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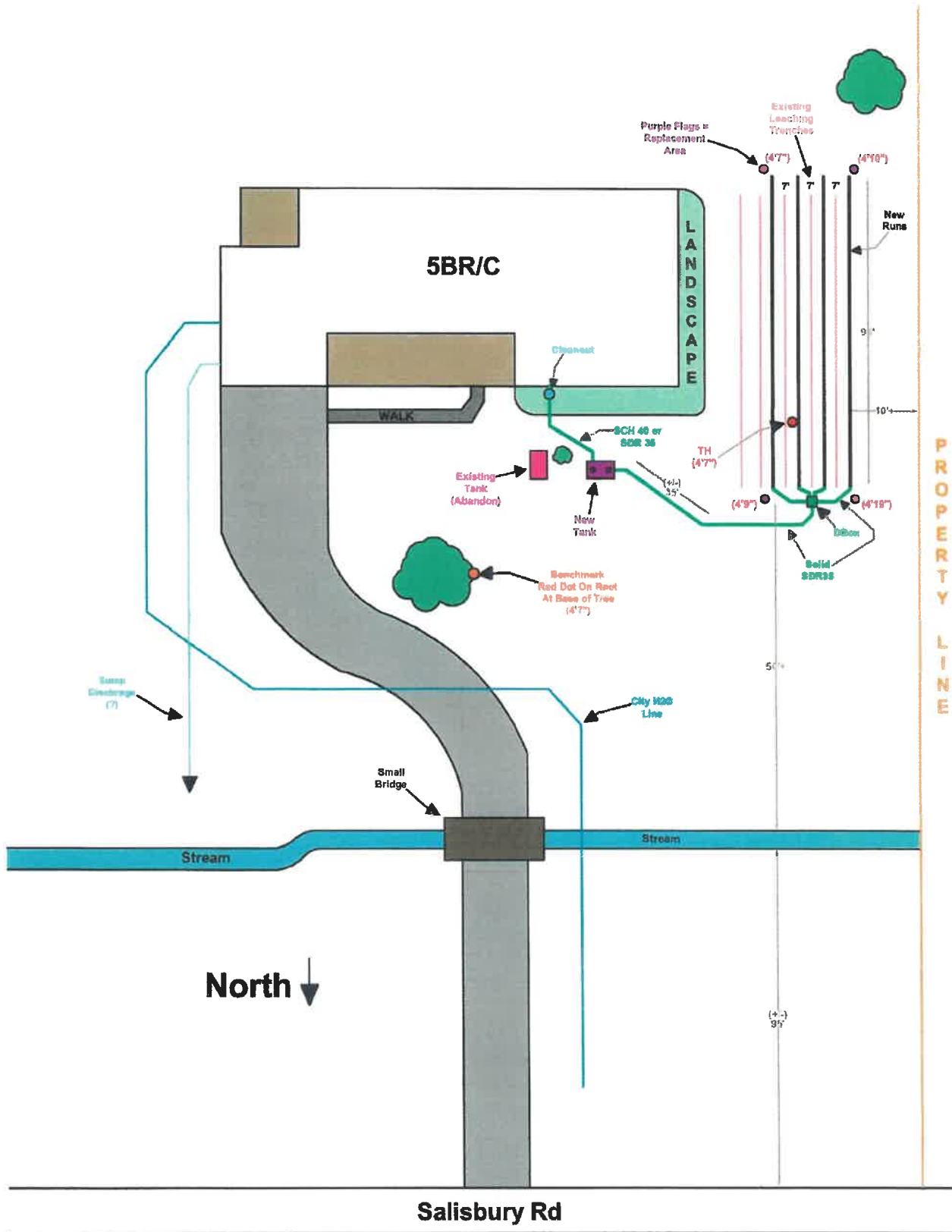
## DESIGN SPECIFICS FOR 9595 SALISBURY ROAD – 5 BR/C - REPLACEMENT (MONCLOVA TOWNSHIP – LUCAS COUNTY)

