I. Site Description:

A. The following is a description of the project location:

Entire Village of Oreana, Illinois plus a corridor along the northeast side of Rt 48 from Oreana to Mound Road in Decatur

B. The following is a description of the construction activity which is the subject of this plan:

Construction of Sanitary Sewers, two pumping stations and two sewage force mains

C. The following is a description of the intended sequence of major activities which will disturb soils for major portions of the construction site, such as grubbing, excavation and grading:

Most of the sanitary sewers will be built in the street right of ways. The pavement will be milled away and stock piled, the sewer trench will be excavated, sewers installed, backfilled with rock, rock surface replaced and then the street surface will be sealed with an A-3 surface treatment. Excess soil will be hauled away for disposal. The soil disposal site must be identified and erosion control measures must be used at that location.

Where the sewer is not in the street, the area will be cleared of any trees or utilities obstructing the path, the trench will be excavated, the pipe installed and backfilled with soil. The installation process will be contained in a path approximately 200 feet long. The covered trench must be temporarily seeded. At the appropriate season after all the sewers are installed, all disturbed areas must be permanently seeded.
At Pumping Station A, the pumping station sites will be cleared. Erosion control fence shall be installed around the site. The site will be graded. The wet well and underground piping will be installed and backfilled. The footings will be dug and poured. Power will be run to the station. The site will be rough graded and temporarily seeded. The station meter house will be built and the driveway will be paved. The site will then be fine graded and permanently seeded.

At Pumping Station B, the perimeter erosion control silt fence will be installed. The ditch inlet protection will be installed. The wet well, valve vault and site piping will be excavated and installed. The excess soil will be used to fill the site. The site and road ditch will be rough graded and the new culvert will be installed. The site will be temporarily seeded. Power will be run to the site and the concrete pads will be poured. The control panel and generator will be installed. The chain link fence will be installed. The driveway will be paved. The site will be planted and permanent seeding will be completed.

The force mains will be installed and backfilled. Where the force main crosses a drainage way, the slopes will be protected with erosion control mat and seeded.

After the permanent seeding is established, the erosion control fencing will be removed.

D. The total area of the construction site is estimated to be 237 acres.

The total area of the site that is estimated will be disturbed by excavation, grading or other activities is 17.7 acres.

E. The following is a weighted average of the runoff coefficient for this project after construction activities are completed:

70%

F. The following is a description of the soil types found at the project site followed by information regarding their erosivity:

See attachment

G. The following is a description of potentially erosive areas associated with this project:

The project area is relatively flat. Areas where the force main crosses streams and drainage ways are subject to erosion. The pumping station sites are subject to erosion.

H. The following is a description of soil disturbing activities, their locations, and their erosive factors (e.g. steepness of slopes, length of slopes, etc):

1. Sewer installation in the street right of ways. There is little opportunity for erosions. The work is confined to the streets and a road surface must be maintained for traffic.
2. Pumping Station A site is relatively flat. The area will be cleared and soil exposed to erosion. Soil excavated from the wet well will be piled on site until it is moved. The piles will have steep slopes and could erode.
3. Pumping Station B is in a drainage swale and can erode. The site is currently farmed and has no cover. The drainage up stream of the site must be directed away from the site for construction. Unit the site is graded it will be subject to erosion.
4. The force mains will be open cut and backfilled in the same operation. Erosion can occur along the trench if drainage is not directed away. Where the 10" force main crosses drainage swales, erosion can occur.

I. See the erosion control plans and/or drainage plans for this contract for information regarding drainage patterns, approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking (to be added after contractor identifies locations), areas of soil disturbance, the location of major structural and non-structural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands) and locations where storm water is discharged to surface water including wetlands.
J. The following is a list of receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site. The location of the receiving waters can be found on the erosion and sediment control plans:

Drainage in the Village goes to road ditches and then to field tiles. These tiles feed to tributaries of the Sangamon River. At the edges of the Village drainage goes to road ditched which feed to tributaries of the Sangamon River.

