDED BY OTHERS
3. SINGLE (1) PHASE PUMP MOTORS MUST HAVE INTERNAL THERMAL OVERLOAD PROTECTION
4. TEMPERATURE RATING OF FIELD INSTALLED COPPER CONDUCTORS MUST BE AT LEAST 140°F (60°C)
5. PUMP SUPPLY MUST MATCH REQUIRED PUMP VOLTAGE
   CONDUIT ENTRANCE MUST MATCH ENCLOSURE RATING
6. PUMP AND PANEL VOLTAGE CODE MUST BE EQUIVALENT TO INCOMING PUMP AND CONTROL POWER SUPPLIES
7. OVERLOAD/MOTOR PROTECTORS UNIT MAY REQUIRE ADJUSTMENT TO MATCH PUMP FULL LOAD AMPS
8. SEPARATE OVERLOAD NOT REQUIRED WHEN MOTOR PROTECTORS ARE SUPPLIED
9. CONTROL/ALARM SUPPLY MUST BE SEPARATE FROM THE PUMP SUPPLY

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c UL us

2 ZONE DRIP CONTROL SYSTEM
INSTALLATION GUIDE FOR "DP0" SERIES CONTROL
1 PHASE, 115/230V, NEMA 4X

MODEL#	DP022-SAB124-AJLR(A)X(21,34)		
DWG#	X9510-2Z		REVISION -
DATE	08/26/2025	DRAWN BY MPH	APPROVED -
FILE PATH			PAGE 1

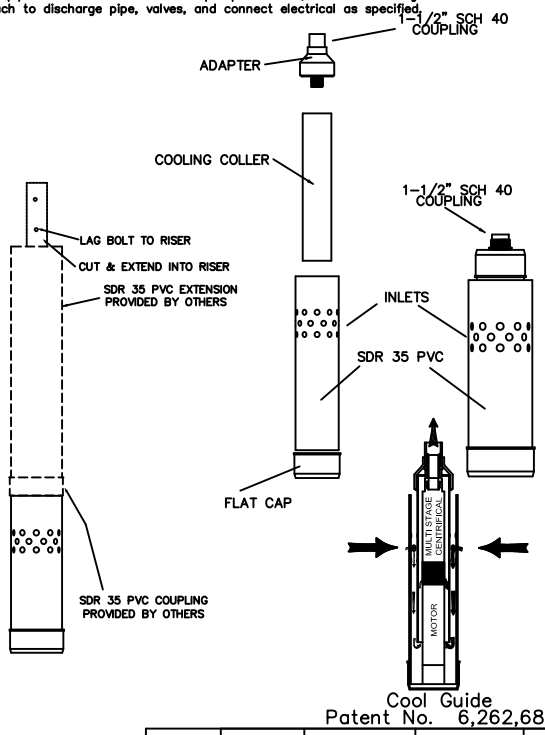
COOL GUIDE

FLOW COLLAR (COOL GUIDE) SPECIFICATION

The laminar flow collar shall be made of non-corrosive, glueable PVC and have sufficient holes in the outer guide tube to assure laminar flow for the rated capacity. The inner flow collar shall extend near the bottom to provide sufficient cooling flow for the motor. The dimension between the inner collar and the pump motor shall not restrict flow to the pump intake, but will provide for scouring of surfaces. The laminar flow collar shall be a "Cool Guide" as manufactured by American Manufacturing Company, Inc. Patent # 6,262,689.

"COOL GUIDE" INSTALLATION INSTRUCTIONS

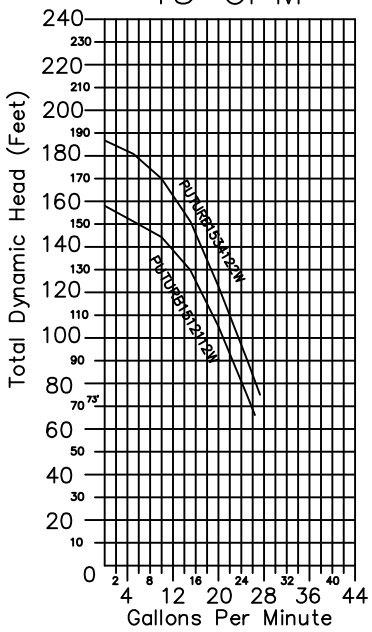
1. Measure the distance from the bottom of the tank to 6" down from the top of the riser. Cut the extension pipe (by others) to the length necessary to reach this height. Cut 1/2 of the pipe down 12" to 18" away from the top of the pipe for pump discharge pipe.
3. Glue the extension coupling (by others) to the extension pipe and to the Cool Guide.
4. For repairs: glue on the Cool Guide flat cap and place the Cool Guide firmly in the the tank. Attach the extension to the riser, with the anchors as shown.
5. For new construction: Anchor the flat cap to the bottom of the tank in the proper location to hold Cool Guide and extension. The cap may or may not be glued to the device. Attach the extension to the riser with the anchors as shown.
6. Place the pipe dope on the Cool Guide adapter threads and thread them into pump discharge.
7. Attach cooling collar to adapter with set screw provided.
8. Glue pipe into flow collar and with pump attached, lower into the guide tube.
9. Attach to discharge pipe, valves, and connect electrical as specified.



