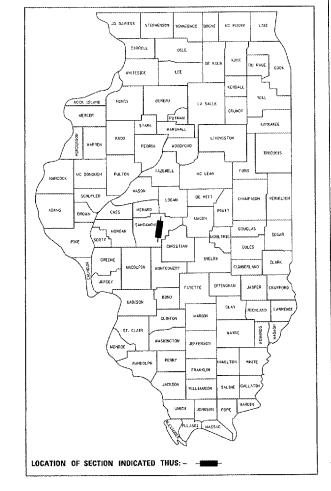
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DEPARTMENT OF TRANSPORTATION

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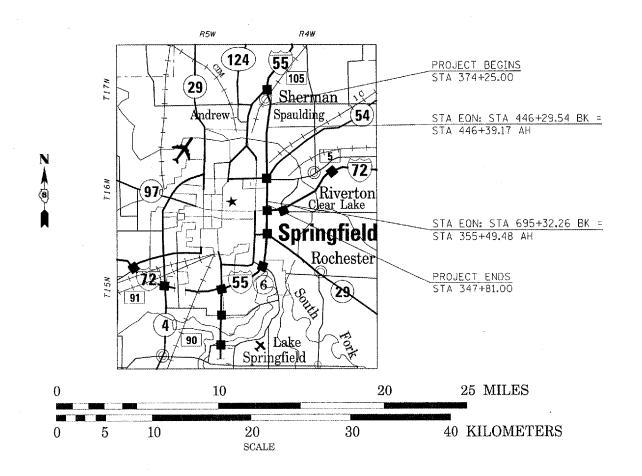
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI 55 (I-55) SECTION D-6 CABLE MEDIAN BAR #2 **SANGAMON COUNTY** PROJECT # HSIP-055-3(139)102 C-96-515-07



GROSS LENGTH OF PROJECT = 32,866.11 FEET = .6.22 MILES NET LENGTH OF PROJECT = 32,866.11 FEET = 6.22 MILES

CONTRACT NO. 72A56

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

SANGAMON COUNTY

SECTION D-6 CABLE MEDIAN BAR #2

INDEX OF SHEETS

11-22 PLAN SHEETS

000001-04

630001--07

635006-02

635011-01

701101-01

DETAILS

COVER SHEET

GENERAL NOTES

TYPICAL SECTIONS

GRADING DETAIL

HIGHWAY STANDARDS

SUMMARY OF QUANTITIES

SCHEDULES OF QUANTITIES

CABLE GUARD MARKER DETAIL

26A:26B. STORM WATER POLLLITION

701106--01 701400-02

701406-04 702001--06

PREVENTION PLAN

GIBRALTAR CABLE BARRIER DETAILS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO.72456

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.I. RTE.	SECTIO	N	COUNT	Y	SHEETS
55	•		SANGA	MON	26
STA.		то	STA.		
tto bo	AD DIST. NO.	BIINDE	FED.	AID	PROJEC

- D-6 CABLE MEDIAN BAR *2

		LOCATION OF WORK			URBAN I-55 90% FEO./10% STATE
		SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE
CO	DDE NO.	ITEM	UNIT	TOTAL QUANTITY	SFTY-ZA
202	200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	292	292
250	001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	4	4
251	100630	EROSION CONTROL BLANKET	SQ YD	19,476	19, 476
	000250 203013	TEMPORARY EROSION CONTROL SEEDING HOT-MIX ASPHALT SHOULDERS, 4"	POUND SQ YD	800 18, 656	18, 656
482	203037	HOT-MIX ASPHALT SHOULDERS, 10"	SO YD	648	648
630	000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	475	475
631	100167	TRAFFIC BARRIER TERMINAL TYPE 1. SPECIAL (TANGENT)	EACH	2	2 .
632	200310	GUARDRAIL REMOVAL	FOOT	900	900
671	100100	MOBILIZATION	L SUM	1	1
701	1.00700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
701	103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
701	106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	4
782	200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8
. 782	201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2
X03	325231	CABLE GUARD MARKER	EACH	699	699
x03	325589	HIGH TENSION CABLE MEDIAN BARRIER	FOOT	27, 764	27, 764
x03	325590	HIGH TENSION CABLE MEDIAN BARRIER TERMINAL	EACH	8	8
zoc	029999	IMPACT ATTENUATOR REMOVAL	EACH	3	3
X03	25606	HIGH TENSION CABLE MEDIAN BARRIER DEMONSTRATION	EACH	2	. 2
	were the second second second			•	

