SEPTIC SYSTEM NOTES:
THE SEPTIC SYSTEM SOIL ABSORPTION AREA SHALL BE STAKED OUT AND ROPED OFF OR FENCED OFF PRIOR TO START OF CONSTRUCTION. NO HEAVY EQUIPMENT SHALL BE OPERATED IN THESE AREAS, NO PARKING OR MATERIAL STORAGE SHALL OCCUR IN THESE AREAS. THESE AREAS SHALL REMAIN UNDISTURBED.

THE SEPTIC SYSTEM SOIL ABSORPTION AREA SHALL BE FREE OF ANY SITE DISTURBANCE, IF ANY DISTURBANCE OR DAMAGE HAS OCCURRED, INSTALLATION SHALL NOT PROCEED AND THE REGISTERED INSTALLER SHALL CONTACT THE OWNER AND THE BOARD OF HEALTH.

PRIOR TO EXCAVATION THE REGISTER INSTALLER SHALL CHECK ALL ELEVATIONS IN THE LAYOUT PLAN RELATIVE TO THE ESTABLISHED BENCHMARK INCLUDING THE SURFACE CONTOUR AND PROPOSED BOTTOM ELEVATION OF EACH TRENCH AND THE FLOW LINE ELEVATION OF THE STS COMPONENTS TO ASSURE PROPER FLOW THROUGH THE

LEACHING TRENCH MATERIAL SHALL BE PLACED IN A MANNER THAT PREVENTS COMPACTION OF THE INFILTRATIVE SURFACE. OPEN TRENCHES SHALL BE AVOIDED FOR ANY LENGTH OF TIME TO PREVENT IMPACTS FROM SEDIMENTS IN

SUITABLE BACK FILL AND COVER MATERIAL SHALL NOT BE COMPACTED AND SHALL ALLOW FOR SETTLING. THE COMPLETE STS AREA SHALL BE PROTECTED FROM EROSION THROUGH SURFACE WATER DIVERSION AND PROVISION OF SUITABLE VEGETATIVE COVER, MULCHING, OR OTHER SPECIFIED MEANS OF PROTECTION.

SOIL MOISTURE CONDITIONS SHALL BE EVALUATED AT THE TIME OF INSTALLATION, AND THE EXCAVATION OR PREPARATION OF THE SOIL INFILTRATION INTERFACE, SUCH AS A TRENCH OR BASAL AREA, SHALL NOT PROCEED WHEN THERE IS A RISK OF SMEARING OR COMPACTION AS EVIDENCED BY A DEFORMABILITY TEST, COMMONLY REFERRED TO AS RIBBONING, OR OTHER MEANS ESTABLISHED BY THE BOARD OF HEALTH.

A BUILDING SEWER SHALL BE WATERTIGHT, HAVE A MINIMUM DIAMETER OF FOUR INCHES AND BE CONSTRUCTED OF DURABLE MATERIAL CONFORMING TO ASTM D 2661 FOR ABS PLASTIC PIPE AND ASTM D 2665 FOR PVC PLASTIC PIPE (TYPE DWV) OR EQUIVALENT. PIPE, FITTINGS AND JOINING MATERIALS SHALL BE CHEMICALLY AND PHYSICALLY COMPÀTIBLE.

CLEANOUTS SHALL BE REQUIRED IN A BUILDING SEWER AT ANY TURN IN THE PIPE GREATER THAN FORTY-FIVE DEGREES AND AT THE POINT A BUILDING SEWER PIPE EXCEEDS ONE HUNDRED FEET AND AT EVERY ONE HUNDRED FEET INTERVAL THEREAFTER.

BASELINE RECORDS AND ANY SOIL ABSORPTION COMPONENT OPERATION AND MAINTENANCE INSTRUCTIONS SHALL BE PROVIDED BY THE INSTALLER TO BOTH THE OWNER AND THE BOARD OF HEALTH AS A CONDITION OF INSTALLATION

CASINGS SHALL BE PROVIDED IN AREAS WHERE A BUILDING SEWER MAY BE SUBJECT TO LOADS WHICH MAY CAUSE

THE STS INSTALLER IS REQUIRED TO CONSULT WITH THE DESIGNER REGARDING ANY INTENDED CHANGES TO THE PLAN.

THE OWNER SHALL BE REQUIRED TO HIRE AN APPROVED SEPATAGE HAULER TO PUMP THE SEPTIC TANK AS REQUIRED BASED UPON FLOWS, SOLID BUILD UP, ETC.

