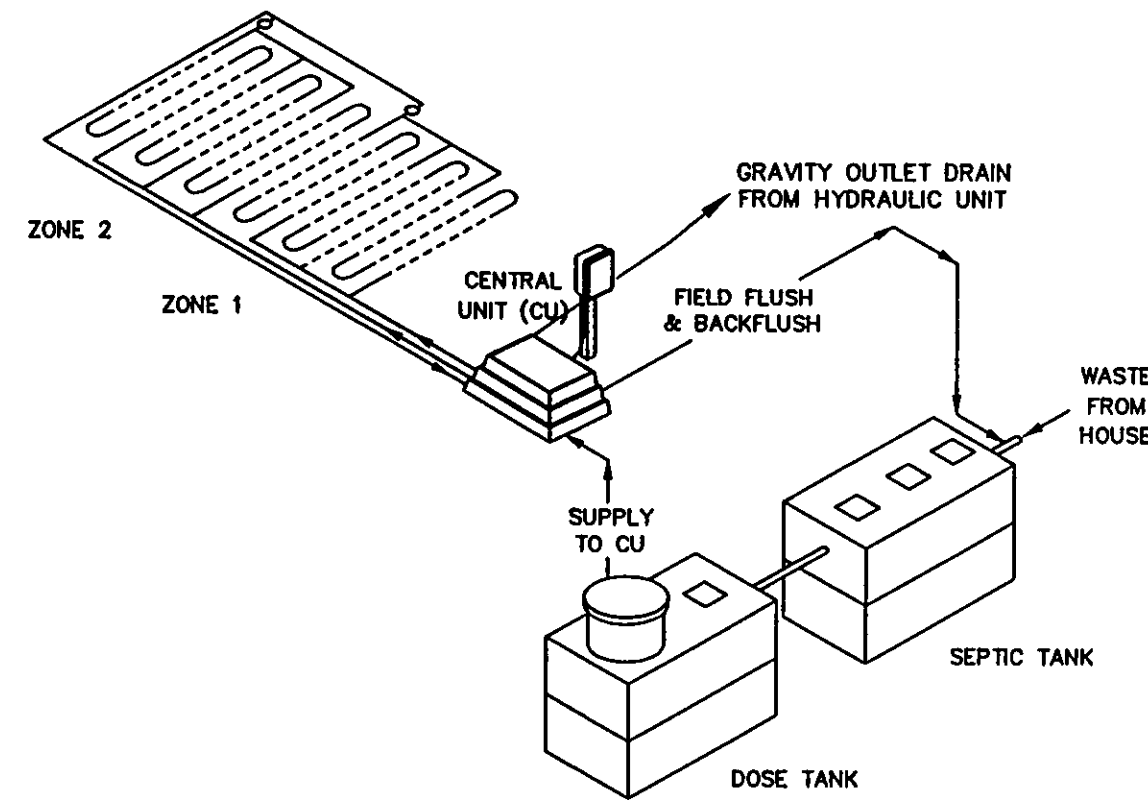
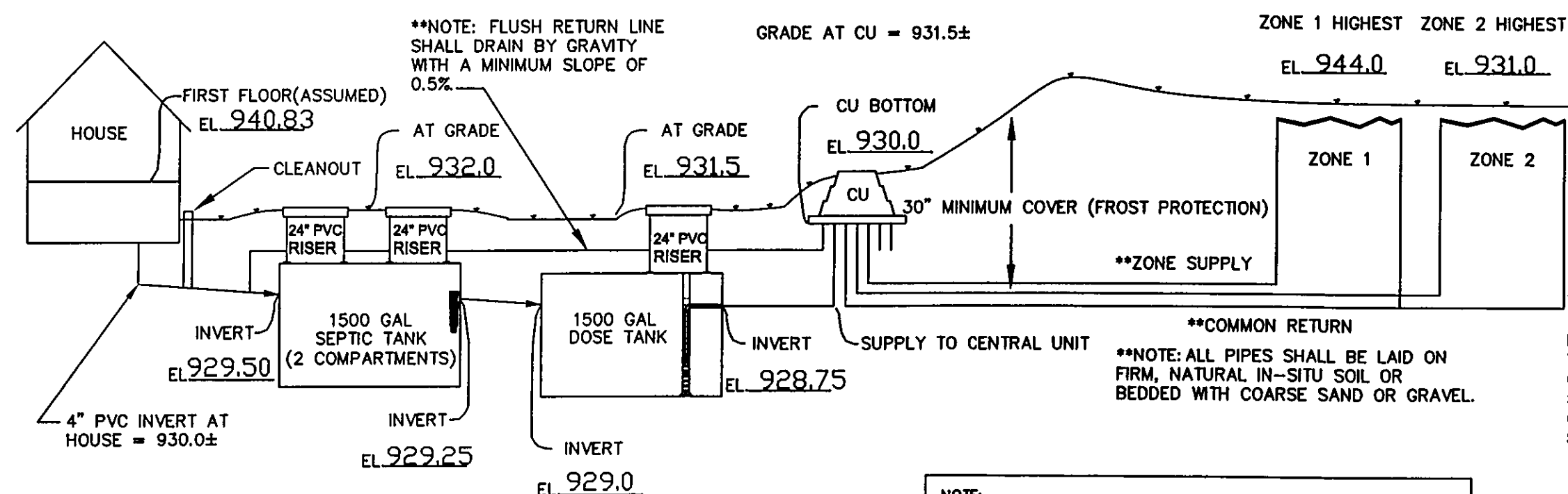


