

GENERAL

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10-B376 issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

The following plan has been established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The contractor shall comply with all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items shall be placed as shown in this plan. Other items shall be placed as directed by the Engineer based on situations resulting from the type of activities, time of year and weather conditions.

The Contractor shall place permanent erosion control and seeding within a reasonable time, thereby reducing areas open to the possibility of erosion. The Engineer will determine if temporary erosion control systems shown in the plans can be deleted, the size of proposed ditch checks, proper methods of installation, and if additional temporary erosion controls shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer.

SITE DESCRIPTION

Description of Construction Activities

1. Reconstruction of North DuQuoin Street from McFall Street to the Interstate 57 Overpass Bridge to include aggregate sub-base, concrete pavement with curb and gutter, driveways and sidewalks. Storm sewers shall be constructed to replace the existing drainage facilities.

Intended Sequence of Major Construction Activities

1. Mobilization and Construction Staking
2. Install Silt Fences and Temporary Erosion Control Measures
3. Relocate Underground Utilities
4. Tree Removal and Ditch Construction
5. Install Pipe Culverts and Storm Sewers
6. Excavation / Embankment to Designed Sub-grade
7. Subgrade Compaction
8. Aggregate Base Course Placement and Compaction
9. P.C.C. Pavement with Curb and Gutter
10. Seed and Mulch within 14 days after Final Grading
11. Remove Temporary Erosion and Sediment Control Items
12. Final Clean-up

Area of Construction Site

1. The total area of the construction site is estimated to be 6.20 acres in which 4.40 acres will be disturbed by excavation, grading or other activities.

Referenced Documents

1. Soil Boring Logs
2. Soil Survey Map of Franklin County
3. U.S.G.S. Maps

Receiving Streams

1. Unnamed Stream; tributary to Fallet Branch; tributary to the Big Muddy River
2. Unnamed Stream; tributary to Sugar Creek; tributary to the Big Muddy River

EROSION CONTROLS AND SEDIMENT CONTROLS

Stabilization Practices

1. Temporary Stabilization
 - (a) Areas of existing vegetation outside the proposed construction slope limits shall be identified for preservation and shall be protected from construction or other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available to all locations where water drains away from the project, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and as directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded where no construction activities are expected within seven days as stated in the special provision "Temporary Seeding".
 - (e) Top soil stockpiles, earth stockpiles and disturbed portions of the site where construction activity temporarily ceases for at least twenty-one days shall be temporarily seeded no later than fourteen days from the last construction activity in that area as stated in the special provision "Temporary Seeding".
 - (f) Temporary erosion control items shall be removed as directed by the Engineer after the item is no longer needed or it is no longer functioning.

2. Permanent Stabilization

- (a) Excavated areas, embankments and all other disturbed portions of the site where construction activity permanently ceases shall be stabilized with permanent seed no later than fourteen days after the last construction activity. This work shall be done in accordance with Section 250 - Seeding, of the Standard Specifications.
- (b) All seeded areas shall be inspected at least one time each seven days and within 24 hours after a rainfall of 0.5" or greater.
- (c) The project shall be inspected by the Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.

Structural Practices

1. Perimeter barriers, ditch checks and inlet/pipe protection shall be constructed at all locations as indicated in the plans and at any additional location as directed by the Engineer.
2. Temporary rip-rap ditch checks will be allowed to remain in place where approved by the Engineer.
3. Sediment collected during construction by the various temporary erosion control systems shall be disposed of on a regular basis as directed by the Engineer.

Storm Water Management

1. Storm water management will be provided by drainage ditches, swales, storm sewers, and catch basins for the site. The areas will be graded to drain and have permanent seeding.

OTHER CONTROLS

Waste Disposal

1. Waste Materials - All waste materials will be collected and stored in containers with lids and will be disposed of by a licensed solid waste company. The containers will meet all state and local solid waste management regulations. All trash and construction debris from the site will be deposited in the containers. The containers will be emptied and the trash hauled offsite on an as needed basis or as directed by the Engineer. No construction waste materials will be buried onsite. All personnel will be instructed regarding the correct procedure for waste disposal and a notice stating these practices will be posted in the Contractor's office trailer.
2. Hazardous Materials - All hazardous waste materials shall be disposed of in the manner specified by state or local regulations or by the manufacturer's Material Safety Data Sheet (MSDS). Site personnel will be instructed regarding the correct procedure for hazardous waste disposal.
3. Sanitary Waste - All sanitary waste will be collected from any portable units a minimum of once per week by a licensed sanitary waste management contractor as required by local regulations.

