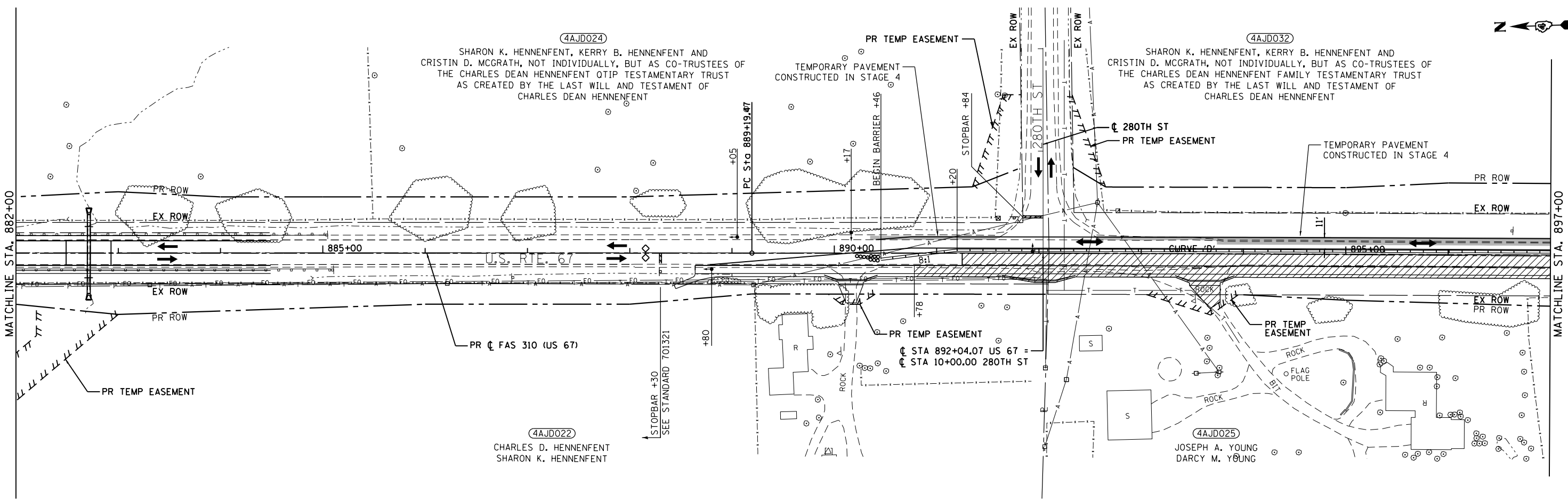
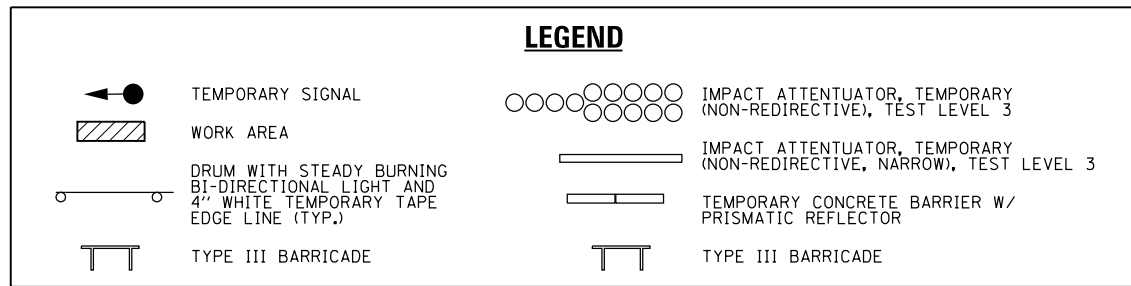
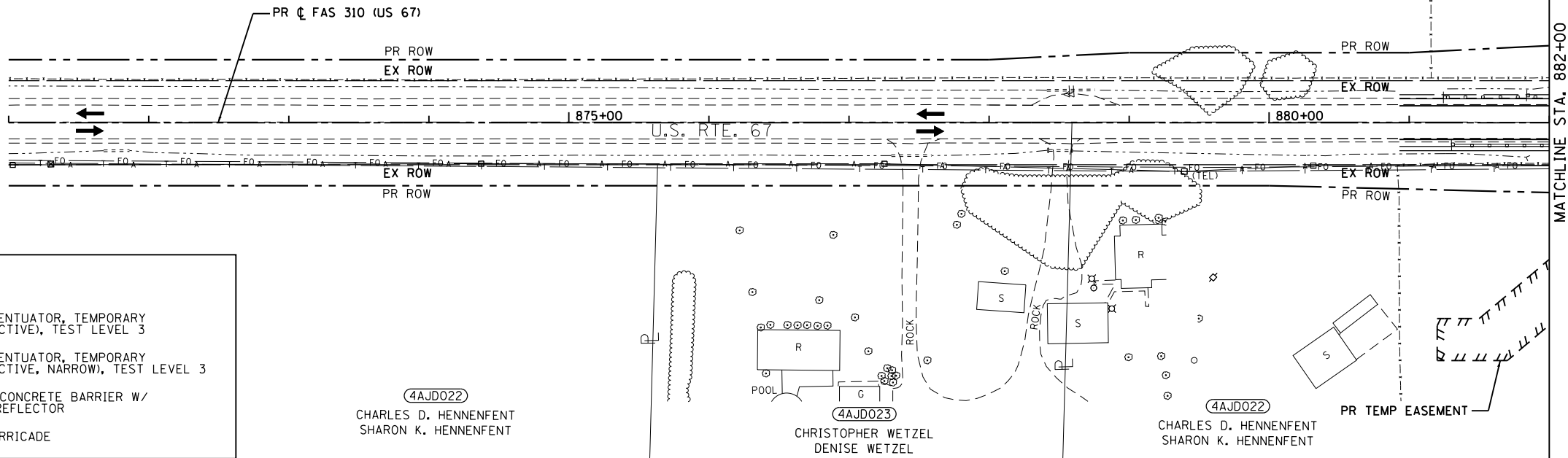


STAGE 5 (PAVEMENT RECONSTRUCTION NEAR 280TH ST AND  
CULVERT REPLACEMENT STA. 898+88.40)

- TRAFFIC:
1. INSTALL SIGNING PER TRAFFIC CONTROL STANDARDS AS REQUIRED.
  2. INSTALL TEMPORARY TRAFFIC SIGNAL.
  3. INSTALL TEMPORARY BARRIER AS SHOWN ON THE STAGE 5 PLANS.
  4. SHIFT TRAFFIC AS SHOWN ON THE STAGE 5 PLANS.

- CONSTRUCTION:
1. ON THE LEFT OF US-67, CONSTRUCT TEMPORARY PAVEMENT FROM STA. 889+96 TO STA. 891+65 AND STA. 892+53 TO STA. 901+91.

4AJD024  
SHARON K. HENNEFENT, KERRY B. HENNEFENT AND  
CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
THE CHARLES DEAN HENNEFENT OTIP TESTAMENTARY TRUST  
AS CREATED BY THE LAST WILL AND TESTAMENT OF  
CHARLES DEAN HENNEFENT



MODEL: Default  
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Civil Engineering Design

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PLOT SCALE = 100,0000' / in.	DRAWN - JRD	REVISED -
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	DATE - 12/9/2020	REVISED -

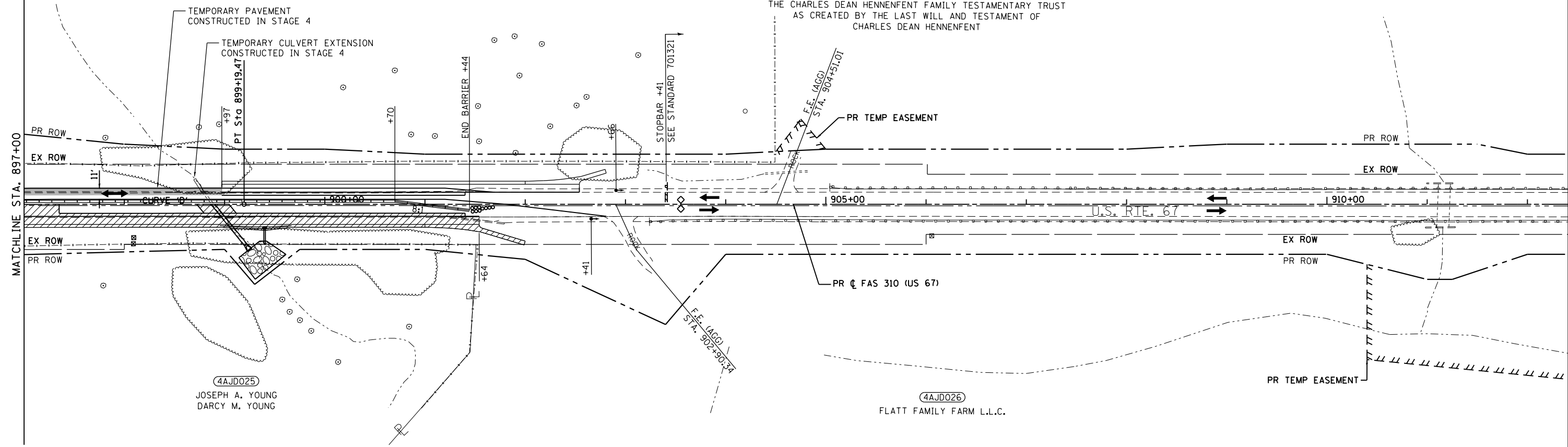
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**STAGE 5 PLAN**  
**(CULVERT REPLACEMENT STA. 882+71.25, PAVEMENT RECONSTRUCTION NEAR 280TH ST AND CULVERT REPLACEMENT STA. 898+88.40)**  
SCALE: 1"=50' SHEET 21 OF 27 SHEETS STA. 867+00 TO STA. 897+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	101
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



(4AJD032)  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT FAMILY TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT



**LEGEND**

- TEMPORARY SIGNAL
- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)
- TYPE III BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER W/ PRISMATIC REFLECTOR
- TYPE III BARRICADE

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USER NAME = zWaters	DESIGNED - JRD	REVISED -
DRAWN - JRD	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 5 PLAN  
 (CULVERT REPLACEMENT STA. 882+71.25, PAVEMENT RECONSTRUCTION  
 NEAR 280TH ST AND CULVERT REPLACEMENT STA. 898+88.40)**

SCALE: 1"=50'    SHEET 22 OF 27 SHEETS    STA. 897+00 TO STA. 912+00

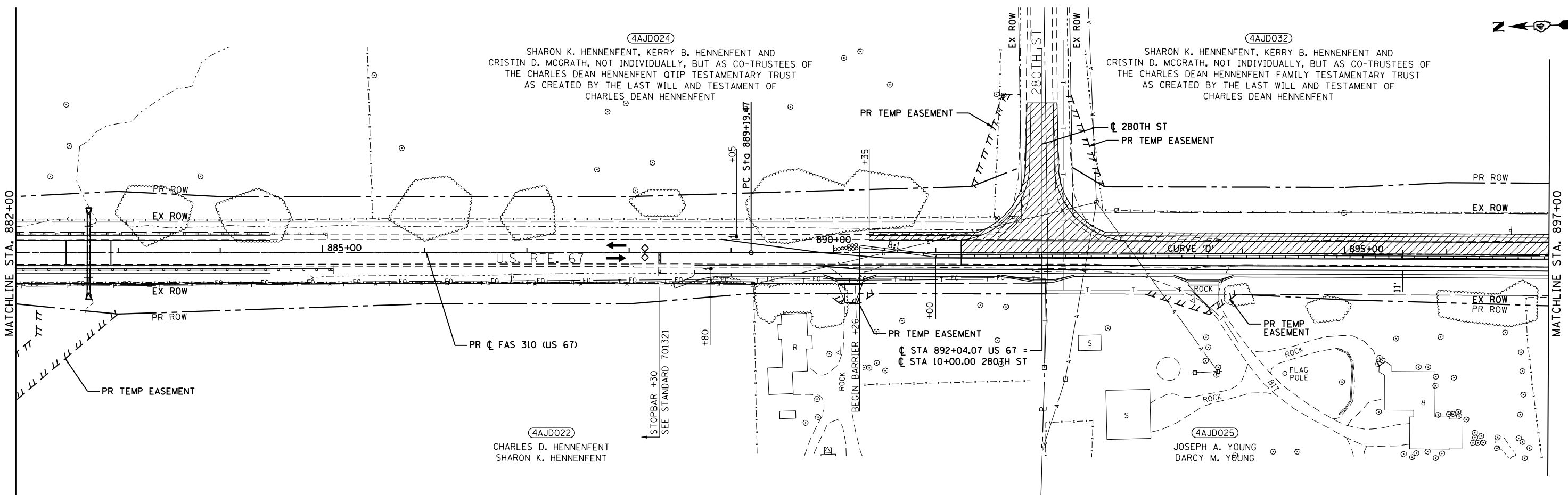
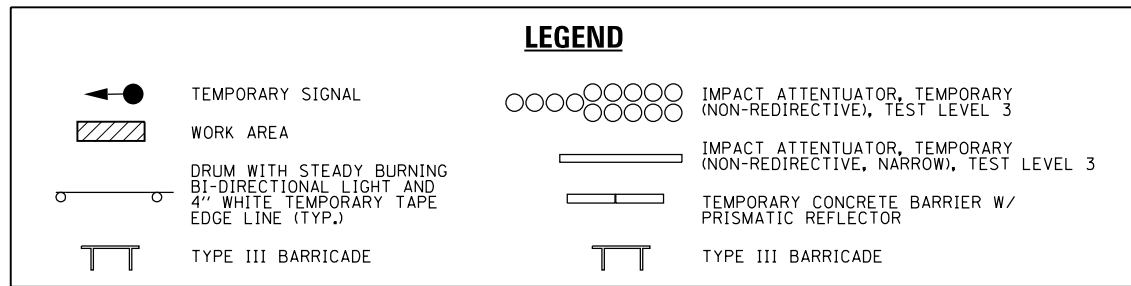
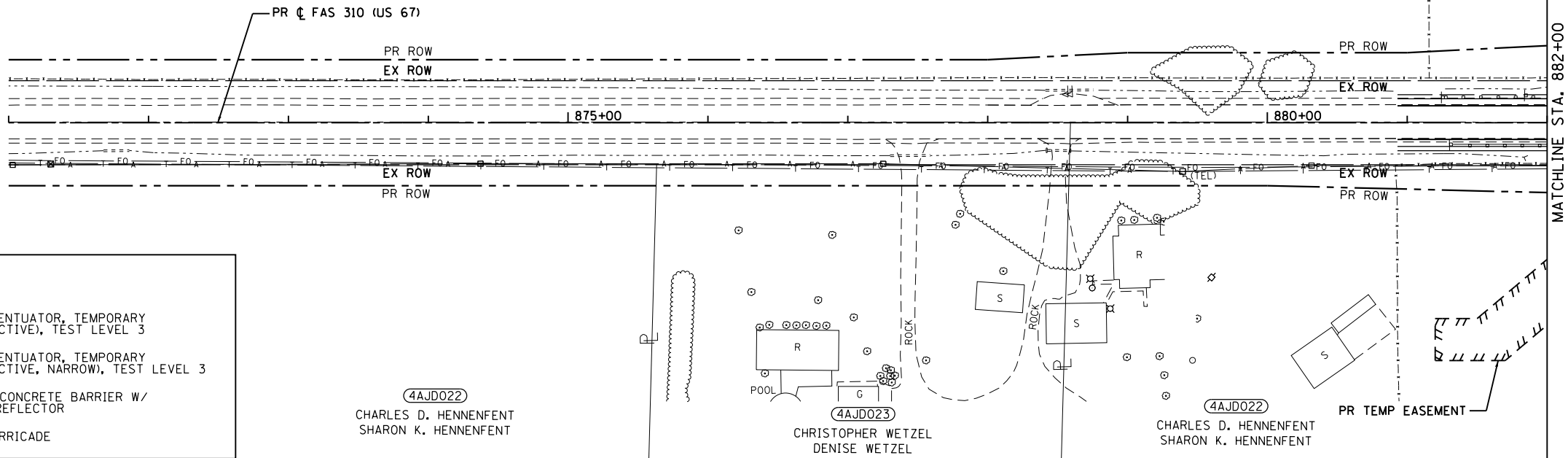
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310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	102
				CONTRACT NO. 68636
ILLINOIS FED. AID PROJECT				

STAGE 6 (PAVEMENT RECONSTRUCTION NEAR 280TH ST AND  
CULVERT REPLACEMENT STA. 898+88.40)

- TRAFFIC:
- INSTALL SIGNING PER TRAFFIC CONTROL STANDARDS AS REQUIRED.
  - TRAFFIC SHALL REMAIN ON ACTUAL DRIVING LANES.

- CONSTRUCTION:
- REMOVE TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 4.
  - ON THE LEFT, INSTALL ALL IMPROVEMENTS FROM STA. 890+35 TO STA. 898+97 AND CONSTRUCT 280TH ST.

