

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: ANCHORAGE-ON-THE-HUDSON LOT #3

PROJECT NO.: 23-06

PROJECT LOCATION: **SECTION 12.1, BLOCK 1, LOT 3**

7 OCTOBER 2024 REVIEW DATE: MEETING DATE: 17 OCTOBER 2024

ENGINEERING AND SURVEYING PROPERTIES PROJECT REPRESENTATIVE:

1. A note has been added to the plans identifying that a Building Permit is required for construction of any retaining walls over 4 feet in height.

2. An additional plan sheet for erosion and sediment control has been added to the plan set.

- 3. Based on the placement of approximately 5,000 yards of fill required to meet the grading plan and for the structure, it is recommended that a phasing plan be developed for the erosion and sediment control. Phasing plan should address timing of construction of retaining walls and detailed erosion and sediment control plan for each phase.
- 4. The discharge from the drainage system for the retaining walls should be located on the plans in order to protect the subsurface sanitary sewer disposal system.

Respectfully submitted,

MHE Engineering, D.P.C.

Patril of Offenes

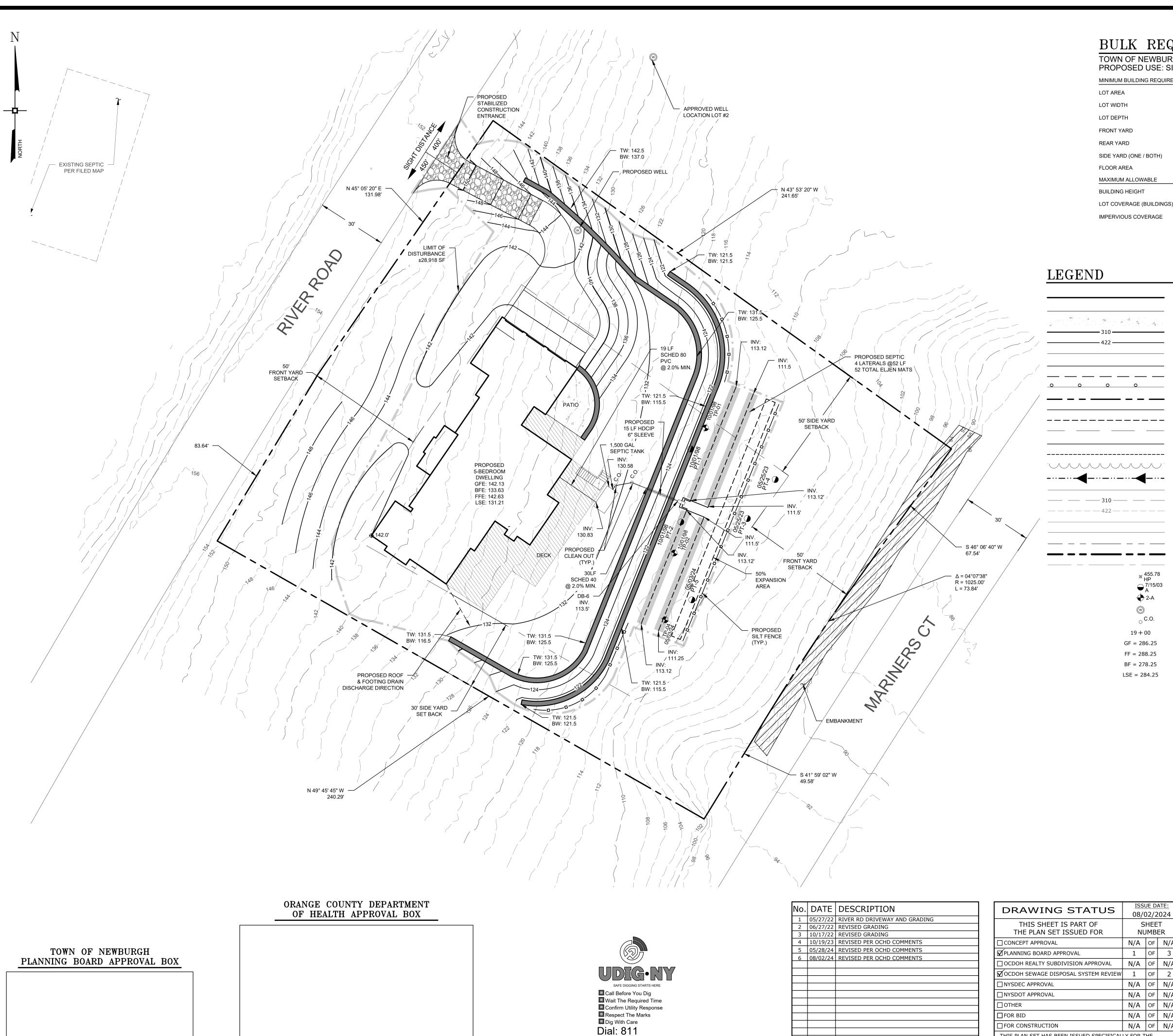
Patrick J. Hines

Principal PJH/kbw

Michael W. Weeks, P.E.

