

EROSION CONTROL NOTES

- 1. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST MAJOR REGIONAL AND SEDIMENT CONTROL BANS BY THE BUREAU OF LAND AND WATER QUALITY. MAJOR DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 2. THE CONTRACTOR SHALL ONLY DISTURB THE AREAS OF THE PROPOSED CONSTRUCTION AND GRADING. ANY DISTURBANCE OUTSIDE THESE LIMITS MUST BE APPROVED BY THE ENGINEER.
- 3. THE CONTRACTOR SHALL PROTECT THE EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE REGIONAL CONTROL BANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL METHODS BEYOND THE CONTROL SLOPES ON THE PLANS IN ORDER TO MEET THE ABOVE REFERENCED DEF EROSION CONTROL STANDARDS.
- 4. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR RED GRADING. ALL DISTURBED AREAS ON SITE NOT COVERED BY BUILDINGS OR DESIGNATED PARKING AREAS, DRIVEWAYS, OR DRIVEWAYS SHALL BE STABILIZED WITH LOAM AND SEED OR OTHER MEASURES AS REQUIRED/DESCRIBED IN THE MAJOR DEF EROSION STANDARDS.
- 5. PERMANENT SEEDING OR STABILIZATION SHALL BE PERFORMED IMMEDIATELY AFTER FINAL GRADING IS COMPLETED OR TEMPORARY MEASURES SHALL BE APPLIED SUCH AS MULCHING OR SEEDING UNTIL PERMANENT MEASURES ARE IN PLACE.
- 6. WITHIN 7 CALENDAR DAYS FOLLOWING THE COMPLETION OF ANY SOIL DISTURBANCE, AND PRIOR TO ANY STORM EVENT, MULCH MUST BE SPREAD ON ANY EXPOSED SOILS.
- 7. THE CONTRACTOR SHALL STABILIZE ANY SOIL STOCKPILES WHICH WILL REMAIN UNUSED FOR MORE THAN 7 DAYS, OR PRIOR TO A STORM EVENT.
- 8. ALL EROSION CONTROL DEVICES MUST BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO MINIMIZE POUNDING, DAMAGE, DETERIORATION OR UNDERMINING. ANY PROBLEMS SHALL BE REPAIRED IMMEDIATELY. TRAPPED SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO NO MORE THAN HALF THE ORIGINAL HEIGHT OF ANY BARRIER OR AS OTHERWISE SHOWN ON THE PLANS.
- 9. ALL TRAFFIC INTO AND OUT OF THE SITE SHALL BE OVER THE STABILIZED CONSTRUCTION EXT.
- 10. LUNDS UNTO CONSTRUCTION SHALL BE SEEDD AND MULCHED WITHIN 7 DAYS AFTER BACKFILL AND NO MORE THAN 500 FEET SHALL BE OPEN AT ANY ONE TIME. UNDER CONSTRUCTION WITH JOB SAFETY REQUIREMENTS, ALL EXPOSED MATERIALS SHALL BE PLACED ON THE UPDRILL SLOPES OF ALL TRENCHES. ALL TEMPORARY EXPOSED AREAS SHALL BE SEEDD AND MULCHED WITH TEMPORARY VEGETATION WITHIN 7 DAYS AFTER GRADING.
- 11. SEDIMENT BARRIERS MUST BE MAINTAINED UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 12. EROSION CONTROL DEVICES (CHECK DAM, EROSION CONTROL BANKET, SEDIMENT BARRIER, STABILIZED CONSTRUCTION ENTRANCE) SHALL BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION.