K. The following pollutants of concern will be associated with this construction project:

- Soil Sediment
- Concrete
- Concrete Truck Waste
- Concrete Curing Compounds
- Solid Waste Debris
- Paints
- Solvents
- Fertilizers / Pesticides
- Petroleum (gas, diesel, oil, kerosene, hydraulic oil / fluids)
- Antifreeze / Coolants
- Waste water from cleaning construction equipment
- Other (specify) House Keeping
- Other (specify)
- Other (specify)
- Other (specify)
- Other (specify)

II. Controls:

This section of the plan addresses the controls that will be implemented for each of the major construction activities described in I.C. above and for all use areas, borrow sites, and waste sites. For each measure discussed, the contractor will be responsible for its implementation as indicated. The contractor shall provide to the resident engineer a plan for the implementation of the measures indicated. The contractor, and subcontractors, will notify the resident engineer of any proposed changes, maintenance, or modifications to keep construction activities compliant with the permit. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan:

A. Erosion and Sediment Controls

1. Stabilized Practices: Provided below is a description of interim and permanent stabilization practices, including site specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices may include but are not limited to: temporary seeding, permanent seeding, mulching, geotextiles, sodding, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures. Except as provided below in II(A)(1)(a) and II(A)(3), 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 14 days after the construction activity in that portion of the site has temporarily or permanently ceased on all disturbed portions of the site where construction will not occur for a period of 21 or more calendar days.

   a. Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

The following Stabilization Practices will be used for this project:

- Preservation of Mature Vegetation
- Vegetated Buffer Strips
- Protection of Trees
- Temporary Erosion Control Seeding
- Temporary Turf (Seeding, Class 7)
- Temporary Mulching
- Permanent Seeding
- Erosion Control Blanket / Mulching
- Sodding
- Geotextiles
- Other (specify)
- Other (specify)
- Other (specify)
- Other (specify)
- Other (specify)

Describe how the Stabilization Practices listed above will be utilized:

Distributed areas will be temporarily seeded. When conditions are not conducive to temporary seeding, temporary mulching will be installed. Where the force main crosses drainage swales, erosion control blanket will be installed to protect the banks.
2. **Structural Practices:** Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include but are not limited to: perimeter erosion barrier, earth dikes, drainage swales, sediment traps, ditch checks, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. The installation of these devices may be subject to Section 404 of the Clean Water Act.

The following Structural Practices will be used for this project:

- [ ] Perimeter Erosion Barrier
- [x] Temporary Ditch Check
- [x] Storm Drain Inlet Protection
- [ ] Sediment Trap
- [ ] Temporary Pipe Slope Drain
- [ ] Temporary Sediment Basin
- [ ] Temporary Stream Crossing
- [ ] Stabilized Construction Exits
- [ ] Turf Reinforcement Mats
- [ ] Permanent Check Dams
- [ ] Permanent Sediment Basin
- [ ] Aggregate Ditch
- [ ] Paved Ditch
- [ ] Rock Outlet Protection
- [ ] Riprap
- [ ] Gabions
- [ ] Slope Mattress
- [ ] Retaining Walls
- [ ] Slope Walls
- [ ] Concrete Revetment Mats
- [ ] Level Spreaders
- [ ] Other (specify)
- [ ] Other (specify)
- [ ] Other (specify)
- [ ] Other (specify)
- [ ] Other (specify)
- [ ] Other (specify)

Describe how the Structural Practices listed above will be utilized:

Where sediment can enter the road ditches, the inlets will be protected. If the ditches have the potential of carrying higher flows and concentrated sediment, ditch checks will be installed.

3. **Storm Water Management:** Provided below is a description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

   a. Such practices may include but are not limited to: storm water detention structures (including wet ponds), storm water retention structures, flow attenuation by use of open vegetated swales and natural depressions, infiltration of runoff on site, and sequential systems (which combine several practices).