- GENERAL NOTES - DRIP DISPOSAL**
- ALL INSTALLATION AND CONSTRUCTION TECHNIQUES SHALL CONFORM TO COUNTY CODES AND OHIO DEPARTMENT OF HEALTH "SEWAGE TREATMENT SYSTEM RULES" PERTAINING TO ON-SITE SEWAGE SYSTEMS AND THE PERMIT FOR THIS SITE.
 - THE INSTALLATION OF THIS SYSTEM SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND PROCEDURES AS SUPPLIED BY THE MANUFACTURER OF THE EQUIPMENT.
 - ALL PVC PIPE AND FITTINGS SHALL BE PVC SCH 40 TYPE 1 RATED FOR PRESSURE APPLICATIONS. ALL GLUED JOINTS SHALL BE CLEANED AND PRIMED PRIOR TO BEING GLUED.
 - ALL CUTTING OF PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING SHALL BE ACCOMPLISHED WITH PIPE CUTTERS APPROVED BY MANUFACTURER. NO SAWING OF PVC, FLEXIBLE PVC OR DRIPPER TUBING IS ALLOWED.
 - ALL PVC PIPE, FLEXIBLE PVC AND DRIPPER TUBING IN THE WORK AREA SHALL HAVE THE ENDS COVERED WITH DUCT TAPE TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE PIPE. PRIOR TO GLUING, ALL JOINTS SHALL BE INSPECTED FOR AND CLEARED OF ANY CONSTRUCTION DEBRIS.
 - NO WET WEATHER INSTALLATION IS PERMITTED.
 - NO ACTIVITY ON DRAINFIELD AREA NOR ON REPLACEMENT AREA OTHER THAN MINIMUM REQUIRED TO INSTALL SYSTEM. DO NOT PARK EQUIPMENT, DRIVE LARGE EQUIPMENT OVER, OR STORE MATERIALS ON DRAINFIELD NOR ON REPLACEMENT AREA SITE.
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 - THE BUILDING SEWER SHALL BE 4" SCH 40 PVC WITH A MINIMUM SLOPE OF 1/2" PER FOOT. THERE SHALL BE NO BENDS GREATER THAN 45 DEGREES. CLEANOUTS SHOULD BE PROVIDED EVERY 100 FEET. FOR CONSTRUCTION TECHNIQUES REFER TO THE "SEWAGE TREATMENT SYSTEM RULES".
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 - THE CONTRACTOR SHALL BE QUALIFIED TO INSTALL THIS TYPE OF SYSTEM BY THE MANUFACTURER AND SHALL HOLD A PRE-CONSTRUCTION MEETING WITH THE INDIVIDUALS RESPONSIBLE FOR SOIL EVALUATION, PERMITTING, AND INSPECTIONS PRIOR TO BEGINNING SITE WORK. THIS IS REQUIRED TO INSURE PROTECTION OF THE SITE CONDITIONS AND TO ENSURE THE SYSTEM IS INSTALLED ACCORDING TO DESIGN.
 - IF SITE CONDITIONS REQUIRE THE INSTALLATION OF THE SYSTEM TO DEVIATE FROM THESE PLANS, ALL SITE WORK SHALL STOP IMMEDIATELY AND THE DESIGNER SHALL BE NOTIFIED. ANY ONGOING WORK SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - DRAINFIELD SUPPLY, RETURN AND MANIFOLD LINES TO BE INSTALLED AT ADEQUATE DEPTH TO PREVENT FREEZING, OR AT A MINIMUM OF 30" BELOW GRADE.
 - AREAS DESIGNATED FOR INSTALLATION AND REPLACEMENT SHALL BE UNDISTURBED AND BE PROTECTED FROM DAMAGE OR DISTURBANCE. ANY DISTURBANCE OR DAMAGE OF THESE DESIGNATED AREAS MAY RESULT IN THE INVALIDATION OF THIS DESIGN PLAN. IF ANY DISTURBANCE OR DAMAGE HAS OCCURRED, INSTALLATION SHALL NOT PROCEED AND THE REGISTERED INSTALLER SHALL CONTACT THE OWNER, THE DRIP DISTRIBUTION RESPONSIBLE PARTY AND THE BOARD OF HEALTH.
 - AN AS-BUILT RECORD OF THE INSTALLATION IS REQUIRED FROM THE REGISTERED INSTALLER.



System Schematic
(Not Intended for Construction)

MOUND INSTALLATION
Engineered By:
StreamKey
Engineered Plumbing & Waterworks Solutions
10515 Reading Road
Cincinnati, OH 45241
513-792-1221

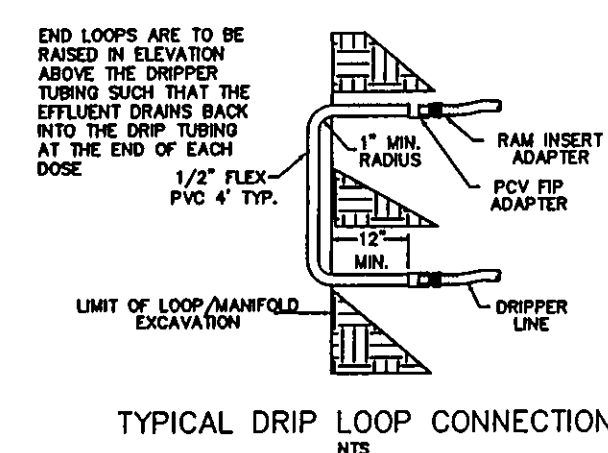


HYDRAULIC PROFILE
NOT INTENDED TO SHOW COMPONENT DETAILS
(NOT TO SCALE)

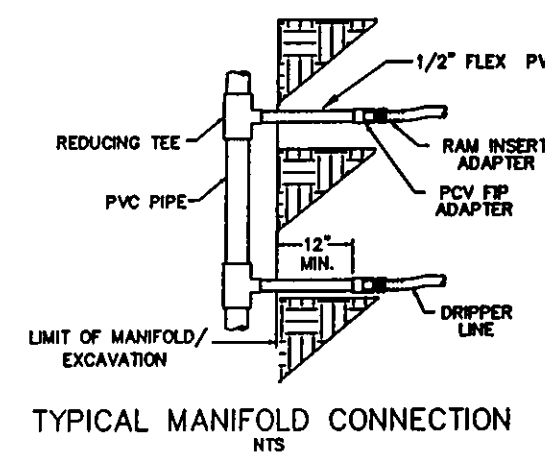
****IMPORTANT TANK NOTES**
THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING WATERPROOF TANKS. BOTH THE SEPTIC TANK AND THE DOSING TANK SHALL BE FITTED WITH FLEXIBLE BOOTS ON THE INLETS AND OUTLETS. TANK OPENINGS ARE TO HAVE ADAPTER RINGS CAST IN THE TOP TO ACCEPT PVC RISERS. TANKS SHALL BE WATER TIGHT PER OHIO ADMINISTRATIVE CODE CHAPTER 3701-29 "SEWAGE TREATMENT SYSTEM RULES".

****SYSTEM DESCRIPTION**
DOMESTIC SEWAGE WILL FLOW BY GRAVITY THROUGH THE SEPTIC TANK THEN INTO A FINAL DOSING TANK. THE CENTRAL UNIT WILL DISPOSE OF THE EFFLUENT BY ALTERNATELY DOSING MULTIPLE ZONES IN THE ABSORPTION AREA. THE CENTRAL UNIT COMPRISES BOTH THE CONTROLS AND THE HYDRAULIC UNIT. THE HYDRAULIC UNIT INCLUDES WASTEWATER FILTRATION, FLOW MEASUREMENT AND VALVING TO ISOLATE FLOWS TO ZONES.

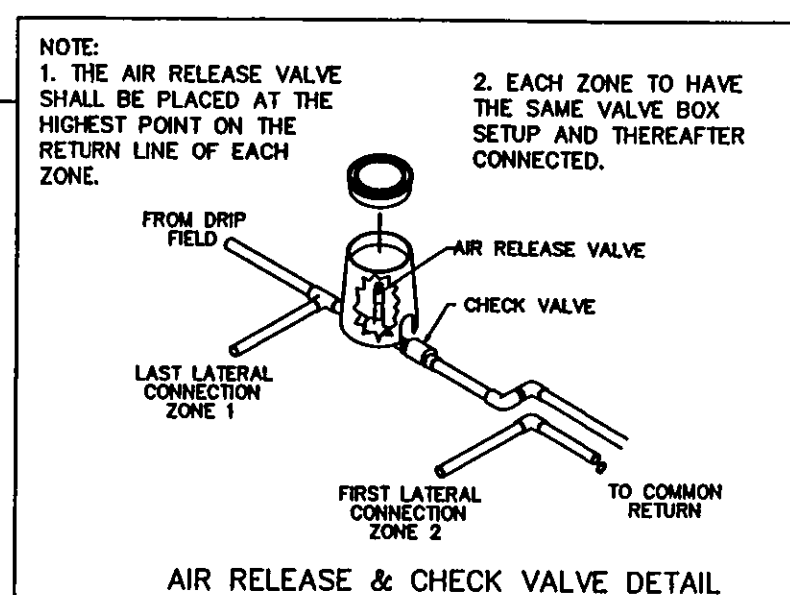
MOUND INSTALLATION
Engineered By:
StreamKey
Engineered Plumbing & Waterworks Solutions
10515 Reading Road
Cincinnati, OH 45241
513-792-1221



