

FINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK	TEMP. DATE		
NO.	AREAS CHECKED		

## STORMWATER POLLUTION PREVENTION PLAN

### PROJECT NAME & LOCATION:

MCT PARK-RIDE IMPROVEMENTS  
US HIGHWAY 40  
HIGHLAND, ILLINOIS

### OWNER NAME & ADDRESS:

MADISON CO. TRANSIT  
1 TRANSIT WAY  
GRANITE CITY, ILLINOIS 62040

### PROJECT DESCRIPTION:

THE SITE CONSISTS OF APROXIMATELY 0.85 ACRES OF OIL AND CHIP PAVEMENT AND APROXIMATELY 3.9 ACRES OF GRASSED FIELD. THE SITE BEING APROXIMATELY 4.75 ACRES TOTAL. THE SITE IS BORDERED BY STATE HIGHWAY 40 AND IS CURRENTLY USED BY MADISON COUNTY TRANSIT AS A PARK AND RIDE FACILITY. A PASSENGER SHELTER IS THE ONLY STRUCTURE ON SITE AND WILL BE REPLACED BY A NEW PASSENGER SHELTER.

THE PROPOSED DEVELOPMENT WILL CONSIST OF MINOR GRADING, CONSTRUCTION OF A DETENTION BASIN, ELECTRIC UTILITY CONSTRUCTION, CONSTRUCTION OF BITUMINOUS AND CONCRETE PAVEMENT, AND STRIPPING FOR THE PARKING LOT.

### RUNOFF COEFFICIENT

THE EXISTING RUNOFF COEFFICIENT OF THE SITE, REPRESENTING THE PREVIOUSLY DEVELOPED CONDITIONS THAT EXISTS, IS 0.49. THE FUTURE RUNOFF COEFFICIENT , REPRESENTING THE NEW PARKING LOT AND SHELTER IS 0.62.

### SEQUENCE OF MAJOR ACTIVITIES

THE ORDER OF ACTIVITIES WILL BE APPROXIMATELY AS FOLLOWS:

- 1 - INSTALL EROSION CONTROL/SILT FENCES.
- 2 - DEMOLITION.
- 3 - CLEAR AND GRUB AREAS TO BE GRADED.
- 4 - ROUGH GRADE SITE.
- 5 - APPLY TEMPORARY SEEDING ON DISTURBED AREAS NOT TO BE PAVED.
- 6 - COMPLETE FINAL GRADING FOR PAVED SURFACING.
- 7 - CONSTRUCT BITUMINOUS AND PORTLAND CEMENT CONCRETE SURFACING.
- 8 - CONSTRUCT PASSENGER SHELTER.
- 9 - COMPLETE PERMANENT SEEDING/LANDSCAPING.

### NAMES OF RECEIVING WATERS

THE PROPOSED DEVELOPMENT WILL DRAIN INTO A NEW DETENTION BASIN WHICH WILL THEN BE RELEASED AT THE PREDEVELOPED FLOW RATE INTO AN EXISTING CULVERT. WATER NOT ENTERING INTO THE DETENTION BASIN WILL BE RELEASED UNRESTRAINED TO STATE HIGHWAY 40. THESE WATERS ULTIMATELY DRAIN TO TRIBUTARIES OF SUGAR CREEK.

## CONTROLS - EROSION AND SEDIMENT CONTROLS

### STABILIZATION PRACTICES

#### TEMPORARY STABILIZATION:

TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THE AREA. THE TEMPORARY SEED SHALL BE RYE (GRAIN) APPLIED AT THE RATE OF 120 POUNDS PER ACRE OR IDOT CLASS 7 MIX APPLIED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEEDBED PREPARATION IS NOT RFEQUIRED IF SOIL IS IN LOOSE CONDITION. PRIOR TO SEEDING, 10-6-4 FERTILIZER SHALL BE APPLIED TO EACH ACRE TO BE STABILIZED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS PER ACRE OF STRAW, IF NEEDED. THE STRAW MULCH IS TO BE TACKED INTO PLACE BY A DISK WITH BLADES SET NEARLY STRAIGHT. EROSION AND SEDIMENT CONTROLS WILL BE INSTALLED PER CONSTRUCTION DRAWINGS PREPARED BY JUNEAU ASSOCIATES, INC., P.C.

