A. DESIGN CRITERIA:

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

B. INSTALLATION AND/OR APPLICATION PROCEDURES:

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

C. OPERATION, MAINTENANCE PROGRAM, INSPECTIONS:

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

- 2. All revisions after approval has been granted shall be forwarded to the appropriate commissions and the Town Engineer.
- 3. The Town Zoning Departments shall receive written notification seventy-two hours before the start of any
- 4. All erosion control measures associated with the construction are to be installed and maintained in accordance with the schedule and requirements. Additional control measures shall be installed during the construction period as necessary and required.
- 5. All soil erosion and sediment control measures must be installed before any construction activities.
- 6. Filter fabric/silt fence will be installed along the toe of all critical cut and fill slopes.
- 7. Sediment removed from control measures must be disposed of at a location approved by the design engineer that will not cause additional sedimentation to the surrounding area.

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

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

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

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

D: BEST MANAGEMENT PRACTICES:

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

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

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

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

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

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

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

shall provide a means of catching, retaining and properly disposing of drained oil, removed oil filters, and other deleterious material. All spills of such materials shall be reported immediately by the contractor to

8. Dumping of oil, chemicals, or other deleterious materials on the ground is forbidden. The contractor

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

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

E. SOIL STABILIZATION MEASURES:

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

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

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

A. Ground limestone at a rate of 90 lbs. per 1,000 s.f.

B. Fertilizer at a rate of 7.5 lbs. per 1,000 s.f. using a 10-10-10 analysis or an equivalent.

C. Annual Rye grass seeding applied at a rate of not less than 1 lb. per 1,000 s.f.
D. Mulch all newly seeded areas with 80 lbs. of salt hay or small grain straw per 1,000 s.f.

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

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

6. Permanent vegetation:

A. Materials specifications for lawn areas:

Soil: A minimum of 4" topsoil Lime: 90 lbs. of ground limestone per 1,000 s.f.

(iii) Fertilizer: 14 lbs. per 1,000 s.f. using a 10-20-10 analysis or an equivalent.

(iv) Seed: Permanent Vegetation - Lawn Common Name Lbs./Acre Lbs./1,000 s.f.

Kentucky Bluegrass Creeping Red Fescue Perennial Rye

F. DUST CONTROL:

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

The following general procedure shall be used:

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

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

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

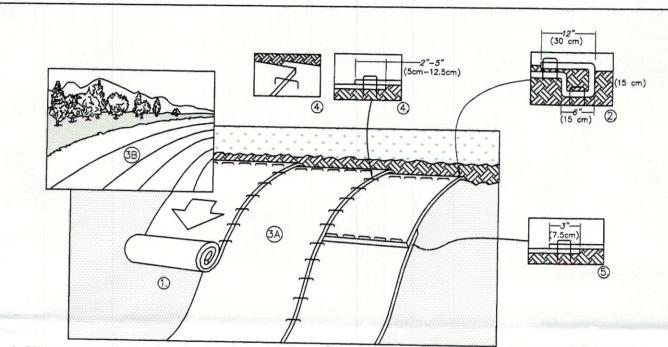
c) Limit construction traffic to predetermined onsite routes.

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

G. RESPONSIBLE PARTIES:

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

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



. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL—O—SEED DO NOT SEED PREPARED AREA. CELL—O—SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. ANCHOR THE BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS WUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM. STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE BLANKET WIDTH.

