

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
75	84-12; 11-3	*	729	233
STA.	N/A	TO STA.	N/A	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
* SANGAMON AND CHRISTIAN				

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP ROUTE 75

Marked: IL ROUTE 29

Section: 84-12; 11-3

Project No.: -----

County: CHRISTIAN & SANGAMON

Contract No.: 72829

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISION 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 PERSONNEL GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRE OF THE DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING 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.

*Roger J. Dan*  
 (DISTRICT ENGINEER)

3/28/12  
 (DATE)

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL SYSTEMS, AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE WITH ALL REQUIREMENTS CONTAINED IN THIS PLAN AS A PART OF THIS CONTRACT.

THE PURPOSE OF THIS PLAN IS TO PREVENT / MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE, AND TO PREVENT SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE, THROUGH THE USE OF PROPER PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS, WHICH ARE CORRECTLY INSTALLED IN A TIMELY MANNER.

THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION SHALL PLACE CERTAIN ITEMS, SHOWN IN THE PLANS, REFERENCED BY THE LEGEND OR SHOWN IN THE PLAN NOTES. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER IN A CASE, BY CASE BASIS, DEPENDING UPON SEASON, EXPECTED WEATHER CONDITIONS AND THE CONTRACTOR'S SEQUENCE OF ACTIVITY. THE STAGES OF THE PROJECT AS SHOWN IN THE PLANS, MUST BE FOLLOWED BY THE CONTRACTOR.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION AND SEDIMENT CONTROL SYSTEMS WITHIN A REASONABLE PERIOD OF TIME AND AS DIRECTED BY THE ENGINEER. THIS WILL REDUCE THE AMOUNT OF AREA EXPOSED TO THE POSSIBILITY OF EROSION, AND REDUCE THE QUANTITY OF TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS, AND TEMPORARY SEEDING NECESSARY TO FULFILL THE REQUIREMENTS OF THIS PLAN. THE ENGINEER WILL DETERMINE THE PLACEMENT OF SYSTEMS SHOWN ON THE PLANS, AND IF ANY SYSTEMS WILL BE ADDED OR DELETED AS NECESSARY TO FULFILL THE REQUIREMENTS OF THIS PLAN IN CONTROLLING EROSION AND SEDIMENTATION. THE ENGINEER WILL DETERMINE THE FINAL SIZE AND SPACING OF ALL SYSTEMS TO BE INSTALLED IN ORDER TO FUNCTION AS INTENDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 AND IN THE SPECIAL DETAILS.

THE SPECIAL PROVISIONS FOR EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION, AND TEMPORARY EROSION CONTROL ADDITIONALLY SUPPLEMENT THIS PLAN.

ALL DISTURBED AREAS WHICH ARE DETERMINED BY THE ENGINEER AS HAVING A HIGH POTENTIAL FOR EROSION, SHALL BE TEMPORARILY OR PERMANENTLY SEEDED AND MULCHED BY OCTOBER 1, AND SHALL NOT BE REOPENED UNTIL AFTER THE WINTER SHUTDOWN PERIOD.

SITE DESCRIPTION

LAND USE ADJACENT TO THE PROJECT IS PRIMARILY ROW CROP AGRICULTURE, WEEDY GRASSES, SMALL TREES AND SHRUBS ARE FOUND ADJACENT TO WATERCOURSES LISTED BELOW, AND OTHER MINOR DRAINAGE WAYS. THIS TYPE OF COVER, ALONG WITH SOME NATIVE PRAIRIE OF INTERMEDIATE QUALITY IS FOUND ADJACENT TO THE ABANDONED RAILWAY IN AREAS SHOWN IN THE PLANS. LAWNS AND LANDSCAPE PLANTINGS EXIST AT LOCATIONS OF EXISTING HOMESTEADS THROUGHOUT THE PROJECT LIMITS.

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROPOSED PROJECT CONSISTS OF REMOVING THE EXISTING TWO LANE FACILITY AND CONSTRUCTING A NEW FOUR-LANE FACILITY ALONG 7.250 MILES OF ILLINOIS ROUTE 29 BETWEEN BERRY AND EDINBURG IN CHRISTIAN AND SANGAMON COUNTIES. INCLUDED IS GRADING FOR A PROPOSED BIKEWAY, AND A BYPASS OF EDINBURG ON NEW ALIGNMENT. THE EXISTING PAVEMENT WITHIN EDINBURG FROM TR 73 (2050N) TO TR 88 (725E) WILL REMAIN.
2. CONSTRUCTION CONSISTS OF GRADING, CONSTRUCTING CULVERTS AND DITCHES, AND OTHER WORK REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENT.

