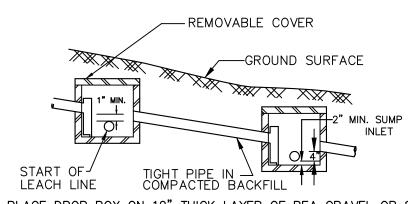


## GENERAL & UTILITY NOTES

- SAFE AND CONTINUOUS TRAFFIC AND INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE AND PUBLIC ROADS SHALL BE MAINTAINED THROUGH THE PERIOD OF CONSTRUCTION.
- ALL CONSTRUCTION RELATED TO THIS PROJECT SHALL BE IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR SHALL OBTAIN ALL APPROPRIATE PERMITS BEFORE BEGINNING ANY CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO NOTIFY CENTRAL STAKEOUT, TELEPHONE NO. 1-800-962-7962 (811) FOR FIELD STAKEOUT OF
- UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. THE PROPOSED WATER APPURTENANCES SHALL CONFORM TO THE
- THE LOCAL WATER AUTHORITY'S STANDARDS. ALL WATER AND WASTEWATER APPURTENANCES SHALL CONFORM TO
- NYS HEALTH DEPARTMENT STANDARDS. THE CONTRACTOR SHALL PROVIDE FOR EROSION CONTROL BARRIERS DURING CONSTRUCTION AND FOR THE REMOVAL OF THE SAME AFTER
- GRADING AND SEEDING HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE REQUIRED TO CLEAN MUD AND DEBRIS FROM PUBLIC ROADS SERVICING THE CONSTRUCTION SITE DURING
- AND AFTER THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY AGENCIES PRIOR TO ANY EXCAVATING AND

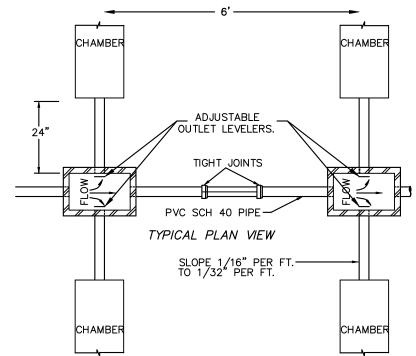
REQUEST SUCH UTILITY TO STAKE OUT WATER, GAS, ELECTRIC, AND/OR

- BURIED TELEPHONE LINES OR CABLES. ALL UTILITIES MUST BE BORED ACROSS THE COUNTY HIGHWAY.
- "OPEN CUT" OF THE HIGHWAY IS NOT PERMITTED THE CONTRACTOR SHALL USE DUE CAUTION IN PROTECTING PROPERTY MARKERS AND ALL ELEVATION SURVEY STAKES.
- THE ACCURACY OF EXISTING UTILITIES ARE NOT GUARANTEED EXISTING UTILITIES SHOWN ON THE PLANS ARE A RESULT OF THE BEST INFORMATION THAT COULD BE OBTAINED FROM FIELD SURVEYS AND RECORD MAPS AND ARE FOR GENERAL INFORMATION ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ALL PERTINENT UTILITIES BY FIELD INVESTIGATION. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY MEASURES TO PRESERVE AND PROTECT EXISTING UTILITES.
- ALL ELECTRICAL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL NEC AND UL ELECTRICAL CODES

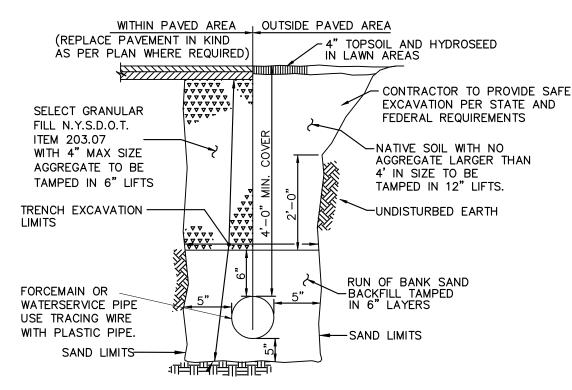


PLACE DROP BOX ON 12" THICK LAYER OF PEA GRAVEL OR SAND

### TYPICAL PROFILE VIEW



TYPICAL DROP BOX SYSTEM DETAIL



FORCEMAIN TRENCH DETAIL N.T.S.

