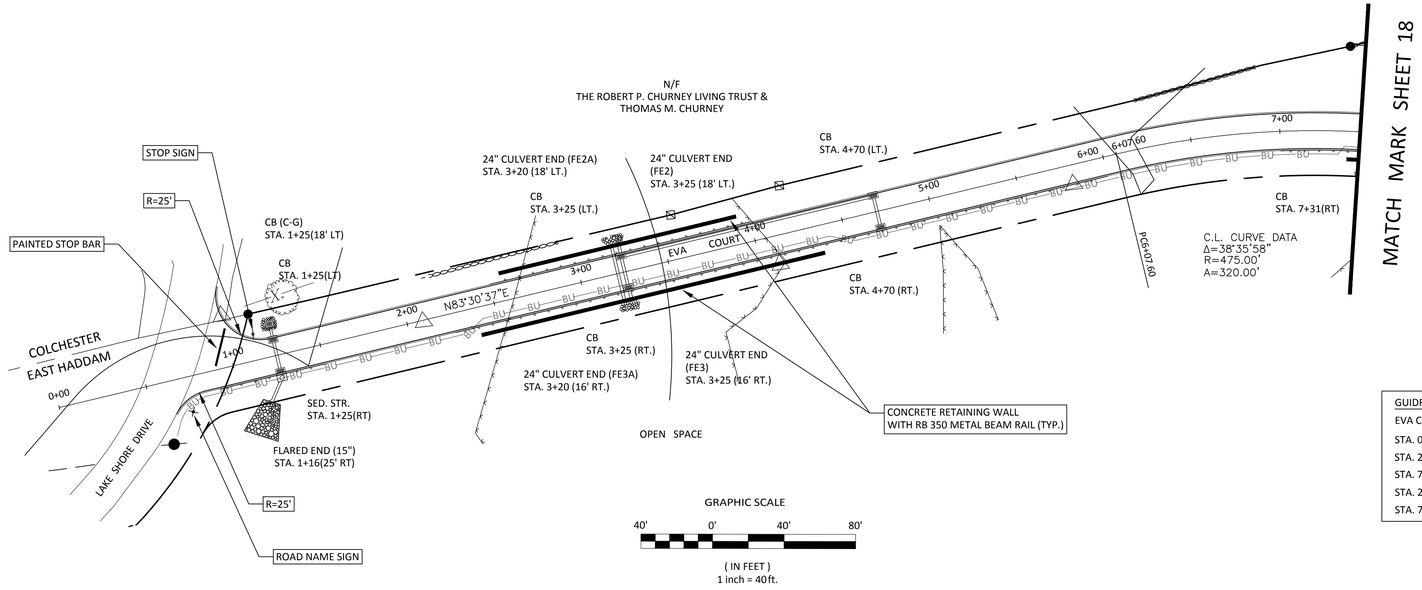
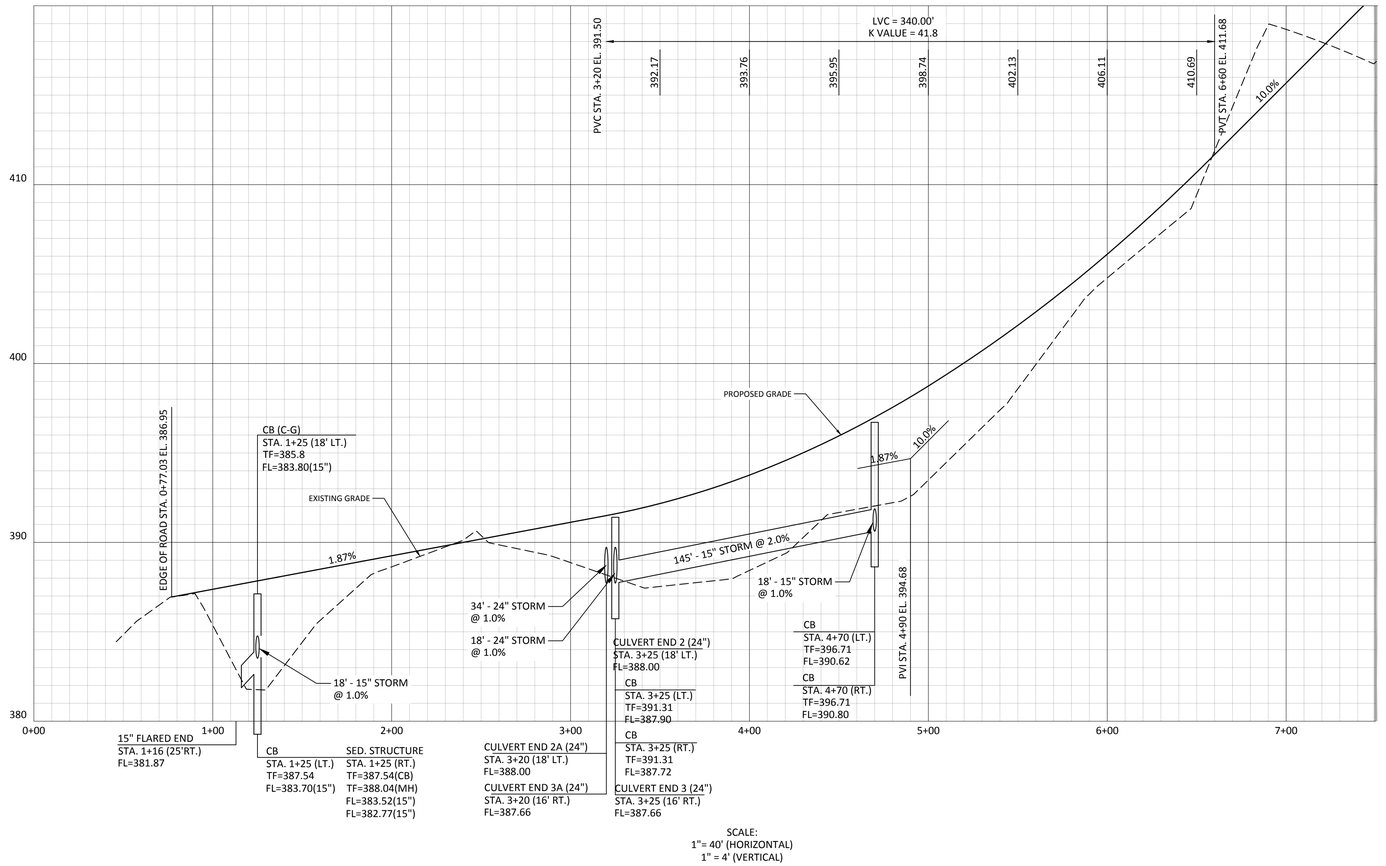




GUIDRAIL LOCATIONS

EVA COURT

STA. 0+90 RT. TO STA. 1+50 RT.
STA. 2+25 RT. TO STA. 6+00 RT.
STA. 7+00 RT. TO STA. 8+25 RT.
STA. 2+50 LT. TO STA. 4+00 LT.
STA. 7+50 LT. TO STA. 8+00 LT.



SCALE:
1"= 40' (HORIZONTAL)
1" = 4' (VERTICAL)

MATCH MARK SHEET 18

ROB HELLSTROM
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HEBRON, CT., 06248
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Designed By: MAR
Drawn By: SAM
Checked By: MAR
CAD File: 21-033_bndy

Drawing Scale: 1"=40'

Drawing date: 1/6/22

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

PLAN & PROFILE

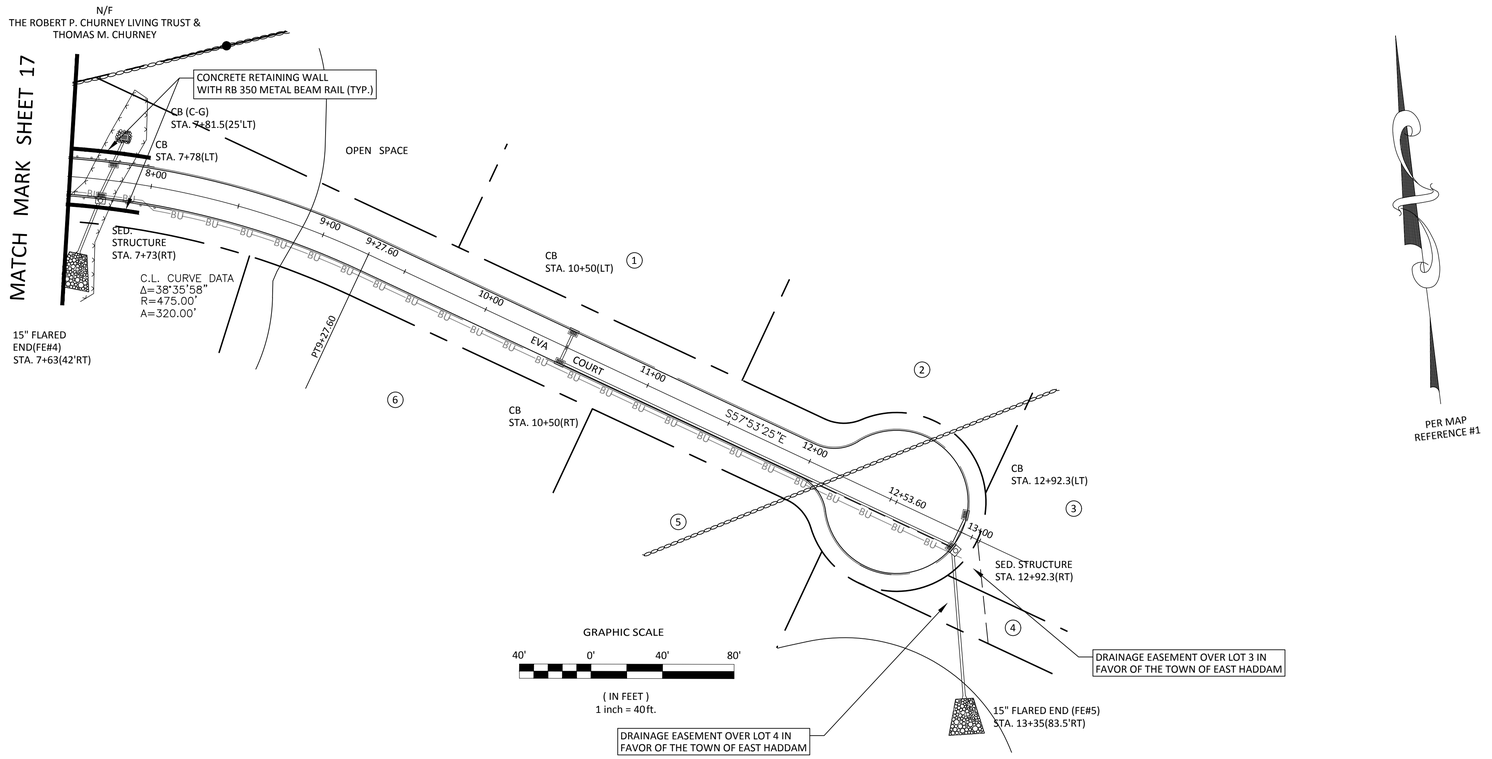
PROJECT TITLE: LAKE HAYWARD PRESERVE
LAKE SHORE DRIVE EAST HADDAM, CT

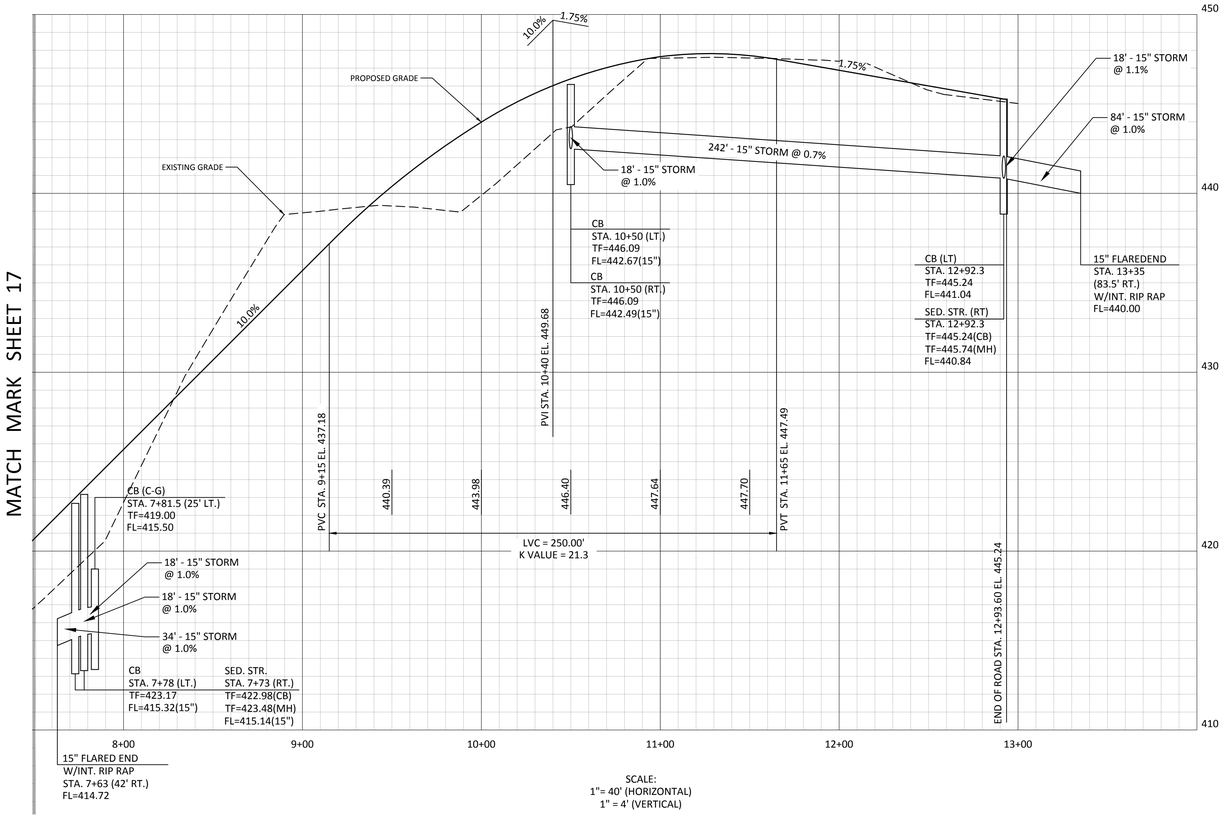
PREPARED FOR: ANTHONY SILVESTRI

CIVIL ENGINEERING CONSULTANTS
63 NORWICH AVENUE, SUITE 202
COLCHESTER, CT
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Reynolds Engineering Services, LLC

Drawing #: 17 OF 28

Job #: 21-033





GUIDRAIL LOCATIONS

EVA COURT

STA. 0+90 RT. TO STA. 1+50 RT.

STA. 2+25 RT. TO STA. 6+00 RT.

STA. 7+00 RT. TO STA. 8+25 RT.

STA. 2+50 LT. TO STA. 4+00 LT.

STA. 7+50 LT. TO STA. 8+00 LT.

