

WASTEWATER TREATMENT SYSTEM DESIGN TABLE AND NOTES						
DESIGN PERC. RATE (MIN.)	SYSTEM DESIGN FLOW (GPD)	SEPTIC TANK (GAL.)	LF TILE REQUIRED (FT)	LENGTH OF LATERALS (FT)	No. OF LATERALS	LF TILE PROVIDED (FT)
46-60 MIN/INCH	75 GPD	1,000	188	60	10	240

INVERT @ BUILDING	SEPTIC TANK		DISTRIBUTION BOX		INVERT IN @ BEGINNING OF LEACH LINE*	LENGTH OF LEACH LINE	PIPE DROP ACROSS SYSTEM
	IN	OUT	IN	OUT			
723.5	723.3	723.1	721.8	721.6	① 721.5	60'	-0.2
	OIL/WATER SEPARATOR				② 721.0	60'	-0.2
	IN	OUT			③ 720.5	60'	-0.2
	723.7	723.5			④ 720.0	60'	-0.2

SOIL DATA		
DEEP HOLE RESULTS		
TEST PIT SYMBOL -	PERCOLATION TESTS - SYMBOL -	
0-6" TOPSOIL	1	26, 48, 49, 50 MIN
6-48" RED CLAY	2	20, 45, 52, 54 MIN

- PERCOLATION HOLES 12" DEEP
- PERCOLATION HOLES CONDUCTED BY B.MARKS ON 3/12/20
- DEEP HOLE OBSERVATION CONDUCTED BY B.MARKS ON 3/12/20
- NO BEDROCK, NO SEEPAGE, NO MOTTLING.

WASTEWATER TREATMENT BASIS OF DESIGN:

NYS DEC DESIGN STANDARDS FOR INTERMEDIATE SIZE WASTEWATER TREATMENT SYSTEMS

TABLE B-2 - SEPARATION DISTANCE
TABLE B-3 - OFFICE BUILDING

ALL MINIMUMS MET
15 GPD/PER EMPLOYEE
MAX EMPLOYEE - 5
MAX DESIGN FLOW (Q) = 75 GPD

CHAPTER "E" - STANDARD SUB-SURFACE TREATMENT AND DISPOSAL VIA CONVENTIONAL SOIL BASED TREATMENT SYSTEM.
TABLE E-1 - APPLICATION RATE

0.2 GAL/SF/DAY
(Q)/0.2 GAL/SF/DAY= 375 SF
375 SF DISPERSAL REQ'D
375 SF / 2 SF PER FOOT OF TRENCH = 188 LF
188 LF OF LEACH REQUIRED.

PROPOSED TREATMENT METHOD:
PROPOSED RAISED FILL SYSTEM WITH 240 FEET OF LINEAR FEET OF LOW PROFILE CHAMBERS FOR TREATMENT & DISPERSAL WHERE 188 FEET IS REQUIRED.

SEPTIC SPECIFICATION LEGEND:

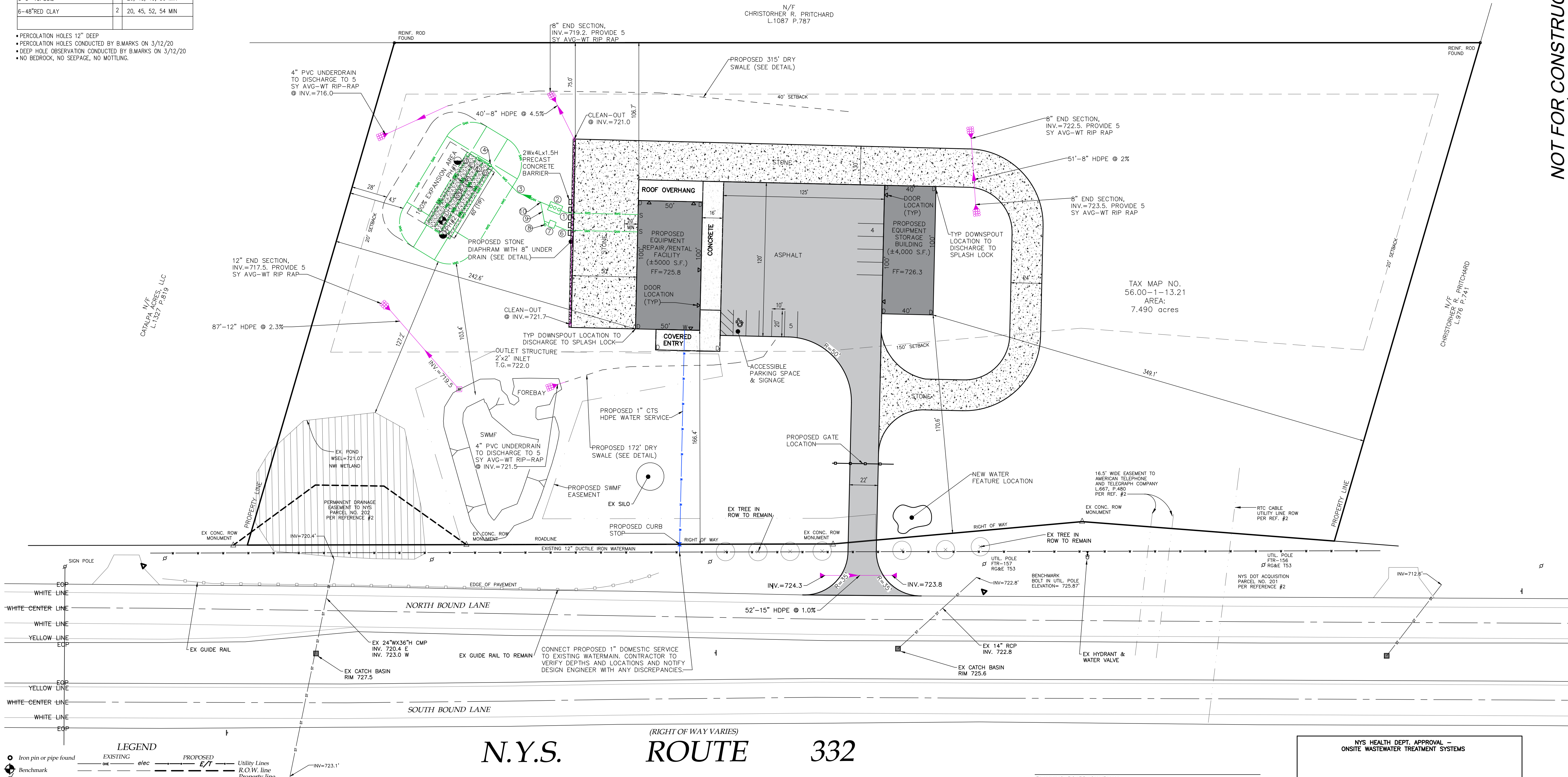
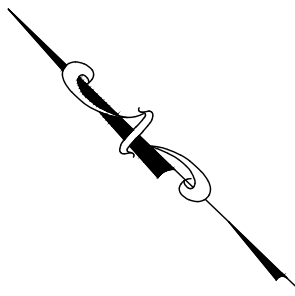
ALL STRUCTURES, PIPING AND OTHER COMPONENTS TO COMPLY WITH THE NYSDEC DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTE WATER TREATMENT SYSTEM REQUIREMENTS

- BUILDING TO SEPTIC TANK - 60'-4" SCH. 40 PVC @ 1/4" PER FT. MINIMUM, INSTALLED ON A COMPACTED 4" CRUSHED STONE OR SAND BASE.
- SEPTIC TANK SHALL BE A KISTNER PRODUCTS CONCRETE TANK OR EQUAL. THE TANK SHALL BE DUAL COMPARTMENT WITH A CAPACITY OF 1250 GALLONS WITH A MINIMUM LIQUID SURFACE AREA OF 34 SQ. FT. FOR THE WWTS DESIGN FOR THE PROPOSED SITE.
- SEPTIC TANK TO DISTRIBUTION BOX - 102'-4" SCH. 40 PVC AND LAID @ 1/8" PER FT. MINIMUM, INSTALLED ON A COMPACTED 4" CRUSHED STONE OR SAND BASE.
- DISTRIBUTION BOX SHALL BE A 8 OUTLET MINIMUM, KISTNER PRECAST CONCRETE BOX OR EQUAL AND INSTALLED PER DETAIL. HEADER PIPES FROM THE DISTRIBUTION BOX TO PERFORATED DISTRIBUTION LINES SHALL BE SOLID 4" PVC (MINIMUM 3000 LBS CRUSH STRENGTH) @ 1/32" PER FT. MINIMUM. HEADER PIPES SHALL HAVE SLOPE LEVELERS INSTALLED IN THE DISTRIBUTION BOX TO FACILITATE EQUAL DISTRIBUTION OF SEPTIC TANK EFFLUENT.
- PROPOSED RAISED FILL SYSTEM WITH 356" PREFERRED FILL MATERIAL OF SAND OR SANDY LOAM WITH A PERCOLATION RATE OF 5-10 MIN. FILL SHALL BE PLACED WITHIN THE BASAL AREA PLUS MINIMUM 20' TAPER. PLOW EXISTING SOIL PRIOR TO PLACEMENT OF FILL. ENGINEER SHALL INSPECT PRIOR TO AND AFTER FILL IS PLACED. INSTALL NEW LEACH LINES IN FILL MATERIAL FILL SHALL BE COVERED WITH A MIN 4" TOPSOIL SEED AND MULCH AND MAINTAIN AS LAWN. LENGTH AND QUANTITY PER WASTEWATER DESIGN TABLE SIZING AND INVERTS.