Cool Guide
Patent No. 6,262,689

PUMP CURVE

15 GPM



PUTURB1512112W 1/2HP, 115V, 1PH, 2WIRE
PUTURB1512122W 1/2HP, 230V, 1PH, 2WIRE
PUTURB1534122W 3/4HP, 230V, 1PH, 2WIRE

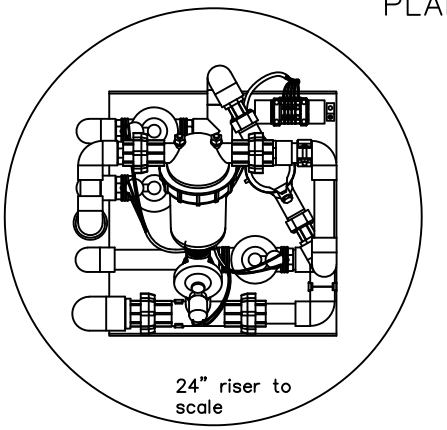
15 GPM @ 125 FT
BACKWASH TDH

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PROJECT NAME :	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
JOB NAME	TITLE : CONTROL, COOL GUIDE & PUMP CURVE DETAILS	
COUNTY : COUNTY, STATE	SCALE : NTS	SHEET: 4 OF 8

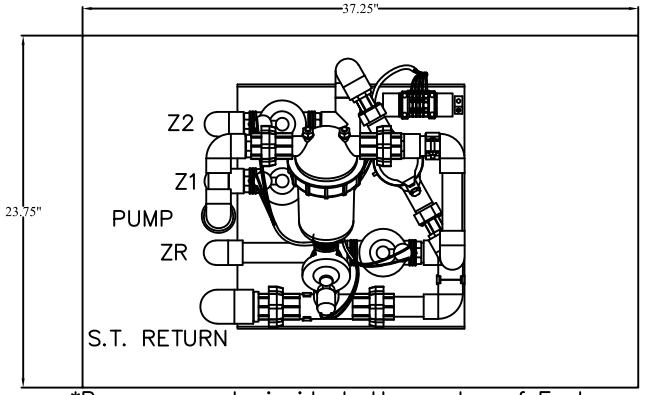
AMERICAN MFG. COMPANY
WASHDOWN–FILTER – 15 GPM
