

SOIL EROSION & SEDIMENT CONTROL PLAN NARRATIVE

INTRODUCTION:

PURSUANT TO CONNECTICUT P.A. 83--388, A SOIL EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE IS REQUIRED FOR THIS PROJECT. THIS NARRATIVE DESCRIBES MEASURES REQUIRED TO CONTROL SOIL EROSION DURING AND AFTER CONSTRUCTION OF THE PROPOSED SITE WORK SHOWN ON THIS PLAN. THE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN ARE DESIGNED IN ACCORDANCE WITH A DOCUMENT ENTITLED "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL," PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CT DEP. THE GUIDELINES ARE OBTAINABLE FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OFFICE BUILDING, HARTFORD, CONNECTICUT 06106 AND SHOULD BE USED AS A REFERENCE IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

PROJECT DESCRIPTION:

THE APPLICANT PROPOSES TO CONSTRUCT A 10,150(±) SQUARE FOOT BUILDING WITH APPLICANT PARKING. THE BUILDING WILL BE SERVED BY PUBLIC SEWER AND WATER. THE SITE IS LOCATED AT 49 HAYDEN HILL ROAD IN TORRINGTON, CT. RUN OFF FROM THE DEVELOPED SITE WILL BE COLLECTED IN CATCH BASINS AND PIPED TO AN ON-SITE TREATMENT BASIN WHICH WILL OUTLET TO AN EXISTING STORMWATER SYSTEM IN GREENWOODS ROAD. RIRRAP WILL BE INSTALLED AT ALL PIPE OUTLETS TO MINIMIZE SOIL EROSION.

ANTICIPATED START OF CONSTRUCTION IS SPRING OF 2020. SEDIMENT AND EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND WILL BE IN PROPER WORKING ORDER BEFORE CONSTRUCTION BEGINS. SEDIMENT AND EROSION MEASURES WILL BE MAINTAINED IN PROPER WORKING ORDER THROUGH COMPLETION OF CONSTRUCTION AND WILL REMAIN IN PLACE AND CONTINUE TO BE MAINTAINED AFTER CONSTRUCTION HAS BEEN COMPLETED. UNTIL ALL DISTURBED AREAS ARE STABILIZED.

CONSTRUCTION SCHEDULE:

1. OBTAIN A COPY OF ALL PROJECT LAND-USE PERMITS. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL PERMIT REQUIREMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. INSTALL CONSTRUCTION CONTROL FENCES AND FILTER FABRIC SILT BARRIERS
3. INSTALL CONSTRUCTION ENTRANCE
4. REMOVE TREES, BRUSH, AND STUMPS IN AREAS TO BE CLEARED AS REQUIRED.
5. STRIP TOPSOIL FROM WORK AREAS, STOCKPILE AND INSTALL SILT FENCE AT TOE OF PILE.
6. ROUGH GRADE DETENTION BASIN.
7. ROUGH GRADE SITE, BEGIN CONSTRUCTION OF BUILDING.
8. INSTALL UTILITYES AND FILTER FABRIC SILT BARRIERS AT NEW CATCH BASINS.
9. BACKFILL FOUNDATION.
10. ROUGH GRADE NEW PARKING AREAS, INSTALL AND GRADE PAVEMENT BASE AND CURBS.
11. PAVE PARKING AREAS AND INSTALL WALKS.
12. GRADE, STABILIZE AND SEED ALL DISTURBED AREAS.
13. MAINTAIN ALL EROSION CONTROL MEASURES UNTIL A DURABLE GRASS STAND IS ESTABLISHED IN ALL NON-PAVED AREAS.

