

Stormwater Structure Maintenance

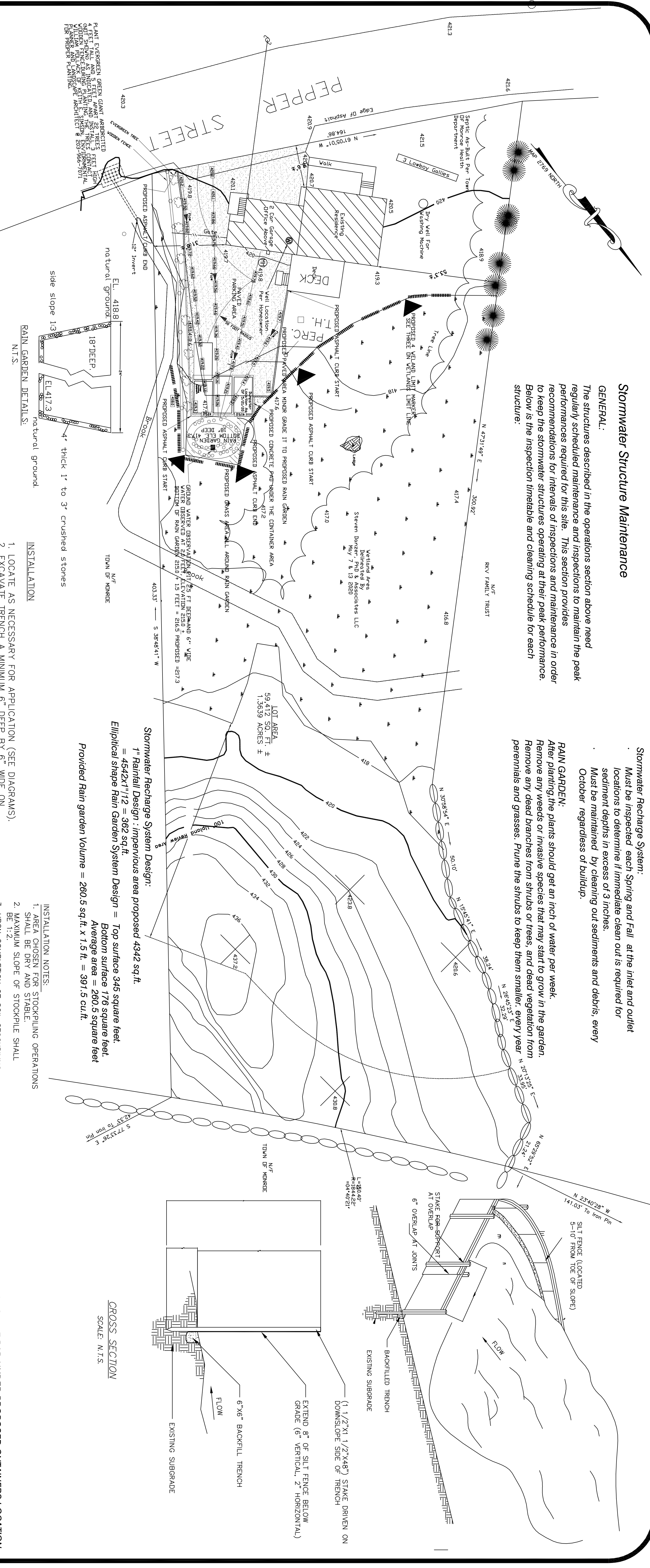
GENERAL:
The structures described in the operations section above need regularly scheduled maintenance and inspections to maintain the peak performances required for this site. This section provides recommendations for intervals of inspections and maintenance in order to keep the stormwater structures operating at their peak performance. Below is the inspection timetable and cleaning schedule for each structure:

Stormwater Recharge System:

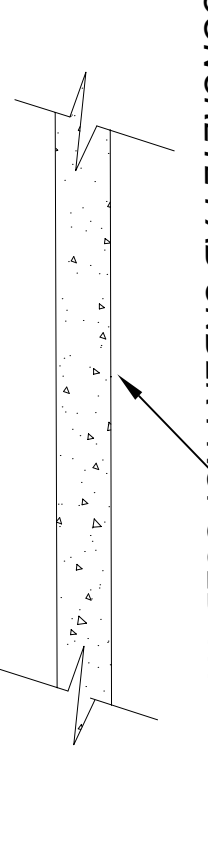
Must be inspected each Spring and Fall at the inlet and outlet locations to determine if immediate clean out is required for sediment depths in excess of 3 inches. Must be maintained by cleaning out sediments and debris, every October regardless of buildup.

RAIN GARDEN:

After planting the plants should get an inch of water per week. Remove any weeds or invasive species that may start to grow in the garden. Remove any dead branches from shrubs or trees, and dead vegetation from perennials and grasses. Prune the shrubs to keep them smaller, every year.



CONCRETE PAD DETAILS N.T.S.