WINTER CONSTRUCTION NOTES

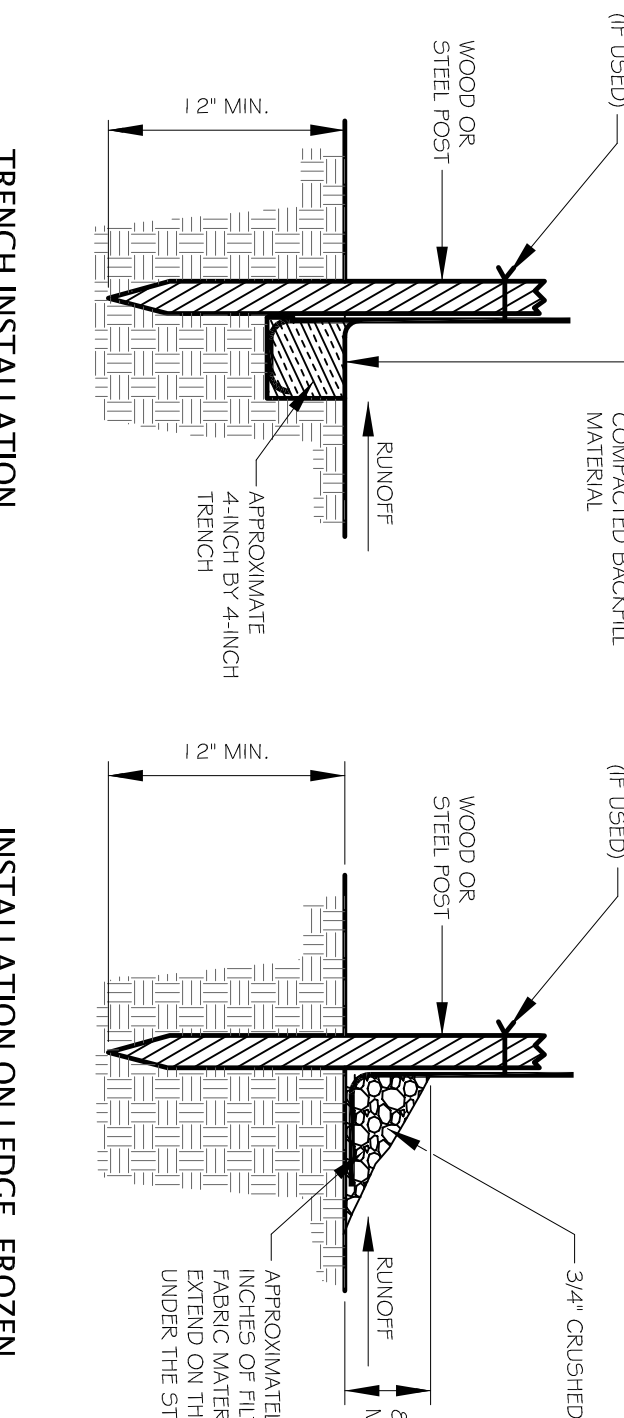
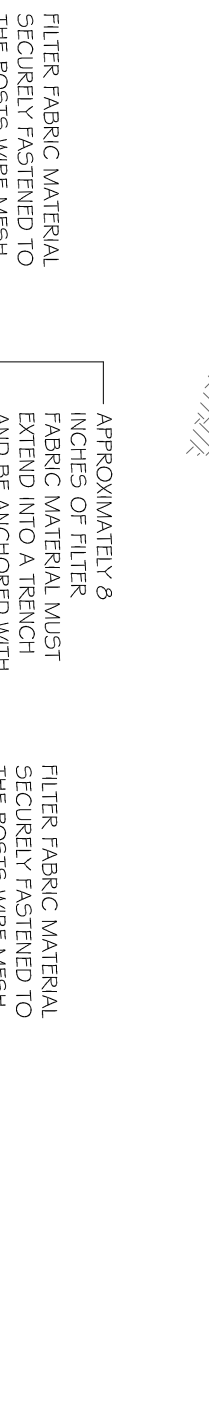
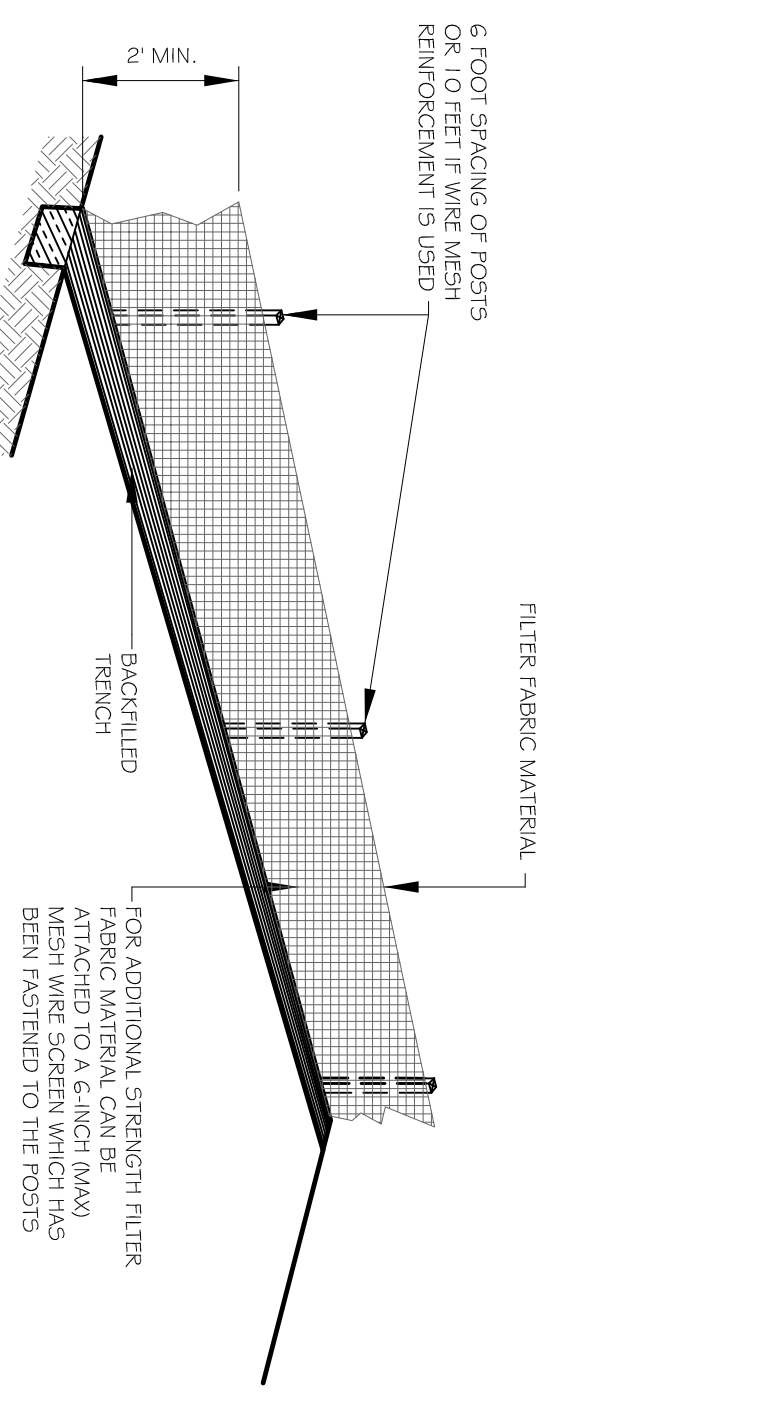
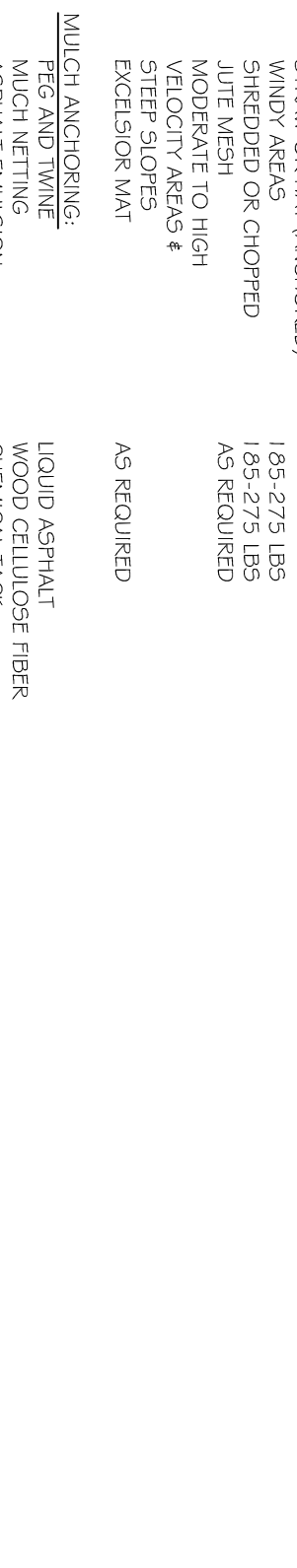
- 1. THE WATER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PERMANENT A ROAD GRADE BASE, 75% NATIVE VEGETATION COVER, OR REPAIR BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA COVERED OPEN IS ANY AREA NOT STABILIZED WITH PERMANENT VEGETATION, MULCHING, EROSION CONTROL MATS, STRAW OR GRASS BASE ON A ROAD, WATER BUCKLE AND BATHWORK SHALL BE COVERED SUCH THAT NO MORE THAN 1/4" OF THE SOIL IS EXPOSED WITHOUT STABILIZATION AT ANY AREA. ALL SOIL SHALL BE COVERED TO BE PROTECTED UNTIL THE REGIONAL GRASS IS INSTALLED IN ROOMY AREAS ON THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LAYED, SEEDD, AND MULCHED. HAY AND STRAW MULCH SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ABOVE MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION EXPOSED FROM THE SITE DEPARTMENT FROM THE SITE DEPARTMENT. CONTINUATION OF FARMWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE ABOVE STABILIZATION IS IN PLACE. ON THE REGS. BEING NOTED THE STABILIZATION IN ORDER TO MINIMIZE THROUGH EROSION CONTROL PROTECTION.
- 2. SOIL STOCKPILES STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT A RATE OF 150 LBS./1,000 S.F. (3 TONS PER ACRE) OR WITH 1.000 SQUARE FEET STOCKPILE SOIL SHALL BE COVERED WITH 100 FEET FROM ANY ROAD EXPOSED AREAS.