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PLAN & PROFILE

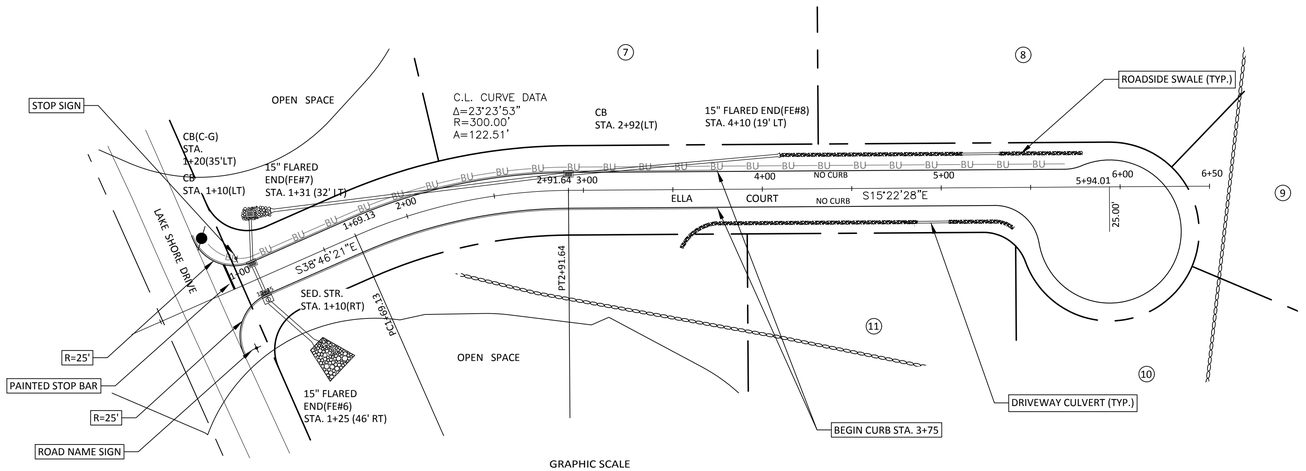
PROJECT TITLE: *LAKE HAYWARD PRESERVE*
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: *ANTHONY SILVESTRI*

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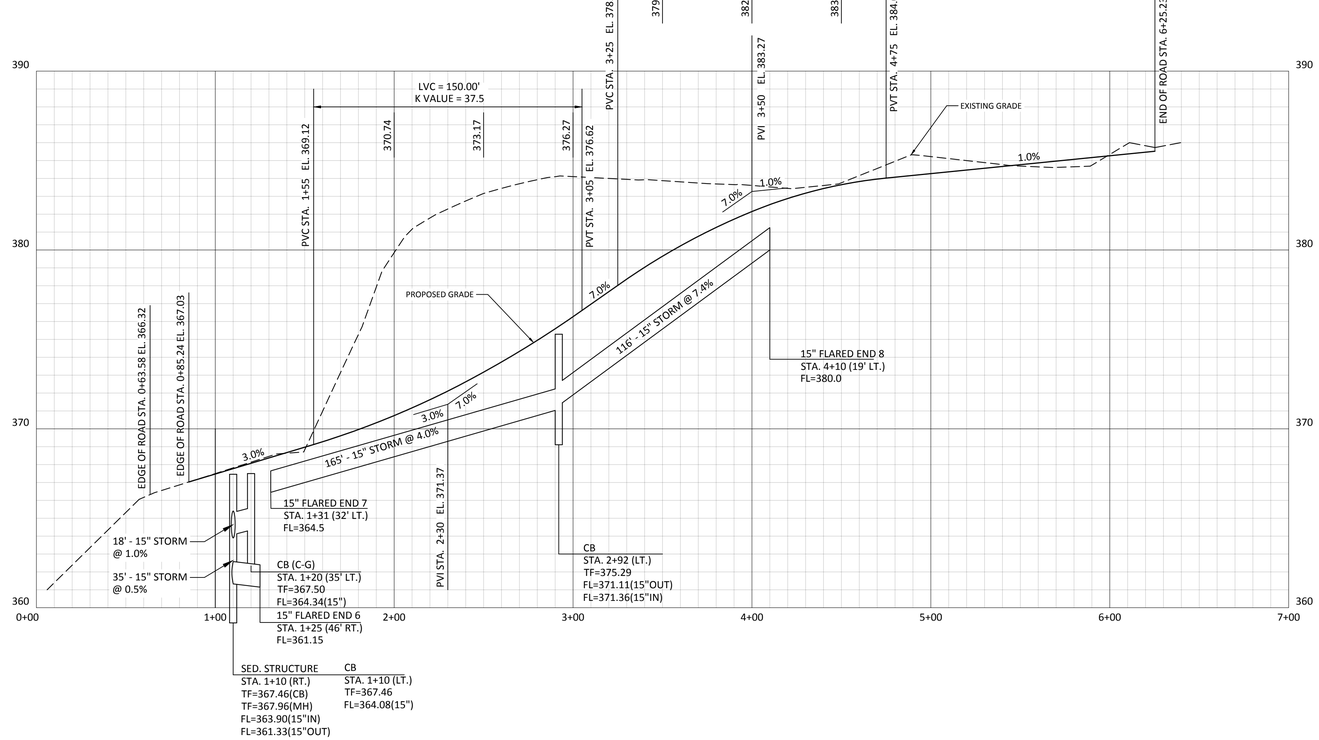
PER MAP REFERENCE #1

GRAPHIC SCALE

40' 0' 40' 80'

(IN FEET)
1 inch = 40 ft.

ALL ROAD TO BE CURBED EXCEPT AS NOTED



SCALE:
1"= 40' (HORIZONTAL)
1" = 4' (VERTICAL)

Designed By:	Drawn By:	Checked By:	CAD File:
MAR	SAM	MAR	21-033_bndy

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PLAN & PROFILE

PROJECT TITLE: *LAKE HAYWARD PRESERVE*
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: *ANTHONY SILVESTRI*

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Drawing #: 19 OF 28

Job #: 21-033

SOIL EROSION AND SEDIMENT CONTROL MEASURES

A.) APPROVAL REQUIRED TO START CONSTRUCTION

NO CONSTRUCTION SHALL TAKE PLACE ON THIS PROPERTY UNTIL THE HEREIN STATED EROSION AND SEDIMENT CONTROL HAS BEEN REVIEWED AND CERTIFIED BY THE EAST HADDAM PUBLIC WORKS DIRECTOR OR ITS DESIGNATED AGENT(S).

B.) DESCRIPTION OF PROPOSED DEVELOPMENT

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 1,900 L.F. OF ROADWAY TO SERVE RESIDENTIAL LOTS. THE SITE ON WHICH THE CONSTRUCTION WILL OCCUR IS A WOODED AREA. CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING FOR THE ROADWAY, INCLUDING DRAINAGE IMPROVEMENTS AND EXCAVATION OF A RETENTION BASIN.

C.) GENERAL SEQUENCE OF DEVELOPMENT

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSES, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT INSOFAR AS POSSIBLE, EROSION ON THE SITE. NO SITE DEVELOPMENT FOR A LOT SHALL BEGIN UNTIL THE HEREIN STATED SOIL EROSION AND SEDIMENT CONTROL PLAN HAS BEEN CERTIFIED AND THOSE CONTROL MEASURES SCHEDULED FOR INSTALLATION PRIOR TO SITE DEVELOPMENT HAVE BEEN INSTALLED AND ARE FUNCTIONAL.

D.) ROADWAY DEVELOPMENT

AFTER INSTALLING EROSION AND SEDIMENTATION CONTROLS, AREAS OF DISTURBANCE SHALL BE CLEARED BY PLACING STUMPAGE AND DEBRIS IN DESIGNATED STOCKPILE AREAS FOR OFFSITE DISPOSAL. TOPSOIL SHALL BE STRIPPED AND ALSO PLACED IN STOCKPILE AREAS TO BE USED FOR ON SITE LOAMING. OUTLET PROTECTION AND SEDIMENTATION CONTROL SHALL BE PUT IN PLACE IMMEDIATELY UPON INSTALLATION OF STORM DRAINAGE. ALL DISTURBED AREAS ARE TO BE STABILIZED, LOAMED & SEEDED IMMEDIATELY AFTER FINAL GRADING. EROSION AND SEDIMENTATION CONTROLS SHALL REMAIN AND BE MAINTAINED UNTIL SITE HAS STABILIZED AND VEGETATION HAS BEEN ESTABLISHED. ADDITIONAL MEASURES MAY BE REQUIRED TO ADDRESS FIELD CONDITIONS AS ORDERED BY THE TOWN OF EAST HADDAM OR ITS DESIGNATED AGENT(S). ALL EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION PRACTICES SHALL BE AS DESCRIBED HEREIN AND FURTHER DETAILED IN THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (REVISED 2002) AND AMENDMENTS, AS PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION.

E) LAND GRADING

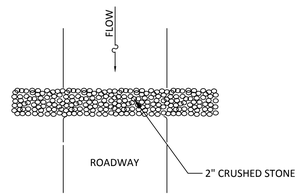
THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA.

- THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 : 1)

- THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 : 1)

- THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1 : 4)

- NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OWNER, OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODY.



PLAN

NOTE:
1. INSTALLATION REQUIREMENTS
   a. THE STONE SHALL BE PILED TO A NATURAL ANGLE OF REPOSE WITH THE HEIGHT OF AT LEAST 2 FEET.
   b. THE BARRIER SHALL BE CONSTRUCTED SO WATER CANNOT BYPASS THE BARRIER AROUND THE ENDS.
2. MAINTENANCE
   a. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
   b. THE BARRIER SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STONE BARRIER
NOT TO SCALE

DEVELOPMENT SCHEDULE
IT IS ANTICIPATED THAT GRADING AND CONSTRUCTION ACTIVITIES WILL BEGIN FALL 2023.

1. INSTALL EROSION AND SEDIMENT CONTROL STRUCTURES.
2. ROUGH GRADE DRIVEWAY
3. INSTALL CULVERT AND DRAINAGE FEATURES.
4. INSTALL DRIVEWAY.
5. LOAM, SEED AND MULCH LANDSCAPE AREAS.
6. REMOVE EROSION AND SEDIMENT CONTROL.

I. GENERAL EROSION AND SEDIMENTATION CONTROL NOTES
(SEE II. & III. FOR SPECIFIED CONSTRUCTION MEASURE)

THIS CONSTRUCTION PLAN PROPOSES EROSION CONTROL MEASURES WHICH WILL PERFORM ONE OR MORE OF THE FOLLOWING FUNCTIONS: MINIMIZATION OF SOIL EXPOSURE, CONTROL OF RUNOFF, SHIELDING OF THE SOILS AND BUILDING OF THE SOILS. PROPER EROSION MANAGEMENT WILL MINIMIZE THE EROSION, BUT IT MUST BE UNDERSTOOD THAT ONLY "REASONABLE" EROSION CONTROL CAN BE EXPECTED. THUS, EVEN WITH THE BEST PLAN, SOME EROSION MUST BE ANTICIPATED. SEDIMENTATION CONTROLS ARE THE SECONDARY LINE OF DEFENSE ON THE CONSTRUCTION SITE.

DURING THE COURSE OF SITE CONSTRUCTION WEEKLY INSPECTIONS OF ALL EROSION AND SEDIMENTATION MEASURES WILL BE CONDUCTED BY A QUALIFIED EROSION AND SEDIMENTATION CONTROL PROFESSIONAL AND REPORTS FILED WITH THE CITY'S AGENT.

WATER GENERATED SEDIMENT IS A SERIOUS PROBLEM WHEN NATURAL VEGETATION IS REMOVED OR ALTERED, FOR THIS REASON, A RECOMMENDATION FOR MINIMAL SITE DISTURBANCE TO EXISTING VEGETATION AND SOIL IS PROPOSED. MINIMAL SOIL EXPOSURE NOT ONLY ENTAILS DEMARCATING SITE DISTURBANCE LIMITS, BUT ALSO INVOLVES THE STAGING OF GRADING AND SUBSEQUENT REV OF DISTURBED AREAS, SO THAT THE LEAST AMOUNT OF SOIL SURFACE IS EXPOSED AT ANY ONE TIME.

RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION AND SAFE DISPOSAL,PRECIPITATION RUNOFF SHALL ALSO BE CONTROLLED BY THE STAGING OF CONSTRUCTION ACTIVITY AND THE PRESERVATION OF NATURAL VEGETATION WHENEVER POSSIBLE. THE BINDING OF SOIL PARTICLES TO MAKE THEM LESS SUSCEPTIBLE TO REMOVAL BY RAIN SPLASH OR RUNOFF BY THE USE OF NATURAL AND PHYSICAL "BINDERS" (MULCHES AND FABRICS) MAY BE REQUIRED AS DIRECTED BY THE ENGINEER OR THE CITY'S AGENT.

TO PREVENT SEDIMENT FROM LEAVING THE SITE, TURBID SURFACE RUNOFF SHALL BE DIVERTED THROUGH "LEVEL SPREADER" DEVICES. TEMPORARY LEVEL SPREADER DEVICES SHALL BE CREATED BY PLACING ENGINEERING FABRIC DOWN GRADIENT OF SOIL DISTURBING ACTIVITIES. THUS FLOW WILL BE DISPERSED OVER A WIDE AREA AND FILTERED BY THE FABRIC. THE FENCE SHALL FOLLOW THE EXISTING CONTOURS WITH THE ENDS OF THE FENCE TURNED UPHILL TO PREVENT END CUTTING. FILTER FABRIC USED AS SILT FENCE AND NOT PLACED ON CONTOUR SHOULD HAVE "WINGS" AT INTERVALS OF NO GREATER THAN 100 FEET TO INTERRUPT FLOWS PARALLEL TO THE FENCE. TECHNIQUES SUCH AS "WINGED" FABRIC SILT FENCE CHECK DAMS, HAY BALES INSTALLED AND MAINTAINED AROUND ALL CATCH BASINS, FABRIC SILT FENCE /LEVEL SPREADERS AND SEDIMENTATION PONDS MAY BE USED.

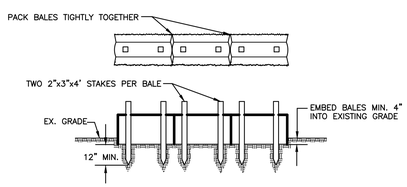
DUST CONTROL, IF DETERMINED TO BE REQUIRED DURING THE WEEKLY INSPECTIONS, SHALL BE ACHIEVED BY THE APPLICATION OF ANIONIC OR CATIONIC ASPHALT EMULSIONS, LATEX EMULSION OR RESIN IN WATER. FOR APPLICATION RATES AND DILUTION REQUIREMENTS, REFER TO MANUFACTURER'S GUIDELINES. THE EXPOSED SOIL SURFACE SHOULD BE MOISTENED PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST, BUT WATER SHALL NOT BE EXCLUSIVELY USED.

IN AN EFFORT TO REDUCE THE POTENTIAL FOR TRACKING MUD OF THE SITE, COARSE STONE "TRACKING PADS AND IMMEDIATE CONSTRUCTION OF GRAVEL SUBBASE FOR ROADWAYS WILL MINIMIZE ANY OFF-SITE TRACKING. ACCUMULATED DIRT TRACKED ONTO EXISTING ROADWAYS SHALL BE REMOVEDBY SHOVEL AND BROOM AT THE END OF EACH WORK DAY.

BEFORE AND AFTER EACH STORM EVENT AND ONCE EVERY DAY, ALL SEDIMENT AND EROSION CONTROLS WILL BE INSPECTED BY THE ENGINEER OR ENVIRONMENTAL SUPERVISOR. ANY CORRECTIVE MEASURES TO MITIGATE ENVIRONMENTAL CONCERNS WILL BE ORDERED AT THAT TIME. THERE WILL BE 150 FT. OF SILT FENCE WITH THE REQUIRED POSTS ON HAND FOR EMERGENCY SITUATIONS.

EXCAVATIONS WHICH MUST BE DEWATERED WILL BE PUMPED INTO AN ACTIVE DRAINAGE SYSTEM. BOTH THE INLET AND OUTLET OF THE PUMPS SHOULD BE FILTERED AND PROTECTED FROM SURGE ACTION. IN THE EVENT ON CONFLICT BETWEEN THESE PLANS AND OTHER REGULATIONS, THE MORE STRINGENT SHALL APPLY.

THE CONSTRUCTION INSPECTION SCHEDULE SHALL BE DEVELOPED WITH THE PUBLIC WORKS DEPARTMENT AND THE TOWN ENGINEER PRIOR TO THE START OF CONSTRUCTION.