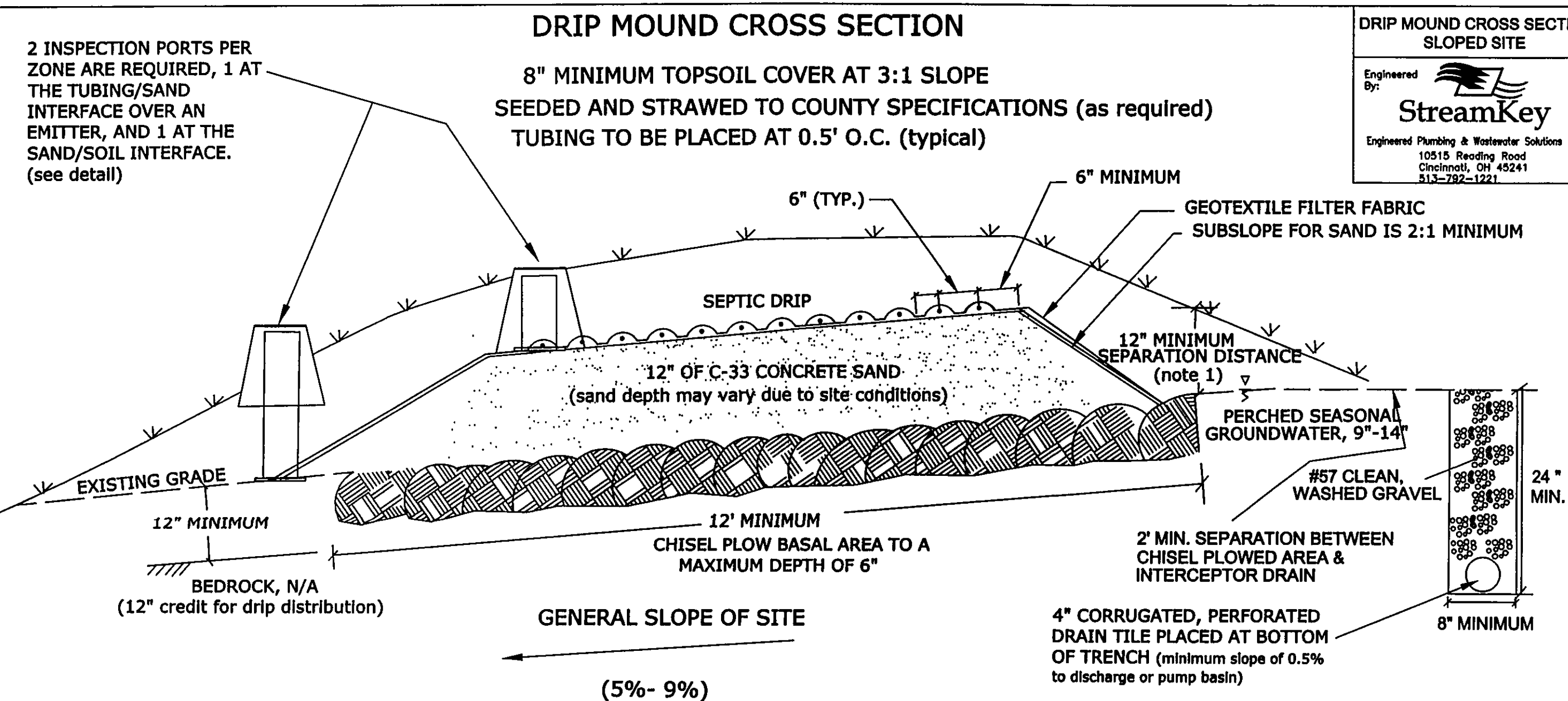
TYPICAL DRIP LOOP CONNECTION
NTS



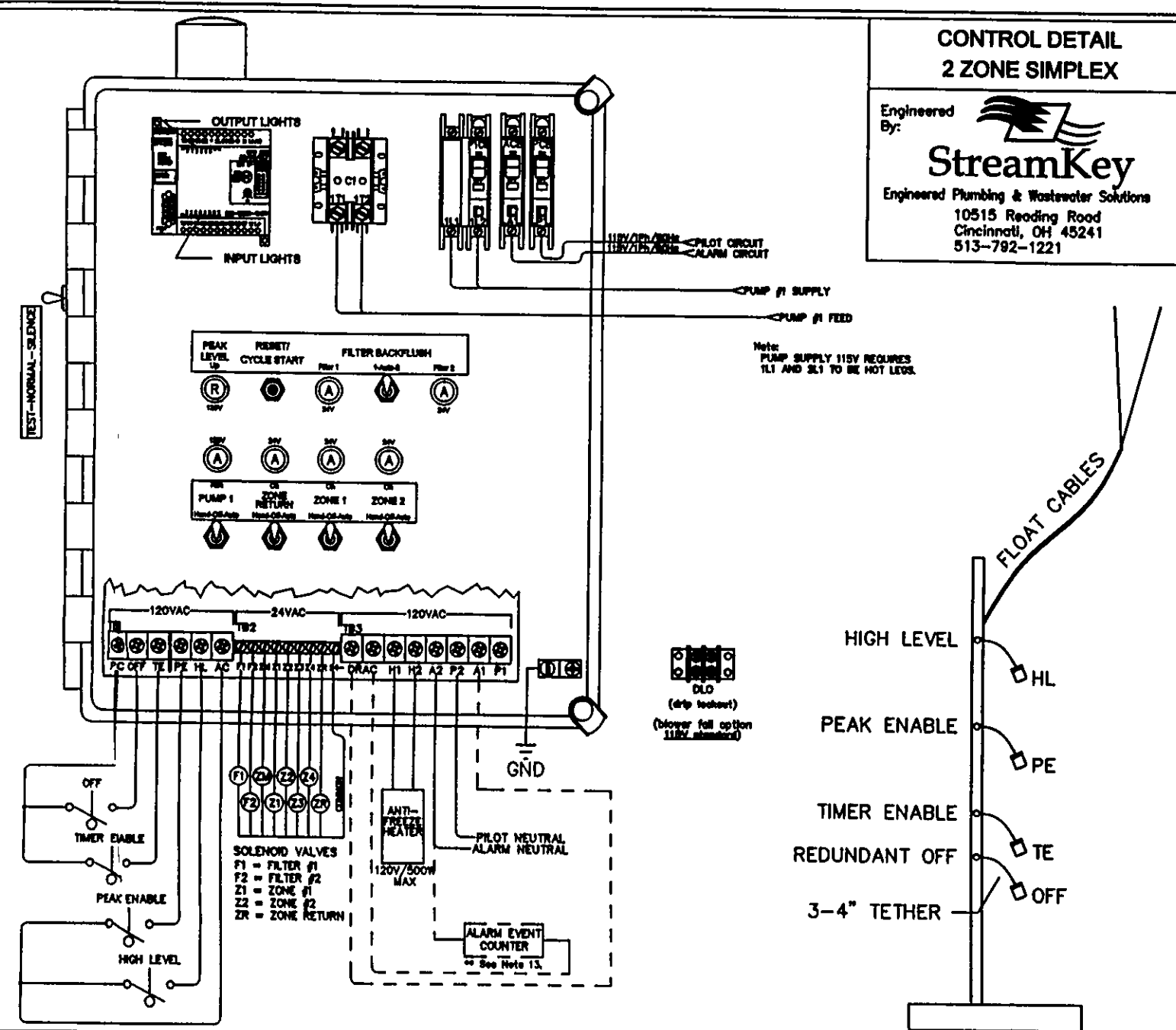
TYPICAL MANIFOLD CONNECTION
NTS



NOTE:
1. THE AIR RELEASE VALVE SHALL BE PLACED AT THE HIGHEST POINT ON THE RETURN LINE OF EACH ZONE.
2. EACH ZONE TO HAVE THE SAME VALVE BOX SETUP AND THEREAFTER CONNECTED.



