OFF-SEASON EQUIPMENT

393 BUTLERTOWN ROAD OAKDALE, CT

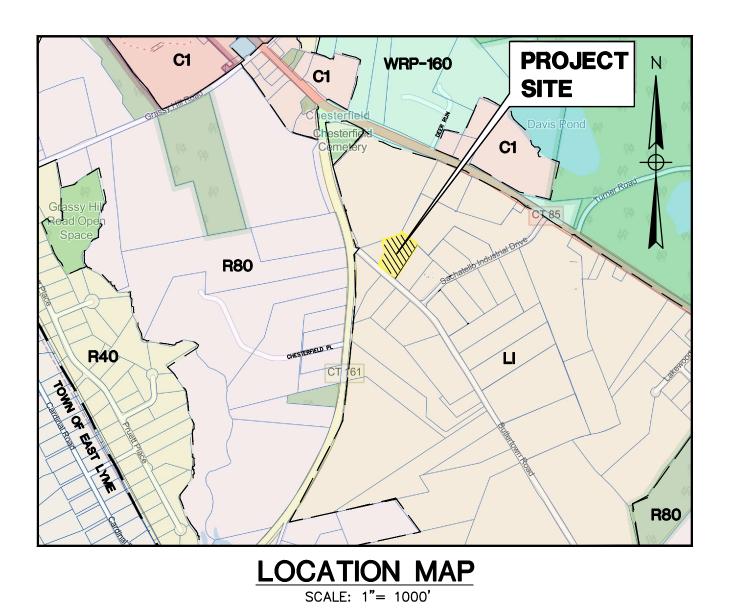
LEGEND

PROPERTY LINE
EDGE OF PAVEMENT

DRAINAGE
WATER
SEWER
GAS
ELECTRIC
CONTOUR
TREE LINE
GUIDERAIL
SIGNS
CATCH BASIN
IRON PIN, IRON PIPE

MS, CHD, MON

FIRE HYDRANT
ELECTRIC MANHOLE
SEWER MANHOLE
GAS GATE, WATER GATE
LAMP



INDEX TO DRAWINGS

DRAWING DESCRIPTION OF NO. DRAWINGS

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PROPERTY: 393 BUTLERTOWN RD - PARCEL ID: 005-027-004

PROPOSED USE: OFF-SEASON EQUIPMENT STORAGE

APPLICANT: 393 BUTLERTOWN RD
OWNER: 393 BUTLERTOWN RD

MAY 13, 2025 MAY 6, 2025 APRIL 28, 2025 MARCH 2025

> GREEN SITE DESIGN LLC

317 Main Street Norwich, Connecticut (860) 892-1380 Fax (860) 886-9165

APPROVED BY THE MONVILLE PLANNING & ZONING COMMISSION

CHAIRMAN / SECRETARY

DATE

3 5/8" 🛨

2'-8 3/4"

5'**–4"**

FRONT ELEVATION

TEST HOLE DATA TEST HOLES RECORDED BY UNCAS HEALTH DISTRICT ON APRIL 16, 2019 0 - 24" TOPSOIL 24 - 38" SANDY LOAM W/SILT 38 -105" GRAY BROWN SANDY LOAM TO SAND W/ STONES MOTTLING: 38" GW: 88" LEDGE: NONE ROOTS: 24" RESTRICTIVE: 38 0-12" TOPSOIL 12 - 22" SANDY LOAM W/SILT 22 -100" GRAY BROWN SANDY LOAM TO SAND W/ STONES MOTTLING: 22" GW: 86" LEDGE: NONE ROOTS: NONE RESTRICTIVE: 22' 0 - 7" TOPSOIL 7 - 24" SANDY LOAM W/SILT 24 - 90" GRAY BROWN SANDY LOAM TO SAND W/STONES MOTTLING: 23" GW: 83" LEDGE: NONE ROOTS: 25" RESTRICTIVE: 23' 0 - 20" TOPSOIL 20 - 31" SANDY LOAM W/SILT 31-90" GRAY BROWN SANDY LOAM TO SAND W/ STONES MOTTLING: 31" GW: NONE LEDGE: NONE ROOTS: 34" RESTRICTIVE: 31 <u>TH-5</u> 0 10" TOPSOIL 10 - 26" SANDY LOAM W/SILT 26 90" GRAY BROWN SANDY LOAM TO SAND W/ STONES MOTTLING: 26" GW: 76" LEDGE: NONE ROOTS: 23" RESTRICTIVE: 26' 0 - 8" TOPSOIL 8 - 25" SANDY LOAM W/SILT 25 -102" GRAY BROWN SANDY LOAM TO SAND W/ STONES MOTTLING: 25" GW: 86" LEDGE: NONE ROOTS: 22" RESTRICTIVE: 25" 1'-6 7/8" 1'-6 7/8"