- 3. NATURAL RESOURCES PROTECTION ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% NATIVE VEGETATION COVER, SHALL BE MULCHED BY NOVEMBER 15. HAY OR STRAW MULCH SHALL BE A RATE OF 150 LBS./1,000 S.F. (3 TONS PER ACRE) OR WITH 1.000 SQUARE FEET STOCKPILE SOIL SHALL BE COVERED WITH 100 FEET FROM ANY ROAD EXPOSED AREAS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS./1,000 S.F. (2.3 TONS PER ACRE) AND ANCHORED WITH HAY BALS OR FIBER BALS OR EROSION CONTROL MATS OR FIBER BALS. FINAL GRADING WITH A MINIMUM SURFACE, THEN THE AREA MAY BE DOMINANT SEEDD AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DOMINANT SEEDING LIES THAN 75% NATIVE GRASS SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DOMINANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.
- 4. MULCHING ALL AREA SHALL BE COMPLETED TO BE TRIMMED UNTIL AREAS OF FUTURE ROAD OR OTHER FUTURE ROAD OR SEED HAVE BEEN LAYED, SEEDD AND MULCHED. HAY AND STRAW MULCH SHALL BE A RATE OF 150 LBS./1,000 S.F. (3 TONS PER ACRE) OR WITH 1.000 SQUARE FEET STOCKPILE SOIL SHALL BE COVERED WITH 100 FEET FROM ANY ROAD EXPOSED AREAS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS./1,000 S.F. (2.3 TONS PER ACRE) AND ANCHORED WITH HAY BALS OR FIBER BALS OR EROSION CONTROL MATS OR FIBER BALS. FINAL GRADING WITH A MINIMUM SURFACE, THEN THE AREA MAY BE DOMINANT SEEDD AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DOMINANT SEEDING LIES THAN 75% NATIVE GRASS SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DOMINANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.