(4AJD024)  
SHARON K. HENNFENT, KERRY B. HENNFENT AND  
CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
THE CHARLES DEAN HENNFENT QTIP TESTAMENTARY TRUST  
AS CREATED BY THE LAST WILL AND TESTAMENT OF  
CHARLES DEAN HENNFENT



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Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

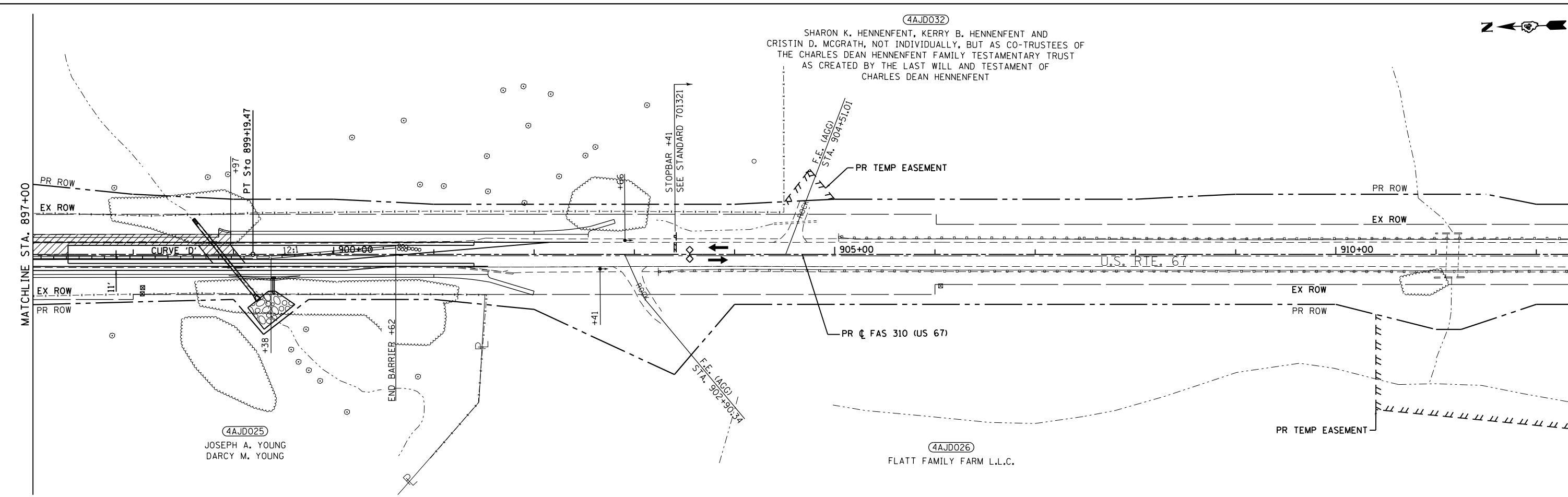
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**STAGE 6 PLAN**  
(CULVERT REPLACEMENT STA. 882+71.25, PAVEMENT RECONSTRUCTION  
NEAR 280TH ST AND CULVERT REPLACEMENT STA. 898+88.40)  
SCALE: 1"=50' SHEET 23 OF 27 SHEETS STA. 867+00 TO STA. 897+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	103
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				









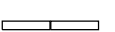

(4AJD032)  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT FAMILY TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT



(4AJD025)  
 JOSEPH A. YOUNG  
 DARCY M. YOUNG

(4AJD026)  
 FLATT FAMILY FARM L.L.C.

**LEGEND**

-  TEMPORARY SIGNAL
-  WORK AREA
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)
-  TYPE III BARRICADE
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER W/ PRISMATIC REFLECTOR
-  TYPE III BARRICADE

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	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE 6 PLAN  
 (CULVERT REPLACEMENT STA. 882 + 71.25, PAVEMENT RECONSTRUCTION  
 NEAR 280TH ST AND CULVERT REPLACEMENT STA. 898 + 88.40)**  
 SCALE: 1"=50' SHEET 24 OF 27 SHEETS STA. 897+00 TO STA. 912+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	104
				CONTRACT NO. 68636
ILLINOIS FED. AID PROJECT				

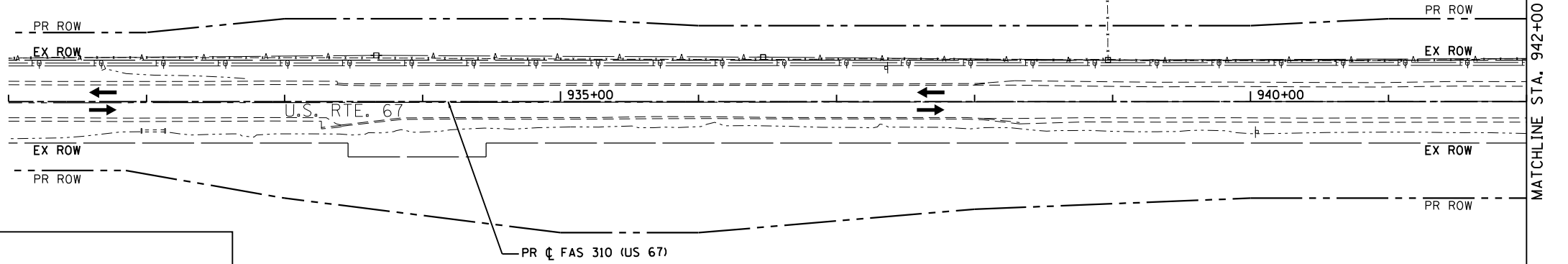


STAGE 1 (PAVEMENT RECONSTRUCTION NEAR 270TH ST)

- TRAFFIC:
1. INSTALL SIGNING PER TRAFFIC CONTROL STANDARDS AS REQUIRED.
  2. TRAFFIC SHALL REMAIN ON ACTUAL DRIVING LANES.

- CONSTRUCTION:
1. ON THE LEFT OF US-67, CONSTRUCT TEMPORARY PAVEMENT FROM STA. 942+00 TO STA. 951+15 FOR STAGE 2 TRAFFIC.

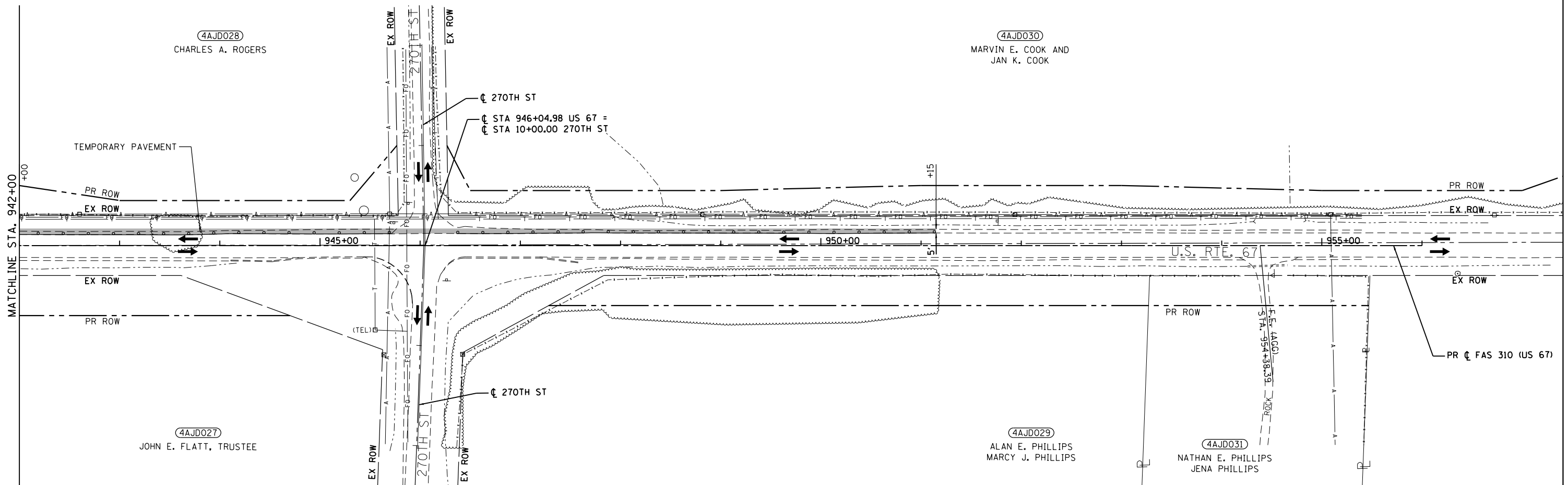
(4AJD028)  
CHARLES A. ROGERS



**LEGEND**

- TEMPORARY SIGNAL
- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)
- TYPE III BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER W/ PRISMATIC REFLECTOR
- TYPE III BARRICADE

(4AJD027)  
JOHN E. FLATT, TRUSTEE



(4AJD028)  
CHARLES A. ROGERS

(4AJD030)  
MARVIN E. COOK AND  
JAN K. COOK

(4AJD027)  
JOHN E. FLATT, TRUSTEE

(4AJD029)  
ALAN E. PHILLIPS  
MARCY J. PHILLIPS

(4AJD031)  
NATHAN E. PHILLIPS  
JENA PHILLIPS

MODEL: D:\efk\... FILE NAME: 211032.01.DWG No. 09017.DDOT US 67.DGN Design: Final Project: 105-0468636-shr-42091-1-08.dgn

**EFK Moen**  
Civil Engineering Design

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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE 1 PLAN  
(PAVEMENT RECONSTRUCTION NEAR 270TH ST)

SCALE: 1"=50' SHEET 25 OF 27 SHEETS STA. 927+00 TO STA. 957+00

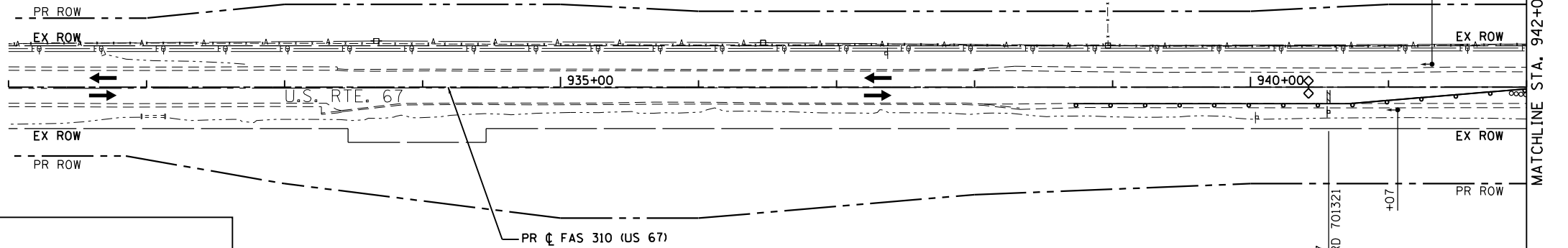
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310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	105
				CONTRACT NO. 68636
		ILLINOIS FED. AID PROJECT		

STAGE 2 (PAVEMENT RECONSTRUCTION NEAR 270TH ST)

- TRAFFIC:
1. INSTALL SIGNING PER TRAFFIC CONTROL STANDARDS AS REQUIRED.
  2. CLOSE 270TH ST (WEST SIDE).
  3. INSTALL TEMPORARY TRAFFIC SIGNAL AND TEMPORARY BARRIER AS SHOWN ON THE STAGE 2 PLANS.
  4. SHIFT TRAFFIC AS SHOWN ON THE STAGE 2 PLANS.

- CONSTRUCTION:
1. ON THE RIGHT, INSTALL ALL IMPROVEMENTS FROM STA. 942+22 TO STA. 951+03 AND CONSTRUCT 270TH ST (WEST SIDE).

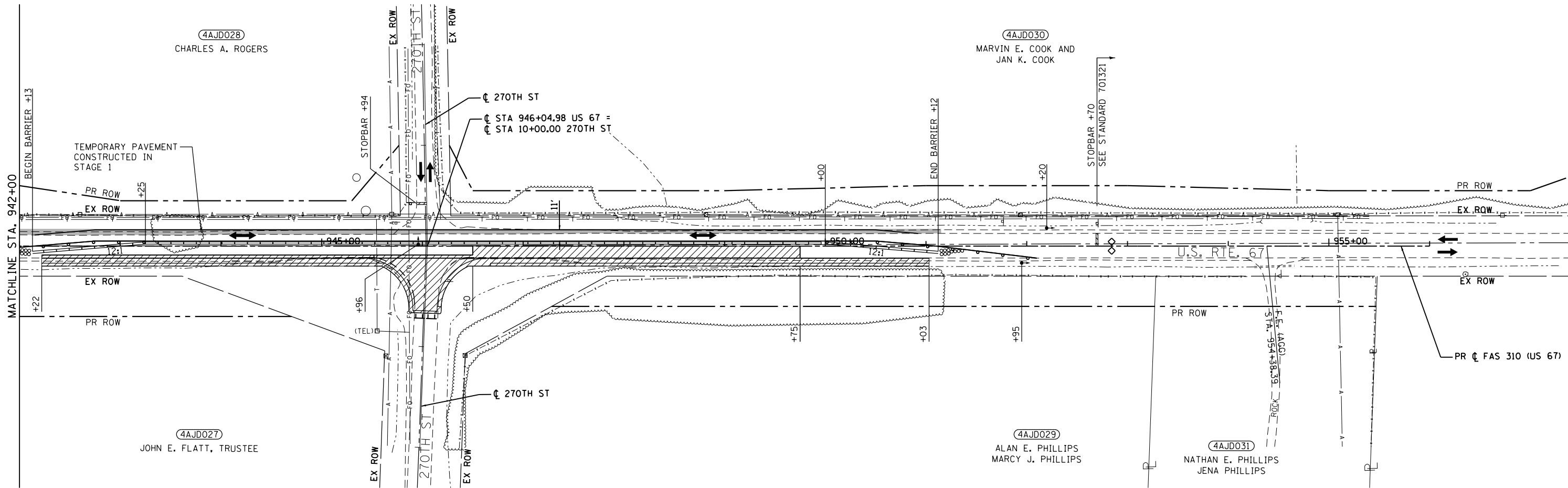
(4AJD028)  
CHARLES A. ROGERS



**LEGEND**

	TEMPORARY SIGNAL		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
	WORK AREA		IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)		TEMPORARY CONCRETE BARRIER W/ PRISMATIC REFLECTOR
	TYPE III BARRICADE		TYPE III BARRICADE

(4AJD027)  
JOHN E. FLATT, TRUSTEE



(4AJD028)  
CHARLES A. ROGERS

(4AJD030)  
MARVIN E. COOK AND  
JAN K. COOK

(4AJD027)  
JOHN E. FLATT, TRUSTEE

(4AJD029)  
ALAN E. PHILLIPS  
MARCY J. PHILLIPS

(4AJD031)  
NATHAN E. PHILLIPS  
JENA PHILLIPS

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	DATE - 12/9/2020	REVISED -

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DEPARTMENT OF TRANSPORTATION

**STAGE 2 PLAN**  
**(PAVEMENT RECONSTRUCTION NEAR 270TH ST)**

SCALE: 1"=50' SHEET 26 OF 27 SHEETS STA. 927+00 TO STA. 957+00

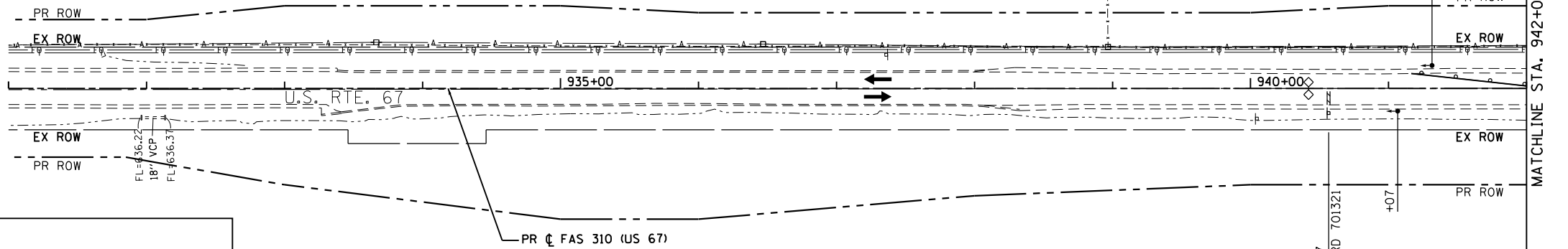
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	106
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

STAGE 3 (PAVEMENT RECONSTRUCTION NEAR 270TH ST)

- TRAFFIC:
1. INSTALL SIGNING PER TRAFFIC CONTROL STANDARDS AS REQUIRED.
  2. CLOSE 270TH ST (EAST SIDE).
  4. INSTALL TEMPORARY BARRIER AS SHOWN ON THE STAGE 3 PLANS.
  5. SHIFT TRAFFIC AS SHOWN ON THE STAGE 3 PLANS.

- CONSTRUCTION:
1. REMOVE TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 1.
  2. ON THE LEFT, INSTALL ALL IMPROVEMENTS FROM STA. 942+00 TO STA. 951+15 AND CONSTRUCT 270TH ST (EAST SIDE).