DRIP MOUND CROSS SECTION SLOPED SITE
Engineered By:
StreamKey
Engineered Plumbing & Waterworks Solutions
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Cincinnati, OH 45241
513-792-1221



CONTROL DETAIL 2 ZONE SIMPLEX
Engineered By:
StreamKey
Engineered Plumbing & Waterworks Solutions
10515 Reading Road
Cincinnati, OH 45241
513-792-1221

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- AREAS FOR DISTRIBUTION FIELD AND REPLACEMENT AREAS SHALL BE STAKED AND ROPED OFF TO PREVENT ACCESS DURING ALL CONSTRUCTION ACTIVITIES ON THE SITE. NO PARKING OR MATERIAL STORAGE IS PERMITTED IN AREAS DESIGNATED FOR THE DISTRIBUTION FIELD. NO HEAVY EQUIPMENT SHALL BE OPERATED OVER THE DISTRIBUTION FIELD.
- INSTALLATION OF SUBSURFACE DRIP TUBING OR PREPARATION OF THE SOIL INFILTRATION INTERFACE FOR AT GRADE OR ELEVATED SAND FILL DRIP FIELDS SHALL NOT PROCEED WHEN THERE IS A RISK OF SMEARING OR COMPACTION.
- ANY SAND FILL USED SHALL MEET ASTM C 33 SPECIFICATIONS AND THE SPECIFICATIONS LISTED IN CHAPTER 3701-29-13 OF THE OHIO ADMINISTRATIVE CODE.
- DRIP TUBING SHALL BE INSTALLED PARALLEL TO NATURAL SURFACE CONTOURS. AN UNDISTURBED AREA OF TWENTY FIVE FEET SHALL BE PRESERVED BELOW (DOWNSLOPE OF) THE DRIP DISTRIBUTION AREA AND THE DESIGNATED REPLACEMENT AREA.
- REVISED: DRIVE GRADING & SEPTIC NOTES 6/29/07
REVISED: SHALE ALONG W.P.L. PER L.G.E. 6/26/07



POLARIS ENGINEERING & SURVEYING, INC.
34600 CHARDON ROAD - SUITE D
WILLOUGHBY HILLS, OHIO 44094
(440) 944-4433 (440) 944-3722 (Fax)
www.polaris-es.com

NCT BUILDERS LLC
P.P.N. 10-A-026-A-00-004-0
CONCORD TOWNSHIP - LAKE COUNTY - OHIO

CONTRACT No.
07082
SHEET 2 OF 2
DATE: 6/21/07
SCALE: HOR. 1"=40'
FILENAME: 26_Plan/Drain/26.dwg

Page Drive 60'

GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.

Exist. House
945.50

James K. and Diane E. Fox
10176 Page Drive
P.P.N. 08-A-026-A-00-002-0
Volume 774, Page 528

Bonnie L. Horvath
P.P.N. 10-A-026-A-00-004-0
P.P.N. 8A-026-A-00-001-0
Document No. 980057713

Matt & Brenda Loncar
10164 Page Rd.
P.P.N. 10-A-026-A-00-010-0
Document No. 2007R008947

William F. & Agnes P. McNeely, Trustee
P.P.N. 10-A-026-A-00-008-0
Document No. 980057713

DOWNSPOUTS/FOOTER DRAIN NOTE:

DOWNSPOUTS AND FOOTER DRAINS ARE TO BE DIRECTED AROUND THE SEPTIC SYSTEM BY MEANS OF PIPING, SWALES, ETC.

Erosion and Sediment Control Schedule

Ingress-Egress
A stone access drive complete with under lying geo-textile fabric (20 feet wide and 50 feet long) for ingress and egress at the site shall be installed. This drive shall be the only entrance and exit to the site.

Silt Fence
All silt fence shall be installed prior to any earthwork activities at the site in the locations shown on the site plan as well as along the front of any lot that slopes towards the street.

Temporary Seeding
Disturbed areas of the site that are to remain idle for more than twenty-one (21) days shall be properly seeded and straw mulched within seven (7) days of completion of initial grading. Temporary seeding and mulching of a thirty (30) foot strip of the entire front of the lot shall be maintained on the site once initial grading is complete.

Stabilization of critical areas within fifty (50) feet of any stream or wetland shall be complete within two (2) days of the disturbance if the site is to remain inactive for longer than fourteen (14) days.

Mulching
Straw-mulch shall be applied at a rate of 1 bale per every ten (10) feet of curb, at a width of thirty (30) feet of the entire length of the lot. Wood chips may also be used but must be spread at a minimum depth of four inches over the thirty-foot width and must be accompanied by a properly installed silt fence.

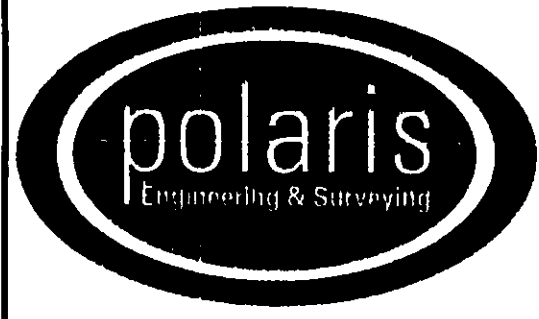
Maintenance
Erosion and sediment controls shall be inspected every seven (7) days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

Note:
All erosion and sediment control specifications, applications, and timetables are based on the descriptions and standards of The Ohio Department of Natural Resources "Rainwater and Land Development Manual" and can be found in the Lake County Erosion and Sediment Control Rules as adopted December 21, 1999.

The specified erosion and sediment control standards are the general guidelines and shall not limit the right of the county to impose, at any time, additional, more stringent requirements. Nor shall the standards limit the right of the county to impose, in writing, individual requirements.

Drip distribution area has been field
verified and protected with marking tape
Plans submitted to LCOHD and meet
design criteria
Hydraulic calculations verified and accurate

Date: 6/14/17
Name: DELL
6/14/17
6/14/17



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WILLOUGHBY HILLS, OHIO 44094
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DESIGN CERTIFICATION

THIS PLAN WAS PREPARED BY ME, AND IS CORRECT TO THE
OF MY KNOWLEDGE AND BELIEF.

