

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	1

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FAI ROUTE 70 (I-55/70)  
SECTION 60-8-1WS  
PROJECT  
MADISON COUNTY

MARYVILLE WEIGH STATION - HIGH SPEED WIM

C-98-108-05

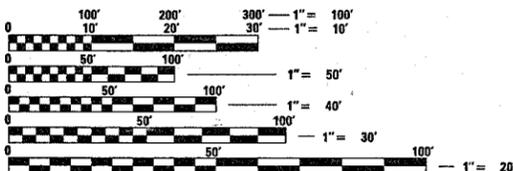
INDEX OF SHEETS

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STANDARDS

- |             |             |
|-------------|-------------|
| 420001 - 06 | 701426 - 02 |
| 442101 - 06 | 702001 - 06 |
| 482006 - 02 | 780001 - 01 |
| 701101 - 01 | 781001 - 02 |
| 701106 - 01 | 886001      |
| 701400 - 02 | 886006      |
| 701401 - 03 |             |
| 701411 - 03 |             |

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS



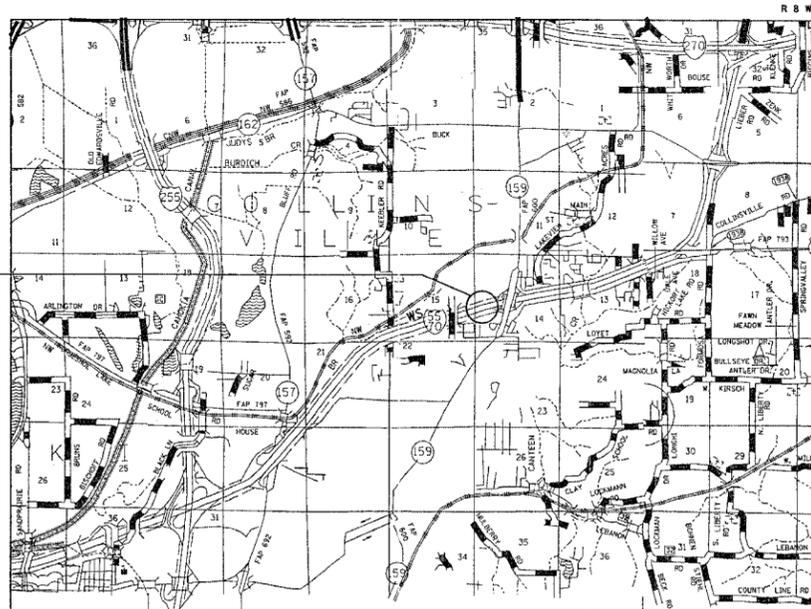
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

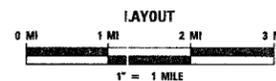
CONTRACT NO. 76944



MARYVILLE WEIGH STATION  
1/4 MILE WEST OF IL 159  
  
BEGIN STA 686+65.25  
END STA 689+65.25  
PROJECT LENGTH=300 FT



COLLINSVILLE TOWNSHIP



LOCATION OF SECTION INDICATED THUS: -

TRAFFIC DATA

I-55/70 (WB) ADT DATA

2005 -	20,100
2007 (PROJECTED) -	20,700
MU -	23.4%
SU -	3.3%

WB RAMP OFF IL-159 ADT DATA

2002 -	2050
2007 (PROJECTED) -	2200
MU -	1.8%
SU -	5.4%

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED December 12, 2006

*Mary E. Janice*  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER

February 2, 2007

*Eric E. Harsh*  
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2007

*Milton R. Seer, P.E.*  
DIRECTOR, DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

PROJECT ENGINEER: PATTI LeBEAU (618) 346-3179  
SQUAD LEADER: BHARAT PATEL (618) 346-3190

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	2
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

**GENERAL NOTES**

- ILLINOIS STATE LAW REQUIRES A 48 HOURS NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - AMEREN IP (GAS & ELECTRIC)
  - AT&T ILLINOIS (COMMUNICATIONS)
  - CHARTER COMMUNICATIONS, INC. (CABLE T.V.)
  - CITY OF COLLINSVILLE (WATER & SANITARY SEWER)
  - CITY OF TROY (WATER)