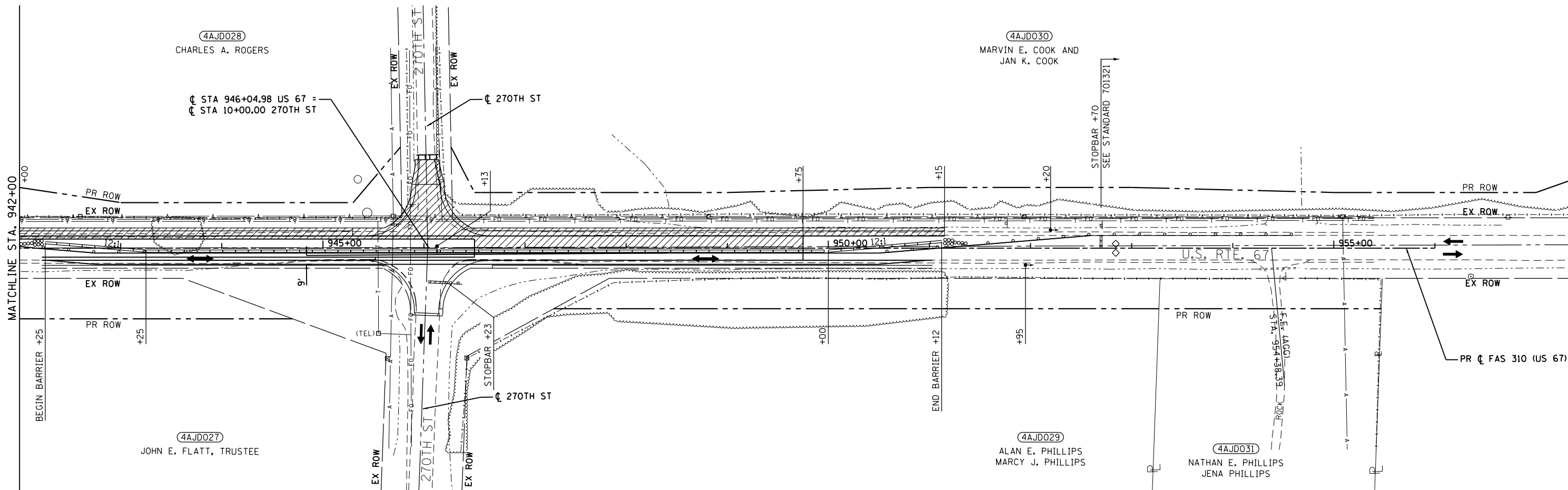
(4AJD028)  
CHARLES A. ROGERS



**LEGEND**

- TEMPORARY SIGNAL
- WORK AREA
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT AND 4" WHITE TEMPORARY TAPE EDGE LINE (TYP.)
- TYPE III BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER W/ PRISMATIC REFLECTOR
- TYPE III BARRICADE

(4AJD027)  
JOHN E. FLATT, TRUSTEE



(4AJD028)  
CHARLES A. ROGERS

☐ STA 946+04.98 US 67 =  
☐ STA 10+00.00 270TH ST

(4AJD030)  
MARVIN E. COOK AND  
JAN K. COOK

(4AJD027)  
JOHN E. FLATT, TRUSTEE

(4AJD029)  
ALAN E. PHILLIPS  
MARCY J. PHILLIPS

(4AJD031)  
NATHAN E. PHILLIPS  
JENA PHILLIPS

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Civil Engineering Design

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	DATE - 12/9/2020	REVISED -

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DEPARTMENT OF TRANSPORTATION

**STAGE 3 PLAN**  
**(PAVEMENT RECONSTRUCTION NEAR 270TH ST)**

SCALE: 1"=50' SHEET 27 OF 27 SHEETS STA. 927+00 TO STA. 957+00

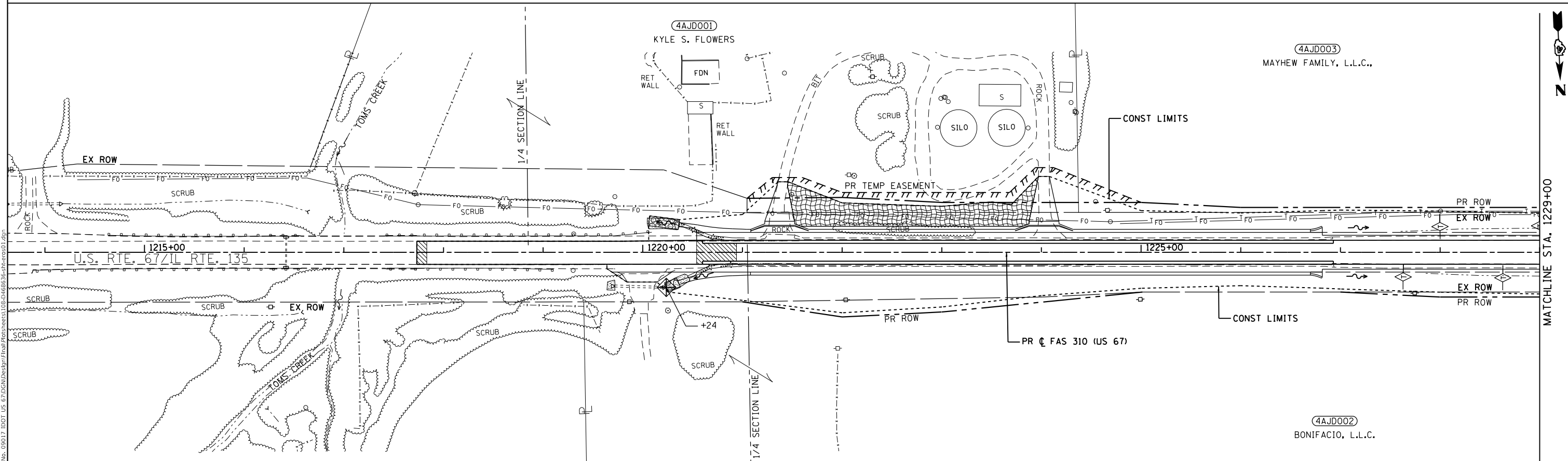
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310	101W-1, RS-2, 28W-1, RS-5	WARREN/MERCER	234	107
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

**TEMPORARY EROSION CONTROL**

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK  
(SEE SCHEDULES FOR LOCATIONS)

**PERMANENT EROSION CONTROL**

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4  
OR STONE RIPRAP, CLASS A3



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Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
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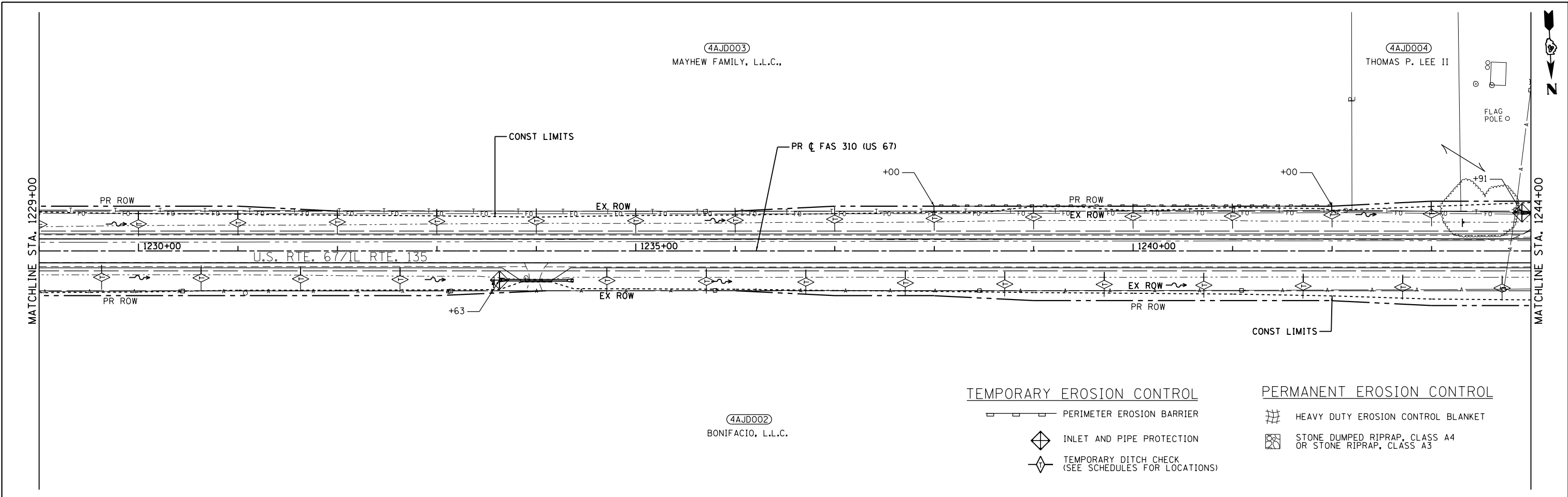
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

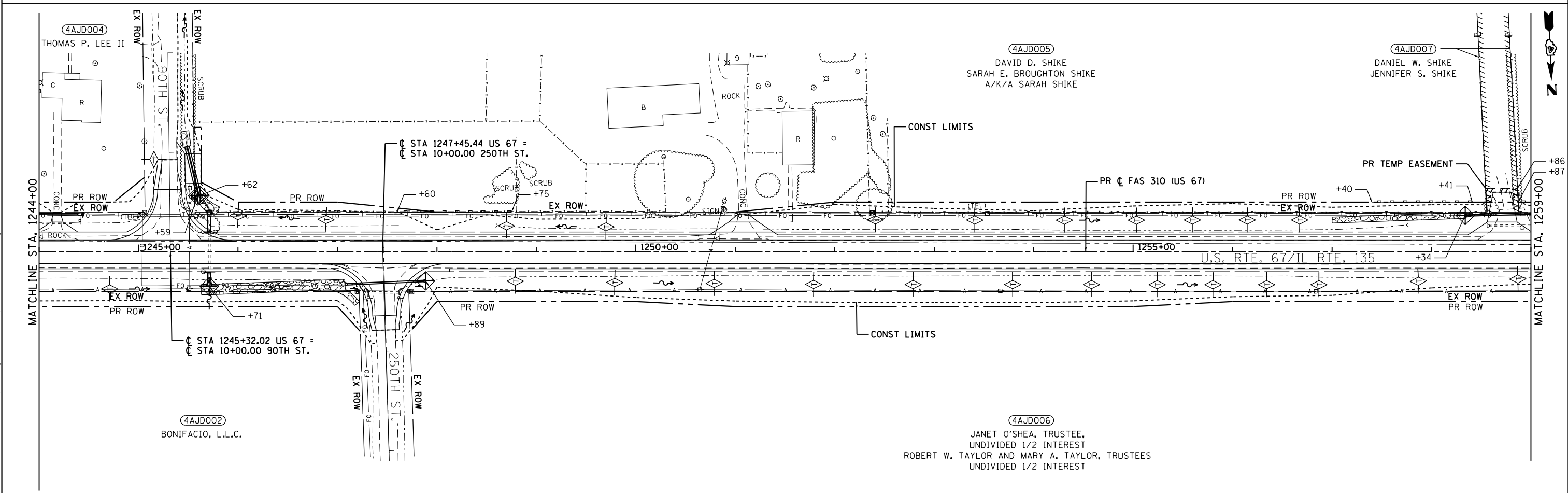
SCALE: 1"=50'    SHEET 1 OF 10 SHEETS    STA. 1214+00 TO STA. 1229+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	108
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 1229+00



- TEMPORARY EROSION CONTROL**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)
- PERMANENT EROSION CONTROL**
- HEAVY DUTY EROSION CONTROL BLANKET
  - STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3



**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
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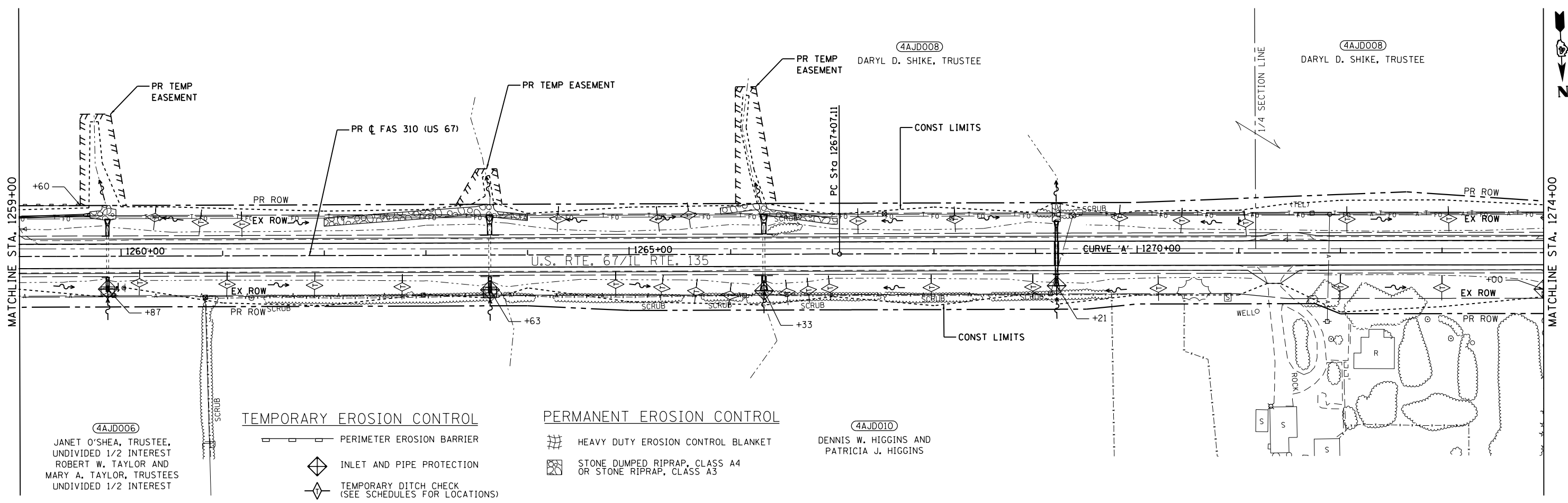
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

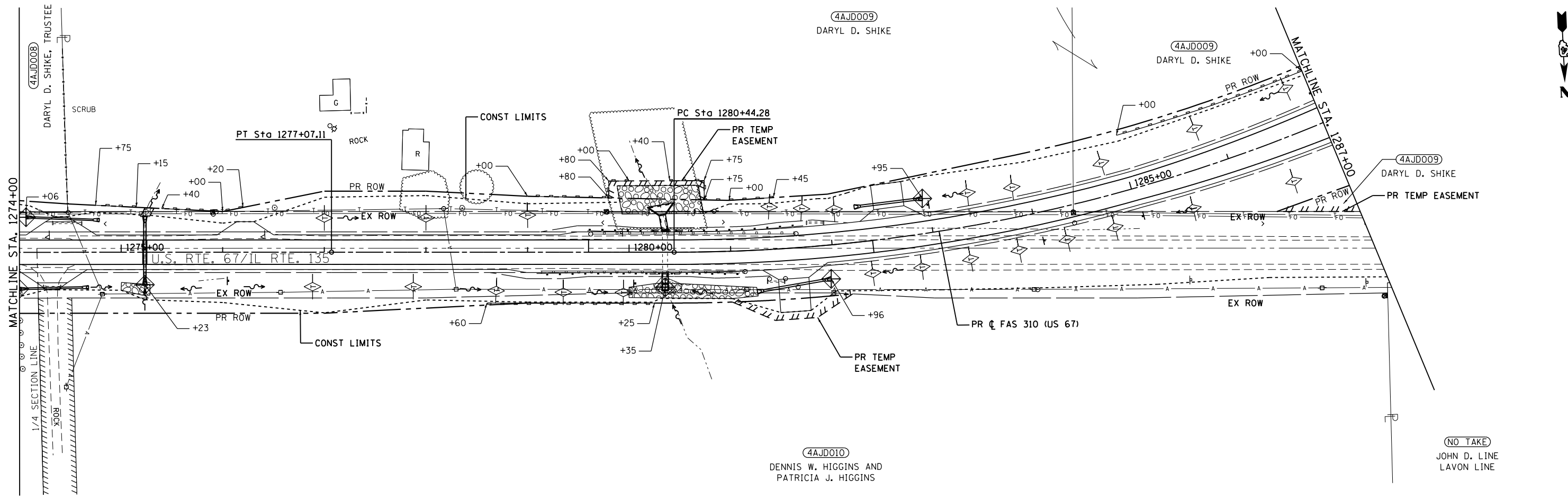
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	109
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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- TEMPORARY EROSION CONTROL**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)
- PERMANENT EROSION CONTROL**
- HEAVY DUTY EROSION CONTROL BLANKET
  - STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3



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**EFK Moen**  
Civil Engineering Design