HYDRAULIC UNIT

*Riser Enclosure
Provided by others

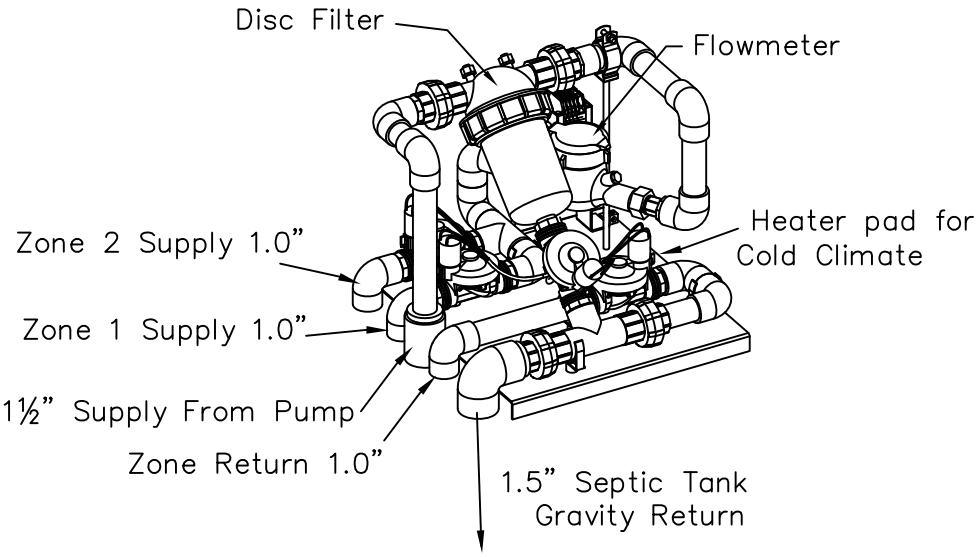


OPTIONAL WD15 HYD. UNIT INSULATED ENCLOSURE #INSENCLOSURE

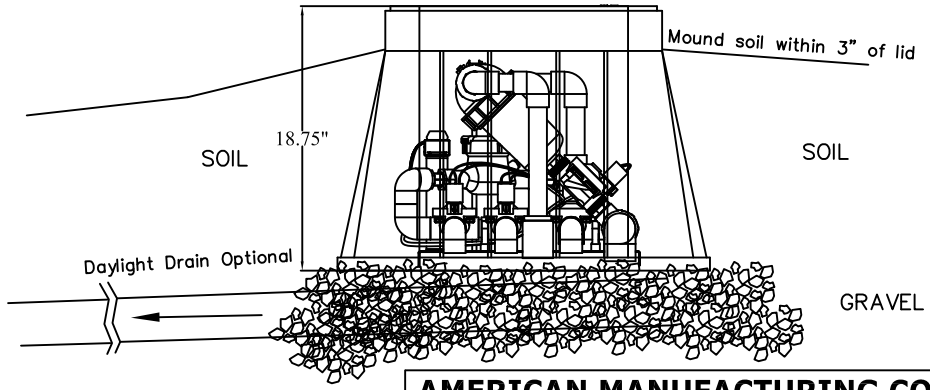
PLAN VIEW*



*Box represents inside bottom edge of Enclosure



WD15 HYD. UNIT INSULATED ENCLOSURE #INSENCLOSURE
PLACE ON GRAVEL WITH DRAINAGE



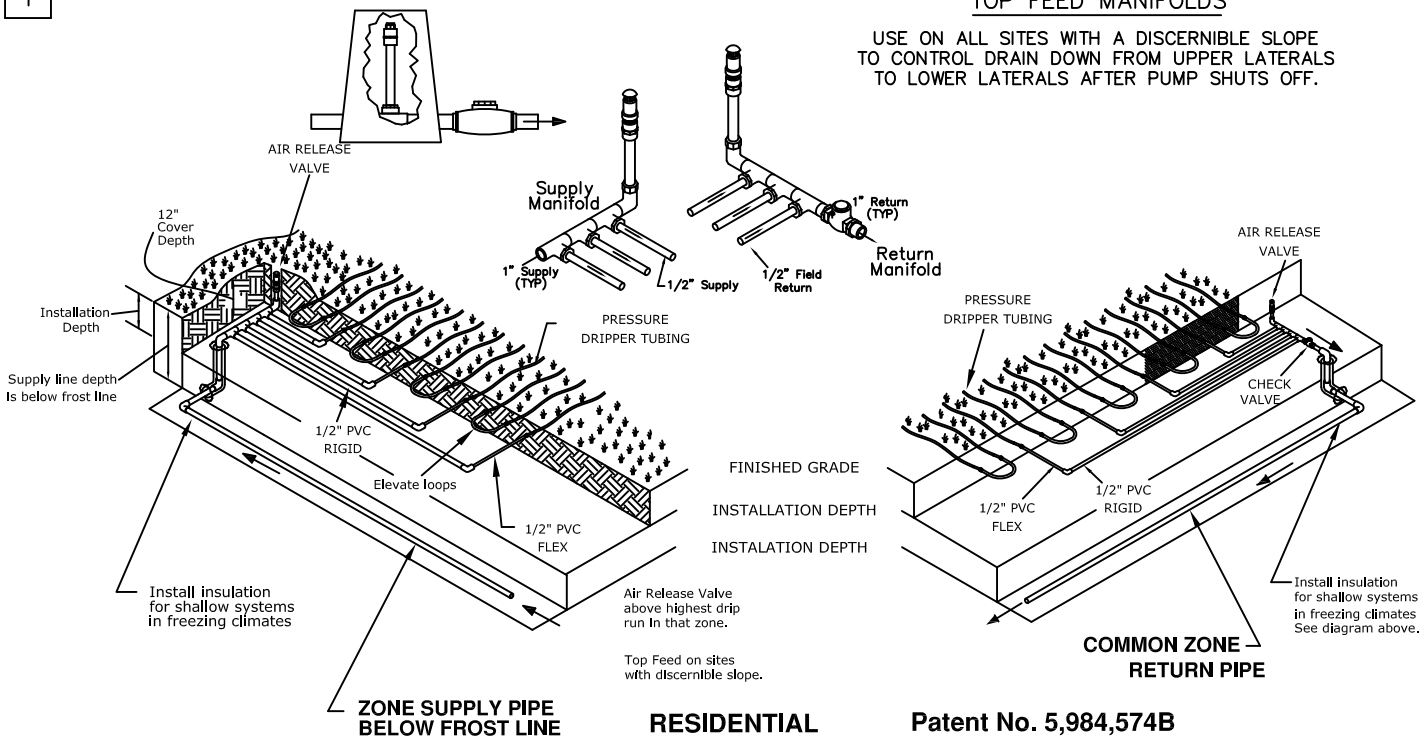
WD15 Hydraulic units to be placed on a bed of gravel for drainage.
If ponding or groundwater is a possibility, a screened drain to daylight is required beneath hydraulic unit.