Much W Week

Principal



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BULK REQUIREMENTS

TOWN OF NEWBURGH - ZONING DISTRICT R-1 PROPOSED USE: SINGLE FAMILY DWELLING

THOT COLD COL. CITOLE 17	WILL DVVELEN	••	
MINIMUM BUILDING REQUIREMENTS	REQUIRED	PROPOSED	
LOT AREA	40,000 SF	48,915SF	
LOT WIDTH	150 FEET	216 FEET	
LOT DEPTH	150 FEET	242 FEET	
FRONT YARD	50 FEET	51 FEET	
REAR YARD	40 FEET	111 FEET	
SIDE YARD (ONE / BOTH)	30 / 80 FEET	31/93FEET	
FLOOR AREA	1,500 FEET	4,448 FEET	
MAXIMUM ALLOWABLE			
BUILDING HEIGHT	35 FT	< 35 FT	
LOT COVERAGE (BUILDINGS)	10 %	< 10 %	
IMPERVIOUS COVERAGE	20 %	< 20 %	

BUILDING LINE

CURB LINE

DRIVEWAY LINE

EASEMENT LINE

PROPERTY LINE

GUIDERAIL LINES

EDGE OF PAVEMENT LINE

SEPTIC SYSTEM LATERALS

BUILDING SETBACK LINES

EDGE OF SIDEWALK LINES

EXISTING BUILDING LINE

ADJACENT PROPERTY LINE

EXISTING PROPERTY LINE

SPOT GRADE ELEVATION

DEEP TEST HOLE LOCATION

ROAD STATIONING LABEL

FIRST FLOOR ELEVATION

GARAGE FLOOR ELEVATION

BASEMENT FLOOR ELEVATION

LOWEST SEWERABLE ELEVATION

COPIES OF THIS DOCUMENT

PERC TEST LOCATION

WELL LOCATION

SEWER CLEANOUT

EXISTING CURB LINE

LIMIT OF TREE CLEARING LINES

EXISTING MAJOR CONTOUR LINE

EXISTING MINOR CONTOUR LINE

EXISTING EDGE OF PAVEMENT LINE

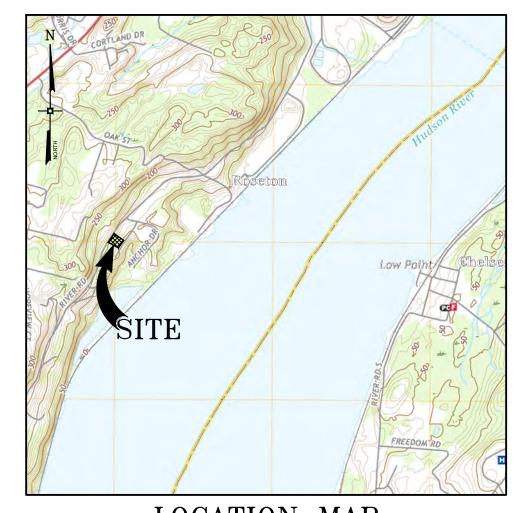
STORM DRAIN LINES

DRAINAGE SWALE

CONCRETE PAD LINE CONCRETE HATCH

MAJOR CONTOUR LINE

MINOR CONTOUR LINE



LOCATION MAP SCALE: 1" = 2000'

GENERAL NOTES

1. TAX MAP IDENTIFICATION NUMBER: SECTION 121 BLOCK 1 LOT 3

2. TOTAL AREA OF SUBJECT PARCEL: 1.12± ACRES OR 48,787± SQFT.

3. BOUNDARY INFORMATION BASED UPON A MAP ENTITLED "LOT LINE CHANGE & SUBDIVISION ANCHORAGE-ON-THE-HUDSON" DATED OCTOBER 5, 2001 AND FILED IN THE OFFICE OF THE ORANGE COUNTY CLERK ON OCTOBER 17, 2002 AS MAP NUMBER 216-02 SHEET 3 OF 16.

4. THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES PC, FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEMS) AS DERIVED FROM 2012 SOURCE LIDAR. THE DEMS WERE PROVIDED BY NYS.GIS.GOV. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.

5. OWNER / APPLICANT: MAJEED RAFIQ

57 LEXINGTON DRIVE NEWBURGH, NY 12550

6. THE PROPOSED LOT SHALL BE SERVICED BY AN INDIVIDUAL WELL AND SEPTIC.

7. DUE TO THE PROXIMITY OF THE PROJECT SITE TO A KNOWN INDIANA BAT HIBERNACULUM, ANY TREE CUTTING OR REMOVAL SHALL OCCUR WITHIN THE APPROPRIATE TIME OF YEAR WORK WINDOW, OCTOBER 1ST THROUGH MARCH 31ST, TO AVOID DIRECT IMPACTS TO INDIVIDUALS AND THE NEED FOR AN ARTICLE 11 TAKE PERMIT.

8. NO FLOOD PLAIN BOUNDARIES OR WETLANDS ON SITE.

9. TOTAL NUMBER OF LOTS: 1

10. ESTIMATED CUT MATERIAL: ±233.68 CU YD

11. ESTIMATED FILL MATERIAL: ±5,406.80 CU YD

IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.

12. ALL WELLS WITHIN 300 FEET OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE

13. THE OWNER OF THE LOT SHALL BE PROVIDED WITH A COPY OF THE PLANS AND AN ACCURATE AS-BUILT DRAWING OF ANY EXISTING SANITARY FACILITIES. THE OWNER/APPLICANT SHALL ALSO BE ADVISED OF ANY ROUTINE OR SPECIAL MAINTENANCE PROCEDURES THAT MAY BE NECESSARY.