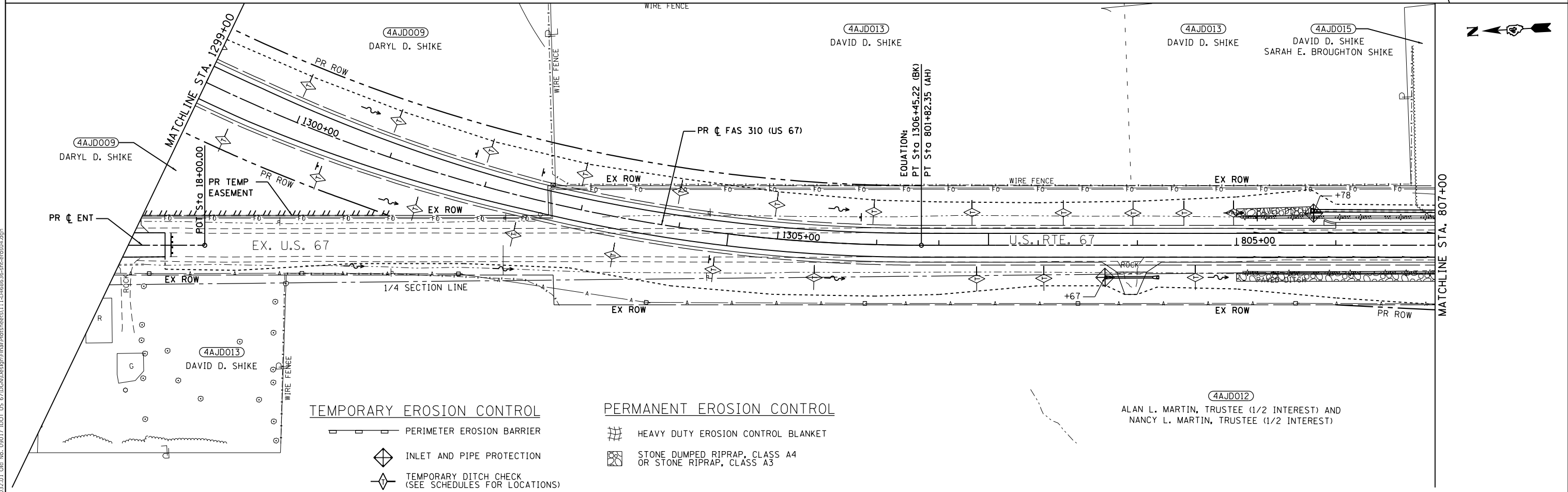
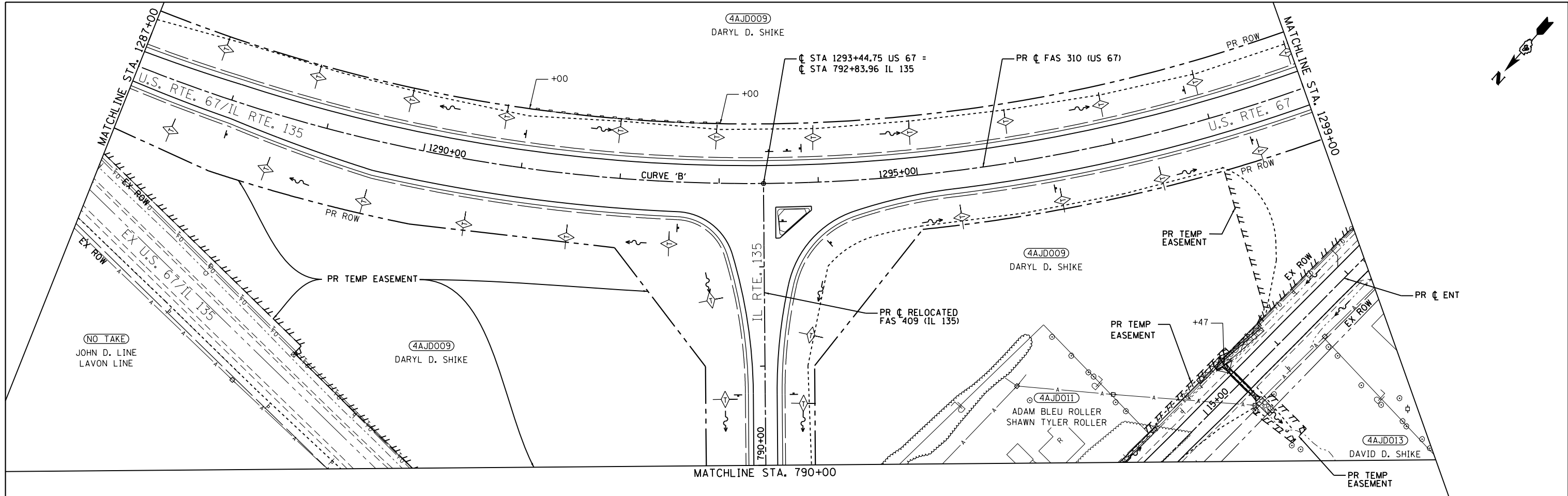
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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=50'    SHEET 3 OF 10 SHEETS    STA. 1259+00 TO STA. 1287+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	110
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



- |                                  |  |                                  |  |
|----------------------------------|--|----------------------------------|--|
| <b>TEMPORARY EROSION CONTROL</b> |  | <b>PERMANENT EROSION CONTROL</b> |  |
|                                  | PERIMETER EROSION BARRIER                              |                                  | HEAVY DUTY EROSION CONTROL BLANKET                         |
|                                  | INLET AND PIPE PROTECTION                              |                                  | STONE DUMPED RIPRAP, CLASS A4<br>OR STONE RIPRAP, CLASS A3 |
|                                  | TEMPORARY DITCH CHECK<br>(SEE SCHEDULES FOR LOCATIONS) |                                  |  |

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**EFK Moen**  
Civil Engineering Design

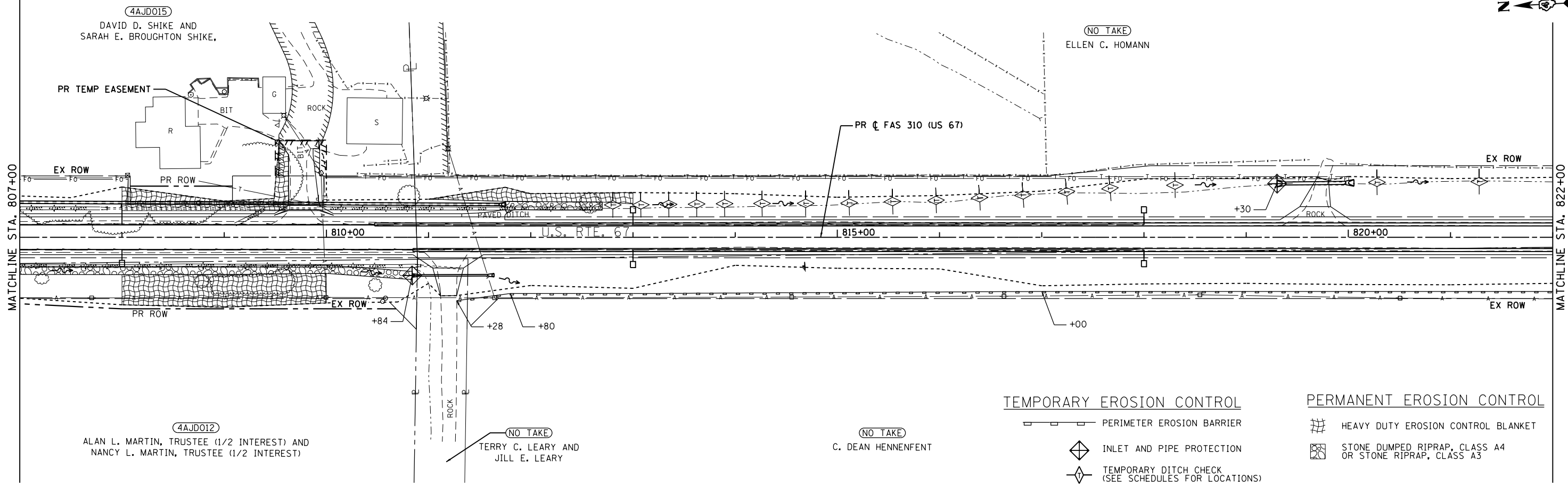
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PLOT SCALE = 100,0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=50'    SHEET 4 OF 10 SHEETS    STA. 1287+00 TO STA. 807+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	111
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

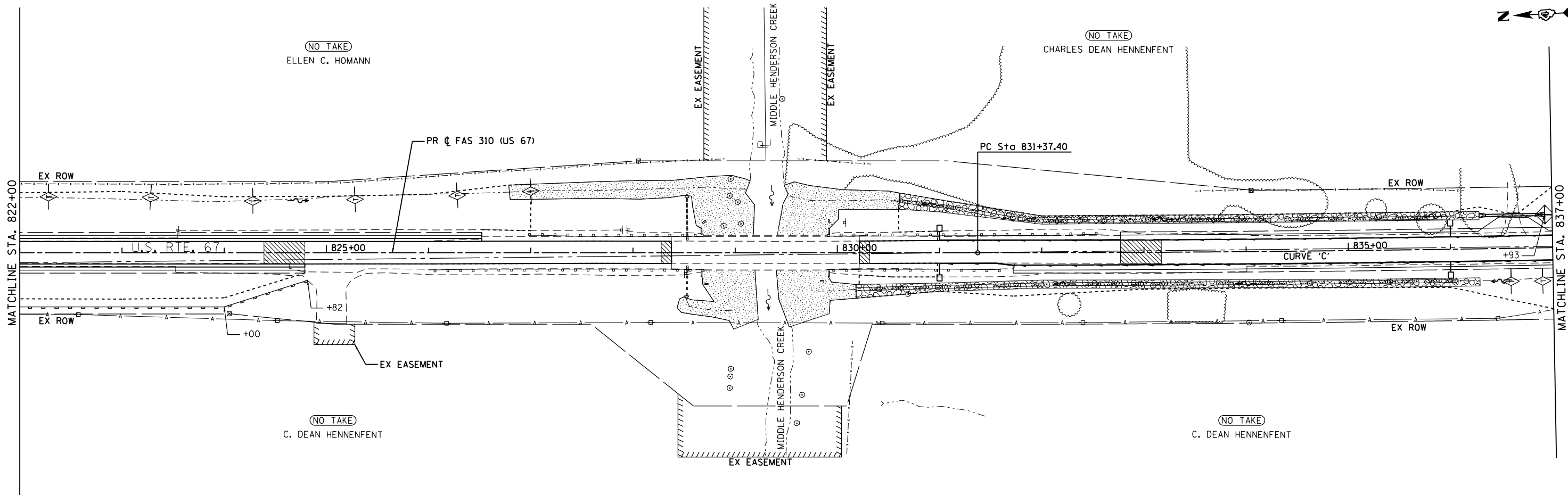


**TEMPORARY EROSION CONTROL**

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)

**PERMANENT EROSION CONTROL**

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3



MODEL: D:\efk\112-0468636-eh-eroc05.dgn  
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**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

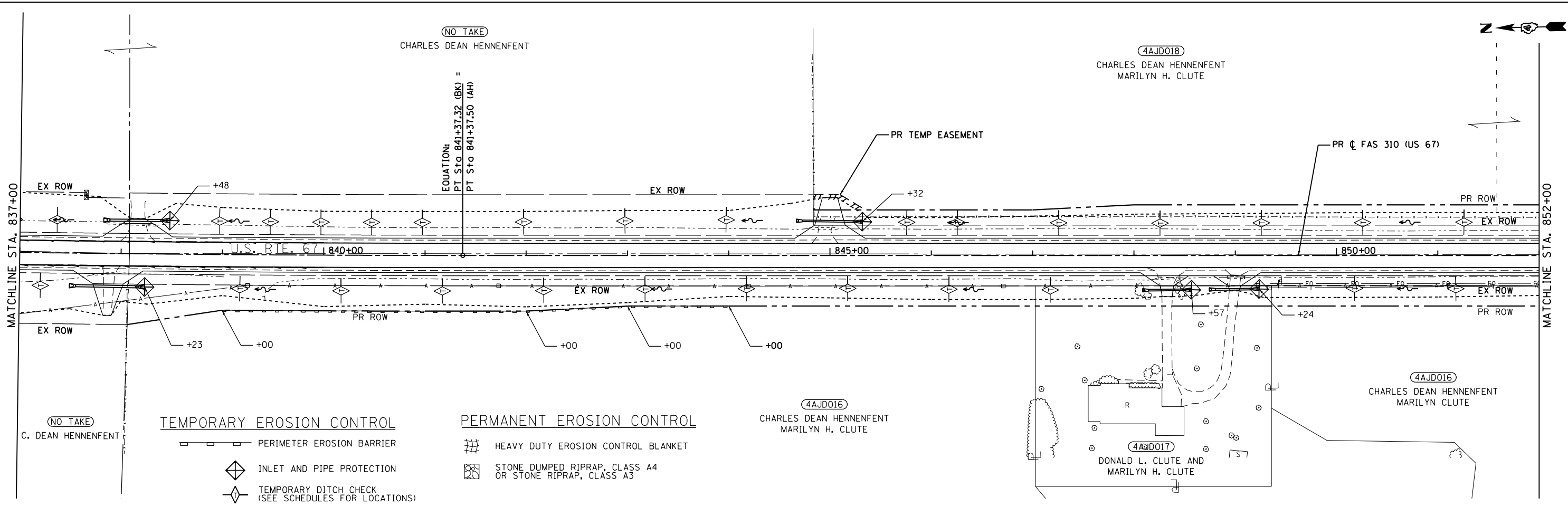
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

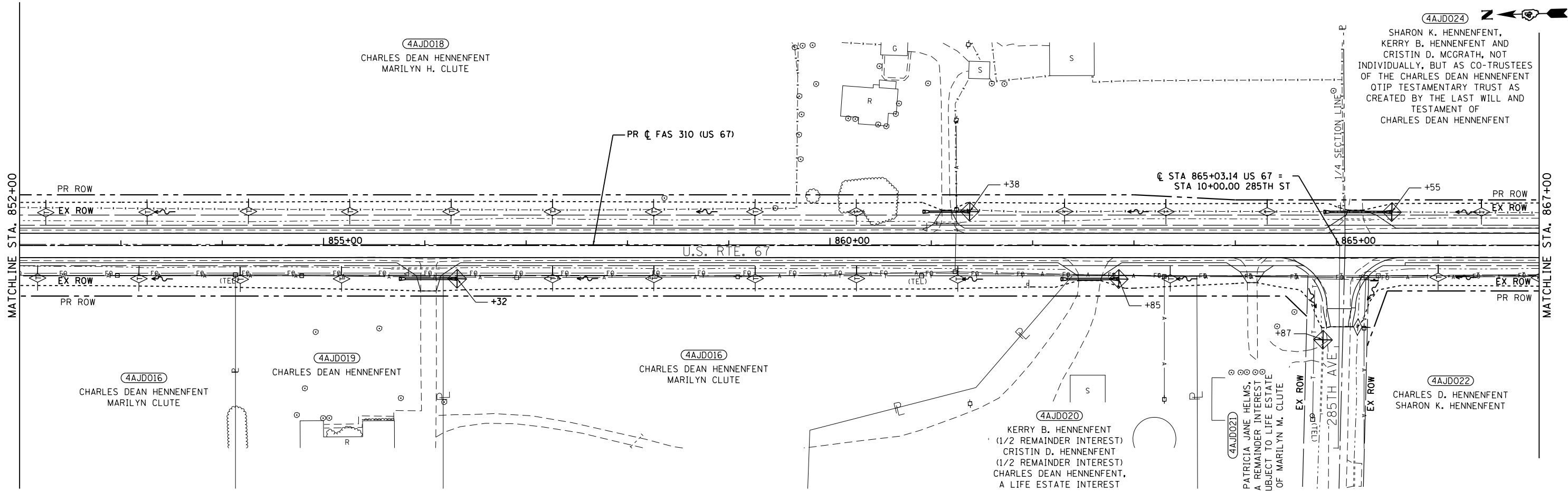
SCALE: 1"=50'    SHEET 5 OF 10 SHEETS    STA. 807+00 TO STA. 837+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	112
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				





- TEMPORARY EROSION CONTROL**
- PERIMETER EROSION BARRIER
  - INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)
- PERMANENT EROSION CONTROL**
- HEAVY DUTY EROSION CONTROL BLANKET
  - STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3



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**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=50'    SHEET 6 OF 10 SHEETS    STA. 837+00 TO STA. 867+00

F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 113
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68636	