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1. STS Rules 3701-29 of the OAC shall be followed.
2. Contact OUPS (#811) prior to installing septic system.
3. LHD, installer &/or designer must discuss any questions, changes or concerns prior to/during installation of the septic system as needed.
4. Confirm that all gray water (laundry, utility sinks etc.) is being discharge into the main sewer line and that all clear water (sump, downspouts etc.) is being rerouted away from the main sewer line *as required and as needed*.
5. Install new line from the house to the new septic tank. Line must be **SDR 35 or SCH 40** and must maintain 1/8" – 1/4" per foot. Install an exterior clean-out with a slide style cover (not threaded). First 3' – 4' ONLY of sanitary line exiting the house must be bedded in leach field stone to prevent settling however the remainder of the line must be bedded in the existing in-situ soil, 310's or 411's not leach field stone.
6. Install a new state approved 2000 – gallon two compartment **septic tank** with inlet and outlet risers that are flush with grade. If the inlet baffle is not precast into the tank, install a 4" to 6" sanitary **inlet tee** (cut 6" below the flow line). Install the required 4" or 6" sanitary **outlet tee** with an 18" drop down and an effluent filter. **Existing septic tank** must be pumped and properly abandoned and proper documentation submitted to the TLCHD. **SDR 35** is required from the tank to the **distribution box**. Maintain a minimum of 1/2" of fall per 10' of run length. Bed line in firmly packed in-situ soil, 310's/411's, not leach field stone.
7. The lines exiting the distribution box will be **SDR 35** and shall be at the same elevation. Obtain a distribution box designed to handle the system design as shown. Cap with handle/elbow is required to allow one (1) 96' run of the system to "rest" at all times.
8. System design based on a standard stone/pipe leach leaching trench. Trench width will be 36". [**NOTE**: Due to site limitations, the **new leaching trenches** will be installed between the **existing trenches** as shown].
9. **Bench Mark** is the *surface root of the large tree marked with a red dot and arrow*. **Area of the test hole** is level with the bench mark. *No fill will be required prior to installation of the leaching trenches*. The leaching trenches will be installed on the average of 21" into the existing in-situ soil (see trench detail for specifics). A VSD of 12" from the perched seasonal water table will be maintained along the entire length of contour therefore the HLLR of 5.0 was utilized for this design proposal.
10. **Bottom of leaching trench** will be 21" below the benchmark; **Top of the pipe** will be 13" below the benchmark and the **Final grade** over the top of the entire leaching field area will average level with the benchmark.
11. Install the standard stone/pipe leach field as follows: **Trench length**: 96'; **Total number of runs**: 5; **Average Initial/final trench depth**: 21"; **Total stone depth**: 10" (**NOTE**: *If possible, depending on the new tank placement and elevation, the leach field pipe can be raised and up to allow for a total stone depth of 12": 6" of stone below and 2" above the 4" pipe*); Use stone that is clean and sized between 3/4" to 1 1/2"; **Distance between leaching trenches**: 7' on center
12. Maintain at least 10' from the house, property lines, easements/right of ways, all hardscapes (sidewalks, driveway patios etc.); 8' from the **city water line** and any proposed or existing drain/**sump lines** and 50' from the **perennial ditch/stream** (3701-29-06 (3) (a) and any existing wells.
13. Plant grass ASAP after system is backfilled.

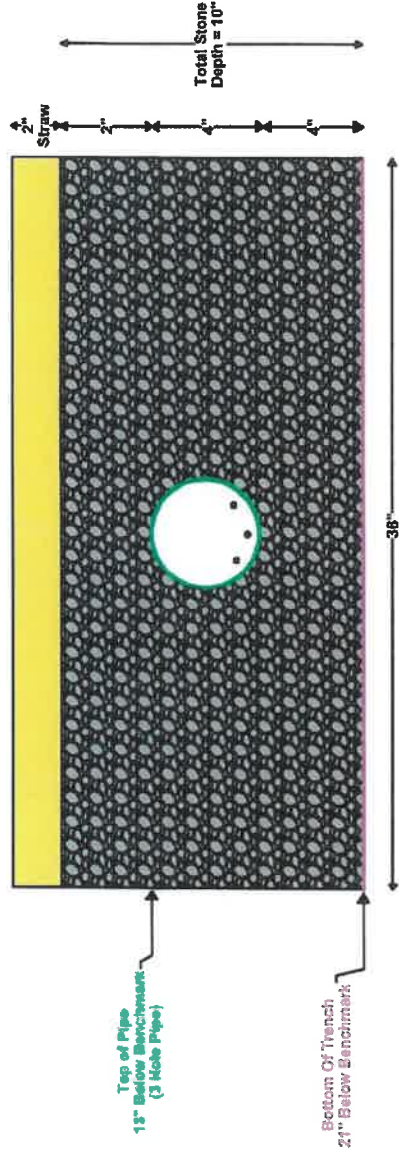
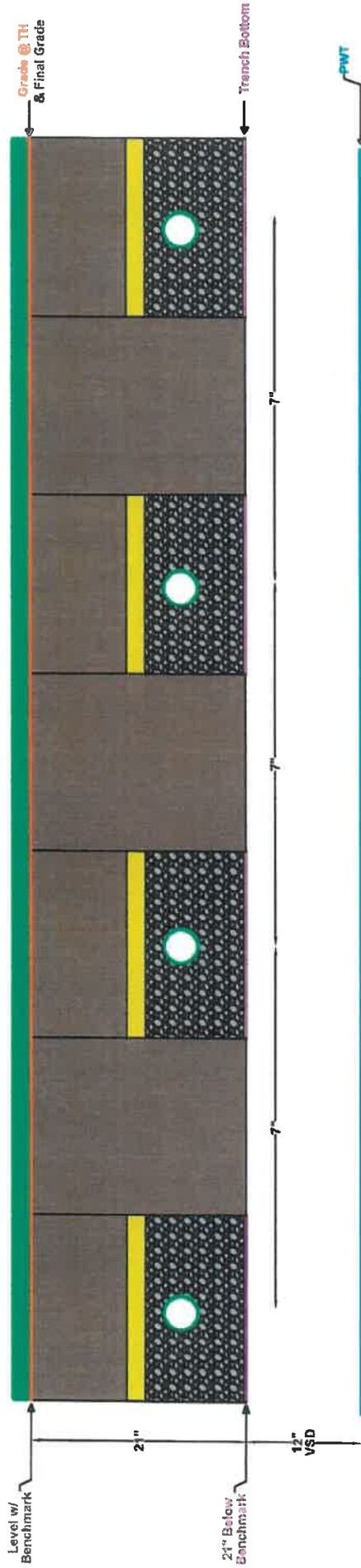
# Septic Design Proposal