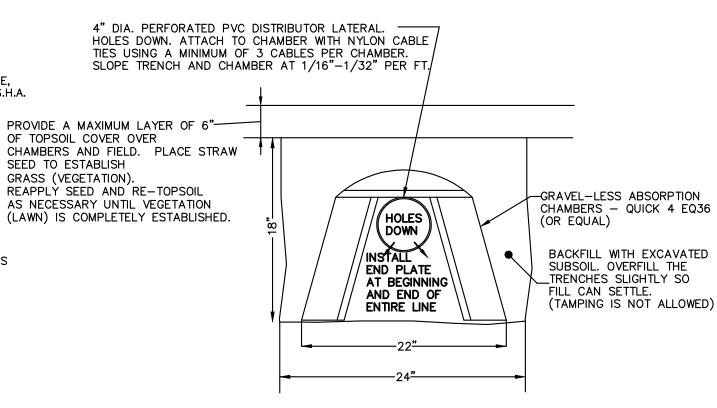
NOT FOR CONSTRUCTION

THIS PLAN HAS NOT RECEIVED FINAL APPROVAL FROM ALL REVIEWING AGENCIES. IT IS SUBJECT TO REVISIONS AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL THIS NOTE IS REMOVED.

**DRAWING ALTERATION** 

THE FOLLOWING IS AN EXCERPT FROM THE NEW YORK EDUCATION LAW, ARTICLE 145, SECTION 7209, AND APPLIES TO THIS DRAWING: "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ENGINEER OR LAND SURVEYOR IS ALTERED, THE ALTERING ENGINEER OR LAND SURVEYOR SHALL AFFIX TO THE ITEM, HIS SEAL AND THE NOTATION "ALTERED BY", FOLLOWED BY HIS SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION. COPYRIGHT 2017 BY PROFESSIONAL ENGINEERING SERVICES/GROUP

- 14. ALL WATERMAINS AND SERVICES SHALL HAVE A MINIMUM OF 5' (FEET) OF COVER FROM THE TOP OF THE MAIN TO THE FINISHED GRADE. T CONTRACTOR SHALL CHECK ALL CUT STAKES BEFORE TRENCHING TO INSURE THAT ALL INSTALLED WATERMAINS WILL HAVE THE REQUIRED COVER.
  - THE CONTRACTOR SHALL COMPLY WITH THE NEW YORK STATE INDUSTRIAL CODE, RULE 23, SUBPART 23-4 "EXCAVATION OPERATIONS" AND ALL APPLICABLE O.S.H.A. REQUIREMENTS SO AS TO PROVIDE SAFE EXCAVATION PROCEDURES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO TEMPORARILY SUPPORT AND MAINTAIN OTHER UTILITIES AS REQUIRED.
- ALL TRAFFIC MAINTENANCE INCLUDING SIGNS, BARRICADES, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC
- 18. PROPOSED SLOPES SHALL NOT EXCEED 1 ON 3 EXCEPT WHERE NOTED.
- THE CONTRACTOR SHALL READ AND BECOME COMPLETELY FAMILIAR WITH THE APPROVED DESIGN PLANS. SHOULD THE CONTRACTOR HAVE ANY QUESTIONS CONCERNING THE PROJECT DESIGN, CONTACT THE DESIGN ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- MINIMUM SEPARATION BETWEEN WATERMAIN AND SEWER MAINS TO BE 18" VERTICALLY MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAINS AND SEWER MAINS/SERVICES TO BE 10' (FEET) MEASURED FROM THE OUTSIDE OF THE PIPES. IF A CROSSING SHOULD OCCUR ONE FULL LENGTH OF THE SEWER SHALL BE CENTERED UNDER OR OVER THE WATERMAIN SO THAT BOTH THE JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATERMAIN CROSSES UNDER A SEWER ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECT FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT SETTLING.



PER TESTING, MINIMUM TRENCH DEPTH IN NATIVE SOIL TO BE 24"