HAYBALE BARRIER
NOT TO SCALE

II. CONSTRUCTION SEQUENCE AND DETAILED EROSION CONTROL MEASURES

1. A REGISTERED LAND SURVEYOR SHALL FIELD STAKE THE CENTER LINE OF THE NEW ROAD.
2. UPON COMPLETION OF THE FIELD STAKING, EXISTING TREES WHICH ARE TO BE SAVED ARE TO BE FLAGGED AND PROTECTED. ALL REMAINING VEGETATION INCLUDING OVERHANGING LIMBS FROM TREES TO BE SAVED SHALL BE CHIPPED AND SUCH CHIPS STORED IN NON-GRADED AREAS ALONG THE RIGHT OF WAY FOR FUTURE USE AS MULCH. CORD WOOD AND/OR TIMBER FROM APPROPRIATE CLEARED AREAS SHALL BE REMOVED FROM THE SITE. EROSION AND SEDIMENT MEASURES SHALL BE INSTALLED AS APPROPRIATE PRIOR TO ANY SITE DISTURBANCE.
3. STUMPING SHALL COMMENCE ALONG THE PROPOSED ACCESS ROAD WITHIN AREAS STAKED BY THE SURVEYOR AND CLEARED IN TASK 2 ABOVE. LOAM SHALL BE STRIPPED FROM THE CLEARED AREA AND STOCKPILED JUST OUTSIDE THE DRIVEWAY GRADING LIMITS AT INTERVALS NOT EXCEEDING 300 FEET, AND RINGED WITH HAY BALES ON THE DOWN GRADIENT SIDE OF THE STOCKPILE UPON STRIPPING THE BALANCE OF THE DRIVEWAY. THE ANIT-TRACKING PAD SHALL BE INSTALLED. THIS ANTI-TRACKING PAD SHALL BE MAINTAINED AND REPLACED AS NECESSARY WHEN NO LONGER EFFECTIVE IN PREVENTING TRACKING OF MATERIALS OFF SITE.
4. THE ROADWAY SHALL BE BROUGHT TO ROUGH GRADE AND SILT FENCE CHECK DAMS SHALL BE PLACED IN THE GUTTERS OF THE CROWNED PAVEMENT AT 100' INTERVALS (MAXIMUM), AS SHOWN UPON THE PLAN, OR MORE FREQUENTLY AS REQUIRED AND DIRECTED BY THE ENGINEER.
5. INSTALLATION OF STORM DRAINAGE.
6. ROADWAY SHOULDERS IN BOTH CUT AND FILL AREAS SHALL BE FINE GRADED IN ACCORDANCE WITH "III GENERAL NOTES".
7. UNDERGROUND UTILITIES (GAS,WATER,TELEPHONE, ELECTRIC AND CABLE) SHALL BE INSTALLED NEXT.
8. FOLLOWED BY THE PLACEMENT OF THE PROCESS GRAVEL BASE, AND BITUMINOUS PAVEMENT. THE SHOULDERS OF THE ROADWAY SHALL BE FINE GRADED, LOAM AND SEEDED,AS SPECIFIED UNDER "IV. GENERAL NOTES".

III. SITE DEVELOPMENT

IN ADDITION TO THE RECOMMENDATIONS FOR THE INDIVIDUAL PHASES OF THE DEVELOPMENT, THE FOLLOWING PROCEDURES SHALL APPLY TO INDIVIDUAL STRUCTURES BEING DEVELOPED.
1. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD FOR EACH PROPOSED RESIDENTIAL STRUCTURE. MAXIMUM DISTURBANCE LIMITS OF 25-35 FT BEYOND THE PHYSICAL DIMENSIONS OF THE STRUCTURE AND RELATED APPURTENANCES IS RECOMMENDED.
2. TOPSOIL AND EXCAVATED SUBSOIL FROM THE FOUNDATION AREA SHALL BE STOCKPILED WITHIN THE AREA OF DISTURBANCE IF NOT USED FOR ON SITE REGRADING. EACH STOCKPILE SHALL BE ADEQUATELY RINGED ON THE DOWN GRADIENT SIDE WITH SEDIMENT CONTROL MATERIALS (i.e. HAY BALES AND/OR FABRIC FENCE).
3. ANY ADDITIONAL STOCKPILING OF LUMBER AND BUILDING MATERIALS SHALL BE CONFINED TO THE AREA OF DISTURBANCE, SIMILARLY, VEHICULAR MOVEMENT SHALL BE DIRECTED TO ESTABLISHED PARKING AREAS.

IV. GENERAL NOTES

SEED BED PREPARATION

FINE GRADE AND RAKE SOIL SURFACE TO REMOVE STONES LARGER THAT 2-INCH IN DIAMETER. INSTALL NEEDED EROSION CONTROL DEVICES SUCH AS SURFACE WATER DIVERSIONS. APPLY LIMESTONE AT A MINIMUM RATE OF 2 TONS PER ACRE OR 40 LBS. PER 1000 SQUARE FEET. FERTILIZE WITH 10-10-10 AT THE RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 12000 SQUARE FEET. WORK LIME AND FERTILIZER INTO SOIL UNIFORMLY TO A DEPTH OF 4 INCHES WITH A WISK, SPRINGTOOTH HARROW OR OTHER SUITABLE EQUIPMENT FOLLOWING THE CONTOUR LINES.

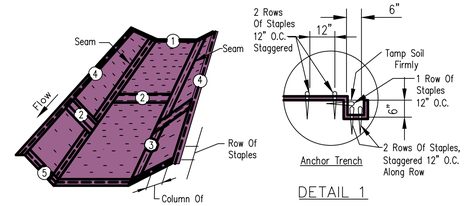
SEED APPLICATION

APPLY GRASS SEE MIXTURE BY HAND, CYCLONE SEEDER OR HYDROSEEDER. INCREASE SEED MIXTURE BY 10 PERCENT IF HYDROSEEDING. LIGHTLY DRAG OR ROLL THE SEEDED SURFACE TO COVER SEED. SEEDING SHOULD BE DONE BETWEEN APRIL 1 AND JUNE 1, OR BETWEEN AUGUST 15 AND OCTOBER 15. IF SEEDING CANNOT BE DONE DURING THESE TIMES, REPEAT MULCHING PROCEDURE UNTIL SUCH TIMES AS SEEDING CAN TAKE PLACE. THE TYPE OF SEED MIXTURE SHALL BE DETERMINED FROM FIGURES 6-2 AND 6-3 OF THE "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".

MULCHING

IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEEDED SURFACE WITH STRAW OR HAY AT A RATE OF 1.5 TO 2 TONS PER ACRE. SPREAD MULCH BY HAND OR MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE WITH TRACK MACHINE OR DISH HARROW SET STRAIGHT. MULCH MATERIAL SHOULD BE "SET" INTO SOIL SURFACE APPROXIMATELY 2-3 INCHES.

DURING CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF OWNER TO INSURE THE IMPLEMENTATION OF THIS EROSION AND SEDIMENT CONTROL PLAN. A BI - WEEKLY INSPECTION OF THE SITE SHALL BE PERFORMED TO INSURE COMPLIANCE WITH THIS SEDIMENT AND EROSION PLAN. A BI - WEEKLY INSPECTION REPORT SHALL BE SUBMITTED TO THE CITY'S AGENT. THIS RESPONSIBILITY INCLUDES INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PROPERTIES ENGAGED ON THE SITE OF REQUIREMENTS AND OBJECTIVES OF THIS PLAN, NOTIFYING THE CITY'S AGENT OF ANY TRANSFERS OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF AND WHEN TITLE OF LAND IS TRANSFERRED.

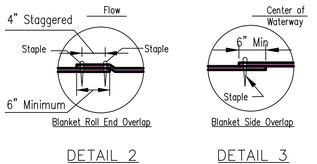


DETAIL 1

EROSION CONTROL BLANKET
NOT TO SCALE

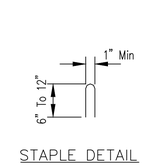
ECB MAY BE REQUIRED ON 2:1 OR STEEPER SLOPES

NOTES:
1. The erosion control blanket consists of a machine produced mat of specified material. The product must meet the minimum requirements specified in Table 1, below. Ensure that the product is new and unused, and is furnished in rolls. Alternative materials may be used upon approval by the designer.
2. Prepare soil prior to installing erosion control blanket, including seeding, fertilizing, and lime application.
3. The erosion control blanket is to be placed in firm contact with the soil and not be allowed to bridge over surface irregularities. The blanket can not be stretched.
4. Install the erosion control blanket according to manufacturer's instructions. If no manufacturer's instructions are available, install the blanket as follows:
   a. Use "U" shaped staples, 0.12 in diameter wire or greater (#11 gauge). See Staple Detail for dimensions.
   b. Bury upstream end of blanket in a trench 6 inch wide by 6 inch deep and stapled in staggered rows across the width as shown in Detail 1.
   c. For joining ends of rolls, overlap end of upslope blanket a minimum of 6 inches over downslope blanket (shingle style). Use a double row of staggered staples 4 inches apart, as shown in Detail 2.
   d. Overlap blankets on side slopes a minimum 6 inches over the blanket below (shingle style). Staple overlap at 12 inch intervals. See Detail 3.
   e. Staple the outer edge along sides of the blanket every 12 inches. See Detail 4.
   f. Staples are to be placed alternately in columns (in the direction of the waterway) 2 feet apart and in rows (across the waterway) 3 feet apart, throughout the area covered by erosion blanket.
   g. Downstream (terminal) end of blanket are to be stapled with a double row of staggered staples 12 inches apart. See Detail 5.
5. Start laying the blankets by rolling center blanket in the direction of flow, centered on the centerline of waterway. No overlap of blankets at the center of the waterway.



DETAIL 2

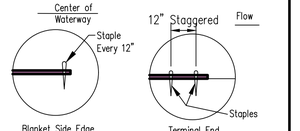
DETAIL 3



STAPLE DETAIL

TABLE 1. MINIMUM REQUIREMENTS FOR EROSION CONTROL BLANKET

(See Note 1)	Coconut Blanket	Wood Fiber Blanket	
Type of Fiber	100% coconut fibers	100% curled wood fibers	
Weight, lbs/sq. yd.	0.50	0.63	
Life Expectancy			
Fiber Length	N/A	80% of fibers > 6 in.	
Fiber Dimensions	N/A	0.021 in. x 0.042 in.	
Netting	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting, bound to the mat on max. 1.5" centers.	Cover Top and bottom of blanket with a max. 5/8" x 5/8" opening size netting	
Netting Required ? ☐ Yes ☐ No			



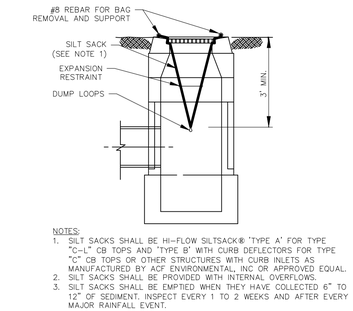
DETAIL 4

DETAIL 5

Not To Scale

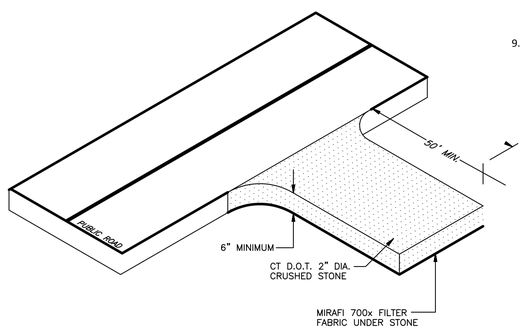
LOT DEVELOPMENT EROSION & SEDIMENT CONTROL NOTES:

1. ALL EROSION & SEDIMENT CONTROL MEASURES TO BE CONSTRUCTED AS DETAILED AND SPECIFIED IN THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL JANUARY 2002 AS AMENDED.
2. ALL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION, PROPERLY MAINTAINED DURING CONSTRUCTION AND REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN PROPERLY STABILIZED. AFTER INSTALLATION OF THE INITIALLY PRESCRIBED MEASURES, ADDITIONAL MEASURES MAY BE REQUIRED TO ADDRESS FIELD CONDITIONS AS ORDERED BY THE STATE OF CONNECTICUT DOT AND THE TOWN OF EAST HAMPTON OR ITS DESIGNATED AGENT(S).
3. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED. THE EXPOSURE SHOULD BE THE SHORTEST PERIOD OF TIME. WHEN NECESSARY TEMPORARY VEGETATION AND OR MULCHING SHOULD BE USED TO PROTECT EXPOSED AREAS. FINAL VEGETATION SHOULD BE INSTALLED AS SOON AS POSSIBLE. WHEREVER FEASIBLE NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED.
4. THE STOCKPILING OF BUILDING MATERIALS SHALL BE WITHIN THE AREA OF DISTURBANCE.
5. SEEDBED PREPARATION: FINE GRADE AND RAKE SOIL TO REMOVE ANY STONES LARGER THAN 2 INCHES. INSTALL ANY NEEDED EROSION CONTROL DEVICES SUCH AS SURFACE WATER DIVERSIONS. APPLY LIMESTONE AT A RATE OF TWO TONS PER ACRE OR 90 POUNDS PER 1000 SQUARE FEET. FERTILIZE WITH 10-10-10 AT A RATE OF 11 POUNDS PER 100 SQUARE FEET. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF FOUR INCHES.
6. SEED APPLICATION: APPLY SHADE TOLERANT GRASS MIXTURE BY HAND, CYCLONE SEEDER OR HYDROSEEDER. SEEDING SHALL BE DONE BETWEEN APRIL 1 AND JUNE 1 OR BETWEEN AUGUST 15 AND SEPTEMBER 1. IF SEEDING CANNOT BE DONE DURING THESE TIMES, REPEAT MULCHING PROCEDURE UNTIL SEED CAN BE DONE.
7. ESTABLISH PERMANENT VEGETATION USING A SEED MIXTURE OF:
   KENTUCKY BLUEGRASS 20 LBS/ACRE
   CREEPING RED FESCUE 20 LBS/ACRE
   PERENNIAL RYE GRASS 5 LBS/ACRE
   TOTAL 45 LBS/ACRE
   THE RECOMMENDED DATES FOR SEEDING ARE APRIL 1 THROUGH JUNE 1 AND AUGUST 15 THROUGH SEPTEMBER 1.
8. MULCHING: IMMEDIATELY FOLLOWING SEEDING, MULCH THE SEEDED SURFACE WITH STRAW OR HAY AT A RATE OF 1.5 TO 2 TONS PER ACRE. MULCH SHALL BE SPREAD BY HAND OR WITH A MULCH BLOWER. PUNCH MULCH INTO SOIL SURFACE APPROXIMATELY TWO TO THREE INCHES.
9. WOOD CHIPS ARE A SUITABLE SUBSTITUTE WITH THE APPROCAL OF THE PUBLIC WORKS DEPARTMENT AND THE TOWN ENGINEER.

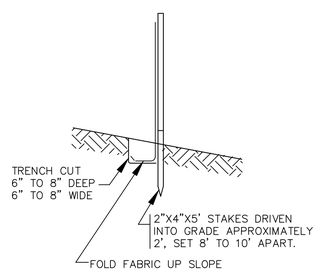


NOTES:
1. SILT SACKS SHALL BE HI-FLOW SILTSACK® "TYPE A" FOR TYPE "C-L" CB TOPS AND "TYPE B" WITH CURB DEFLECTORS FOR TYPE "C" CB TOPS OR OTHER STRUCTURES WITH CURB INLETS AS MANUFACTURED BY ACF ENVIRONMENTAL, INC OR APPROVED EQUAL.
2. SILT SACKS SHALL BE PROVIDED WITH INTERNAL OVERFLOWS.
3. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT. INSPECT EVERY 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.

SILT SACK
NOT TO SCALE



CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:
1. SEDIMENT CONTROL FABRIC TO BE A WOVEN POLYPROPYLENE MATERIAL TREATED TO RESIST DEGRADATION FROM EXPOSED SUNLIGHT.
2. ACCEPTABLE SILT SCREEN FABRIC– "PROPEX SILT STOP" BY AMOCO FABRICS CO.
3. AFTER FOLDING FABRIC EDGE, BACKFILL TRENCH WITH ORIGINAL SOIL.

