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

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.

MARY C. LAMIE PRINT NAME DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER

AGENCY

IL DEPT. OF TRANSPORTATION

## I. SITE DESCRIPTION:

A. THE FOLLOWING IS A DESCRIPTION OF THE PROJECT LOCATION:

THE PROJECT IS LOCATED ALONG ILLINOIS ROUTE 159 IN MADISON COUNTY FROM JUST NORTH OF CHURCH STREET TO JOHNSON STREET IN COLLINSVILLE, ILLINOIS,

B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:

THIS PROJECT WIDENS ILLINOIS ROUTE 159 ON BOTH SIDES TO PROVIDE ADDITIONAL LANES AND TO ADD CURB, GUTTER, AND STORM SEWER TO IMPROVE DRAINAGE.

THE WORK CONSISTS OF REALIGNING AND RECONSTRUCTING THE PAVEMENT TO PROVIDE A 44' TO 55' WIDE ROADWAY. THE IMPROVEMENTS REQUIRE THE DEMOLITION OF SEVERAL BUILDINGS AND REGRADING OF NEWLY CREATED OPEN AREAS.

IN ADDITION TO THE PAVEMENT WIDENING AND RECONSTRUCTION, THE IMPROVEMENTS INCLUDE EARTH EXCAVATION AND EMBANKMENT, THE CONSTRUCTION OF ENTRANCE APRONS AND SIDEWALKS ALONG ILLINOIS ROUTE 159 AS WELL AS ROAD IMPROVEMENTS TO SIDE ROADS.

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:

THIS WORK WILL BEGIN WITH DEMOLITION OF BUILDINGS AND REMOVAL OF PARKING LOTS AND WILL PROGRESS TO CONSTRUCTION ROADWAY PAVEMENTS AND ROADWAY APPURTENANCES.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE \_5\_ ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS \_5\_\_ ACRES.

- E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED: 0.83
- F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

GENERAL SUBSURFACE PROFILES WERE DEVELOPED ALONG THE PROPOSED ALIGNMENT. THE SOIL PROFILES CONSIST MAINLY OF SILT, SILT LOAM, SILTY CLAY AND SILTY CLAY LOAM. THE SOILS ENCOUNTERED ALONG THE SUBJECT CORRIDOR AS LISTED THROUGH THE NORS SOIL SURVEY INCLUDE WINFIELD-ORTHNETS-URBAN (2477B) AND URBAN (533) SOILS, INDIVIDUAL BORING LOGS AND LOCATIONS OF THE BORINGS CAN ALSO BE FOUND IN THE GEOTECH REPORT.

G. THE FOLLOWING IS A DESCRIPTION OF POTENTIALLY EROSIVE AREAS ASSOCIATED WITH THIS PROJECT:

THE REQUIRED FACTOR OF SAFETY WAS MET AND SLOPE STABILITY IS NOT ANTICIPATED TO BE A PROBLEM ALONG THIS ALIGNMENT, SETTLEMENT IS CONSIDERED NEGLIGIBLE AND SHOULD HAVE LITTLE TO NO IMPACT ON THE ROADWAY. REFERENCE THE APPROVED ROADWAY GEOTECHNICAL REPORT FOR ADDITIONAL SUBSURFACE INFORMATION.

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):

SOILS WILL BE DISTURBED WITHIN THE CONSTRUCTION AREA TO THE EXTENT OF DEMOLITION OF BUILDINGS AND THE CONSTRUCTION OF ROADWAY AND APPURTENANCES, THE TERRAIN IS RELATIVELY FLAT AND SEDIMENT SHOULD BE CONTROLLED WITHIN A SHORT DISTANCE OF ITS GENERATION LOCATION.

- 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 OFF SITE SEDIMENT TRACKING (TO BE ADDED AFTER CONTRACTOR IDENTIFIES LOCATIONS), AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL 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 AERIAL EXTENT OF WETLAND ACREAGE AT THE SITE. THE LOCATION OF THE RECEIVING WATERS CAN BE FOUND ON THE EROSION AND SEDIMENT CONTROL PLANS:

SEE THE FULL APPROVED DRAINAGE REPORT FOR A LIST OF THE RECEIVING WATERS.