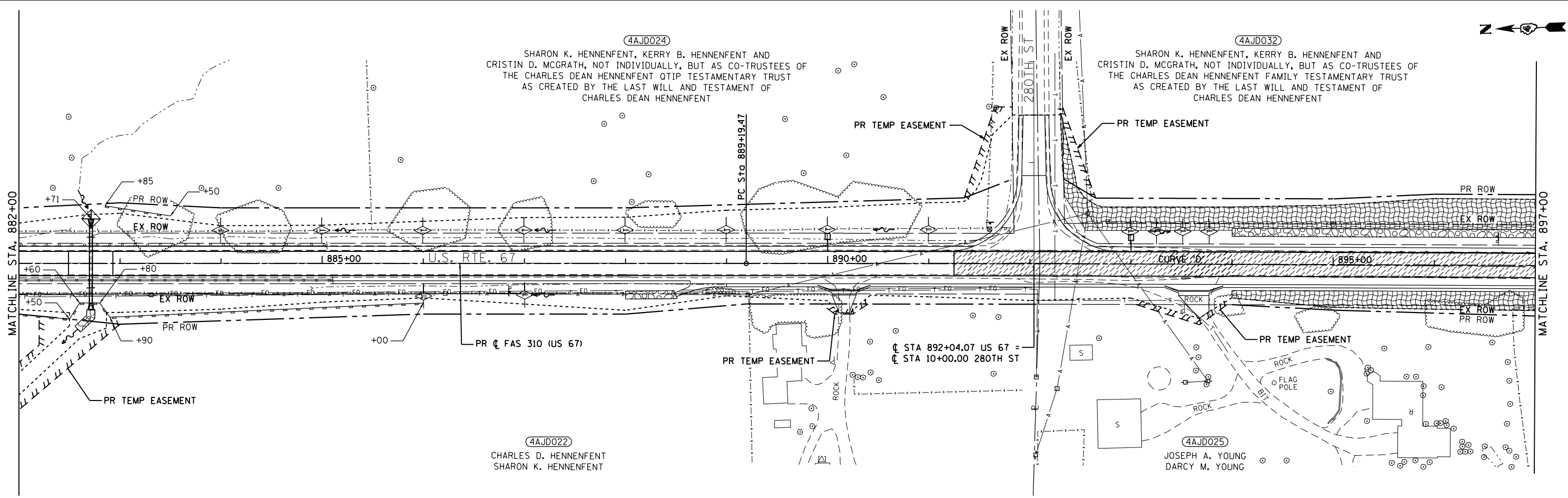
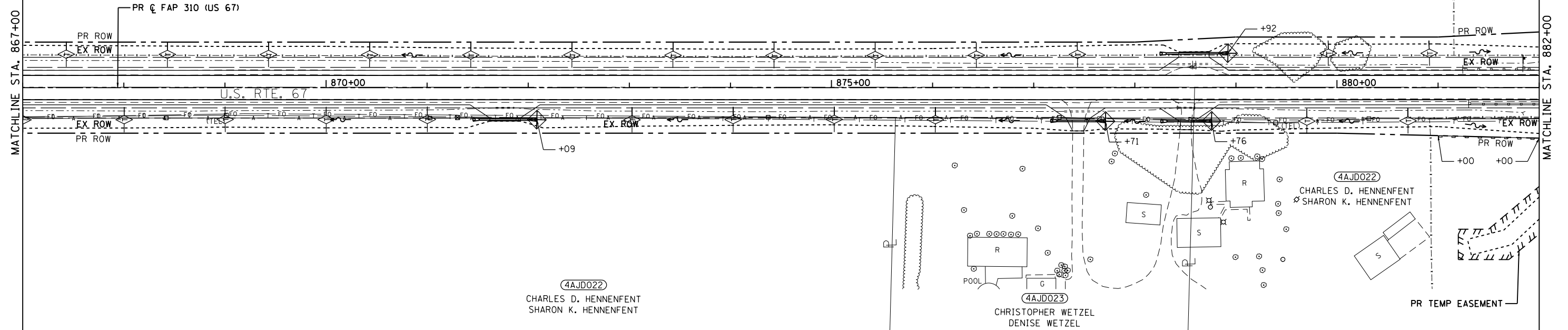
TEMPORARY EROSION CONTROL

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)

PERMANENT EROSION CONTROL

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3

4AJD024  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT QTIP TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT



MODEL: D:\efk\114-0468636-eh-er02.dwg  
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**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**  
 SCALE: 1"=50'  
 SHEET 7 OF 10 SHEETS  
 STA. 867+00 TO STA. 897+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	114
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

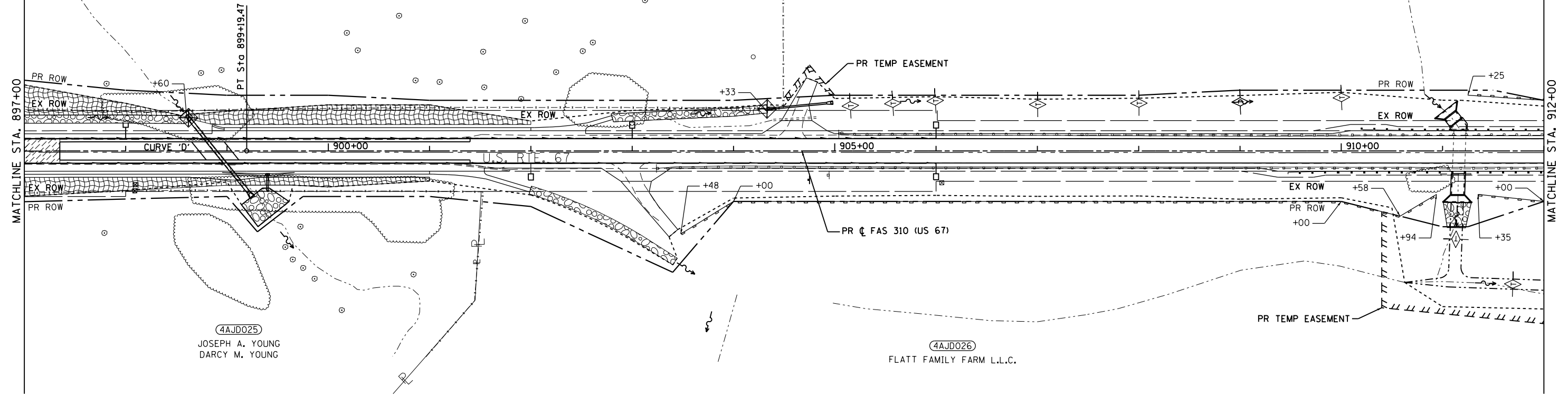
4AJD032  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT FAMILY TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT

TEMPORARY EROSION CONTROL

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)

PERMANENT EROSION CONTROL

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3

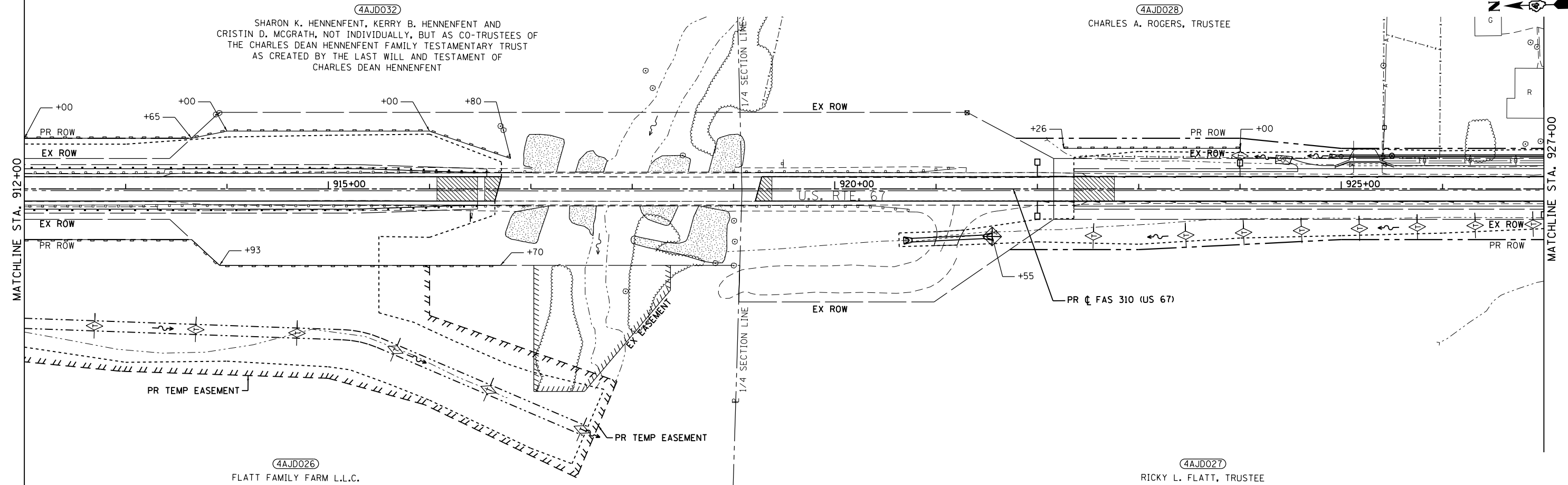


4AJD025  
 JOSEPH A. YOUNG  
 DARCY M. YOUNG

4AJD026  
 FLATT FAMILY FARM L.L.C.

4AJD032  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT FAMILY TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT

4AJD028  
 CHARLES A. ROGERS, TRUSTEE



4AJD026  
 FLATT FAMILY FARM L.L.C.

4AJD027  
 RICKY L. FLATT, TRUSTEE

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**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

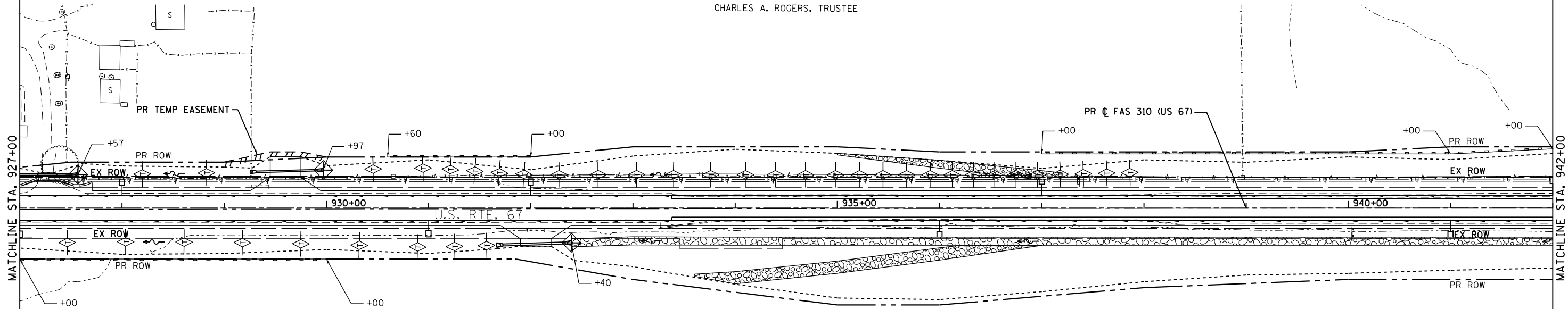
EROSION AND SEDIMENT CONTROL

SCALE: 1"=50' SHEET 8 OF 10 SHEETS STA. 897+00 TO STA. 927+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	115
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



4AJD028  
CHARLES A. ROGERS, TRUSTEE



**TEMPORARY EROSION CONTROL**

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)

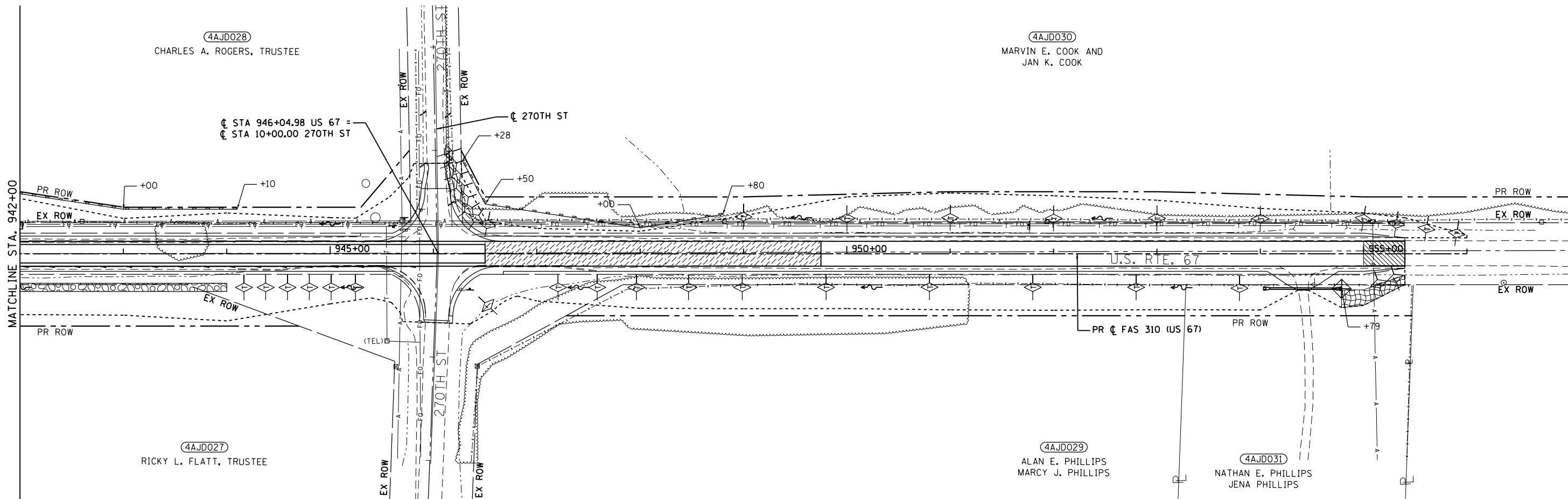
**PERMANENT EROSION CONTROL**

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3

4AJD027  
RICKY L. FLATT, TRUSTEE

4AJD028  
CHARLES A. ROGERS, TRUSTEE

4AJD030  
MARVIN E. COOK AND  
JAN K. COOK



4AJD027  
RICKY L. FLATT, TRUSTEE

4AJD029  
ALAN E. PHILLIPS  
MARCY J. PHILLIPS

4AJD031  
NATHAN E. PHILLIPS  
JENA PHILLIPS

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**EFK Moen**  
Civil Engineering Design

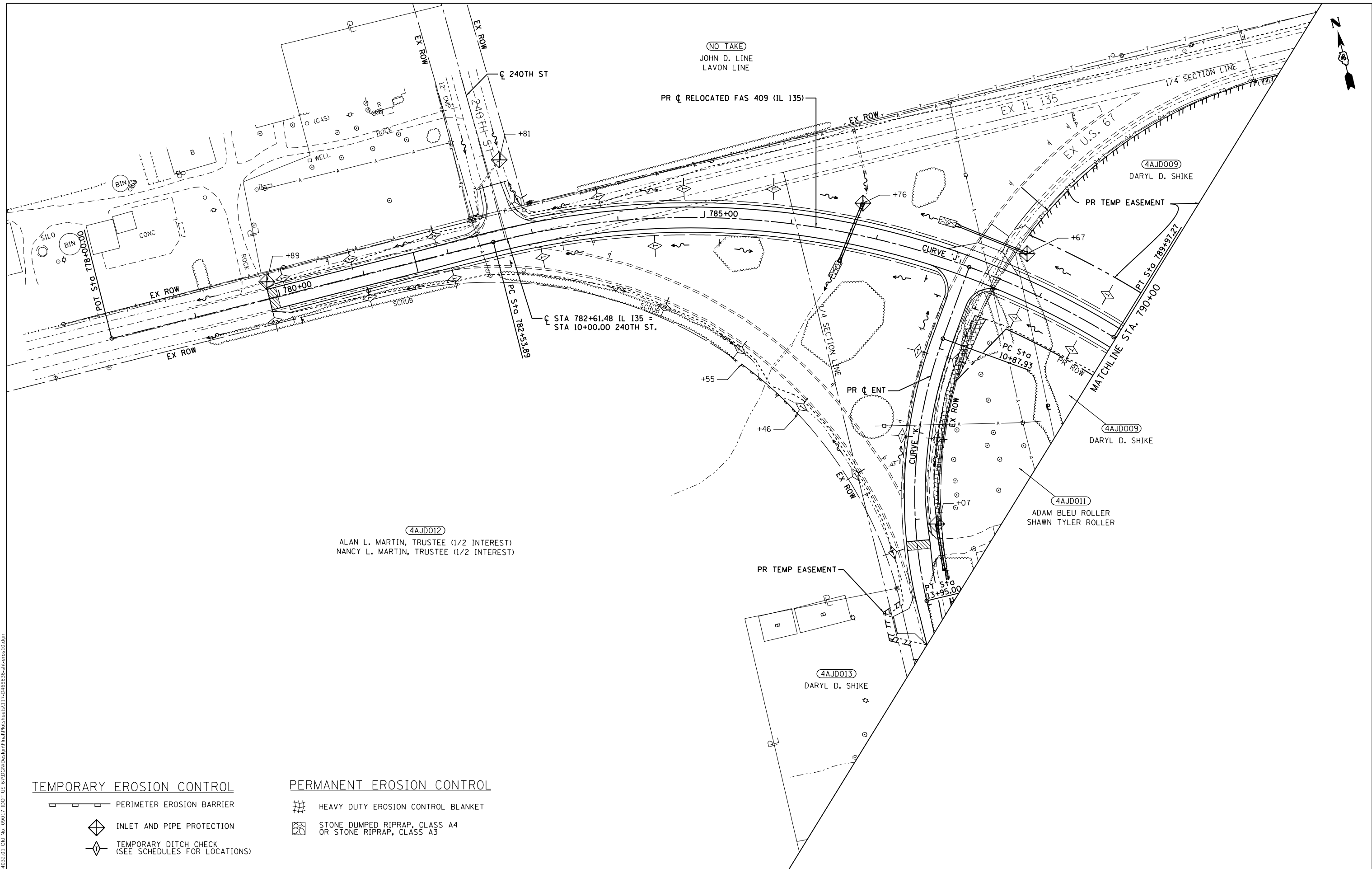
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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=50' SHEET 9 OF 10 SHEETS STA. 927+00 TO STA. 957+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	116
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



