

STORM WATER POLLUTION PREVENTION PLAN

GENERAL PROVISIONS

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS IDENTIFIED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS OUTLINED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS STIPULATED BY THE ENGINEER AND AS SHOWN IN IDOT STANDARD 280001 WHICH SUPPLEMENTS THIS PLAN. THE TEMPORARY EROSION CONTROL PROVISIONS OUTLINED IN SECTION 280 OF THE IDOT STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENT THIS PLAN.

DESCRIPTION OF SITE AND PLANNED CONSTRUCTION ACTIVITIES

1. THE PROJECT IS LOCATED IN THE COOK COUNTY, ILLINOIS. THE PROJECT SITE ENCOMPASSES BLUFF AVENUE FROM 47th STREET TO BURLINGTON AVENUE.
2. THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES WILL ENCOMPASS THE ENTIRE PROJECT SITE.
3. THE PROJECT INVOLVES WATER MAIN REPLACEMENT, SEWER REPLACEMENT, DRAINAGE STRUCTURE REPAIR AND REPLACEMENT, LANDSCAPE RESTORATION, ROADWAY REMOVAL AND REPLACEMENT AND OTHER MISCELLANEOUS RELATED IMPROVEMENTS.

SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES

THE FOLLOWING DESCRIBES THE PROJECTED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS WITHIN THE PROJECT AREA.

1. INSTALLATION OF TEMPORARY EROSION CONTROL MEASURES REQUIRED TO LIMIT SOIL MIGRATION DURING SITE CLEARING, GRADING, FILLING, AND SUBSEQUENT DEVELOPMENT ACTIVITIES. MEASURES MAY INCLUDE PERIMETER EROSION CONTROL BARRIER, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, RIP-RAP, EROSION CONTROL BLANKETS, TEMPORARY SEEDING, AND OTHER SIMILAR MEASURES. THE MEASURES ARE TO BE ADJUSTED IN KEEPING WITH SITE WORK PROGRESS.
2. WATER MAIN REPLACEMENT, SEWER REPLACEMENT AND DRAINAGE STRUCTURE REPAIR AND OR REPLACEMENT.
3. CURB AND GUTTER REMOVAL.
4. EXISTING PAVEMENT REMOVAL.
5. INSTALLATION OF REPLACEMENT CURB AND GUTTER.
6. INSTALLATION OF REPLACEMENT PAVEMENT.
7. FINISHED GRADING AND LANDSCAPE RESTORATION.
8. MAINTENANCE, REMOVAL, AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROL PRACTICES

THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS HAVE BEEN PLANNED TO ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE FEASIBLE, AND DISTURBED PORTIONS OF THE SITE ARE STABILIZED. STABILIZATION PRACTICES INCLUDE TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF NATURAL VEGETATION, AND OTHER APPROPRIATE MEASURES AS IDENTIFIED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

1. AREAS OF EXISTING VEGETATION, WOOD AND GRASSLANDS, OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVATION AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
2. DEAD, DISEASED, UNSUITABLE, OR CONFLICTING VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
3. AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
4. BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
5. IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODIBLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN (7) DAYS.
6. AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS ON ADJACENT LANDOWNERS, TEMPORARY DITCH CHECKS SHALL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
7. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS INDICATED ON THE PLANS SHALL BE PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL NOT USE THESE AREAS FOR STAGING, PARKING OF VEHICLES OF CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS OR OTHER CONSTRUCTION RELATED ACTIVITIES EXCEPT AS DESCRIBED ON THE PLANS AND INDICATED BY THE ENGINEER.
8. WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION SHALL REMAIN UNDISTURBED UNTIL THE STAGE OF CONSTRUCTION IS INITIATED TO AVOID UNNECESSARY SOIL EROSION.
9. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN (14) DAYS.
10. AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS. THE ERODIBLE EXPOSED EARTH SURFACES SHALL BE TEMPORARILY SEEDED ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF EROSION THAT WILL OCCUR WITHIN THE PROJECT LIMITS. THE ROADSIDE DITCHES WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED OR CONSTRUCTED AS REQUIRED TO LIMIT EROSION. TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS UNTIL EROSION CONTROL MEASURES ARE IN PLACE.
11. CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
12. THE CONTRACTOR SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2-INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE WORK SITE CONSTRUCTION MANAGER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
13. SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS IDENTIFIED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EACH EXCAVATION FOR EROSION CONTROL.
14. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED WHERE INDICATED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING.
15. TEMPORARY DITCH CHECKS SHALL BE LOCATED AT EVERY 1 FOOT FALL OR RISE IN DITCH GRADE OR AS STIPULATED ON THE PLAN.
16. WHERE REQUIRED THE TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS PER ACRE OF AREA.
17. STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE.
18. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS, AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION FOR EROSION CONTROL.
19. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THE APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
20. WATER PUMPED FROM EXCAVATIONS SHALL BE DIRECTED INTO THE SEDIMENT BASIN. THE SEDIMENT BASIN SHALL BE MAINTAINED AT A DEPTH BETWEEN 2 AND 3 FEET AND CLEARED OF SEDIMENT AS REQUIRED. SEDIMENT SHALL BE DISPOSED OF IN A MANNER NOT TO INCREASE SOIL MIGRATION.

OTHER REPORTS, STUDIES, PLANS, SPECIFICATIONS WHICH ARE REFERENCED DOCUMENTS OF THE STORM WATER POLLUTION PREVENTION PLAN

1. INFORMATION CONCERNING THE SOILS CHARACTER AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND GEO-TECHNICAL SURVEYS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT SPECIFICATIONS, SPECIAL PROVISIONS, AND DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES, WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.
3. ILLINOIS URBAN MANUAL FOR SOIL EROSION CONTROL GUIDANCE AND CONTROL MEASURES.
4. IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR SOIL EROSION CONTROL MATERIALS AND INSTALLATION GUIDANCE

MAINTENANCE AFTER CONSTRUCTION

1. THE CONSTRUCTION WILL BE CONSIDERED TO BE COMPLETE AFTER ACCEPTANCE BY THE MUNICIPAL AGENCY WITH JURISDICTION OVER THE IMPROVEMENTS. MAINTENANCE OF EROSION MEASURES AS WELL AS THE SITE IMPROVEMENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE DATE OF ACCEPTANCE.
2. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED SEEDED OR SODDED AREAS HAVE BEEN ESTABLISHED.
3. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED SURFACES RESTORED.

CERTIFICATION

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10 ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSON DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

Mike Bojovic
MIKE BOJOVIC, ACTING DIRECTOR 7/25/08
DATE

NOTE:

1. SEE DETAIL PLAN SHEETS FOR EROSION CONTROL DETAILS.
2. REFER TO PLAN INDEX FOR LOCATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
STAGE 1**

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: NTS DRAWN BY H&A
DATE 07/18/2008 CHECKED BY PFH

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