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PROJECT NAME : JOB NAME	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
	TITLE : DRIP HYDRAULIC UNIT DETAILS	
COUNTY : COUNTY, STATE	SCALE : NTS	SHEET: 5 OF 8

STANDARD RESIDENTIAL DRIP SYSTEM DETAILS

1



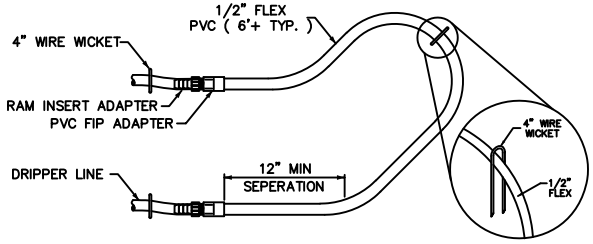
TOP FEED MANIFOLDS

USE ON ALL SITES WITH A DISCERNIBLE SLOPE
TO CONTROL DRAIN DOWN FROM UPPER LATERALS
TO LOWER LATERALS AFTER PUMP SHUTS OFF.

RESIDENTIAL

Patent No. 5,984,574B

2



BURIED DRIP LOOP CONNECTION

NTS

Elevate Loops to freely drain into drip tubing between dosing cycles.

Tubing and Supply Pipe Installation:

1. All tubing shall be installed along the site contour (each pull of drip tubing to follow grade).
2. All PVC pipe and fittings shall be PVC SCH 40 Type 1 rated for pressure applications.
3. All glued joints shall be cleaned, deburred and primed with colored (dyed) PVC primer prior to being glued.
4. All cutting of PVC pipe, flexible PVC and dripper tubing of size 1 1/2" or smaller shall be accomplished with ratcheting or powered blade type pipe cutters approved by American Manufacturing Co, Inc. **No sawing of PVC, flexible PVC or dripper tubing of size 1 1/2" or smaller allowed.**
5. All PVC pipes, flexible PVC and dripper tubing in the work area shall have the ends covered with duct tape prior to final gluing to prevent construction debris from entering the pipe. Prior to gluing, all joints shall be inspected for and cleared of any construction debris. Pipe must be clear of debris, gravel, dirt, etc.
6. Drip supply and return lines and manifolds to be installed at adequate depth to prevent freezing.
7. Drip manifolds must be installed according to design for proper air and vacuum release functions.
8. Horizontal spacing between the dripper lines and the installation depth to be as specified in design.
9. All force mains shall be flushed and tested for leaks during system startup. Uncovered force mains shall be visibly inspected for leaks.

AMERICAN MANUFACTURING CO.

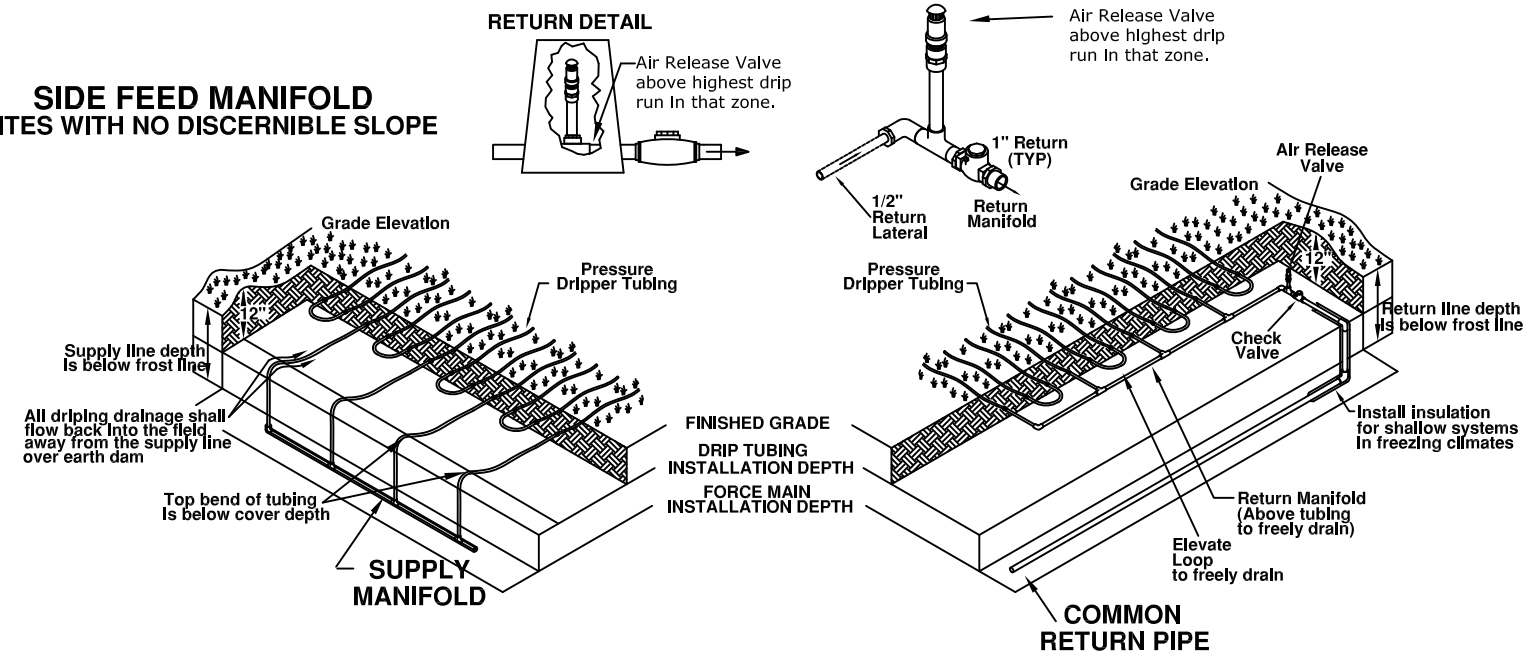
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PROJECT NAME :	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
JOB NAME	TITLE : DRIP DETAIL SCHEMATICS	
COUNTY : COUNTY, STATE	SCALE : NTS	SHEET: 6 OF 8