MEMBERS OF J.U.L.I.E. 1-800-892-0123 ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- WORK ZONE LANE CLOSURE REQUEST: THE RESIDENT ENGINEER / RESIDENT TECHNICIAN WILL SUBMIT A WORK ZONE LANE CLOSURE REQUEST FORM FOR APPROVAL TO MR. BOB GIELOW (TRAFFIC CONTROL SUPERVISOR) TEN WORKING DAYS BEFORE THE LANE CLOSURE WILL BE IMPLEMENTED. THE FORM CAN BE OBTAINED FROM MR. BOB GIELOW (PH. # 618-346-3287).
- THE RESIDENT ENGINEER / RESIDENT TECHNICIAN WILL CALL THE ILLINOIS STATE POLICE (618-346-3677) TO COORDINATE WEIGH STATION CLOSURE.
- PLACE "WEIGH STATION CLOSED" SIGN ON A TYPE III BARRICADE ALONG SIDE THE "ROAD CONSTRUCTION" SIGN. THE "WEIGH STATION CLOSED" SIGN ON A TYPE III BARRICADE SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED IN THE TRAFFIC CONTROL PAY ITEMS.
- DETECTOR LOOP WIRES SHALL BE HELD TIGHTLY IN THE BOTTOM OF THE SAWED SLOT BY MEANS OF A PLASTIC FOAM TYPE MATERIAL. THE "BACKER ROD" SHALL COMPLETELY COVER THE WIRE AND PROVIDE A BARRIER BETWEEN THE WIRE AND THE SEALANT.
- DETECTOR LOOP LEAD-IN SHALL BE SPLICED IN A RIGID MOLD. ROSIN-CORE SOLDER SHALL BE USED.
- THE CLASS B PATCHES, TYPE IV, 15 1/4" SHALL BE IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATION.
- ANY REFERENCE TO "BITUMINOUS CONCRETE" SHALL BE CONSIDERED TO DENOTE "HOT MIX ASPHALT".

**LEGEND - ELECTRICAL**

- GSC GALVANIZED STEEL CONDUIT
- PVCC POLYVINYL CHLORIDE CONDUIT
-  EXISTING SIGNAL POST
-  EXISTING TRAFFIC SIGNAL MAST ARM
-  EXISTING HANDHOLE
-  EXISTING DETECTOR LOOP
-  EXISTING CONTROLLER
-  EXISTING CONDUITS
-  EXISTING PIEZO SENSOR (P1)
-  PROPOSED CONDUITS
-  PROPOSED DETECTOR LOOP
-  PROPOSED PIEZO SENSOR (P1)
-  PROPOSED WIM SCALE

**COMMITMENT**

CONSTRUCTION WILL NOTIFY THE LOCAL OFFICIALS OF THE UPCOMING DETOUR TWO WEEKS PRIOR TO CLOSURE. (REFERENCE: SEE "DETOUR REPORT" IN STUDIES AND PLANS FILE POCKET)

**PERTINENT INFORMATION**

IN ACCORDANCE WITH THE IDOT-IEPA "AGREEMENT ON MICRO SCALE AIR QUALITY ASSESSMENTS FOR IDOT SPONSORED TRANSPORTATION PROJECT", THIS PROJECT IS EXEMPT FROM A PROJECT-LEVEL CARBON MONOXIDE AIR QUALITY ANALYSIS BECAUSE IT DOES NOT ADD THROUGH LANES OR AUXILIARY LANES.

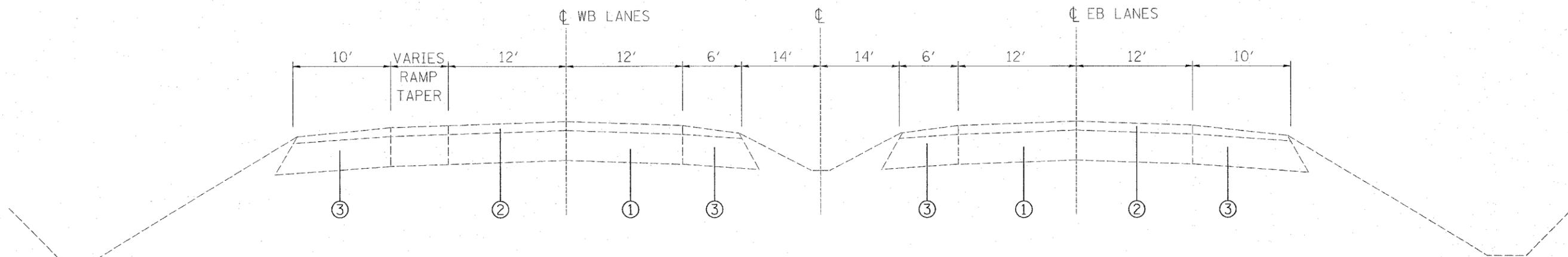
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GENERAL NOTES AND LEGEND**  
**MARYVILLE WEIGH STATION**  
 FAI ROUTE 70  
 SECTION: 60-8-1WS  
 COUNTY: MADISON

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**LEGEND**

- ① EXISTING PCC PAVEMENT 10" WITH PAVEMENT FABRIC
- ② EXISTING HOT-MIX ASPHALT SURFACE 5 1/4"
- ③ EXISTING HOT-MIX ASPHALT SHOULDER 10" (WITH 5 1/4" BITUMINOUS OVERLAY)