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

AS NEEDED OR DIRECTED BY ENGINEER EROSION CONTROL BLANKET INSTALLATION DETAIL

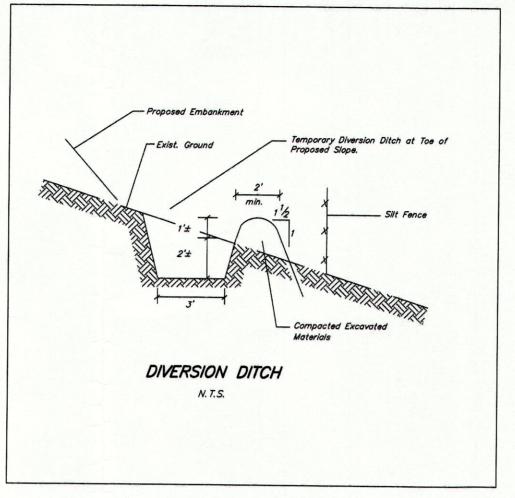
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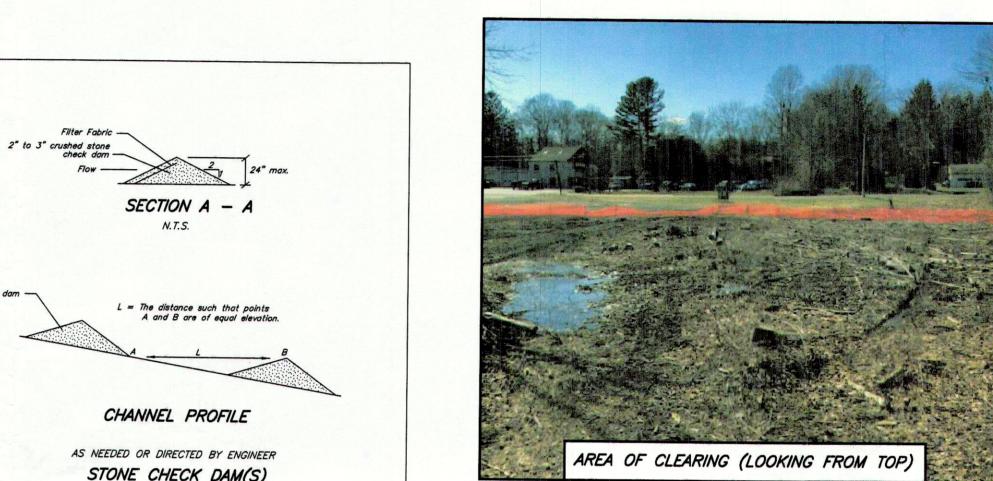
EROSION CONTROL BLANKETS:

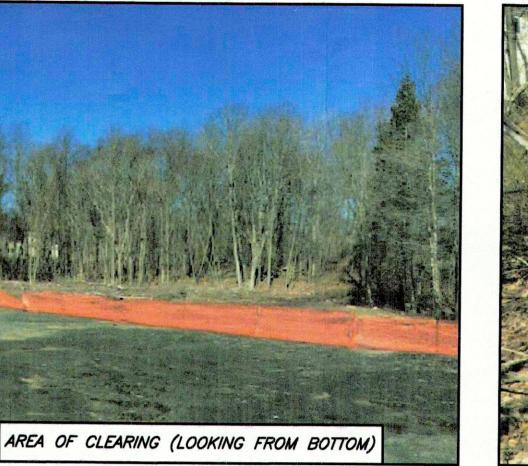
(The following blanket will be install if conditions require or as directed by engineer)

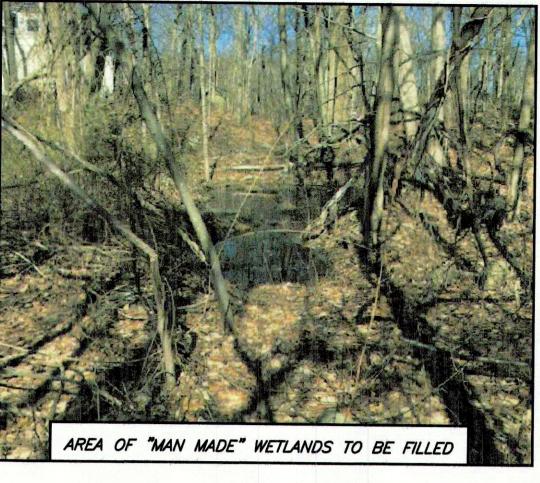
S75: Material: 100% straw matrix sewn into a photo-degradable net.

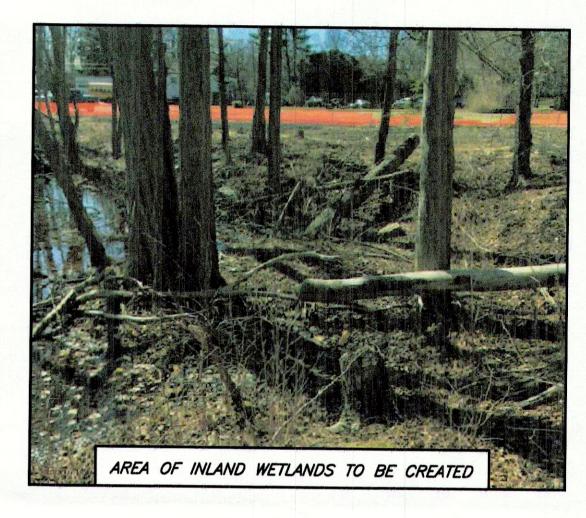
Straw: 5 lbs/sq. yd. Net: Lightweight degradable (Top side only)