REVISIO	NS I	THE THOIS OF DADTHE	ENT OF TRANSPORTATION
NAME	DATE	TELINOIS DEI ANTINE	INT OF TRANSFORTATION
		SUMMARY	OF QUANTITIES
		FAI	55 (I-55)
		SECTION D-6 C	ABLE MEDIAN BAR #2
		SANGA	MON COUNTY
••••••••••••		SCALE: VERT.	DRAWN BY
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		DATE	CHECKED BY

F.A.I. SECTION
55 • STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT . - D-6 CABLE MEDIAN BAR "2 **€** I-55 48' & VAR PR EROSION CONTROL SEEDING (AS NECESSARY) 8% 20:1 & VAR 20:1 & VAR PR EXCAVATING & GRADING EX SHLD - PR SEEDING AND EROSION CONTROL BLANKET PR HMA SHLD, 4" NOTES: EXCAVATION FOR THE HMA SHOULDER WILL BE MEASURED AND PAID FOR AS EXCAVATING AND GRADING EXISTING SHOULDER. NOT TO SCALE WHICH SHALL INCLUDE GRADING AND COMPACTING THE FILL AREA TO THE SATISFACTION OF THE ENGINEER. ILLINOIS DEPARTMENT OF TRANSPORTATION DURING THE GRADING OPERATIONS, CARE SHALL BE TAKEN NOT TO FILL OR DISTURB EXISTING PIPE UNDERDRAIN HEADWALLS OR OTHER DRAINAGE STRUCUTRES. GRADING DETAIL FAI 55 (I-55)
SECTION D-6 CABLE MEDIAN BAR #2
SANGAMON COUNTY 3. EROSION CONTROL SEEDING SHALL BE APPLIED AS NECESSARY (SEE SWPPP) SCALE: VERT. DRAWN BY DATE

BALES PLACED ON EDGE

O. 3m (1') MIN.

SEE NOTE 1

O. 675m (2'-3") MIN. - SEE NOTE 1

O. 675m (2'-3") MIN. - SEE NOTE 1

O. 675m (2'-3") MIN. - SEE NOTE 1

O. 6 m

O.

## HAY OR STRAW BALE TEMPORARY DITCH CHECK

(TYPICAL & SEE GENERAL NOTES FOR SUBSTITUTION TO FLUSH RIPRAP DITCH CHECK)

EXTRUDING RIPRAP-DITCH CHECK SEDIMENT BASIN (18" DEPTH) FLUSH RIPRAP 0 DITCH CHECK 3' TYP. PLAN NOTE 3 -PLAN 0.3 m 0.900m (3'-0") MIN. SEE NOTE 2 150mm (6") EMBEDMENT ---TYP. (2'-0") & VAR. & VAR. ELEVATION ELEVATION OPTION 1 OPTION 2 (EXTRUDING DITCH CHECK) (FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS RECOMMENDED FOR AREAS W/ RIPRAP DITCH LINING STONE DUMPED RIPRAP DITCH CHECK W/O RIPRAP DITCH LINING (TYPICAL & OPTIONS 1 & 2 AS DIRECTED BY THE ENGINEER)

LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

ITEM SYMBOL AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')] TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION) INLET PIPE PROTECTION (1&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION) EROSION CONTROL FENCE EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS) PRESERVE EXISTING TREES. WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS) ITEM PLACED AT BEGINNING OF * ITEM * CONSTRUCTION (Requirement) ITEM PLACED AS DIRECTED BY ITEM ENGINEER (When required by situation) DIRECTION OF OVERLAND FLOW

GENERAL NOTES:

All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.

REVISIONS
NAME DATE
CAD Symbol 2AUG99
JCN MAR2004

ILLINOIS DEPARTMENT OF TRANSPORTATION

# STORM WATER POLLUTION PREVENTION PLAN

FAI 55 (I-55)
SECTION D-6 CABLE MEDIAN BAR *2
SANGAMON COUNTY

SCALE: VERT. HORIZ. DATE: APRIL 5, 1999

CHECKED BY JON

NOTE 1: BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALFS.

0.450 n

HAY OR STRAW BALE

(TYPICAL ELEVATION)

NOTE 2: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 3: ENDS SHALL BE TIED INTO SLOPES.

**SWPPLAN** 

STRINGS OR

#### STORM WATER POLLUTION PREVENTION PLAN

Route: FAT 55

Marked: I-55

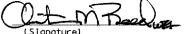
Section: D-6 CABLE MEDIAN BAR #2 Project No.: NA

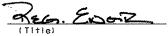
County: Sangamon County

Contract No.: 72A56

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 direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquire of the 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.





Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize silitation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other Items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions Temporary Seeding, Temporary Erosion Control Seeding, and Temporary Erosion Control additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Englneer, shall be temporarily seeded or permanently seeded by October 1, 2007 and shall not be reopened until after the winter shutdown period.

#### SITE DESCRIPTION

#### Description of Construction Activity:

- 1. The project consists of installing High Tension Cable Median Barrier.
- 2. Construction includes grading and shaping existing median shoulder, for the construction of a Hot-Mix Asphalt shoulder (mow strip).

## Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

- 1. Excavating and grading for the HMA shoulder, installing High Tension Cable Median Barrier. Apply Erosion Control Seeding as necessary.
- 2. Final grading of the shoulder after construction of the HMA shoulder. Apply Erosion Control Seeding as necessary.
- 3. Seeding and placing erosion control blanket.

#### Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 66 acres in which 4 acres will be disturbed by excavation, grading or other activities.

#### Drainage Tributaries Receiving Water from this Construction Site:

- Sanaamon River
- 2. Minor tributaries of the above

ILLINOIS DEPARTMENT OF TRANSPORTATION STORM WATER POLLUTION PREVENTION PLAN FAI 55 (I-55) SECTION D-6 ÇABLE MEDIAN BAR *2 SANGAMON COUNTY

> SCALE: VERT. DATE: APRIL 5, 1999

DRAWN BY CADD CHECKED BY JON

Added Sheet 2-20-07

TOTAL SHEET SHEETS NO. SECTION COUNTY 55 SANGAMON 26 26C STA TO STA FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

- - D-6 CABLE MEDIAN BAR #2

#### CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

- Description of Stabilization Practices at the Beginning of Construction:

  1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist
  - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance
  - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
  - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
  - (d) Bare and sparsely vegetated ground in highly erodable areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion
  - (e) Immediately after tree removal is completed in certain areas which are highly erodable areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision *Temporary Erosion Control Seeding*.
  - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or rigrap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside slitation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesireable conditions.
- 2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be
- A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

#### Description of Stabilization Practices During Construction:

- 1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
  - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
  - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused

  - for more than fourteen days.

    (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
  - 1. Place temporary erosion control systems at locations where water leaves and enters the construction zone
  - 11. Temporary seed highly erodoble areas outside the construction slope limits
    111. Construct roadside ditches and provide temporary erosion control systems

  - Temporary divert water around proposed culvert locations
  - v. Build necessary embankment at culvert locations and then excavate and place culvert vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch fining and conduct final shaping to the slopes
  - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
  - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

- (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be Inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary,
- (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.
- (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

- Description of Structural Practices After Final Grading:

  1. Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded, Temporary riprap ditch checks will be allowed to remain in place where approved by the

#### Maintenance after Construction:

- 1. Construction is complete after acceptance is received at the final inspection.
- 2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
- 3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
- Maintenance crews will also aid in any ditch lining maintenance or in any drainage
- 5. All maintenance will be conducted at times when weather conditions will not cause site damage.

- A report summarizing the scape of the inspection, name(s) and qualifications of personnel making the inspection, 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 4.b. shall be made and retained as part of the plan for at least three years after the date of Inspection. The report shall be signed in accordance with part VI.C of the general permit.
- 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 or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the 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.C. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency Division of Water Pollution Control 2200 Churchill Road, P.O. Box 19276 Springfield, IL 62794-9276 Attn: Compliance Assurance Section

ILLINOIS DEPARTMENT OF TRANSPORTATION

#### STORM WATER POLLUTION PREVENTION PLAN

FAI 55 (I-55) SECTION D-6 CABLE MEDIAN BAR #2 SANGAMON COUNTY

SCALE: VERT. HORIZ. DATE: APRIL 5. 1999

DRAWN BY CADD CHECKED BY JON

SWPPLAN

DATE NAME SCALE NAME

ADDED SHEET 2-20-07

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	CONTRACTOR CERTIFIC	ATION STATEMENT
below I	rtification statement is part of th n accordance with NPDES Permit No.I ion Agency on	ne Storm Water Pollution Plan for the project described LRIO, issued by the Illinois Environmental
	Route: FAP XX	
	Section:	Project No.: NA
,	County: District 6 County	Contract No.:
)ischar	ge Elimination System (NPDES) permi	erstand the terms of the general National Poliutant t that authorizes the storm water discharges
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Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

ILLINOIS DEPARTMENT OF TRANSPORTATION

### STORM WATER POLLUTION PREVENTION PLAN

FAI 55 (I-55)
SECTION D-6 CABLE MEDIAN BAR *2
SANGAMON COUNTY

SCALE: VERT, HORIZ, DATE: APRIL 5, 1999

ADDED SHEET 2-20-07