Offsite Vehicle Tracking

1. If deemed necessary, a vehicle wash off area with yard hydrants will be provided by the contractor to help reduce vehicle tracking of sediments. The contractor shall provide all measures as required by IDOT for accessing public roads by construction vehicles.

TIMING OF CONTROLS/MEASURES

As indicated in the sequence of major activities, the silt fencing and other temporary erosion controls will be constructed prior to clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than twenty-one days will be stabilized with a temporary seed and mulch within fourteen days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch as per the specifications. All accumulated sediment will be removed and the area will be monitored and maintained until stabilized.

MAINTENANCE/INSPECTION PROCEDURES

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

1. All control measures shall be inspected by the Engineer on a bi-weekly basis and following any storm event of 0.5" or greater.
2. All measures will be maintained in good working order. If a repair is necessary, it will be initiated within 24 hours of the report.
3. Built up sediment will be removed from silt fence when it has reached one-quarter the height of the fence.
4. Silt fence will be inspected for depth of sediment, tears, whether fabric is securely attached to posts, and whether posts are firmly embedded in the ground.
5. Sediment traps and ditch checks will be inspected for depth of sediment and secured placement. Accumulated sediment will be removed when it reaches the maximum allowed sediment level or at the direction of the Engineer.
6. All ditches will be inspected and any breaches promptly repaired.
7. Temporary and permanent seeding will be inspected for bare spots, washouts, rills, cuts and healthy growth.
8. The contractor shall have two individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report. The Engineer shall verify all inspections, maintenance and repair activities.

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 9452	08-00059-00-RP	FRANKLIN	39	4
NORTH DUQUOIN ST.		CONTRACT NO. 99396		

9. A maintenance inspection report in accordance with Part IV.D.4.b of the general permit shall be made and kept on file by the Contractor as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with Part VI.G of the General Permit.

10. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, The Engineer shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

INVENTORY FOR POLLUTION PREVENTION PLAN

The materials or substances listed below are expected to be present onsite during construction:

- | | |
|----------------|-----------------------|
| 1. Concrete | 5. Cleaning Solvents |
| 2. Detergents | 6. Wood |
| 3. Fertilizers | 7. Lime |
| 4. Paints | 8. Petroleum Products |

SPILL PREVENTION

Material Management Practices

1. Good Housekeeping Practices - The following will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:
 - (a) Effort to store only enough product to do the job.
 - (b) Materials stored in a neat, orderly manner in their appropriate containers.
 - (c) Products kept in original containers with original manufacturers labels.
 - (d) Materials not mixed with one another unless recommended by the manufacturer.
 - (e) All of a product will be used before disposing of the container.
 - (f) Manufacturer's recommendations for proper use and disposal will be followed.
2. Hazardous Products - These practices are used to reduce the risks associated with hazardous materials:
 - (a) Products will be kept in original containers unless they are not resealable.
 - (b) Original containers and Material Safety Data Sheets (MSDS's) will be retained.
 - (c) If surplus product must be disposed of, manufacturer's or local and state recommended methods for proper disposal will be followed.

Product Specific Practices

The following practices will be followed onsite:


1. Petroleum Products - All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled.

Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution runoff in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
2. Fertilizers - All fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water runoff. Storage will be in a covered area. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
3. Paints - All containers will be tightly sealed and stored when not required for use. Excess paint will not be dumped on the ground or discharged into the storm sewer system, but will be properly disposed of according to the manufacturer's instructions or applicable state or local regulations.
4. Concrete Trucks - Concrete trucks will not be allowed to wash out or discharge surplus concrete or drum wash water onsite unless in an approved holding basin.

STORM WATER POLLUTION PREVENTION PLAN 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 persons directly responsible for gathering the information, the information 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.


Mayor, City of Benton

12-11-09
Date