   The practices selected for implementation were determined on the basis of the technical guidance in Section 59-8 (Erosion and Sediment Control) in Chapter 59 (Landscape Design and Erosion Control) of the Illinois Department of Transportation Bureau of Design and Environment Manual. If practices other than those discussed in Section 59-8 are selected for implementation or if practices are applied to situations different from those covered in Section 59-8, the technical basis for such decisions will be explained below.

   b. Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g. maintenance of hydrologic conditions such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

   **Description of Storm Water Management Controls.**

   Care will be taken to avoid disturbing the vegetation in the existing ditches. The only change in grade or pervious area will be at the pumping station sites. At these locations, permanent seeding and redirection of surface drainage will be used.

4. **Other Controls:**

   a. **Vehicle Entrances and Exits** – Stabilized construction entrances and exits must be constructed to prevent tracking of sediments onto roadways.
The contractor will provide the resident engineer with a written plan identifying the location of stabilized entrances and exits and the procedures (s)he will use to construct and maintain them.

b. Material Delivery, Storage, and Use – The following BMPs shall be implemented to help prevent discharges of construction materials during delivery, storage, and use:
   - All products delivered to the project site must be properly labeled.
   - Water tight shipping containers and/or semi trailers shall be used to store hand tools, small parts, and most construction materials that can be carried by hand, such as paint cans, solvents, and grease.
   - A storage/containment facility should be chosen for larger items such as drums and items shipped or stored on pallets. Such material is to be covered by a tin roof or large sheets of plastic to prevent precipitation from coming in contact with the products being stored.
   - Large items such as light stands, framing materials and lumber shall be stored in the open in a general storage area. Such material shall be elevated with wood blocks to minimize contact with storm water runoff.
   - Spill clean-up materials, material safety data sheets, an inventory of materials, and emergency contact numbers shall be maintained and stored in one designated area and each Contractor is to inform his/her employees and the resident engineer of this location.

c. Stockpile Management – BMPs shall be implemented to reduce or eliminate pollution of storm water from stockpiles of soil and paving materials such as but not limited to portland cement concrete rubble, asphalt concrete, asphalt concrete rubble, aggregate base, aggregate sub base, and pre-mixed aggregate. The following BMPs may be considered:
   - Perimeter Erosion Barrier
   - Temporary Seeding
   - Temporary Mulch
   - Plastic Covers
   - Soil Binders
   - Storm Drain Inlet Protection

The contractor will provide the resident engineer with a written plan of the procedures (s)he will use on the project and how they will be maintained.

d. Waste Disposal. No materials, including building materials, shall be discharged into Waters of the State, except as authorized by a Section 404 permit.

e. The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

f. The contractor shall provide a written and graphic plan to the resident engineer identifying where each of the above areas will be located and how they are to be managed.

5. Approved State or Local Laws

The management practices, controls and provisions contained in this plan will be in accordance with IDOT specifications, which are at least as protective as the requirements contained in the Illinois Environmental Protection Agency’s Illinois Urban Manual, 1995. Procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials shall be described or incorporated by reference in the space provided below. Requirements specified in sediment and erosion site plans, site permits, storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI, to be authorized to discharge under permit ILR10 incorporated by reference and are enforceable under this permit even if they are not specifically included in the plan.

Description of procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials:

None
III. Maintenance:

The following is a description of procedures that will be used to maintain, in good and effective operating conditions, the vegetation, erosion and sediment control measures and other protective measures identified in this plan. The resident engineer will provide maintenance guides to the contractor for the practices associated with this project.

The site shall be periodically checked for surface erosion. Unprotected stockpiles of soil shall be temporarily seeded. The road ditches shall be checked after each rain for evidence of sediment. Excess soil shall be disposed of off site and effective erosion and sediment control shall be practiced at the disposal site. Periodic inspections shall be made at the disposal site by the engineer. Any soil tracked onto streets shall be removed daily.

IV. Inspections:

Qualified personnel shall inspect disturbed areas of the construction site which have not yet been finally stabilized, structural control measures, and locations where vehicles and equipment enter and exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

A. Disturbed areas, use areas (storage of materials, stockpiles, machine maintenance, fueling, etc.), borrow sites, and waste sites 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. Discharge locations or points that are accessible, 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 off site sediment tracking.

