

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME:ANCHORAGE-ON-THE-HUDSON LOT #3PROJECT NO.:23-06PROJECT LOCATION:SECTION 12.1, BLOCK 1, LOT 3REVIEW DATE:13 SEPTEMBER 2024MEETING DATE:19 SEPTEMBER 2024PROJECT REPRESENTATIVE:ENGINEERING AND SURVERYING PROPERTIES

- 1. Approval for the modifications to the subsurface sanitary sewer disposal system has been received from the Orange County Health Department dated 14 August 2024.
- 2. The project identifies approximately 5,400 cubic yards of material required to fill the site to the proposed grades. A 2-tier retaining wall system is proposed. The retaining walls will require building permits from the Building Department.
- 3. An Erosion and Sediment Control Plan and details should be incorporated into the plan set.
- 4. A well detail should be included in the plan set.
- 5. A Public Hearing is required for the amended subdivision.
- 6. The revised driveway location should be approved by the Highway Superintendent.
- 7. The proposed structure is located in close proximity to the allowable building envelope. A note should be placed on the plans requiring a stake out of the structure prior to pouring of the foundation.

Respectfully submitted,

MHE Engineering, D.P.C.

Patent & Aferes

Patrick J. Hines Principal PJH/kmm

Mue wasen

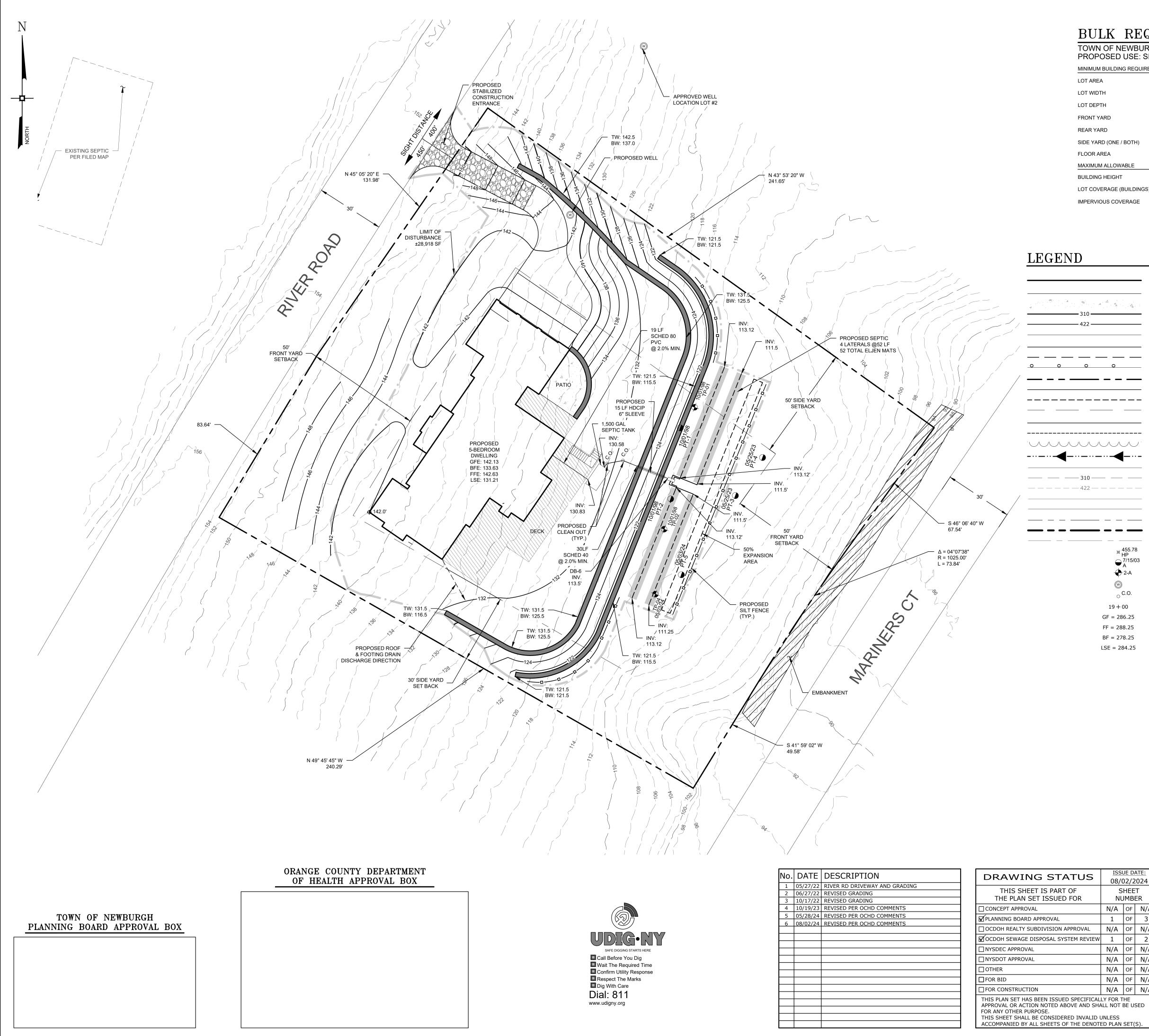
Michael W. Weeks, P.E. Principal

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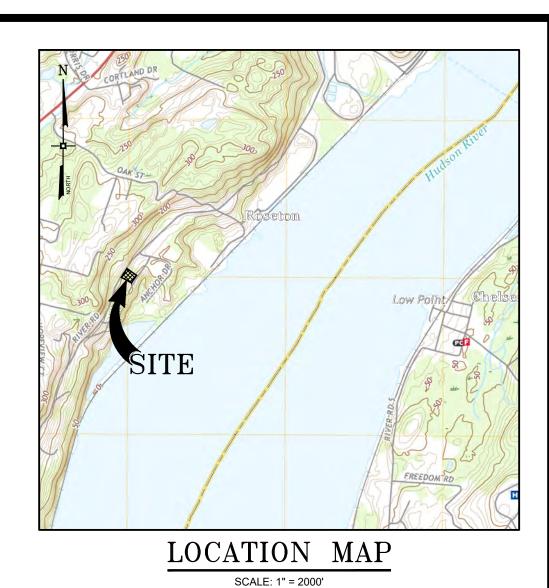


Z:\1600.01 — Rafig Subdivision\1600.01 — Plot Plan— Driveway Grading.dwg Date Printed: Aug 02, 2024, 1:23pm

BULK REQUIREMENTS

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

MUM BUILDING REQUIREMENTS	REQUIRED	PROPOSED
AREA	40,000 SF	48,915SF
WIDTH	150 FEET	216 FEET
DEPTH	150 FEET	242 FEET