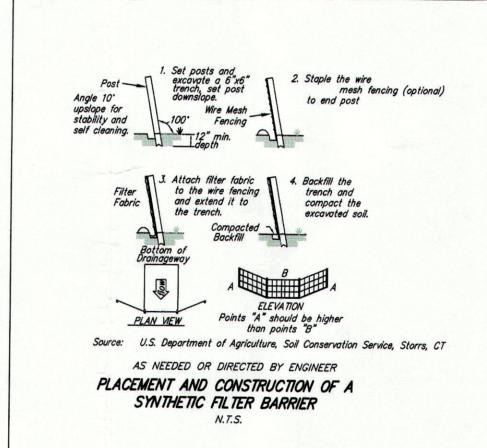










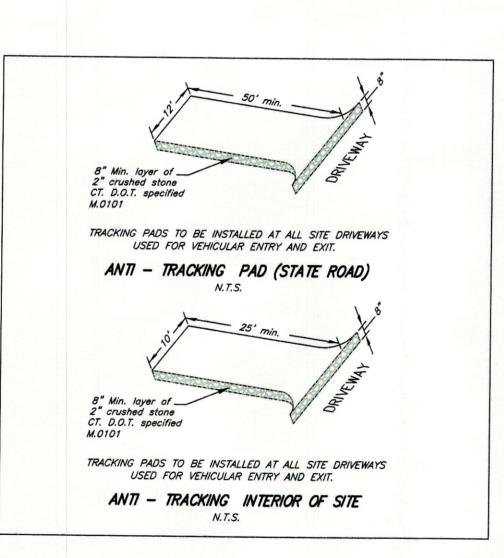


NEW ENGLAND ENVIRONMENTAL SERVICES

(860)-295-1022

Richard Snarski - Registered Soil Scientist

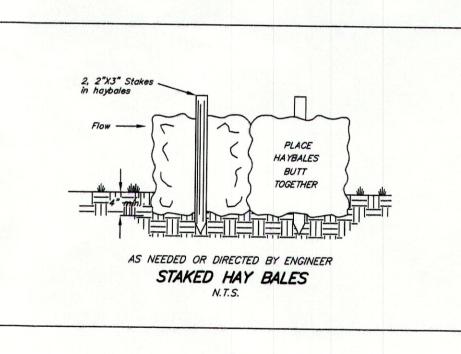
155 Jerry Daniels Road, Marlborough, CT 06477



DATE

Michael P. Harkin

REVISIONS



CONTRACTOR REVIEW NOTE

The Contractor / Builder is to verify all applicable Code and installation requirements. Any discrepancies (pipe slopes, inverts, setbacks, computations, etc.) shall be brought to the design engineers attention immediately.

EROSION CONTROL NOTES:

- 1. Land disturbance shall be kept to the minimum necessary for construction operations.
- 2. All soil erosion and sediment control measures must be constructed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control by the Connecticut Council on Soil and Water Conservation in cooperation with the Connecticut Department of Environmental Protection.
- 3. Erosion and sediment control measures shall be installed as depicted on this plan, and maintained in an effective condition throughout the construction period. Additional measures shall be installed as necessary and required.
- 4. The Contractor (To Be Determined) is assigned the responsibility for implementing the control measures of this plan. This responsibility includes the installation and maintenance of control measures, informing all parties engaged on the construction site of the requirements and objectives of this plan, and notifying the Planning and Zoning Commission of the transfer of this responsibility, and for conveying a copy of this plan if title to the property is transferred.

EROSION CONTROL REQUIREMENTS

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

OWNER / APPLICANT:

Trading Post Development LLC ATTN: Christopher Swiss #30 Pond Meadow Road Killingworth, CT 06419

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

(860) 759-4358

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MISC. CONSTRUCTION DETAILS & NOTES

Prepared For: "TRADING POST DEVELOPMENT LLC" **#968 KILLINGWORTH ROAD** (CT RT #81) MAP: 60 LOTS: 3,7,8 & 9 Haddam. Connecticut

RAWING SCALE: As - Noted

HARKIN ENGINEERING, LLC CIVIL ENGINEERING CONSULTING

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

JOB NO. 20-40 DRAWN BY: M.P.H. DATE: 3/30/22 SHEET NO.