

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. SEE IDOT STANDARD 280001-06 FOR TEMPORARY EROSION CONTROL SYSTEMS.
2. THE USE OF HAY OR STRAW BALES SHALL NOT BE PERMITTED IN THE IMPLEMENTATION OF TEMPORARY DITCH CHECKS.
3. TEMPORARY DITCH CHECKS WILL BE INSTALLED AFTER GRADING IN THE CHANNEL AND WILL BE REMOVED ONCE THE EROSION CONTROL BLANKET IS INSTALLED.
4. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL", AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL."
5. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF THE MINIMUM REQUIREMENTS. DEVIATIONS FROM THIS PLAN ARE EXPECTED AND ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, THE DESIGNATED APPROVED EROSION CONTROL INSPECTOR, OR THE GOVERNING AGENCY.
6. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
7. ALL TEMPORARY SEDIMENT CONTROLS AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR.
8. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
10. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT AND THE STORM WATER POLLUTION PREVENTION PLAN.
11. ALL DISTURBED AREAS SHALL BE SEEDED AS SHOWN ON THE LANDSCAPING PLANS AND/OR THE EROSION AND SEDIMENT CONTROL PLANS WITHIN SEVEN (7) DAYS AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED.
12. AREAS THAT HAVE BEEN STRIPPED AND WILL NOT RECEIVE PERMANENT LANDSCAPING BEFORE THE END OF THE FALL SEEDING RESTRICTION SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND TRIPAM POLYMER.
13. ALL AREAS SHALL BE SEEDED IMMEDIATELY AND COVERED WITH TRIPAM POLYMER AND EROSION CONTROL BLANKET (SPECIAL). THE EROSION CONTROL BLANKET SHALL BE TYPE B (KNITTED STRAW BLANKET). ALL AREAS THAT DO NOT HAVE A COVER OF VEGETATION AND WHERE NO FURTHER WORK IS TO OCCUR FOR ONE (1) WEEK OR MORE SHALL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING AND COVERED WITH TRIPAM POLYMER AND EROSION CONTROL BLANKET (SPECIAL) WITHIN SEVEN (7) CALENDAR DAYS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. THE EROSION CONTROL BLANKET SHALL BE TYPE B (KNITTED STRAW BLANKET).
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 02-60.
15. AT THE END OF EACH WORK DAY, THE SITE SHALL BE GRADED TO MAINTAIN THE DRAINAGE PATTERN ESTABLISHED IN THE EROSION CONTROL PLAN. THIS WORK SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL ITEMS.
16. PERIMETER EROSION BARRIER SHALL BE PLACED ONE (1) FOOT INSIDE THE RIGHT-OF-WAY LINE AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
17. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES EXCEPT SEDIMENTATION BASINS SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
18. SEDIMENT AND MUD DEPOSITS SHALL BE REMOVED FROM THE ROADWAY IMMEDIATELY BY SHOVELING AND/OR SWEEPING. THIS INCLUDES THE QUARRY ACCESS ROAD AT THE NORTH END OF THE PROJECT, BETWEEN THE PROPOSED R.O.W AND IL RTE 31. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE EROSION CONTROL ITEMS.
19. ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED IMMEDIATELY. THIS INCLUDES THE QUARRY ACCESS ROAD AT THE NORTH END OF THE PROJECT, BETWEEN THE PROPOSED R.O.W AND IL RTE 31. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE EROSION CONTROL ITEMS.
20. ARTICULATED BLOCK REVETMENT MATS SHALL BE USED AS SHOWN ON THE PLANS TO PREVENT SCOURING AND DOWNSTREAM EROSION.

21. EROSION CONTROL MEASURES AROUND PROPOSED INLETS AND CULVERTS SHALL BE CONSTRUCTED AND MAINTAINED IMMEDIATELY AFTER THE DRAINAGE ITEMS ARE CONSTRUCTED.

22. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.

23. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO THE TEMPORARY SEDIMENT BASINS OR DEWATERING BAGS AS SHOWN ON THE PLANS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED. DEWATERING BAGS SHALL BE PLACED ON STABLE GROUND AND SHALL BE SIZED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATION.