STANDARD RESIDENTIAL DRIP SYSTEM DETAILS

1

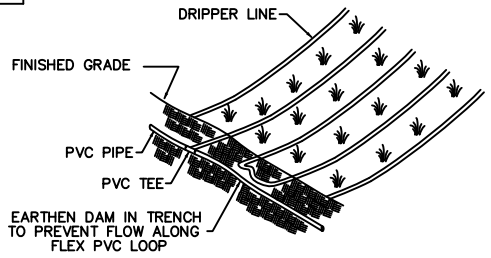
SIDE FEED MANIFOLD
SITES WITH NO DISCERNIBLE SLOPE



Tubing and Supply Pipe Installation:

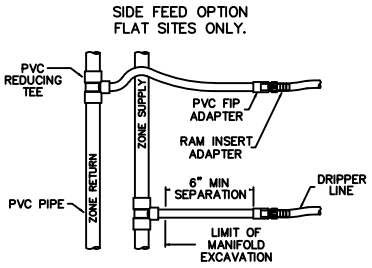
1. All tubing shall be installed along the site contour (each pull of drip tubing to follow grade).
2. All PVC pipe and fittings shall be PVC SCH 40 Type 1 rated for pressure applications.
3. All glued joints shall be cleaned, deburred and primed with colored (dyed) PVC primer prior to being glued.
4. All cutting of PVC pipe, flexible PVC and dripper tubing of size 1 1/2" or smaller shall be accomplished with ratcheting or powered blade type pipe cutters approved by American Manufacturing Co, Inc. **No sawing of PVC, flexible PVC or dripper tubing of size 1 1/2" or smaller allowed.**
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8. Horizontal spacing between the dripper lines and the installation depth to be as specified in design.
9. All force mains shall be flushed and tested for leaks during system startup. Uncovered force mains shall be visibly inspected for leaks.

2



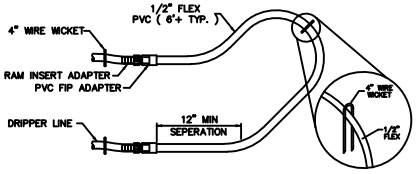
DRIPPER LINE SECTION DETAIL
NTS
SIDE FEED OPTION
FLAT SITES ONLY.

3



DRIP LINE CONNECTION TO MANIFOLD
NTS

4



BURIED DRIP LOOP CONNECTION
NTS

Elevate Loops to freely drain into drip tubing between dosing cycles.

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PROJECT NAME :	DRAFTER:	DATE:
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	APPROVED:	DATE:
	TITLE : DRIP DETAIL SCHEMATICS	
COUNTY :		
	SCALE : NTS	SHEET: OF

