

## CONSTRUCTION CALLOUTS

- 1 - SITE CONTRACTOR TO INSTALL BARRIERS AS REQUIRED TO KEEP THE GENERAL PUBLIC (PEDESTRIAN & VEHICULAR) OUT OF THE CONSTRUCTION AREA.
- 2 - SOIL TESTING LOCATION (TYP.). SEE RESULTS THIS SHEET.
- 3 - PROPERTY LINES TO BE STAKED BY A LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES AT THE SITE AS / IF REQUIRED.
- 4 - PAVE "EMERGENCY ACCESS DRIVEWAY" AREA AS SHOWN. SEE PAVEMENT DETAIL ON SHEET D-1.
- 5 - REMOVE & RELOCATE EXIST. BOULDERS AS SHOWN ON THESE PLANS (TYP.).
- 6 - INSTALL PROP. BOULDERS (3 C.Y. MIN) IN LOCATIONS AS SHOWN AT 8' O.C.
- 7 - SAW-CUT AND TACK COAT EDGES BETWEEN EXIST. / PROPOSED BIT. CONC. PAVEMENT (TYP.).
- 8 - CONTRACTOR TO TAKE OUT ALL NECESSARY ROAD OPENING PERMITS WITH THE TOWN OF CLINTON (TYP.).
- 9 - REMOVE ALL EXIST. TREES, SHRUBS AND BRUSH AS NECESSARY IN-ORDER TO PERFORM THE REQUIRED WORK.
- 10 - LOAM (6" MIN.), SEED AND HAY ALL DISTURBED AREAS AS SOON AS PRACTICAL (TYP.).
- 11 - PROP. SILT FENCE AS / IF REQUIRED (TYP.). SEE DETAIL ON SHEET D-1.
- 12 - STAKED HAYBALES AS / IF REQUIRED (TYP.). SEE DETAIL ON SHEET D-1.
- 13 - PROPOSED LIMIT OF DISTURBANCE / TREE CLEARING (TYP.).
- 14 - FIRE TANK AND APPURTENANCES TO BE STAKED BY A LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- 15 - PROP. FIRE TANKS: TWO (2), 15,000 GAL. PRECAST CONC. TANKS FROM UNITED CONCRETE PRODUCTS, INC. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE TANKS IN ACCORDANCE WITH NFPA SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BLASTING AS / IF REQUIRED. THE TANKS SHALL BE CONNECTED IN SERIES WITH 8" PVC PIPING. ALL PIPING, CONNECTIONS AND MANWAYS ARE TO BE WATERPROOF. SEE FIRE TANK DETAILS AND REQUIREMENTS ON SHEET D-1.

## SOIL TESTING RESULTS:

Soil testing performed by the office of  
Harkin Engineering, LLC (Michael P. Harkin, P.E.)

## DEEP TEST PIT DATA

TEST PIT: #H1 (5/7/21)

0" - 6" Topsoil  
6" - 144" (12') Tan-brn medium coarse sand and gravel

Groundwater @ 132" (11')  
No Ledge  
No Mottles

TEST PIT: #H2 (5/7/21)

0" - 6" Topsoil  
6" - 144" (12') Tan-brn medium coarse sand and gravel

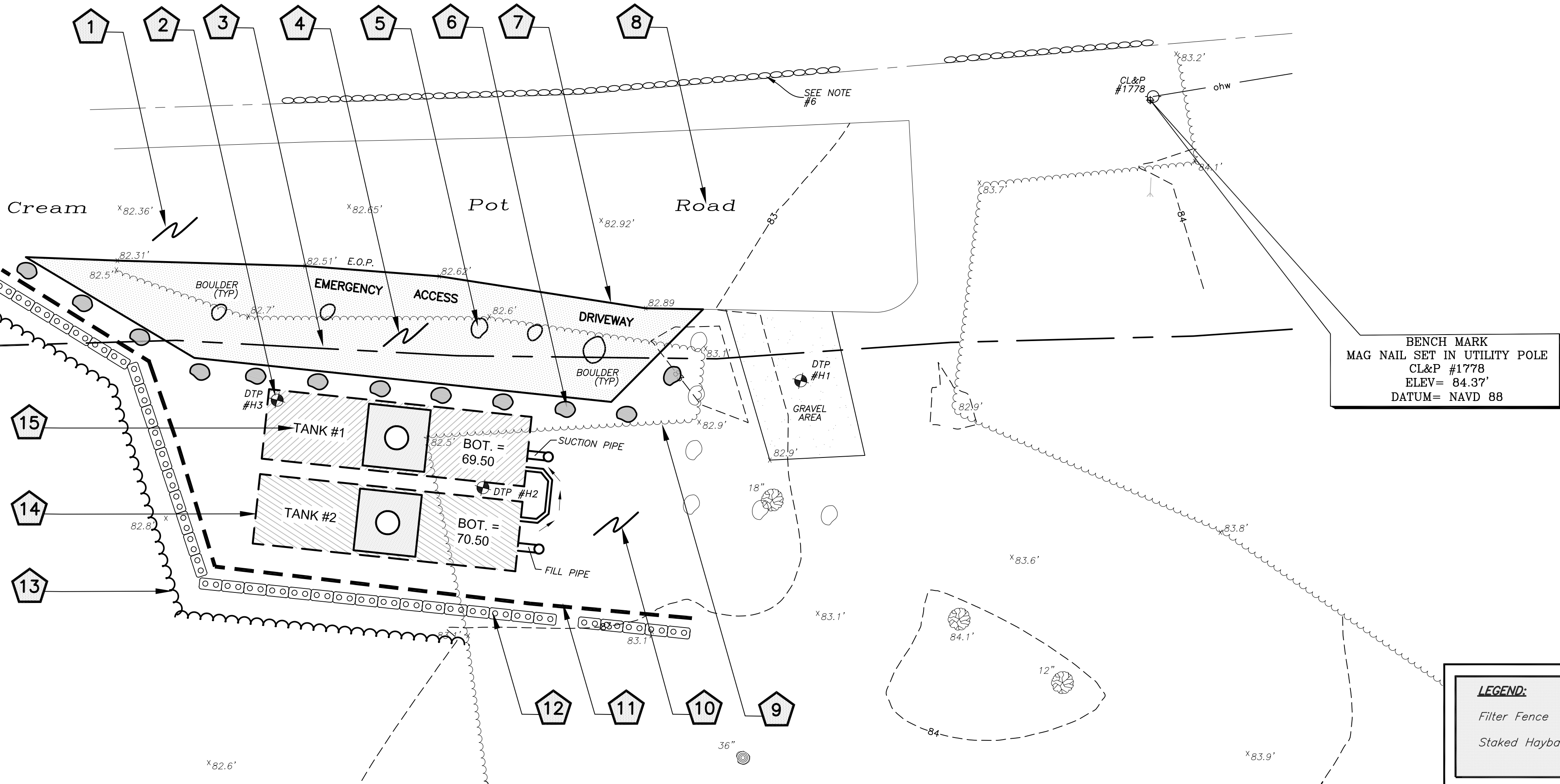
Groundwater @ 132" (11')  
No Ledge  
No Mottles

TEST PIT: #H3 (5/7/21)

0" - 6" Topsoil  
6" - 144" (12') Tan-brn medium coarse sand and gravel

Groundwater @ 120" (10')  
No Ledge  
No Mottles

DESIGN ENGINEER TO REVIEW  
AND MONITOR ALL PHASES  
OF CONSTRUCTION.



## LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
●	PROPERTY CORNER	---	PROPERTY LINE
⊕	BENCH MARK	----	PROPERTY LINE OTHER
○	UTILITY POLE	-----	INDEX CONTOUR
—	GUY WIRE	-----	INTERMEDIATE CONTOUR
⊙	DECIDUOUS TREE	X X X	SPOT ELEVATION
⊙	CONIFEROUS TREE	□	GRAVEL AREA
⊙	STUMP	N/F	NOW OR FORMERLY
⊙	STONEWALL	(TYP)	TYPICAL
—	TREELINE	E.O.P.	EDGE OF PAVEMENT
—	OVERHEAD WIRES		

## STAKEOUT / MARKING NOTE

The location of all improvements shown hereon shall be staked / marked out by the Licensed Land Surveyor (under the direction of the Design Engineer). Fire tank components shall be staked prior to the start of any of the construction activities. Coordination of the staking shall be done by the Design Engineer. No fees for the staking or engineering inspection shall be borne by the Contractor.

## DEMOLITION NOTES

- Contractor is to notify "Call Before You Dig" prior to any on-site construction activities.
- The Contractor is responsible for legally disposing of all construction debris associated with the razing of on-site structures, trees, brush and shrubs.

## PROJECT REQUIREMENTS

A mandatory pre-construction meeting with the Contractor, Town and Design Engineer is required prior to the commencement of any on-site construction activities.

## EROSION CONTROL NOTE

All erosion control measures shown hereon shall be install as directed / required by Design Engineer. More erosion control measures may be required depending on site conditions during construction. All erosion control measures shown on this plan are to be installed only as warranted.

## NFPA CODES &amp; STANDARDS NOTE

The Site Contractor shall review all National Fire Protection Association (NFPA) Codes & Standards as it relates to this project prior to the start of construction activities at the project site. The Site Contractor is to install all water tanks, tank appurtenances and buoyancy blocking in accordance with the most recent NFPA requirements (NFPA Section 22). The Design Engineer in conjunction with the Clinton Volunteer Fire Dept. will be tasked to verify compliance with the NFPA standards / requirements.

## CALL BEFORE YOU DIG NOTE

All utilities shown are approximate and based upon actual field locations where visible. Notify "Call Before You Dig" prior to any on-site activities (1-800-922-4455).

## CONTRACTOR REVIEW NOTE

The Site Contractor is to verify all applicable NFPA installation requirements, existing site conditions and Federal/State/Local Building Codes & Requirements. Any discrepancies (slopes, locations, setbacks, computations, etc.) shall be brought to the design engineers attention immediately. Once the Contractors bid is accepted, the Contractor is liable for any required changes to the design plans or installation requirements if a discrepancy is discovered. The Contractor is solely responsible for their means and methods of install and full project implementation.

## UTILITY NOTE

Remove & replace any utilities as necessary in-order to perform the required work.

## SURVEY NOTES:

- THIS SURVEY PLAN HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTION 20-300B-1 THROUGH 20-300B-20 AND THE "STANDARDS FOR SURVEYS AND MAPS 1" IN THE STATE OF CONNECTICUT AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF THE LAND SURVEYORS, INC. ON OCTOBER 28, 2018.
  - PROPERTY/BOUNDARY OR LIMITED PROPERTY/ BOUNDARY SURVEY AND IS SUBJECT TO SUCH FACTS AS SAID SURVEYS MAY DISCLOSE.
  - THIS MAP WAS PREPARED FROM RECORD RESEARCH, OTHER MAPS, LIMITED FIELD MEASUREMENTS AND OTHER SOURCES. IT IS NOT TO BE CONSTRUED AS
  - THIS SURVEY CONFORMS TO THE STANDARDS AND THE ACCURACY OF CLASS: A-2 HORIZONTAL & 1-2 TOPOGRAPHIC ACCURACY.
  - BEARINGS AS DEPICTED ARE BASED UPON THE CONNECTICUT GRID SYSTEM NORTH AMERICAN DATUM OF 1983
  - ELEVATIONS BASED UPON NORTH AMERICAN VERTICAL DATUM 1988
  - CONTOUR INTERVAL = 1'
  - THE INTENT OF THIS MAP IS TO DEPICT THE EXISTING CONDITIONS OF THE PROPERTY
- BOUNDARY LINES OF ADJOINING PROPERTIES ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY AND ARE NOT TO BE CONSTRUED AS BEING ACCURATELY LOCATED OR DEPICTED.

INSPECTIONS & TESTING NOTE  
NFPA: 22 - STANDARD FOR WATER TANKS &  
PRIVATE FIRE PROTECTION (2018)

The Site Contractor is to have all their work inspected and tested in accordance with NFPA: 22 requirements.

## ROAD CLOSURE &amp; TRAFFIC CONTROL NOTE

If the fire tank installation requires the need for road closure, then the Contractor shall put together a written plan with times and dates. The plan shall include the description of all barriers, signs, traffic control devices and the use of local police as / if required. The proposed plan is to be reviewed and approved by the Design Engineer, Fire Dept., Police Dept. and Public Works officials. All costs associated with the road closure shall be paid for by the Contractor.