## 9595 Salisbury Rd (Monclova Twp)



# Leach Field - Trench Detail

## 9595 Salisbury Rd (Monclova Twp)



***Benchmark for 9595 Salisbury Road – Monclova Township – Lucas County***



TOWNSHIP: Mone. Iowa LOT NO. W 50m of N 20 00 of 1  
the E 1/2 of S 5 1/4  
of Sec 10, T 70 N, R 9 E  
 VILLAGE: \_\_\_\_\_ SECTION: \_\_\_\_\_

SUB-DIVISION: \_\_\_\_\_  
 OWNER: Wayne Weatherhead ADDRESS: 9595 Salisbury

BUSINESS: \_\_\_\_\_  
 WATER SUPPLY: Well  City

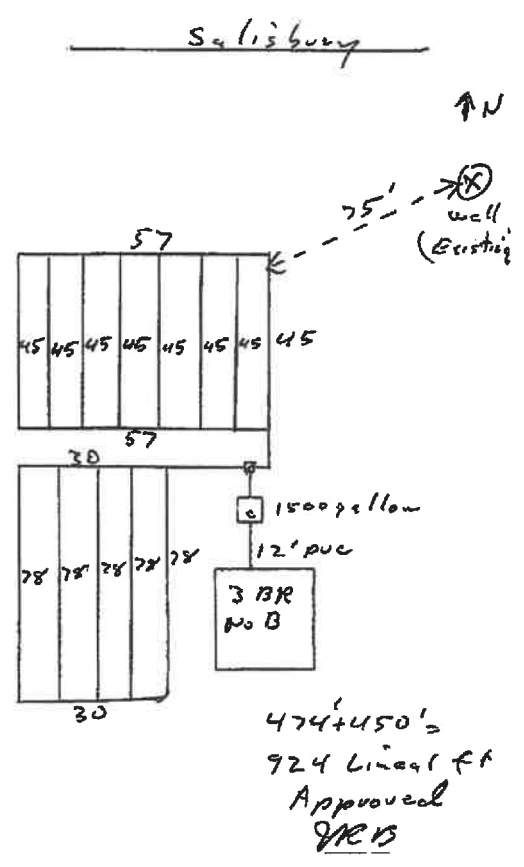
SEWAGE DISPOSAL UNIT: Septic Tank Size: 1500 gallon

SECONDARY TREATMENT: Tile Disposal Field: 474' x 450' =  
 Sub-Surface Filter: 924 Linear ft

Other: \_\_\_\_\_

REMARKS:  
 Contractor: Owner  
 Size of Lot: 16.5 x 396  
 Permit No.: A 154  
 Date of Inspection: 11/3/77 JRS

38-31781

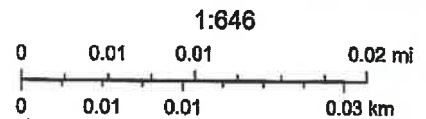


# Soil Evaluation



May 20, 2026

**Soil Evaluation for Septic System**  
**9595 Salisbury Road**  
**Monclova, Ohio 43542**  
**1 inch = 54 feet**  
**● = soil test hole**