- 5. MULCHING ON SLOPES AND DITCHES SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH HAY AND STRAW OR WITH TEMPORARY EROSION BARRIERS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS./1,000 S.F. (2.3 TONS PER ACRE) AND ANCHORED WITH HAY BALS OR FIBER BALS OR EROSION CONTROL MATS OR FIBER BALS. FINAL GRADING WITH A MINIMUM SURFACE, THEN THE AREA MAY BE DOMINANT SEEDD AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DOMINANT SEEDING LIES THAN 75% NATIVE GRASS SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DOMINANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.
- 6. SEEDING BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FROZEN AREAS SHALL BE GRADDED AND BENT LOCKED. FINAL GRADING WITH A MINIMUM SURFACE, THEN THE AREA MAY BE DOMINANT SEEDD AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DOMINANT SEEDING LIES THAN 75% NATIVE GRASS SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DOMINANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING.
- 7. TRENCH DRAINAGE AND TEMPORARY STRAIN IMPRESSION WATER FROM CONSTRUCTION, TRENCH DRAINAGE OR TEMPORARY STRAIN IMPRESSIONS WILL PASS PAST THROUGH A FILTER BAG OR SEDIMENT CONTROL STRUCTURE. E.G. THE HAY BALE LINED ROAD FLOOR TO DISCHARGE. THE DISCHARGE SITE SHALL BE SELECTED TO AVOID FLOODING, ICING, AND SEDIMENT DISCHARGED TO A PROTECTED RESOURCE. NO CASE SHALL THE FILTER BAG OR CONFINEMENT STRUCTURE BE LOCATED WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE.

