

Stearns Road Stormwater Pollution Prevention Plan

Project Name & Location: Stearns Road Stage 2
Route 31 & McLean - Kane County, Illinois

Owner Name & Address: State of Illinois
County of Kane
Division of Transportation

Project Length: IL Rt. 31 = 1,000 ft.
McLean Boulevard = 3,800 ft.
Total Length = 4,800 ft.

Name of Receiving Waters: Unnamed tributary to Fox River

Description of Project: This project will consist of constructing McLean Boulevard from Route 31 to just north of Lancaster as well as modifications to Route 31. Soil disturbing activities will include: clearing and grubbing, perimeter, and other erosion and sediment controls, grading, storm sewer culverts, utilities, and construction of new pavement.

Sequence of Major Activities:

The order of activities in each Stage will be as follows:

1. Install siltation fence.
2. Clear and grub in preparation for grading.
3. Complete mass grading.
4. Install rock ditch checks, sediment basin and erosion control blanket.
5. Install storm sewer culverts, drainage structures, sanitary, utilities, pavement, road improvements, walls, etc.
6. Resume grading. Finally grade entire site.
7. Continue to install, remove silt fence and ditch checks as needed.
8. Seed and mulch disturbed areas.
9. Remove all erosion control devices once construction activity is complete and the site is stabilized.

CONTROLS
Erosion and Sediment Controls

Temporary Stabilization - Disturbed portions of the site where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. After seeding, each area shall be mulched. Areas of the site which are to be paved will be temporarily stabilized by applying sub-base until bituminous surface treatment can be applied.

Permanent Stabilization - Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed no later than 14 days after the last construction activity. After seeding, each area shall be mulched.

Structural Practices

Rock Check Dams - Shall be constructed at intervals as shown on the plan. Rock checks are to be installed per detail IL-605R and IL-605CA to prevent excessive velocities and sediment control in the ditches.

Perimeter Erosion Barrier/Siltation Fence - Shall be installed per locations shown on the plans. Fence should be re-erected and moved as construction progresses so as to prevent sediment transport off site. Fencing shall be trenched into the ground per detail IL-620 & IL-620W so that no runoff and sediment may flow underneath it. Strawbales are not to be used as a perimeter erosion control measure.

Inlet and Pipe Protection - Shall be installed per locations shown on the plans. Inlet protection shall be fabric drop protection. Straw bales shall not be used. Inlet protection shall be installed per IL-560.

Erosion Control Blanket - Biodegradable erosion control blanket shall be installed at locations shown on the plan. In areas which a "temporary" erosion control blanket is specified, the blanket shall be North American Green S150BN biodegradable erosion control blanket or approved equal in accordance with performance specifications. In areas which a "permanent" erosion control blanket is specified, the blanket shall be North American Green P550 permanent turf reinforcement mat or approved equal in accordance with performance specifications. All erosion control blankets shall be laid approximately 3.0 feet high from the channel bottom. Blanket shall be installed per IL-530 and manufacturers recommendations.

Rip-Rap - Proposed rip-rap shall be installed at locations shown on the plan. All rip-rap shall adhere to I.D.O.T. gradations for the specified stone (designated RR) and shall be installed per I.D.O.T. Standards and Specifications. Filter fabric, such as Mirafi 180N, Mirafi 600x, or equivalent shall be placed under the rip-rap. The rip-rap thickness should not be less than the equivalent spherical diameter (D100max) or less than 1.5 times the equivalent spherical diameter (D50max), whichever results in a greater thickness.

Temporary Sediment Basin - Temporary basins shall be placed in accordance with I.D.O.T. Standards and Specifications and the details provided on the plans. Basins shall be carefully maintained and inspected throughout the construction activity.

Storm Water Management

Storm water drainage will be provided by roadside ditches in conjunction with curbs and gutters as shown on the plans. Proposed culverts and junction boxes are shown on the plans. Erosion measures shall be followed as stated in these areas. Inlet barriers shall be added at each structure per detail 280001-04 (I.D.O.T.) to prevent transport of sediment within the storm sewer system. Slopes will not exceed 2:1 during the grading process. The forested areas will remain untouched, except where specified to be removed.

OTHER CONTROLS

Offsite Vehicle Tracking - A stabilized construction entrance has not been provided. Construction traffic shall enter and exit from Route 31 or adjacent intersecting streets to McLean Road. All trucks shall be examined by the drivers and washed down on adjacent gravel within the construction site if necessary. Paved streets adjacent to the site entrance will be swept daily to remove any excess mud, dirt or rock tracked from the site. Dump trucks hauling material from the construction site will be covered with a tarpaulin.

TIMING OF CONTROLS/MEASURES

As indicated in the Sequence of Major Activities, portions of the silt fence and stabilized construction entrance will be installed prior to clearing and grading portions of the site. Areas where construction activity temporarily ceases for more than 21 days will be stabilized with a temporary seed and mulch within 14 days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch. After the entire site is stabilized, the rock ditch checks and silt fence shall be removed. The erosion control blanket is permanent and shall be left in place.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, ILLINOIS, AND LOCAL REGULATIONS

The Storm Water Pollution Prevention Plan (SWPPP) reflects Kane County requirements for storm water management and erosion and sediment control. To ensure compliance, this plan was prepared in accordance with NPDES storm water regulations. Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed according to minimum standards and specifications in the Illinois Urban Manual revised February 2002.