NT YARD	50 FEET	51 FEET
R YARD	40 FEET	111 FEET
YARD (ONE / BOTH)	30 / 80 FEET	31/93FEET
OR AREA	1,500 FEET	4,448 FEET
IMUM ALLOWABLE		
DING HEIGHT	35 FT	< 35 FT
COVERAGE (BUILDINGS)	10 %	< 10 %
ERVIOUS COVERAGE	20 %	< 20 %



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

NEWBURGH, NY 12550

- 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
- 12. ALL WELLS WITHIN 300 FEET OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
- 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.
- 14. INDIVIDUAL WELLS AND SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO THE PUBLIC SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.
- 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 RAKED.
- 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 DEPARTMENT.

		ue d. 02/2	<u>ate:</u> 2024	COPIES OF THIS DOCUMENT WITHOUT AN ACTUAL OR	0	NGINEERING MONTGOMERY OFFICE & SURVEYING 71 CLINTON STREET
		HEE JMB		FACSIMILE OF THE ENGINEER'S SIGNATURE AND AN ORIGINAL STAMP IN	1/M	Achieving Successful Results Ph: (845) 457-7727
	N/A	OF	N/A	RED OR BLUE INK SHALL BE CONSIDERED INVALID.	1.UU	with Innovative Designs VVVVVV.EP-PC.COM
	1	OF	3	UNAUTHORIZED		
	N/A	OF	N/A	ALTERATIONS OR		SITE PLAN
/	1	OF	2	ADDITIONS TO THIS DOCUMENT BEARING THE		ANCHORAGE-ON-THE-HUDSON LOT #3
	N/A	OF	N/A	SEAL OF A LICENSED		MARINERS COURT
	N/A	OF	N/A	PROFESSIONAL ENGINEER IS A VIOLATION OF	U	TOWN OF NEWBURGH
	N/A	OF	N/A	SECTION 7209 SUBSECTION 2 OF THE NEW YORK STATE		ORANGE COUNTY, NEW YORK
	N/A	OF	N/A	EDUCATION LAW.	ROSS WINGLOVITZ, P.E. NEW YORK LICENSE # 071701	JOB #: DRAWN BY:
	N/A	OF	N/A	20 0	10 20 40	1600.01 RMB & KAB
	LY FOR T		SED			DATE: SCALE: 05/19/2021 1" = 20' C-101
	JNLESS ED PLAN	SET((S).	1 ii	nch = 20 ft.	REVISION: TAX LOT: 6 - 08/02/2024 121-1-3

