

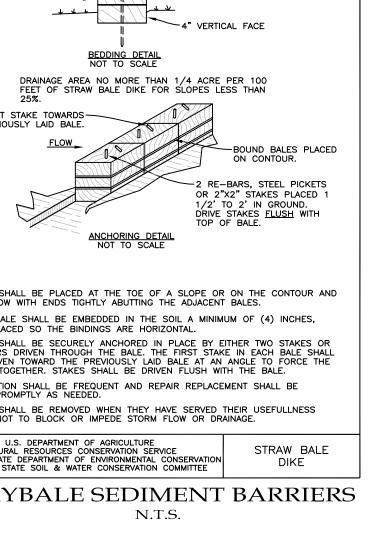
SECTION VIEW CONSTRUCTION SPECIFICATIONS 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH TIES OR STAPLES. POST SHALL BE STEEL

EITHER "T" OR "U" TYPE OR HARDWOOD. 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM

3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABLINKA T140N, OR APPROVED EQUIVALENT. 4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE N.T.S.



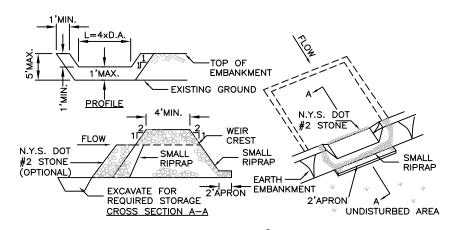
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN. 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL. 4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING. MAXIMUM DRAINAGE AREA 1 ACRE U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

EXCAVATED DROP
INLET PROTECTION INLET PROTECTION N.T.S.

SIDE SLOPE 2:1

EXCAVATED

DEPTH MIN. 1 TO A MAX. 2' BELOW TOP OF INLET



OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

**CONSTRUCTION SPECIFICATIONS** 1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER—SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE

HOLES FOR

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.

BY HARDWARE CLOTH TO ALLOW DRAINAGE

SEDIMENT MOVEMENT

COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED 3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMEN— SIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF 6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.

8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE

DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. MAXIMUM DRAINAGE AREA 5 ACRES

STONE OUTLET SEDIMENT TRAP ST-IV

3. INSTALL ANTI-TRACKING PAD AT ALL CONSTRUCTION ENTRANCES. ANTI-TRACKING PAD SHALL BE 2"-3" DIAMETER CRUSHED STONE

4. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT REMOVING DEVICES SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. SEDIMENT SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ADDITIONAL EROSION OR POLLUTION. ALL EDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND IMMEDIATELY AFTER EACH RAINFALL TO INSURE PROPER OPERATION AS DESIGNED. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

5. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LIMED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS OR OTHERWISE STABILIZED. DO NOT STOCKPILE MATERIALS ON STEEP SLOPES, IN DRAINAGE SWALES OR IN WETLAND AREAS. SURROUND ALL STOCKPILE AREAS WITH STAKED HAYBALES OR SILT FENCE.

6. ALL SLOPES CONSTRUCTED WITH FILL MATERIAL AND ALL SLOPES WITH GRADE 3:1 OR STEEPER SHALL BE TOPSOILED, SEEDED. MULCHED AND STABILIZED WITH STAKED TOBACCO NETTING, OR EROSION BLANKET AS NOTED, UNLESS OTHERWISE DIRECTED.

7. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.

8. ALL DISTURBED AREAS WITHIN 500 FEET OF A BUILDING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL. WATERING TRUCK WILL BE USED IN DRY SEASON TO WET DOWN DUST AREAS.

9. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE

10. ALL CATCH BASINS AND DRAIN INLETS ARE TO BE PROTECTED WITH SEDIMENT FILTERS THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE STABILIZED. 11. UTILITY LINE EXCAVATED MATERIAL SHALL BE TEMPORARILY

STOCKPILED ON THE HIGH SIDE OF EXCAVATION SO RUNOFF IS

DIRECTED AWAY FROM TRENCH. AFTER BACK-FILLING, AREA IS TO BE TOPSOILED, SEEDED AND MULCHED. 12. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA

HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES. 13. ALL AREAS OF DISTURBED SOIL SHALL BE STABILIZED BY THE CONTRACTOR. IN ADDITION TO ALL SPECIFIED EROSION CONTROL DEVICES, THE CONTRACTOR SHALL TAKE ALL STEPS PRUDENT AND NECESSARY TO STABILIZE THE SITE AT ALL TIMES.

14. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS" (BLUE BOOK).

CONTRACTORS.

THE INITIAL FIELDWORK SHALL CONSIST OF SURVEYING AND STAKING FOR DISTURBANCE LIMITS AND EROSION CONTROL INSTALLATION.

THE PLACEMENT OF A CONSTRUCTION TRAILER AND/OR FIELD OFFICE AND A

CONSTRUCTION STAGING AREA, IF NECESSARY, SHALL COMMENCE.
ALL TREES TO BE PRESERVED WITHIN THE DISTURBANCE LIMITS SHALL BE
MARKED AND PROTECTED PRIOR TO THE START OF CLEARING OPERATIONS.
EROSION CONTROLS SHALL BE INSTALLED AS SHOWN ON THE EROSION
CONTROL PLAN AND AS PER THE RESPECTIVE EROSION CONTROL DETAILS

PER THE CONSTRUCTION SEQUENCE SILT FENCE AND HAYBALES, WHERE INDICATED, SHALL BE INSTALLED.

ANTI-TRACKING PADS SHALL BE INSTALLED AT ALL CONSTRUCTION ENTRANCES.
TREES TO BE REMOVED SHALL BE CUT AT THIS TIME.

TREES STUMPS SHALL BE REMOVED AT THIS TIME. TREE STUMP REMOVAL SHALL ONLY INCLUDE STUMPS WITHIN THE IMMEDIATE WORK AREA. SILT FENCE DAMAGED BY TREE STUMP REMOVAL SHALL BE REPLACED. 10. THE SEPTIC SYSTEM SHALL BE CORDONED OFF AND PROTECTED FROM HEAVY EQUIPMENT AT THIS TIME.

CLEAR AND GRUB IN THE AREA OF THE SEDIMENT TRAPS.
 INSTALL SEDIMENT TRAPS. INSTALL STRAW BALES OR SILT FENCE FOR TEMPORARY SOIL STOCKPILE FROM SEDIMENT TRAP.
 INSTALL THE STAKED HAY BALES UPSTREAM OF SITE AND TEMPORARY

DIVERSION SWALES. CLEAR AND GRUB FOR REMAINING WORK AREA.
 SOIL STRIPPING AND STOCKPILING OCCUR AT THIS TIME 16. AFTER THE DIVERSION SWALES, SEDIMENT TRAPS, SILT FENCE AND HAYBALES HAVE ALL BEEN INSTALLED EARTHWORK OPERATIONS SHALL BEGIN.

EARTHWORK OPERATIONS INCLUDE ROCK DRILLING & BLASTING. PRIOR TO ANY BLASTING, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL BLASTING PERMITS NECESSARY.

• BUILDING CONSTRUCTION/GRADING/DRAINAGE/SEPTIC SYSTEM/UTILITY INSTALLATION 19. AS THE GRADE NEARS FINISHED FORM, THE BUILDING EXCAVATION FOR THE FOOTINGS AND THE FOUNDATIONS SHALL BEGIN.

18. A WATER TRUCK WILL BE AVAILABLE DURING DRY TIMES TO REDUCE

20. THE BUILDING'S SUPERSTRUCTURE CONSTRUCTION BEGINS ONCE THE FOUNDATIONS HAVE PROPERLY CURED AND BACKFILLING IS COMPLETE.

21. UTILITIES SUCH AS DRAINAGE, SEPTIC SYSTEM, AND ELECTRIC ALONG WITH OTHERS, AS REQUIRED, SHALL BE INSTALLED, BACKFILLED AND COMPACTED WHILE THE SUPERSTRUCTURE IS BEING BUILT.