APPROVAL SET  
NOT FOR CONSTRUCTION

## SCHEMATIC SITE DEVELOPMENT PLAN

Prepared for  
**TOWN OF CLINTON**  
**"FIRE DEPT. WATER SUPPLY  
IMPROVEMENT PROJECT"**  
**CREAM POT ROAD - ID# 40/39/85**  
**CLINTON, CONNECTICUT**

DRAWING SCALE: 1"=10'

0 5 10 20

## HARKIN ENGINEERING, LLC

CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 21-21a DRAWN BY: M.P.H. DATE: 1/26/22 SHEET NO. SP-1

## Subject Parcel Information

OWNER: CLINTON LAND CONSERVATION TRUST INC  
PARCEL ADDRESS: CREAM POT ROAD, CLINTON, CONNECTICUT 06413  
MAILING ADDRESS: PO BOX 121, CLINTON, CONNECTICUT 06413  
PARCEL ID: MAP 40 BLOCK 39 LOT 85  
DEED: VOLUME 464 PAGE 339  
FLOOD ZONE: ZONES X & A PER FIRM MAP COMMUNITY PANEL #09007C0310G DATED AUGUST 28, 2008

AREA OF TOPOGRAPHIC SURVEY IS ENTIRELY IN THE FEMA FLOOD ZONE X

## OWNER:

Clinton Land Conservation Trust, Inc.  
P.O. Box 121  
Clinton, CT 06413

## APPLICANT:

Town of Clinton  
Mr. Karl F/ Kilduff (Town Manager)  
#54 East Main Street  
Clinton, CT 06413  
(860) 669-9333



GESICK & ASSOCIATES, P.C.  
SURVEYORS • MAPPERS • PLANNERS  
19 CEDAR ISLAND AVE.  
CLINTON, CONN 06413  
(860) 669-7799

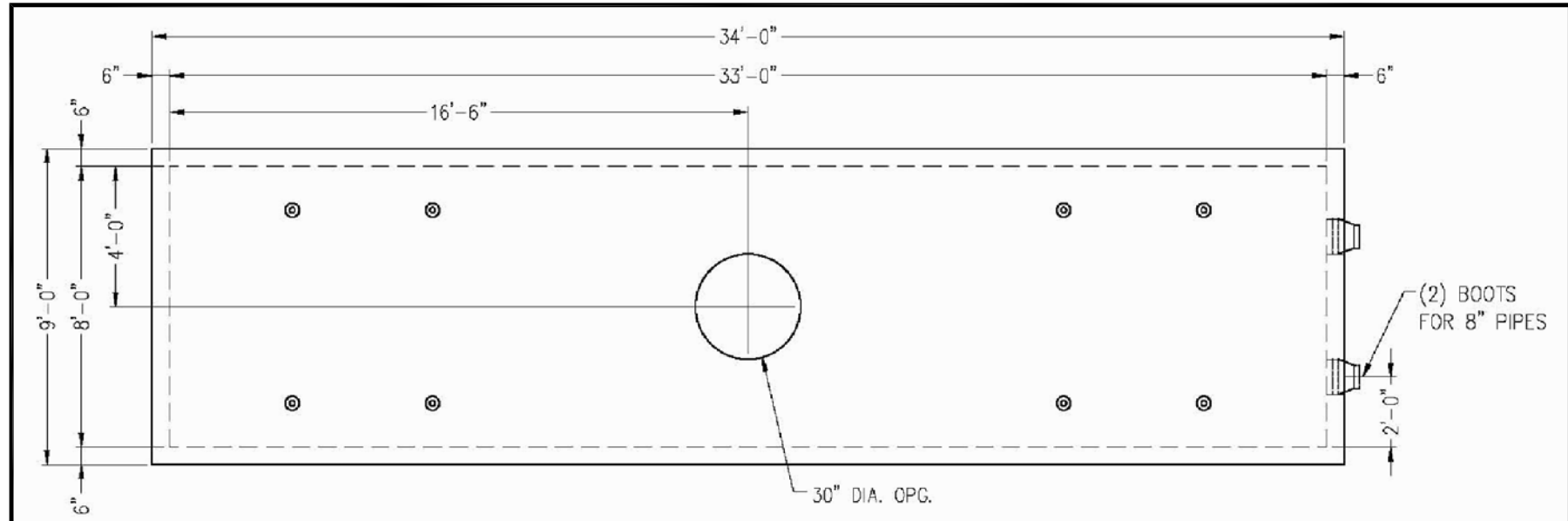
NO.	DATE	REVISIONS
1	5/19/22	Misc. Notes
2	5/25/22	Land Trust Revisions
3	6/6/22	Town Manager Comments
4	7/20/22	Tank Manufacturer

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Michael P. Harkin P.E. #22625