STANDARDS FOR TIMELY STABILIZATION OF SITES DURING WINTER CONSTRUCTION:

- 1. STANDARD FOR THE SEED STABILIZATION OF DISTURBED AREAS AND GRASS RE-ESTABLISHMENT OF EXISTING VEGETATED AREAS. ALL SOIL STOCKPILES AND EXPOSED AREAS SHALL BE SEEDD BY OCTOBER 15. THE APPLICANT SHALL CONTACT THE ENGINEER FOR THE SEEDING AND MULCHING RATES TO BE USED. THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR FIVE FEET FROM THE ROAD AND WINTER. -- THE APPLICANT WILL USE THE SOIL STOCKPILES TO BE GRASSED, LINED WITH PROPERLY INSTALLED SOIL BY OCTOBER 15. PROPER INSTALLATION INCLUDES THE APPLICANT FINISHING THE SOIL WITH WIRE FINE, ROLLING THE SOIL TO GUARANTEE CONTACT BETWEEN SOIL STOCKPILES DURING FLOW CONDITIONS. -- THE APPLICANT WILL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS/DEPTH TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND TOW BEHIND WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REPAIR THE DITCH FROM TO PLACING THE STONE LINING TO PREVENT THE STONE LINING FROM REMOVED THE DITCHES CROSS-SECTIONAL AREA.
- 2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES AND STABILIZE STONE COVERED SLOPES BY NOVEMBER 15. THE APPLICANT WILL SEED AND MULCH ALL SLOPES TO BE REVEGETATED BY SEPTEMBER 15. THE REPAIRMENT WILL CONFORM TO ANY AREA HAVING A GRADE GREATER THAN 15% (10:1 TO 1 V) TO BE A SLOPE. IF THE APPLICANT WOULD STABILIZE ANY SLOPE AND REPAIR BY OCTOBER 1. THE APPLICANT WILL SEED THE CONTROL MATS DISTURBED SLOPE WITH WINTER MAT AT A SEEDING RATE OF 3 TONS PER 1,000 SQUARE FEET AND PERFORM EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE APPLICANT WILL MONITOR GROWTH OF THE PEE OVER THE 30 DAYS. IF THE PEE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOODWORTH COMPOST AND DISPERSED IN TRAIL OF THIS CONDITION ON WITH STONE RIPRAP AND MULCH. THE APPLICANT FINISHING THE SLOPE WITH WIRE FINE, ROLLING THE SOIL TO GUARANTEE CONTACT BETWEEN THE SOIL AND UNDERLYING SOIL, AND WAITING THE SOIL TO ROOMATE. WOODWORTH COMPOST MULCHING LAYER OF WOODWORTH COMPOST SHALL BE APPLIED TO THE SLOPE. THE APPLICANT SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS/DEPTH TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND TOW BEHIND WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REPAIR THE DITCH FROM TO PLACING THE STONE LINING TO PREVENT THE STONE LINING FROM REMOVED THE DITCHES CROSS-SECTIONAL AREA.
- 3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS BY SEPTEMBER 15. THE APPLICANT WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE APPLICANT WOULD STABILIZE THESE SOILS BY THIS DATE, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR THE FALL AND WINTER. STABILIZE THE SOIL WITH TEMPORARY VEGETATION. THE APPLICANT WILL SEED THE DISTURBED SOIL WITH WINTER MAT AT A SEEDING RATE OF 3 TONS PER 1,000 SQUARE FEET. LIGHTLY MULCH THE SEEDD SOIL WITH THE TOP SOIL OF THESE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15. THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM II OF THIS STANDARD. STABILIZE THE SOIL WITH SOIL DISTURBED SOIL WITH PROPERLY INSTALLED SOIL BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT FINISHING THE SOIL WITH WIRE FINE, ROLLING THE SOIL TO GUARANTEE CONTACT BETWEEN THE SOIL AND UNDERLYING SOIL, AND WAITING THE SOIL TO ROOMATE. WOODWORTH COMPOST MULCHING LAYER OF WOODWORTH COMPOST SHALL BE APPLIED TO THE SLOPE. THE APPLICANT SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS/DEPTH TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND TOW BEHIND WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REPAIR THE DITCH FROM TO PLACING THE STONE LINING TO PREVENT THE STONE LINING FROM REMOVED THE DITCHES CROSS-SECTIONAL AREA.