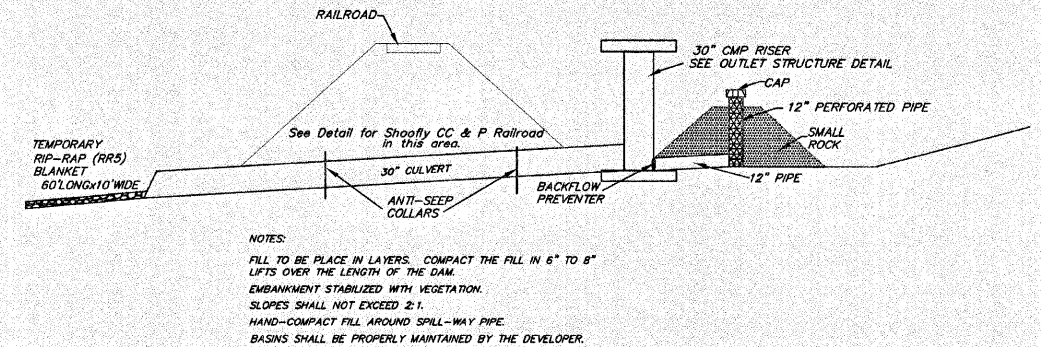
MAINTENANCE & INSPECTION PROCEDURES

These are the inspection and maintenance practices that will be used to maintain erosion and sediment controls:

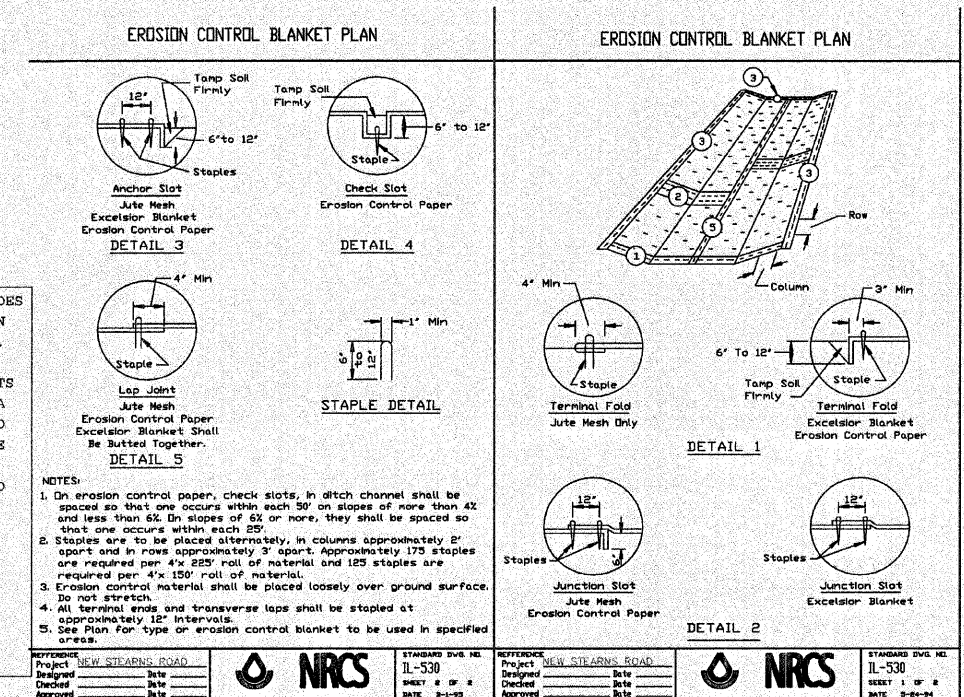
- A copy of the approved Erosion and Sediment Control Plan shall be maintained on the site at all times.
- Less than one half of the site will be denuded at a time.
- All control measures will be inspected at least once each week and following and storm event of 1/2 inches or greater.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of the report.
- Built up sediment will be removed from the silt fence when it has reached one-third the height of the fence.
- Silt fence 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.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after every inspection. A copy of the report shall be kept on file.
- The site superintendent will be responsible for inspections, maintenance, and repair activities, and filling out the inspection report.

GENERAL NOTES:

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
2. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
3. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
4. DURING DE-WATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
7. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUBCONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY ILLINOIS EPA.
8. PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE SEDIMENT BASIN AREAS. ONCE CONTRIBUTING AREAS HAVE BEEN STABILIZED, THE BASIN SHALL BE CLEANED OUT, RESTORED, AND FINAL PROPOSED GRADES SHALL BE ACHIEVED.
9. COMPLETED SLOPES (SECTIONS OF ROAD EMBANKMENT) SHALL BE SEED AND MULCHED 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 SEED AT ONE TIME.
10. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE DURING CONSTRUCTION.



TEMPORARY SEDIMENT BASIN DETAIL AT RR SHOOFLY
N.T.S.



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 PERSONS 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.

[Signature]
SIGNATURE: *[Name]*
PROFESSIONAL TITLE: *[Title]*
DATE: 5/17/07
COMPANY: SCS Engineering, Inc.

EROSION CONTROL PLAN - DETAILS

FILE NAME = 1108101113SHEET1ECP.DGN	USER NAME = MTOMASDD	DESIGNED -	DRAWN -	CHECKED -	DATE - 06/27/08	KANE COUNTY DIVISION OF TRANSPORTATION			NEW STEARNS ROAD - STAGE 2 EROSION CONTROL PLAN			F.A.I. SHEETS NO. 361	SECTION 06-00214-10-BR	COUNTY KANE	TOTAL SHEETS 219	SHEET NO. 30	CONTRACT NO. 63073
PLOT SCALE = 1/100						SCALE: 1"=100'			SHEET NO. OF SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					