

## LOCATION PLAN

## SEPTIC SYSTEM DESIGN DATA

LOT 4 PUMP STATION INFORMATION:  
THE PUMP TANK SHALL BE KISTNER CONCRETE PRODUCTS 1250/550 COMBINATION TANK AND SHALL INCLUDE A RISER TO GRADE WITH BOLTABLE COVER AND A 2" PVC AIR VENT WITH BUG SCREEN. ALL INLET AND OUTLET PIPES SHALL BE WATERTIGHT. THE TANK IS SIZED FOR A MINIMUM 1 DAY STORAGE OF WASTEWATER FLOWS ABOVE THE HIGH WATER ALARM LEVEL.

THE PUMP SHALL BE ITT GOULD'S MODEL PE31 0.33 HP WITH THE PUMP CAPABLE OF PUMPING 10-12 GPM AGAINST 21 FEET OF TDH. THE PUMP SHALL INCLUDE A VERTICAL CHECK VALVE AND A QUICK DISCONNECT FITTING ON THE DISCHARGE LINE. THE PUMP SHALL BE REMOVABLE FROM THE CHAMBER WITH A CHAIN ATTACHED TO THE UNDERSIDE OF THE CHAMBER. SEE PUMP OPERATING LEVEL INFORMATION FOR FLOAT SETTINGS.

PUMP OPERATION SHALL BE AUTOMATICALLY CONTROLLED WITH A DIGITAL PRESSURE TRANSDUCER. SET FOR HIGH WATER ALARM, PUMP ON AND PUMP OFF.

THE FOREMAIN SHALL BE 2" SDR 11 HDPE LAID AS LEVEL AS POSSIBLE WITH A SLIGHT UPHILL GRADE TO THE DISTRIBUTION BOX WITH A MINIMUM EARTHEN COVER OF 4". INSTALLER SHALL USE MINIMUM 2-INCHES THICK "BLUE BOARD" INSULATION IN ALL AREAS LESS THAN 4' OF COVER.

PUMP ELEVATION INFORMATION  
RIM 851.00  
INVERT IN 850.00  
HIGH WATER ALARM 848.50  
PUMP OFF 847.25  
PUMP ON 846.25  
BOTTOM 846.00

NYS DOH APP 75A DOSE VOLUME CALCULATION  
PUMP STATION ACTIVE VOLUME IS 3.5'x6.2'x1.0' = 21.32CF  
75-80% LEACH LINE CAPACITY IS: 3.14x(7/2)"<sup>2</sup> X 300 LF X 0.80 = 21CF

EMERGENCY STORAGE CALCULATION  
STORAGE VOLUME IS: 3.5'x6.2'(727.00-725.50) = 54.25 CF (405 GAL)  
24 HR LOADING IS 390 GAL < 405 GAL OK

THE FOREMAIN SHALL TERMINATE IN A "9WAY DISTRIBUTION BOX" USED FOR FLOW EQUALIZATION. THE FIRST LEACH LINE AND THE LATERAL LEADING TO THE DROP BOXES SHALL BE USED. ALL OTHERS TO REMAIN PLUGGED.

DESIGN DATA: BAGAHT SUBDIVISION LOT 4

DEEP HOLE WORK (12/3/21)  
BY SCOTT DEHOLLANDER WITH CANANDAIGUA LAKE WATERSHED INSPECTOR  
0-10 TOPSOIL  
10-39" REDDISH BROWN SILTY LOAM W/ 1-6" GRAVEL DRY (20% BY VOLUME)  
39-48" LIGHT BROWN DRY SILTY LOAM W/ 1-6" GRAVEL DRY (20% BY VOLUME)  
48-78" LIGHT BROWN DRY SILTY LOAM W/ 1-6" GRAVEL (20% BY VOLUME)  
ROOTS TO 44"  
NO SEEPAGE  
NO ROCK

PERC TEST RESULTS (12/3/20)  
BY SCOTT DEHOLLANDER WITH CANANDAIGUA LAKE WATERSHED INSPECTOR  
TEST HOLE DEPTH RATE FOR 1" DROP (STABILIZED)  
P.H. SOUTH 22" 10 MIN.  
P.H. NORTH 22" 5 MIN.