THE OWNER SHALL BE RESPONSIBLE FOR ALL OPERATION AND MAINTENANCE (O&M) REQUIRED FOR THE SEPTIC

ALL O&M SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS FOR THE PARTICULAR SYSTEM COMPONENT.

Erosion and Sediment Control Schedule

DAMAGE.

A stone access drive complete with under lying geo-textile fabric (20 feet wide and 50 feet long) for ingress and egress

the site shall be installed. This drive shall be the only entrance and exit to the site.

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.

Disturbed areas of the site that are to remain idle for more

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

initial grading is complete.

REV. No

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

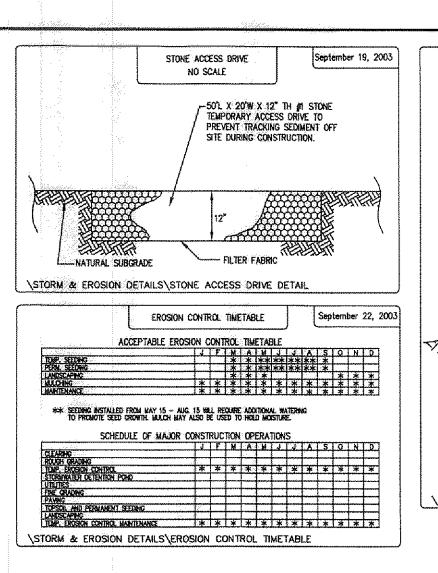
width and must be accompanied by a properly installed silt

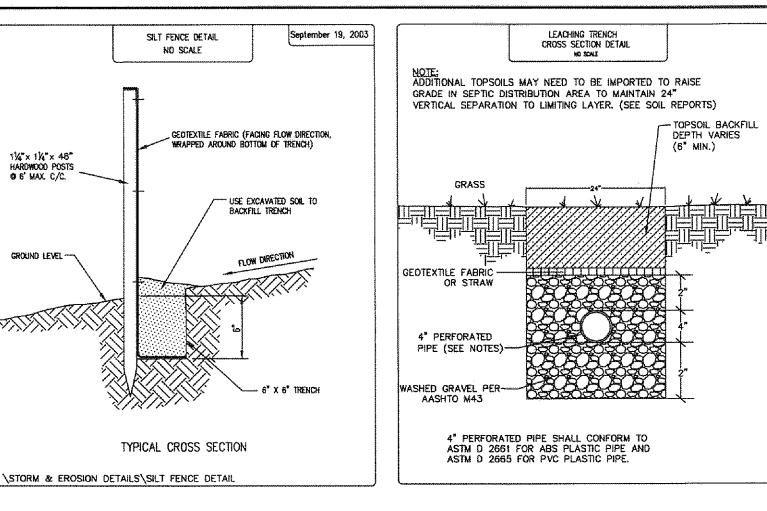
Maintenance Erosion and sediment controls shall be inspected every seven

days or within 24 hours of a 0.5" or greater rainfall event. Necessary repairs shall be made at this time.

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\*.

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





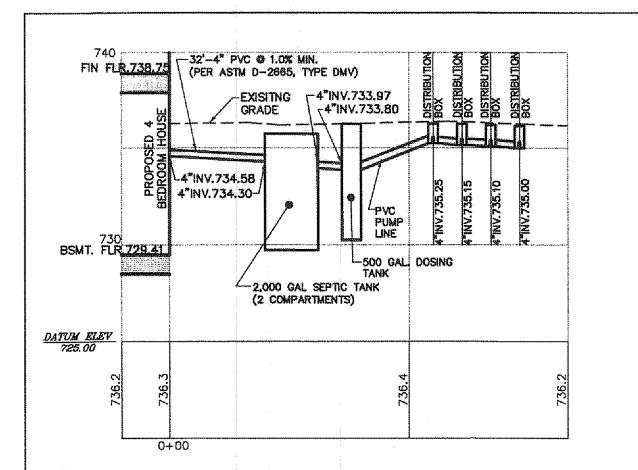
Seed Mix	lb./cc.	lb. / 1000sqft	Notes:
	Gener	al Use	
Creeping Red Feecue	20-40	1/2-1 1/4-1/2 1/4-1/2	
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	10-20	1/4-1/2	
Tall Fescue	40	1	
Owarf Fescue	40	1	
	Steep	Banke or Cut Slopes	
Tall Fescue	40	1	
Crown Vetch	10	1/4	Do not seed later than August
Toll Feacue	20	1/2	
Flat Pea	20	1/2	Do not seed later than August
Tall Fescue	20	1/2	-
	Road	Ditches and Swoles	
Tall Fescue	40	1	
Dworf Fescue	90	2 1/4	7
Kentucky Bluegrass	5		
	Lawni		
Kentucky Bluegrass	80	1 1/2	
Perennial Ryegrass	60	1 1/2	
Kentucky Bluegross	60	1 1/2	For Shoded areas.
Creeping Red Feecus	80	1 1/2	