SILT FENCE INSTALLATION
NOT TO SCALE

Designed By: MAR
Drawn By: SAM
Checked By: MAR
CAD File: 21-033_bndy

Drawing Scale: AS NOTED

Drawing date: 1/6/22

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
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EROSION CONTROL NOTES & DETAILS

PROJECT TITLE: LAKE HAYWARD PRESERVE
EAST HADDAM, CT
LAKE SHORE DRIVE

PREPARED FOR: ANTHONY SILVESTRI

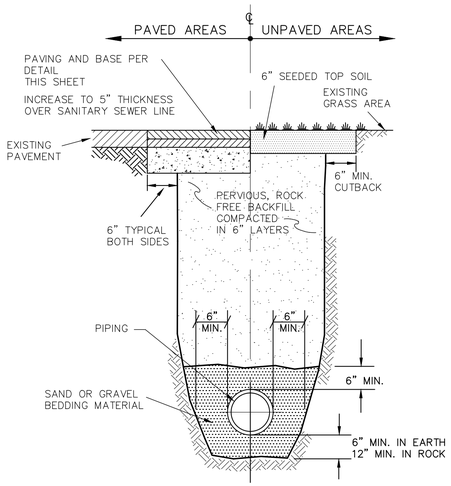
CIVIL ENGINEERING CONSULTANTS
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COLCHESTER, CT
(860) 465-7419
RES
Reynolds Engineering Services, LLC

Drawing #: 20 OF 28

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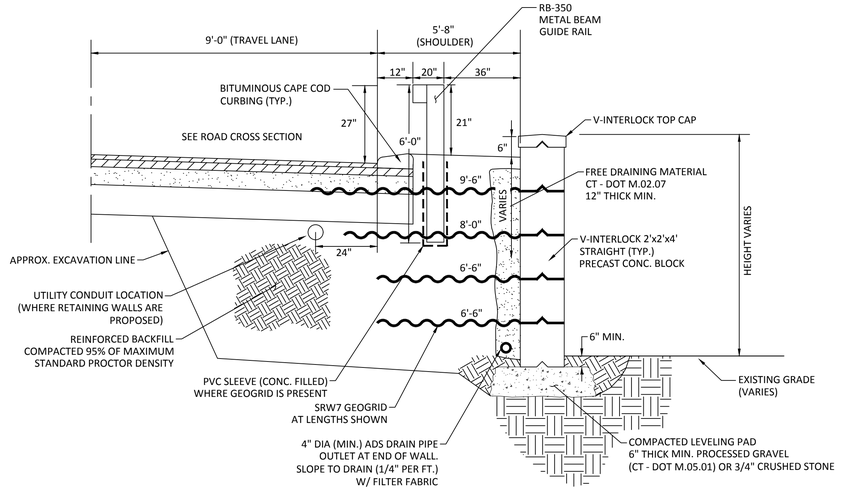
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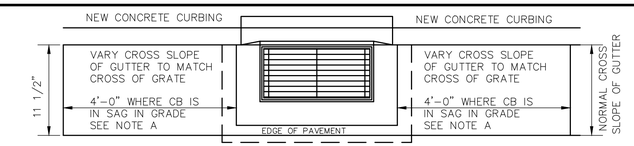
STORM PIPING TRENCHES

NOT TO SCALE

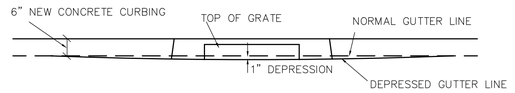


ROADSIDE RETAINING WALL DETAIL

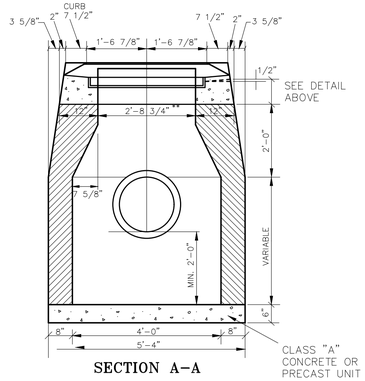
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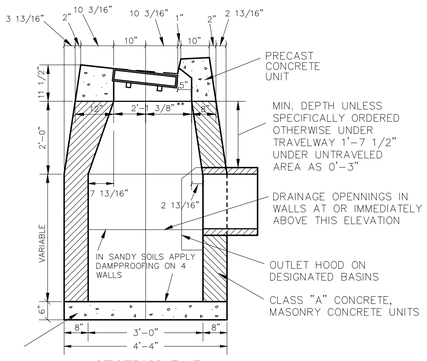
PLAN



PROFILE



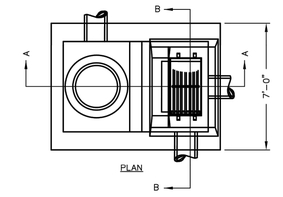
SECTION A–A



SECTION B–B

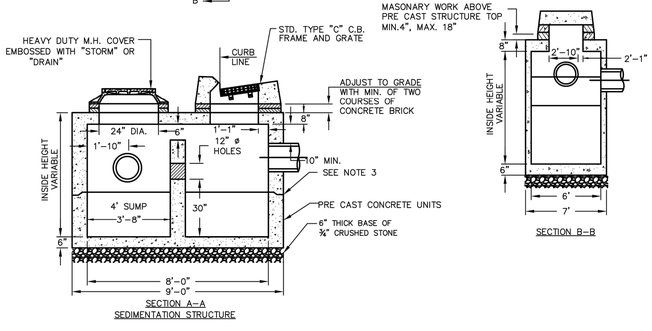
TYPE "C" CATCH BASIN (SINGLE INLET)

NOT TO SCALE



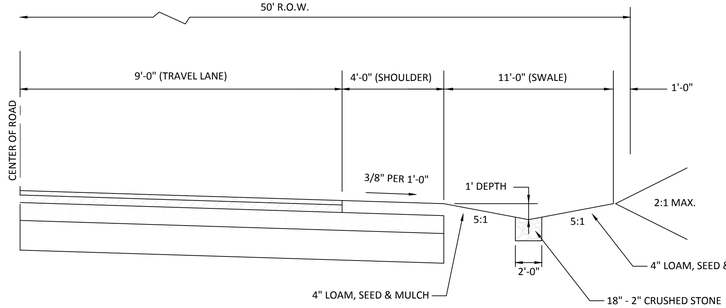
NOTES:

1. BAFFLE CONSTRUCTION TO BE OF CAST MATERIAL WITH THRU HOLES ABOVE OUTLET FLOW LINE OR MORTARED CEMENT BLOCKS WITH WEEP HOLES ABOVE OUTLET FLOW LINE.
2. ADJUST M.H. FRAME TO SUIT REQUIRED FIELD HEIGHT.
3. CONSTRUCTION JOINT – SEALED WITH 1" DIA. BUTYL RUBBER OR ACCEPTABLE EQUIVALENT
4. DESIGN LOADING – AASHTO HS20–44.
5. STEEL REINFORCEMENT – ASTM A–615–75, GRADE 60, 2" MIN. COVER.
6. CONCRETE MINIMUM STRENGTH – 5,000 P.S.I. @ 28 DAYS.
7. MAXIMUM HEIGHT OF EACH ADDITIONAL PIECE 4'–0".
8. MAXIMUM INSIDE HEIGHT FOR 2 PIECE CHAMBER 8'–0".
9. ROOF AND SIDE WALL OPENINGS AS SPECIFIED.
10. STRUCTURE TO BE INSTALLED IN AN "OFFLINE" CONFIGURATION WITH DIVERSION MANHOLES AS PER TOWN PUBLIC IMPROVEMENT STANDARDS.



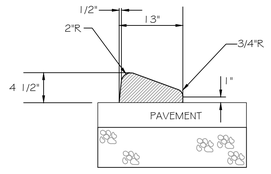
SEDIMENTATION STRUCTURE DETAIL

NOT TO SCALE



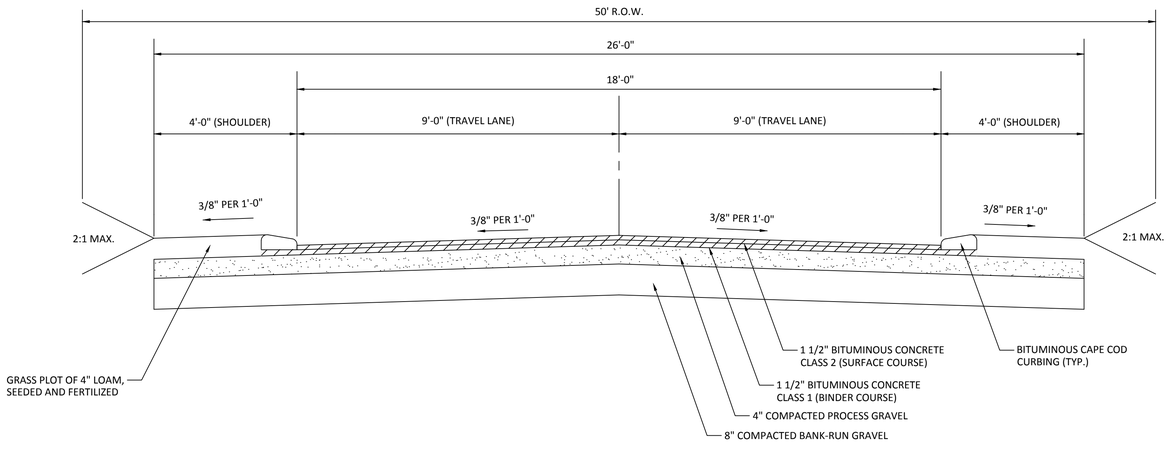
ROADSIDE SWALE DETAIL

NOT TO SCALE



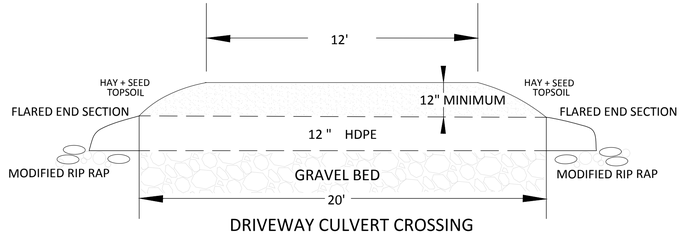
BITUMINOUS CAPE COD CURB

NOT TO SCALE



TYPICAL STREET CROSS SECTION LAYOUT

NOT TO SCALE



DRIVEWAY CULVERT CROSSING
NOT TO SCALE

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GENERAL NOTES & DETAILS

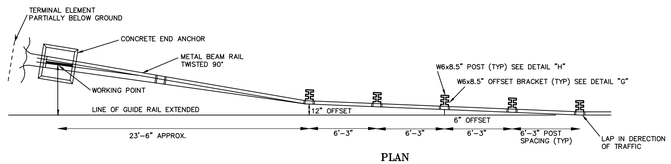
PROJECT TITLE: *LAKE HAYWARD PRESERVE*
LAKE SHORE DRIVE *EAST HADDAM, CT*

PREPARED FOR: *ANTHONY SILVESTRI*

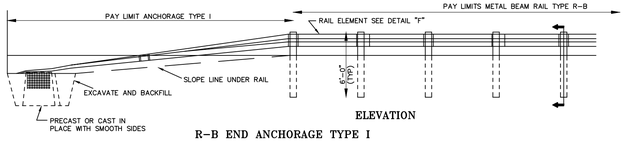
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Drawing #: 21 OF 28

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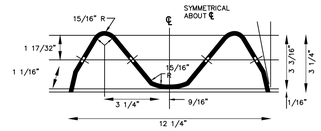


PLAN

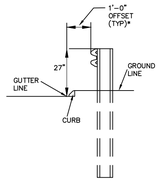


ELEVATION

R-B END ANCHORAGE TYPE I



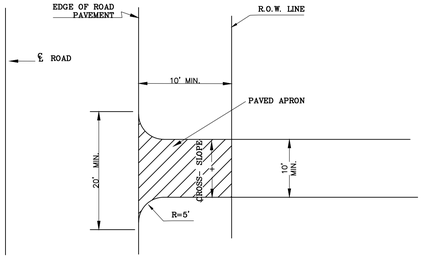
DETAIL "F"
SECTION DETAIL THRU RAIL ELEMENT



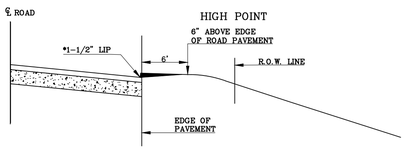
SECTION B-B
HEIGHT WITH CURBING

R-B TYPE METAL GUIDERAIL DETAILS

NOT TO SCALE



PLAN VIEW



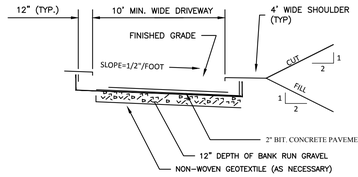
CREST CURVE IN DRIVE

TYPICAL DRIVEWAY ENTRANCE DETAIL

NOT TO SCALE

NOTES:

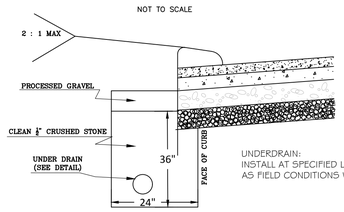
1.) Saw cut irregular pavement edge to match drive apron.
*2.) Provided 1-1/2 inch lip only edge on aprons that abut roads that are curbed.
3.) Driveways must be greater than or equal to 10'.
4.) Driveway grades within the street R.O.W. shall not exceed a grade of 8%.
5.) Any driveway that exceeds a grade of 10% must be paved.



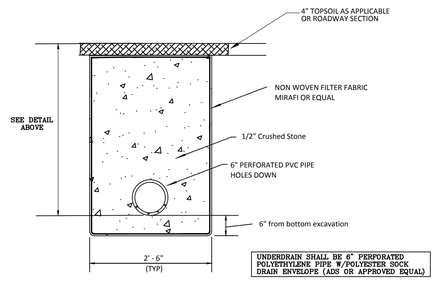
* NOTE: 2" BIT. CONCRETE PAVEMENT REQUIRED WHERE SLOPE EXCEEDS 10%

DRIVEWAY INSTALLATION DETAIL

NOT TO SCALE



UNDERDRAIN:
INSTALL AT SPECIFIED LOCATIONS AS FIELD CONDITIONS WARRANT.

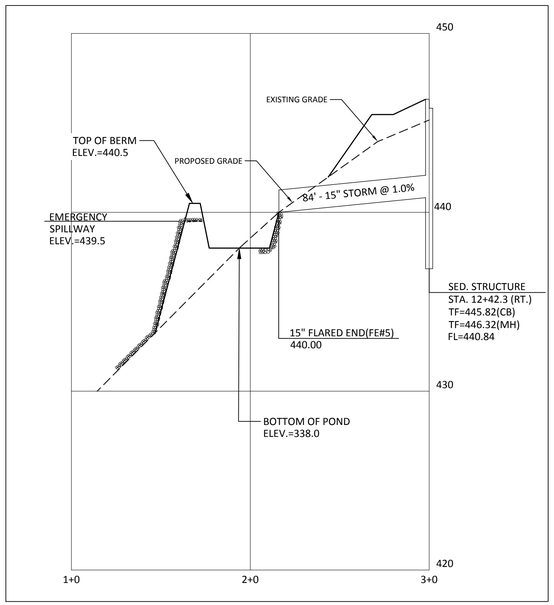


UNDERDRAIN DETAIL

NOT TO SCALE

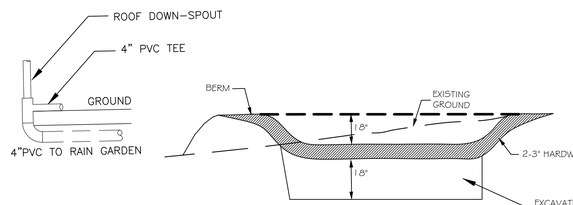
NOTES

1) Processed aggregate base shall conform to Article M.05.01 of Connecticut DOT Form 814A.
2) Sub-base material shall conform to Article M.02.06 gradation B of Connecticut DOT Form 814A.
3) Bituminous paving shall conform to Article 4.06.02 of Connecticut DOT Form 814A.
4) Concrete shall be 4,000 PSI strength.



DETENTION POND CROSS SECTION

NOT TO SCALE



PLANTS SHOULD BE A VARIETY THAT CAN TOLERATE WET CONDITIONS, BUT ALSO VERY DRY CONDITIONS. SOME EXAMPLES ARE: SWAMP AZALEA, BLACK-EYED SUSAN, IRIS, NEW YORK ASTER, AND ROYAL FERN

NOTE:
1. RAIN GARDEN DEPTH IS 18 INCHES.
2. EXCESS RUNOFF IS CALCULATED AS THE DIFFERENCE IN RUNOFF BETWEEN THE SUBDIVISION PRE - DEVELOPMENT SITE DRAINAGE MODEL RUNOFF CURVE NUMBER (56) AND THE PROPOSED COVER. ROOFS (RCN-98), AND DRIVEWAYS (RCN-98) FOR THE 100-YEAR RAINFALL (7.92").