USED WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM

15. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE

REQUIRED TO OBTAIN A TIME EXTENSION. 16. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES AT THE TIME OF CONSTRUCTION. THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT

OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS.

17. THE PROPERTY DOES NOT FALL WITHIN A PUBLIC WATERSHED, AND THERE WILL BE NO CONSTRUCTION ON WATERSHED LANDS.

18. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED WITHOUT REVIEW AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.

19. TRENCHES SHALL NOT BE INSTALLED IN WET SOIL. THE SIDES AND BOTTOM OF TRENCHES MUST BE

20. THERE SHALL BE NO REGARDING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS

21. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.

22. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.

23. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS OR JACUZZI TYPE SPA TUBS OVER 100 GALLONS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY HEALTH

WITHOUT AN ACTUAL OR FACSIMILE OF THE SHEET ENGINEER'S SIGNATURE NUMBER AND AN ORIGINAL STAMP RED OR BLUE INK SHALL BE N/A OF N/A CONSIDERED INVALID. 1 | OF | 3 JNAUTHORIZED N/A OF N/A ALTERATIONS OR ADDITIONS TO THIS DOCUMENT BEARING THE N/A OF N/A SEAL OF A LICENSED PROFESSIONAL ENGINEER N/A OF N/A IS A VIOLATION OF SECTION 7209 SUBSECTION N/A OF N/A

2 OF THE NEW YORK STATE N/A OF N/A EDUCATION LAW. N/A OF N/A THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS 1 inch = 20 ft.ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

ROSS WINGLOVITZ, P.E. NEW YORK LICENSE # 071701

NGINEERING MONTGOMERY OFFICE 71 CLINTON STREET MONTGOMERY, NY 12549 Ph: (845) 457-7727 Achieving Successful Results with Innovative Designs WWW.EP-PC.COM SITE PLAN

6 - 08/02/2024

ANCHORAGE-ON-THE-HUDSON LOT #3 MARINERS COURT TOWN OF NEWBURGH

ORANGE COUNTY, NEW YORK DRAWN BY: 1600.01 RMB & KAB 1" = 20' 05/19/2021

121-1-3

REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS DRAINAGE PROPERTY LINE DITCH OR RAIN WATERCOURSE (B), DWELLING LINE (E)(G) COMPONENTS OR WETLAND GARDENS (H 25' IF CAST IRON 10' HOUSE SEWER DRAIN (WATERTIGHT JOINTS) 50' OTHERWISE SEPTIC TANK, DOSING TANK OR WATERTIGHT ETU 10' EFFLUENT LINE TO DISTRIBUTION BOX/DROP BOX 50' 10' 10' 10' DISTRIBUTION BOX/DROP BOX 100' 20' ABSORPTION FIELD (C) (D) 100' (a) 100' 20' 20' 10' SEEPAGE PIT (D) 150' (a) RAISED SYSTEM OR MOUND (C)(D) 100' (a) 100' 20' 20' INTERMITTENT SAND FILTER (D) 100' (a) (f) 100' (f) 20' 10' 20' NON-WATERBORNE SYSTEMS WITH OFFSIT 50' 10' RESIDUAL DISPOSAL NON-WATERBORNE SYSTEMS WITH ONSITE 20' DISCHARGE

- a. WHEN WASTEWATER TREATMENT SYSTEMS ARE LOCATED UPGRADE AND IN THE DIRECT PATH OF SURFACE WATER DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 FEET AWAY FROM THE WELL. MEAN HIGH WATER MARK. WETLAND OR WATERCOURSE DETERMINATIONS SHOULD BE ADDRESSED WITH THE LHD OR OTHER AGENCY
- HAVING JURISDICTION AND THE APPLICABLE NYSDEC REGIONAL OFFICE. c. FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TOF OF THE
- SLOPE OF THE FILL, EXCEPT FOR SOME SHALLOW ABSORPTION TRENCH SYSTEMS AS DESCRIBED IN SECTION 9.12.2 OF THIS HANDBOOK. SEPARATION DISTANCES SHALL ALSO BE MEASURED FROM THE EDGE OF THE DESIGNATED ADDITIONAL USEABLE AREA (I.E., RESERVE
- AREA). WHEN AVAILABLE e. THE CLOSEST PART OF THE WASTEWATER TREATMENT SYSTEM SHALL BE LOCATED AT LEAST TEN (10) FEET FROM ANY WATER SERVICE LINE (E.G., PUBLIC WATER SUPPLY MAIN, PUBLIC WATER SERVICE LINE OR RESIDENTIAL WELL WATER SERVICE LINE).
- WHEN INTERMITTENT SAND FILTERS ARE DESIGNED TO BE WATERTIGHT AND COLLECT ALL EFFLUENT, THE SEPARATION DISTANCE CAN BE REDUCED TO 50 FEET. THE LISTED WATER WELL SEPARATION DISTANCES FROM CONTAMINANT SOURCES SHALL BE INCREASED BY 50% WHENEVER AQUIFER WATER ENTERS THE WATER WELL AT LESS THAN 50-FEET BELOW GRADE. IF A 50% INCREASE CANNOT BE ACHIEVED, THEN THE
- GREATEST POSSIBLE INCREASE IN SEPARATION DISTANCE SHALL BE PROVIDED WITH SUCH ADDITIONAL MEASURES AS NEEDED TO h. RECOMMENDED; USE SITE EVALUATION TO AVOID OWTS SHORT-CIRCUITING TO THE SURFACE OR GROUNDWATER AND TO MINIMIZE

IMPACTS ON OWTS FUNCTIONALITY.