Lucas County Auditor's Office, GIS Dept., Lucas County Auditor's Office, GIS Department, Lucas County Auditor's Office, GIS Dept.; US Census Bureau, Lucas County Auditor's Office, GIS Department; Lucas County Engineer's Tax Map Department, Lucas County EMA, Lucas County Auditor's Office

# Site and Soil Evaluation for Sewage Treatment and Dispersal



County: Lucas  
 Township / Sec.: Moravia  
 Property Address/Location: 995 Salisbury Pl.  
Moravia, OH 43842  
 Applicant Name: Beyly  
 Address: (same)  
 Phone #: \_\_\_\_\_  
 Lot #: \_\_\_\_\_  
 Test Hole #: 1  
 Latitude/longitude: 41.58210; -83.77105  
 Method: Pit  Auger \_\_\_\_\_ Probe \_\_\_\_\_

Land Use / Vegetation: res/roads  
 Landform: late plain  
 Position on Landform: flat  
 Percent Slope: 2-3  
 Shape of Slope: concave, slightly  
 Date: 5/21/26  
 Evaluator: Richard Scharf  
 9455 Neumann Cir.  
 Ypsilanti, MI 48197  
 Certification Stamp or Certification #: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Phone #: (734) 255-4546

Soil Profile	Estimating Soil Saturation				Estimating Soil Permeability						Remarks / Risk Factors:																			
	Horizon	Depth (inches)	Munsell Color (hue, value, chroma)		Class	Texture		Structure		Consistence		Other Soil Features																		
			Matrix Color	Concentrations		Depletions	Approx. % Clay	Approx. % Fragments	Grade				Size	Type (shape)																
Ap	0-10	10YR3/3	-	-	S	0	0	0/sg	-	-	good																			
Bw <sub>1</sub>	10-33	10YR5/4	10YR5/6	-	S	0	0	↓	-	-	↓																			
Bw <sub>2</sub>	33-64	10YR5/3	10YR5/4 10YR5/6	-	S	0	0	↓	-	-	↓	Soil rooted @ 35" hole collapsed back to 37"																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Limiting Conditions</th> <th>Depth to (in.)</th> <th>Descriptive Notes</th> </tr> </thead> <tbody> <tr> <td>Perched Seasonal Water Table</td> <td>33</td> <td></td> </tr> <tr> <td>Apparent Water Table</td> <td>N.A.</td> <td></td> </tr> <tr> <td>Highly Permeable Material</td> <td>N.A.</td> <td></td> </tr> <tr> <td>Bedrock</td> <td>764</td> <td></td> </tr> <tr> <td>Restrictive Layer</td> <td>769</td> <td></td> </tr> </tbody> </table>													Limiting Conditions	Depth to (in.)	Descriptive Notes	Perched Seasonal Water Table	33		Apparent Water Table	N.A.		Highly Permeable Material	N.A.		Bedrock	764		Restrictive Layer	769	
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Note: The evaluation should include a complete site plan or site drawing

# Leaching Trench Design Calculations For Replacement Leach Field

Information from soil evaluation	
Hydraulic Linear Loading Rate (gpd/ft)	5
Soil Infiltration Loading Rate (gpd/ft)	0.8
Number of Bedrooms	5
Depth to Limiting Condition at TH	28 nose
Width of Trenches (inches)	36

Property Information	
Owner	BAYLY
Address	9595 SAUSBURY ROAD
Township	MONKLOVA (LUCAS COUNTY)
New	Replacement: <input checked="" type="checkbox"/> X

Overview of System Requirements	
Number of Trenches	4
Length of Trenches	120
Width of Trenches (inches)	3
Total Linear Feet	480
Width Between Trenches (on center)	7 foot
Drainage	TBD

Daily Design Flow (120 gpd) X (Number of Bedrooms)	=	600 gpd
120 gpd	=	5 Bedrooms

Minimum Design Flow / Soil Infiltration Loading Rate	=	750 ft <sup>2</sup>
600 / 0.8	=	750 ft <sup>2</sup>

Daily Design Flow / Hydraulic Linear Loading Rate	=	120 ft
600 / 5	=	120 ft

Minimum Absorption Area X 0.25	=	187.5 ft <sup>2</sup>
750 X 0.25	=	187.5 ft <sup>2</sup>

Total Length of Leach Lines / Width of the Trench	=	312.5 ft
937.5 / 3	=	312.5 ft