NAME: Justin R. Zeng DATE: 6/12/17

"AS-BUILT" CERTIFICATION

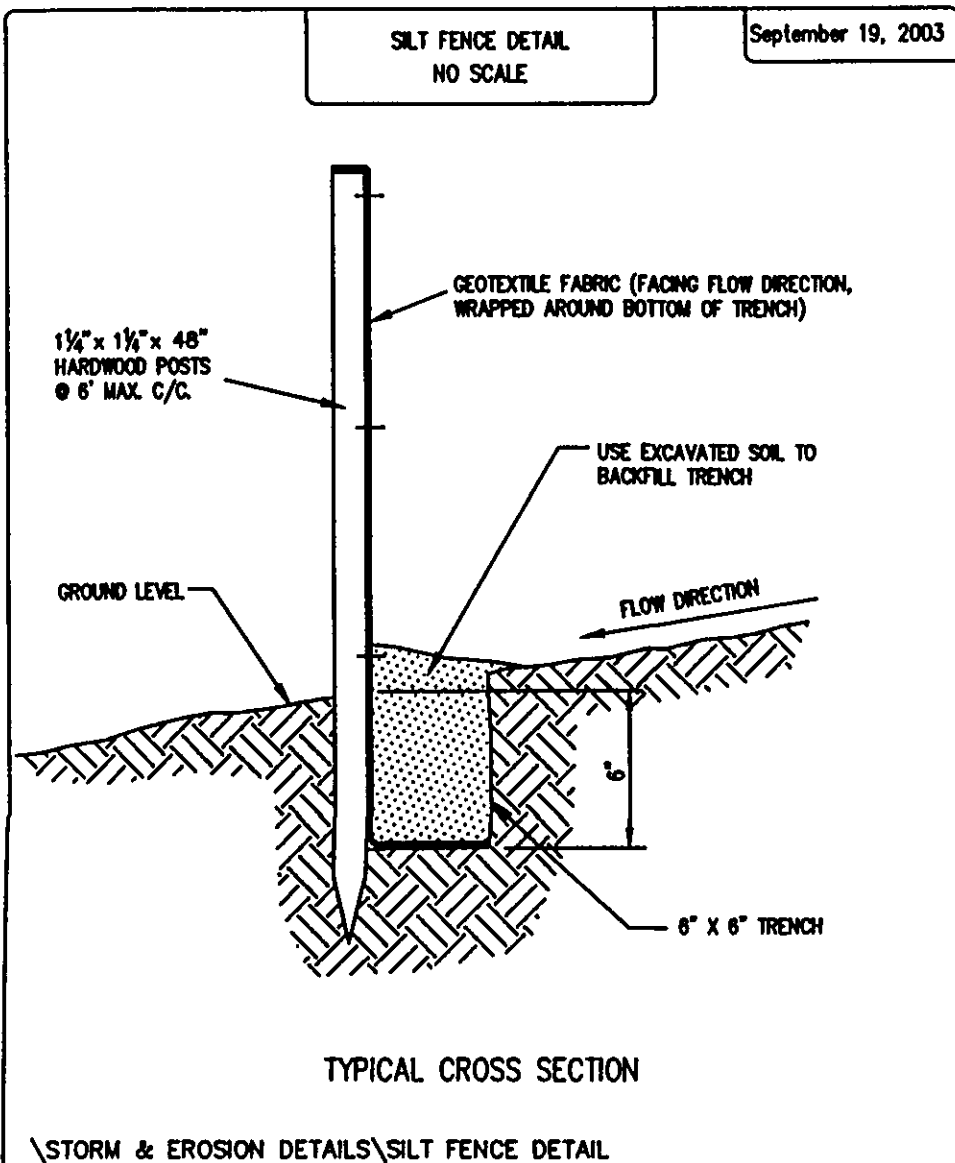
I HEREBY CERTIFY THAT THE CIRCLED INFORMATION IS EXISTING
AS OBTAINED ON THE SITE AND IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

NAME: _____ DATE: _____

NCT BUILDERS LLC
P.P.N. 10-A-026-A-00-004-0

CONCORD TOWNSHIP - LAKE COUNTY - OHIO

VOID

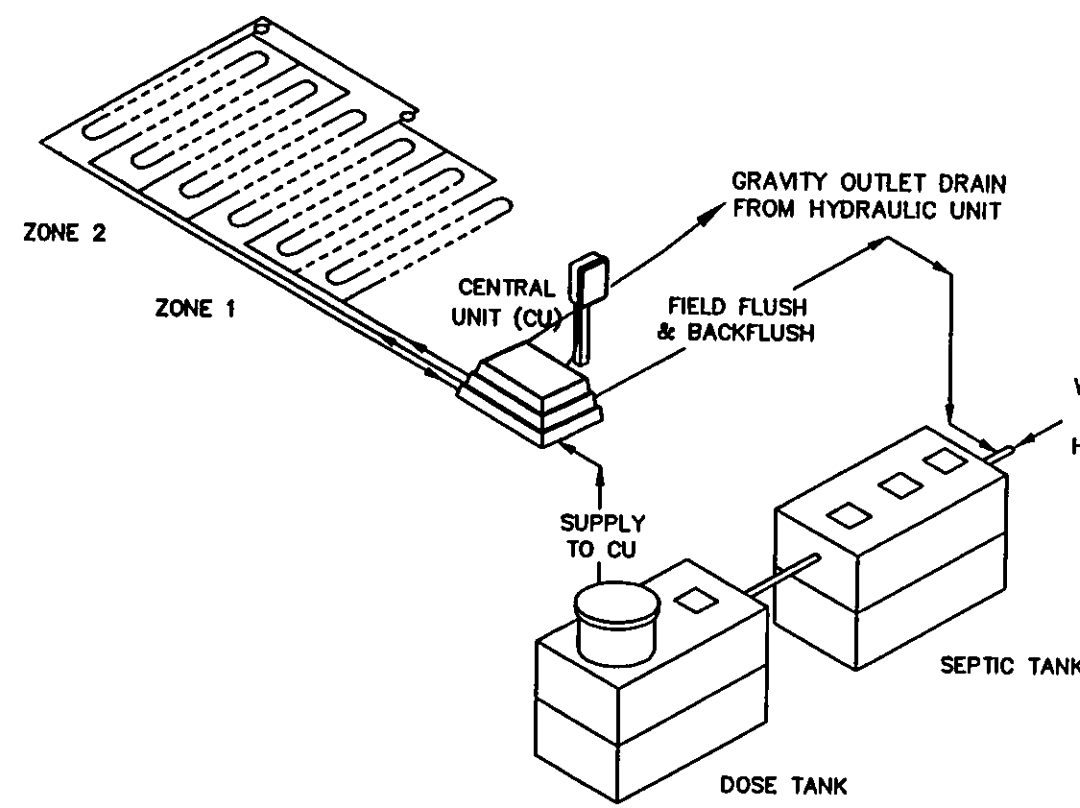


Morley Road 60'

Seeding Specifications			
	Species	Lb. / 1000sqft	Per Acre
August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Perennial Ryegrass	1	40 lb.
November 1	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	1	40 lb.
	Tall Fescue	1	40 lb.
a Spring Seeding	Perennial Ryegrass	1	40 lb.
	Tall Fescue	1	40 lb.
	Annual Ryegrass	1	40 lb.
	Wheat	1	40 lb.