- EMBANKMENT OR VERY STEEP SLOPE: IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 25 FEET AND THE ABSORPTION FIELD BE LOCATED A MINIMUM OF 50 FEET FROM AN EMBANKMENT OR VERY STEEP SLOPE. MAXIMIZE SEPARATION
- SWIMMING POOLS (ABOVE OR BELOW GROUND): IT IS RECOMMENDED THAT SYSTEM COMPONENTS BE LOCATED A MINIMUM OF 20 FEET AND THE ABSORPTION FIELD BE LOCATED A MINIMUM OF 35 FEET FROM SWIMMING POOLS. MAXIMIZE SEPARATION DISTANCES AND USE

DISTANCES AND USE SITE EVALUATION TO AVOID SHORT-CIRCUITING TO SURFACE (BREAKOUT OR SEEPAGE).

- SITE EVALUATION TO MINIMIZE IMPACTS ON OWTS ACCESSIBILITY AND FUNCTIONALITY. ALL SEPARATION REQUIREMENTS ARE FROM THE "OCHD DESIGN POLICY AND STANDARDS APPENDIX 75-A AND DESIGN HANDBOOK."
- SEPARATION: ABSORPTION FIELD TO THE HIGH WATER LINE OF WET POND 100'. SEPARATION: ABSORPTION FIELD TO INTERMITTENT STREAM, STORMWATER INFILTRATION MANAGEMENT PRACTICE, CULVERT OR STORM SEWER (NONGASKETED PIPE), OR CATCH BASIN - 50'.
- SEPARATION: ABSORPTION FIELD TO CULVERT OR STORM SEWER (GASKETED, TIGHT PIPE) 35'. SEPARATION: ABSORPTION FIELD TO ROOF OR FOOTING DRAIN, SNOW STORAGE EASEMENT - 10'.
- DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATERTIGHT
- SEPARATION: WELL TO SUBDIVISION BOUNDARY 50' SEPARATION: ABSORPTION FIELD TO SUBDIVISION BOUNDARY - 50'.

DEEP TEST HOLE RESULTS

TEST HOLE#	DATE	DEPTH	DESCRIPTION
TP-01	10/01/98	0" - 12" 12" - 36" 36" - 90"	TOPSOIL AND ORGANIC MATERIAL TO 12" COMPACT SILTS TO 36" COMPACT LOAM TO 90" SHALE AT 90", NO GROUNDWATER, NO MOTTLING
TP-02	10/01/98	0" - 12" 12" - 36" 36" - 84"	TOPSOIL AND ORGANIC MATERIAL TO 12" COMPACT SILTS TO 36" COMPACT LOAM TO 84" NO BEDROCK, NO GROUNDWATER, NO MOTTLING
TP-03	05/08/01	0" -7" 7" - 42" 42" - 96"	TOPSOIL TO 7" LIGHT BROWN SILT TO 42" MED. BROWN SILT TO 96" SEEPAGE @ 5'
TP-04	05/03/24	0" - 6" 6" - 48" 48" - 96"	TOPSOIL TO 6" BROWN SILT LOAM, 0"- 12" DARK BROWN SILTY LOAM, ROCKS 0" - 12" DIA. SEEPAGE AT 5' HEAVY SEEPAGE AT 7', NO MOLTING, NO BEDROCK

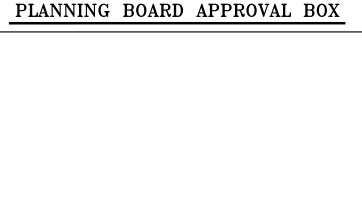
PERCOLATION TEST RESULTS

PERC HOLE#	PERC HOLE DEPTH	PERC HOLE DIA	TIME	S (TI	STABILIZED RATE			
40/04/00		FINISH	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP		
10/01/98 PT-01	24"	10"	START					30 MIN
1 1-01			TIME	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP	
10/01/00			FINISH	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP	
10/01/98 PT-02	24"	10"	START					40 MIN
1 1-02			TIME	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP	
		24" 12"	FINISH	00:11:40	00:15:32	00:16:07	-	
05/25/23 PT-03	24"		START STOPWATCH USED FOR TIMED INTERVALS		ERVALS	16 MIN		
1 1 00	1 1-00		TIME	00:11:40	00:15:32	00:16:07	-	
2 = /2 = /22			FINISH	00:06:07	00:12:48	00:13:42	00:14:20	
05/25/23 PT-04	24"	12"	START	STO	PWATCH USED	FOR TIMED INT	ERVALS	15 MIN
			TIME	00:06:07	00:12:48	00:13:42	00:14:20	
05/00/04	24"	24" 12"	FINISH	00:05:10	00:05:55	00:06:45		
05/03/24 PT-05			START	STOPWATCH USED FOR TIMED INTERVALS		10 MIN		
55			TIME	00:05:10	00:05:55	00:06:45		