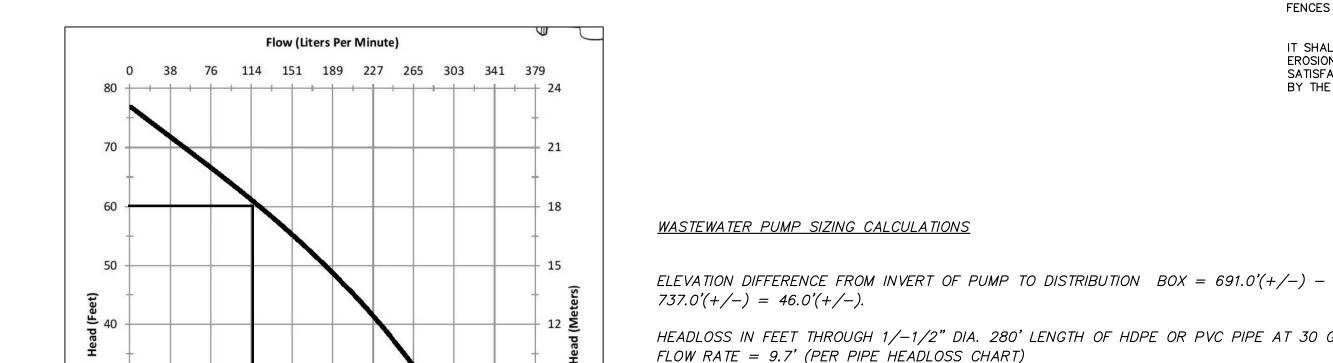
<u>ABSORPTION TRENCH SECTION DETAIL</u> N.T.S.

WASTEWATER PUMP SIZING CALCULATIONS

ESTIMATED HEADLOSS THROUGH FITTINGS = 5'

PER CHART, FLOW RATE WILL WORK AT 30 GPM.

TOTAL HEADLOSS AT 35 GPM DOSE = 46+9.7+5=60.7



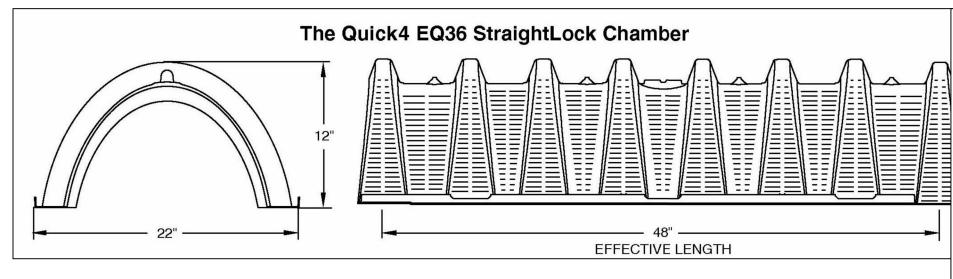
LIBERTY 3/4 HP FL70 PUMP SPECS

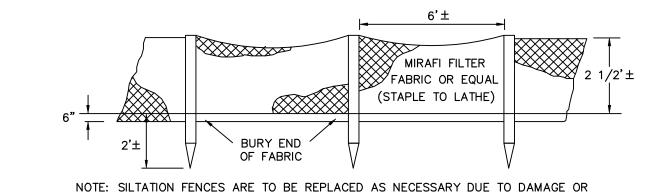
0 10 20 30 40 50 60 70 80 90 100

Flow (GPM)

## CLWSC WASTEWATER SYSTEM NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE CANANDAIGUA LAKE WATERSHED INSPECTOR PRIOR TO COMMENCING CONSTRUCTION OF THE WASTEWATER SYSTEM.
- 2. A PERPETUAL MAINTENANCE AGREEMENT BETWEEN THE WASTEWATER AERATION SYSTEM MANUFACTURER'S REPRESENTATIVE AND THE OWNER IS REQUIRED. A COPY OF THAT AGREEMENT IS TO BE PROVIDED TO THE CANANDAIGUA LAKE WATERSHED INSPECTOR'S OFFICE.
- 3. THE ABSORPTION SYSTEM AREA (DISPERSAL AREA OR LEACH FIELD) IS, AT MINIMUM, TO BE SEEDED AND MAINTAINED AS A LAWN.
- 4. SURFACE WATER IS TO BE ADEQUATELY CONTROLLED BY ACHIEVING POSITIVE SURFACE GRADING AS SHOWN.
- PERCOLATION TESTING OF THE IMPORTED FILL MATERIAL IS REQUIRED TO CONFIRM THE DESIGN PERCOLATION RATE.
- 6. THE MALFUNCTION ALARMS FOR THE AERATION TREATMENT UNITS AND ALL PUMPS SHALL BE PROVIDED IN A CONSPICUOUS LOCATION WITHIN THE RESIDENCE, SUCH AS THE KITCHEN.
- 7. HOT TUBS MAY NOT CONNECT (DRAIN) TO THE WASTEWATER SYSTEM.
- 8. THE WW SYSTEM MUST BE DESIGNED, SUPERVISED AND CERTIFIED BY A DESIGN PROFESSIONAL
- 9. GARBAGE GRINDERS ARE NOT ALLOWED
- 10. THE AEROBIC TREATMENT UNIT WILL BE EQUIPPED WITH AN APPROPRIATE ALARM SYSTEM AS WILL EACH PUMP IN EACH PUMP STATION.
- 11. THE SERVICE CONTRACT FOR THE AEROBIC TREATMENT UNIT MUST PROVIDE FOR SEMI ANNUAL INSPECTIONS BY AN AUTHORIZED MANUFACTURERS REPRESENTATIVE FOR AS LONG A TIME PERIOD AS THE UNIT IS IN USE. A COPY OF THE SERVICE CONTRACT AND REPORTS FO THE SEMI-ANNUAL INSPECTIONS SHALL BE PROVIDED TO THE OFFICE OF THE CANANDAIGUA LAKE WATERSHED INSPECTOR.
- 12. MULTI-FAUCET ("CAR WASH" STYLE) SHOWERS ARE NOT PERMITTED.