RCN RUNOFF
56 2.72"
61 3.37"
98 7.67"

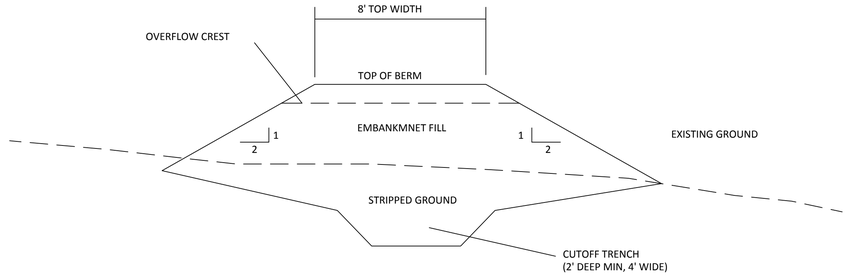
OPERATION AND MAINTENANCE PLAN - RAIN GARDENS

1. THE HOMEOWNER SHALL NOT REMOVE A RAIN GARDEN, SEVER OR RE-ROUTE ANY DRAINAGE LINE LEADING TO THE RAIN GARDEN OR TAKE NAY OTHER ACTION WHICH PREVENT SURFACE RUNOFF FROM REACHING THE RAIN GARDEN AND FLOWING THROUGH IT AS DESIGNED.
2. THE HOMEOWNER SHALL ANNUALLY REMOVE SEDIMENT , LEAVES, LITTER, OR OTHER MATERIALS WHICH MAY HAVE ACCUMULATED IN THE RAIN GARDEN.

RAIN GARDEN SIZING TABLE (CONCEPTUAL DESIGN)

LOT	ROOF (SF)	DRIVEWAY (SF)	LAWN (SF)	EXCESS RUNOFF ROOF/DRIVE (INCHES)	EXCESS RUNOFF LAWN (INCHES)	EXCESS RUNOFF (CF)	PROPOSED RAIN GARDEN DIMENSIONS WIDTH (FT)	LENGTH (FT)	RAIN GARDEN VOLUME (CF)
4	2400	3840	N/A	4.95	N/A	2522	30	40	2700
5	2400	700	N/A	4.95	N/A	1253	30	40	1800
6	2400	1200	N/A	4.95	N/A	1455	30	40	1800
7	2400	1200	N/A	4.95	N/A	1455	30	40	1800
8	2400	600	N/A	4.95	N/A	1213	30	40	1800
9	2400	1000	N/A	4.95	N/A	1374	30	60	1800
10	2400	1000	N/A	4.95	N/A	1374	30	40	1800
11	2400	600	N/A	4.95	N/A	1213	30	40	1800

RAIN GARDEN DETAIL
CROSS SECTION
NOT TO SCALE



EMBANKMENT CROSS SECTION FOR RETENTION AREA

(NOT TO SCALE)

NOTES:

1. THE FOUNDATION FOR THE EMBANKMENT SHALL BE STRIPPED TO REMOVE VEGETATION, ORGANIC SOILS AND UNSUITABLE SUB SOILS.

2. THE STRIPPED FOUNDATION SHALL BE SCARIFIED PARALLEL TO THE AXIS OF THE FILL.

3. THE EMBANKMENT FILL SHALL SUITABLE SILTY SANDS (USCS SM).

4. EMBANKMENT FILL SHALL CONTAIN NO STONE GRATER THAN 3" AND SHALL MEET THE FOLLOWING GRADATION:
#4 SIEVE 75-90% PASSING BY WEIGHT
#10 SIEVE 65-90% PASSING BY WEIGHT
#40 SIEVE 50-85% PASSING BY WEIGHT
#200 SIEVE 10-50% PASSING BY WEIGHT

5. PRIOR TO EMBANKMENT FILL PLACEMENT, REPRESENTATIVE SAMPLES OF THE PROPOSED BORROW MATERIAL SHALL BE TESTED BY A QUALIFIED SOIL TESTING LABORATORY TO DETERMINE THE OPTIMUM MOISTURE CONTENT AND MAXIMUM DENSITY.

6. THE EMBANKMENT FILL SHALL BE PLACED IN A MAXIMUM LIFT THICKNESS OF NINE INCHES.

7. DURING PLACEMENT OF THE EMBANKMENT FILL, THE MOISTURE CONTENT OF THE MATERIALS BEING PLACED SHALL BE MAINTAINED WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT.

8. THE EMBANKMENT FILL SHALL BE COMPACTED AS NECESSARY TO A MINIMUM OF 95% MAXIMUM DENSITY BY ASTM D 1557, MODIFIED PROCTOR.

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GENERAL NOTES & DETAILS

PROJECT TITLE: LAKE HAYWARD PRESERVE
LAKE SHORE DRIVE EAST HADDAM, CT

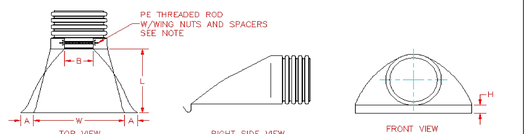
PREPARED FOR: ANTHONY SILVESTRI

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Drawing #: 22 OF 28

Job #: 21-033

FLARED END SECTIONS



PART #	PIPE SIZE	A	B(MAX)	H	L	W
1015NP	10 in (250 mm)	3.8 in (95 mm)	10.0 in (254 mm)	6.5 in (165 mm)	28.0 in (711 mm)	34.5 in (876 mm)
1215NP	12 & 15 (300 & 375mm)	6.5 in (165 mm)	10.0 in (254 mm)	6.5 in (165 mm)	25.0 in (635 mm)	29.0 in (737 mm)
1810NP	18 in (450 mm)	7.5 in (191 mm)	15.0 in (381 mm)	6.5 in (165 mm)	32.0 in (813 mm)	35.0 in (889 mm)
2410NP	24 in (600 mm)	7.5 in (191 mm)	18.0 in (457 mm)	6.5 in (165 mm)	36.0 in (914 mm)	45.0 in (1143 mm)
3015NP	30 in (750 mm)	7.5 in (191 mm)	12.0 in (305 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)
3615NP	36 in (900 mm)	7.5 in (191 mm)	25.0 in (635 mm)	8.6 in (218 mm)	58.0 in (1473 mm)	63.0 in (1600 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

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ADS Advanced Drainage Systems, Inc.

DRAWING #:	6070	
DRAWN BY:	JCB	01.17.07
APPROVED BY:	JCB	06.28.07
REVISIONS:	TJR	6/7/2016

STANDARD CATCH BASIN COMPONENTS

CATCH BASIN TOP
TYPE "C" CONC CURB TOP SHOWN. ADDITIONAL TOPS AVAILABLE.

CORBEL
HEIGHTS AVAILABLE:
6", 8" OR 12"

RISER
HEIGHTS AVAILABLE:
2" to 6'-0"
12" STOCK
18" STOCK
24" STOCK

TRANSITION
HEIGHTS AVAILABLE:
18" STOCK
24" STOCK
30" STOCK
36" STOCK
48" STOCK

SUMP
HEIGHT:
INSIDE 18"
OUTSIDE 24"

BASE SLAB
HEIGHT:
6"

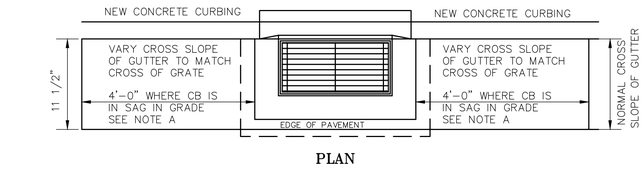
COR-TRANS
HEIGHTS AVAILABLE:
24" STOCK
30" STOCK
36" STOCK
48" STOCK

NOTES:
1. REINFORCING STEEL WELDED WIRE FABRIC CONFORMS TO LATEST ASTM SPECIFICATION A185.
2. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615/A706.
3. CONCRETE COMPRESSIVE STRENGTH= 4000 PSI AT 28 DAYS.
3. METHOD OF MANUFACTURE: WET CAST.
5. SECTION IS MONOLITHIC.
6. DESIGN LOAD: AASHTO H-20

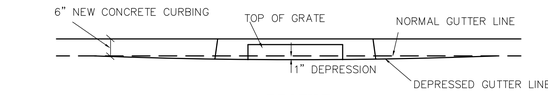
WEIGHT CHART

PRODUCT	APPROX WEIGHT
6" BASE SLAB	1750 LBS.
SUMP	4100 LBS.
18" TRANSITION	3250 LBS.
24" TRANSITION	4500 LBS.
30" TRANSITION	4500 LBS.
36" TRANSITION	3250 LBS.
48" TRANSITION	4500 LBS.
12" RISER	1700 LBS.
18" RISER	2500 LBS.
24" COR-TRAN	2700 LBS.
30" COR-TRAN	3150 LBS.
36" COR-TRAN	3600 LBS.
48" COR-TRAN	4900 LBS.
6" CORBEL	1000 LBS.
12" CORBEL	1800 LBS.
18" CORBEL	2600 LBS.

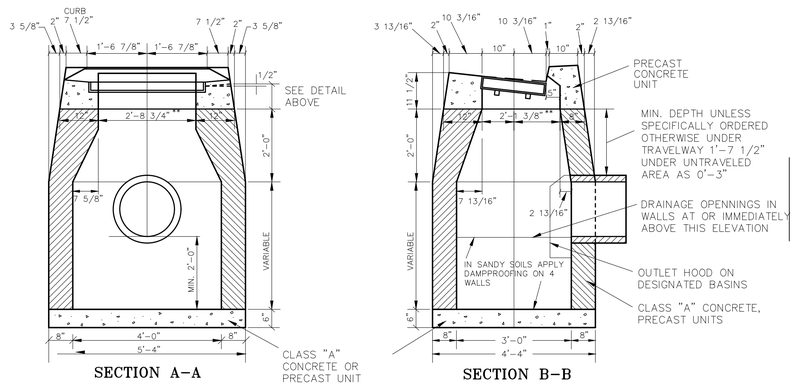
UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET YALESVILLE, CT 06492
TEL. 800 234-3119 (203) 269-3119
FAX. (203) 265-4941



PLAN



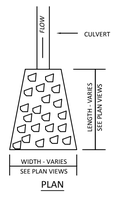
PROFILE



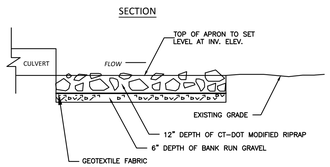
SECTION A-A SECTION B-B

TYPE "C" CATCH BASIN (SINGLE INLET)

NOT TO SCALE



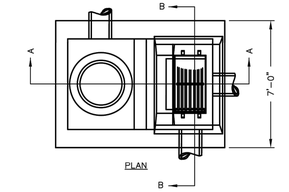
PLAN



ROCK APRON DETAIL

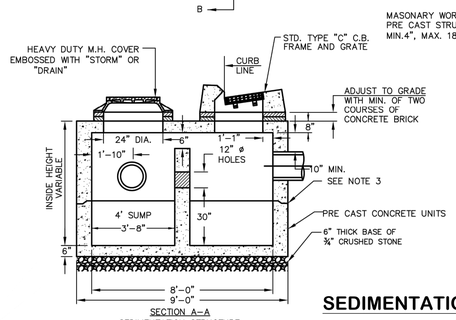
NOT TO SCALE

ROCK APRON TABLE		
APRON	LENGTH (ft.)	WIDTH (ft.)
1	14	17
2/2A	8	15
3/3A	26	32
4	13	17
5	19	23
6	14	17
7	11	15



PLAN

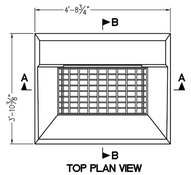
NOTES:
1. BAFFLE CONSTRUCTION TO BE OF CAST MATERIAL WITH THRU HOLES ABOVE OUTLET FLOW LINE OR MORTARED CEMENT BLOCKS WITH WEEP HOLES ABOVE OUTLET FLOW LINE.
2. ADJUST M.H. FRAME TO SUIT REQUIRED FIELD HEIGHT.
3. CONSTRUCTION JOINT – SEALED WITH 1" DIA. BUTYL RUBBER OR ACCEPTABLE EQUIVALENT
4. DESIGN LOADING – AASHTO HS20-44.
5. STEEL REINFORCEMENT – ASTM A-615-75, GRADE 60, 2" MIN. COVER.
6. CONCRETE MINIMUM STRENGTH – 5,000 P.S.I. @ 28 DAYS.
7. MAXIMUM HEIGHT OF EACH ADDITIONAL PIECE 4'-0".
8. MAXIMUM INSIDE HEIGHT FOR 2 PIECE CHAMBER 8'-0".
9. ROOF AND SIDE WALL OPENINGS AS SPECIFIED.
10. STRUCTURE TO BE INSTALLED IN AN "OFFLINE" CONFIGURATION WITH DIVERSION MANHOLES AS PER TOWN PUBLIC IMPROVEMENT STANDARDS.



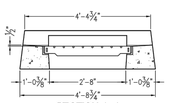
SEDIMENTATION STRUCTURE DETAIL

NOT TO SCALE

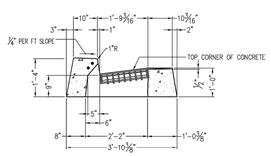
TYPE "CC" CATCH BASIN TOP



TOP PLAN VIEW



SECTION A-A



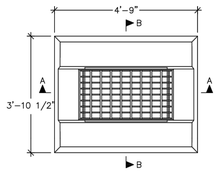
SECTION B-B

WEIGHT CHART

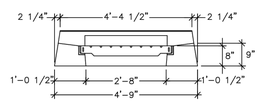
PRODUCT	APPROX WEIGHT
TYPE "C" TOP	1900 LBS

UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET YALESVILLE, CT 06492
TEL. 800 234-3119 (203) 269-3119
FAX. (203) 265-4941

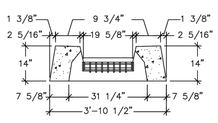
TYPE "CG" CATCH BASIN TOP



TOP PLAN VIEW



SECTION A-A



SECTION B-B

WEIGHT CHART

PRODUCT	APPROX WEIGHT
TYPE "CG" TOP	4000 LBS.