TEST HOLES RECORDED BY ROBERT RUSSO ON APRIL 2004

<u>TH #18A</u> 87" TOTAL DEPTH 0-9" TOPSOIL BROWN FINE SANDY LOAM 9-21" SUBSOIL YELLOW BROWN SANDY LOAM WITH SILT AND STONES. 23-97" GRAY AND BROWN AND LOAMY SAND TO SAND AND GRAVEL WITH MOTTLES NO BEDROCK WATER 85"

TH #18B

MOTTLING @ 21"

87" TOTAL DEPTH MOVED 25 FEET FURTHERTOWARD OTHER B PIT PAIR DUE TO WELL NEXT DOOR 0-11" TOPSOIL DARK BROWN FINE SANDY LOAM 11-25 " SUBSOIL YELLOW BROWN SANDY LOAM WITH SILT AND STONES. 25-87" GRAY AND BROWN AND LOAMY SAND TO SAND WITH STONES MOTTLES NO BEDROCK

NO WATER MOTTLING NONE

80" TOTAL DEPTH 0-8" TOPSOIL DARK BROWN FINE SANDY LOAM

8-27" SUBSOIL YELLOW BROWN SANDY LOAM WITH 27-80" GRAY AND BROWN AND LOAMY SAND TO SAND WITH STONES NO BEDROCK

WATER 77" MOTTLING @ 27"

TH #18D 96" TOTAL DEPTH MOVED 25 FEET FURTHERTOWARD OTHER B PIT PAIR DUE TO WELL NEXT DOOR 0-9" TOPSOIL BROWN FINE SANDY LOAM

9-28" SUBSOIL YELLOW BROWN SANDY LOAM WITH STONES. 28-96" GRAY AND BROWN AND LOAMY SAND TO SAND WITH STONES MOTTLES NO BEDROCK

NO WATER MOTTLING @ 28"

RESTRICTIVE @ 43"

CROSS SLOPE AS PER CROSS SECTION

11 1/2" 3 13/16" + +

TEST HOLE RECORDED BY NORMAND THIBEAULT, JR., P.E. ON MAY 23, 2019

TH-101 0 - 10" TOPSOIL/ORGANICS 10 - 43" SUBSOIL/ORANGE BROWN SANDY LOAM W/ SOME STONES 43 -103" GRAY COMPACT HARDPAN/SANDY GRAVEL W/ SOME FINES MOTTLING: N/A

2 13/16"

2'-2 3/8"

— 7 13/16"

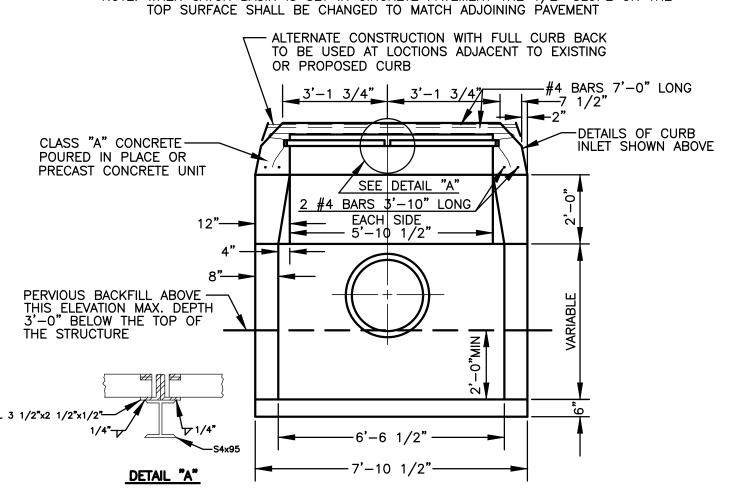
4'-4"