BUILDING LINE CONCRETE PAD LINE CONCRETE HATCH MAJOR CONTOUR LINE MINOR CONTOUR LINE CURB LINE DRIVEWAY LINE EASEMENT LINE GUIDERAIL LINES PROPERTY LINE EDGE OF PAVEMENT LINE SEPTIC SYSTEM LATERALS BUILDING SETBACK LINES EDGE OF SIDEWALK LINES STORM DRAIN LINES LIMIT OF TREE CLEARING LINES DRAINAGE SWALE EXISTING BUILDING LINE EXISTING MAJOR CONTOUR LINE EXISTING MINOR CONTOUR LINE EXISTING CURB LINE EXISTING EDGE OF PAVEMENT LINE ADJACENT PROPERTY LINE EXISTING PROPERTY LINE EXISTING ROAD CENTERLINE SPOT GRADE ELEVATION PERC TEST LOCATION DEEP TEST HOLE LOCATION WELL LOCATION SEWER CLEANOUT ROAD STATIONING LABEL GARAGE FLOOR ELEVATION FIRST FLOOR ELEVATION BASEMENT FLOOR ELEVATION LOWEST SEWERABLE ELEVATION

- [∞] 455.78 HP ⊖^{7/15/03} ⊖ **C.O**. 19 + 00GF = 286.25 FF = 288.25
- _____

BF = 278.25 LSE = 284.25

REQUIRED SEPARATION DIS	TANCES FRO	M WASTEWAT	ER SYSTEM	COMPONEN	ITS
SYSTEM COMPONENTS	WELL OR SUCTION LINE (E)(G)	STREAM, LAKE, WATERCOURSE (B), OR WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH OR RAII GARDENS (H)
HOUSE SEWER DRAIN (WATERTIGHT JOINTS)	25' IF CAST IRON 50' OTHERWISE	25'	3'	10'	10'
SEPTIC TANK, DOSING TANK OR WATERTIGHT ETU	50'	50'	10'	10'	10'
EFFLUENT LINE TO DISTRIBUTION BOX/DROP BOX	50'	50'	10'	10'	10'
DISTRIBUTION BOX/DROP BOX	100'	100'	20'	10'	20'
ABSORPTION FIELD (C) (D)	100' (a)	100'	20'	10'	20'
SEEPAGE PIT (D)	150' (a)	100'	20'	10'	20'
RAISED SYSTEM OR MOUND (C)(D)	100' (a)	100'	20'	10'	20'
INTERMITTENT SAND FILTER (D)	100' (a) (f)	100' (f)	20'	10'	20'
NON-WATERBORNE SYSTEMS WITH OFFSITE	501	501	001	401	401
RESIDUAL DISPOSAL	50'	50'	20'	10'	10'
NON-WATERBORNE SYSTEMS WITH ONSITE DISCHARGE	100'	50'	20'	10'	20'

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. 5. 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

PREVENT CONTAMINATION. h. RECOMMENDED; USE SITE EVALUATION TO AVOID OWTS SHORT-CIRCUITING TO THE SURFACE OR GROUNDWATER AND TO MINIMIZE IMPACTS ON OWTS FUNCTIONALITY.

ADDITIONAL SEPARATION REQUIREMENTS 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 DISTANCES AND USE SITE EVALUATION TO AVOID SHORT-CIRCUITING TO SURFACE (BREAKOUT OR SEEPAGE). 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 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 32 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'. 3.4. DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATERTIGHT 3.5.

SEPARATION: WELL TO SUBDIVISION BOUNDARY - 50' 3.6. SEPARATION: ABSORPTION FIELD TO SUBDIVISION BOUNDARY - 50'. 37

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		PERCOLATIC TOPWATCH USE ME FOR 1" DRO			STABILIZED RATE
			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	
			FINISH	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP	
10/01/98 PT-02	24"	10"	START					40 MIN
11-02			TIME	PER FILED MAP	PER FILED MAP	PER FILED MAP	PER FILED MAP	
	24"	24" 12"	FINISH	00:11:40	00:15:32	00:16:07	-	
05/25/23 PT-03			START	STOPWATCH USED FOR TIMED INTERVALS			16 MIN	
			TIME	00:11:40	00:15:32	00:16:07	-	
			FINISH	00:06:07	00:12:48	00:13:42	00:14:20	
05/25/23 PT-04	24"	24" 12"	START	STOPWATCH USED FOR TIMED INTERVALS			15 MIN	
1104			TIME	00:06:07	00:12:48	00:13:42	00:14:20	
			FINISH	00:05:10	00:05:55	00:06:45		
05/03/24 PT-05	24"	12"	START	STO	PWATCH USED	FOR TIMED INT	ERVALS	10 MIN
			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)	FIN
40	550	65	615	0.50	1,230	205	4 LATERALS @ 52 LF = 208 LF 52 TOTAL ELJEN MATS	