PERC-RITE DRIP CALCULATION SHEET

1)_____ GALLONS PER DAY __ BEDROOMS
2)_____ FT. x _____ FT. AREA FOR DISPOSAL LAYOUT
2a)_____ FT2 +/-
3)_____ GPD/SQ FT SOIL LOADING RATE PROVIDED (#1/#2a)
4)___ ZONES
5)_____ TOTAL DRIPPER LINE PROVIDED
6)_____ SEPTIC TANK SIZE (ATU)
7)_____ DOSING TANK SIZE
8)_____ GALLONS PER INCH DOSING TANK
9) ZONE ONE
10)_____ TOTAL ABSORPTION AREA SQ FT
11)_____ LINEAR FEET DRIPPER LINE
12)_____ LONGEST LATERAL LENGTH FT
13)_____ DOSING FLOW RATE (GPM)
14)___ NUMBER OF RETURN FIELD FLUSH CONNECTIONS
15)_____ FIELD FLUSH FLOW RATE (GPM)
16)_____ TOTAL FLOW REQUIRED (GPM)[#13 & #15]
17) ZONE TWO
18)_____ TOTAL ABSORPTION AREA SQ FT
19)_____ LINEAR FEET DRIPPER LINE
20)___ LONGEST LATERAL LENGTH FT
21)_____ DOSING FLOW RATE (GPM)
22)___ NUMBER OF RETURN FIELD FLUSH CONNECTIONS
23)_____ FIELD FLUSH FLOW RATE (GPM)
24)_____ TOTAL FLOW REQUIRED (GPM)[#21 & #23]
25) ZONE THREE
26)_____ TOTAL ABSORPTION AREA SQ FT
27)_____ LINEAR FEET DRIPPER LINE
28)_____ LONGEST LATERAL LENGTH
29)_____ DOSING FLOW RATE (GPM)
30)_____ NUMBER OF RETURN FIELD FLUSH CONNECTIONS
31)_____ FIELD FLUSH FLOW RATE (GPM)
32)_____ TOTAL FLOW REQUIRED (GPM)[#29 & #31]
33) ZONE FOUR
34)_____ TOTAL ABSORPTION AREA SQ FT
35)_____ LINEAR FEET DRIPPER LINE
36)_____ LONGEST LATERAL LENGTH FT
37)_____ DOSING FLOW RATE (GPM)
38)_____ NUMBER OF RETURN FIELD FLUSH CONNECTIONS
39)_____ FIELD FLUSH FLOW RATE (GPM)
40)_____ TOTAL FLOW REQUIRED (GPM)[#37 & #39]
41)_____ MAXIMUM DESIGN FLUSHING FLOW (GPM)
42)___ FEET HEAD LOSS HYDRAULIC UNIT (FROM TABLE 2A BASED ON #41)

43) HYDRAULIC UNIT SUPPLY LINE SIZE (1-1/2" TYPICAL)
44)_____ INCH PIPE DIA.
45)___ LENGTH SUPPLY PIPE FT
46)__ FT. STATIC LIFT (CENTRAL UNIT ELEVATION - OFF FLOAT ELEVATION)
47)_____ TOTAL FEET HEAD LOSS LINE (DYNAMIC HEAD LOSS + #46)
48) FORCE MAIN SUPPLY LINE PIPE SIZE & LENGTH [BASED ON TOTAL FLOW]
49)__"ø ZONE ONE SIZE, ___ ZONE ONE LENGTH _____ FEET HEAD LOSS
50)__"ø ZONE TWO SIZE, ___ ZONE TWO LENGTH _____ FEET HEAD LOSS
51)_____"ø ZONE THREE SIZE, _____ ZONE THREE LENGTH _____ FEET HEAD LOSS
52)_____"ø ZONE FOUR SIZE, _____ ZONE FOUR LENGTH _____ FEET HEAD LOSS
53) RETURN FLUSH LINE PIPE SIZE & LENGTH
54)__"ø ZONE ONE SIZE, _____ ZONE ONE LENGTH _____ FEET HEAD LOSS
55)__"ø ZONE TWO SIZE, _____ ZONE TWO LENGTH _____ FEET HEAD LOSS
56)_____"ø ZONE THREE SIZE, _____ ZONE THREE LENGTH _____ FEET HEAD LOSS
57)_____"ø ZONE FOUR SIZE, _____ ZONE FOUR LENGTH _____ FEET HEAD LOSS
58)_____ FEET HEAD LOSS TOTAL STATIC (VERTICAL LIFT)
59) TOTAL PRESSURE LOSS (ADD ITEMS; 42,47,49-52,54-57,58,+FLUSHING TABLE 3A)[HIGHEST EMITTER-ELECTRICAL UNIT ELEV.]
60)_____ ZONE ONE HEAD LOSS, INCLUDES ___ FEET FLUSHING
61)_____ ZONE TWO HEAD LOSS, INCLUDES ___ FEET FLUSHING
62)_____ ZONE THREE HEAD LOSS, INCLUDES _____ FEET FLUSHING
63)_____ ZONE FOUR HEAD LOSS, INCLUDES _____ FEET FLUSHING
} FROM TABLE 3A BASED ON LONGEST LATERAL
64) PUMP SIZING
65)_____ MAXIMUM PRESSURE LOSS TOTAL (HIGHEST FEET 60-63)
66)_____ DISC FILTER BACKFLUSH (#47 + 115' @15 GPM)
67)___ GPM @ _____ FEET (LARGER OF 65 & 66)
68) PUMP MODEL: _____
69)_____ GPM @ _____ FEET _____ VOLTS ___ PHASE ___ HP
70) TIME DOSING PER ZONE: Standard Rest Time: __:__m
Peak Rest Time: __:__m
71) ZONE ONE ___ GPM ___ MIN/DOSE ___ GAL/DOSE ___ AVE CYCLES ___ PEAK CYCLES
72) ZONE TWO ___ GPM ___ MIN/DOSE ___ GAL/DOSE ___ AVE CYCLES ___ PEAK CYCLES
73) ZONE THREE___GPM ___MIN/DOSE ___GAL/DOSE ___ AVE CYCLES ___ PEAK CYCLES
74) ZONE FOUR ___GPM ___MIN/DOSE ___GAL/DOSE ___ AVE CYCLES ___ PEAK CYCLES
(60%)AVERAGE _____GPD, PEAK _____GPD; TOT. AVE CYCLES _____, TOT. PEAK CYCLES _____