FENCES REGULARLY TO PREVENT EXCESSIVE SOIL BEARING WEIGHT ON THE FENCE IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INITIALIZE

WHEN FILLED WITH SILT. SILT SHALL BE REMOVED FROM IN FRONT OF THE

EROSION CONTROL MEASURES. SILTATION FENCES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE TOWN INSPECTION PERSONNEL AND WILL BE REMOVED BY THE CONTRACTOR ONCE GROUND COVER IS RE-ESTABLISHED.

# SILT FENCE DETAIL

## SEEDING

1. IF SOILS ARE COMPACTED, SCARIFY UPPER TWO INCHES BY BACKBLADING WITH A DOZER, RAKING, OR DISKING

2. IMMEDIATELY SEED WITH THE FOLLOWING MIX: 40 LBS/ACRE ANNUAL RYEGRASS 40 LBS/ACRE PERENNIAL RYEGRASS 40 LBS/ACRE CREEPING RED FESCUE

MOISTURE, PROTECT SOIL FROM EROSION, HOLD SEED IN

3. APPLY STRAW MULCH-STRAW MULCH IS NECESSARY TO HOLD IN PLACE, AND KEEP SOIL TEMPERATURES MORE CONSTANT. 3 BALES PER 1000 SQ. FT.

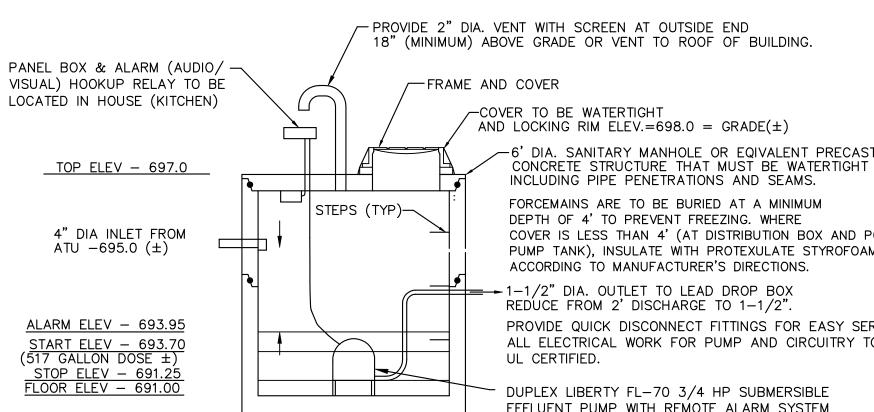
4 LBS/ACRE WHITE CLOVER (INOCULANT)

**DOSING CALCULATION** 

HEADLOSS IN FEET THROUGH 1/-1/2" DIA. 280' LENGTH OF HDPE OR PVC PIPE AT 30 GPM

50% OF 280 LINEAL FEET OF 4" DIA. PVC LINE EQUIVALENT. VOLUME = 792 x PI x 0.333\*\*2/4 x - 7.481 = 517 GALLONS.

USING 6' DIAMETER MANHOLE, EACH VERTICAL FOOT WITHIN THE MANHOLE PROVIDES PI  $\times$  6\*\*2/4  $\times$  1  $\times$  7.481 = 211 GALLONS. 517/211 = 2.45' ELEVATION RISE TO TRIGGER DOSING.