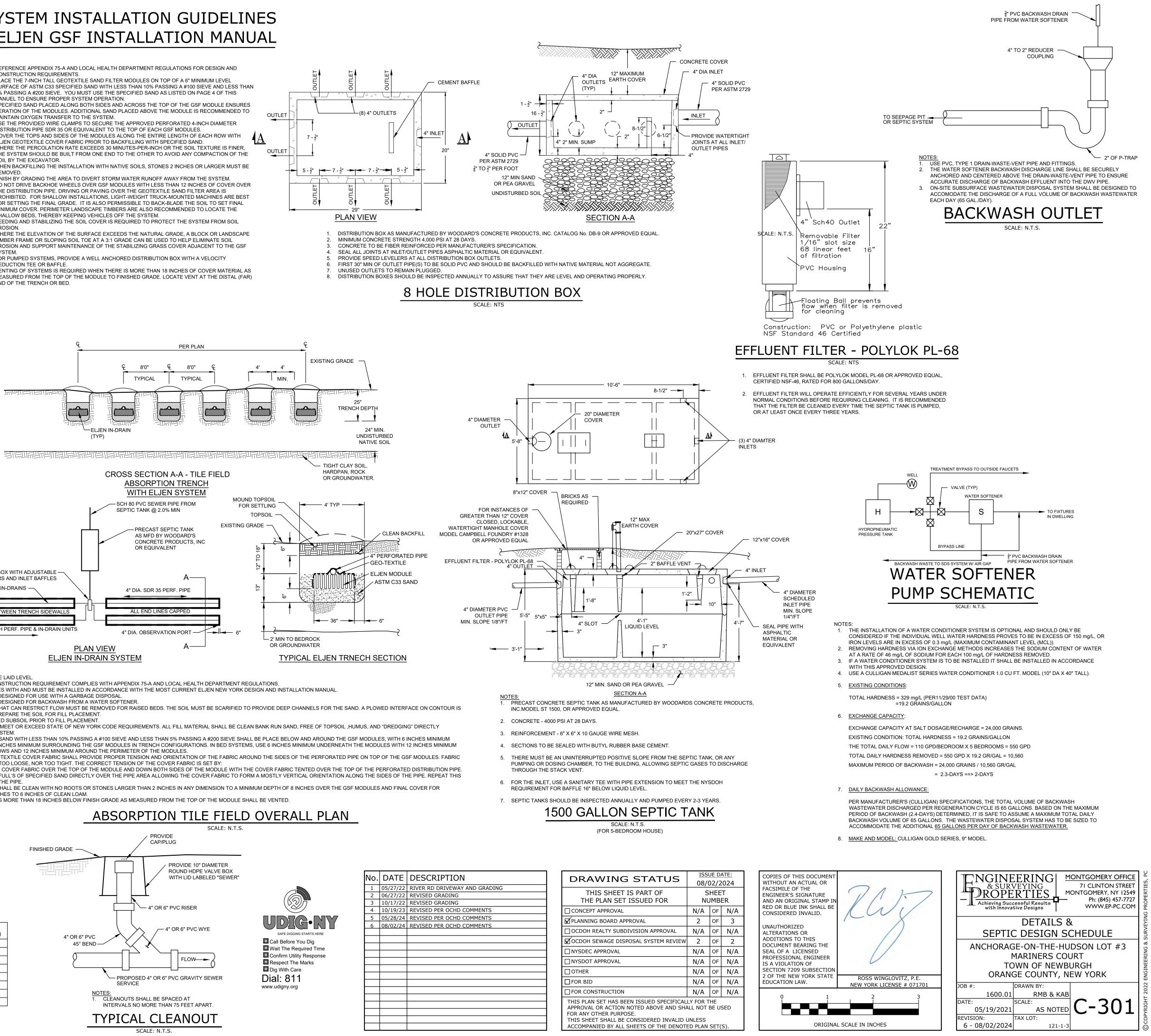
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