UNITED CONCRETE PRODUCTS INC.
173 CHURCH STREET YALESVILLE, CT 06492
TEL. 800 234-3119 (203) 269-3119
FAX. (203) 265-4941

NOTE: ALL CATCH BASINS TO BE PROVIDED WITH GALVANIZED STEEL GRATES

Designed By: MAR
Drawn By: SAM
Checked By: MAR
CAD File: 21-033_bndy

Drawing Scale: AS NOTED

Drawing date: 1/6/22

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

GENERAL NOTES & DETAILS

PROJECT TITLE: *LAKE HAYWARD PRESERVE*
EAST HADDAM, CT
LAKE SHORE DRIVE

PREPARED FOR: *ANTHONY SILVESTRI*

RES
CIVIL ENGINEERING CONSULTANTS
63 NORWICH AVENUE: SUITE 202
COLCHESTER, CT
(860) 465-7419
Reynolds Engineering Services, LLC

ROB HELLSTROM LAND SURVEYING LLC
32 MAIN STREET
HEBRON, CT., 06248
(860) 228-9853
hellstromsurveying@yahoo.com
www.RHLSCT.com

Mailing Address:
P.O. BOX 378
HEBRON, CT. 06248

Drawing #: 23 OF 28

Job #: 21-033

FORM #2 State of Connecticut Department of Public Health Application/Permit No._____ 1/1/04

SITE INVESTIGATION FOR A SEWAGE DISPOSAL SYSTEM

Property Owner:**Gregan**

Location: Lake Shore/East Shore Rd East Haddam
Map 087 Lot 142 & 143

DEEP TEST PIT DATA/SOIL DESCRIPTIONS

DATE: 10/20/2020

(Record all Test Pits)

Holes Observed By Liz Davidson RS And Don Mitchell

TEST PIT: 1	TEST PIT: 2	TEST PIT: 3	TEST PIT: 4
0"-7" Topsoil 7"-20" Orange brown fine silty loam with gravel 20"-67" Red brown grading to grey, cobbly sand and gravel 67"-88" Light brown shisty fine sand	0"-9" Topsoil 9"-21" Med coarse orange brown sand and gravel 21"-95" Grey fine silty sand with gravel; Loose 21"-38"	0"-8" Topsoil 8"-17" Med to coarse red brown sand with gravel 17"-38" Orange brown coarse gravely sand 38"-53" Cobbles and sand 53"-64" Grey coarse sand and gravel 64"-89" Dark brown cobbly sand and gravel	0"-7" Topsoil 7"-20" Brown fine silty loam 20"-41" Med and coarse brown/orange sand 41"-58" Layers of stratified sand and gravel, orange staining 58"-88" Cobbles with coarse sand and gravel 88"-100" Decomposed Ledge
Mottles: No	Mottles: No	Mottles: Spotty staining 47"	Mottles: 63" possible
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 46"	Roots: 84"	Roots: 47"	Roots: 63"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 5	TEST PIT: 6	TEST PIT: 7	TEST PIT: 8
0"-9" Topsoil 9"-21" Red brown fine silty loam 21"-37" Fine tan sand with gravel 37"-90" Grey sandy till, orange staining	0"-9" Topsoil 9"-16" Red brown fine silty loam 16"-33" Light brown/tan fine sand with silt and gravel 33"-96" Gravelly sand	0"-7" Topsoil 7"-24" Light orange brown fine sandy loam 24"-35" Tan silty very fine sand with gravel 35"-95"Grey fine sandy till with gravel	0"-11" Topsoil 11"-24" Red brown fine sandy loam with gravel 24"-31" Light tan fine silty sand with gravel 31"-49" Orange brown coarse sand with gravel 49"-85" Cobbly sand and gravel 85"-106" Grey silty sand with stones and gravel
Mottles: No	Mottles: 64"	Mottles: No	Mottles: No
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 73"	Roots: 47"	Roots: 41"	Roots: some 60"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 9	TEST PIT: 10	TEST PIT: 11	TEST PIT: 12
0"-10" Topsoil 10"-19" Orange brown fine medium silty loam 19"-34" Tan silty fine sand 34"-96" Light grey sandy till	0"-7" Topsoil 7"-19" Red orange brown fine to medium silty loam 19"-34" Light tan fine silty sand 34"-57" Gravelly coarse sand 57"-84" Rotten rock	0"-6" Topsoil 6"-17" Brown fine silty loam 17"-38" Light olive brown fine to medium sand with gravel 38"-99" Brown/grey decomposed rotten rock, sandy texture	0"-8" Topsoil 8"-18" Brown fine sandy loam 18"-32" Light tan very fine silty sand, firm 32"-113"Orange brown gravelly coarse sand stratified in layers
Mottles: No	Mottles: No	Mottles: No	Mottles: 42" some stratified between layers not continuous around hole
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 50"	Roots: 47"	Roots: Some 51"	Roots: 41"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 13	TEST PIT: 14	TEST PIT: 15	TEST PIT: 16
0"-14" Topsoil 14"-22" Red brown fine sandy loam 22"-52" Light brown/tan firm very fine sand with silt/ trace light brown gravel with roots 52"-101" Brown orange gravely coarse sand	0"-6" Topsoil 6"-18" Brown fine silty loam 18"-27" Light brown fine sand with silt and gravel 27"-88" Gravelly coarse sand wit cobbles 88"-98" Very fine very light brown/silver sand	0"-10" Topsoil and leaf 10"-17" Brown fine silty loam 17"-26" Light brown/tan very fine sand 26"-84" Orange brown gravelly coarse sand 84"-96" Medium sand	0"-5" Topsoil and leaf litter 5"-14" Light brown fine silty loam with gravel 14"-35" Gravelly brown orange fine o medium sand, very loose 35"-47" Light orange brown loose fine to coarse sand with gravel dry 47"-84" orange brown cobbly sand and gravel
Mottles: No	Mottles: No	Mottles: No	Mottles: No
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 49"	Roots: 66"	Roots: 30	Roots: 30"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

Groundwater table: (Near max, below max etc.) Below Max

Soil Moisture (High, medium, low etc.) Low

Date 10.21.2020- Next Day Holes Observed By Liz Davidson RS And Emily Miller

TEST PIT: 17	TEST PIT: 18	TEST PIT: 19	TEST PIT: 20
0-5" -Topsoil 5-33" -Brown grading to light brown sandy loam 33-97" -Cobbly Coarse sand and gravel	0"-7" -Topsoil 7"-25" -Red Brown fine loam grading to light brown 25"-90"-Light grey/light brown fine silty sand, moderately compact with some cobbles and more gravel	0"-5" -Topsoil 5"-16"-Brown Fine silty loam with gravel 16"-27"-Olive brown silty loam with gravel 27"-90"-light grey/light brown fine to medium silty sand, moderately compact	0"-7"-Topsoil 7"-16" -Brown fine silty loam 16"-27" -Olive brown silty loam with gravel 27"-100" Grey fine to medium silty sand, compact with rocks
Mottles: 70"	Mottles: 41"	Mottles: Staining at 33"	Mottles: 43" faint staining
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 29"	Roots: 45"	Roots: 50"	Roots: 45"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 21	TEST PIT: 22	TEST PIT: 23	TEST PIT: 24
0"-6" -Topsoil 6"-28" -Brown orange fine to medium silty loam with gravel 28"-92" -Grey compact sandy hardpan with rocks and gravel	0"-7" -Topsoil 7"-19"- Red Brown Fine silty loam 19"-57" -Light brown fine sand, some silt with rocks and stones, firm	0"-7"-Topsoil 7"-27"-Red brown fine silty loam grading to brown. 27"-83"-Grey brown fine silty schisty sand with stones and gravel. Rocks and large boulders throughout.	0"-10"-Topsoil 10"-22"-Red brown fine silty loam with cobbles 22"-88"-Cobbly sand and gravel , medium and coarse some silt
Mottles: 37"	Mottles: 34"	Mottles:40" Staining	Mottles: No
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: 57"	Ledge: No	Ledge: No
Roots: 46"	Roots: 35"	Roots: 47"	Roots: Most to 29"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 25	TEST PIT: 26	TEST PIT: 27	TEST PIT: 28
0"-7"-Topsoil 7"-17"-Red brown fine silty loam with cobbles 17"-91"-Cobbly sand and gravel, medium and coarse some silt	0"-5"-Topsoil 5"-23"-Red Brown grading to light brown silty loam 23"-56"-Cobbly sand and gravel, fine to medium 56"-93"-Light brown fine silty sand	0"-6"-Topsoil 6"-13"-Brown medium silty sand with stones 13"-28"-Orange Brown gravelly coarse sand 28"-38"-Medium orange brown clean sand 38-45"-Medium to coarse sand with stones 45"-94"-Stratified layers of orange brown medium sand and light brown fine sand, firm	0"-6"-Topsoil 6"-18"Medium brown silty loam with gravel 18"-40" Medium to coarse sand with cobbles and gravel 40"-91"-Tan/light brown fine silty sand with gravel
Mottles: No	Mottles: 54"	Mottles: 45"	Mottles: 53"
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 30"	Roots: 65"	Roots: 45"	Roots: 40"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 29	TEST PIT: 30	TEST PIT: 31	TEST PIT: 32
0"-7" -Topsoil 7"-18"-Red brown fine silty loam with cobbles and some gravel 18"-52"Cobbly sand and gravel 52"-89"-Mottled Orange brown and Grey, clean medium sand	0"-5"-Topsoil 5"-9"-Light brown Silty loam 9"-18"-Light brown clean sand 18"-100"-Firm light brown/light grey fine sandy loam with silty orange stratification throughout	0"-4" Topsoil 4"-80 Medium to coarse light brown clean sand *Possibly filled in stump with previous test hole. Upper portion of hole is damp	0"-4" -Topsoil 4"-29"-light brown medium to coarse sand with gravel and silt 29"-73" light brown/tan medium to coarse sand, linear striations
Mottles: 52"	Mottles: No	Mottles: No	Mottles: No
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 50"	Roots: 85"	Roots: @ 77" significant roots	Roots: 61"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: 33	TEST PIT: 34	TEST PIT: 35	TEST PIT: 36
0"-4" -Topsoil 4"-43"- light brown fine silty sand 43"-84" -Stratified layers of light brown and orange fine silty sand	0"-1"-Topsoil 1"-5"-Brown coarse sand with small gravel 5"-90"-Light brown/tan medium to coarse sand	0"-7"- Topsoil (sandy with stones) 7"-41"-Medium light orange brown sand 41"-75"-Light orange brown fine sand with silt	0"-1"-Topsoil (sandy) 1"-20"-Brown coarse sand with gravel 20"-78"-Light brown/tan medium to coarse sand
Mottles: No	Mottles: No	Mottles: No	Mottles:No
GW: No	GW: No	GW: No	GW: No
Ledge: No	Ledge: No	Ledge: No	Ledge: No
Roots: 75"	Roots: 60"	Roots: 50"	Roots: 50"
Restrictive:	Restrictive:	Restrictive:	Restrictive:

TEST PIT: **33B**
0"-2"-Topsoil 2"-22"-Brown orange coarse sand and gravel with cobbles 22"-70"-Medium to coarse light brown sand LEFT SIDE: loose, less staining RIGHT SIDE: More firm and staining
Mottles: NO
GW: NO
Ledge: NO
Roots: 63"
Restrictive:

DESIGN RECOMMENDATIONS/COMMENTS:

1. **Testing conducting for a 8-9 lot proposed subdivision**
2. **Perc to be done by PE or LS (2 min per lot)**
3. **Locations to be surveyed by LS.**
4. **All holes labeled by LS on site**

PERCOLATION TESTS PERFORMED BY MARK REYNOLDS, PE (SEPTEMBER 8-14, 2022)

PERCOLATION TEST 1P

HOLE DEPTH: 20"

TIME	DEPTH	
12:04	7.5"	PRESOAK
1:02	DRY	
2:02	8"	
2:12	11 1/4"	
2:22	13 1/8"	
2:32	14 1/2"	
2:42	15 7/8"	
2:52	16 5/8"	
3:02	17 3/8"	
3:12	18 1/4"	
3:22	18 7/8"	
3:32	19 3/4"	

PERC RATE: 11.4 min./inch

PERCOLATION TEST 1R

HOLE DEPTH: 22.5"

TIME	DEPTH	
12:06	8.5"	PRESOAK
12:52	DRY	
2:05	9 3/4"	
2:15	13 3/4"	
2:25	16"	
2:35	18"	
2:45	19 1/8"	
2:55	20 5/8"	
3:05	21 3/4"	

PERC RATE: 8.9 min./inch

PERCOLATION TEST 2P

HOLE DEPTH: 19.5"

TIME	DEPTH	
12:28	6.5"	PRESOAK
1: 18	DRY	
2:07	7"	
2:17	11.5"	
2:27	13 1/8"	
2:37	14 3/8"	
2:47	15 3/4"	
2:57	17 1/2"	
3:07	19"	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 2R

HOLE DEPTH: 24"

TIME	DEPTH	
12:35	11"	PRESOAK
1: 18	DRY	
2:18	11.5"	
2:28	15 7/8"	
2:38	18 1/4"	
2:48	20"	
2:58	21 5/8"	
3:08	23"	

PERC RATE: 7.3 min./inch

PERCOLATION TEST 3P

HOLE DEPTH: 20.5"

TIME	DEPTH	
1:22	8.5"	PRESOAK
1: 55	DRY	
3:16	7 3/4"	
3:26	12 1/2"	
3:36	15 1/4"	
3:46	17 3/8"	
3:56	18 3/4"	
4:06	19 3/4"	

PERC RATE: 10 min./inch

PERCOLATION TEST 3R

HOLE DEPTH: 20"

TIME	DEPTH	
1:26	8"	PRESOAK
1: 56	DRY	
3:18	7 "	
3:28	12 3/4"	
3:38	15 5/8"	
3:48	18 1/8"	
3:58	19"	

PERC RATE: 11.4 min./inch

PERCOLATION TEST 5P

HOLE DEPTH: 21.5"

TIME	DEPTH	
1:33	9.5"	PRESOAK
2:40	DRY	
8:54	9"	
9:04	15"	
9:14	17 3/4"	
9:21	19 1/2"	
9:28	21	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 5R

HOLE DEPTH: 21"

TIME	DEPTH	
1:37	9"	PRESOAK
2:40	DRY	
8:55	7.5"	
9:05	13 1/2"	
9:15	15 1/2"	
9:24	17"	
9:31	17 1/2"	
9:38	19 1/8"	
9:45	DRY	

PERC RATE: 4.3 min./inch

PERCOLATION TEST 4P

HOLE DEPTH: 22"

TIME	DEPTH	
2:00	10.0"	PRESOAK
2:40	DRY	
2:45	8"	
2:55	12"	
3:05	15 1/4"	
3:15	17 1/4"	
3:25	18 1/2"	
3:35	19 3/4"	
3:45	21"	
3:55	DRY	

PERC RATE: 8 min./inch

PERCOLATION TEST 4R

HOLE DEPTH: 22"

TIME	DEPTH	
2:02	10.0"	PRESOAK
2:40	DRY	
2:47	8"	
2:57	12 1/2"	
3:07	15 7/8"	
3:17	18"	
3:27	19 1/2"	
3:37	21"	
3:47	DRY	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 6P

HOLE DEPTH: 20"

TIME	DEPTH	
7:51	8"	PRESOAK
8:58	DRY	
9:00	8.5"	
9:10	15 1/4"	
9:20	18 1/4"	
9:27	20"	
9:32	20 1/2"	

PERC RATE: 10 min./inch

PERCOLATION TEST 6R

HOLE DEPTH: 20"

TIME	DEPTH	
7:54	8"	PRESOAK
8:57	DRY	
8:59	7 3/4"	
9:09	13"	
9:19	16 1/8"	
9:26	18 3/4"	
9:31	19 3/4"	

PERC RATE: 5 min./inch

PERCOLATION TEST 7P

HOLE DEPTH: 22"

TIME	DEPTH	
8:36	10"	PRESOAK
9:50	DRY	
10:08	9 3/4"	
10:13	13 5/8"	
10:18	16 1/4"	
10:23	17 5/8"	
10:28	18 3/4"	
10:33	20 1/4"	
10:38	21 3/4"	

PERC RATE: 3.3 min./inch

PERCOLATION TEST 7R

HOLE DEPTH: 22"

TIME	DEPTH	
8:34	10"	PRESOAK
9:53	DRY	
10:09	9 1/8"	
10:14	12 1/8"	
10:19	14"	
10:24	15 1/2"	
10:29	16 7/8"	
10:34	18 3/8"	
10:39	19"	
10:44	19 7/8"	
10:54	21 1/8"	

PERC RATE: 8 min./inch

PERCOLATION TEST 8P

HOLE DEPTH: 19.5"

TIME	DEPTH	
8:41	7.5"	PRESOAK
9:56	DRY	
10:12	7"	
10:17	9 1/2"	
10:22	11"	
10:27	12 1/8"	
10:32	13 3/8"	
10:37	14 1/2"	
10:42	15 5/8"	
10:52	17 1/4"	
11:02	18 3/4	
11:04	DRY	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 9P

HOLE DEPTH: 24"

TIME	DEPTH	
8:38	12"	PRESOAK
9:02	DRY	
9:23	10 1/2"	
9:28	13 1/4"	
9:33	15 1/8"	
9:38	17"	
9:43	18 1/4"	
9:48	19 1/2"	
9:53	20 1/2"	
9:58	22"	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 9R

HOLE DEPTH: 22 1/2"

TIME	DEPTH	
8:40	10 1/2"	PRESOAK
9:18	DRY	
9:25	10 1/2"	
9:30	13 1/4"	
9:35	15 1/8"	
9:40	17"	
9:45	18 1/4"	
9:50	19 1/2"	
9:55	20 1/2"	
10:00	22"	
10:05	20 3/4"	
10:10	21 1/4"	
10:15	22"	
10:17	DRY	

PERC RATE: 6.7 min./inch

PERCOLATION TEST 10P

HOLE DEPTH: 20"

TIME	DEPTH	
8:54	8"	PRESOAK
9:16	DRY	
10:03	6 3/4"	
10:08	16"	
10:11	18 1/2" DRY	

PERC RATE: 2 min./inch

PERCOLATION TEST 10R

HOLE DEPTH: 25 1/2"

TIME	DEPTH	
8:59	13 1/2"	PRESOAK
9:16	DRY	
10:21	12 3/4"	
10:26	19 1/2"	
10:28	21 1/2"	
10:30	22 1/2"	
10:32	22 3/4"	
10:34	23 1/8"	
10:36	24 1/4"	
10:38	24 1/2"	

PERC RATE: 4.0 min./inch

PERCOLATION TEST 11P

HOLE DEPTH: 24"

TIME	DEPTH	
10:38	12"	PRESOAK
11:10	DRY	
11:12	12 3/4"	
11:17	15 5/8"	
11:22	17 1/4"	
11:27	18 1/2"	
11:32	19 3/4"	
11:37	20 7/8"	
11:42	21 3/4"	
11:47	22 7/8"	
11:52	23 1/4"	
11:57	24 3/4"	

PERC RATE: 5.2 min./inch

PERCOLATION TEST 11R

HOLE DEPTH: 24 1/2"

TIME	DEPTH	
10:39	12 1/2"	PRESOAK
11:07	DRY	
11:10	13 1/2"	
11:15	16 7/8"	
11:20	19"	
11:25	20 7/8"	
11:30	21 1/2"	
11:35	22 1/4"	
11:40	23 1/2"	
11:45	24 1/4"	
11:50	24 3/4"	
11:53	25 1/2"	

PERC RATE: 4 min./inch

TEST PIT DATA (6/22/21)
Mark A. Reynolds, P.E.