Minimum Absorption Area + 25% Resting	=	987.5 ft <sup>2</sup>
750 + 187.5	=	987.5 ft <sup>2</sup>

Number of Trenches / Trench Length	=	2,604.16667
3 / 120	=	2,604.16667

Trench Length X Trench Width = Absorption Area Per Trench	=	360 ft <sup>2</sup>
120 X 3	=	360 ft <sup>2</sup>
Min. Absorption Area / Absorption Area Per Trench	=	2,083.33333 Trenches
750 / 360	=	2,083.33333 Trenches
Add 25% absorption area for resting / absorption area per trench	=	3 Trenches in use at all times
187.5 / 360	=	0.52083333
	=	1 Trench(es) to rest at all times

Minimum Absorption Area Width / Min. Absorption Area Length	=	7.8125 ft
937.5 / 120	=	7.8125 ft

<b>** CHAMBERS ONLY ** with * 25% Reduction*</b>	
Number of Trenches to Maintain Total Absorption Area	
Minimum Absorption Area * 25% = Reduction for Chamber System	750 * 0.25 = 187.5 ft <sup>2</sup>
25% Reduction for Chamber System	
Minimum Absorption Area - 25% Reduction = New Min. Absorption Area for Chamber System	750 - 187.5 = 562.5 ft <sup>2</sup>
Additional Area Required for 25% Resting	
Minimum Absorption Area X 0.25	562.5 X 0.25 = 140.625 ft <sup>2</sup>
Minimum Absorption Area + 25% Resting	562.5 + 140.625 = 703.125 ft <sup>2</sup>
NEW Min. Absorption Area / Absorption Area Per Trench	703.125 / 360 = 1.953125 Trenches
Add 25% absorption area for resting / absorption area per trench	140.625 / 360 = 0.390625 Trench(es) to rest at all times

REPLACEMENT System Overview	
Number of Trenches	4
Length of Trenches	96
Width of Trenches (inches)	36
Total Linear Feet	384
Width Between Trenches (on center)	7 foot
Drainage	existing

<b>If Replacement System:</b>	
Up to 20% can be cut in the length of the leach lines, BUT...the Total surface area must be maintained.	
Total Surface Area =	937.5 ft <sup>2</sup>
Original Calculated Length =	120 ft.
20% of Original Calculated Length =	24 ft.
Reduced Length =	96 ft.
Trench Length X Trench Width = Absorption Area Per Trench	96 X 3 = 288 ft <sup>2</sup>
Min. Required Absorption Area / Absorption Area Per Trench = Number of trenches in use at all times	750 / 288 = 2,604.16667 Trenches
	3 Trenches in use at all times
Add 25% absorption area for resting / absorption area per trench = Number of trenches to rest	187.5 / 288 = 0.65104167
	1 Trench(es) to rest at all times

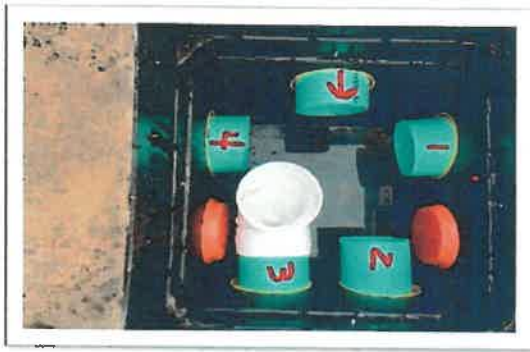
<b>** CHAMBERS ONLY** (Replacement)</b>	
[Up to 20% can be cut in the length of the leach lines, BUT...the Total surface area must be maintained]	
Chambers Total Surface Area =	562.5 ft <sup>2</sup>
Original Calculated Length =	120 ft.
20% of Original Calculated Length =	24 ft.
Reduced Length =	96 ft.
Trench Length X Trench Width = Absorption Area Per Trench	96 X 3 = 288 ft <sup>2</sup>
Min. Required Absorption Area / Absorption Area Per Trench = Number of trenches in use at all times	562.5 / 288 = 1.953125 Trenches
	2 Trenches in use at all times
Add 25% absorption area for resting / absorption area per trench = Number of trenches to rest	140.625 / 288 = 0.48828125
	1 Trench(es) to rest at all times



**4" to 6" sanitary inlet tee**



**Poly Lock Distribution Box (Recommended)**



**Distribution Box with "Elbow" Style Divertor**



**Distribution Box with "Cap with Handle"**



**4" & 6" (Recommended) Effluent Outlet Filters**