PLOT DATE = 12/6/2006  
 PLOT SCALE = 60' HORIZ. / 1" VERT.  
 REFERENCE = 08REF

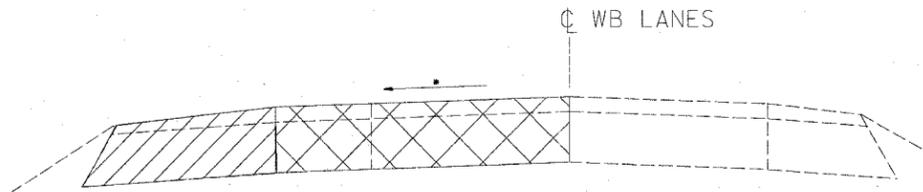
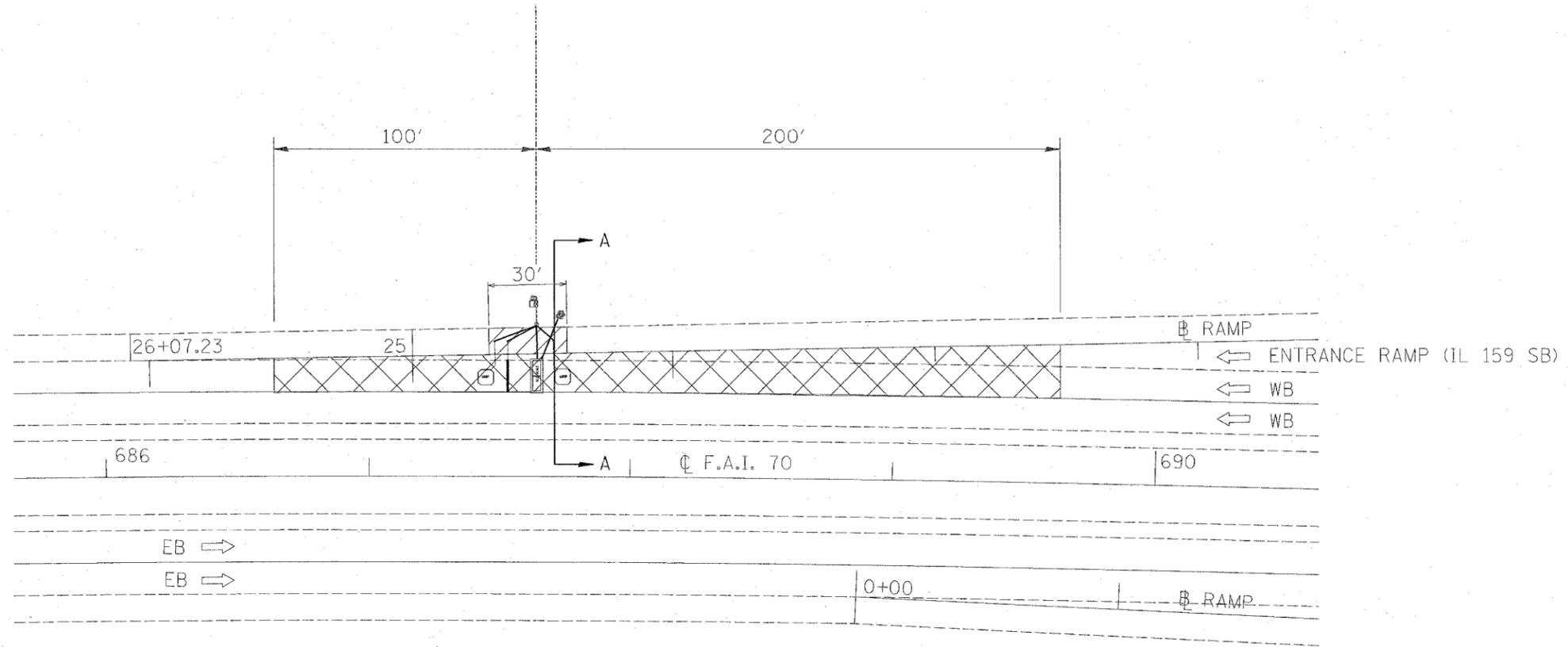
REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TYPICAL SECTION**  
 FAI ROUTE 70  
 SECTION 60-8-1WS  
 MADISON COUNTY

SCALE: VERT. DATE  
 HORIZ. CHECKED BY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

☐ PROPOSED WIM SCALES  
(LOCATION APPROXIMATE)



SECTION A-A

• CROSS SLOPE OF PAVEMENT PATCH SHALL MATCH EXISTING, BUT NOT EXCEED 3%  
(LONGITUDINAL SLOPE OF THE PAVEMENT PATCH SHALL MATCH EXISTING BUT NOT EXCEED 2%)

THE FOLLOWING MIX REQUIREMENTS APPLY TO THIS PROJECT:

MIX USE	SHOULDER
PG	PG 58-22
RAP %	30 %
DESIGN AIR VOIDS	2.0 % @ Ndes = 30
FRICTION AGG	BAM

- CLASS B PAVEMENT PATCH
- PAVED SHOULDER REMOVAL

CLASS B PAVEMENT PATCH 15 1/4"	PAVEMENT FABRIC	TIE BARS 3/4"	DOWELL BARS 1 1/2"	SAW CUTS
(SQYD)	(SQYD)	(EACH)	(EACH)	(FOOT)
550	550	150	25	653

PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDER SUPERPAVE 15 1/4"	SHOULDER RUMBLE STRIP
(SQYD)	(SQYD)	(FOOT)
33.3	33.3	30

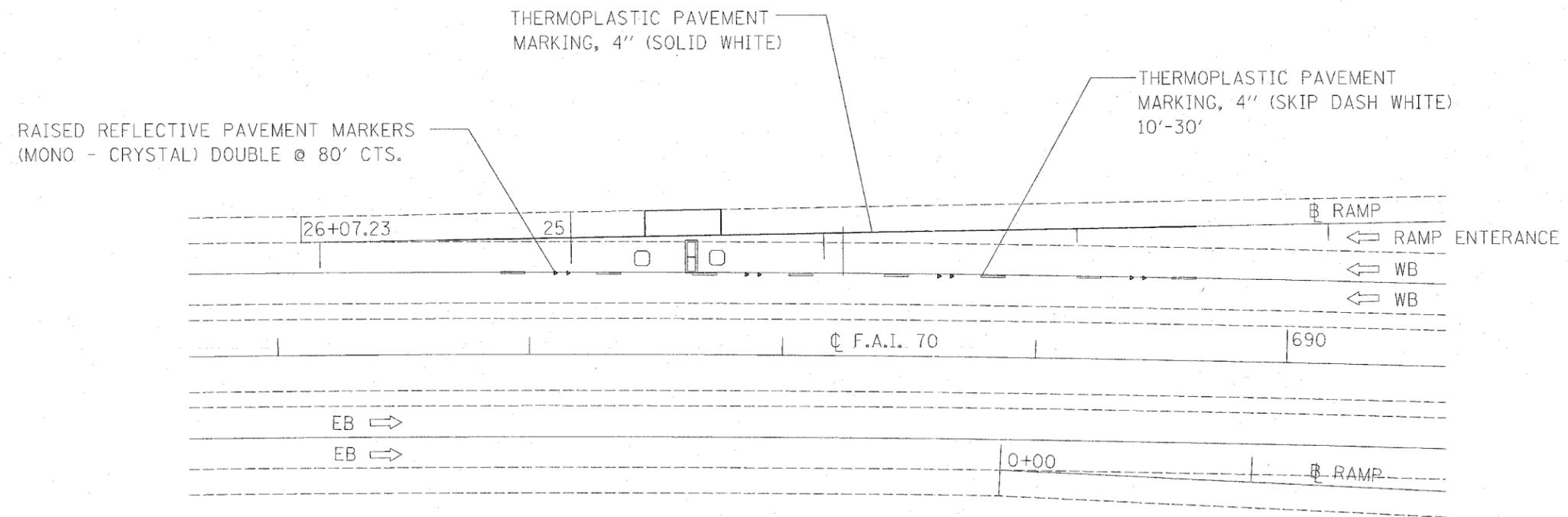
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
FAI ROUTE 70  
SECTION 60-8-1WS  
MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_

DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



THERMOPLASTIC PAVEMENT MARKING 4" - WHITE (FOOT)		RAISED REFLECTIVE PAVEMENT MARKERS (EACH)	RAISED REFLECTIVE PAVEMENT MARKERS REMOVAL (EACH)
SOLID EDGE	SKIP DASH	(EACH)	(EACH)
300	80		
380		8	8

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PAVEMENT MARKINGS**  
 FAI ROUTE 70  
 SECTION 60-8-1WS  
 MADISON COUNTY

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = 12/6/2006  
 FILE NAME = c:\projects\70m\6081ws\plan\p148785.dgn  
 PLOT SCALE = 1"=40' / 31.8  
 REFERENCE = #REF#

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DETOUR FOR  
SOUTHBOUND IL 159 TO  
WESTBOUND I-55/70