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION IN THE CONSTRUCTION SITE:

1. GRADING AND PERMANENT STABILIZATION OF ROAD SIDE DITCHES AND PIPES FOR FUTURE CONVEYANCE OF HIGHWAY DRAINAGE INTO EXISTING LAND DRAINAGE PATTERNS.
2. INSTALLATION OF CROSS-ROAD CULVERTS AND GRADING AND PERMANENT STABILIZATION OF DITCHES CONNECTING THEM TO CROSS-ROAD DITCHES AND OFF-SITE DRAINAGE. THIS INCLUDES PERMANENT DETENTION BASINS/INFIELD GRADING, AND SILT BASINS AT EXIT POINTS OF THE RIGHT OF WAY.
3. CONSTRUCTION OF A MAJOR DOUBLE BARREL BOX CULVERT AND OUTLET WORKS TO CARRY McCLOSKEY BRANCH CREEK UNDER PROPOSED IL ROUTE 29 ALONG THE EDINBURG BYPASS, INCLUDES STAGED CONSTRUCTION NECESSARY TO DIVERT THE CREEK AWAY FROM THE IMMEDIATE CONSTRUCTION AREA.
4. CONSTRUCTION OF A MAJOR DOUBLE BARREL BOX CULVERT TO CARRY AN EXISTING DRAINAGE DISTRICT CHANNEL (LICK CREEK) UNDER PROPOSED IL ROUTE 29 ALONG THE EDINBURG BYPASS, INCLUDES STAGED CONSTRUCTION NECESSARY TO DIVERT THE CREEK AWAY FROM THE IMMEDIATE CONSTRUCTION AREA.
5. CONSTRUCTION OF A MAJOR SINGLE BARREL BOX CULVERT TO CARRY EXISTING DRAINAGE DISTRICT CHANNEL (LICK CREEK) UNDER PROPOSED CH 23 NORTH OF EDINBURG AND CHANNEL ENCLOSURE ALONG CH 23, INCLUDING STAGED CONSTRUCTION AND DIVERSION NECESSARY TO MAINTAIN FLOW THROUGH THE CONSTRUCTION AREA.
6. CONSTRUCTION OF A MAJOR SINGLE BARREL BOX CULVERT TO CARRY EXISTING HUNSLEY BRANCH OF THE SOUTH FORK OF THE SANGAMON RIVER CHANNEL UNDER PROPOSED IL ROUTE 29, INCLUDING STAGED CONSTRUCTION AND DIVERSION NECESSARY TO MAINTAIN FLOW THROUGH THE CONSTRUCTION AREA.
7. GRADING, PAVING AND FINAL STABILIZATION OF THE EDINBURG BYPASS.
8. GRADING, PAVING AND FINAL STABILIZATION OF PORTIONS OF THE PROPOSED SOUTHBOUND LANES, TOWNSHIP ROAD RELOCATIONS AND BIKEWAY.
9. GRADING, PAVING AND FINAL STABILIZATION OF PORTIONS OF THE PROPOSED NORTHBOUND LANES AND REMAINING TOWNSHIP ROAD RELOCATIONS.
10. GRADING, PAVING AND FINAL STABILIZATION OF CONNECTING ROADS AND THE REMAINING PORTION OF NORTH AND SOUTH BOUND LANES.
11. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS WILL CONTINUE DURING EACH STAGE AS NECESSARY TO CONTROL EROSION AND SEDIMENTATION AND AS SHOWN IN THE PLANS FOR THAT STAGE.

AREA OF THE CONSTRUCTION SITE:

THE TOTAL DRAINAGE AREA ENTERING AND INCLUDING THE CONSTRUCTION SITE IS ESTIMATED TO BE 4714 ACRES. 258 ACRES ARE ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING OR OTHER CONSTRUCTION ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THIS STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. ESTIMATED RUN-OFF COEFFICIENTS ARE CONTAINED IN THE PROJECT DRAINAGE STUDY, WHICH WERE UTILIZED FOR PROPOSED DESIGN OF TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL SYSTEMS.
2. INFORMATION ON THE SOILS WITHIN THE SITE WAS OBTAINED FROM FIELD REVIEWS AND SOILS MAPPING WHICH WERE UTILIZED IN THE DESIGN OF THE EROSION AND SEDIMENT CONTROL SYSTEMS.
3. SITE MAPS INDICATING DRAINAGE AREAS AND PATTERNS, APPROXIMATE SLOPES CONTAINED IN THE PROJECT DESIGN REPORT, USGS DRAINAGE MAPS, PROJECT DRAINAGE STUDY AND PROJECT PLAN DOCUMENTS WERE ALL UTILIZED IN THE DESIGN OF THE EROSION AND SEDIMENT CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES RECEIVING WATER FROM THIS CONSTRUCTION SITE:

1. McCLOSKEY BRANCH OF THE SOUTH FORK OF THE SANGAMON RIVER
2. LICK CREEK DRAINAGE DISTRICT CHANNEL, TRIBUTARY TO THE SOUTH FORK OF THE SANGAMON RIVER
3. OTHER MINOR TRIBUTARIES OF THE SOUTH FORK OF THE SANGAMON RIVER.