LAND DISTURBANCE:

- THE FOLLOWING PROCEDURES SHALL BE USED FOR ALL LAND DISTURBING ACTIVITIES:
1. ALL AREAS SHALL REMAIN UNDISTURBED UNTIL IMMEDIATELY PRIOR TO PROPOSED CONSTRUCTION ACTIVITIES.
 2. LAND CLEARING SHALL PROCEED AT THE SAME RATE AS CONSTRUCTION.
 3. REMOVAL OF VEGETATION SHALL BE RESTRICTED TO THOSE AREAS DESIGNATED AS NECESSARY FOR CONSTRUCTION ACTIVITIES OF 20 FEET BEYOND THE PHYSICAL DIMENSIONS OF THE ROAD, DRIVEWAYS, UTILITY TRENCHES, SEPTIC SYSTEMS, AND AREAS TO BE GRADED.
 5. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE CONFINED TO THE DISTURBED AREAS ONLY.
 6. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEANING OF NEARBY STREETS, AS ORDERED BY THE TOWN OR STATE, OF ANY DEBRIS FROM HIS CONSTRUCTION ACTIVITIES.
 7. THE USE, STORAGE, OR DISPOSAL OF ANY MATERIAL, NOT IN ACCORDANCE WITH THE APPROVED PLAN OR REQUIRED BY THE REGULATORY AGENCY MAY RESULT IN THE IMMEDIATE REVOCATION OF ANY PERMIT/APPROVAL GRANTED BY THE COMMISSION.

GENERAL NOTES:

WHENEVER CONSTRUCTION SHALL TAKE PLACE IN AREAS DESIGNATED AS WETLANDS OR OTHER REGULATED AREAS, THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING REGULATIONS:

THE DIVERSION OF WATERCOURSES SHALL BE CONDUCTED IN SUCH A MANNER AS TO PREVENT INJURY TO PERSONS OR PUBLIC HEALTH AND TO PREVENT FLOODING OF PUBLIC OR PRIVATE PROPERTY.

ALL EXISTING VEGETATION SHALL BE PROTECTED, AND ONLY THAT CLEARING AND GRUBBING NECESSARY TO ACCOMPLISH THE PROPOSED CONSTRUCTION SHALL BE TAKEN TO CLEAR THE PERMANENT RIGHT-OF-WAY SHALL BE ALLOWED. CARE SHALL BE TAKEN TO PROTECT ALL SPECIMEN TREES, THOSE TREES IDENTIFIED BY SUITABLE MEANS, ALL REGULATED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOURS. EXCAVATED MATERIAL, INCLUDING THAT RESULTING FROM CLEANING AND GRUBBING, SHALL NOT BE DEPOSITED WITHIN THE REGULATED AREA.

WORK WITHIN REGULATED AREAS:

IF WORK IS REQUIRED WITHIN REGULATED WETLAND, WATER COURSE, OR ADJACENT AREA, SITE DISTURBANCE SHALL BE LIMITED TO THE AREA ABSOLUTELY NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE RESTORED AS CLOSELY AS POSSIBLE TO THEIR ORIGINAL NATURAL STATE. THE DEVELOPER SHALL OBTAIN THE NECESSARY PERMIT(S) FROM THE TOWN WETLANDS COMMISSION. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PERMIT MAPS APPROVED BY THE TOWN WETLANDS COMMISSION AND SHALL OBTAIN THE NECESSARY PERMIT(S) FOR CONSTRUCTION WITHIN THESE REGULATED AREAS. THE CONTRACTOR SHALL BE REQUIRED TO STRICTLY ADHERE TO ALL REQUIREMENTS AND RESTRICTIONS IMPOSED BY THE WETLANDS PERMIT.

SOIL EROSION AND SEDIMENT CONTROL MEASURES:

ALL WATERCOURSES SHALL BE PROTECTED FROM SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION. THIS PROVISION APPLIES PARTICULARLY TO DEWATERING ACTIVITIES, STORAGE OF EXCAVATED OR STOCKPILED MATERIAL, AND TRENCH OR DITCH EXCAVATION.

HAYBALES OR SYNTHETIC FILTER BARRIER FENCE, AS SPECIFIED, IS TO BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION. THE FENCE SHALL BE PLACED AT THE TOE OF SLOPES TO PREVENT EROSION AND TO PREVENT FLOODING OF PUBLIC OR PRIVATE PROPERTY. WATER COURSES, HAYBALES OR SILT FENCE SHALL BE STAKED AS SHOWN ON THE PLAN, AND ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE HAYBALES OR SILT FENCE. THIS REMOVAL SHALL BE DONE BY HAND OR BY OTHER MEANS THAT DO NOT DISTURB THE HAYBALES AND SILT FENCES ARE TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCES ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA AS POSSIBLE FOR AS SHORT A PERIOD AS FEASIBLE. VEGETATION SHALL BE PROTECTED AND MAINTAINED DURING CONSTRUCTION. ANY ADDITIONAL SEDIMENT/EROSION CONTROL MEASURES DEEMED NECESSARY BY THE TOWN SHALL BE IMPLEMENTED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR, REPLACEMENT, AND MAINTENANCE OF ALL SEDIMENT/EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN.