SEPTIC SYSTEM DESIGN SCHEDULE

STABILIZE PERC RATE (min)	FLOW RATE (GPD)	BACKWASH (GPD)	TOTAL FLOW (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft) (ELJEN)	PROPOSED ABSORPTION FIELD LENGTH (ft)
40	550	65	615	0.50	1,230	205	4 LATERALS @ 52 LF = 208 LF 52 TOTAL ELJEN MATS

TOWN OF NEWBURGH



ASTM C33 SAND

4' MIN UNDIST

SIEVE SQUARE OPENNING SIZE	SPECIFICATION % PASSING (WET
0.5	
9.5mm	100-100
4.75mm	95.0-100.0
2.36mm	80.0-100.0
1.18mm	50.0-85.0
600um	25.0-60.0
300um	5.0-30.0
150um	<10.0
75um	<5.0
	2.36mm 1.18mm 600um 300um 150um

SYSTEM INSTALLATION GUIDELINES - ELJEN GSF INSTALLATION MANUAL

- REFERENCE APPENDIX 75-A AND LOCAL HEALTH DEPARTMENT REGULATIONS FOR DESIGN AND
- PLACE THE 7-INCH TALL GEOTEXTILE SAND FILTER MODULES ON TOP OF A 6" MINIMUM LEVEL SURFACE OF ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE. YOU MUST USE THE SPECIFIED SAND AS LISTED ON PAGE 4 OF THIS MANUEL TO ENSURE PROPER SYSTEM OPERATION.
- SPECIFIED SAND PLACED ALONG BOTH SIDES AND ACROSS THE TOP OF THE GSF MODULE ENSURES AERATION OF THE MODULES. ADDITIONAL SAND PLACED ABOVE THE MODULE IS RECOMMENDED TO MAINTAIN OXYGEN TRANSFER TO THE SYSTEM
- USE THE PROVIDED WIRE CLAMPS TO SECURE THE APPROVED PERFORATED 4-INCH DIAMETER DISTRIBUTION PIPE SDR 35 OR EQUIVALENT TO THE TOP OF EACH GSF MODULES.
- COVER THE TOPS AND SIDES OF THE MODULES ALONG THE ENTIRE LENGTH OF EACH ROW WITH ELJEN GEOTEXTILE COVER FABRIC PRIOR TO BACKFILLING WITH SPECIFIED SAND. WHERE THE PERCOLATION RATE EXCEEDS 30 MINUTES-PER-INCH OR THE SOIL TEXTURE IS FINER.
- SOIL BY THE EXCAVATOR. WHEN BACKFILLING THE INSTALLATION WITH NATIVE SOILS, STONES 2 INCHES OR LARGER MUST BE REMOVED.

THE SYSTEM SHOULD BE BUILT FROM ONE END TO THE OTHER TO AVOID ANY COMPACTION OF THE

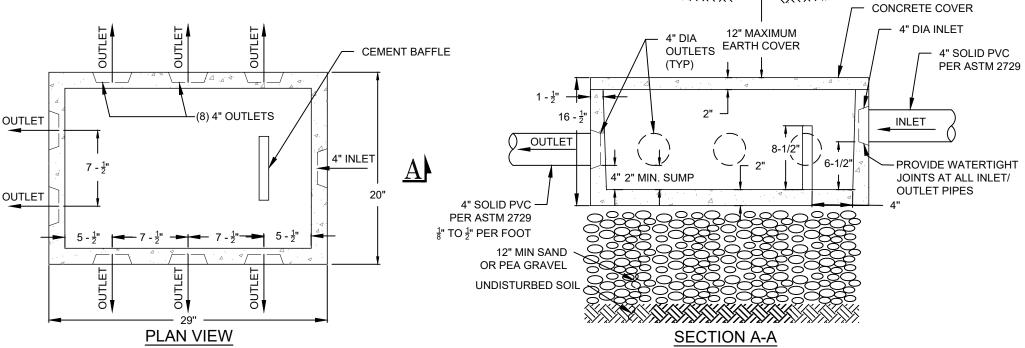
FINISH BY GRADING THE AREA TO DIVERT STORM WATER RUNOFF AWAY FROM THE SYSTEM. DO NOT DRIVE BACKHOE WHEELS OVER GSF MODULES WITH LESS THAN 12 INCHES OF COVER OVER THE DISTRIBUTION PIPE. DRIVING OR PAVING OVER THE GEOTEXTILE SAND FILTER AREA IS PROHIBITED. FOR SHALLOW INSTALLATIONS, LIGHT-WEIGHT TRUCK-MOUNTED MACHINES ARE BEST

