Metric

EROSION CONTROL NARRATIVE

6. INSPECTION & MONITORING NOTES

- CONTRACTOR TO CONDUCT INSPECTIONS AND MONITORING IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND PERMIT SPECIFIC REQUIREMENTS.
- THE CONTRACTOR SHALL KEEP TWO (2) TURBIDITY MONITORS ONSITE AND HAVE PERSONNEL ON HAND THAT ARE TRAINED IN THEIR OPERATION.

7. WINTER CONSTRUCTION REQUIREMENTS

IT IS EXPECTED THAT CONSTRUCTION ACTIVITIES WILL CONTINUE INTO THE WINTER CONSTRUCTION SEASON, DEPENDING ON ACTUAL FIELD AND WEATHER CONDITIONS. IF ACTIVITIES ARE ON-GOING BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
  - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
  - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- A MINIMUM 7.5-METER (25-FOOT) BUFFER SHALL BE MAINTAINED FROM PERIMETER CONTROLS.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED AHEAD OF FROZEN GROUND.
- MULCH TO BE APPLIED AT TWICE THE REGULAR RATE, AS SHOWN ON PLAN SHEET TS-05, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED AT THE END OF EACH WORK DAY, WITH THE FOLLOWING EXCEPTIONS:
  - IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME AREA WITHIN 24 HOURS.
  - DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, MUST BE STABILIZED AT THE END OF EACH WORK WEEK.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 25MM (1") THICKNESS.

8. CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME. A PROPOSED GENERAL SEQUENCE FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES IS AS FOLLOWS:

- ROADWAY-NORTH OF ROARING BRANCH
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEARING.
  4) BEGIN CUT & FILL OPERATIONS, LIMIT AREA OF DISTURBANCE TO < 1 ACRE.
  5) CONCURRENTLY INSTALL TEMPORARY AND PERMANENT STABILIZATION AND EPSC MEASURES AND AS WORK PROGRESSES SO THAT EMBANKMENT IS STABILIZED PRIOR TO ALLOWING RUNOFF TO DISCHARGE TO IT.
  6) INSTALL DRAIN PIPES AND STRUCTURES. CONNECT DRAINAGE SYSTEM INTO CONTRACT #52 DRAINAGE SYSTEM ONLY AFTER PERMANENT STABILIZATION OF CONTRACT #52 EARTH DISTURBANCE.
  7) PLACE SUBBASE MATERIAL FOR ROADWAY AND FINAL GRADE AND STABILIZE ALL EARTH DISTURBANCE AS WORK PROGRESSES.
  8) PAVE ROADWAY.

- ROADWAY-SOUTH OF ROARING BRANCH
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEARING.
  4) FORM, ROUGH GRADE AND STABILIZE SWALE 6B. CONSTRUCT TEMPORARY OUTLET CONTROL AND DRAINAGE PIPES FOR USE AS TEMPORARY SEDIMENT BASIN.
  5) CONSTRUCT AND STABILIZE VEGETATED TREATMENT SWALE 6A.
  6) BEGIN CUT/FILL OPERATIONS - DIVERT ALL DISTURBED AREAS EXCEPT WEST EMBANKMENT SLOPE OF RAMP A TO TEMPORARY SEDIMENT BASIN. LIMIT AREA OF DISTURBANCE TO < 3 ACRES.
  7) CONCURRENTLY INSTALL TEMPORARY STABILIZATION AND EPSC MEASURES AS WORK PROGRESSES.
  8) INSTALL DRAINAGE PIPES AND STRUCTURES.
  9) PLACE SUBBASE MATERIAL FOR ROADWAY.
  10) ONCE PERMANENT STABILIZATION MEASURES ARE IN PLACE AND VEGETATION HAS BEEN ESTABLISHED, DRAIN SEDIMENT BASIN, REMOVE ACCUMULATED SEDIMENTS AND RESHAPE SWALE 6B AS NECESSARY.
  11) DIVERT RUNOFF DISCHARGING TO SWALE 6B UNTIL ADEQUATE VEGETATIVE GROWTH HAS BEEN ESTABLISHED.

- ROARING BRANCH BRIDGES
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEARING.
  4) CONSTRUCT SEDIMENT TRAP TO SIZE DETERMINED BY DETAIL AND STABILIZE.
  5) DIVERT STREAM, CONSTRUCT TEMPORARY BRIDGES AND INSTALL STONE PADS IN ACCORDANCE WITH USCOE PERMIT CONDITIONS.
  6) CONSTRUCT BRIDGE ABUTMENTS. DEWATER EXCAVATIONS INTO SEDIMENT TRAP AS NECESSARY.
  7) REMOVE SEDIMENT TRAP INCLUDING ALL SEDIMENTS DISCHARGED INTO TRAP UPON COMPLETION OF DEWATERING.
  8) BACKFILL AROUND ABUTMENTS.
  9) CONSTRUCT BRIDGE.
  10) PLACE SUBBASE MATERIAL FOR ROADWAY APPROACHES.
  11) PAVE ROADWAY AND SHOULDERS WITH BASE COURSE OF PAVEMENT AS SOON AS SUFFICIENT LENGTH OF ROADWAY IS CONSTRUCTED.
  12) FINAL GRADE SIDE SLOPES.
  13) APPLY PERMANENT STABILIZATION MEASURES TO ALL REMAINING EXPOSED SOIL AREAS.

- BALD MOUNTAIN TRAIL EMBANKMENT
  1) ESTABLISH PERIMETER CONTROLS AND MARK BOUNDARIES FOR SENSITIVE RESOURCE AREAS, SUCH AS WETLANDS AND RIPARIAN BUFFER ZONES.
  2) INSTALL SEDIMENT CONTROL MEASURES.
  3) CLEARING.
  4) BEGIN FILL OPERATIONS, SEE NOTE 5 ON ECD-01 FOR RESTRICTIONS ON EXTENT OF DISTURBANCE.
  5) FINISH GRADE EMBANKMENT AND PERMANENTLY STABILIZE ALL REMAINING EXPOSED SOILS IMMEDIATELY. NO MORE THAN 4' HEIGHT OF EMBANKMENT SHALL BE EXPOSED AT ANY ONE TIME.

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VERMONT AGENCY OF TRANSPORTATION

Stantec

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