SIDE ELEVATION

SEPTIC SYSTEM GENERAL NOTES

- 1. TOPOGRAPHIC INFORMATION ON THIS PLAN PROVIDED BY CLA ENGINEERS.
- 2. PROPOSED BUILDING AND SEPTIC SYSTEM TO BE STAKED IN THE FIELD BY A LAND SURVEYOR LICENSED IN THE STATE OF CONNECTICUT.
- 3. ALL WORK AND MATERIAL (SEPTIC TANK, DISTRIBUTION BOX, PIPE, SELECT FILL) SHALL CONFORM TO THE CONNECTICUT PUBLIC HEALTH CODE REGULATIONS AND STANDARDS FOR SUBSURFACE SEWAGE DISPOSAL
- 4. AFTER THE FILL IS PLACED AND COMPACTED. IT MUST BE PERC TESTED PRIOR TO INSTALLATION OF ALL THE SEPTIC SYSTEMS.
- 5. WHERE SEWER LINE CROSSES WATER LINE. THERE ARE TO BE NO JOINTS WITHIN 5 FEET ON EITHER SIDE OF THE WATER LINE, INCLUDING SERVICES.
- 6. SEWER LINE FROM FOUNDATION WALL TO SEPTIC SHALL BE 4" SCHEDULE 40 PVC - ASTM D 1785 AND JOINTS PER HEALTH DEPT. CODE.
- 7. TRENCHES SHALL BE SET LEVEL FOR ENTIRE LENGTH AND HAVE A CENTER TO CENTER SPACING OF 12 FEET.
- 8. PIPE FROM SEPTIC TANK TO DISTRIBUTION LINES SHALL BE 4" SOLID PVC CONFORMING TO ASTMD-3034 AND SDR-35.
- 9. IF BLASTING IS REQUIRED A PRE-BLAST SURVEY WILL BE REQUIRED. CALL BEFORE YOU DIG: 1-800-922-4455.
- 10. THERE ARE PRESENTLY NO KNOWN WATER WELLS WITHIN 75' OF THE PROPOSED SEPTIC SYSTEM.
- 11. A VERTICAL BENCHMARK SHALL BE PROVIDED WITHIN 50 FEET OF THE PROPOSED HOUSE LOCATION PRIOR TO THE START OF CONSTRUCTION.
- 12. CLEAR AND GRUB THE AREA WHERE THE SEPTIC SYSTEM AND HOUSE ARE TO BE CONSTRUCTED. ALL TOPSOIL IS TO BE STRIPPED AND STOCKPILED FOR FUTURE USE.
- 13. ALL FILL MATERIAL SHALL BE CLEAN EARTH FREE OF STUMPS, ORGANICS, CONSTRUCTION DEBRIS AND TOPSOIL.
- 14. TOPSOIL SHALL BE RE-APPLIED OVER ALL FILL AREAS AND ALL DISTURBED AREAS TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
- 15. ALL EXISTING UTILITIES TO BE ACCURATELY LOCATED PRIOR TO CONSTRUCTION.
- 16. AFTER FILL IS PLACED AND COMPACTED, IT MUST BE PERC TESTED PRIOR TO INSTALLATION OF THE SYSTEM.
- 17. PRIOR TO START OF CONSTRUCTION, THE BUILDING AND SYSTEM ARE TO BE STAKED BY A LICENSED SURVEYOR.

NOTE: WHEN CATCH BASIN IS SET IN CINCRETE PAVEMENT THE 1/2" SLOPE ON THE



TYPE "C" CATCH BASIN DOUBLE GRATE-TYPE 2

DOUBLE CATCH BASIN - TYPE "C"

SEPTIC/SELECT FILL

SELECT FILL PLACED WITHIN AND ADJACENT TO LEACHING SYSTEM AREAS SHALL BE COMPRISED OF CLEAN SAND, OR SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE DESIGN ENGINEER. SELECT FILL EXCEEDING 6% PASSING THE #200 SLEVE BASED ON A WET SIEVE TEST CANNOT BE APPROVED BY THE "DESIGN

1. THE SELECT FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THEN THREE (3) INCH SIEVE. 2. UP TO 45% OF THE DRY WEIGHT OF THE REPRESENTATIVE SAMPLE MAY BE RETAINED ON THE #4 SIEVE. NOTE: THIS IS THE GRAVEL PORTION OF THE SAMPLE. 3. THE MATERIAL THAT PASSES THE #4 SIEVE IS THEN REWEIGHED AND THE

SIEVE ANALYSIS STARTED. 4. THE REMAINING SAMPLE SHALL MEET THE FOLLOWING GRADATION CRITERIA.