DESIGN DATA - CONVENTIONAL SYSTEM  
TRENCH LENGTH IS BASED ON THE PERC RATE OF THE SUBSOIL  
DESIGN APPLICATION = 0.90 GAL/SF (8 TO 10 MINS - NYSDOH TABLE 6)

EXAMPLE DESIGN FLOW CALCULATIONS  
4 BEDROOM DESIGN = 520 GPD (130 GPD/BEDROOM UTILIZED)  
Q = APPLICATION RATE = 0.90 GPD/SQ.FT.  
Q = FOUR BEDROOM DESIGN = 520 GPD;  
A = REQUIRED ABSORPTION AREA;  
A = Q / Qr; A = 520 GPD / 0.90 GPD/SF; A = 580 SQ.FT.  
L = A / 2 FT.; L = 580 SQ.FT. / 2 FT.; L = 290 LIN.FT.  
\* INSTALL FIVE (5) - 60 FOOT LINES = 300 LIN.FT. WITH 1,250 GAL SEPTIC TANK

NOTE: CONSTRUCT A "SHALLOW ABSORPTION TRENCH" INSTALL TRENCH BOT OF LINE 1 AT 22" DEPTH. THE USE OF DROP BOXES IS REQUIRED ON THIS SYSTEM.

## SEPTIC SYSTEM CERTIFICATION

I, SCOTT W. DEHOLLANDER, CERTIFY TO THE NEW YORK STATE DEPARTMENT OF HEALTH THAT THE SOIL PERCOLATION AND DEEP HOLE TESTS DATA SHOWN HEREON WAS OBTAINED BY A QUALIFIED REPRESENTATIVE OF OUR FIRM WHO HAS BEEN PROPERLY TRAINED TO PERFORM AND RECORD THESE TESTS IN ACCORDANCE WITH THE METHODOLOGY OUTLINE IN APPENDIX 75-A (12/1/20) IN THE NEW YORK STATE DEPARTMENT OF HEALTH DESIGN STANDARDS. THE TESTS ACCURATELY REPRESENT THE SOIL CONDITIONS ON THE PROPOSED SITE.  
THE PROPOSED SUBSURFACE SEWAGE DISPOSAL SYSTEM(S) HAS (HAVE) BEEN DESIGNED BASED ON THE FIELD TEST DATA AND IS IN STRICT COMPLIANCE WITH NEW YORK STATE DEPARTMENT OF HEALTH INDIVIDUAL HOUSEHOLD SYSTEMS HANDBOOK REFERENCED ABOVE.

SIGNATURE/DATE

NOTES:

- THE SOILS INFORMATION PROVIDED ON THIS PLAN MAY NOT BE REPRODUCED OR UTILIZED IN ANY WAY FOR PURPOSES OTHER THAN THE CURRENT ACTION AS REPRESENTED BY SCOTT DEHOLLANDER P.E.
- ANY INSTALLED SYSTEM MUST BE COMPLETELY BACK-FILLED AND ROUGH GRADED WITHIN 24 HOURS OF INSPECTION AND ACCEPTABILITY BY THE DESIGN ENGINEER.
- NO SUBSURFACE DISPOSAL SYSTEM WILL BE INSTALLED UNDER ADVERSE WEATHER CONDITIONS.
- THERE WILL BE NO DRIVING OR PARKING OVER THE AREA OF THE SUBSURFACE DISPOSAL SYSTEM.
- THE AREA OF THE LEACH FIELD SYSTEM WILL BE FINAL GRADED AND SEEDED AS SOON AS POSSIBLE AFTER CONSTRUCTION TO SHED SURFACE WATER