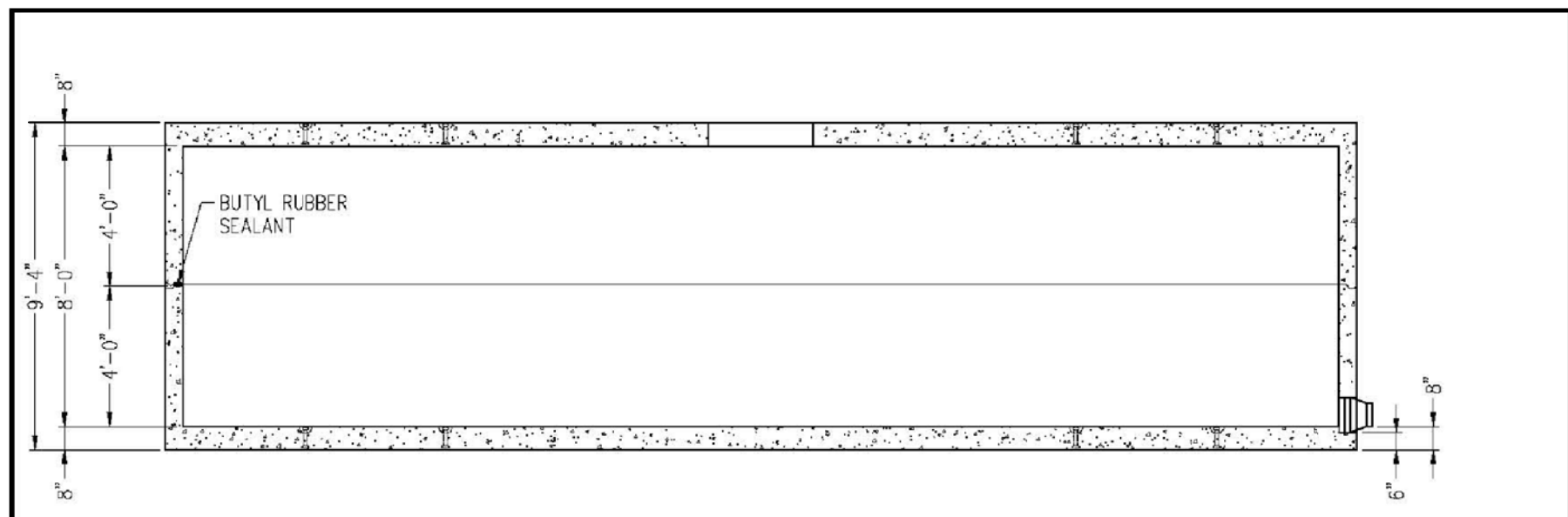




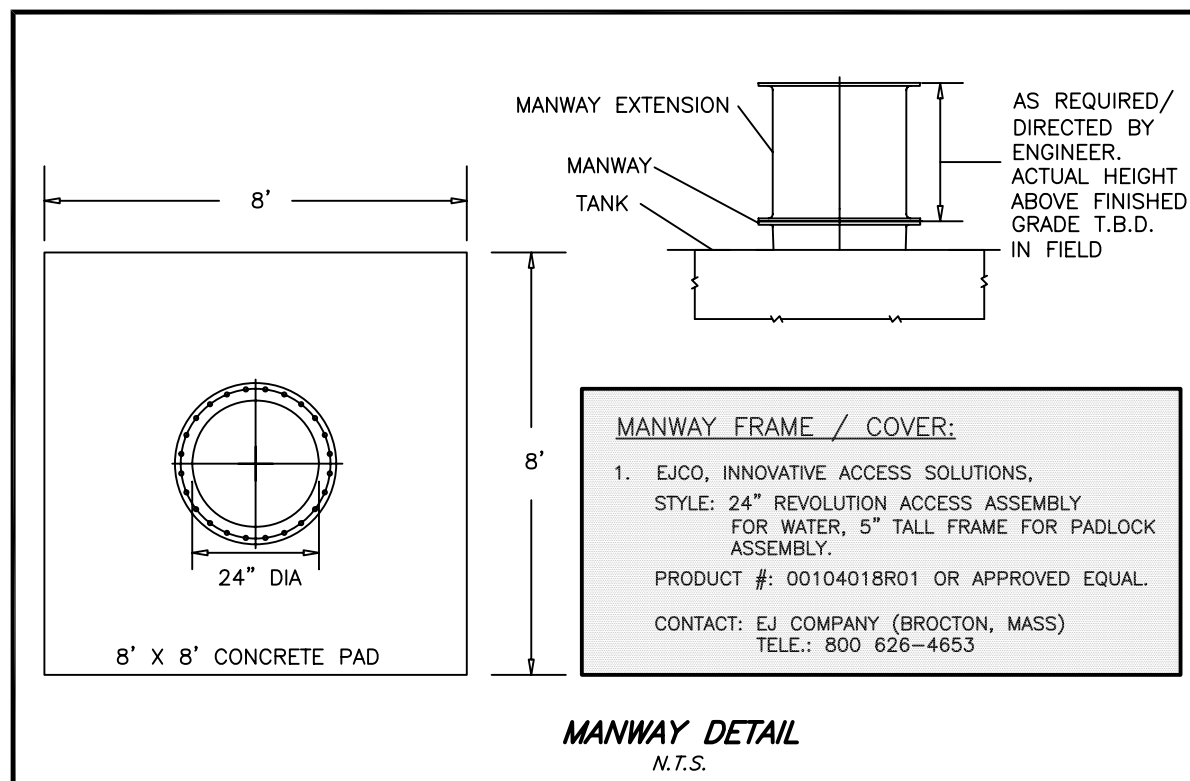


15,000 GAL. PRECAST CONCRETE FIRE TANK: PLAN VIEW  
N.T.S.

CONCRETE FIRE TANK PIPING DESIGN / LOCATIONS PER TANK MANUFACTURER

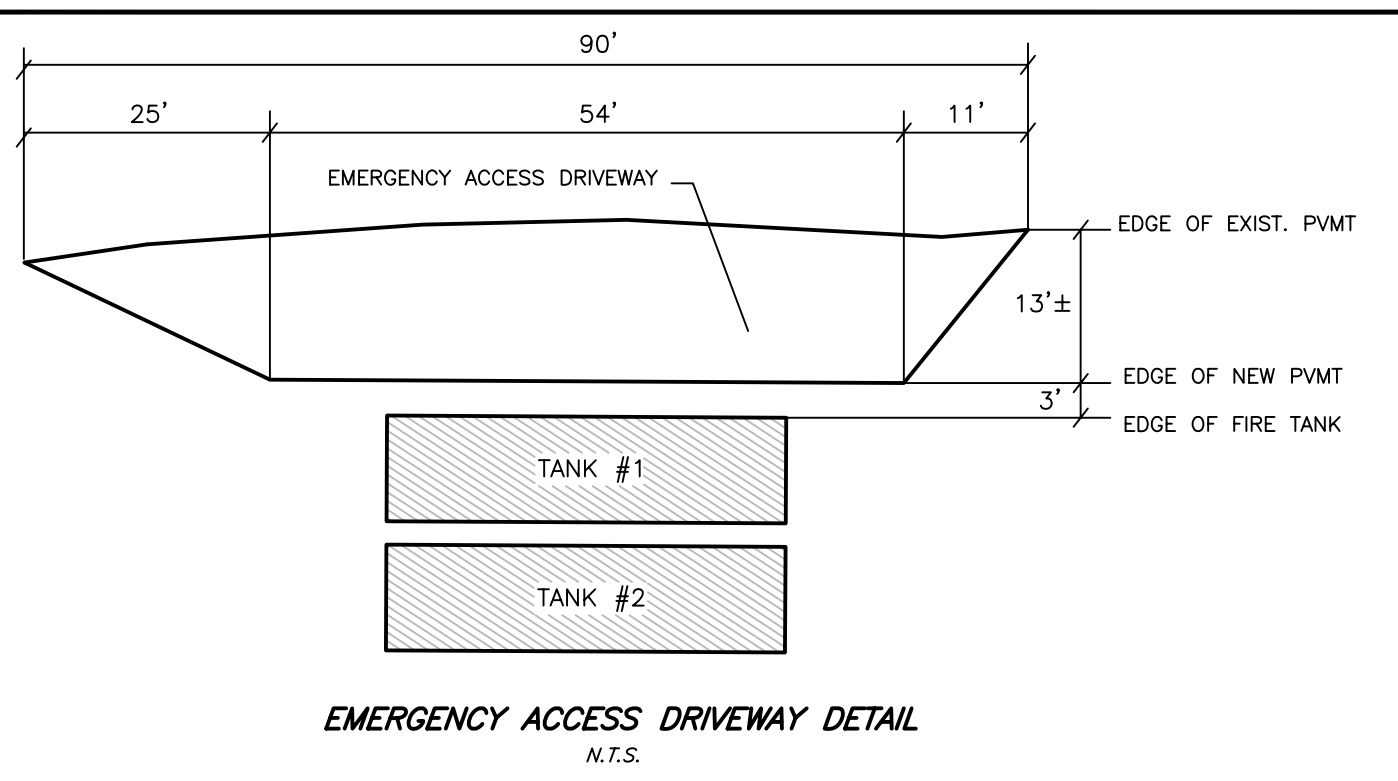


15,000 GAL. PRECAST CONCRETE FIRE TANK: X-SECTION VIEW  
N.T.S.