NOTES

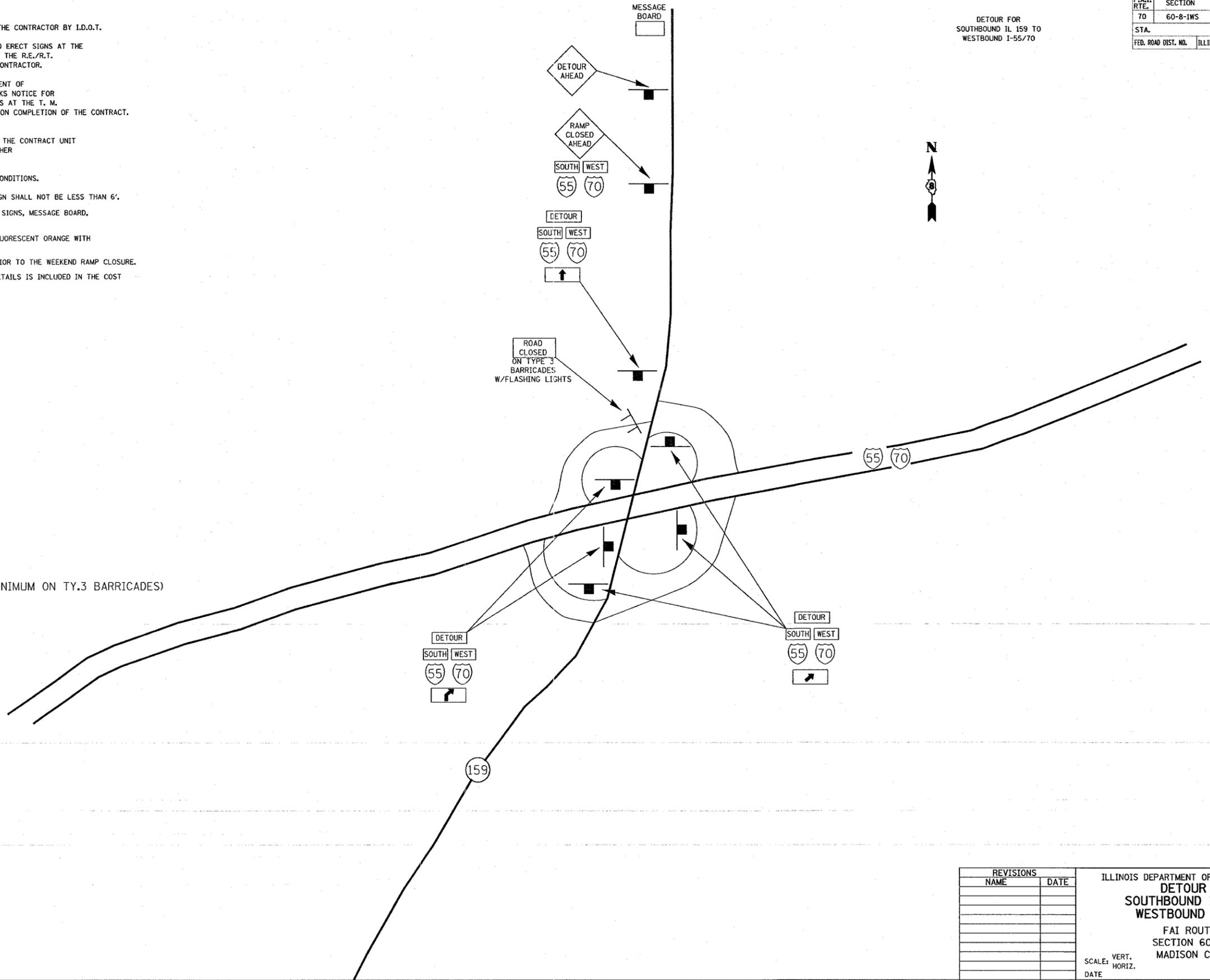
- DETOUR SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
- THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T. M. BUILDING IN FAIRVIEW HGTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE 345-3289
- THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR DETOUR SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
- SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
- THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.
- CONTRACTOR SHALL FURNISH ADVANCE WARNING SIGNS, MESSAGE BOARD, AND TYPE 3 BARRICADES.
- ALL ADVANCE WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE WITH FLASHING LIGHTS.
- MESSAGE BOARD SHALL BE SET UP 2 WEEKS PRIOR TO THE WEEKEND RAMP CLOSURE.
- ALL WORK DESCRIBED ABOVE AND SHOWN IN DETAILS IS INCLUDED IN THE COST FOR DETOUR SIGNING - L SUM.