STRIPPING AND STOCKPILING:

STRIPPED AND STOCKPILED EROSIONABLE MATERIAL, SUCH AS STRIPPED TOPSOIL, SHALL BE PROTECTED FROM ROAD CUTS AND FOUNDATION HOLES, ETC., SHALL CONFORM TO THE FOLLOWING CRITERIA:

1. LOCATION--ALL STOCKPILES SHALL BE LOCATED WITHIN THE AREA OF THE PROPOSED DISTURBANCE AND AWAY FROM THE FOLLOWING:
 - WETLANDS
 - EXCHANGE CHANNELS
 - STORM DRAINAGE SYSTEM INLETS
 - TOP OF STEEP SLOPES

2. SEDIMENT CONTROL--ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT BARRIERS, EITHER GEOTEXTILE SILT FENCE OR HAY BALE BARRIERS, PLACED APPROXIMATELY TEN FEET (10') FROM THE TOE OF SLOPE. THE SLOPE SLOPES OF EXPOSED STOCKPILED MATERIAL SHALL BE STABILIZED WITHIN THIRTY DAYS OF STOCKPILE FORMATION OF THE STOCKPILE.

THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATERIAL PRIOR TO TRENCHING OPERATIONS, AND SHALL STORE THEM SEPARATELY FROM THE OTHER MATERIALS. EXCAVATED TOPSOIL SHALL BE STORED AS STRIPPED AND STORED SEPARATELY DURING BACKFILLING. THESE MATERIALS SHALL BE REPLACED AND FINISHED AS THEY EXISTED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT INTRODUCE ANY FILL MATERIALS INTO ANY AREAS DESIGNATED AS WETLANDS WITHOUT FIRST OBTAINING A PERMIT(S) FROM THE TOWN WETLANDS COMMISSION.

THE CONTRACTOR SHALL MAINTAIN ALL BACKFILLED EXCAVATION IN PROPER CONDITION UNTIL EXPIRATION OF THE MAINTENANCE PERIOD. ALL DEPRESSIONS APPEARING IF NECESSARY.

BERM: IF SPECIFIED, IS TO BE INSTALLED FOR ENERGY DISSIPATION AND TO CONTROL EROSION. THE RIRRAP IS TO BE INSTALLED BEFORE THE DIRT STRUCTURES ARE WORKING, AND ALL ADJACENT AREAS ARE TO BE IMMEDIATELY SEEDED. IF IN SEASON, MULCHING, OR OTHER METHODS AS DEFINED IN THE "GUIDELINES". RIRRAP SHALL BE INSPECTED PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIRRAP OR FILTER BARRIER, OR OBSERVED ANY OF THE RIRRAP OR FILTER BARRIER MATERIALS. REPAIR IMMEDIATELY UPON OBSERVED FAILURE.

DISPOSAL OF TREES AND BRUSH:

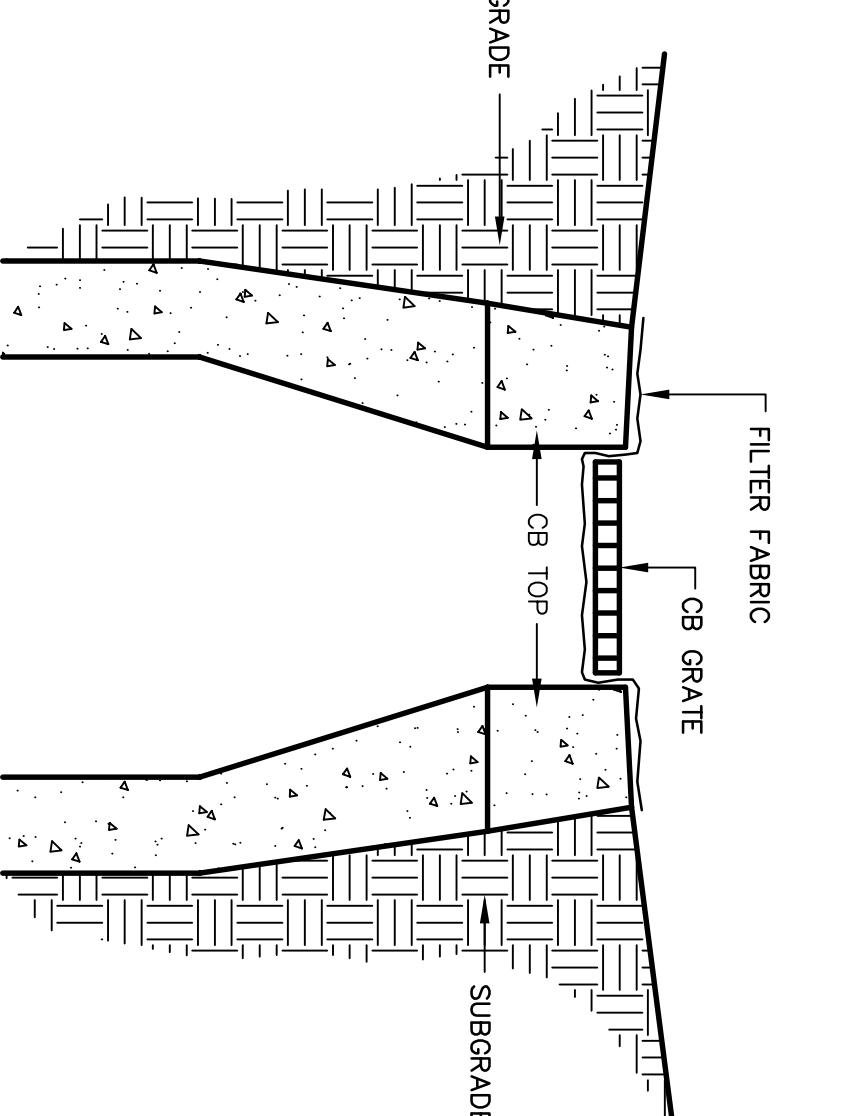
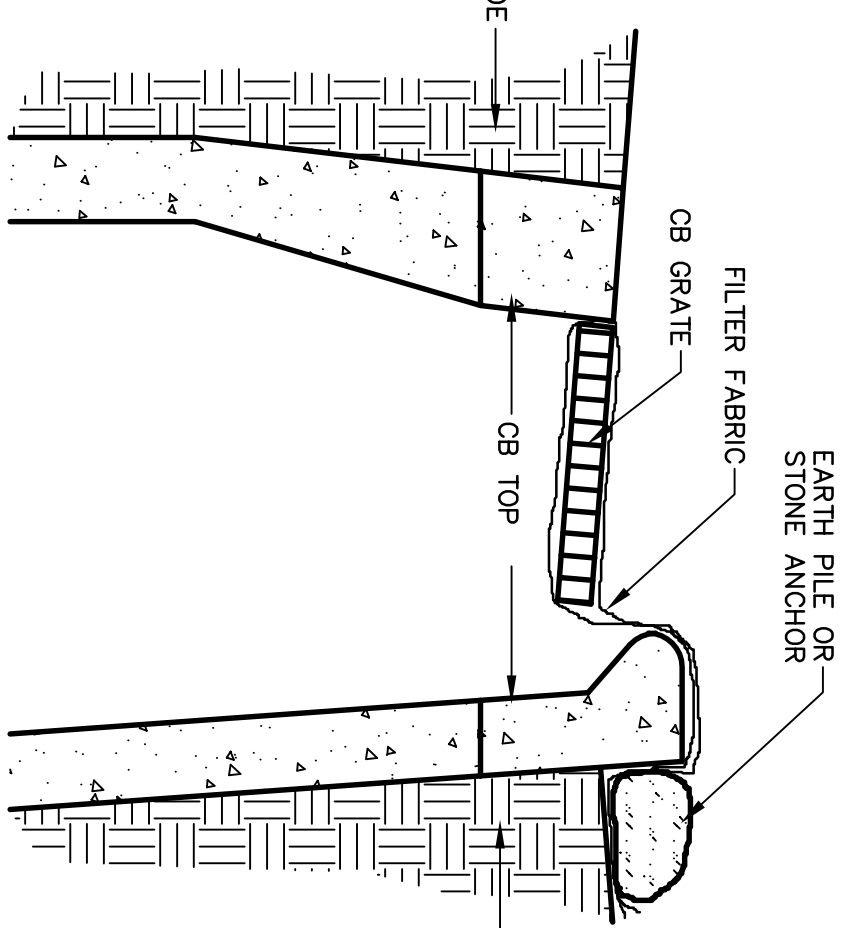
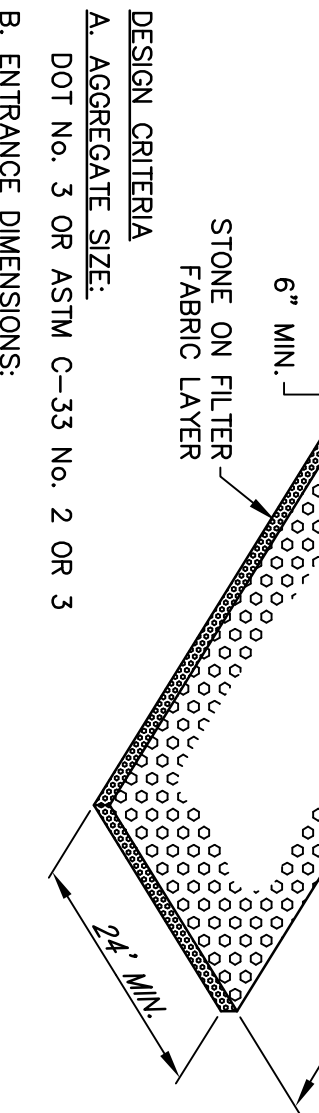
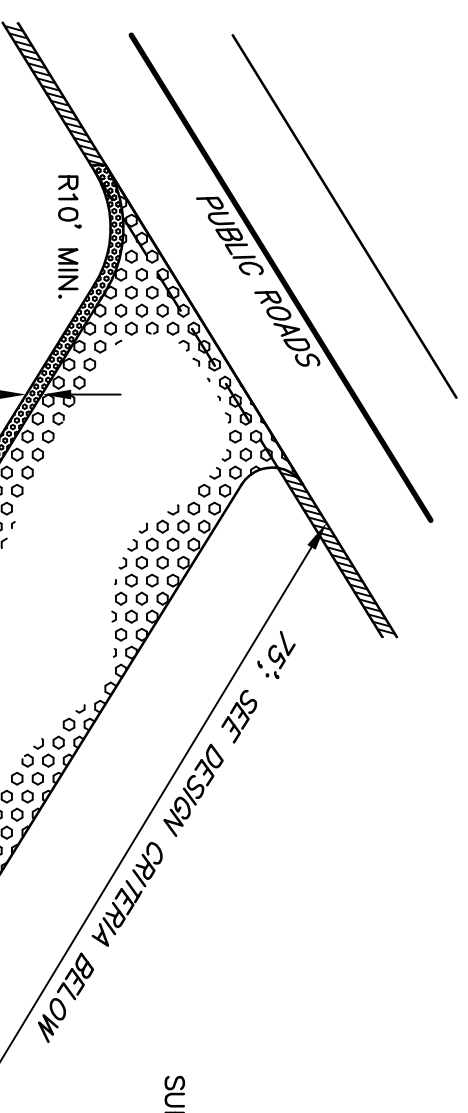
ALL VEGETATION REQUIRING REMOVAL FOR CONSTRUCTION OF THE PROJECT SHALL BE DISPOSED OF ON-SITE. NO TREES, BRUSH, OR STUMPS SHALL BE BURIED OR OTHERWISE DISPOSED OF OFF-SITE.

