Illinois Department of Transportation

STORM WATER POLLUTION PREVENTION PLAN

ROUTE FA 999 MARKED RTE. I-70

SECTION 82-1B-2 PROJECT NO. D-98-066-09

COUNTY ST. CLAIR CONTRACT NO. 76D61

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.

MARY C. LAMIE (PRINT NAME) — Mary C. Lamie (SIGNATURE)

DISTRICT ENGINEER (TITLE) — 3-9-10 (DATE)

IDOT (AGENCY)

I. SITE DESCRIPTION:

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

THE PROJECT CONSISTS OF THE CONSTRUCTION OF FOUR (4) MAINTENANCE ACCESS ROADS AS PART OF THE PROPOSED MISSISSIPPI RIVER CROSSING PROJECT WHICH COVERS SEVERAL MILES OF ROADWAY AND BRIDGE IMPROVEMENTS THAT ARE NECESSARY TO CONNECT EXISTING INTERSTATE HIGHWAYS TO THE NEW MISSISSIPPI RIVER BRIDGE. ALSO INCLUDED IS THE CONSTRUCTION OF THE ILLINOIS APPROACH BRIDGE. THE RUNOFF COEFFICIENT FOR THE SITE IS 0.3.

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

CONSTRUCTION WILL INCLUDE THE REMOVAL AND REPLACEMENT OF CURB, TOPSOIL, CHAIN LINK FENCE, CLEARING AND GRUBBING, PLACEMENT OF RAILROAD CROSSINGS, 24" THICK GRAVEL FOR ACCESS ROAD SURFACES, LANDSCAPING, AND ALL INCIDENTALS AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.

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:

MAJOR CONSTRUCTION ACTIVITES INCLUDE DRILLED SHAFT CONSTRUCTION, BRIDGE FOOTING CONSTRUCTION, EARTH EXCAVATION AND EMBANKMENT, CONSTRUCTION OF GRAVEL ROADWAY, TOPSOIL, AND SEEDING.

D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 36 ACRES.

THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 16.5 ACRES.

E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:

THE ESTIMATED RUNOFF COEFFICIENTS OF THE VARIOUS AREAS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE CONTAINED IN THE PROJECT DRAINAGE STUDY, WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN. SINCE IMPERVIOUS MATERIALS WILL NOT BE USED IN THE CONSTRUCTION OF THE ACCESS ROADS, THE PROPOSED RUNOFF COEFFICIENT IS EXPECTED TO BE THAT OF THE EXISTING.

F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:

SOIL SURVEY INDICATES THAT THE AREA IS COMPRISED OF THE FOLLOWING SOIL TYPES:

1. URBAN LAND (533)
2. SHAFFTON CLAY LOAM (8183A) - THIS SOIL IS POORLY DRAINED AND EXPERIENCES OCCASIONAL FLOODING.
3. FULTS SILTY CLAY (8591A)- THIS SOIL IS POORLY DRAINED AND EXPERIENCES OCCASIONAL FLOODING WITH FREQUENT PONDING.

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

ALL OF THE PROPOSED IMPROVEMENTS ARE LOCATED WITHIN THE FLOODPLAIN VALLEY OF THE MISSISSIPPI RIVER, IN AN AREA KNOWN AS THE AMERICAN BOTTOMS. THE PROJECT AREA IS PROTECTED FROM THE MISSISSIPPI RIVER FLOODING BY AN URBAN LEVEE SYSTEM ON THE ILLINOIS SIDE WHICH IS LOCATED PRIMARILY NEAR THE BANK OF THE RIVER AND EXTENDING UPSTREAM AND DOWNSTREAM OF THE PROJECT VICINITY. THESE LEVEE SYSTEM PROTECT THE CITY OF EAST ST. LOUIS AND ADJACENT COMMUNITIES OF MADISON, BROOKLYN, AND VENICE.

SEVERAL RAILROAD FACILITIES ARE LOCATED ADJACENT TO THE PROJECT LIMITS. ENTRY IS NOT PERMITTED UNDER ANY CIRCUMSTANCES IN THESE AREAS. THIS INCLUDES ALL CONSTRUCTION TRAFFIC, FOOT AND MOTORIZED. PERIMETER FENCING AND NO- INTRUSION SIGNAGE WILL BE ERECTED. THESE PROTECTION DEVICES ARE LISTED IN THE EROSION CONTROL PLAN.

THE 100-YEAR GROUND WATER ELEVATION HAS BEEN IDENTIFIED AS A SPECIFIC CONSTRAINT AND MUST BE MAINTAINED TO PROTECT THE EXISTING COMMUNITIES. ADDITIONAL EXCAVATION IS BEING PROVIDED, WHERE APPROPRIATE, AS COMPENSATORY STORAGE TO OFFSET FILL PLACED BELOW THIS ELEVATION.

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):

IN GENERAL THE EXISTING SITE IS VERY FLAT WITH VERY LITTLE DEFINED DRAINAGE. EXISTING CONCRETE, TREES, AND SHRUBS WILL BE CLEARED FROM THE SITE PER CONTRACT PLANS.

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 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:

THE CAHOKIA CANAL IS THE PRIMARY TRIBUTARY THAT FLOWS THROUGH THE PROJECT VICINITY. THE CANAL CONVEYS RUNOFF FROM THE UPLAND AREAS THAT LIE TO THE EAST OF THE MISSISSIPPI FLOODPLAIN AND ALSO FROM PORTIONS OF THE BOTTOMS. SEVERAL TRIBUTARY STREAMS/CANALS OF THE CAHOKIA CANAL INTERCEPT THE UPLAND RUNOFF, INCLUDING CANTEEN CREEK SCHOOLHOUSE BRANCH AND JUDY'S BRANCH. THE EXISTING DRAINAGE WITHIN THIS AREA IS COMPRISED OF DITCHES, DEPRESSIONS, WETLANDS, AND THE CAHOKIA CANAL. RAINFALL WITHIN THE VARIOUS DRAINAGE BASINS TENDS TO POOL INTO THE DEPRESSIONS FROM SURFACE RUNOFF AND SHALLOW CONCENTRATED FLOW IN THE DITCHES. FOR MOST AREAS, THERE IS NO KNOWN DRAINAGE OUTLET TO SOME OF THESE "POOLING" AREAS. TWO CONDITIONS PREVAIL AS TO HOW THE DRAINAGE IS HANDLED AT THAT POINT. IF THE CAHOKIA CANAL IS BELOW FLOOD STAGE, THE DEPRESSIONS WILL DISCHARGE INTO THE CANAL. IF THE CANAL IS AT OR ABOVE FLOOD STAGE, THE CANAL WILL DISCHARGE A PORTION OF IT'S FLOW INTO THE DEPRESSIONS UNTIL AN EQUALIZATION ELEVATION IS REACHED.

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT: (CHECK ALL THAT APPLY)

- ☒ 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)_____
- ☐ 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 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)(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 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.

a. 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.

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = Josh Jolliff
PLOT SCALE = 1.0000 ' / IN.
PLOT DATE = 3/8/2010

DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB

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REVISED -
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REVISED -

STORM WATER POLLUTION PREVENTION PLAN
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

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