(NO TAKE)  
JOHN D. LINE  
LAVON LINE

PR & RELOCATED FAS 409 (IL 135)

(4AJD009)  
DARYL D. SHIKE

PR TEMP EASEMENT

(4AJD009)  
DARYL D. SHIKE

(4AJD011)  
ADAM BLEU ROLLER  
SHAWN TYLER ROLLER

(4AJD012)  
ALAN L. MARTIN, TRUSTEE (1/2 INTEREST)  
NANCY L. MARTIN, TRUSTEE (1/2 INTEREST)

(4AJD013)  
DARYL D. SHIKE

**TEMPORARY EROSION CONTROL**

- PERIMETER EROSION BARRIER
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK (SEE SCHEDULES FOR LOCATIONS)

**PERMANENT EROSION CONTROL**

- HEAVY DUTY EROSION CONTROL BLANKET
- STONE DUMPED RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A3

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**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - SJF	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

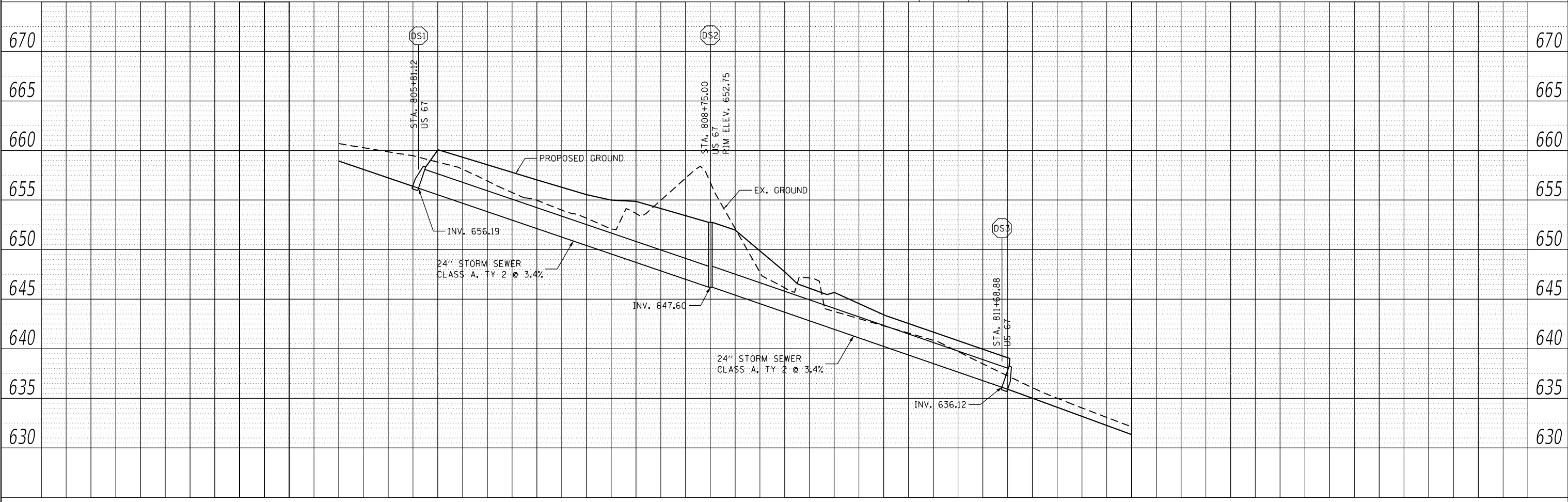
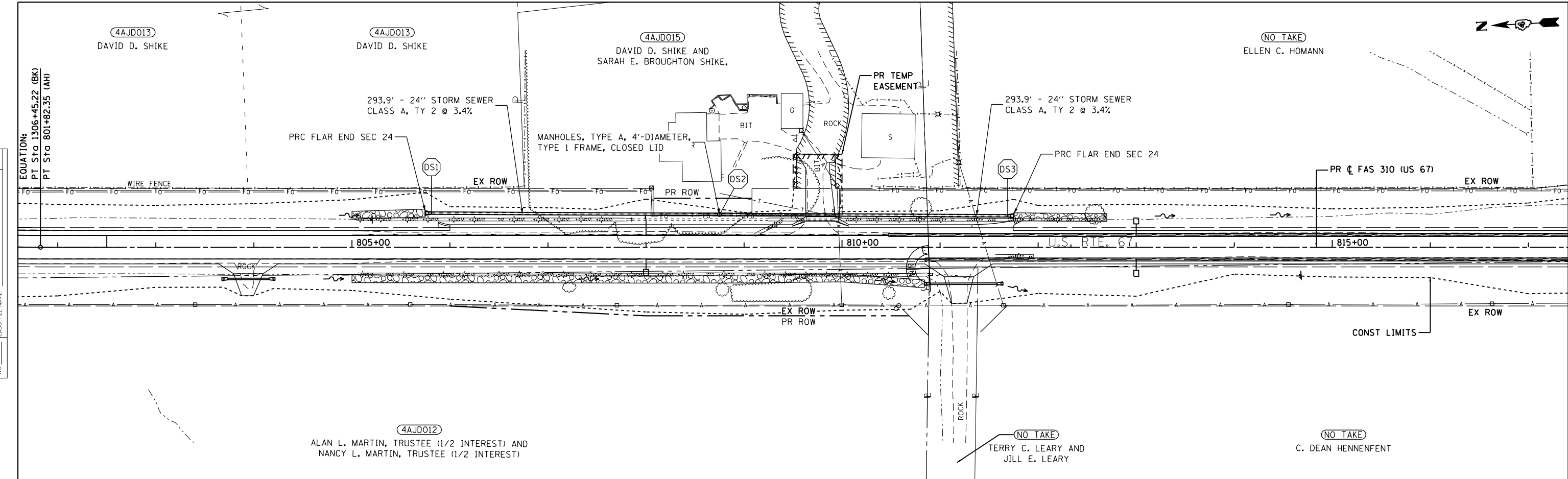
**EROSION AND SEDIMENT CONTROL**

SCALE: 1"=50' SHEET 10 OF 10 SHEETS STA. 778+00 TO STA. 790+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	117
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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	GRADES CHECKED	
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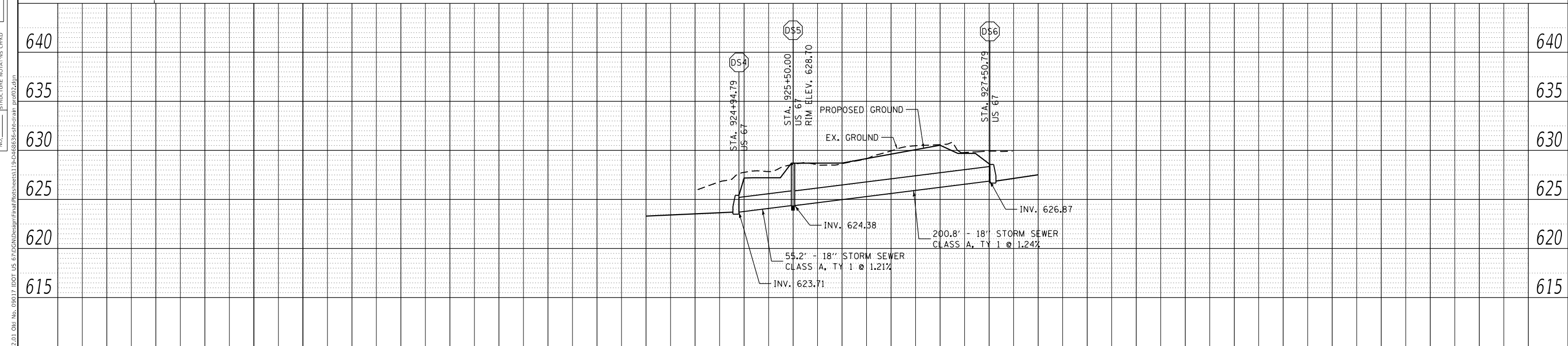
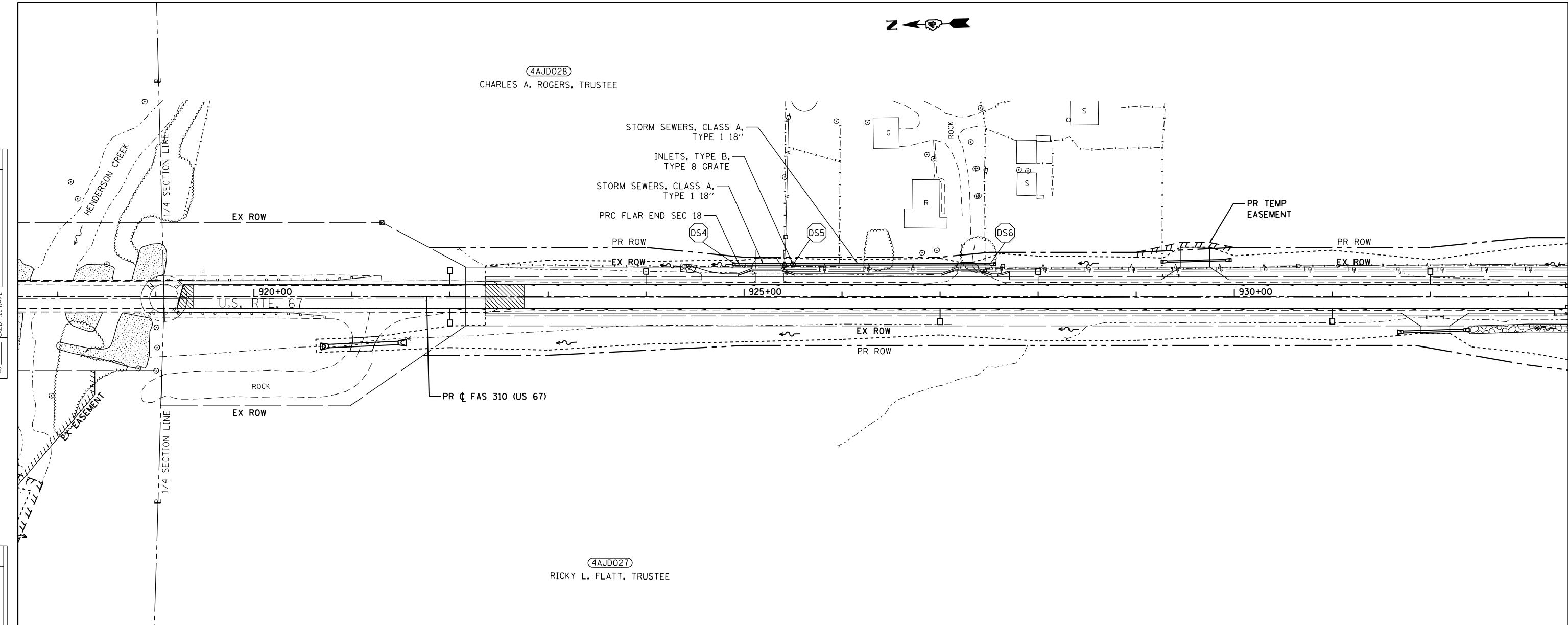
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	PLOTTED	
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	NO.	



<b>EFK Moen</b> Civil Engineering Design	USER NAME = zWaters	DESIGNED - MYS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED DRAINAGE</b> <b>PLAN &amp; PROFILE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED - SLD	REVISED -			310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	118
PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -	REVISED -	SCALE: 1"=50'	SHEET 1 OF 3 SHEETS	STA. 807+00	TO STA. 822+00	CONTRACT NO. 68636		
						ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - MSK	REVISED -
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED DRAINAGE  
PLAN & PROFILE**

SCALE: 1"=50'      SHEET 2 OF 3 SHEETS      STA. 912+00 TO STA. 927+00

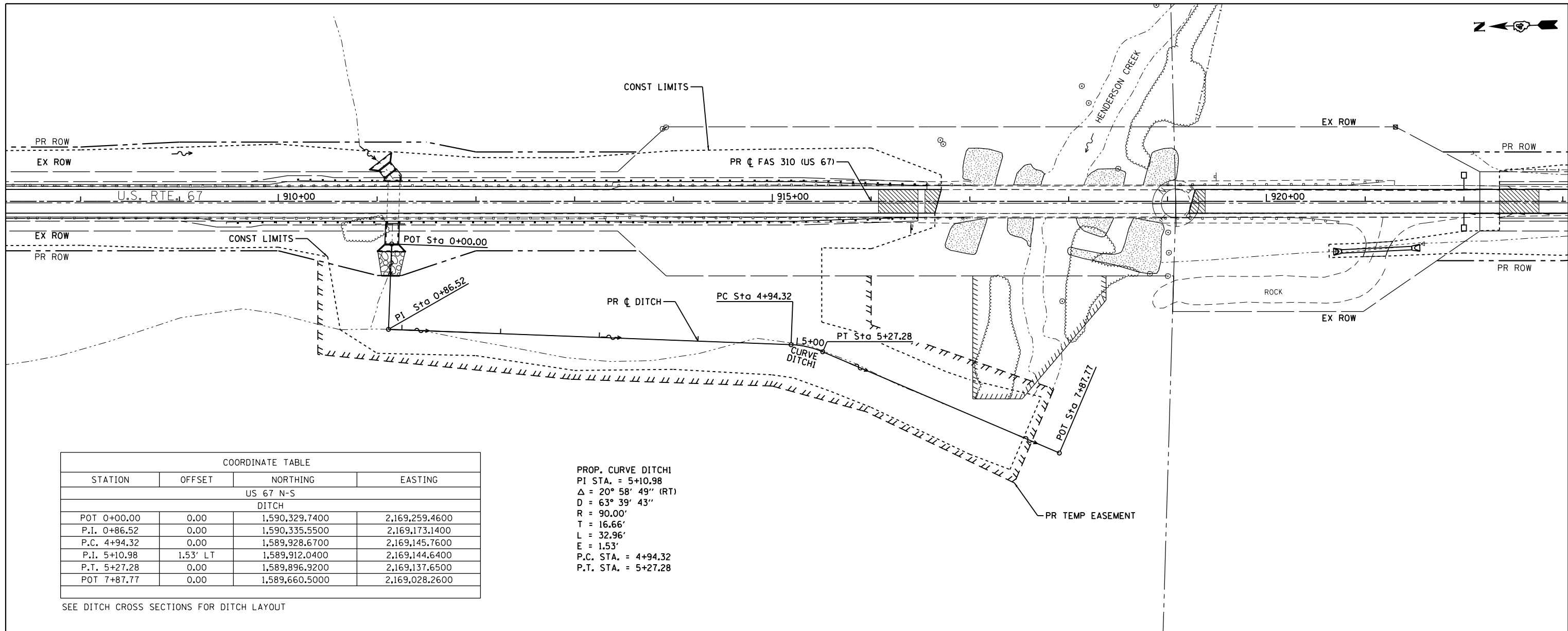
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310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	119
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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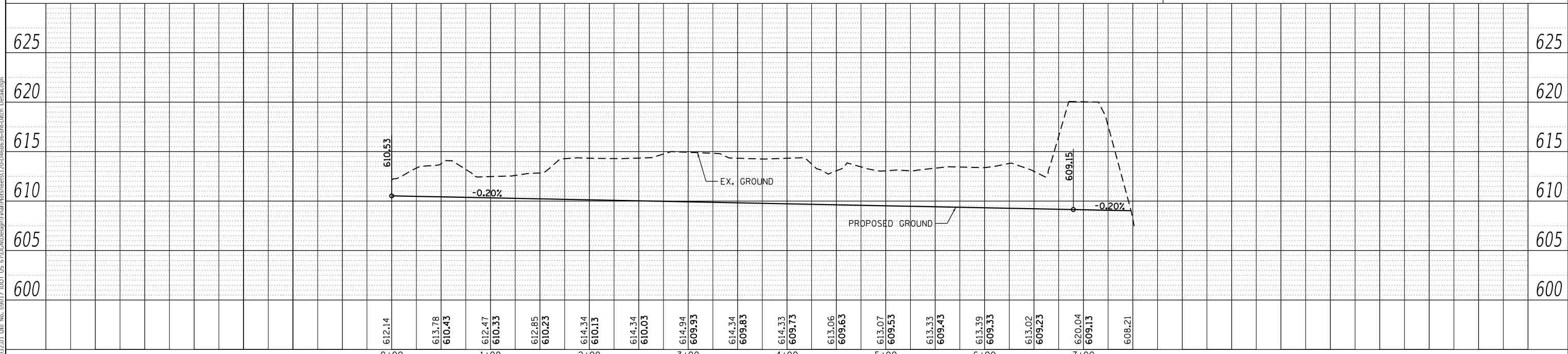
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	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
US 67 N-S			
DITCH			
POT 0+00.00	0.00	1,590,329.7400	2,169,259.4600
P.I. 0+86.52	0.00	1,590,335.5500	2,169,173.1400
P.C. 4+94.32	0.00	1,589,928.6700	2,169,145.7600
P.L. 5+10.98	1.53' LT	1,589,912.0400	2,169,144.6400
P.T. 5+27.28	0.00	1,589,896.9200	2,169,137.6500
POT 7+87.77	0.00	1,589,660.5000	2,169,028.2600