#### PERMANENT STABILIZATION:

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL CONSIST OF 100 LBS/ACRE ALTA FESCUE OR KY31, AND 50 LBS/ACRE PERENNIAL RYE GRASS, AND 40 LBS/ACRE OF CREEPING RED FESCUE, AND 10 LBS/ACRE OF RED TOP IN ACCORDANCE WITH IDOT CLASS 2 MIX. PRIOR TO SEEING 10-6-4 FERTILIZER SHALL BE APPLIED AT THE RATE OF 250 POUNDS PER ACRE, TO EACH ACRE TO BE STABILIZED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS PER ACRE OF STRAW. THE STRAW MULCH IS TO BE TACKED INTO PLACE BY A DISK WITH BLADES SET NEARLY STRAIGHT.

SLOPES, DEFINED AS ALL GRADES EQUAL TO AND GREATER THAN 4 HORIZONTAL TO 1 VERTICAL, SHALL BE PERMANENTLY STABILIZED WITH IDOT CLASS 3 MIX, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS DEFINED ON THE APPROVED LANSCAPING PLANS.

#### EROSION CONTROL BLANKET:

WHERE INDICATED ON THE CONSTRUCTION DRAWINGS, EROSION CONTROL BLANKET SHALL BE PROVIDED. MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED ON THE CONSTRUCTION PLANS AND ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

#### DETENTION BASIN:

A DETENTION BASIN WILL BE CONSTRUCTED AS AN INTEGRAL PART OF THE STORMWATER DRAINAGE SYSTEM. DRAINAGE FROM THE PARKING LOT WILL BE COLLECTED IN A GRASSED DITCH AND ROUTED TO THE DETENTION BASIN. THE DETENTION BASIN WILL RESTRICT FLOW RATES THAT PREVIOUSLY EXISTED FOR THE SITE FOR THE 10-YEAR AND 100-YEAR RETURN FREQUENCIES. WATERS DETAINED IN THE DETENTION BASIN WILL OUTLET TO AN EXISTING CULVERT LOCATED UNDER US HIGHWAY 40. TO PREVENT SILTATION FROM ENTERING DOWNSTREAM AREAS, THE DETENTION BASIN WILL BE CONSTRUCTED WITH A PIPE PROTECTION PLACED AROUND THE OUTLET PIPE.

### STORM WATER MANAGMENT

STORM WATER DRAINAGE FOR THE DEVELOPMENT WILL BE PROVIDED BY ALLOWING SHEET FLOW TO A GRASSED DITCH USED TO ROUTE THE SITE DRAINAGE TO THE PROPOSED DETENTION BASIN.

PROPOSED GRADING SLOPES SHALL NOT EXCEED THE SLOPES INDICATED ON THE GRADING PLAN. TYPICALLY IN MOST AREAS, THIS SHALL NOT EXCEED A 3 HORIZONTAL TO 1 VERTICAL.

UPON COMPLETION OF THE GRADING REQUIRED FOR THE BUILDING AND PARKING LOT, EROSION CONTROL BLANKET SHALL BE PROVIDED FOR THE AREAS DEFINED ON THE DRAWINGS. PERMANENT SEEDING SHALL BE APPLIED ALONG WITH THE INSTALLATION OF THE BLANKET. ALL EROSION CONTROL SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

### OTHER CONTROLS

#### WASTE DISPOSAL

##### WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURED CONTAINER WHICH WILL MEET ALL LOCAL AND ANY STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND SITE CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE CONTAINER. THE CONTAINER WILL BE EMPTIED AS NEEDED. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL.

##### OFFSITE VEHICLE TRACKING:

STABILIZED ROCK CONSTRUCTION EXIT PADS SHALL BE LOCATED AT ALL POINTS OF EGRESS USED DURING CONSTRUCTION TO REDUCE VEHICLE TRACKING ONTO ADJACENT ROADWAYS. DETAILS OF THE CONSTRUCTION EXIT PAD ARE SHOWN ON THE CONSTRUCTION PLANS AND SHALL BE MAINTAINED AS NEEDED TO PREVENT TRACKING.