## GENERAL NOTES:

THIS ACTION IS THE PREPARATION OF SITE UTILITIES FOR EXISTING LOTS WITH TAX ACCOUNT NUMBER 126.20-1-17.4 TOTALING APPROXIMATELY 1.54 ACRES IN THE TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK. THE LOT EXCEED ALL OF FOLLOWING MINIMUM REQUIREMENTS OF THE TOWN OF CANANDAIGUA RESIDENTIAL R-1-30 ZONING SCHEDULE II LOT AREA, BULK AND COVERAGE REQUIREMENTS:

THESE LOTS ARE LOCATED IN A TOWN LIMITED DEVELOPMENT OVERLAY DISTRICT  
MINIMUM LOT SIZE 30,000 SF  
MINIMUM LOT DEPTH 125 FEET

MINIMUM BUILDING SETBACKS SHALL BE:  
60 FEET FROM THE FRONT  
25 FEET FROM ALL SIDES  
40 FEET FROM THE REAR PROPERTY LINE

THIS SITE PLAN ADDRESSES THE SITE ACCESS, UTILITY AND GRADING ASPECTS OF THE PROJECT. SEE FINAL PLAT "BAGAHT SUBDIVISION" PREPARED FOR PARCEL BOUNDARY INFORMATION.

DATUM INFORMATION  
ALL ELEVATION INFORMATION SHOWN ON THIS PLAN WAS OBTAINED DURING A TOPOGRAPHICAL SURVEY ON AUGUST 2ND 2021 BY GREEN SURVEYING USING GPS METHODS. ELEVATIONS REPRESENT NAD 83.

CONSTRUCTION SHALL CONFORM TO THE TOWN OF CANANDAIGUA STANDARDS.

THE PROPOSED LOTS WILL BE SERVED POTABLE WATER FROM A CONNECTION TO THE EXISTING MUNICIPAL WATER MAIN LOCATED ALONG WEST LAKE ROAD. THE LOTS ARE LOCATED WITHIN THE EXISTING "WD247" TOWN WATER DISTRICT.

THE SUBJECT SITE IS LOCATED WITHIN A ZONE C AREA ACCORDING TO FEMA COMMUNITY PANEL NUMBER 360607 PANEL NO. 0015B, DATED JUNE 1, 1978. AREAS LOCATED IN ZONE C ARE NOT LOCATED WITHIN FLOOD PLAIN AND ARE SUBJECT TO MINIMAL FLOODING.

THE ONTARIO COUNTY SOILS REPORT INDICATES THAT THE SITE SOILS ARE AN ARKPORT TYPE SOILS HAVING A UNIFIED SOILS CLASSIFICATION OF ML AND SM AT THE BUILDINGS PROPOSED FOOTING DEPTH. ACCORDING TO TABLE R401.4.1 OF THE RESIDENTIAL CODE OF NEW YORK STATE THE LOWEST PRESUMPTIVE BEARING CAPACITIES OF THESE SOILS IS 1,500 PSF.

THE DEVELOPMENT AREA IS CLEAR OF ALL MAPPED NYSDEC AND ACOE WETLANDS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY SAFETY PRECAUTIONS AS REQUIRED DURING CONSTRUCTION

THE CONTRACTOR SHALL CONTACT THE UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION (UFGO), AT LEAST TWO (2) DAYS BUT NOT MORE THAN TEN (10) DAYS PRIOR TO COMMENCING ANY WORK INCLUDING EXCAVATING, DRILLING, ETC. THE PHONE NUMBER FOR UFGO IS (800) 962-7962.

ALL WORK IS SUBJECT TO TO OSHA REQUIREMENTS INCLUDING BUT NOT LIMITED TO EXCAVATION WALL SUPPORTING SYSTEMS, APPROPRIATE GEAR, AND EQUIPMENT AND A COMPETENT SUPERVISORY PERSON ON SITE AT ALL TIMES (29 CFR PART 1926 SUBPART F.)

THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES IN THE WORK AREA PRIOR TO BEGINNING ANY WORK.

THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ALL SERVICES AND OR UTILITY MAINS DAMAGED AS A RESULT OF WORK UNDER THIS PROPOSED ACTION.

THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR PATCHING AND REPAIRING ANY EXISTING MATERIALS AND OR FINISHES DISTURBED BY THE INSTALLATION OF NEW WORK. PATCHING OR REPAIRING SHALL MATCH ADJACENT EXISTING FINISHES.

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE ENGINEER TO RECEIVE CLARIFICATIONS OF THE PROPOSED WORK. COMPLIANCE WITH REQUIRED CONSTRUCTION STANDARDS AND PRACTICES ARE THE CONTRACTORS RESPONSIBILITY AND MAY NOT BE FULLY DETAILED ON THE PLAN.

NORTH IS ILLUSTRATED FOR PLAN SHEET CONVENIENCE AND NOT REPRESENTATIVE OF MAGNETIC NORTH.

ALL WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 10" HORIZONTAL SEPARATION FROM ALL SEWER LATERALS AND FACILITIES.

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW 7209.2 FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THESE PLANS IN ANY WAY. IF ALTERED, THE PERSON WHO ALTERED THE PLANS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK EDUCATION LAW 7209.2

ALL DOWNSPOUTS SHALL DISCHARGE TO SPLASH BLOCKS.

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SIGNATURE/DATE

Slopes Table			
Number	Minimum Slope	Maximum Slope	Color
1	0.0%	15.00%	NONE
2	15.00%	25.00%	
3	25.00%	100.00%	