PROP. CURVE DITCH  
 PI STA. = 5+10.98  
 $\Delta = 20^\circ 58' 49''$  (RT)  
 $D = 63^\circ 39' 43''$   
 $R = 90.00'$   
 $T = 16.66'$   
 $L = 32.96'$   
 $E = 1.53'$   
 P.C. STA. = 4+94.32  
 P.T. STA. = 5+27.28

SEE DITCH CROSS SECTIONS FOR DITCH LAYOUT



**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE  
 STA. 911+16.48 - DITCH DETAIL

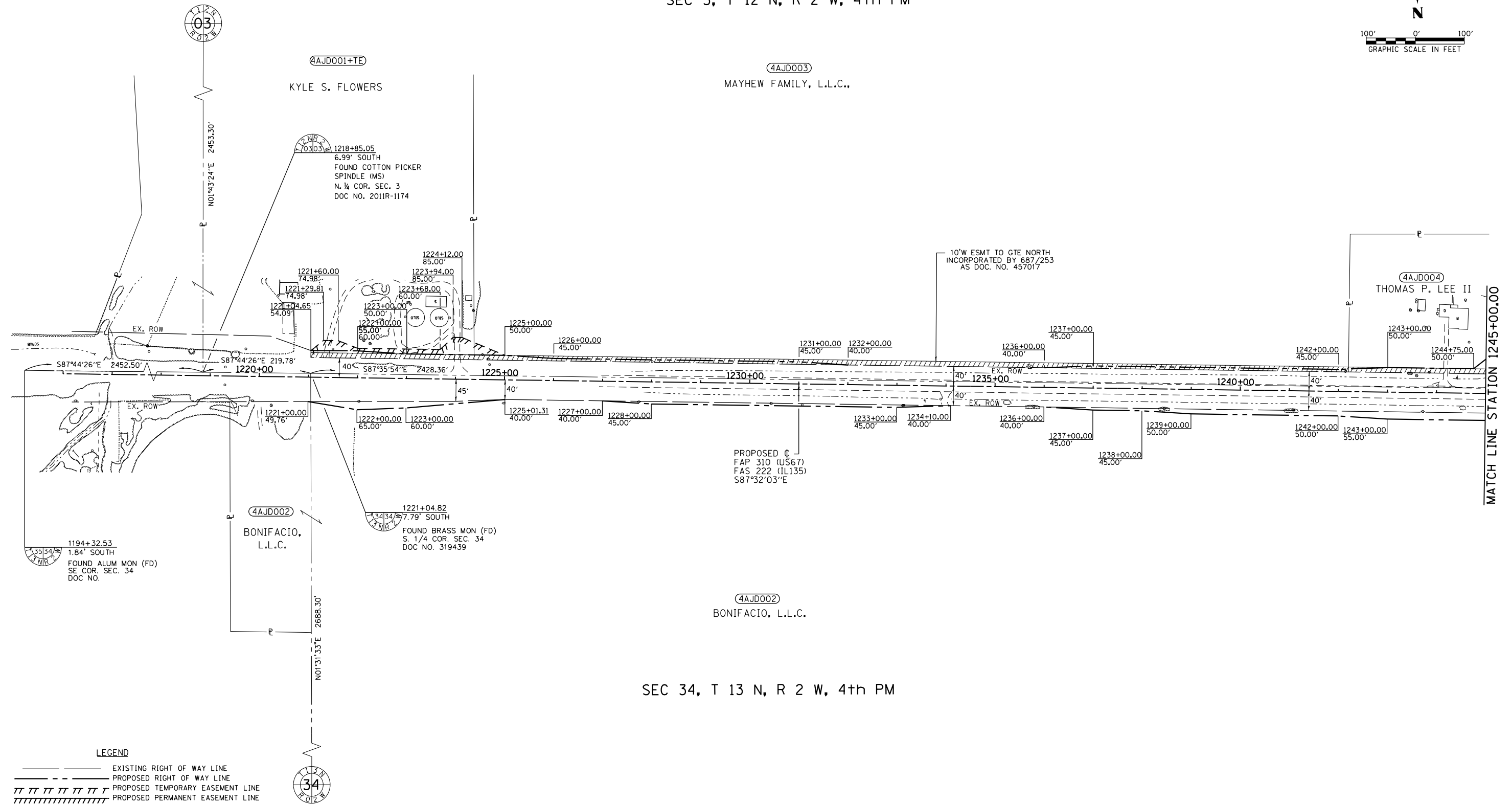
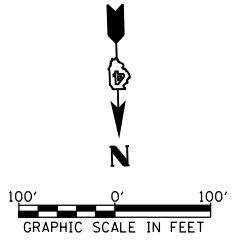
SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 0+00 TO STA. 7+87.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	120
				CONTRACT NO. 68636

ILLINOIS FED. AID PROJECT



SEC 3, T 12 N, R 2 W, 4th PM



**LEGEND**

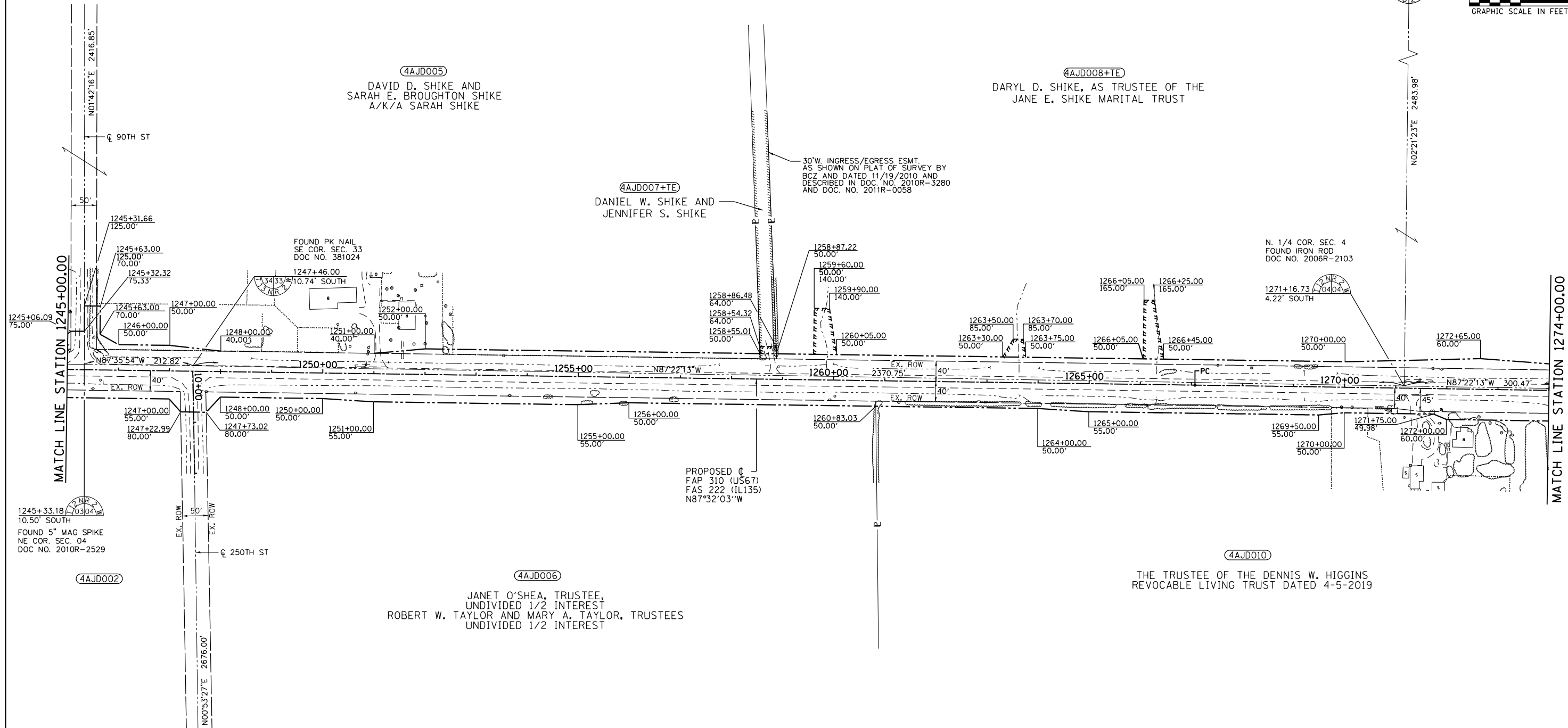
- EXISTING RIGHT OF WAY LINE
- - - - PROPOSED RIGHT OF WAY LINE
- ||||| PROPOSED TEMPORARY EASEMENT LINE
- ||||| PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- P — PROPERTY LINE

SEC 34, T 13 N, R 2 W, 4th PM

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIGHT OF WAY PLANS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	121	
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -			<b>CONTRACT NO. 68636</b>					
	PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: 1"=100' SHEET 1 OF 9 SHEETS STA. 1220+00 TO STA. 1245+00

SEC 4, T 12 N, R 2 W, 4th PM



SEC 33, T 13 N, R 2 W, 4th PM

PROP. CURVE DATA  
 PI STA. = 1272+07.11  
 Δ = 0° 10' 32" (RT)  
 D = 0° 01' 03"  
 R = 326,232.95'  
 T = 500.00'  
 L = 1,000.00'  
 E = 0.38'  
 P.C. STA. = 1267+07.11  
 P.T. STA. = 1277+07.11

LEGEND

- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- ||||| PROPOSED TEMPORARY EASEMENT LINE
- ||||| PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- P — PROPERTY LINE

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -
*FILE#		DRAWN -	REVISED -
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/9/2020	DATE = 12/9/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1"=100' SHEET 2 OF 9 SHEETS STA. 1245+00 TO STA. 1274+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	122
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

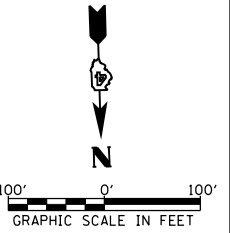
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 PI STA. = 1272+07.11  
 Δ = 0° 10' 32" (RT)  
 D = 0' 01' 03"  
 R = 326,232.95'  
 T = 500.00'  
 L = 1,000.00'  
 E = 0.38'  
 P.C. STA. = 1267+07.11  
 P.T. STA. = 1277+07.11

PROP. CURVE DATA  
 FAS 409 (I135)  
 PI STA. = 786+46.72  
 Δ = 45° 47' 54" (RT)  
 D = 6° 09' 39"  
 R = 930.00'  
 T = 392.83'  
 L = 743.38'  
 E = 79.56'  
 P.C. STA. = 782+53.89  
 P.T. STA. = 789+97.27

PROP. CURVE DATA  
 FAP 310 (US 67)  
 PI STA. = 1296+94.91  
 Δ = 89° 30' 12" (LT)  
 D = 3° 26' 28"  
 R = 1,665.00'  
 T = 1,650.63'  
 L = 2,600.94'  
 E = 679.52'  
 P.C. STA. = 1280+44.28  
 P.T. STA. = 1306+45.22

PROP. CURVE DATA  
 ENTRANCE  
 PI STA. = 12+45.95  
 Δ = 33° 19' 18" (LT)  
 D = 10° 51' 05"  
 R = 528.00'  
 T = 158.01'  
 L = 307.07'  
 E = 23.14'  
 P.C. STA. = 10+87.93  
 P.T. STA. = 13+95.00