22. AS THE DRAINAGE SYSTEM IS INSTALLED, IT SHALL BE PROTECTED TO ENSURE SEDIMENT DOES NOT ENTER THE SYSTEM. DRAIN INLETS AND CATCH BASINS SHALL BE RAISED APPROXIMATELY 3" ABOVE FINISHED GRADE DURING CONSTRUCTION, PRIOR TO PAVING, AND PRIOR TO BINDER COURSE

INSTALLATION, STONE AND BLOCK INLET PROTECTION SHALL BE INSTALLED AT ALL INLETS AND CATCH BASINS.

23. THE APPROPRIATE PROPOSED UTILITY SERVICES ARE INSTALLED TO THE PROPOSED BUILDING.

24. ONCE ROUGH GRADING OPERATIONS ARE COMPLETED, FINAL GRADING WILL COMMENCE AND BINDER COURSE WILL BE INSTALLED. AFTER BINDER COURSE IS INSTALLED, INLET PROTECTION SHALL BE PAVED SURFACE INLET 25. SEEDING, SODDING, AND OTHER SOIL STABILIZING LANDSCAPING MAY BE INSTALLED.

STABILIZATION

26. SEDIMENT FROM THE TEMPORARY SEDIMENT TRAP(S) SHALL BE REMOVED AND DISPOSED OF IN A LAWFUL MANNER. THE STORMWATER BASIN/POND SHALL BE BROUGHT TO FINAL GRADE AS PER THE GRADING PLAN.

27. RIP RAP AND OTHER TREATMENTS SHALL BE INSTALLED IN THE STORMWATER

BASIN/POND AS PER THE UTILITY PLAN. 28. THE PERMANENT STORMWATER BASIN/POND SHALL BE LANDSCAPED WITH SPECIFIED PLANTS. 29. ROADWAYS/PARKING AREAS SHALL BE PAVED WITH TOP COURSE AND STRIPED AS HEAVY EQUIPMENT IS NO LONGER REQUIRED ONSITE.

 REMOVAL OF EROSION CONTROL DEVICES 30. AS AREAS ARE STABILIZED, SEDIMENT SHALL BE REMOVED AND EROSION CONTROL DEVICES SHALL BE DISCARDED IN AN APPROPRIATE MANNER. FINAL STABILIZATION FOR VEGETATED AREAS REQUIRES AT LEAST 80% VEGETATIVE COVER. ALL DRAINAGE STRUCTURES SHALL BE INSPECTED AND CLEANED IF NECESSARY.

3 in. CLEAN STONE SECTION START AT EXIST. PAVEMENT 50' MIN. LENGTH

TO BE PROVIDED AT ALL POINTS OF EQUIPMENT INGRESS OR EGRESS ONTO PUBLIC RIGHTS-OF-WAY

INSTALLATION NOTES . STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE

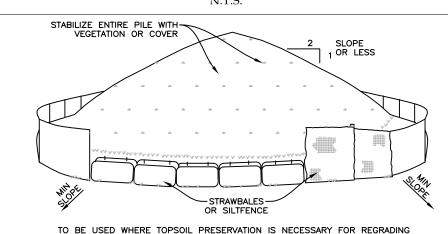
 LENGTH — AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY. THICKNESS - NOT LESS THAN SIX (6) INCHES.
 WIDTH - 25 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR. 5. FILTER CLOTH — WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY 6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWAR

CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. II

MAINTENANCE — THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES JSED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY. 8. WASHING — WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER

> STABILIZED CONSTRUCTION ENTRANCE (ANTI-TRACKING PAD)



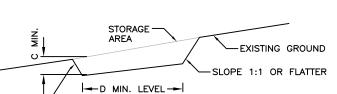
TO BE USED WHERE TOPSOIL PRESERVATION IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS. TOPSOIL IS APPLIED TO SUBSOILS THAT ARE DROUGHTY (HAVING LOW AVAILABLE MOISTURE FOR PLANTS), STONY, SALTY, HAVE LOW PERMEABILITY, OR ARE EXTREMELY ACID. IT IS ALSO USED TO BACKFILL AROUND SHRUB AND TREE TRANSPLANTS. PRESERVATION OF EXISTING TOPSOIL IS BENEFICIAL FOR ALL TYPES OF LAWN OR ORNAMENTAL PLANTINGS. TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVER, MULCH, NON-VEGETATIVE COVER, AND PERIPHERAL SEDIMENT

INSTALLATION NOTES 1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.