TRENCH EXCAVATION AND BACKFILL:

ALL TRENCHES SHALL BE EXCAVATED TO THE CORRECT LINE AND GRADE AND WITHIN STATED POINTS. THE METHODS AND EQUIPMENT USED FOR EXCAVATION MUST BE ADAPTED TO THE CONDITIONS AT THE SITE OR STREET SURFACE. THE REQUIRED TRENCH, THE WIDTH OF THE GROUND OR STREET SURFACE, CUT OR DISTURBED, SHALL BE KEPT AS SMALL AS PRACTICABLE TO ACCOMMODATE THE WORK. THE TWO FOOT DEPTH WHICH IS TO BE STRIPPED AND STORED SEPARATELY SHALL BE STOCKPILED AND USED AS THE TRENCH BACKFILL MATERIAL, UNLESS THE ENGINEER DECLARES IT UNSUITABLE FOR BACKFILL MATERIAL. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR.

ESTABLISH VEGETATION COVER ON DISTURBED AREAS:

1. SPARSE SURFACE OF ALL AREAS TO BE TOPSOILED: PLACE A MINIMUM OF 4" TOPSOIL ON ALL AREAS TO BE SEEDED.
2. FERTILIZE AT THE FOLLOWING RATES:
 - a) 10 LB./1000 SF. FERTILIZER AT A RATE OF SIX TO EIGHT WEBS LATER AN ADDITIONAL 10 LB./1000 SF IS TO BE APPLIED.
 - b) FOR FALL SEEDING, APPLY 19-19-19 FERTILIZER AT A RATE OF 10 LB./1000 SF AND WORK INTO SOIL.
3. SMOOTH AND FIRM SEEBED; APPLY SEED AT THE RATE(S) SPECIFIED BELOW. APPLY APPROPRIATE SEED MIXTURE PER THE FOLLOWING:
 - PERMANENT SEEDING RESSEVE
 - 30% SEEDING MIXTURE (WINTER SOIL PROTECTION)
 - 35% ALL-SHORT PERENNIAL RYE APPLICATION RATE: 2 LB./1000 SF
 - 35% ALL-SHORT PERENNIAL RYE APPLICATION RATE: 5 LB./1000 SF
4. WHICH IMMEDIATELY WITH HAY FREE FROM WEED SEEDS AT A RATE OF 3 BALES/1000 SF.



NOTE:
REMOVE CB GRATE; PLACE FILTER FABRIC;
REPLACE GRATE, TAKING CARE NOT TO
DAMAGE FILTER FABRIC. ANCHOR W/
STONE OR EARTH PILE

TYPE "C"

NOTE:
REMOVE CB GRATE; PLACE FILTER FABRIC;
REPLACE GRATE, TAKING CARE NOT TO
DAMAGE FILTER FABRIC.