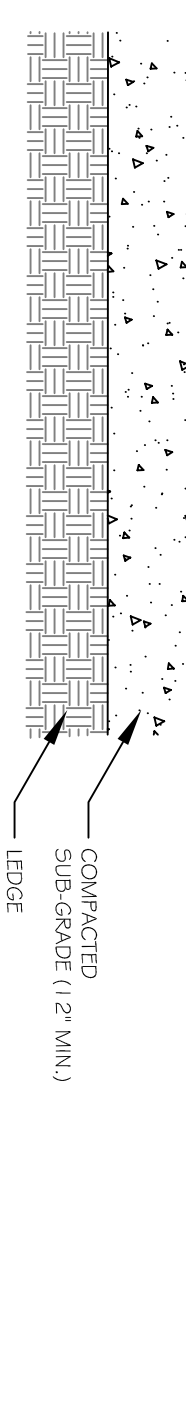
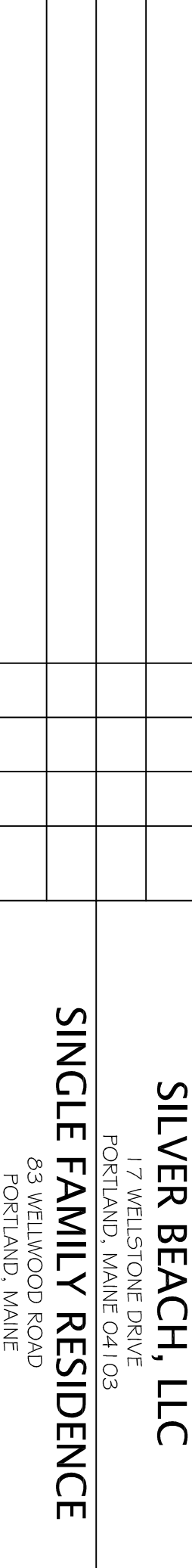
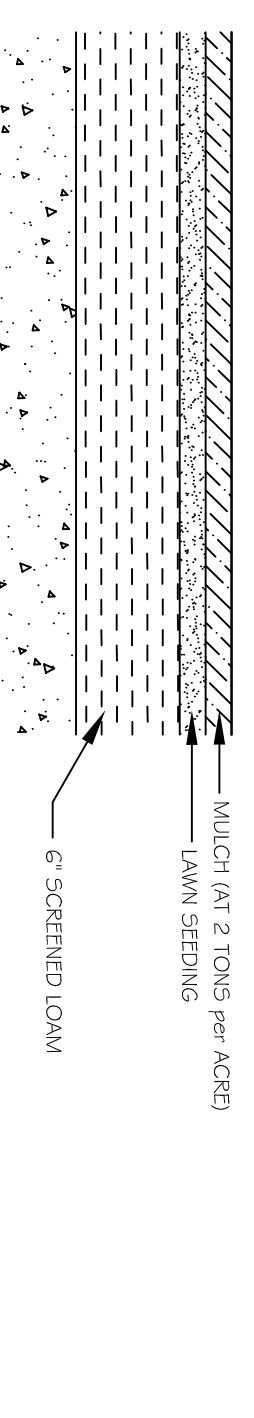
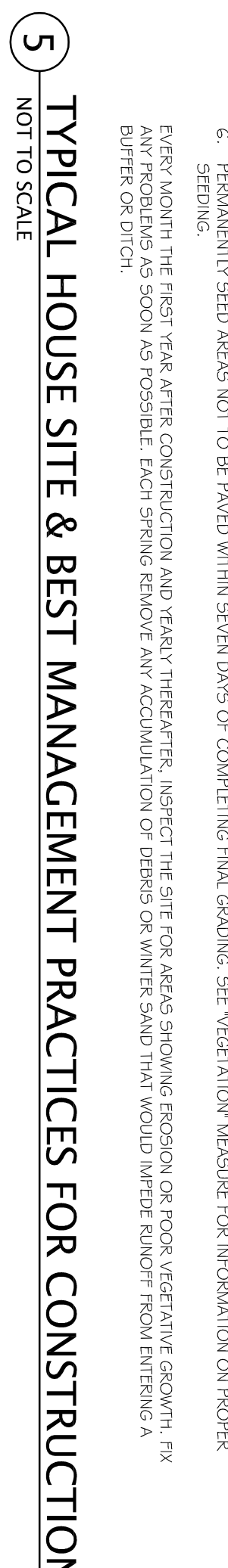
EROSION CONTROL SEEDING NOTES