CONSTRUCT 6" THICK 3000 P.S.I. CONCRETE PAD UNDER PROPOSED CONTAINERS LOCATION

- INSTALLATION NOTES:**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES. EITHER SHALL BE STABILIZED WITH VEGETATION OR COVERED.

- INSTALLATION**
1. LOCATE AS NECESSARY FOR APPLICATION (SEE DIAGRAMS).
 2. EXCAVATE TRENCH A MINIMUM 6" DEEP BY 6" WIDE ON UPSLOPE SIDE OF FENCE. FOR SLOPES EXTEND TRENCH UP SLOPE AT BOTH ENDS OF THE FENCE TO PREVENT WATER FROM RUNNING AROUND. ENCLOSE CATCH BASINS IN DEPRESSIONS, CUTTING FABRIC ON THE BOTTOM CORNERS 4" ± TO ALLOW FABRIC TO LAY FLAT AROUND CORNER.
 3. DRIVE HARDWOOD STAKES (1 1/2" x 1 1/2" x 48") ON DOWNSLOPE SIDE OF TRENCH AT A MAXIMUM SPACING OF 10'. OR CLOSER WHEN CONCENTRATED FLOWS ARE ANTICIPATED.
 4. STAPLE OR SECURE FENCE TO STAKES PER MANUFACTURER'S INSTRUCTIONS SUCH THAT AT LEAST 8" OF FABRIC LAYS WITHIN TRENCH.
 5. PLACE FABRIC JOINTS AT STAKES WITH A 6" OVERLAP OF FABRIC.
 6. BACKFILL AND COMPACT TRENCH.

DEEP TEST(S) :

TEST	SOIL	LEDGE	WATER	MOTT.
1	0 - 6" TOPSOIL 6" - 30" BROWN TAN FINE SAND SILT STONE 30" - 60" BROWN TAN FINE SAND SILT STONE 60" - 96" CRCT CLAY SILT	NONE	36"	NONE

TIME	REMAINING	DEPTH
3:07	1/2"	2.5"
3:17	3"	2.25"
3:27	5.25"	1.25"
3:37	6.5"	1"
3:47	7.5"	1"
3:57	8.5"	1"
4:07	9.5"	1"

1" / 10 MIN.

AUGUST 21, 2020
SCALE: 1" = 20'
20 15 10 5 0 10 20

LEGEND:

- EXISTING GRADE
- PROPOSED GRADE
- PERCOLATION TEST
- DEEP TEST
- SILT FENCE

CONSTRUCTION SCHEDULE

THE ANTICIPATED CONSTRUCTION START IN SUMMER OF 2020, WITH COMPLETION ANTICIPATED IN THE END OF JUNE 2021, WITH APPROPRIATE EROSION CONTROL MEASURES AS DESCRIBED HEREIN SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL CONSTRUCTION ACTIVITY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SAID INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES DESCRIBED HEREIN.

CONSTRUCTION SEQUENCE

1. CONSTRUCT TRACKING PADS AT ENTRANCES, INSTALL HAYBALES AT PERIMETER OF PROPOSED SITE DISTURBANCE.
2. CLEAR AND GRUB SITE, STOCKPILE TOPSOIL, BEGIN EXCAVATION.
3. ROUGH GRADE NEW ENTRANCE OF THE PROPOSED DRIVEWAY.
4. CONTINUE EARTHWORK, CONSTRUCT FILL SLOPE, IN EXPEDITIOUS MANNER, AND STABILIZE INSTANT ADDITIONAL EROSION CONTROL, AS DIRECTED BY THE ENGINEER AND CITY ENGINEER. CONSTRUCT TOPSOIL, INSTALL EROSION CONTROL FABRIC AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING.
5. INSTALL SITE APPURTENANCES.
6. CONSTRUCT THE DRAINAGE GALLEYS.
7. SPREAD TOPSOIL, LANDSCAPE PERIMETER AREAS.
8. REMOVE EROSION CONTROLS AFTER AREAS ARE STABILIZED.

NARRATIVE

THIS PROPOSED WORK SHALL CONSIST OF THE CONSTRUCTION OF PROPOSED PARKING AREA AND LANDSCAPING ALONG WITH APPROPRIATE EROSION CONTROLS ON THIS SITE.

Date	Issue	No.
9-28-20	design of rain garden and details of construction	
10-28-20	proposed grades, evergreen & rain garden planting, fence	
11-08-20	Revised proposed grades	
11-11-20	Revised proposed grades, rain garden, water table observation pit	

Date	Revising	No.

Stamp: _____
Name: _____, P.E. CT # 9947

From Name and Address
HKA Associates
20 Topical Lane, Torrington, CT 06801
Phone: (203) 586-9330

Project Name and Address
PROPOSED DRAINAGE PLAN
CONSTRUCTION
556 PEPPER STREET
MONROE, CONNECTICUT
DRAINAGE AND EROSION & SEDIMENTATION PLAN

Project
Date: August 21, 2020
Scale: 1" = 20'
Drawn By: _____
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