015.45 0175	PERCENT PASSING		
SIEVE SIZE	WET SIEVE	DRY SIEVE	
#4	100	100	
# 10	70-100	70-100	
#40	10-50	10-75	
#100	0-20	0-5	
#200	0-5	0-2.5	

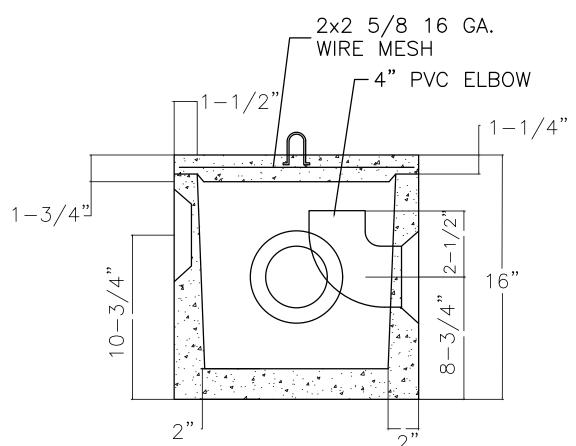
PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THEN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%. THE SELECT FILL MUST BE TESTED AFTER PLACEMENT AND MUST HAVE A PERCOLATION RATE AT LEAST AS FAST AS THE DESIGN RATE OF LESS THAN 20 MIN/INCH

PERC TEST DATA

PERC 18: TOTAL DEPTH - 12"

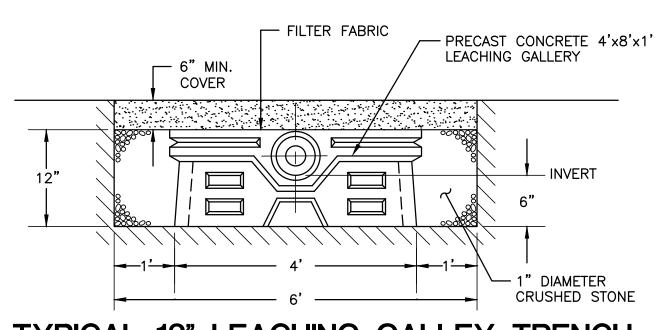
PRESOAK AT 2:00 9:00 - 10" 9:04 - 11" 9:08 - 12" 9:12 - 12 1/2" $9:16 - 12 \frac{3}{4}$ " 9:20 - 13" 9:24 - 13 1/2" 9:28 - 13 3/4" 9: 32 - 14" 9:36 - 14 1/8" 9:40 - 14 1/4" 9:44 - 14 3/8" 9:48 - 14 3/8" 9:52 - 14 1/2" 9:56 - 14 1/2" 10:00 -14 5/8"