- 1. ALL FINAL SEEDING SHALL BE COMPLETED WITHIN SEVEN (7) DAYS FOLLOWING FINAL GRADING.
 - 2. ALL CONSERVATION SEED MIX SHALL BE USED FOR ALL SEEDING.
 - 3. ALL AREAS SHALL BE MULCHED IMMEDIATELY AFTER SEEDING. THE CONTRACTOR SHALL MONITOR THE MULCH PERFORMANCE AND, IF MULCHING PROVES TO BE INEFFECTIVE, THEN NETTING AND MATTING SHALL BE USED IN ITS PLACE.
 - 4. SEEDING IS APPROVED BY THE ENGINEER BEFORE THOSE DATES. DOMINANT SEEDING SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE. IN THIS SEEDING, SEEDING AND MULCH SHALL BE COMPLETED ON THE SAME DAY IMMEDIATELY AFTER THE LOAM IS SPREAD. FINAL GRADING SHALL BE LIMITED TO AREAS WHICH CAN BE COMPLETED AND SEEDD THE SAME DAY.
 - 5. IF SEEDING IS APPROVED BY THE ENGINEER BEFORE THOSE DATES, DOMINANT SEEDING SHALL BE APPLIED AT A RATE OF 3 TONS PER ACRE. IN THIS SEEDING, SEEDING AND MULCH SHALL BE COMPLETED ON THE SAME DAY IMMEDIATELY AFTER THE LOAM IS SPREAD. FINAL GRADING SHALL BE LIMITED TO AREAS WHICH CAN BE COMPLETED AND SEEDD THE SAME DAY.
- TEMPORARY SEED MIXES AND RATES BETWEEN 9/15 AND 9/30:
- | | | |
|-----------------|----------------|-----------|
| ONION | 480.00 LB/ACRE | 401.19/14 |
| ANNUAL PERGRASS | 511.50 LB/ACRE | 511.50/14 |
| ANNUAL PERGRASS | 60.00 LB/ACRE | 511.50/14 |
| WINTER FESCUE | 112.00 LB/ACRE | 1001.98/1 |
- PERMANENT SEED MIXES AND RATES:
- | | |
|-------------------------|----------------|
| MULCH | 70-90 LBS |
| STRAW OR HAY (ANCHORED) | 1,000 LBS |
| WINTER PERGRASS | 480.00 LB/ACRE |
| ANNUAL PERGRASS | 511.50 LB/ACRE |
| WINTER FESCUE | 112.00 LB/ACRE |
- LAND AND MATERIALS:
- LANDING AND TERRAZER BARRIERS WILL BE BASED ON FIELD SOIL TESTING RESULTS TO BE PROVIDED BY A CERTIFIED LABORATORY. SUBMIT TEST RESULTS TO THE ENGINEER.



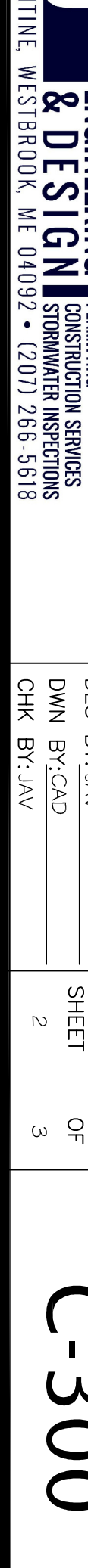
1 SEDIMENT BARRIER DETAIL - SILT FENCE OPTION
NOT TO SCALE

2 SEDIMENT BARRIER DETAIL - EROSION CONTROL MIX BERM OPTION
NOT TO SCALE



3 LOAM AND SEED DETAIL
NOT TO SCALE

4 STABILIZED CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



PROJECT NO. 14.111
DRAWING NO. C-300

SILVER BEACH, LLC
17 WILSTONE DRIVE
FORTLAND, MAINE 04103
83 WILWOOD ROAD
PORTLAND, MAINE

EROSION & SEDIMENTATION CONTROL NOTES & DETAILS

VAFADES ENGINEERING & DESIGN
25 EAST VALENTINE WESTBROOK, ME 04092 • (207) 268-5618