TO BE SUPPLIED BY IDOT

-  (7)       (6)
-  (7)       (1)
-  (7)       (2)
-  (7)       (3)

TO BE SUPPLIED BY CONTRACTOR

-  (1)       (2 MINIMUM ON TY.3 BARRICADES)
-  (1)       (1)



PLOT DATE = 12/6/2006  
 PLOT SCALE = 500/1000  
 REFERENCE = #REF#

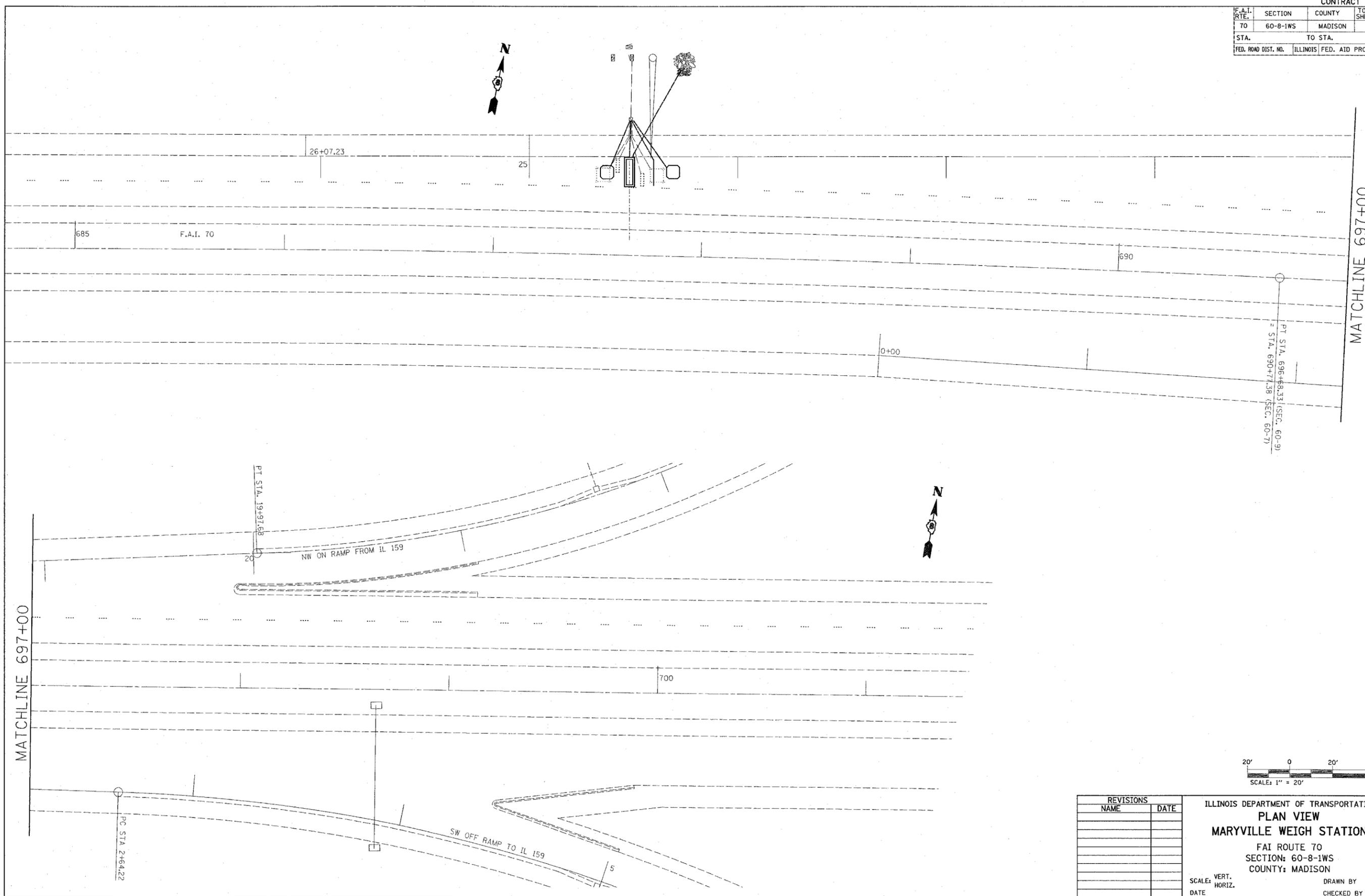
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETOUR FOR  
 SOUTHBOUND IL 159 TO  
 WESTBOUND I-55/70**  
 FAI ROUTE 70  
 SECTION 60-8-1WS  
 MADISON COUNTY  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

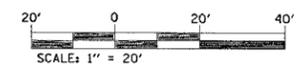
CONTRACT NO. 76944

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	8
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