B. Based on the results of the inspection, the description of potential pollutant sources identified in section I above and pollution prevention measures identified in section II above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within ½ hour to 1 week based on the urgency of the situation. The resident engineer will notify the contractor of the time required to implement such actions through the weekly inspection report.

C. 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 this storm water pollution prevention plan, and actions taken in accordance with section IV(B) shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI. G of the general permit.

D. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the resident engineer shall complete and file an “Incidence of Noncompliance” (ION) report for the identified violation. The resident engineer shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of 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. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit.

The Incidence of Non-Compliance shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Compliance Assurance Section
1021 North Grand East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. Non-Storm Water Discharges:

Except for flows from fire fighting activities, sources of non-storm water that is combined with storm water discharges associated with the industrial activity addressed in this plan must be described below. Appropriate pollution prevention measures, as described below, will be implemented for the non-storm water component(s) of the discharge.
A. Spill Prevention and Control – BMPs shall be implemented to contain and clean-up spills and prevent material discharges to the storm drain system. The contractor shall produce a written plan stating how his/her company will prevent, report, and clean up spills and provide a copy to all of his/her employees and the resident engineer. The contractor shall notify all of his/her employees on the proper protocol for reporting spills. The contractor shall notify the resident engineer of any spills immediately.

B. Concrete Residuals and Washout Wastes – The following BMPs shall be implemented to control residual concrete, concrete sediments, and rinse water:
   - Temporary Concrete Washout Facilities shall be constructed for rinsing out concrete trucks. Signs shall be installed directing concrete truck drivers where designated washout facilities are located.
   - The contractor shall have the location of temporary concrete washout facilities approved by the resident engineer.
   - All temporary concrete washout facilities are to be inspected by the contractor after each use and all spills must be reported to the resident engineer and cleaned up immediately.
   - Concrete waste solids/liquids shall be disposed of properly.

C. Litter Management – A proper number of dumpsters shall be provided on site to handle debris and litter associated with the project. The Contractor is responsible for ensuring his/her employees place all litter including marking paint cans, soda cans, food wrappers, wood lathe, marking ribbon, construction string, and all other construction related litter in the proper dumpsters.

D. Vehicle and Equipment Cleaning – Vehicles and equipment are to be cleaned in designated areas only, preferably off site.

E. Vehicle and Equipment Fueling – A variety of BMPs can be implemented during fueling of vehicles and equipment to prevent pollution. The contractor shall inform the resident engineer as to which BMPs will be used on the project. The contractor shall inform the resident engineer how (s)he will be informing his/her employees of these BMPs (i.e. signs, training, etc.). Below are a few examples of these BMPs:
   - Containment
   - Spill Prevention and Control
   - Use of Drip Pans and Absorbents
   - Automatic Shut-Off Nozzles
   - Topping Off Restrictions
   - Leak Inspection and Repair

F. Vehicle and Equipment Maintenance – On site maintenance must be performed in accordance with all environmental laws such as proper storage and no dumping of old engine oil or other fluids on site.

VI. Failure to Comply:

Failure to comply with any provisions of this Storm Water Pollution Prevention Plan will result in the implementation of an Erosion and Sediment Control Deficiency Deduction against the contractor and/or penalties under the NPDES permit which could be passed onto the contractor.

Contractor Certification Statement

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency on May 30, 2003.

Route ____________________________ Marked Rt. ____________________________
Section ____________________________ Project No. ____________________________
County ____________________________ Contract No. ____________________________
I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification. I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project. I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

☐ Contractor

☐ Sub-Contractor

________________________________________________________________________
Print Name
________________________________________________________________________
Signature

________________________________________________________________________
Title
________________________________________________________________________
Date

________________________________________________________________________
Name of Firm
________________________________________________________________________
Telephone

________________________________________________________________________
Street Address
________________________________________________________________________
City/State/ZIP
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<th>High Water Table</th>
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