24. ALL COMPLETED SLOPES SHALL BE SEEDED AND BLANKETED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

25. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING AND EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET.

26. SEDIMENTATION BASINS WILL BE CONSTRUCTED DURING DITCH GRADING.

SEDIMENTATION BASINS SHALL REMAIN IN PLACE AND SHALL BE CLEANED AT THE END OF THE CONTRACT AFTER THE SITE IS STABILIZED. THIS WORK SHALL BE INCLUDED IN THE COST OF "MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS".

27. SLOPE DRAINS SHALL BE CLEANED AFTER THE SITE IS STABILIZED. THIS WORK SHALL BE PAID FOR AS "STORM SEWER TO BE CLEANED."

28. THE ENGINEER AND THE CONTRACTOR SHALL WALK THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION TO DETERMINE WHERE EROSION CONTROL MEASURES ARE NECESSARY IN ADDITION TO THOSE SHOWN IN THE PLANS.

29. QUANTITY HAS BEEN INCLUDED FOR STORM SEWER CLEANING OF THE EXISTING STORM SEWER ALONG ALGONQUIN ROAD WITHIN THE EAST AND WEST LIMITS OF THE PROJECT. THE EXISTING STORM SEWERS SHALL BE CLEANED AT THE START OF CONSTRUCTION. THIS WORK SHALL BE PAID FOR AS "STORM SEWERS TO BE CLEANED".

CONSTRUCTION SEQUENCING

1. INSTALL CHAIN LINK FENCE ALONG ALGONQUIN ROAD.
2. INSTALL SEDIMENT CONTROL DEVICES
 - A. PERIMETER EROSION BARRIER
 - B. INLET FILTERS
 - C. STABILIZED CONSTRUCTION ENTRANCES
 - D. BEGIN EROSION CONTROL MAINTENANCE AND INSPECTIONS
 - E. CLEAN EXISTING STORM SEWER ALONG ALGONQUIN ROAD
3. CLEARING AND GRUBBING
4. MASS EARTHWORK AND SEWER INSTALLATION
 - A. GRADE AND OVER EXCAVATE DETENTION BASIN
 - B. INSTALL DEWATERING AREAS
 - C. INSTALL SEDIMENTATION BASINS
 - D. INSTALL STORM SEWER PIPES AND STRUCTURES
 - E. INLET AND PIPE PROTECTION
 - F. TOPSOIL PLACEMENT
 - G. TEMPORARY EROSION CONTROL SEEDING AND TRIPAM POLYMER
 - H. TEMPORARY DITCH CHECKS
5. VEGETATIVE STABILIZATION
 - A. PERMANENT SEEDING AND TRIPAM POLYMER
 - B. EROSION CONTROL BLANKET (SPECIAL)
6. REMOVE SEDIMENT CONTROL DEVICES WHEN 70% STABILIZED

MAINTENANCE/INSPECTION PROCEDURES

THE FOLLOWING ARE THE INSPECTION AND MAINTENANCE PROCEDURES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL:

1. ALL CONTROL MEASURES (EXCEPT "STABILIZED CONSTRUCTION ENTRANCE") WILL BE INSPECTED BY QUALIFIED PERSONNEL AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER (OR EQUIVALENT SNOW MELT). STABILIZED CONSTRUCTION ENTRANCES WILL BE INSPECTED DAILY.
2. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. BUILT-UP SEDIMENT WILL BE REMOVED FROM ALL SEDIMENT CONTROL DEVICES WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE FENCE. THIS SEDIMENT SHALL BE RESPREAD AND VEGETATED.
4. PERIMETER EROSION BARRIER WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
5. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION AND SHALL BE KEPT ONSITE.
6. THE SITE SUPERINTENDANT WILL SELECT THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
7. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY OPERATIONS, IN ALL INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON-SITE IN GOOD WORKING ORDER.
8. 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 IDENTIFIED IN THE PLAN 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 OFFSITE SEDIMENT TRACKING.
9. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITH SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
10. 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 PREVENTION PLAN, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF INSPECTION.
11. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN FIVE DAYS AN INCIDENCE OF NON-COMPLIANCE (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NON-COMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NON-COMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NON-COMPLIANCE.

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