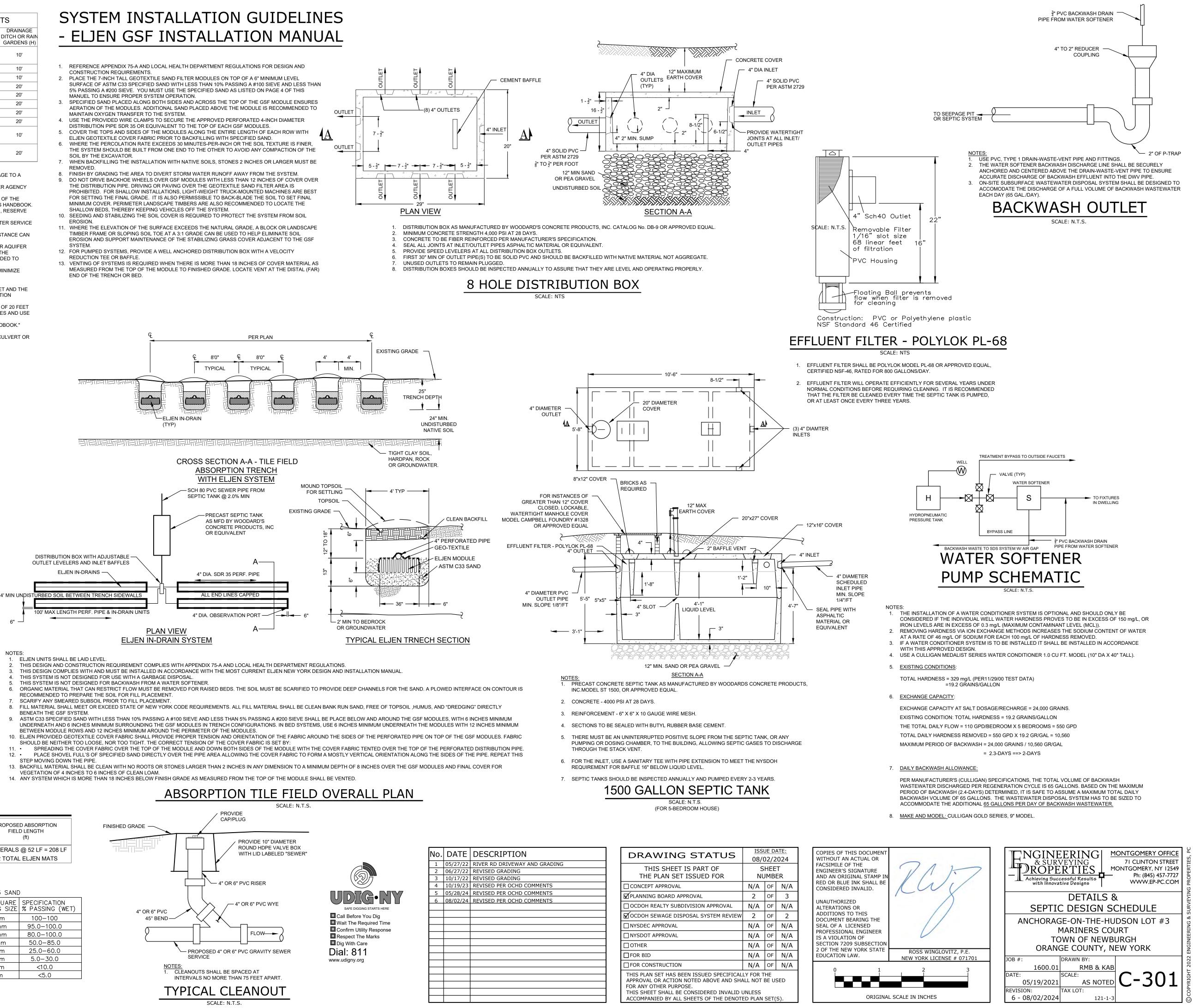
ASTM	C33	SAND