FIRE TANK NOTES:

- TANK SHALL BE: TWO (2), 15,000 GAL PRECAST CONCRETE WATER TANKS AS MADE BY UNITED CONCRETE PRODUCTS, INC OR APPROVED EQUAL. MANUFACTURER CONTACT INFORMATION PROVIDED ON THIS SHEET. ALL FIRE TANK AND APPURTENANCES SHALL HAVE CUT SHEETS SUBMITTED TO THE DESIGN ENGINEER & CLINTON VOLUNTEER FIRE DEPT. FOR APPROVAL PRIOR TO ORDERING SAID MATERIALS. ANY APPROVED EQUAL COMPONENTS WILL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER AND CLINTON VOLUNTEER FIRE DEPT. PRIOR TO ACCEPTANCE AND ORDERING.
- TANK SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S CURRENT INSTALLATION INSTRUCTIONS. THE TANK INSTALLATION INSTRUCTIONS SHALL BE SUPPLIED TO BOTH THE DESIGN ENGINEER AND CLINTON VOLUNTEER FIRE DEPT. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AT THE PROJECT SITE.
- TANK SHALL BE HOISTED USING LIFTING LUGS PROVIDED ON TANK. CONTRACTOR IS RESPONSIBLE FOR ORDERING AND SCHEDULE CRANE FOR TANK PLACEMENT.
- TANK SHALL BE TESTED FOR LEAKS AFTER INSTALLATION AND PRIOR TO FINAL BACKFILLING TO GRADE. THIS WORK SHALL BE DONE UNDER THE SUPERVISION OF THE DESIGN ENGINEER AND TOWN OF CLINTON FIRE DEPT. REPRESENTATIVE. EITHER AN AIR TEST VACUUM TEST OF 24 HOUR WATER TEST.
- THE BEDDING FOR THE TANKS SHALL CONSIST OF A 6" (MIN.) THICK LAYER OF 3/4" WASHED STONE FOR A LEVELING BASE OVER A 8" (MIN.) BED OF COMPACTED GRAVEL.  
IF GROUNDWATER IS ENCOUNTERED THEN A 12" THICK LAYER OF 3/4" WASHED STONE LEVELING BASE OVER NATURAL GRADE SHALL BE UTILIZED.  
ALL FILL MATERIAL FOUND BELOW THE TANKS SHALL BE REMOVED UNTIL NATURAL / ORIGINAL GRADE HAS BEEN LOCATED. GRAVEL FILL MATERIAL OR APPROVED EQUAL SHALL THEN BE INSTALLED IN-ORDER TO BRING THE GRADE BACK TO THE REQUIRED ELEVATION FOR THE TANKS.  
TANK BACKFILL MATERIAL SHALL CONSIST OF CLEAN NATURAL GRAVEL FILL FREE OF ANY ORGANICS. FILL MATERIAL SHALL BE APPROVED BY DESIGN ENGINEER PRIOR TO INSTALLATION. THE MATERIAL SHALL BE INSTALLED IN TWO (2) FOOT LIFTS AND COMPACTED WITH A PLATE COMPACTOR.
- TANK SHALL BE ANCHORED AS REQUIRED. FIRE TANK MANUFACTURER TO CALCULATE AND PROVIDE ALL ANTI-BOUANCY FEATURES / REQUIREMENTS FOR THE TANK.
- TANK SHALL BE LOCATED AND ORIENTED AS SHOWN ON ACCOMPANYING SITE DEVELOPMENT PLAN.
- TANK SHALL BE LOCATED SUCH THAT A 30 FOOT HOSE WILL REACH TO WITHIN 1 FOOT OF THE BOTTOM OF THE TANK FROM A TRUCK PARKED ON THE STREET.
- IT IS THE RESPONSIBILITY OF THE CLINTON FIRE DEPARTMENT TO PROVIDE AN APPROPRIATE LOCK FOR THE ACCESS MANHOLE.
- AN EIGHT FOOT SQUARE CONCRETE PAD SURROUNDING THE MANWAY IS TO BE INSTALLED.
- THE TANK IS TO BE FILLED BY THE CONTRACTOR, PRIOR TO THE REQUIRED TESTING AND APPROVAL BY THE CLINTON FIRE DEPARTMENT.



TOWN OF CLINTON FIRE TANK REQUIREMENTS:

- THE AREA ADJACENT TO THE TANK SHALL PROVIDE ADEQUATE SPACING FOR PARKING AN ENGINE ON EITHER END OF THE TANK IN-ORDER TO KEEP THE ROAD OPEN FOR ADDITIONAL APPARATUS TO DRIVE BY THE TANK TO THE END OF THE ROAD.
- TANK SHALL BE INSTALLED PER THE MANUFACTURERS GUIDELINES.
- MINIMUM VOLUME OF COMBINED TANKS SHALL BE 30,000 GALLONS.
- THE SUCTION PIPE CONNECTION MUST BE 24 IN. (BOTTOM) ABOVE THE LEVEL OF THE SHOULDER WHERE VEHICLE WHEELS WILL BE LOCATED WHEN THE FIRE TANK IS IN USE.
- THE SUCTION PIPE CONNECTION MUST BE NO LESS THAN 8' FROM WHERE THE PUMPER WHEELS WILL BE LOCATED WHEN IN USE AND NO MORE THAN 18'.
- THE BOTTOM OF THE SUCTION PIPE TO THE PUMPER CONNECTION MUST NOT EXCEED 15 FT VERTICAL DISTANCE.
- THE FILLER PIPE MUST BE 24 IN. (BOTTOM) ABOVE FINAL BACKFILL GRADE.
- THE FINAL DESIGN OF THE TANK MUST BE SUBMITTED TO THE TOWN OF CLINTON FIRE DEPT. FOR APPROVAL PRIOR TO CONSTRUCTION. ALL PLANS MUST BE SIGNED/STAMPED BY A LICENSED/REGISTERED PROFESSIONAL ENGINEER.
- VENT PIPING SHOULD BE 6" MAX. TO ALLOW DRAFTING FROM THE FIRE TANK AT THE MAXIMUM CAPABILITY PERMITTED BY THE SUCTION PIPING.
- THE ENTIRE FIRE TANK MUST BE COMPLETED AND INSPECTED BEFORE ANY BACKFILLING IS DONE.
- ALL SIGNAGE WILL BE INSTALLED BY THE TOWN OF CLINTON PUBLIC WORKS DEPARTMENT. THE FIRE TANK CONTRACTOR IS NOT RESPONSIBLE FOR THE INSTALLATION OF ANY PERMANENT FIRE TANK SIGNAGE.