> EQUALIZED PERC RATE: 41.6 MIN/IN PERC RATE = 30.1 TO 45 MIN/IN



STANDARD D-BOX W/ELBOW

NOT TO SCALE



TYPICAL 12" LEACHING GALLEY TRENCH

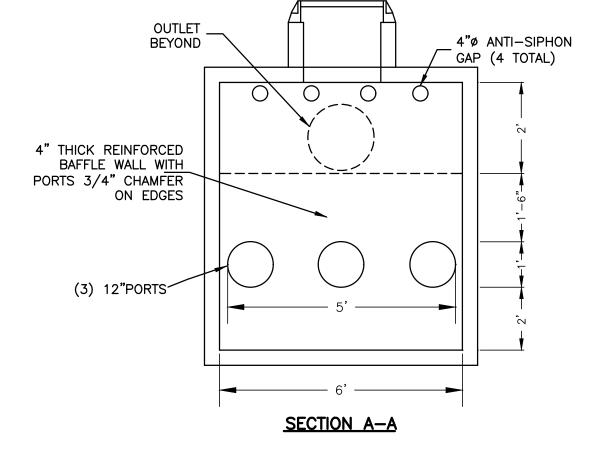
NOT TO SCALE

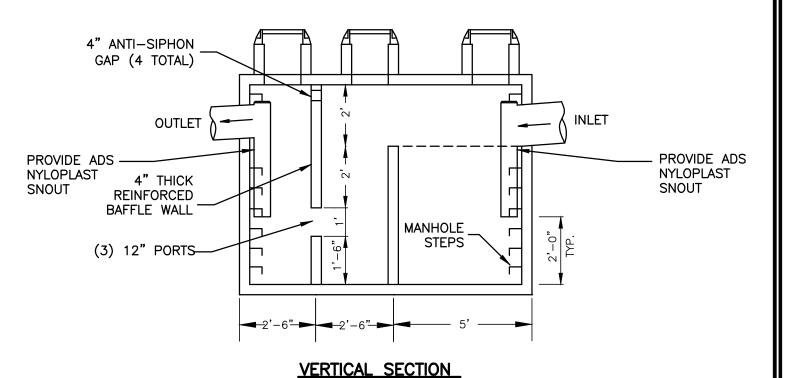
SEPTIC SYSTEM DESIGN

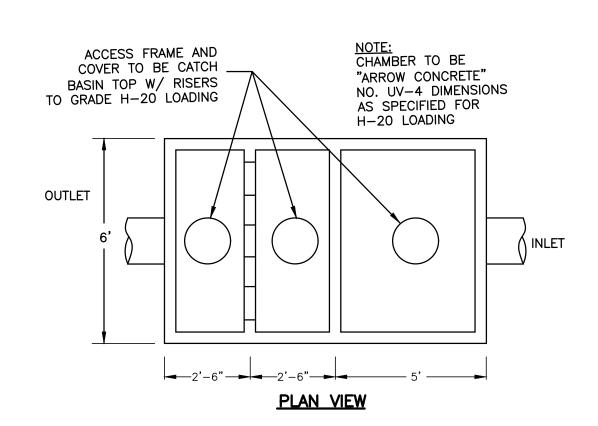
PERCOLATION RATE: 30.1 TO 45 MINUTES PROPOSED USE: STORAGE GARAGE (CONSTRUCTION EQUIPMENT)

MAXIMUM NUMBER OF EMPLOYEES = 20 EFFECTIVE LEACHING AREA = 400 GPD / 0.7 PER SF = 571.4 SF USE 12" CONC. GALLERIES @ 5.9 SF/LF LENGTH OF TRENCHES = 371.4 SF / 5.9 SF/LF = 97 LF LENGTH OF TRENCHES PROVIDED = 132 LF

MLSS S = 3.1% RESTRICTIVE LAYER = (38 + 22 + 23 + 31 + 26 + 25 + 21 + 27 + 28) / 9 = 26.8 INCHES HF = 34FF = 400 / 300 = 1.3PF = 3.0MLSS = 132.6 LF







OIL / SEDIMENTATION CHAMBER DETAIL 5000 GAL. CAPACITY NOT TO SCALE

GREEN SITE DESIGN HEALTH DEPT. REVIEW 317 Main Street Norwich, Connecticut No. DATE REVISION (860) 892-1380 Fax (860) 886-9165 MONTVILLE, CT GSD-74 E.M.B. 393 BUTLERTOWN RD 3/26/25 Sheet No.

SEPTIC DETAILS

NOT TO SCALE

NOT TO SCALE

TYPE "C" CATCH BASIN DETAIL

PRECAST CONC. UNIT (D.O.T. STANDARD)

OR PRECAST RISERS

PRECAST CONC. MASONRY UNITS

POURED CONC. OR PRECAST SUMP

EROSION CONTROL & SEDIMENTATION NARRATIVE

- PRIOR TO THE INSTALLATION OF ANY EROSION AND SEDIMENT CONTROL MEASURES, THE OWNER AND CONTRACTOR SHALL MEET WITH THE TOWN OF MONTVILLE ZONING & WETLANDS OFFICER.
- 2. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED TO BE NECESSARY BY THE ZONING & WETLANDS OFFICER.
- 3. THE CONTRACTOR SHALL CONTACT THE ZONING & WETLANDS OFFICER FOR INSPECTION OF THE SEDIMENT AND EROSION CONTROL MEASURES, PRIOR TO SITE DISTURBANCE. CONSTRUCTION SHALL NOT BEGIN UNTIL SUCH TIME AS THE ZONING & WETLANDS OFFICER HAS REVIEWED AND APPROVED THE INSTALLATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
- 4. CONTRACTOR TO INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES AT LEAST WEEKLY AND AFTER EVERY STORM EVENT AND REPAIR AND MAINTAIN AS NECESSARY.
- 5. CONSTRUCT TEMPORARY SEDIMENT BASINS. THE TEMPORARY SEDIMENT TRAP LOCATED ON THE WESTERLY SIDE OF THE PROPERTY SHALL BE EXCAVATED DOWN TO ELEVATION 232 FOR THE CONSTRUCTION PHASE. ONCE THE SITE IS STABILIZED, THEN THE PERMANENT WATER QUALITY BASIN SHALL BE EXCAVATED DOWN TO ELEVATION 228.
- 6. CLEARING AND GRUBBING OF THE AREA TO BE GRADED. TOPSOIL TO BE REMOVED AND STOCKPILED IN AN AREA AS SHOWN ON THE PLANS.
- 7. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS.
- 8. SIDE SLOPES SHALL BE GRADED TO ROUGH GRADE AS SHOWN ON THE PLANS.
- 9. TOPSOIL SHALL BE RE-APPLIED TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
- 10. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED. APPROXIMATELY 4.08 ACRES WILL BE DISTURBED DURING
- 11. SEEDING SHOULD TAKE PLACE BETWEEN APRIL 1 AND JUNE 1 OR AUGUST 15 AND OCTOBER 1.
- 12. THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED AREAS:

GENERAL:		STORMWATER BASIN:	
KENTUCKY BLUEGRASS	20 LBS/AC	CREEPING RED FESCUE	20 LBS/AC
CREEPING RED FESCUE	20 LBS/AC	REDTOP	2 LBS/AC
PERENNIAL RYEGRASS		PERENNIAL RYEGRASS	20 LBS/AC

13. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL

BASIN TOPSOIL MIX

CONNECTICUT STORMWATER QUALITY MANUAL

THE ENGINEERED BIORETENTION SOIL MEDIA SHOULD BE A HOMOGENEOUS SOIL MIX OF (BY VOLUME):

60-85% SAND

DEVELOPMENT.

- 15-25% TOPSOIL
- 3-8% ORGANIC MATTER

POLLUTION PREVENTION PLAN

POLLUTION PREVENTION TEAM

THE OWNERS WILL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN. PARKING LOTS, SIDEWALKS AND OTHER IMPERVIOUS SURFACES SHALL BE SWEPT CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE A YEAR:

A. BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
B. DURING APRIL (AFTER SNOW MELT)

NO WASHING VEHICLES OR EQUIPMENT IN PARKING AREAS.

- . MAINTENANCE AND INSPECTION
- A. MONTHLY INSPECTION OF STORM WATER STRUCTURES AND OUTFALLS.

 B. CLEAN SEDIMENT AND DEBRIS FROM STRUCTURES AND OUTFALLS TWICE PER YEAR IN THE FALL & SPRING.
- C. SUBMIT MAINTENANCE & INSPECTION REPORT TO THE PLANNING DEPARTMENT
- . <u>STORMWATER BASIN</u>
- A. CLEAN SEDIMENT AND DEBRIS FROM BASIN TWICE A YEAR, DURING APRIL AND OCTOBER.
- 4. SPILL OR ACCIDENTAL DISCHARGE

COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY. CONTACT CONNECTICUT DEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338 AND THE MONTVILLE FIRST SELECTMAN. IN THE EVENT A SPILL OCCURS, THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:

- A. STOP THE SOURCE OF THE SPILL
- B. CONTAIN THE SPILL
 C. COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST
- OR OIL ABSORBENT PADS. DO NOT USE STRAW.

 D. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.
- 5. BEST MANAGEMENT PRACTICES FOR FUTURE UPKEEP OF THE SITE WILL INCLUDE NON—CHEMICAL LAWN CARE & MINIMAL USE OF FERTILIZERS, DE—ICING OR WINTER OPERATIONS WITHOUT THE USE OF CALCIUM, AND NO EXTERIOR WASHING OF VEHICLES OR DISCHARGING OF INTERIOR WASH WATER.

OPERATION AND MAINTENANCE OF DRAINAGE SYSTEM

- THE PROPERTY OWNER IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE DRAINAGE SYSTEM. THE OWNER IS: 393 BUTLERTOWN ROAD LLC, 305 BUTLERTOWN ROAD OAKDALE CT 06370, 860-235-2846 CELL
- . ALL CATCH BASINS, STORMWATER BASIN, AND RIPRAP SPLASH PADS SHALL BE INSPECTED AND CLEANED OUT TWICE A YEAR, IN THE FALL AFTER THE LEAVES HAVE FALLEN AND IN THE SPRING; AND ALL SEDIMENTS ARE TO BE REMOVED AND INSPECTED FOR MAINTENANCE AND MAINTAINED IF NEEDED.

SIDES). SLOPES AT 3:1 CAN BE MOWED OR CUT WITH A WEED WACKER.

3. THE STORMWATER POND SHALL BE MOWED ONCE A YEAR (BOTTOMS &