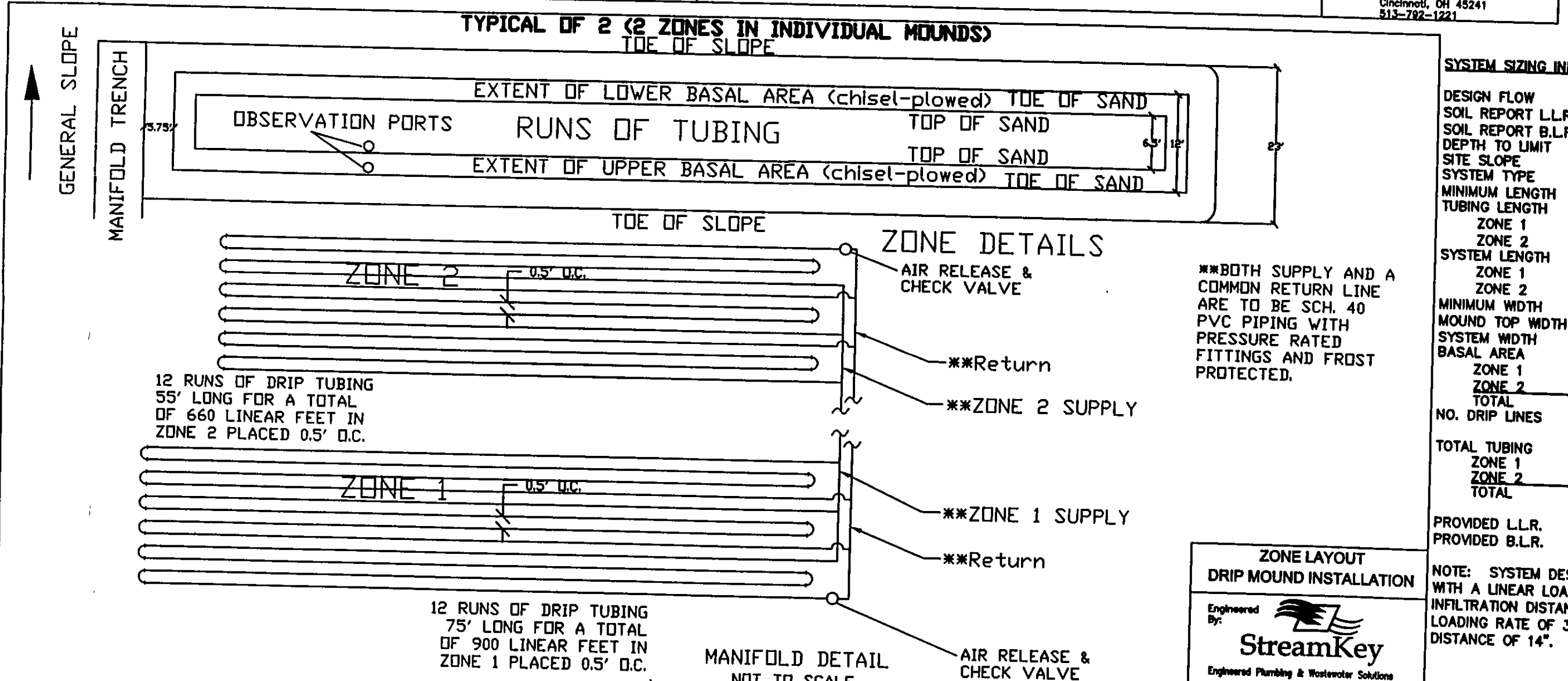
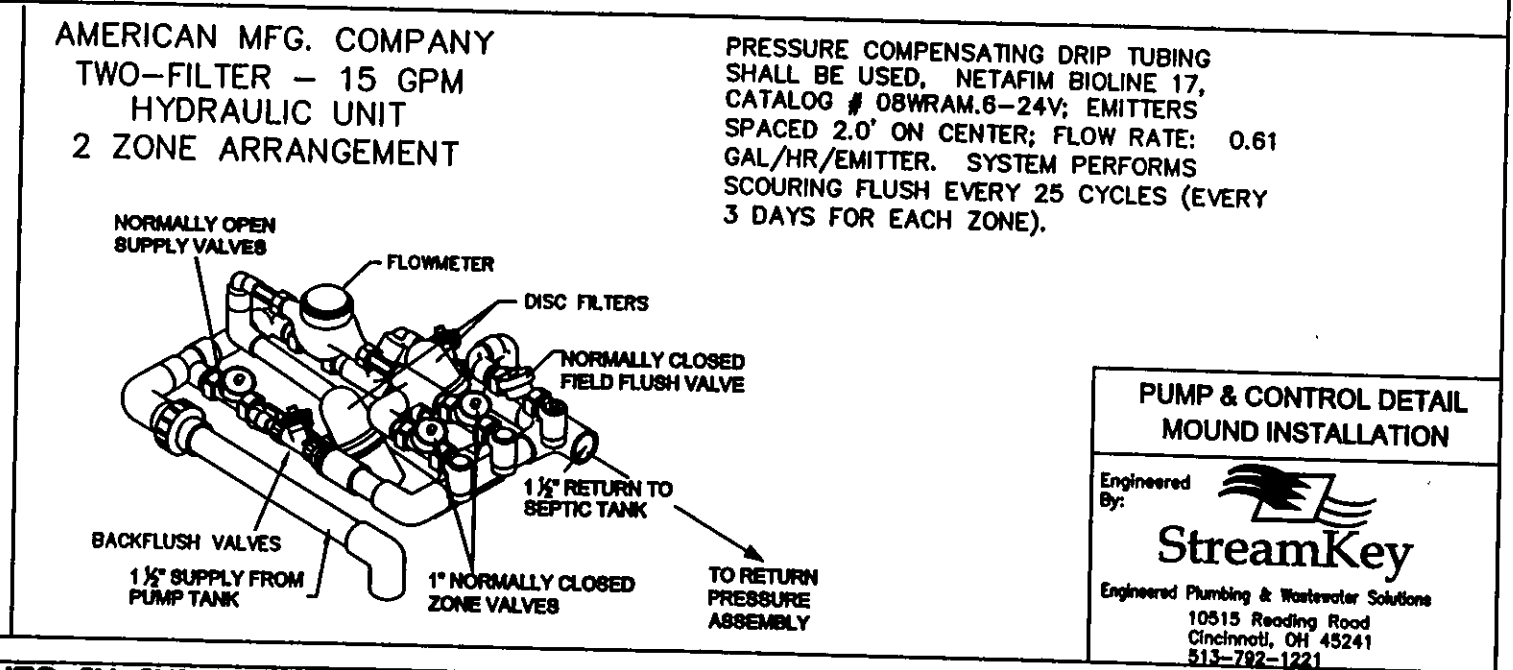
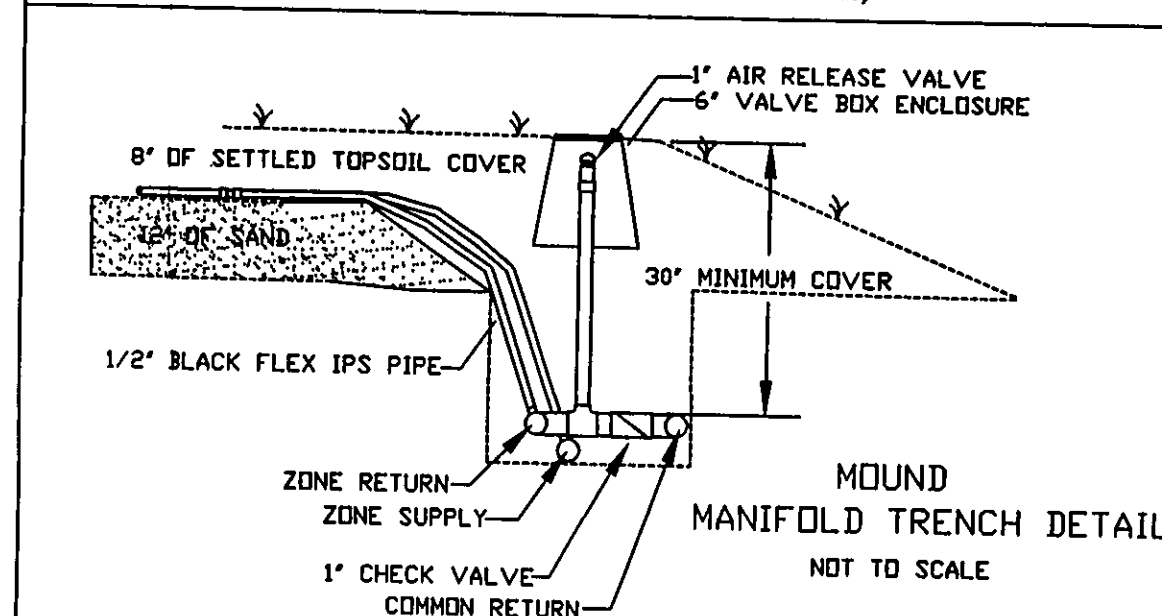
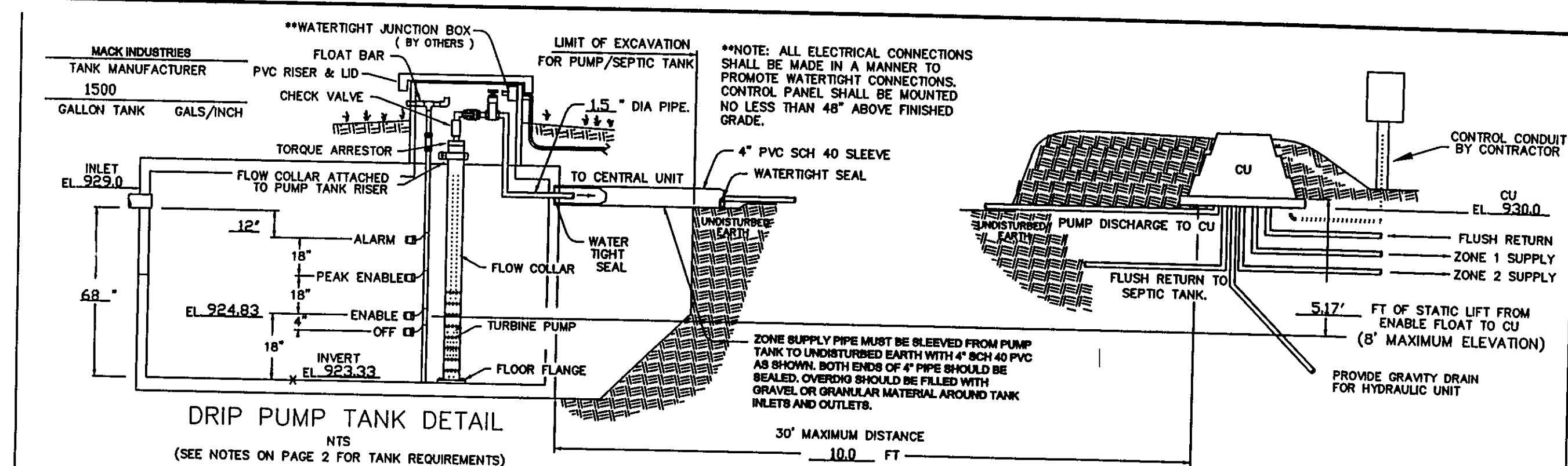
approved seed species may be substituted.