SIEVE SIZE	SIEVE SQUARE OPENNING SIZE	SPECIFICATION % PASSING (WET)
0.375 INCH	9.5mm	100–100
NO. 4	4.75mm	95.0-100.0
NO. 8	2.36mm	80.0-100.0
NO. 16	1.18mm	50.0-85.0
NO. 30	600um	25.0-60.0
NO. 50	300um	5.0-30.0
NO. 100	150um	<10.0
NO. 200	75um	<5.0

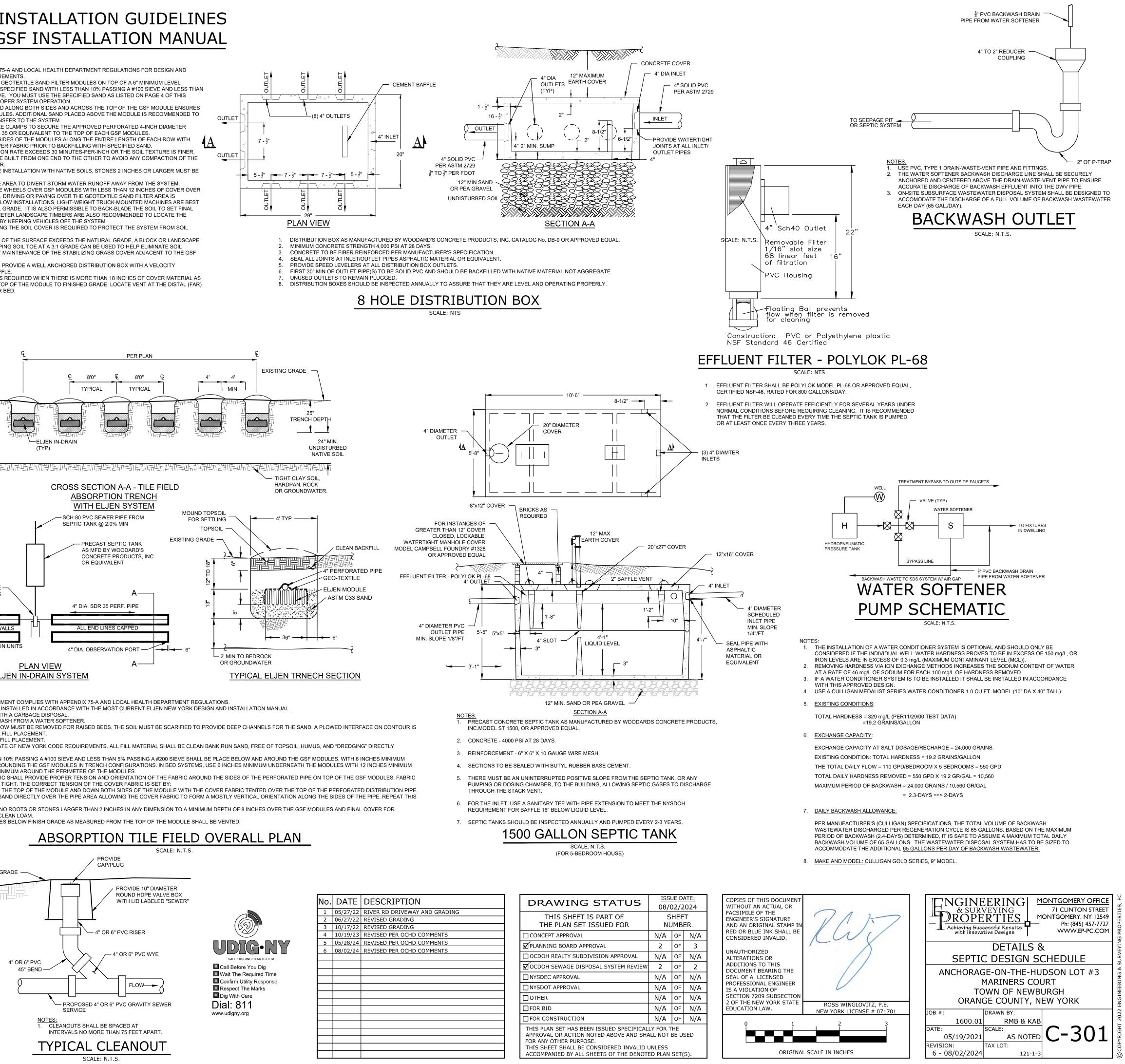
- CONSTRUCTION REQUIREMENTS.

- REMOVED.
- EROSION
- SYSTEM.
- REDUCTION TEE OR BAFFLE. END OF THE TRENCH OR BED.





- ELJEN UNITS SHALL BE LAID LEVEL.
- RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT
- SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT
- BENEATH THE GSF SYSTEM
- STEP MOVING DOWN THE PIPE VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM



Plot Plan— Driveway Grading.dwg Date Printed: Aug 02, 2024, 3:33pm

LID UNLESS	
NOTED PLAN SET(S).	