OWNER:  
Clinton Land Conservation Trust, Inc.  
P.O. Box 121  
Clinton, CT 06413

APPLICANT:  
Town of Clinton  
Mr. Karl F/ Kilduff (Town Manager)  
#54 East Main Street  
Clinton, CT 06413  
(860) 669-9333



GESICK & ASSOCIATES, P.C.  
SURVEYORS • MAPPERS • PLANNERS  
19 CEDAR ISLAND AVE.  
CLINTON, CONN 06413  
(860) 669-7799

A. DESIGN CRITERIA:

1. Erosion and sedimentation control measures have been located with consideration given to slopes, wetlands, watercourses and coastal resources, and in accordance with the Connecticut "Guidelines for Soil Erosion and Sediment Control", of the Connecticut Council of Soil and Water Conservation, Latest Edition.

B. INSTALLATION AND/OR APPLICATION PROCEDURES:

1. Erosion and sedimentation control devices shall be constructed in accordance with the project plans and specifications.

C. OPERATION, MAINTENANCE PROGRAM, INSPECTIONS:

1. Prior to any construction, a pre construction conference is to be held among the Design Engineer, the Owners, the Contractor, the Town Engineer and the Zoning Enforcement Officer to review the erosion and sedimentation control measures to be taken. The contractor shall be responsible for arranging the pre construction conference.

2. All revisions after approval has been granted shall be forwarded to the appropriate commissions and the Town Engineer.

3. The Town Zoning Departments shall receive written notification seventy-two hours before the start of any construction.

4. All erosion control measures associated with the construction are to be installed and maintained in accordance with the schedule and requirements. Additional control measures shall be installed during the construction period as necessary and required.

5. All soil erosion and sediment control measures must be installed before any construction activities.

6. Filter fabric/silt fence will be installed along the toe of all critical cut and fill slopes.

7. Sediment removed from control measures must be disposed of at a location approved by the design engineer that will not cause additional sedimentation to the surrounding area.

8. Qualified personnel (provided by the contractor) shall inspect disturbed areas of the construction activity that have not been finally stabilized, structure control measures, and locations where vehicles enter or exit the site at least once every seven (7) calendar days within 24 hours of the end of a storm that is 0.1 inches or greater. Where sites have been stabilized, such inspection shall be conducted at least once every month for three (3) months.

9. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

10. Based on the results of this inspection, the description of potential sources and pollution prevention measures identified in the plan shall be revised as appropriate or as soon as practicable after such inspection. Such modifications shall provide for implementation of any changes to the site within 24 hours and implementation of any changes to the plan within three (3) calendar days following the inspection. The plan shall be revised and the site controls updated in accordance with sound engineering practices, the Guideline and Subsections (4) and (6) (c) i 3) of the Storm Water General Permit.

11. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the Storm Water Pollution Control Plan and actions taken shall be made and retained as part of the plan for at least three (3) years after the date of inspection. The report shall be signed by the contractor, or his authorizing representative.

D. BEST MANAGEMENT PRACTICES:

1. Construction shall proceed in accordance with the requirements of the general sequence of grading and construction activities, application of soil erosion and sediment control measures, and final stabilization of site as indicated on the plans.

2. Refueling of equipment or machinery within seventy-five (75) feet of any wetland, watercourse or coastal resources shall be prohibited.

3. No materials resulting from construction activities shall be placed in or contribute to the degradation of an adjacent wetland, watercourse or coastal resource. Disposal of any material shall be in accordance with Connecticut General Statutes including, but not limited to, Sections 22A-207 through 22A-209.

4. Fording of streams with equipment shall be prohibited, except where approved by the Engineer. Such equipment travel shall be required. Where frequent equipment travel on stream banks and beds is necessary, washed stone shall be placed to minimize erosion, scour and turbidity, provided no significant grade change will occur and no significant environmental impact will result. Approval will be required for any haul road or temporary structure placed in wetlands or watercourses.

5. A construction sequencing plan and a water handling plan, including a contingency plan for flood events, must be submitted in writing to the Engineer and approved by the Engineer prior to the commencement of any construction in a waterway (requirement may be waived at digression of Design Engineer).

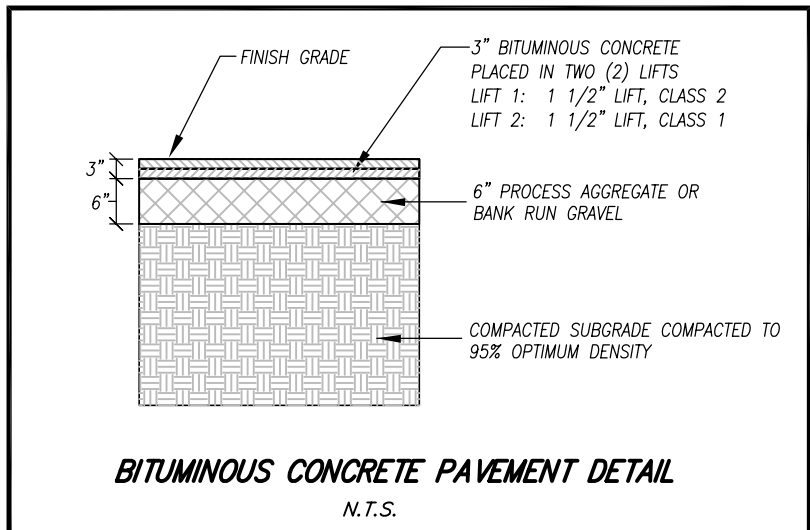
6. When dewatering is necessary, pumps shall not discharge directly into the wetlands or watercourse. Prior to dewatering the contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and obtain the Engineer's approval of such method and devices to be used for dewatering activities including, but not limited to, pumping the water into a temporary sedimentation trap, providing surge protection at the inlet and outlet of pumps or floating the intake of the pump, or other methods to minimize and retain the suspended solids. If the Engineer determines that the pump operation is causing turbidity problems, said operation shall cease until such time as means of controlling turbidity is submitted by the contractor and approved by the Engineer and implemented by the contractor.