MATCHLINE 697+00

MATCHLINE 697+00



REVISIONS	
NAME	DATE

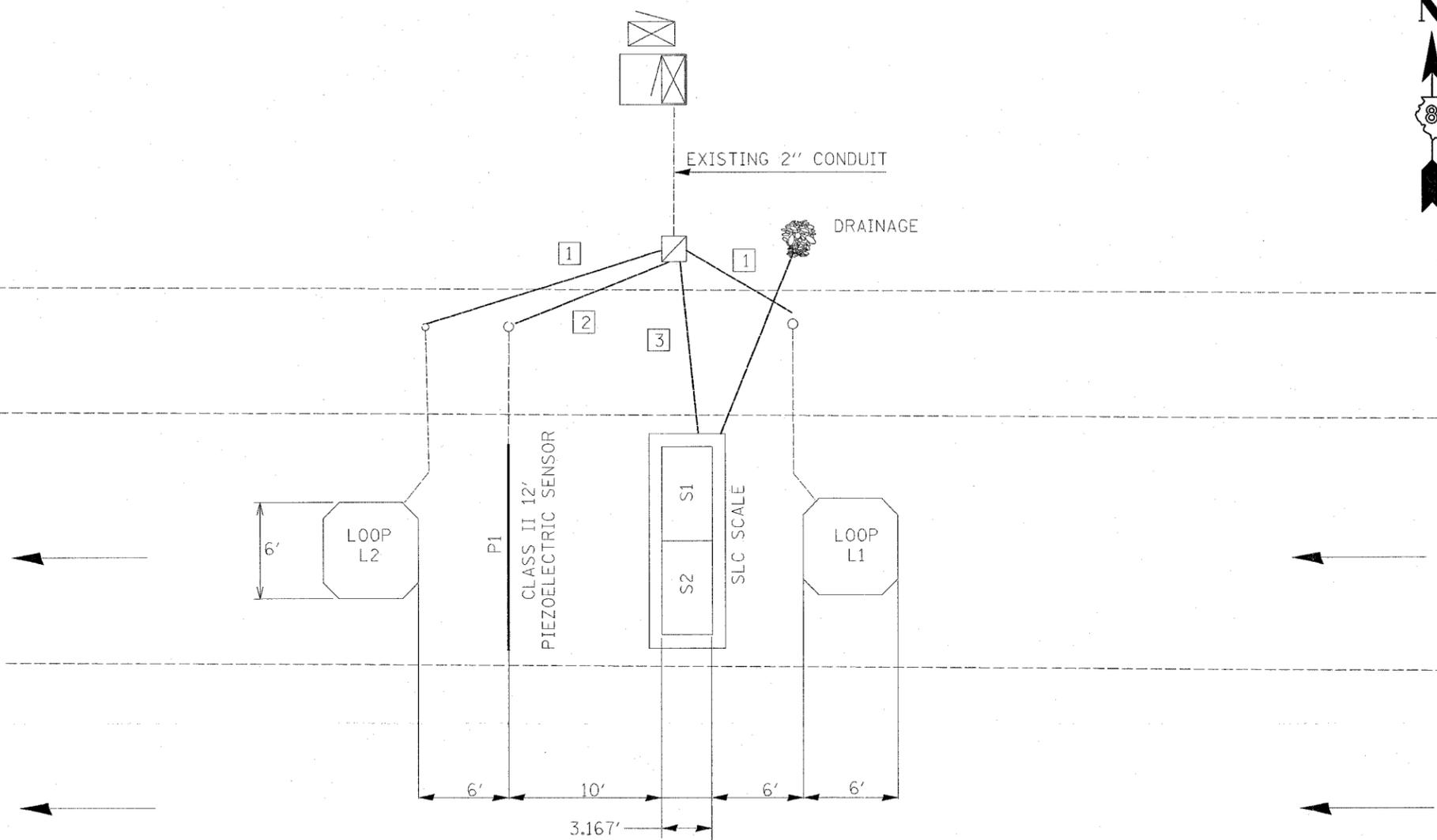
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAN VIEW**  
**MARYVILLE WEIGH STATION**  
 FAI ROUTE 70  
 SECTION: 60-8-1WS  
 COUNTY: MADISON

SCALE: VERT. \_\_\_\_\_  
 DATE \_\_\_\_\_ HORIZ. \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

PLOT DATE = #DATE#  
 PLOT SCALE = #SCALE#  
 PLOT NAME = #NAME#  
 REFERENCE = #REF#

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# WEIGH-IN-MOTION EQUIPMENT LAYOUT



**SIGNAL CONDUITS:**

- 1 1" CONDUIT  
1-2C 14AWG (LOOP WIRE)
- 2 1" CONDUIT  
1= RG58 COAXIAL CABLE (PIEZO LEAD)
- 3 2" CONDUIT  
2-3PR 20AWG (SLC LEAD)  
4-2C 18AWG (OFF SCALE LEAD)