ALL STREETS SHALL BE KEPT CLEAR OF ANY MUD, DIRT OR ROCK TRACKED FROM THE SITE. MUD TRACKED ONTO THE ROADWAY, WILL BE RAKED OR SWEEPED OFF OF THE SURFACE.

### TIMING OF CONTROLS / MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE TWO STABILIZED CONSTRUCTION ENTRANCES AND EROSION AND SEDIMENT CONTROLS WILL BE CONSTRUCTED PRIOR TO CLEANING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH.

### CERTIFICATION AND COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE REQUIRMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL AS BY THE STATE OF ILLINOIS.

#### MAINTENANCE / INSPECTION PROCEDURES

THE FOLLOWING INSPECTION AND MAINTENANCE PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

-ALL CONTROL MEASURES WILL BE INSPECTED ONCE EACH WEEK, OR AS NEEDED, AND FOLLOWING ANY STORM EVENT OF 0.5 INCH OR GREATER DURING CONSTRUCTION. A RAIN GAUGE WILL BE AVAILABLE ON SITE TO MEASURE RAIN ACCUMULATION. A LOG OF ALL EROSION CONTROL MAINTENANCE WILL BE PROVIDED AND WILL BE AVAILABLE ON SITE FOR REVIEW BY GOVERNING AUTHORITIES.

-ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

-BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE VOLUME OF THE UNDERCUT AREA IS REDUCED BY ONE-HALF.

-SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

-TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

-A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS ATTACHED.

-THE SITE CONTRACTOR WILL SELECT AS MANY AS THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

-PERSONNEL SELECTED FOR INSPECTION REPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE CONTRACTOR. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

#### NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING CONSTRUCTION:

-PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURED).

-UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

-WATER FROM WATERLINE FLUSHING.

### INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

- CONCRETE
- FERTILIZERS
- PETROLEUM BASED PRODUCTS
- WOOD
- MASONRY BLOCK
- TAR

### SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICIES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

-MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

-ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

-THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

-THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM RECURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

-THE SITE CONTRACTOR RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE AS MANY AS THREE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8873	00-00012-00-PK	MADISON	18	10
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

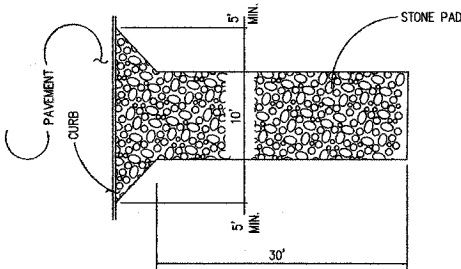
CONTRACT NO. 97270

### POLLUTION PREVENTION PLAN

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.

*Opus*  
LOCAL AGENCY OFFICIAL

12/20/05  
DATE




#### NOTES:

- 1) STONE SIZE: ASTM D448 SIZE #1 (1 1/2 " TO 3 1/2 " DIA.)
- 2) PAD THICKNESS 12"
- 3) MAY REQUIRE PERIODIC TOP DRESSING WITH 2" STONE.
- 4) MAINTAIN IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC ROADS.
- 5) LOCATE AT ALL POINTS OF EGRESS ONTO PUBLIC ROADS.

### TEMPORARY CONSTRUCTION EXIT

ORIGINAL SURVEY	SURVEYED PLOTTED	BY	DATE
NOTE BOOK	TEMP. DATE		
NO.	AREAS CHECKED		

 <b>Juneau Associates, Inc. P.C.</b> CONSULTING ENGINEERS AND LAND SURVEYORS 2100 State Street, P.O. Box 1320 Granite City, Illinois 62040-4728 Phone: (618)877-1400/(618)452-5532 Fax: (618)452-5541				<b>EROSION CONTROL NOTES</b> HIGHLAND PARK-RIDE IMPROVEMENTS MADISON COUNTY TRANSIT HIGHLAND, ILLINOIS SECTION No. 00-00012-00-PK			
REVISIONS				SCALE:			
NO.	DATE	BY	REMARKS	DSN. BY:	RGL/AJW	DATE:	12/20/05
				OWN. BY:	RGL/AJW	DATE:	12/20/05
				CHK'D:	RAK	DATE:	12/20/05
DWG. NO.				JOB NO.	E054401	DWG NAME:	OF 18 SHTS