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PROJECT NAME : JOB NAME	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
	TITLE : CALCULATION SHEET	
COUNTY : COUNTY, STATE		
	SCALE : NTS	SHEET: 7 OF 8

COLD WEATHER INSTALLATION NOTES

Minimum construction techniques for all American Perc-Rite Drip systems in cold weather climates:

Top feed manifolds should be used on all sites with a discernible slope to allow for proper drainage of the manifolds and the 1/2" lateral connectors into the drip tubing.
The main supply and return lines shall be installed below the frost line and shall feed the shallow "top feed" manifolds with a single vertical section of insulated sch 40 PVC pipe. Insulation shall be minimum 1/2" thick foam insulation (or equivalent).
On flat sites where "top feed" manifolds will not drain therefore requiring the use of side feed manifolds, 12" cover is recommended between highest point of 1/2" black flexible PVC pipe (non loop connections) and final grade. On drip tubing installations less than 12" this would require additional cover over the header ditch area to create the 12" separation. Any additional cover is it to be graded and tapered into landscape. Please see note on loop connections below.
Dense vegetation turf cover to be established over supply trench, return trench and tubing prior to 1st exposure to cold weather. If vegetation cannot be established, then trenches and tubing to be covered with a thick layer (minimum 6") of mulch, straw/hay, etc. until such turf cover is established. Cover must be stabilized and maintained until dense vegetative turf is established. Amount of cover may need to be adjusted to account for settling.
All valve boxes that house "remote zone valves" shall be insulated by contractor. Insulation to consist of either blue board, bagged Styrofoam peanuts or equivalent. If fiberglass insulation is used it must be sealed to prevent it from becoming saturated.
The "remote valves" shall be placed on a bed of gravel or screenings (4"-6"). Positive grade away from valve boxes is encouraged to reduce the volume of groundwater that may collect in valve box. Certain sites may require positive drains to daylight.
All loops connecting drip runs with 1/2" flexible PVC shall be slightly elevated (minimum 1"-2") so that they drain into the drip tubing after the pump shuts off. It is contractors responsibility to ensure these loops stay elevated during and after the loops are backfilled.
All main supply and return trenches to be installed below the local frost line. If this is not possible due to site restrictions then adequate soil must be added over the top of the trenches so that the effective depth remains below the frost line after settling occurs. The added soils must be prepared for turf cover and stabilized. If vegetation cannot be established then trenches are to be covered with an additional layer (minimum 6") of mulch, straw/hay, etc. until such turf cover is established.
Sufficient ground cover around the hydraulic unit is required to insulate the unit. 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.
Additional insulation inside the hydraulic unit is encouraged. Insulation to consist of either blue board, bagged Styrofoam peanuts or equivalent. If fiberglass insulation is used it must be sealed to prevent it from becoming saturated.
All conduit entering into the control panel shall be sealed to prevent condensation inside the panel.
Established vegetation height shall be minimum 4"-6" throughout winter months.
Air release valves shall be placed below the ground surface inside a valve box but at an elevation above the highest drip line in that particular zone.

SITE CLEARING GUIDELINES

General guidelines for preparing/clearing a site for installation of an American Mfg. "Perc-Rite®" Drip System:

GENERAL REQUIREMENTS:

The preservation of the original structure of the soil in the absorption area is essential to maintaining the percolative capacity of the soil. **No** activity other than the construction of the system is permitted within the absorption area. On sites where a majority of the vegetation needs to be removed, care must be taken to minimize the impact on the soils natural permeability. There shall be **no** cutting, filling, or storage of material on or within 20' of the adsorption area. Site clearing and preparation shall be performed by the installation contractor for the wastewater dispersal system.
The absorption system is **not** to be constructed during periods of wet weather when the soil is sufficiently wet at the depth of installation to exceed its plastic limit. The plastic limit is exceeded when the soil can be rolled between the palms of the hands to produce threads 1/8 inch in diameter without breaking and crumbling.
After installation of the dispersal system, or if after clearing installation is not to be performed for 60 days, seed the area liberally with native grasses. The standard Department Of Transportation specification is acceptable consisting of perennial rye and fescue. At all times protect the installation area from erosion. Local codes shall apply for best management practices to control runoff.