FOR SETTING THE FINAL GRADE. IT IS ALSO PERMISSIBLE TO BACK-BLADE THE SOIL TO SET FINAL

MINIMUM COVER. PERIMETER LANDSCAPE TIMBERS ARE ALSO RECOMMENDED TO LOCATE THE

- SHALLOW BEDS. THEREBY KEEPING VEHICLES OFF THE SYSTEM. 10. SEEDING AND STABILIZING THE SOIL COVER IS REQUIRED TO PROTECT THE SYSTEM FROM SOIL
- 11. WHERE THE ELEVATION OF THE SURFACE EXCEEDS THE NATURAL GRADE, A BLOCK OR LANDSCAPE TIMBER FRAME OR SLOPING SOIL TOE AT A 3:1 GRADE CAN BE USED TO HELP ELIMINATE SOIL EROSION AND SUPPORT MAINTENANCE OF THE STABILIZING GRASS COVER ADJACENT TO THE GSF
- 12. FOR PUMPED SYSTEMS, PROVIDE A WELL ANCHORED DISTRIBUTION BOX WITH A VELOCITY REDUCTION TEE OR BAFFLE.
- 13. VENTING OF SYSTEMS IS REQUIRED WHEN THERE IS MORE THAN 18 INCHES OF COVER MATERIAL AS MEASURED FROM THE TOP OF THE MODULE TO FINISHED GRADE. LOCATE VENT AT THE DISTAL (FAR)

—ELJEN IN-DRAIN



DISTRIBUTION BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-9 OR APPROVED EQUAL.

CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION.

MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS.

EXISTING GRADE

TRENCH DEPTH

TIGHT CLAY SOIL,

OR GROUNDWATER

HARDPAN, ROCK

MIN

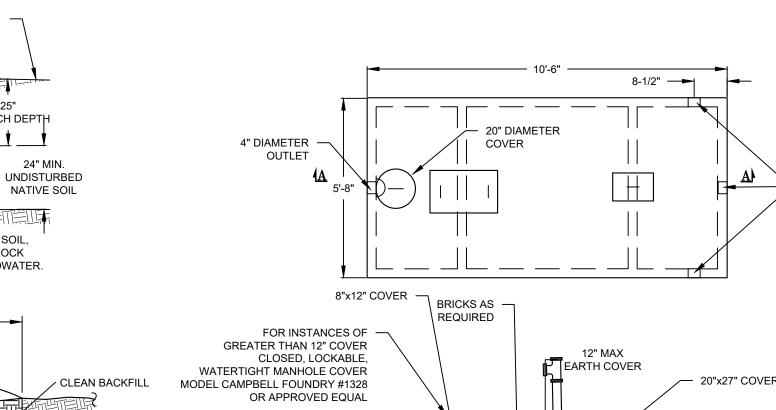
- SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS.
- FIRST 30" MIN OF OUTLET PIPE(S) TO BE SOLID PVC AND SHOULD BE BACKFILLED WITH NATIVE MATERIAL NOT AGGREGATE. UNUSED OUTLETS TO REMAIN PLUGGED
- 8. DISTRIBUTION BOXES SHOULD BE INSPECTED ANNUALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

8 HOLE DISTRIBUTION BOX

EFFLUENT FILTER - POLYLOK PL-68

4" DIAMETER PVC -

OUTLET PIPE MIN. SLOPE 1/8"/FT



4" SLOT —

INC.MODEL ST 1500, OR APPROVED EQUAL.

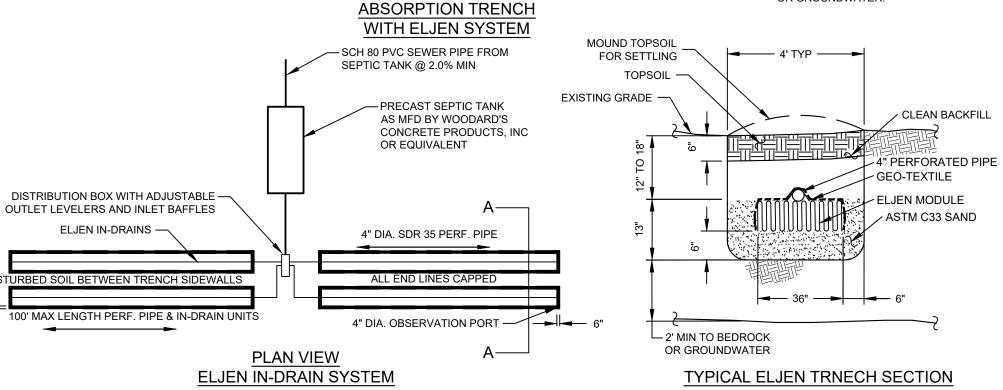
3. REINFORCEMENT - 6" X 6" X 10 GAUGE WIRE MESH.

4. SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.

REQUIREMENT FOR BAFFLE 16" BELOW LIQUID LEVEL.

2. CONCRETE - 4000 PSI AT 28 DAYS.

THROUGH THE STACK VENT.



PER PLAN

8'0"

TYPICAL

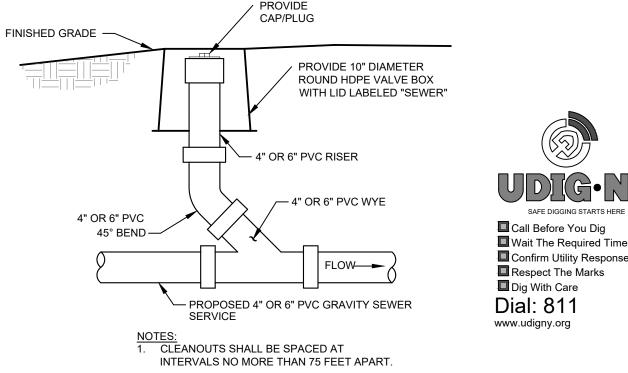
CROSS SECTION A-A - TILE FIELD

TYPICAL

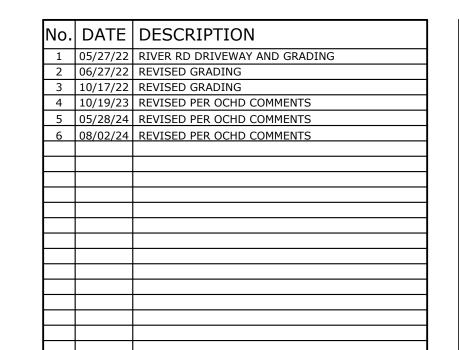
ELJEN UNITS SHALL BE LAID LEVEL.