**TEMPORARY** MATERIAL STOCKPILE N.T.S.

SEDIMENT TRAP 1 SIZING			
	REQUIRED	PROPOSED	
DRAINAGE AREA 1	5 AC. MAX	0.997 AC.	
STORAGE REQUIRED	3600 C.F./AC. =3,589.88 C.F.	3,590 C.F.	

SEDIMENT TRAP 2 SIZING			
	REQUIRED	PROPOSED	
DRAINAGE AREA 2	5 AC. MAX	0.709 AC.	
STORAGE REQUIRED	3600 C.F./AC. =2,551.61 C.F.	2,577 C.F.	



CROSS SECTION POSITIVE DRAINAGE: 0.5% OR STEEPER DEPENDENT ON TOPOGRAPHY  $\overline{\lambda}$   $\lambda$   $\lambda$   $\lambda$   $\lambda$   $\lambda$   $\lambda$   $\lambda$ 

REQUIRED SEE ITEM

 $\overline{\phantom{a}}$ PLAN VIEW CONSTRUCTION SPECIFICATIONS

1. ALL TEMPORARY SWALES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET. 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE. 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.

4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE. 5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT. 7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE. 8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

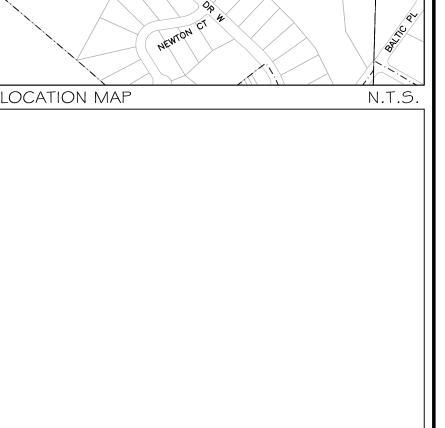
GRADE A(5 AC. OR LESS)

0.5-3.0% SEED AND STRAW MULCH
3.1-5.0% SEED AND STRAW MULCH TREATMENT SEED AND STRAW MULCH SEED USING JUTE OR EXCELSIOR 5.1-8.0% SEED WITH JUTE OR EXCELSIOR LINED WITH 4-8" RIP-RAP OR RECYCLED CONCRETE EQUIVALENT 8.1-20.% LINED WITH 4-8" RIP-RAP

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH

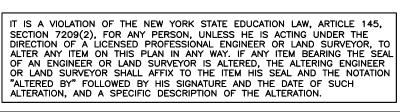
TEMPORARY SWALE DETAIL

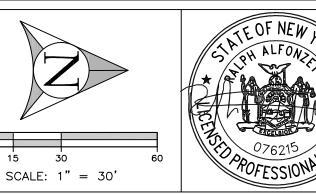
N.T.S.



N.Y.S. ROUTE 9







ALFONZETTI ENGINEERING, P.C 14 SMITH AVE, MT. KISCO, N.Y. 10549 914-666-9800 INFO@ALFONZETTIENG.COM

SITE DATA OWNER/APPLICANT: MATRA GROUP LLC 380 ALBANY POST ROAD CROTON ON HUDSON, N REVISED: OCTOBER 18, 2022 REVISED: SEPTEMBER 16, 2022 REVISED: SEPTEMBER 6, 2022 REVISED: JUNE 27, 2022 REVISED: NOVEMBER 1, 2021 LOT AREA: 1.618 AC D-1 (LIMITED OFFICE) NEGD (NORTH END)

EROSION CONTROL PLAN JANUARY 21, 2021

1380 ALBANY POST ROAD

PROPOSED DEVELOPMENT ROTON ON HUDSON, WESTCHESTER COUNTY, NEW YORK