CONTROLS - EROSION AND SEDIMENTATION CONTROLS

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION

THIS PROJECT WILL APPROACH EROSION AND SEDIMENT CONTROL BY BEGINNING STABILIZATION AT THOSE POINTS WHERE THE PROJECT WILL DISCHARGE DRAINAGE INTO THE NATURAL DRAINAGE PATTERN, AND WORK TOWARD THE ROADWAY. FINAL STABILIZATION AND THE PERMANENT EROSION AND SEDIMENT CONTROL SYSTEMS WILL BE COMPLETED AS THE VARIOUS STAGES IN THE SEQUENCE ARE COMPLETED IN ORDER TO PROVIDE CONTINUOUS DOWNSTREAM PROTECTION THROUGHOUT THE CONSTRUCTION OF THE PROJECT.

1. PRIOR TO BEGINNING WORK, PERIMETER BARRIER WILL BE ERRECTED AT ALL AREAS DESIGNATED WITHIN THE PLANS WHERE SLOPES WILL ALLOW OVER-LAND FLOW TO LEAVE THE PROJECT AREA. WHERE EXISTING NATIVE GRASS IS TO BE PRESERVED PERIMETER BARRIER WILL BE PLACED AT THE PROPOSED CONSTRUCTION LIMITS ADJACENT TO THAT GRASS.
2. STONE BASINS OR OTHER INDICATED CATCHMENTS WILL BE CONSTRUCTED AT THOSE POINTS WHERE PROJECT DRAINAGE IS DESIGNED TO FLOW INTO THE NATURAL DRAINAGE PATTERN.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION

THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL CONTINUOUSLY CONDUCT SURVEILLANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS, PERFORMING ALL NECESSARY MAINTENANCE AND REPAIRS WHEN REQUIRED AND AS DIRECTED BY THE ENGINEER WITHIN 24 HOURS. IN ORDER TO MAINTAIN THE INTEGRITY AND EFFECTIVENESS OF THOSE SYSTEMS, THE ENGINEER WILL INSPECT ALL SYSTEMS WEEKLY AND AFTER EACH RAIN EVENT OF 0.5 INCH OR MORE, AND PREPARE A WRITTEN REPORT ON FORM BC2259, WHICH MAY DIRECT THE CONTRACTOR TO CORRECT DEFICIENCIES, MAINTAIN OR REPAIR SYSTEMS, OR INSTALL ADDITIONAL SYSTEMS.

1. THE CONTRACTOR SHALL IMMEDIATELY FOLLOW ALL MAJOR EARTH MOVING OPERATIONS WITH FINAL GRADING AND STABILIZATION. IF FINAL GRADING IS NOT COMPLETED WITHIN FOURTEEN DAYS OF THE COMPLETION OF ROUGH GRADING IN AN AREA, ALL MAJOR EARTH MOVING OPERATIONS WILL BE STOPPED WHEN DIRECTED BY THE ENGINEER, UNTIL DISTURBED AREAS ARE GRADED AND STABILIZED AS SPECIFIED.
2. SALVAGED PRAIRIE SOIL, IF NOT SPREAD IMMEDIATELY AT ITS FINAL LOCATION, SHALL BE STOCKPILED UNTIL NEEDED. ALL SOIL STOCKPILES SHALL BE COVERED AND ENCIRCLED WITH A PERIMETER BARRIER IMMEDIATELY. WHEN THE STOCKPILE IS REMOVED, THE AREA OF THE PILE SHALL BE IMMEDIATELY STABILIZED AS DIRECTED BY THE ENGINEER, AND THE PERIMETER BARRIER REMOVED.
3. AS DITCHES AND OTHER GRADING IN STAGE 1, 2 AND 3 ARE COMPLETED, THE FINISHED AREAS WILL BE PERMANENTLY STABILIZED WITHIN A REASONABLE TIME AS REQUIRED BY THE CONTRACT AND AS DIRECTED BY THE ENGINEER. DITCHES HAVING SIDE SLOPES STEEPER THAN 1:3 OR DITCH GRADES STEEPER THAN 3% WILL BE MULCHED WITH EXCELSIOR BLANKET EXCEPT WHERE STONE LINING IS SPECIFIED. PRIOR TO FINAL STABILIZATION, AGGREGATE DITCH CHECKS AND TEMPORARY EROSION CONTROL SEEDING WILL BE EMPLOYED TO CONTROL EROSION AND SEDIMENTATION.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: N/A  
 DATE: 03/06/2012  
 DRAWN BY: R.A.H.  
 CHECKED BY: J.M.M.

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 3/16/2012