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT:

PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS) M SOIL SEDIMENT M CONCRETE □ ANTIEREF7E / COOLANTS ⊠ CONCRETE TRUCK WASTE ■ WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT OTHER (SPECIFY) M CONCRETE CURING COMPOUNDS OTHER (SPECIFY)\_\_\_\_\_ M SOLID WASTE DEBRIS ☑ PAINTS OTHER (SPECIFY) ☐ SOLVENTS ▼ FERTILIZERS / PESTICIDES □ 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 CONTROL
- 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)(NO) 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 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASES ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.
- o. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH 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 CL VEGETATED BUFFER STRIPS ⋈ PROTECTION OF TREES M TEMPORARY EROSION CONTROL SEEDING

☐ TEMPORARY TURF (SEEDING, CLASS 7)

 ▼ TEMPORARY MULCHING I PERMANENT SEEDING

☐ EROSION CONTROL BLANKET / MULCHING M SODDING

☐ GEOTEXTILES OTHER (SPECIFY)\_

OTHER (SPECIFY)

□ OTHER (SPECIEY)

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED:

ALTHOUGH SOME TREES WILL BE REQUIRED TO BE REMOVED IN ORDER TO ALLOW FOR CONSTRUCTION ACTIVITY, EXCAVATION, AND EMBANKMENT, EXISTING VEGETATION AND TREES THAT ARE NOT MARKED TO BE REMOVED ON THE LANDSCAPE PLAN SHALL BE PROTECTED AND PRESERVED, UNLESS OTHERWISE DEEMED NECESSARY FOR REMOVAL PER THE ENGINEER, TEMPORARY EROSION CONTROL SEEDING WILL BE UTILIZED AS DENOTED IN THE STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION. SODDING WILL BE DONE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES. THE INTENT OF THESE STABILIZATION PRACTICES IS TO PROVIDE PROTECTION FROM EROSION AND CONTROL OF SEDIMENT IN AREAS OF DISTURBANCE AS SOON AS POSSIBLE.

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:

$\boxtimes$	PERIMETER EROSION BARRIER		ROCK OUTLET PROTECTION
	TEMPORARY DITCH CHECK		RIPRAP
$\boxtimes$	STORM DRAIN INLET PROTECTION		GABIONS
	SEDIMENT TRAP		SLOPE MATTRESS
	TEMPORARY PIPE SLOPE DRAIN		RETAINING WALLS
	TEMPORARY SEDIMENT BASIN		SLOPE WALLS
	TEMPORARY STREAM CROSSING		CONCRETE REVETMENT MATS
	STABILIZED CONSTRUCTION EXITS		LEVEL SPREADERS
	TURF REINFORCEMENT MATS		OTHER (SPECIFY)
	PERMANENT CHECK DAMS		OTHER (SPECIFY)
	PERMANENT SEDIMENT BASIN		OTHER (SPECIFY)
	AGGREGATE DITCH		OTHER (SPECIFY)
	PAVED DITCH		OTHER (SPECIFY)

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

INLET AND PIPE PROTECTION WILL BE PLACED AT THE LIPSTREAM END OF ALL PROPOSED INLETS TO PROTECT FROM SEDIMENTATION DUE TO EARTH EXCAVATION AND EMBANKMENT ACTIVITIES (SEE PLAN SCHEDULE OF QUANTITIES AND EROSION CONTROL PLAN SHEETS.)

PERIMETER EROSION CONTROL BARRIER WILL BE UTILIZED IN PLACES WHERE SEDIMENTATION MAY ESCAPE THE RIGHT-OF-WAY (SEE THE EROSION CONTROL PLAN FOR LOCATIONS.)

FILE NAME =	USER NAME = \$USER\$	DESIGNED - LDC	REVISED - 04/01/10	
\$FILEL\$		DRAWN - MBB	REVISED -	
	PLOT SCALE = \$SCALE\$	CHECKED - CHA	REVISED -	D
	PLOT DATE = sDATEs	DATE - 08/23/09	REVISED -	

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		SWPPP F	'LAN		600	60-(30.31.128)-N-1	MADISON	152	71
					2.3		CONTRACT	NO. 7	76D54
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