**LOOP DETAILS:**

LOOP=	SIZE	NUMBER OF TURNS
L1	6' x 6'	4
L2	6' x 6'	4

REVISIONS	
NAME	DATE

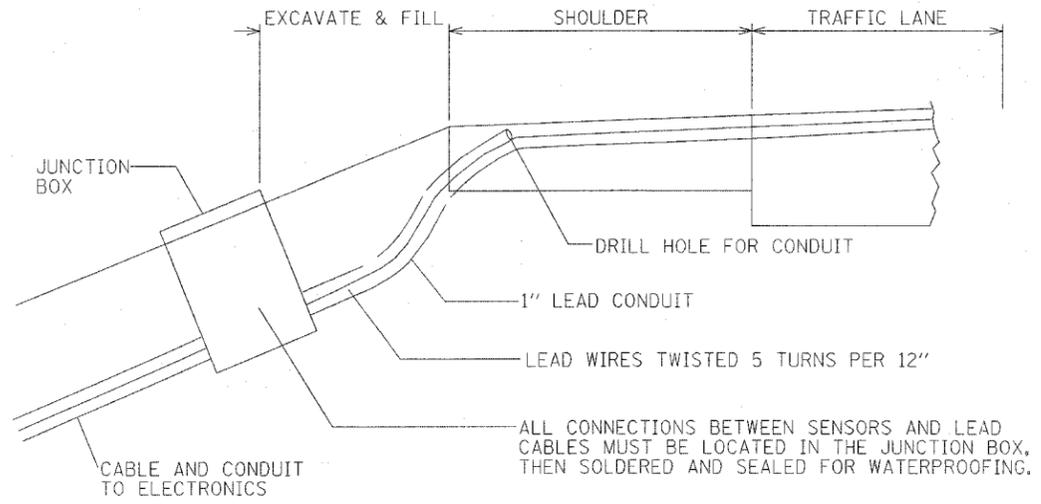
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**WIM EQUIPMENT LAYOUT**  
**MARYVILLE WEIGH STATION**  
 FAI ROUTE 70  
 SECTION: 60-8-1WS  
 COUNTY: MADISON

SCALE: VERT. / HORIZ.  
 DATE / DRAWN BY / CHECKED BY

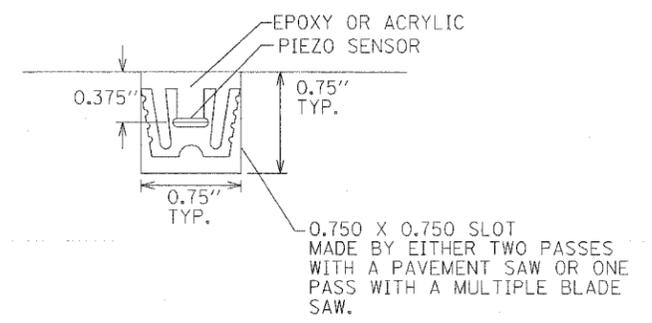
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 USER NAME = p001010

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	60-8-1WS	MADISON	11	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

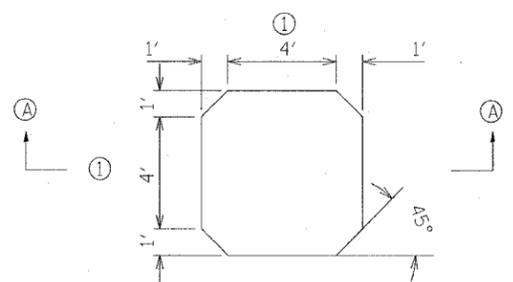
# WEIGH-IN-MOTION LOOP DETAILS



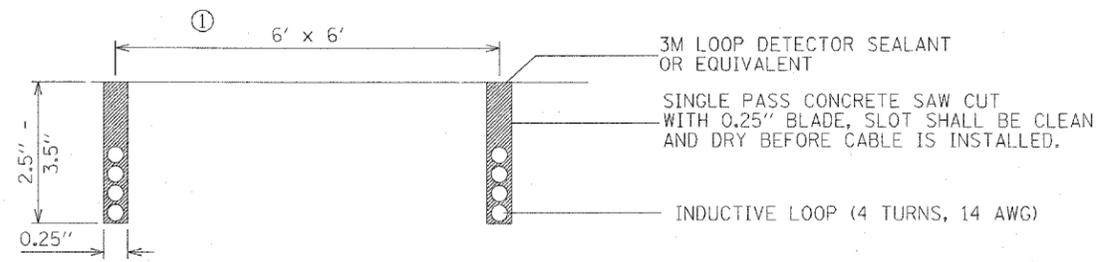
PIEZO SENSOR INSTALLATION DETAIL



LOOP DIMENSION DETAIL



SECTION A - A - LOOP DETAIL



**NOTES:**

- ① 6' x 6' LOOP SHOWN. FOR SIZE, REFER TO LOOP DETAILS ON SITE LAYOUT DRAWING AND SECTION A-A ON THIS DRAWING.

PLOT DATE \* \* \* \* \*  
 FILE NAME \* \* \* \* \*  
 PLOT SCALE \* \* \* \* \*  
 USER NAME \* \* \* \* \*

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS**  
**MARYVILLE WEIGH STATION**  
 FAI ROUTE 70  
 SECTION: 60-8-1WS  
 COUNTY: MADISON  
 SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_