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System Schematic
(Not Intended for Construction)

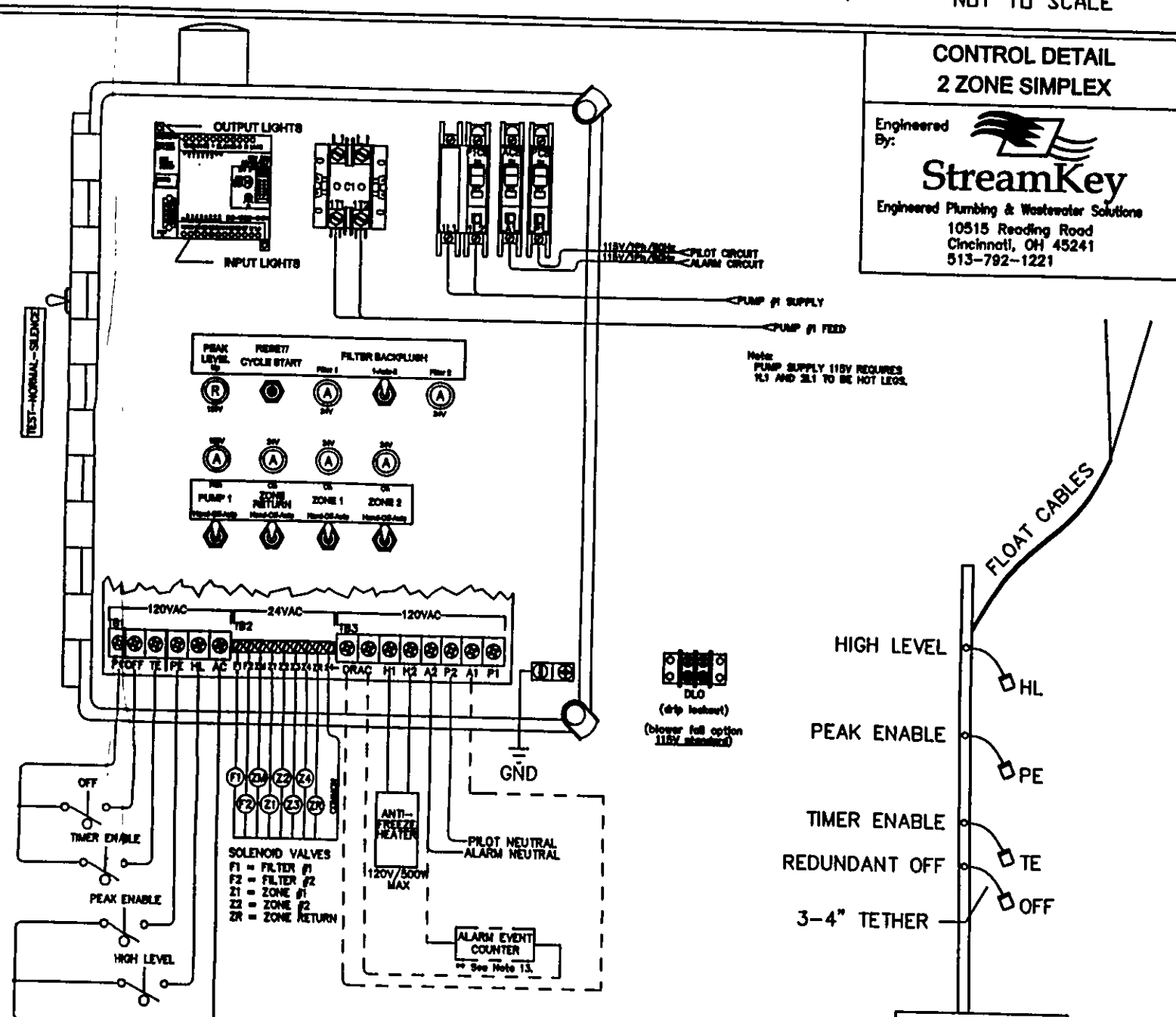
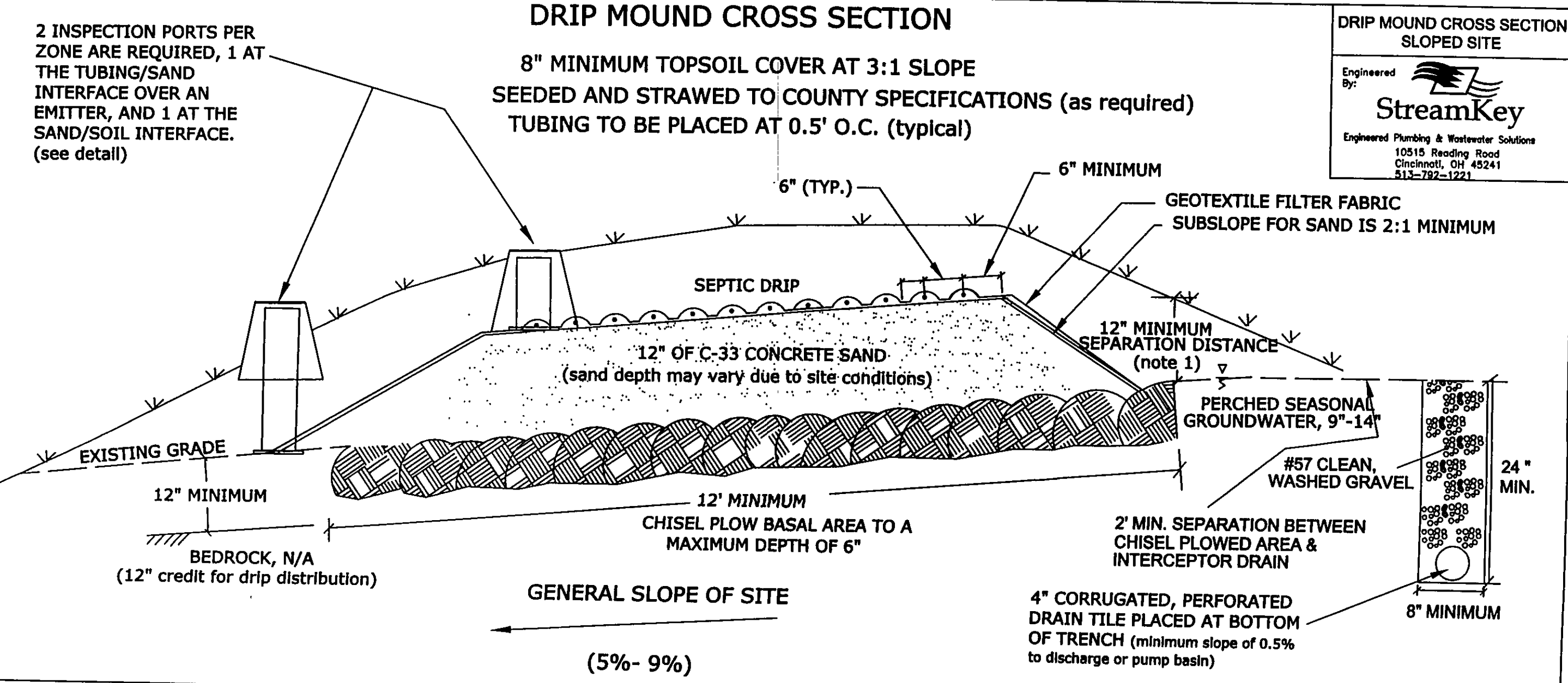
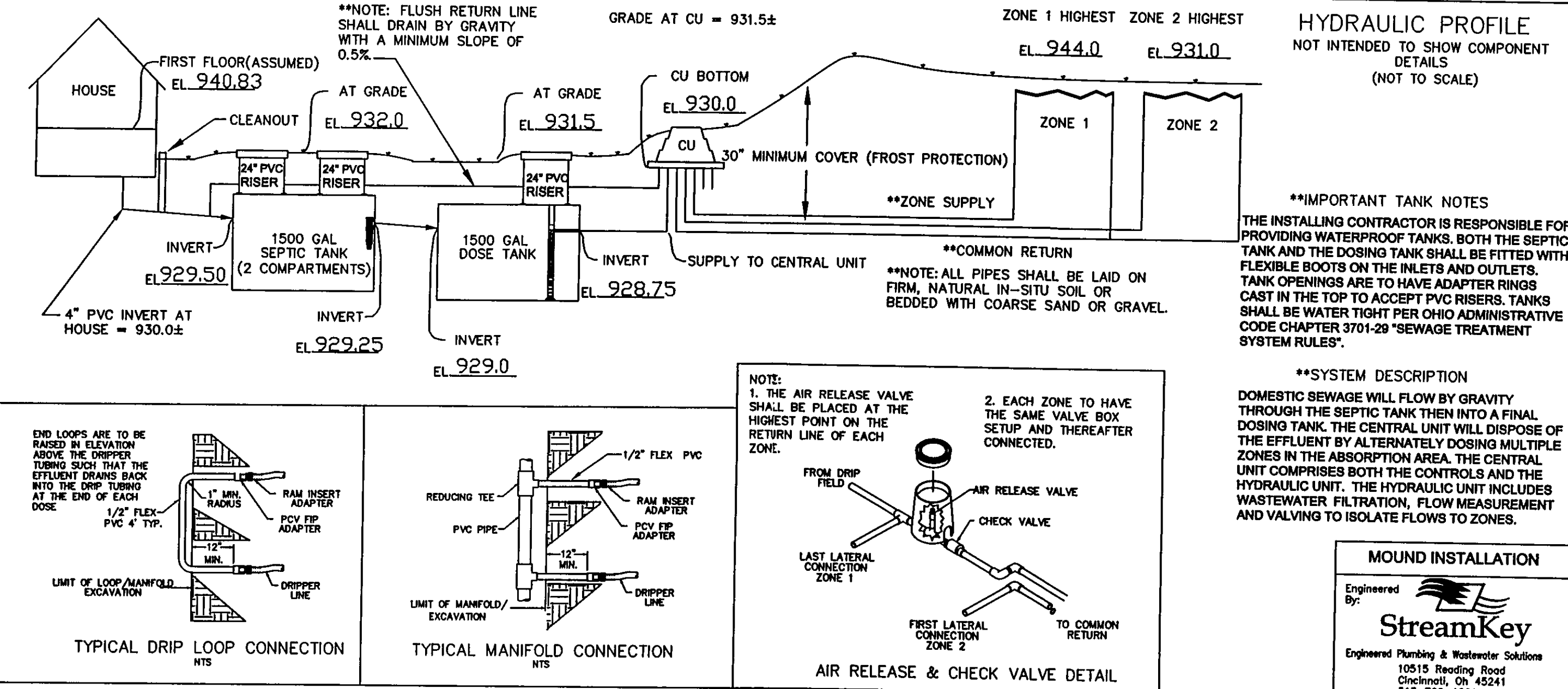
MOUND INSTALLATION
Engineered By:
StreamKey
Engineered Plumbing & Watercolor Solutions
10515 Reading Road
Cincinnati, OH 45241
513-792-1221



SYSTEM SIZING INFORMATION

DESIGN FLOW	360 GPD (3 BEDROOM)
SOIL REPORT L.L.R.	3.0 GPD/LF
SOIL REPORT B.L.R.	0.6 GPD/SF
DEPTH TO LIMIT	9-14 INCHES
SITE SLOPE	5-9%
SYSTEM TYPE	DRIP MOUND
MINIMUM LENGTH	120' TOTAL
TUBING LENGTH	Zone 1: 75'
	Zone 2: 55'
SYSTEM LENGTH	Zone 1: 75' + 5.0' END SLOPES = 80'
	Zone 2: 55' + 5.0' END SLOPES = 60'
MINIMUM MOUND TOP WIDTH	5.0'
SYSTEM WIDTH	USE 6.5'
BASAL AREA	Zone 1: 55' x 12' = 660 SF
	Zone 2: 75' x 12' = 900 SF
TOTAL	1560 SF
NO. DRIP LINES	24 LINES IN TWO ZONES (12 PER ZONE)
TOTAL TUBING	Zone 1: 900 LF
	Zone 2: 660 LF
	TOTAL: 1,560 LF
PROVIDED L.L.R.	2.77 GPD/LF
PROVIDED B.L.R.	0.23 GPD/SF

NOTE: SYSTEM DESIGN BASED ON "WORST" SOIL BORING WITH A LINEAR LOADING RATE OF 3.0 GPD/LF, AND A INFILTRATION DISTANCE OF 9". BORE #3 HAS A LINEAR LOADING RATE OF 3.5 GPD/LF AND A INFILTRATION DISTANCE OF 14".



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www.polaris-es.com

CONTRACT No.
07082

SHEET 2 OF 2

DATE: 6/28/07

SCALE: HOR. 1"=40'

FILENAME: 10-A-026-A-00-004-0