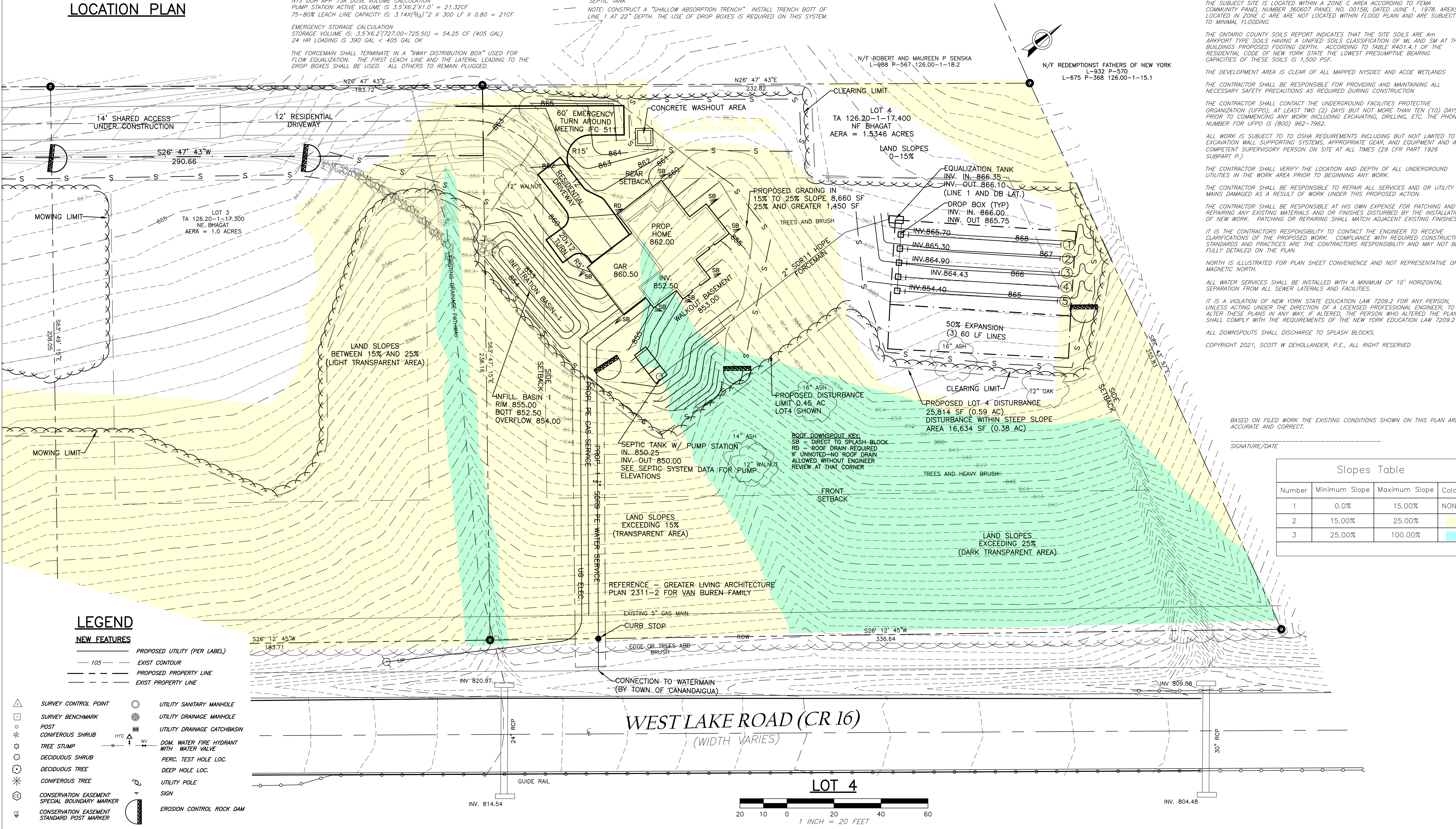
## LEGEND

### NEW FEATURES

105 PROPOSED UTILITY (PER LABEL)  
EXIST CONTOUR  
PROPOSED PROPERTY LINE  
EXIST PROPERTY LINE

SURVEY CONTROL POINT  
SURVEY BENCHMARK  
POST  
CONFEROUS SHRUB  
TREE STUMP  
DECIDUOUS SHRUB  
DECIDUOUS TREE  
CONFEROUS TREE  
CONSERVATION EASEMENT  
SPECIAL BOUNDARY MARKER  
CONSERVATION EASEMENT  
STANDARD POST MARKER

UTILITY SANITARY MANHOLE  
UTILITY DRAINAGE MANHOLE  
UTILITY DRAINAGE CATCHBASIN  
DOM. WATER FIRE HYDRANT WITH WATER VALVE  
PERC. TEST HOLE LOC.  
DEEP HOLE LOC.  
UTILITY POLE  
SIGN  
EROSION CONTROL ROCK DAM



DEHOLLANDER DESIGN  
PRACTICING DESIGN DRIVEN DEVELOPMENT  
7346 Dryer Road Victor, New York  
Phone (585) 259-9609

NO. REVISIONS BY DATE  
1 10/13/21 PRC SWD 10/15  
2 11/11/21 MRB COM SWD 11/12

### PLAN APPROVALS

SIGNATURE  
TOWN PLANNING BOARD CHAIRPERSON

SIGNATURE  
TOWN ENGINEER

PROJECT NAME:  
**DEHOLLANDER SITE PLAN**  
TOWN OF CANANDAIGUA  
ONTARIO COUNTY, NEW YORK

PROPERTY OWNER:  
PROPERTY OF  
**DEHOLLANDER DESIGN INC.**  
7346 DRYER ROAD, VICTOR  
ONTARIO COUNTY, NEW YORK

DRAWING TITLE:  
**FINAL APPLICATION  
LOT 4  
SITE AND UTILITY PLAN**

SCALE: AS NOTED	DES. BY: S. DEHOLLANDER DRN. BY: CADD
PROJECT NO. 000121	CHECKED BY: DATE: 6/2021
SHEET NO. 1	