- THIS DESIGN AND CONSTRUCTION REQUIREMENT COMPLIES WITH APPENDIX 75-A AND LOCAL HEALTH DEPARTMENT REGULATIONS. THIS DESIGN COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT ELJEN NEW YORK DESIGN AND INSTALLATION MANUAL
- THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENER.
- ORGANIC MATERIAL THAT CAN RESTRICT FLOW MUST BE REMOVED FOR RAISED BEDS. THE SOIL MUST BE SCARIFIED TO PROVIDE DEEP CHANNELS FOR THE SAND. A PLOWED INTERFACE ON CONTOUR IS RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT. SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT
- 8. FILL MATERIAL SHALL MEET OR EXCEED STATE OF NEW YORK CODE REQUIREMENTS. ALL FILL MATERIAL SHALL BE CLEAN BANK RUN SAND, FREE OF TOPSOIL ,HUMUS, AND "DREDGING" DIRECTLY
- 9. ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE SHALL BE PLACE BELOW AND AROUND THE GSF MODULES, WITH 6 INCHES MINIMUM UNDERNEATH AND 6 INCHES MINIMUM SURROUNDING THE GSF MODULES IN TRENCH CONFIGURATIONS. IN BED SYSTEMS, USE 6 INCHES MINIMUM UNDERNEATH THE MODULES WITH 12 INCHES MINIMUM BETWEEN MODULE ROWS AND 12 INCHES MINIMUM AROUND THE PERIMETER OF THE MODULES 10. ELJEN PROVIDED GEOTEXTILE COVER FABRIC SHALL PROVIDE PROPER TENSION AND ORIENTATION OF THE FABRIC AROUND THE SIDES OF THE PERFORATED PIPE ON TOP OF THE GSF MODULES. FABRIC
- SHOULD BE NEITHER TOO LOOSE, NOR TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY: SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TENTED OVER THE TOP OF THE PERFORATED DISTRIBUTION PIPE. 12. • PLACE SHOVEL FULL'S OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A MOSTLY VERTICAL ORIENTATION ALONG THE SIDES OF THE PIPE. REPEAT THIS
- 13. BACKFILL MATERIAL SHALL BE CLEAN WITH NO ROOTS OR STONES LARGER THAN 2 INCHES IN ANY DIMENSION TO A MINIMUM DEPTH OF 8 INCHES OVER THE GSF MODULES AND FINAL COVER FOR
- VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM. 14. ANY SYSTEM WHICH IS MORE THAN 18 INCHES BELOW FINISH GRADE AS MEASURED FROM THE TOP OF THE MODULE SHALL BE VENTED.

ABSORPTION TILE FIELD OVERALL PLAN



TYPICAL CLEANOUT



DRAWING STATUS	ISSUE DATE: 08/02/2024				
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER				
CONCEPT APPROVAL	N/A	OF	N/A		
☑ PLANNING BOARD APPROVAL	2	OF	3		
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A		
☑OCDOH SEWAGE DISPOSAL SYSTEM REVIEW	2	OF	2		
NYSDEC APPROVAL	N/A	OF	N/A		
NYSDOT APPROVAL	N/A	OF	N/A		
OTHER	N/A	OF	N/A		
☐ FOR BID	N/A	OF	N/A		
☐ FOR CONSTRUCTION	N/A	OF	N/A		
THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).					

- 2" BAFFLE VENT

LIQUID LEVEL

12" MIN. SAND OR PEA GRAVEL

5. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK, OR ANY

6. FOR THE INLET, USE A SANITARY TEE WITH PIPE EXTENSION TO MEET THE NYSDOH

7. SEPTIC TANKS SHOULD BE INSPECTED ANNUALLY AND PUMPED EVERY 2-3 YEARS.

SECTION A-A

PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS,

PUMPING OR DOSING CHAMBER, TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE

1500 GALLON SEPTIC TANK

(FOR 5-BEDROOM HOUSE)

COPIES OF THIS DOCUMENT WITHOUT AN ACTUAL OR FACSIMILE OF THE ENGINEER'S SIGNATURE AND AN ORIGINAL STAMP RED OR BLUE INK SHALL BI CONSIDERED INVALID. UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 SUBSECTION 2 OF THE NEW YORK STATE ROSS WINGLOVITZ, P.E. **EDUCATION LAW** NEW YORK LICENSE # 071701