Straw mulch shall be unrotted small—grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soll surface is covered. For uniform distribution of hand—spread mulch, divide area into approximately ,000 sq. ft. sections and spread two 45-lb. bales of straw in each section.

Seeding Dates	Species	Lb. / 1000aqft	Per Acre
March 1 to August 15	Oats Tall Fescus Annual Ryegrass	3 1	4 bushel 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 ×	40 lb. 40 lb. 40 lb.
August 16 to November 1	Rye Toll Fescue Annual Ryegrass	1 1 1	2 bushei 40 lb. 40 lb.
	Wheat Tall Fescue Annual Ryegrass	<b>1 1 1</b>	40 lb. 40 lb. 40 lb.
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1	40 lb. 40 lb. 40 lb.

Note: other approved seed species may be substituted.

## HYDRAULIC PROFILE



DUSTIN

KEENEY

E-65515

BY CH'K'

DATE

DATE: 03/23/10

SCALE: HOR. 1"= N/A

FOLDER: Site Plans

FILENAME: Sitepian

DRAWN: \_\_\_\_\_JCK\_

VERT. 1"= N/A

02-Details

## Sublot 38 Elm Street

CITY OF KIRTLAND - LAKE COUNTY - OHIO



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

4" INLET PIPE

SCH40 PVC DISCHARGE COUPLING

. REINFORCED PRECAST CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF

1. REINFORCED PRECAST CONCRETE TO HAVE A COMPRESSIVE STRENGTH OF 5000 PSI 0 28 DAYS.
2. PRECAST CONCRETE TANK SHALL MEET OR EXCEED SPECIFICATIONS AS SET BY O.A.C. RULE 3701-293-11.
3. CONCRETE JOINT SEALANT CONFORMS TO ASTM C-990.
4. INLET AND DISCHARGE PIPE SEALS CONFORM TO ASTM C-923.
5. LABEL TOP OF TANK AS FOLLOWS:
MACK INDUSTRIES LOGO
500 GAL TANK DOSING CAPACITY
DATE OF MANUFACTURE
HAVINGH BURDAL DESCRIPTOR.

THIS DRAWING IS THE PROPERTY OF MACK INDUSTRIES, INC., AND IT OR THE TECHNOLOGY CONTAINED HEREIN MAY NOT BE REPRODUCED NOR USED EXCEPT AS ORIGINALLY INTENDED WITHOUT THE EXPRESSED CONSENT OF MACK INDUSTRIES, INC.

\*\*\* DOSING PUMP SHALL BE BARNES SERIES SP 33 (OR APPROVED EQUAL)

<u>PLAN VIEW</u>

MAXIMUM BURIAL DEPTH OF 2'-0"

(INSTALLER TO CONNECT AT THIS COUPLING)

(BY CONTRACTOR)

16" DIA PLASTIC RISER —

CONCRETE SPREADER

CONSTRUCTION JOINT .

(SEALED WATERTIGHT)

BAR (CENTERED)

PIPE SEAL -PER ASTM C-923

NOTES:

PUMP\_INFO

20" DIA. PLASTIC RISER -

2" SCH40 PVC UNION -

CHECK VALVE -

SECTION VIEW

RESIDENTIAL DOSING TANK

DRAWN BY: DWH | SCALE: 3/8"=1'-0" | DRAWING NO .:

DATE: 3-10-07 REV: 2) 6/26/07 CJ RESDOSING

REV: 1.) O.D.H. 2007 COMPLIANCE.O.A.C. RULE 3701-29-11

MACK INDUSTRIES, INC.

PUMP FLOAT (TYP.) -

SUBMERSIBLE DOSING PUMP -\*\*\* SEE PUMP NOTES BELOW

- ELECTRICAL LINE

- PVC THREADED

BY CONTRACTOR

WITH SECURED LID (TYP.) HEIGHT AS REQUIRED

DETAILS	AND	NOTES

CONTRA	ACT No.			
10026				
10020				
SHEET	OF			
2	2			