7. Work within and adjacent to watercourses shall be conducted during periods of low flow, whenever possible. The Engineer shall remain aware of flow conditions during the work, and shall cause such activity to cease should flow conditions threaten to cause excessive erosion, siltation or turbidity. The contractor shall make every effort to secure the work site before predicted major storms. A major storm shall be defined as a storm predicted by the NOAA Weather Service with warnings of flooding, severe thunderstorms, or similarly severe weather conditions or effects.

8. Dumping of oil, chemicals, or other deleterious materials on the ground is forbidden. The contractor shall provide a means of catching, retaining and properly disposing of drips, leaks, removed oil filters, and other deleterious material. All spills of such materials shall be reported immediately by the contractor to the DEEP.

9. Application of Fertilizers, Herbicides or Pesticides must be done by a Connecticut licensed applicator. The contractor shall submit to the Engineer the proposed Applicator's name and license number, and must receive the Engineer's approval of the proposed applicator before such application is carried out.

10. During spawning seasons, discharges and construction activities in spawning area of the State waters shall be restricted so as not to disturb or inhibit aquatic species which are indigenous to the waters.



E. SOIL STABILIZATION MEASURES:

1. All topsoil not to be used for final grading/landscaped areas shall be removed from the site immediately, in accordance with applicable State and Local laws. All topsoil to be used in landscaped areas shall be stored/stockpiled in accordance with applicable State and Local laws.

2. All areas within 500 feet of an inhabited dwelling shall be wetted as necessary to provide dust control.

3. Sediment disposal areas and topsoil stockpiles not scheduled for construction activities within thirty (30) days shall be stabilized as follows:

- Ground limestone at a rate of 90 lbs. per 1,000 s.f.
- Fertilizer at a rate of 7.5 lbs. per 1,000 s.f. using a 10-10-10 analysis or an equivalent.
- Annual Rye grass seeding applied at a rate of not less than 1 lb. per 1,000 s.f.
- Mulch all newly seeded areas with 80 lbs. of salt hay or small grain straw per 1,000 s.f.

4. All disturbed areas are to be provided with at least 4" of topsoil before final seeding.

5. Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading. Mulching as necessary for seed protection and establishment. Lime and fertilize before permanent seeding.

6. Permanent vegetation:

- Materials specifications for lawn areas:
  - Soil: A minimum of 4" topsoil
  - Lime: 90 lbs. of ground limestone per 1,000 s.f.
  - Seed: Permanent Vegetation - Lawn

Common Name	Lbs./Acre	Lbs./1,000 s.f.
Kentucky Bluegrass	20	.45
Creeping Red Fescue	20	.45
Perennial Rye	5	.05

F. DUST CONTROL:

Dust control to be performed in accordance with the Connecticut "Guidelines for Soil Erosion and Sediment Control", of the Connecticut Council of Soil and Water Conservation, Latest Edition.

The following general procedure shall be used:  
(Note: Additional dust control measures may be required during construction and shall be applied as directed by Design Engineer. The use of calcium chloride is prohibited due to the existing soils permeability and the sites sensitive location).

a) Limit the amount of exposed soil to reduce the area of land disturbance at any one time. Use stabilization measures (erosion control mats, temporary seeding, hay, mulch, etc.).

b) Maintain as much natural vegetation as practical. Apply the use of natural vegetative buffers between graded areas and those areas to be protected.

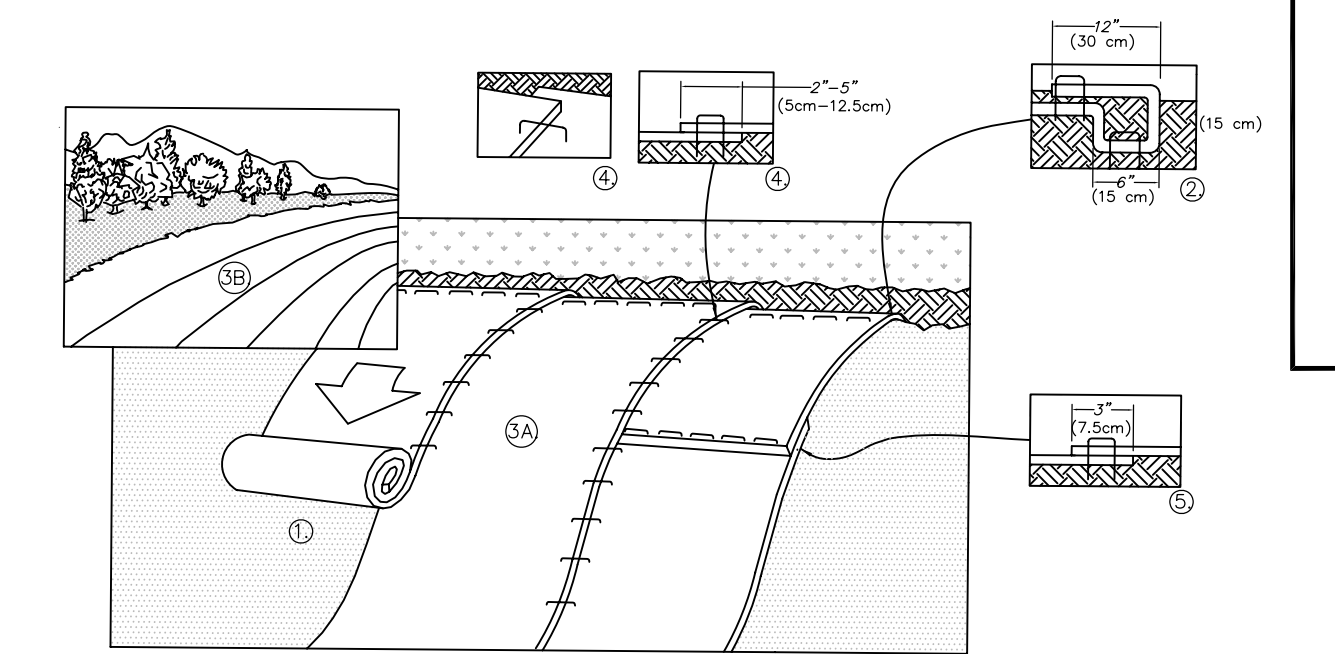
c) Limit construction traffic to predetermined onsite routes.

d) Identify and address sources of dust being generated during construction on a regular basis. Use water to keep all disturbed areas damp. The source of water to be used shall be identified prior to the commencement of any onsite grading activities. Pumping from onsite wetland areas is prohibited.