ORIGINAL SCALE IN INCHES

TO SEEPAGE PIT -USE PVC, TYPE 1 DRAIN-WASTE-VENT PIPE AND FITTINGS. THE WATER SOFTENER BACKWASH DISCHARGE LINE SHALL BE SECURELY ANCHORED AND CENTERED ABOVE THE DRAIN-WASTE-VENT PIPE TO ENSURE ACCURATE DISCHARGE OF BACKWASH EFFLUENT INTO THE DWV PIPE. ON-SITE SUBSURFACE WASTEWATER DISPOSAL SYSTEM SHALL BE DESIGNED TO ACCOMODATE THE DISCHARGE OF A FULL VOLUME OF BACKWASH WASTEWATER EACH DAY (65 GAL./DAY). BACKWASH OUTLET

 $\frac{3}{4}$ " PVC BACKWASH DRAIN

PIPE FROM WATER SOFTENER

4" TO 2" REDUCER

COUPLING

EFFLUENT FILTER - POLYLOK PL-68

Construction: PVC or Polyethylene plastic NSF Standard 46 Certified

Floating Ball prevents flow when filter is removed

Sch40 Outlet

Removable Filter

1/16" slot size

68 linear feet

of filtration

PVC Housing

or cleaning

CERTIFIED NSF-46, RATED FOR 800 GALLONS/DAY.

OR AT LEAST ONCE EVERY THREE YEARS.

SCHEDULED INLET PIPE

MIN. SLOPE

SEAL PIPE WITH

ASPHALTIC

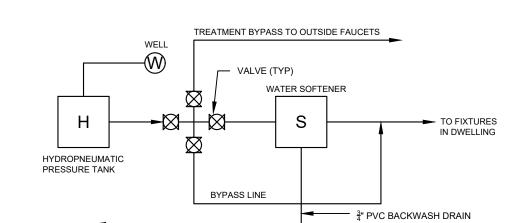
MATERIAL OR

EQUIVALENT

___ 12"x16" COVER

1. EFFLUENT FILTER SHALL BE POLYLOK MODEL PL-68 OR APPROVED EQUAL,

2. EFFLUENT FILTER WILL OPERATE EFFICIENTLY FOR SEVERAL YEARS UNDER NORMAL CONDITIONS BEFORE REQUIRING CLEANING. IT IS RECOMMENDED THAT THE FILTER BE CLEANED EVERY TIME THE SEPTIC TANK IS PUMPED,



WATER SOFTENER

- 1. THE INSTALLATION OF A WATER CONDITIONER SYSTEM IS OPTIONAL AND SHOULD ONLY BE CONSIDERED IF THE INDIVIDUAL WELL WATER HARDNESS PROVES TO BE IN EXCESS OF 150 mg/L, OR IRON LEVELS ARE IN EXCESS OF 0.3 mg/L (MAXIMUM CONTAMINANT LEVEL (MCL)). 2. REMOVING HARDNESS VIA ION EXCHANGE METHODS INCREASES THE SODIUM CONTENT OF WATER
- AT A RATE OF 46 mg/L OF SODIUM FOR EACH 100 mg/L OF HARDNESS REMOVED. 3. IF A WATER CONDITIONER SYSTEM IS TO BE INSTALLED IT SHALL BE INSTALLED IN ACCORDANCE
- WITH THIS APPROVED DESIGN. 4. USE A CULLIGAN MEDALIST SERIES WATER CONDITIONER 1.0 CU FT. MODEL (10" DA X 40" TALL)
- EXISTING CONDITIONS

TOTAL HARDNESS = 329 mg/L (PER11/29/00 TEST DATA) =19.2 GRAINS/GALLON

EXCHANGE CAPACITY:

EXCHANGE CAPACITY AT SALT DOSAGE/RECHARGE = 24,000 GRAINS. EXISTING CONDITION: TOTAL HARDNESS = 19.2 GRAINS/GALLON THE TOTAL DAILY FLOW = 110 GPD/BEDROOM X 5 BEDROOMS = 550 GPD TOTAL DAILY HARDNESS REMOVED = 550 GPD X 19.2 GR/GAL = 10,560 MAXIMUM PERIOD OF BACKWASH = 24,000 GRAINS / 10,560 GR/GAL = 2.3-DAYS ==> 2-DAYS

DAILY BACKWASH ALLOWANCE

PER MANUFACTURER'S (CULLIGAN) SPECIFICATIONS, THE TOTAL VOLUME OF BACKWASH WASTEWATER DISCHARGED PER REGENERATION CYCLE IS 65 GALLONS. BASED ON THE MAXIMUM PERIOD OF BACKWASH (2.4-DAYS) DETERMINED, IT IS SAFE TO ASSUME A MAXIMUM TOTAL DAILY BACKWASH VOLUME OF 65 GALLONS. THE WASTEWATER DISPOSAL SYSTEM HAS TO BE SIZED TO ACCOMMODATE THE ADDITIONAL 65 GALLONS PER DAY OF BACKWASH WASTEWATER.

8. MAKE AND MODEL: CULLIGAN GOLD SERIES, 9" MODEL

TNGINEERING! 71 CLINTON STREET MONTGOMERY, NY 12549 Ph: (845) 457-7727 Achieving Successful Results WWW.EP-PC.COM with Innovative Designs DETAILS &

SEPTIC DESIGN SCHEDULE ANCHORAGE-ON-THE-HUDSON LOT #3 MARINERS COURT TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK

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