TP#79
0-5" Topsoil
5-18" Brown Fine Sandy Loam
18-84" Brown med-coarse Sand w/ Gravel

Mottling: None Observed
Groundwater: None Observed
No Ledge Observed

TP#80
0-6" Topsoil
6-19" Brown Fine Sandy Loam
19-87" Brown med-coarse Sand w/ Gravel

Mottling: None Observed
Groundwater: None Observed
No Ledge Observed

TP#81
0-5" Topsoil
5-18" Brown Fine Sandy Loam
18-90" Brown med-coarse Sand w/ Gravel

Mottling: None Observed
Groundwater: None Observed
No Ledge Observed

TP#82
0-6" Topsoil
5-20" Brown Fine Sandy Loam
20-88" Brown med-coarse Sand w/ Gravel

Mottling: None Observed
Groundwater: None Observed
No Ledge Observed

MINIMUM LEACHING SYSTEM SPREAD (MLSS) CHART

(MLSS) = HF x FF x PF
FOR CONCEPTUAL HOUSE SITES

LOT	RECEIVING SOIL DEPTH (in.)	SLOPE (%)	HYDRAULIC FACTOR	FLOW FACTOR (4 BDR)	PERCOLATION FACTOR	MLSS (LINEAR FEET) (4 BDR)
1	23"	3.1-4.0	42	1.75	1.25	92
2	48"	3.1-4.0	26	1.75	1.0	46
3	49"	>15	10	1.75	1.25	22
4	46"	10.1-15.0	14	1.75	1.0	25
5	24"	10.1-15.0	26	1.75	1.0	46
6	37"	>15	16	1.75	1.0	28
7	>60"	8.1-10.0	N/A	1.75	1.0	N/A
8	49"	2.1-3.0	28	1.75	1.0	49
9	>60"	10.1-15.0	N/A	1.75	1.0	N/A
10	31"	8.1-10.0	26	1.75	1.0	46
11	>60"	>15	N/A	1.75	1.0	N/A

SEPTIC DESIGN RECOMMENDATION:

ALL LOTS ARE PROPOSED FOR 4-BEDROOM, SINGLE FAMILY RESIDENCES

LOT 1: 92 LF OF MANTIS 536-8 LEACHING UNITS (ELA PROVIDED 1,012 SF)

LOT 3: 60 LF OF GEOMATIRX GST 6218 (ELA PROVIDED 840 SF)

LOTS: REMAINING LOTS - 60 LF OF GEOMATIRX GST 6212 (ELA PROVIDED 600 SF)

ROB HELLSTROM
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HEBRON, CT., 06248
(860) 228-9853
hellstromsurveyng@yahoo.com
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HEBRON, CT. 06248

Designed By: MAR
Drawn By: SAM
Checked By: MAR
CAD File: 21-033_bndy

Drawing Scale: AS NOTED

Drawing date: 1/6/22

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

SOILS DATA

PROJECT TITLE: LAKE HAYWARD PRESERVE
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: ANTHONY SILVESTRI

CIVIL ENGINEERING CONSULTANTS
63 NORWICH AVENUE, SUITE 202
COLCHESTER, CT
(860) 465-7419
RES
Reynolds Engineering Services, LLC

Drawing #: 24 OF 28

Job #: 21-033

Form # 2 Alternate — Technical Standards for Subsurface Sewage Disposal Systems

CHATHAM HEALTH DISTRICT SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM PG1

Location: Lakeshore and East Shore Dr, East Haddam 8 lots — Weather: ____

Percent Slope: ____ — Parent Material: ____ — Date: 6/22/2021 Time: 10:15am

Completed by: Ryan McCammon (P.E. or Certified Local Health Agent) — Accuracy Assured by (if P.E. completed form): Ryan McCammon (Certified Local Health Agent)

Others Present for Site Investigation: Mark Reynolds PE (Installer, Developer, P.E., etc.)

Test Pit #: 50-83" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 50-53 1 — Observed Ledge 83"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-30"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	30-55"	Orange Brown				fine sandy loam	20	friable	No	Schist
Rr	55-83"	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 51-80" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-24"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	24-48"	Tan/Grey				med sandy loam	20	friable	No	Schist boulders
Rr	48-80"	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 52-61" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 — Observed Ledge 61"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-20"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	20-46"	Tan/Grey				med sandy loam	20	friable	No	Schist boulders
Rr	46-61"	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 53-62" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 — Observed Ledge 62"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-21"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	21-49"	Tan/Grey				med sandy loam	20	friable	No	Schist boulders
Rr	49-62"	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 54-92" Depth to Observed Ground-Water (inches): Weeping: N/ O 54-57 4 — Standing: N/0 — Observed Ledge 92"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-29/33"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	29/33-49	Tan/Grey				med sandy loam	20	friable	No	Schist boulders
Rr	49-92"	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 55-80" Depth to Observed Ground-Water (inches): Weeping: 64" — Standing: 76" — Observed Ledge N/O

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-25"	Medium Brown				med sandy loam	3	friable	Yes	
B2	25-36"	Tan/Grey				fine sandy loam	0	friable	Yes	
Rr	36-64"	Orange Brown				med sandy loam	15	friable	No	Schist boulders
Rr	64-76"	Grey				med silty loam	20	very firm	No	We

Test Pit #: 56-78" Depth to Observed Ground-Water (inches): Weeping: 64" — Standing: 76" — Observed Ledge 78"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-26"	Medium Brown				med sandy loam	3	friable	Yes	
B2	26-47"	Tan/Grey				med silty loam	15	friable	No	Schist
Rr	47-78"	Grey				med sandy loam	15	firm	No	Schist boulders

Test Pit #: 57-93" Depth to Observed Ground-Water (inches): Weeping: 78" — Standing: 89" — Observed Ledge 93"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-29"	Medium Brown				med sandy loam	3	friable	Yes	
B2	29-53"	Tan/Grey				med loamy sand	15	friable	No	Schist
Rr	53-89"	Grey				med sandy loam	15	very firm	No	Schist boulders

Lot 3

Test Pit #: 58-88" Depth to Observed Ground-Water (inches): Weeping: 73" — Standing: 86" — Observed Ledge 86"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
*	0-5"	Black				topsoil	0	friable	Yes	
B1	5-27"	Medium Brown				med sandy loam	5	friable	Yes	
B2	27-40"	Tan/Grey				fine sandy loam	0	friable	No	
Rr	40-56"	Tan				med loamy sand	15	firm	No	Schist boulders
Rr	56-86"	Dark Grey				med sandy loam	20	very firm	No	Almost ledge

Test Pit #: 59-72" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge 72"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-32"	Medium Brown				med sandy loam	5	friable	Yes	
Rr	32-72"	Tan				med loamy sand	15	firm	No	Schist boulders

Test Pit #: 60-80" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-27"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	27-48"	Tan/Grey				coarse loamy sand	20	friable	No	Schist boulders
Rr	48-80	Grey				med silty loam	20	very firm	No	Almost ledge

Test Pit #: 61-84" Depth to Observed Ground-Water (inches): Weeping: N/ O — Standing: N/0 — Observed Ledge 84"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-26"	Medium Brown				med sandy loam	3	friable	Yes	
Rr	26-68"	Tan/Grey				coarse loamy sand	20	friable	No	Schist boulders
Rr	68-84	Dark Grey				med silty loam	20	very firm	No	Almost ledge

Lot 2

Test Pit #: 62-75" Depth to Observed Ground-Water (inches): Weeping: 48" — Standing: 65" — Observed Ledge 75"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
*	0-7"	Black				topsoil	0	friable	Yes	
B1	7-26"	Orange Brown				med sandy loam	3	friable	Yes	
C1	26-37"	Tan/Grey	26"	Orange	15%	med sandy loam	10	friable	No	
Rr	37-65"	Dark Grey				med silty loam	20	very firm	No	Schist boulders

Test Pit #: 63-80" Depth to Observed Ground-Water (inches): Weeping: 41" — Standing: 72" — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-24"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	24-48"	Light Grey	24"	Orange	15%	fine sandy loam	10	firm	No	Cobbles
Rr	37-65"	Dark Grey				med silty loam	20	very firm	No	Schist

Test Pit #: 64-77" Depth to Observed Ground-Water (inches): Weeping: 63" — Standing: 72" — Observed Ledge 77"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-23"	Orange Brown				med sandy loam	3	friable	Yes	
C1	23-39"	Light Grey	23"	Orange	15%	fine sandy loam	10	firm	No	Cobbles
Rr	39-72"	Dark Grey				med silty loam	20	very firm	No	Schist

Test Pit #: 65-76" Depth to Observed Ground-Water (inches): Weeping: 50" — Standing: 71" — Observed Ledge 76"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-27"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	27-50"	Light Grey	27"	Orange	15%	fine silty loam	10	firm	No	
Rr	50-71"	Dark Grey				med silty loam	20	very firm	No	Schist

Lot 1A

Test Pit #: 66-84" Depth to Observed Ground-Water (inches): Weeping: 64" — Standing: 80" — Observed Ledge 84"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-26"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	26-64"	Light Grey	26"	Orange	15%	fine silty loam	10	firm	No	Cobbles
Rr	64-80"	Dark Grey				med silty loam	20	very firm	No	Schist

Test Pit #: 67-84"" Depth to Observed Ground-Water (inches): Weeping: N/O — Standing: N/O — Observed Ledge 84"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-25"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	25-60"	Tan				med loamy sand	10	firm	No	Cobbles
Rr	60-84"	Dark Grey				med silty loam	20	very firm	No	Schist

Test Pit #: 68-73" Depth to Observed Ground-Water (inches): 59" — Standing: 70" — Observed Ledge 73"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-22"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	22-45"	Tan	24"	Orange	45%	fine silty loam	5	firm	No	
Rr	45-70"	Dark Grey				med silty loam	20	very firm	No	Schist platey

Test Pit #: 69-80" Depth to Observed Ground-Water (inches): 66" — Standing: 74" — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-25"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	25-52"	Light Grey	25"	Orange	45%	fine silty loam	5	firm	No	
Rr	55-74"	Dark Grey				med silty loam	20	very firm	No	Schist platey

Test Pit #: 70-77" Depth to Observed Ground-Water (inches): 66" — Standing: 74" — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-6"	Black				topsoil	0	friable	Yes	
B1	6-27"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
Rr	27-77"	Light Grey				fine silty loam	5	firm	No	Schist

Test Pit #: 71-81" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge 81"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-23"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
C1	23-37"	Tan				coarse loamy sand	15	very friable	No	
Rr	37-81"	Dark Grey				fine silty loam	10	very firm	No	

Test Pit #: 72-80" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge 81"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-26"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
Rr	26-80"	Dark Grey				coarse loamy sand	15	very friable	No	Rotten Rock

Lot 5

Test Pit #: 73-80" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-32"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
Rr	32-80"	Dark Grey				coarse loamy sand	15	very friable	No	Rotten Rock

Test Pit #: 74-93" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge 80"

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-4"	Black				topsoil	0	friable	Yes	
B1	4-26"	Orange Brown				med sandy loam	3	friable	Yes	Cobbles
Rr	26-65"	Grey				coarse loamy sand	15	friable	No	Rotten Rock
Rr	65-93"	Grey				fine silty loam	15	very firm	No	Almost ledge

Lot 9

Test Pit #: 75-77" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge N/O

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-3"	Black				topsoil	0	friable	Yes	
B1	3-11"	Orange Brown				med sandy loam	10	friable	Yes	Cobbles
B2	11-29"	Orange Brown				coarse sand/gravel	25	very friable	No	Cobbles
C1	29-54"	Tan				medium sand	10	loose	No	
C2	54-77"	Tan				coarse sand/gravel	25	very friable	No	Cobbles

Test Pit #: 76-88" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge N/O

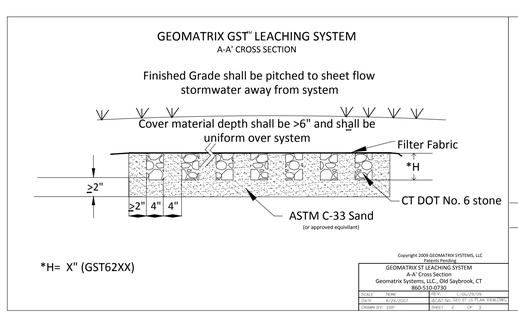
Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-12"	Black				topsoil	0	friable	Yes	
B1	12-32"	Orange Brown				med sandy loam	10	friable	Yes	Cobbles
B2	32-49"	Tan				fine sandy loam	10	firm	No	
C1	49-88"	Light Grey	49"	Orange	15%	fine silty loam	3	very firm	No	

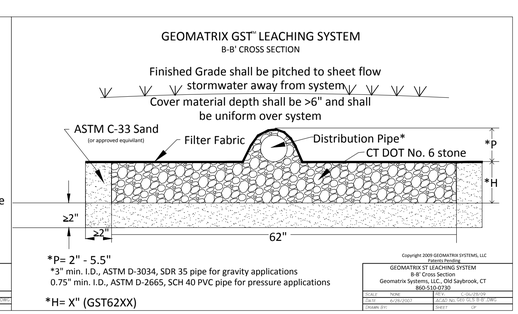
Test Pit #: 77-81 Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge N/O

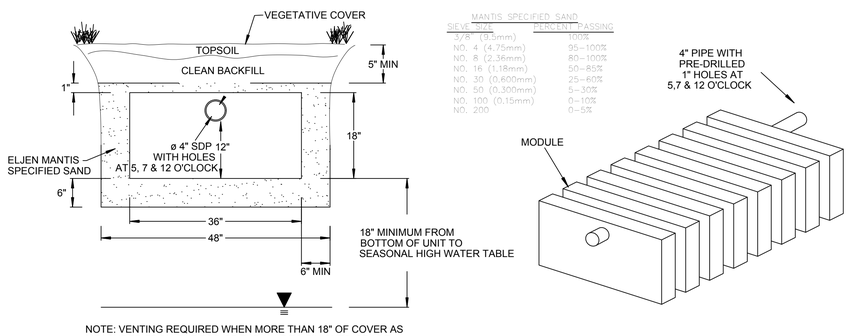
Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-7"	Black				topsoil	0	friable	Yes	
B1	7-25"	Orange Brown				med sandy loam	10	friable	Yes	Cobbles
B2	25-31"	Tan				fine sandy loam	10	firm	No	
C1	31-51"	Light Grey	31"	Orange	15%	fine silty loam	3	very firm	No	
C2	51-81"	Dark Grey	51"	Orange	15%	fine silty loam	3	very firm	No	

Test Pit #: 78-81" Depth to Observed Ground-Water (inches): N/O — Standing: N/O — Observed Ledge N/O

Soil Horizon	Depth (inches)	Matrix Color	Redoximorphic Features: Depth	Color	%	Soil Texture (USDA)	Gravel Percent	Soil Consistence	Roots	Other
A	0-5"	Black				topsoil	0	friable	Yes	
B1	5-26"	Orange Brown				med sandy loam	10	friable	Yes	Cobbles
B2	26-36"	Tan				fine sandy loam	10	firm	No	
C1	36-42"	Light Grey	36"	Orange	15%	fine silty loam	3	very firm	No	
C2	42-81	Dark Grey	42"	Orange	15%	fine silty loam	3	very firm	No	







MANTIS 536-8 LEACHING UNIT DETAIL

(NOT TO SCALE)

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Designed By: MAR

Drawn By: SAM

Checked By: MAR

CAD File: 21-033_bndy

Drawing Scale: AS NOTED

Drawing date: 1/6/22

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

SOILS DATA

PROJECT TITLE: LAKE HAYWARD PRESERVE
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: ANTHONY SILVESTRI

CIVIL ENGINEERING CONSULTANTS
63 NORWICH AVENUE SUITE 202
COLCHESTER, CT
(860) 465-7419
RES
Reynolds Engineering Services, LLC

Drawing #: 25 OF 28

Job #: 21-033

LEGEND

- PROPERTY LINE
- STONE WALL
- APPROXIMATE EDGE OF POND (NOT FIELD LOCATED)
- ANGLE POINT
- MONUMENT FOUND
- IRON PIN SET 5/8" REBAR

*THE NORTHERLY PROPERTY LINE IS CONTIGUOUS TO THE COLCHESTER, EAST HADDAM TOWN LINE PER MAP REFERENCE #2.