- BUILDING TO OIL/WATER SEPARATOR - 68'-4" SCH. 40 PVC @ 1/4" PER FT. MINIMUM, INSTALLED ON A COMPACTED 4" CRUSHED STONE OR SAND BASE.
- OIL/WATER SEPARATOR SHALL BE KISTNER PRODUCTS CONCRETE TANK OR EQUAL WITH CAPACITY OF 500 GALLONS.
- PROVIDE CLEANOUT AT INV.=723.55
- OIL/WATER SEPARATOR TO SEPTIC LATERAL - 24'-4" SCH. 40 PVC AND LAID @ 1/4" PER FT MINIMUM, INSTALLED ON A COMPACTED 4" CRUSHED STONE OR SAND BASE.
- CONNECT 4" PVC PIPES AT INV.=723.0

SEPTIC CONSTRUCTION PROCEDURES:

- HEAVY CONSTRUCTION EQUIPMENT SHALL NOT BE ALLOWED WITH IN THE AREA OF THE SYSTEM. THE ORIGINAL SOIL MUST BE LEFT IN PLACE. THE SOIL MUST NOT BE WET DURING WWTS INSTALLATION.
- NO STANDING WATER IN THE WWTS AREA IS ALLOWED.
- EXCAVATED TRENCH MATERIAL MUST BE PLACED ON THE EDGE OF THE TRENCHES AND PUSHED INTO PLACE BY A BULLDOZER OR TRACKED MACHINE WHILE MAINTAINING AT LEAST SIX (6) INCHES OF FILL UNDER THE TRACKS.
- THE ABSORPTION TRENCHES SHALL BE CONSTRUCTED IN THE INSITU MATERIAL.
- THE ENTIRE SURFACE OF THE SYSTEM, SHALL BE PROVIDED / COVERED WITH A MINIMUM OF SIX (6) INCHES OF TOPSOIL MOUND TO ENHANCE RUNOFF FROM THE SYSTEM AND SEED TO GRASS.
- SWALES SHALL BE CONSTRUCTED TO DIVERT SURFACE WATER AROUND THE SYSTEM AND PROVIDE DRAINAGE AWAY FROM THE SYSTEM.



LEGEND

EXISTING *ele* PROPOSED *E/T*

Utility Lines
R.O.W. line
Property line
Easement line
Centerline
Drainage
Fence Line
Contour Line

ABBREVIATIONS:
EX-EXISTING
COP-CORRUGATED POLYETHYLENE PIPE
O.C.-ON CENTER
SICP-SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
UG-UNDERGROUND
CONC-CONCRETE

CO-CLEAN OUT
TYP-TYPICAL
R-RADIUS
BC-BOTTOM OF CURB
TC-TOP OF CURB
TW-TOP OF WALL
BW-BOTTOM OF WALL
BS-BOTTOM OF STAIRS

PERF-PERFORATED
MIN-MINIMUM
MAX-MAXIMUM
INV-INVERT
CB-CATCH BASIN
MH-MANHOLE
DI-DRAINAGE INLET

Iron pin or pipe found
Benchmark
Utility pole
Hydrant
Light pole

PERC TEST
DEEP HOLE

N.Y.S. ROUTE 332

1 SITE LAYOUT AND UTILITY PLAN

1"=40'

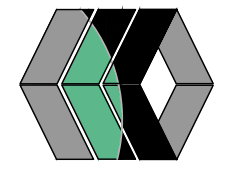
SEE SHEET G001 FOR SITE & UTILITY NOTES

PLANNING BOARD CHAIRMAN	DATE
TOWN ENGINEER	DATE
WATER SUPERINTENDENT	DATE

NYS HEALTH DEPT. APPROVAL -
ON-SITE WASTEWATER TREATMENT SYSTEMS

NOT FOR CONSTRUCTION

MarksEngineering



NO.	DATE	REVISIONS	BY
1	12/6/22	DESCRIPTION OF REVISION	JWJ

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1	12/6/22	DESCRIPTION OF REVISION	JWJ

NEW COMMERCIAL SITE PLANS PREPARED FOR:
DIVERSIFIED EQUIPMENT, LLC
NEW LAWN & GARDEN EQUIPMENT REPAIR/RENTAL FACILITY AND EQUIPMENT STORAGE BUILDING
SHOWING LAND IN:
1947 STATE ROUTE 332
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE: SITE PLAN	
DRAWN BY:	JWJ
DESIGNED BY:	JWJ
CHECKED BY:	BAM
SCALE:	1"=40'
JOB NO.:	22-210
DATE:	10/26/2022
TAX MAP#:	56.00-1-13.21

C100