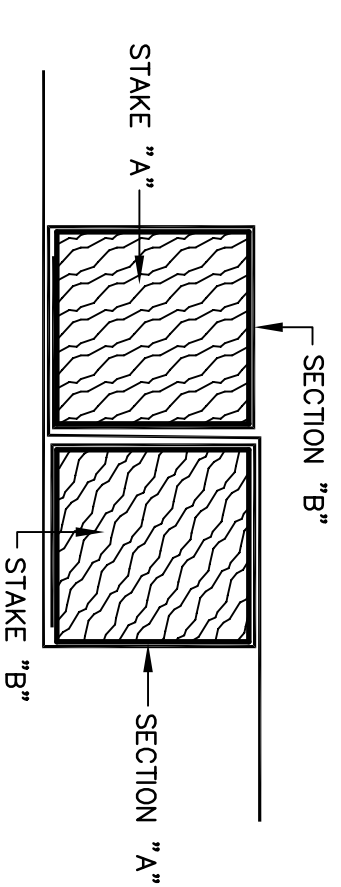
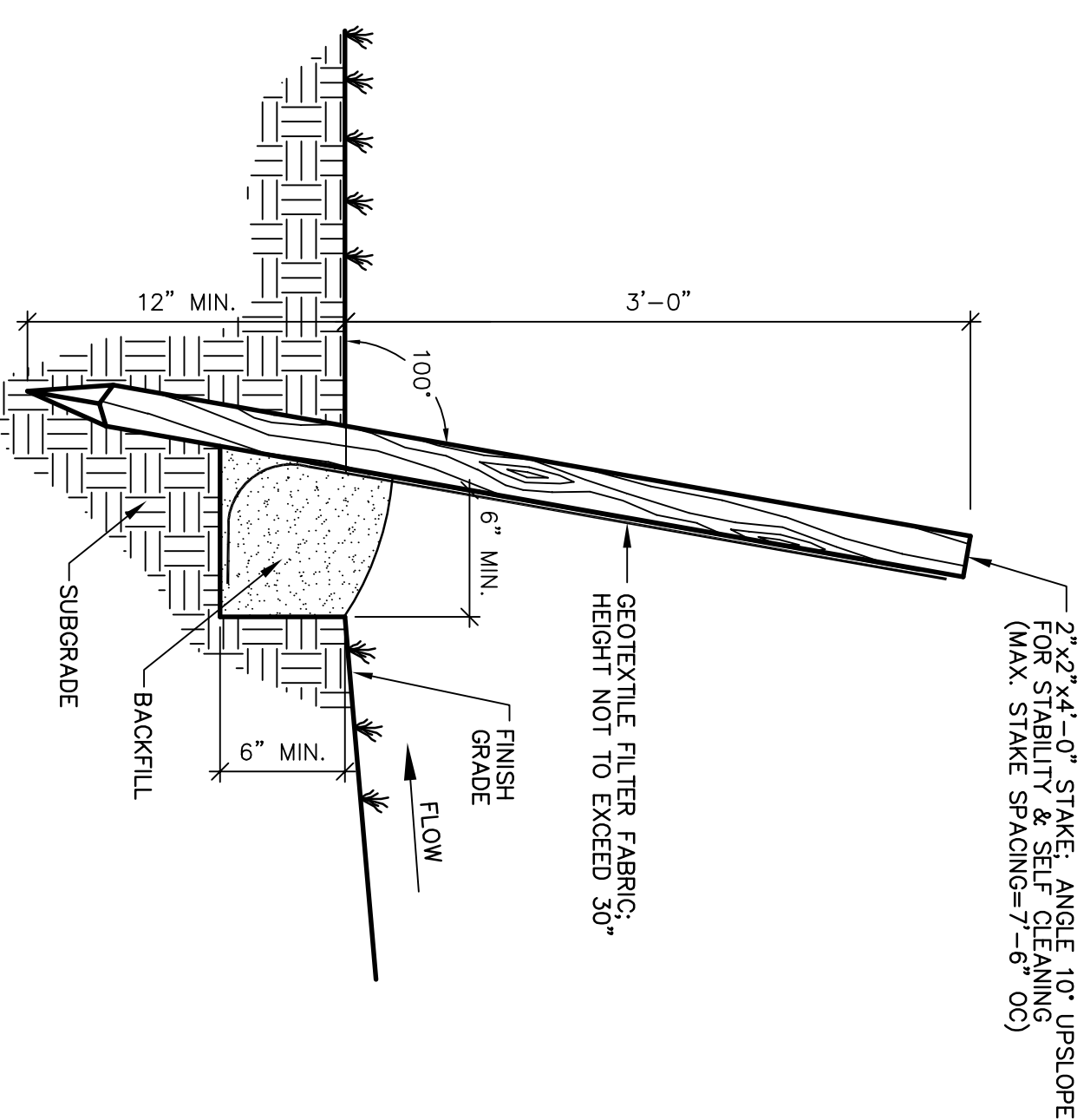
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CONSTRUCTION ENTRANCE

N.T.S.

FILTER FABRIC SILT BARRIER AT CATCH BASIN

N.T.S.



SILTATION CONTROL FENCE

N.T.S.

PROJECT: **Nickerson GENERAL CONTRACTORS**
49 HAYDEN HILL ROAD, TORRINGTON, CT 06790

DRAWN BY: G.R.W. APPROVED BY: J.H.P.

DATE: 02-20-20 SCALE: NTS

2155 EAST MAIN STREET, TORRINGTON, CT 06790
860-482-7613; WEB: WWW.BORGHESIBUILDING.COM

SHEET NO. **SPD1**

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