N/F
JASON R. & LAUREN T.
WNEK

N/F
EDWARD R. & HEIDI H.
CREATURO

MON. FOUND
4.5'

COLCHESTER TOWN LINE
EAST HADDAM TOWN LINE

N82°57'21"E 588.03'
931.99' (TOTAL)
343.96'
C1
L1

REMAINING LAND OF
ANTHONY SILVESTRI
TO BE DEEDED TO THE TOWN OF EAST HADDAM

AREA =
7.3± ACRES

N50°52'21"E 370.25'
409' ± TO EAST SIDE OF POND/SWAMP
S39°07'39"E 225.00'
S50°52'21"W 401.15'

NOTE
SURVEY CLOSURE LINE ONLY. ACTUAL PROPERTY LINE FOLLOWS ± 1,440' ALONG THE WESTERLY EDGE OF POND/SWAMP.

NOTE
SURVEY CLOSURE LINE ONLY. ACTUAL PROPERTY LINE FOLLOWS ± 322' ALONG THE EASTERLY EDGE OF POND/SWAMP.

N00°11'28"W 299.75'

39' ±

PROPERTY OF
ANTHONY SILVESTRI
341 LAKE SHORE DRIVE

AREA =
2.7± ACRES
116,504± SQUARE FEET

S49°16'53"W 168.85'
S46°42'06"W 183.49'
S44°02'51"W 135.58'

N/F
RAY J. RYAN JR.

± 1,440'
S75°23'40"E 286.17'
N82°17'09"E 153.22'
S66°28'28"W 100.58'
N02°15'52"E 2.01'
N 02°15'52" E 814.16' (24.10')
± 322'
N15°46'53"W 293.15'
N26°02'37"W 447.52'

POND
SWAMP

LAKE SHORE DRIVE
EAST SHORE DRIVE

CL&P #1742
CL&P #6955
CL&P #695
EVRSC 1743
CL&P #696

SEE DETAIL

PROPERTY OF
ANTHONY SILVESTRI

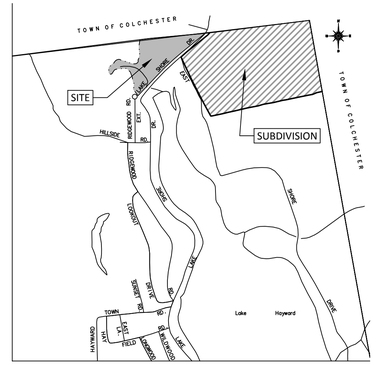
TOTAL AREA
10.0 ACRES ±

METAL GUARD RAIL

CULVERT
36" RCP

DETAIL
NOT TO SCALE

N15°46'53"W 293.15'
S44°02'51"W 135.58'
4' ±
S42°33'50"W 391.63' TO IRON PIN



GENERAL LOCATION MAP
SCALE 1"= 1000'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S15°19'23"W	4.26'

CURVE TABLE

CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	63.74'	100.00'	36°31'21"	N32°53'25"E	62.67'

0 15 30 60
SCALE: 1"= 60'

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TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

THIS DRAWING IS NOT VALID UNLESS IT BEARS AN ORIGINAL INK SIGNATURE AND EMBOSSED SEAL

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Designed By: MAR
Drawn By: AGS
Checked By: MAR
CAD File: 21-033_bndy

Drawing Scale: 1"=60'
Drawing date: 9/28/22

Rev.	Date	Revision	By
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

PROPERTY DIVISION MAP

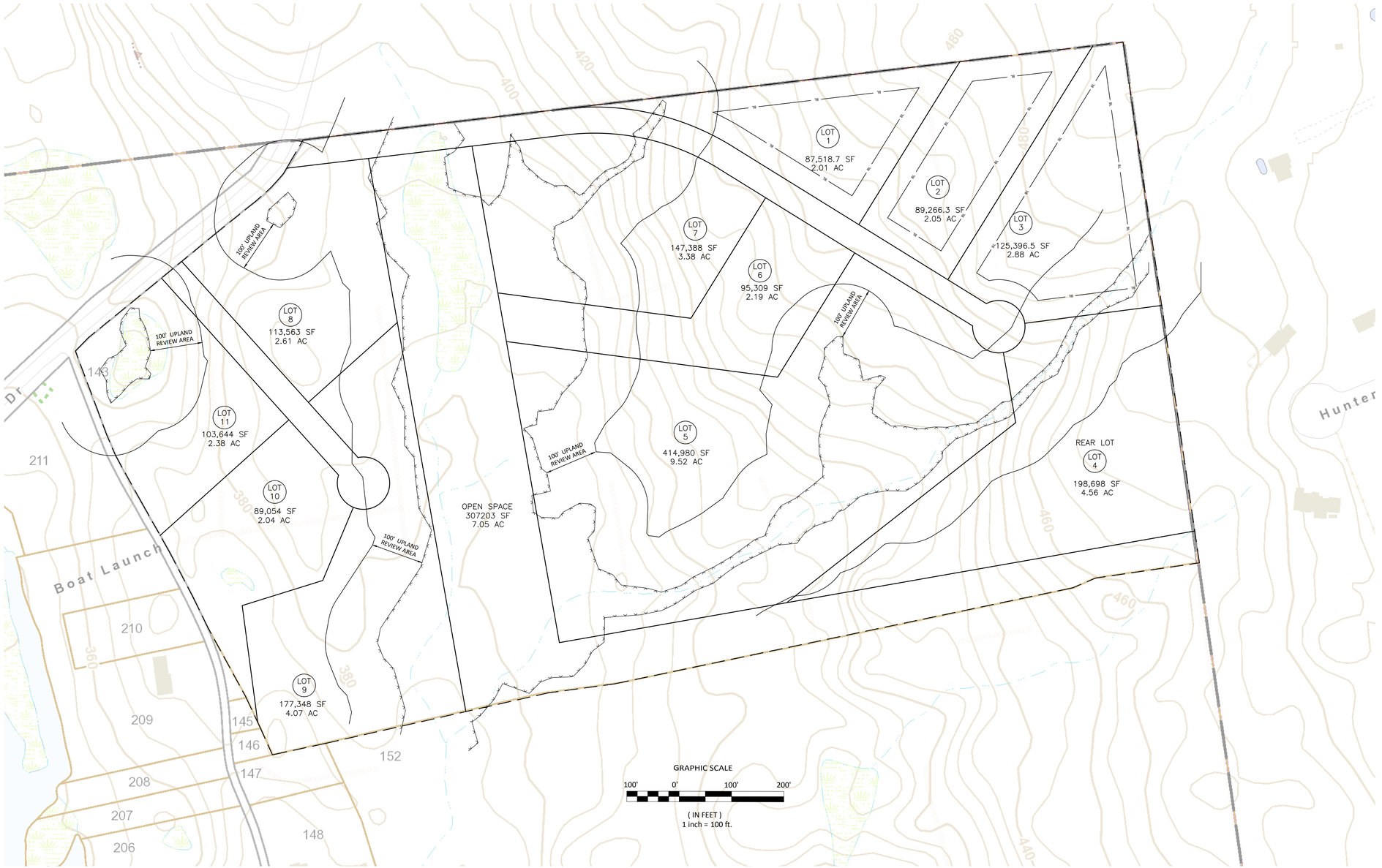
PROJECT TITLE: *LAKE HAYWARD PRESERVE*
341 LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: *ANTHONY SILVESTRI*

CIVIL ENGINEERING CONSULTANTS
63 NORWICH AVENUE SUITE 202
COLCHESTER, CT
(860) 465-7419
RES
Reynolds Engineering Services, LLC

Drawing #: 26 OF 28

Job #: 21-033



NUMBER OF LOTS: 11
ZONE: R-2
TOTAL PARCEL AREA
2,134,794.57 S.F. / 49.01 AC.

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Designed By: MAR
Drawn By: SAM
Checked By: MAR
CAD File: 21-033_YIELD PLAN

Drawing date: 1/6/22
Drawing Scale: 1" = 100'

Rev.	Date	Revision	By
1	8/30/22	DRAINAGE & RAIN GARDENS	SAM
2	9/28/22	REVIEW COMMENTS	SAM
3	6/27/23	REVIEW COMMENTS	SAM
4	7/24/23	REVIEW COMMENTS	SAM

YIELD PLAN

PROJECT TITLE: LAKE HAYWARD PRESERVE
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: ANTHONY SILVESTRI

CIVIL ENGINEERING CONSULTANTS
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COLCHESTER, CT
(860) 465-7419
RES
Reynolds Engineering Services, LLC

Drawing #: 27 OF 28

Job #: 21-033

LEGEND

- PROPERTY LINE
- STONE WALL
- WIRE FENCE REMAINS
- FENCE POST WITH WIRE
- ANGLE POINT
- IRON PIN OR PIPE FOUND
- MONUMENT FOUND
- DRILL HOLE FOUND
- IRON PIN TO BE SET 5/8" REBAR
- DRILL HOLE TO BE SET
- SURVEYOR CONTROL POINT
- TREE WITH WIRE (TYPICAL)
- TREE WITH WIRE (HELD)

*STREET LINE PER MAP REFERNCE "CHURNEY"

N/F
THE ROBERT P. CHURNEY LIVING TRUST & THOMAS M. CHURNEY
MBL 02-10-032-000

*NORTHERLY PROPERTY LINE IS CONTIGUOUS TO THE COLCHSETER/ EAST HADDAM TOWN LINE PER MAP REFERNCE "PHILLIPS"

STEP THREE
ROADWAY ALIGNMENTS (TYP.)
SEE SHEETS 9,10,11,17,18 & 19

STEP FOUR
LOT LINES (TYP.)
SEE SHEETS 5,6,7 & 8

N/F
ROBERT J. PORTER JR.
MBL02-10-018-25A

N/F
DOUGLAS A & KAREN SCHOLL
MBL 02-10-018-24A

N/F
MELISSA M. LAPARRE
MBL 02-10-018-22A

*EASTERLY PROPERTY LINE IS CONTIGUOUS TO THE COLCHSETER/ EAST HADDAM TOWN LINE PER MAP REFERNCE "CHURNEY"

N/F
LINDSAY SCALISE
MBL 02-10-018-18A

N/F
MICHAEL E. & MERTIE L. MCCUNE
MBL 02-10-018-17A

PER MAP REFERENCE #1

STEP THREE
DRIVEWAY ALIGNMENTS (TYP.)
SEE SHEETS 9,10 & 11

N/F
MARLEE D. MOONEY

STEP ONE
CONSERVATION / OPEN SPACE (TYP.)

N/F
ANTHONY SILVESTRI
PARCEL# M87 / L142

EASEMENT LINE

STEP THREE
ROADWAY ALIGNMENTS (TYP.)
SEE SHEETS 9,10,11,17,18 & 19

STEP TWO
HOUSE SITE (TYP.)
SEE SHEETS 9,10 & 11

STEP TWO
SEPTIC AREA / SOILS TESTING (TYP.)
SEE SHEETS 9,10,11,22 & 23)

N/F
ALICE L. FEDUS TRUSTEE

N/F
STATE OF CONN.

N/F
ALICE L. & STEPHEN FEDUS

N/F
ALICE L. FEDUS TRUSTEE

PROPERTY OF
CHRISTOPHER JOHN & ERIC PAUL GREGAN
ASSESSORS #87-143

PARCEL AREA
2,134,795 SQ.FT
49.01 ACRES

COLCHESTER
EAST HADDAM
LAKE SHORE DRIVE
EVAN'S COURT
COURT A
COURT B
EAST SHORE DRIVE

OPEN SPACE
WETLAND SOILS
100' UPLAND REVIEW AREA

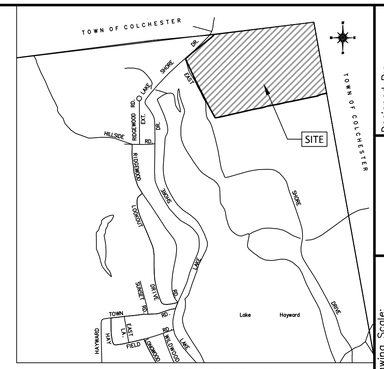
CL&P 692
CL&P 6093
CL&P 1741
CL&P 4090
CL&P 2665
CL&P 2666

REAR LOT

1 41,590 S.F. 0.95 AC.
2 39,544 S.F. 0.91 AC.
3 48,359 S.F. 1.11 AC.
4 67,841 S.F. 1.33 AC.
5 33,550 S.F. 0.77 AC.
6 43,850 S.F. 1.01 AC.
7 41,187 S.F. 0.94 AC.
8 47,124 S.F. 1.08 AC.
9 41,641 S.F. 0.96 AC.
10 40,910 S.F. 0.94 AC.
11 35,432 S.F. 0.81 AC.

SUBDIVISION PROCESS KEY

- STAGE ONE: IDENTIFYING CONSERVATION AREAS (WETLANDS)
- STAGE ONE: IDENTIFYING CONSERVATION AREAS (OPEN SPACE)
- STAGE TWO: LOCATING DEVELOPABLE HOUSE SITES (HOUSE)
- STAGE TWO: LOCATING DEVELOPABLE HOUSE SITES (SEPTIC/SOILS TESTING)
- STAGE THREE: ALIGNING STREETS AND DRIVEWAYS
- STAGE FOUR: DRAWING IN THE LOT LINES



GENERAL LOCATION MAP
SCALE 1"= 1000'

GRAPHIC SCALE
100' 0' 100' 200'
(IN FEET)
1 inch = 100 ft.

CONSERVATION SUBDIVISION REQUIREMENTS

ZONE:	R-2
MINIMUM LOT AREA:	0.75 ACRE
MAXIMUM LOT AREA:	1.25 ACRES
MINIMUM LOT WIDTH:	150 FT.
MINIMUM FRONT YARD:	25 FT.
MINIMUM SIDE YARD:	25 FT.
MINIMUM REAR YARD:	25 FT.

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SUBDIVISION PROCESS PLAN

PROJECT TITLE: *LAKE HAYWARD PRESERVE*
LAKE SHORE DRIVE EAST HADDAM, CT

PREPARED FOR: *ANTHONY SILVESTRI*

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Drawing #: 28 OF 28

Job #: 21-033