COVER IS LESS THAN 4' (AT DISTRIBUTION BOX AND POSSIBLY PUMP TANK), INSULATE WITH PROTEXULATE STYROFOAM OR EQUAL ACCORDING TO MANUFACTURER'S DIRECTIONS. PROVIDE QUICK DISCONNECT FITTINGS FOR EASY SERVICING. ALL ELECTRICAL WORK FOR PUMP AND CIRCUITRY TO BE

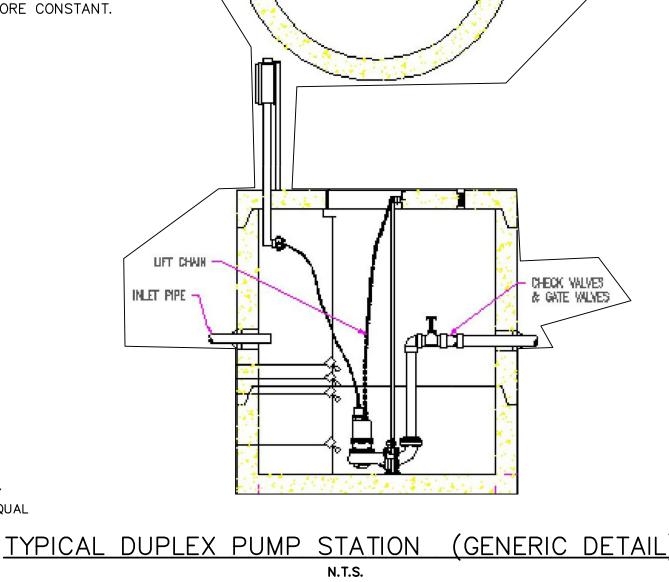
DUPLEX LIBERTY FL-70 3/4 HP SUBMERSIBLE EFFLUENT PUMP WITH REMOTE ALARM SYSTEM AND FLOAT ELEVS AS SHOWN. PROVIDE CHECK VALVE.

PROVIDE CONSTANT SLOPE BACK TO WET WELL FROM HIGH POINT AT LEAD DROP BOX

ALL PENETRATIONS AND SEAMS TO BE WATERTIGHT

## WET WELL AND PUMP DETAIL

N.T.S.



Ontario County Public Works

After Ontario County Department of Public Works approves this project, a §136

Highway Permit will be required. Inspection of all construction in the right-of-way will

All materials installed in the County right-of-way shall be in accordance with the Ontario

Road shall be kept clean of mud and debris at all times. Applicant shall control dust

during construction at project site, borrow areas, spoil areas, and haul roads by applying water or other approved spraying agents to road and disturbed areas.

responsible for all required grading in the County right-of-way. The applicant will place a

culvert and/or storm sewer of a type and size determined by the Ontario County Commissioner of Public Works.

way shall be protected and maintained during construction. Drainage structures, which

are removed during construction, shall not be reset. Drainage structures that are removed

shall be replaced with new materials of the same size and type as the original

construction. Only in special circumstances and after a careful field inspection, Ontario County Commissioner of Public Works or designee may consider allowing drainage

ditches, and ditch backslopes shall be completed within fourteen (14) days of the <u>original disturbance</u>. The applicant shall at all times keep the highway right-of-way free of

debris, obstructions, and hazards of any kind. The applicant shall be responsible for all

necessary grading, seeding and mulching to achieve temporary restoration of the highway right-of-way to the satisfaction of the Ontario County Commissioner of Public Works.

\$3,500 Security Deposit per monument is required. Contact Ontario County Department

County Department of Public Works Standards and Details in effect when installed.

4. Highway drainage along the County highway must be maintained. The applicant will be

5. Drainage structures (culvert pipes, end sections, head walls, etc.) within County right-of-

6. Temporary restoration of the County highway right-of-way, including shoulders, roadside

7. Materials, equipment and vehicles shall not be stored or parked within the County

8. If Ontario County Department of Public Works survey monuments are in the work area a

of Public Works for detailed information at (585) 396-4000.

Ontario County Highway Access Guidelines

NO PRELIMINARY SITE PLAN REVIEW WAS REQUIRED

AS SHOWN

1*72012DT* 

DETAIL SHEET REVISIONS 5019 COUNTY ROAD 16 DESCRIPTION TOWN OF CANANDAIGUA. ONTARIO COUNTY, NEW YORK STATE LS ARCH AND ARCH DRAWINGS **PROFESSIONAL ENGINEERING** 64 STONINGTON DRIVE TTSFORD, NY 14564 HONE:(585) 353-330 7171 VICTOR - PITTSFORD ROAD

VICTOR, NEW YORK 14564 TAX ACCOUNT NO. 154.09-1-20.0 (585) 924-1860 EMAIL: PROENGINEER1@PRODIGY.NE DRAWING NO.: SHEET NO. NGINEER: SURVEYOR:

MARCH 2017

S.A.H