SHALLOW INSTALLATIONS (surface to 8"):

Clearing and removal should be by hand with minimal machine assistance and under optimum soil moisture conditions. Track machines are preferred to those with rubber tires and should only be used around edges of installation. Soil moisture conditions need to be confirmed prior to beginning clearing and system installation by the soil scientist of record.

MID RANGE INSTALLATIONS (12" TO 24"):

All trees and brush, as necessary, should be "pulled out" (grubbed out) or cut flush with the ground surface. Stumps may be ground to two inches below the installation depth and the hole backfilled with sandy material to 6" above installation depth and the remainder with natural soil. When the soil is disturbed at the installation depth by pulling a stump, backfill the hole with sandy material to 6" above installation depth and the remainder with natural soil. Digging and pushing over trees may be more detrimental to the soils infiltrative characteristics. Track machines are preferred to those with rubber tires and should only be used during optimal soil moisture conditions. Soil moisture conditions need to be confirmed prior to beginning clearing and system installation by the soil scientist of record.

DEEP INSTALLATIONS (30" and deeper):

All trees and brush, as necessary, should be removed. When the soil is disturbed at the installation depth, backfill the hole with sandy material to 6" above installation depth and the remainder with natural soil. Stumps may be ground to two inches below the installation depth and the hole backfilled with sandy material to 6" above installation depth and the remainder with natural soil. Digging and pushing over trees may be more detrimental to the soils infiltrative characteristics than "pulling" and are **not** recommended. Track machines are preferred to those with rubber tires and should only be used during optimal soil moisture conditions. Soil moisture conditions need to be confirmed prior to beginning clearing and system installation by the soil scientist of record.

LARGE SCALE INSTALLATION TESTING:

Larger systems typically do not have water available for zone installation testing on a timely manner. It is desirable to water test an installed zone while the supply and return manifold header ditches are exposed to better inspect for leaks. In order to facilitate site and equipment protection and erosion control, the installation contractor shall provide sufficient water and the means to deliver and monitor the water to both flush and leak test each zone or subzone prior to backfill. The flushing volume shall be five times the volume of the piping network being flushed. The flushing velocity shall be in excess of 2-1/2 feet per second. The leak testing volume shall be at least 3 times the volume of the pipe. The leak test shall continue until steady state flow is achieved and the flow rate is within 6% of the design flow rate or as approved by the manufacturer or engineer. After successful testing and inspection the supply and return pipe connection points shall be sealed and protected from dirt and debris from entering prior to final connection.

American Manufacturing Perc–Rite® Drip Dispersal Systems

General Construction Notes:

1. Installation and construction techniques shall conform to state and county codes pertaining to onsite sewage systems and the permit for the site.
2. The installation of this system shall be in accordance with specifications and procedures as supplied by the manufacturer of the equipment.
3. The installer shall be authorized by American Manufacturing Company, Inc. or qualified representative to install this type of system and shall hold a pre-construction meeting with the individuals responsible for soil evaluation, permitting and inspections prior to site work beginning, to ensure protection of the site conditions and to ensure the system is installed according to design.
4. If site conditions require the installation of the system to deviate from the permitted plans, all work shall stop immediately, and the designer shall be notified. Any ongoing work shall be the sole responsibility of the installation contractor.

Site Protection:

1. The preservation of the original structure of the soil in the absorption area is essential to maintaining the percolative capacity of the soil.
2. **No** activity other than the construction of the system is permitted within the absorption area. On sites where a majority of the vegetation needs to be removed, care must be taken to minimize the impact on the soil's natural permeability.
3. There shall be **no** cutting, filling, or storage of material on or within 20' of the adsorption area. Site clearing and preparation shall be performed by the installation contractor for the wastewater dispersal system.
4. There shall be no equipment of any kind on drainfield for shallow or surface installations.
5. No activity on drainfield area other than a minimum required to install the system.
6. Do not park equipment, drive equipment or store materials on drainfield area
7. The absorption system is **not** to be constructed during periods of wet weather when the soil is sufficiently wet at the depth of installation to exceed its plastic limit. The plastic limit is exceeded when the soil can be rolled between the palms of the hands to produce threads 1/8 inch in diameter without breaking and crumbling.
8. After installation of the dispersal system, or if after clearing installation is not to be performed for 60 days, seed the area liberally with native grasses. The standard Department Of Transportation specification is acceptable consisting of perennial rye and fescue. At all times protect the installation area from erosion. Local codes shall apply for best management practices to control runoff.
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AMERICAN MANUFACTURING CO.

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PROJECT NAME : JOB NAME COUNTY : COUNTY, STATE	DRAFTER:	DATE:
	CHECKED:	DATE:
	APPROVED:	DATE:
	TITLE : GENERAL CONSTRUCTION, COLD WEATHER INSTALLATION & SITE CLEARING NOTES	
	SCALE : NTS	SHEET: 8 OF 8