G. RESPONSIBLE PARTIES:

- CONTRACTOR  
(NOT YET DETERMINED)  
WILL PROVIDE CONTACT INFORMATION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY

is assigned the responsibility for implementing the control measures of this plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of this plan, and notifying the Planning and Zoning Commission of the transfer of responsibility, and for conveying a copy of this plan if title to the property is transferred.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.  
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) WITH THE COLORED SEAM STITCH ON THE EDGE OF THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLED) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:  
\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

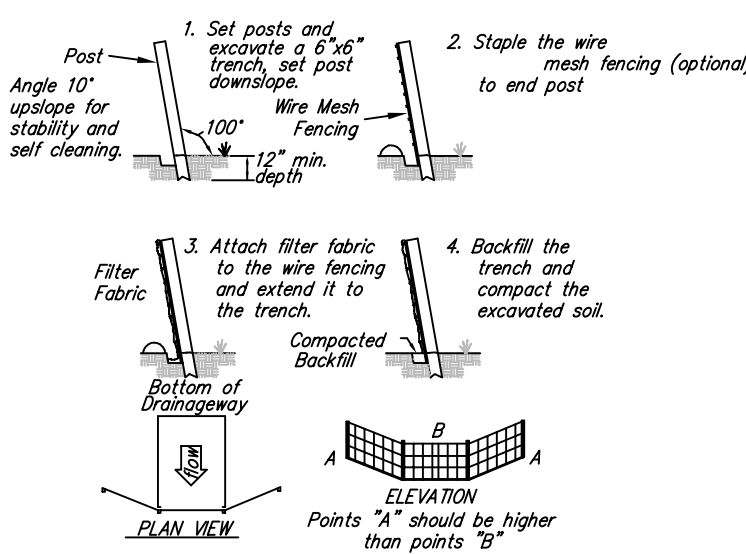
EROSION CONTROL BLANKET INSTALLATION DETAIL  
N.T.S.

DESIGN ENGINEER TO REVIEW  
AND MONITOR ALL PHASES  
OF CONSTRUCTION.

NO.	DATE	REVISIONS
1	5/19/22	Misc. Notes
2	5/25/22	Land Trust Revisions
3	6/6/22	Town Manager Comments
4	7/20/22	Tank Manufacturer

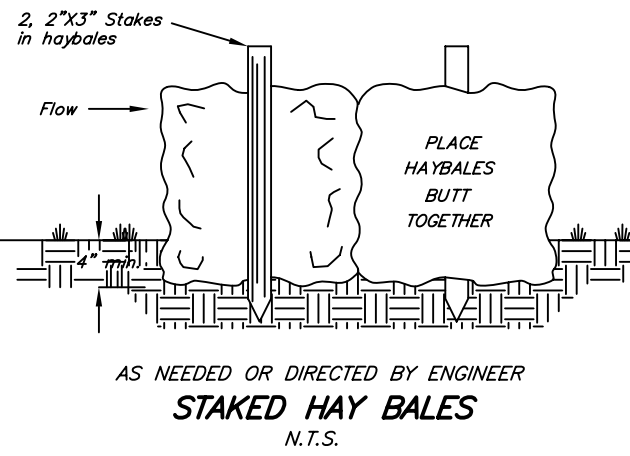
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Michael P. Harkin P.E. #22625

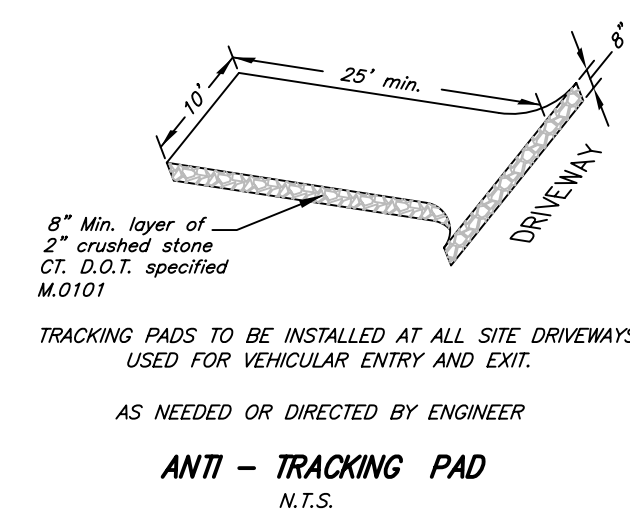


Source: U.S. Department of Agriculture, Soil Conservation Service, Storrs, CT.

AS NEEDED OR DIRECTED BY ENGINEER  
PLACEMENT AND CONSTRUCTION OF A  
SYNTHETIC FILTER BARRIER  
N.T.S.



AS NEEDED OR DIRECTED BY ENGINEER  
STAKED HAY BALES  
N.T.S.



AS NEEDED OR DIRECTED BY ENGINEER  
ANTI - TRACKING PAD  
N.T.S.

EROSION CONTROL BLANKETS:

(The following blanket will be install if conditions require or as directed by engineer)

S75: Material:  
100% straw matrix sewn into a photo-degradable net.  
Straw: 5 lbs/sq. yd.  
Net: Lightweight degradable (Top side only)

CONTRACTOR REVIEW NOTE

The Site Contractor is to verify all applicable NFPA installation requirements, existing site conditions and Federal/State/Local Building Codes & Requirements. Any discrepancies (slopes, locations, setbacks, computations, etc.) shall be brought to the design engineers attention immediately. Once the Contractors bid is accepted, the Contractor is liable for any required changes to the design plans or installation requirements if a discrepancy is discovered. The Contractor is solely responsible for their means and methods of install and full project implementation.

APPROVAL SET  
NOT FOR CONSTRUCTION

MISC. CONSTRUCTION DETAILS & NOTES

Prepared for  
**TOWN OF CLINTON**  
**"FIRE DEPT. WATER SUPPLY IMPROVEMENT PROJECT"**  
**CREAM POT ROAD - ID# 40/39/85**  
**CLINTON, CONNECTICUT**

DRAWING SCALE: 1"=10'

**HARKIN ENGINEERING, LLC**  
CIVIL ENGINEERING CONSULTING

78 Wolf Hollow Lane - Killingworth, CT 06419 - Tel. (860) 663-4248

JOB NO. 21-21a DRAWN BY: M.P.H. DATE: 1/26/22 SHEET NO. D-1