MATCH LINE STATION 802+00.00

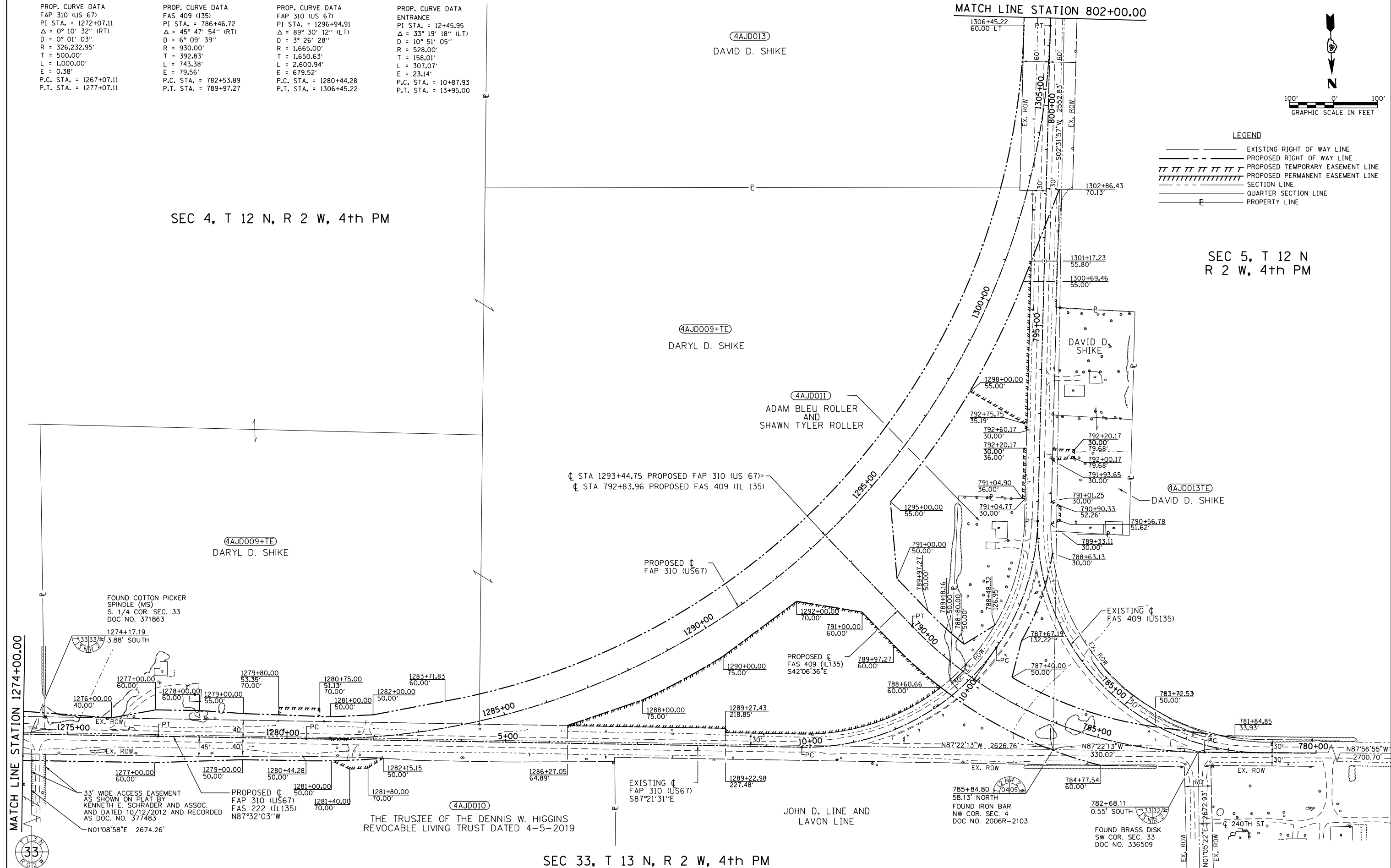


LEGEND

	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

SEC 4, T 12 N, R 2 W, 4th PM

SEC 5, T 12 N  
 R 2 W, 4th PM



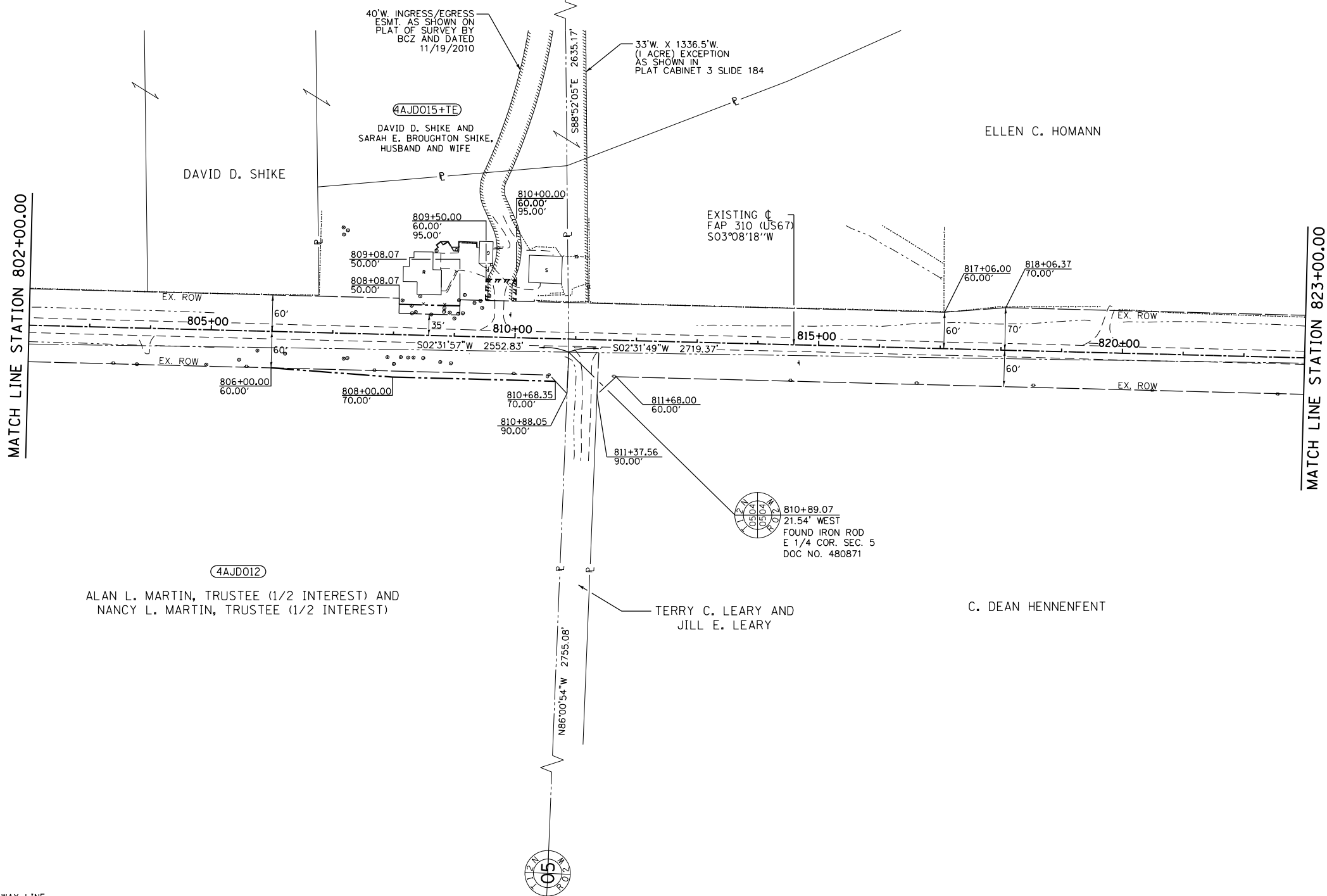
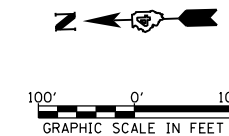
MATCH LINE STATION 1274+00.00



FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIGHT OF WAY PLANS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILES		DRAWN -	REVISED -			310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	123	
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	PLOT DATE = 12/9/2020	DATE = 12/9/2020	REVISED -			ILLINOIS FED. AID PROJECT					

SEC 33, T 13 N, R 2 W, 4th PM

SEC 4, T 12 N, R 2 W, 4th PM



SEC 5, T 12 N, R 2 W, 4th PM

LEGEND

- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- ||||| PROPOSED TEMPORARY EASEMENT LINE
- ||||| PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- P — PROPERTY LINE

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	PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

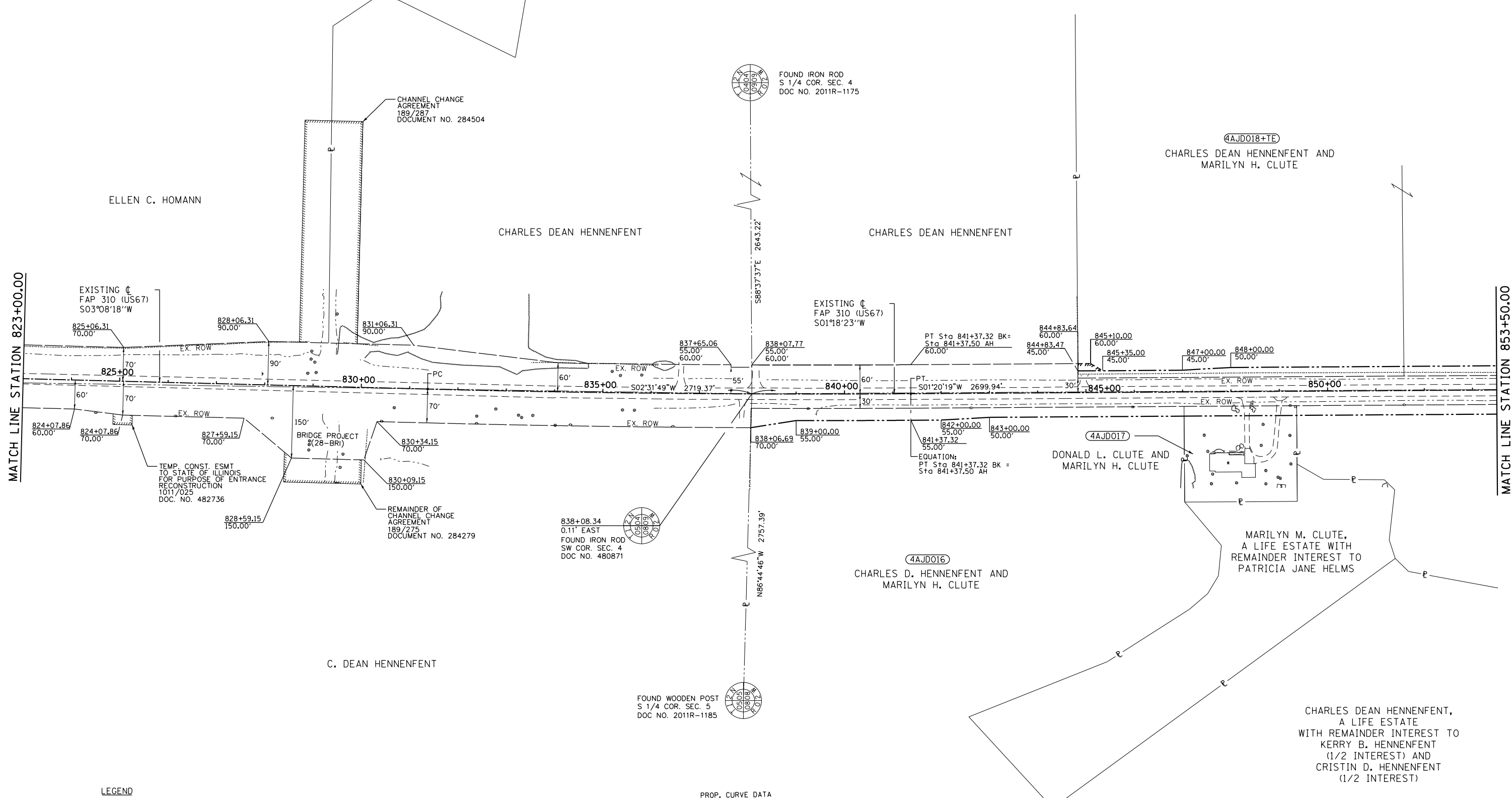
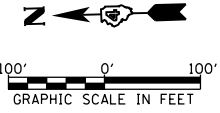
RIGHT OF WAY PLANS

SCALE: 1"=100' SHEET 4 OF 9 SHEETS STA. 802+00 TO STA. 823+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	124
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

SEC 4, T 12 N, R 2 W, 4th PM

SEC 9, T 12 N, R 2 W, 4th PM



MATCH LINE STATION 823+00.00

MATCH LINE STATION 853+50.00

- LEGEND**
- EXISTING RIGHT OF WAY LINE
  - - - - - PROPOSED RIGHT OF WAY LINE
  - ||||| PROPOSED TEMPORARY EASEMENT LINE
  - ||||| PROPOSED PERMANENT EASEMENT LINE
  - SECTION LINE
  - QUARTER SECTION LINE
  - P — PROPERTY LINE

SEC 5, T 12 N, R 2 W, 4th PM

SEC 8, T 12 N, R 2 W, 4th PM

PROP. CURVE DATA  
 PI STA. = 836+37.40  
 Δ = 1° 49' 55" (LT)  
 D = 0° 11' 00"  
 R = 31,273.20'  
 T = 500.00'  
 L = 999.91'  
 E = 4.00'  
 P.C. STA. = 831+37.40  
 P.T. STA. = 841+37.32

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -
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	PLOT DATE = 12/9/2020	DATE = 12/9/2020	REVISED -

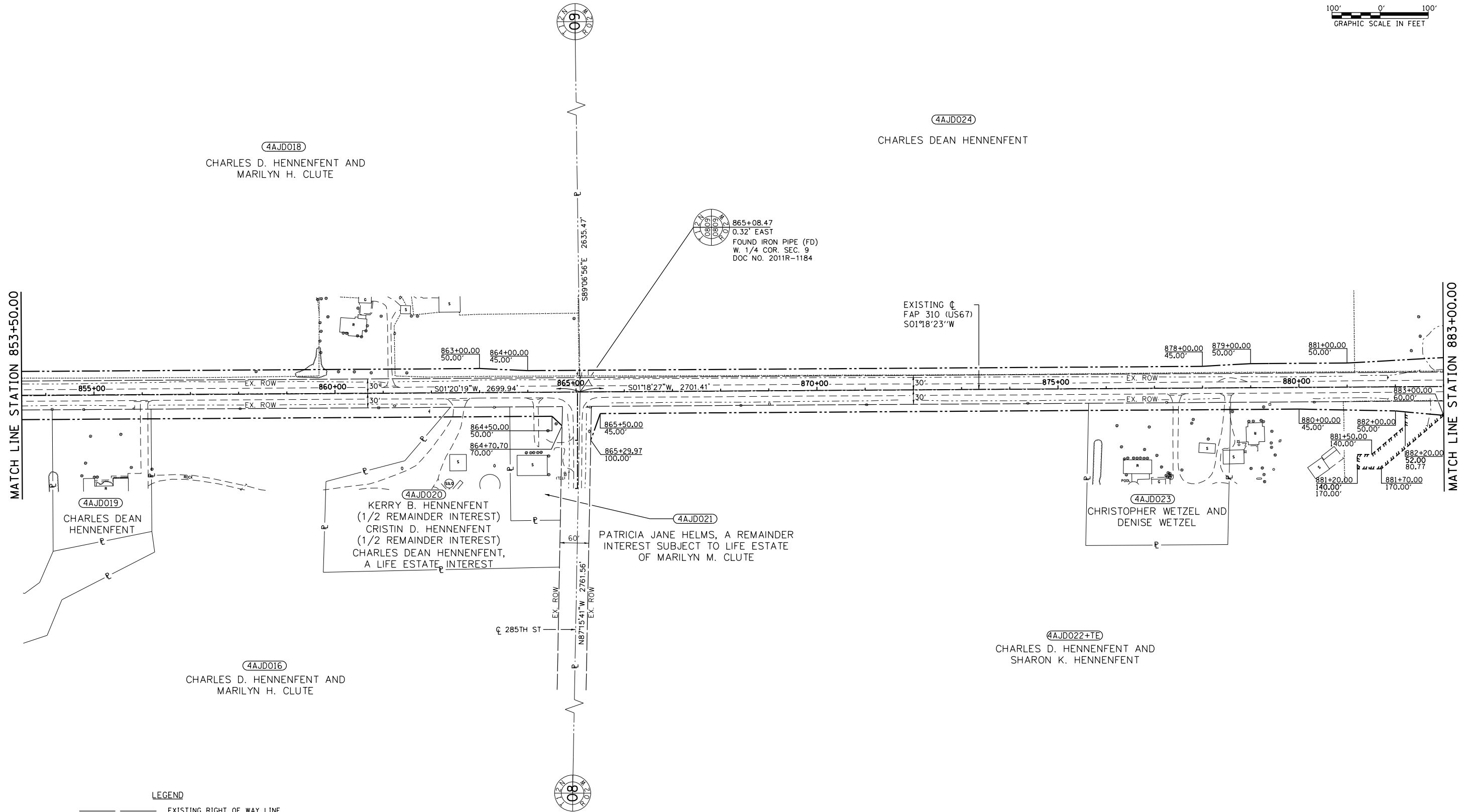
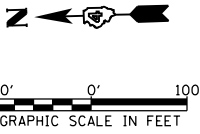
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY PLANS**

SCALE: 1"=100' SHEET 5 OF 9 SHEETS STA. 823+00 TO STA. 853+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	125
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

SEC 9, T 12 N, R 2 W, 4th PM



SEC 8, T 12 N, R 2 W, 4th PM

**LEGEND**

	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

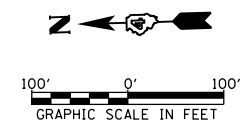
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY PLANS**

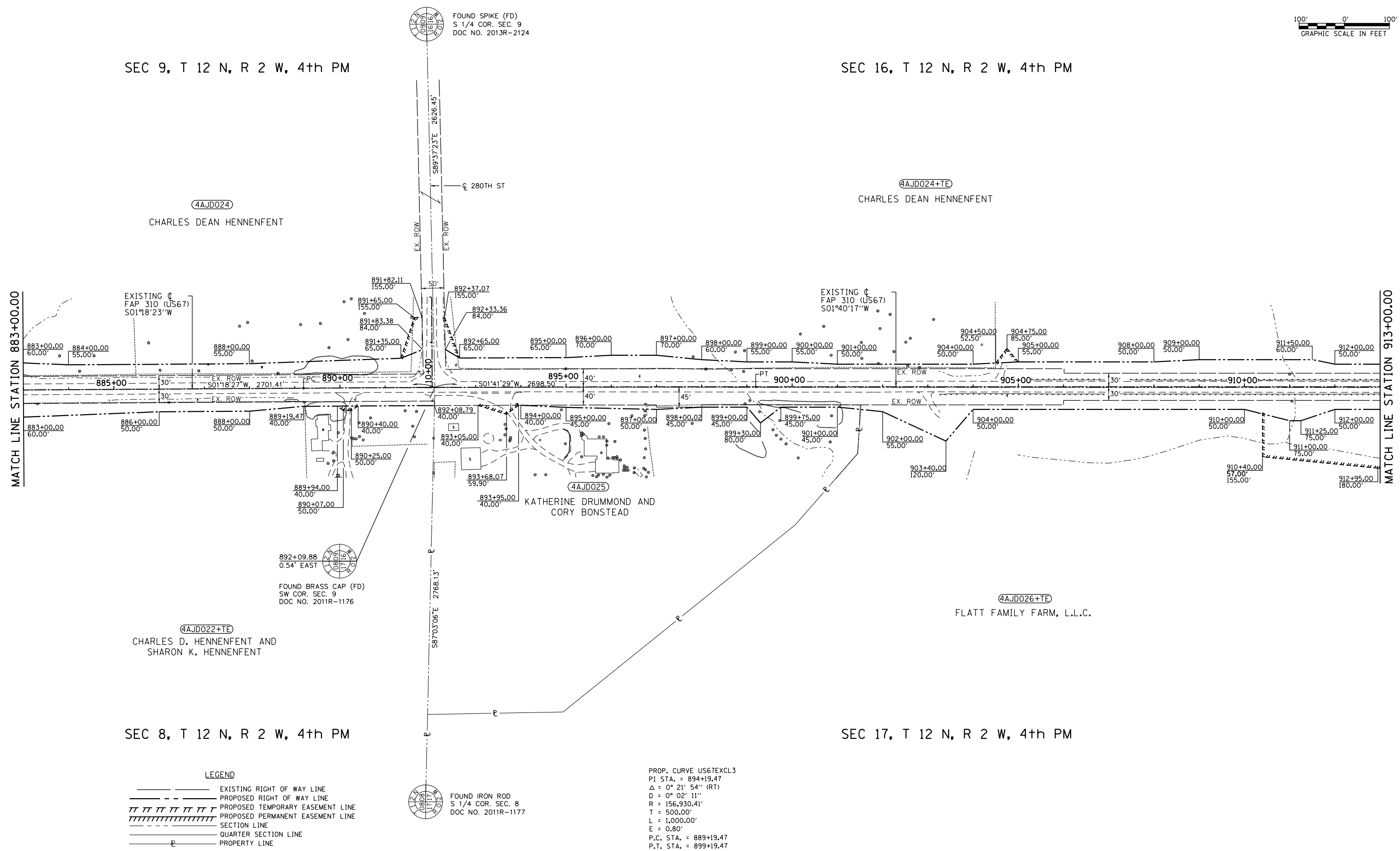
SCALE: 1"=100' SHEET 6 OF 9 SHEETS STA. 853+50 TO STA. 883+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	126
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



SEC 9, T 12 N, R 2 W, 4th PM

SEC 16, T 12 N, R 2 W, 4th PM



**LEGEND**

	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

PROP. CURVE US67EXCL3  
 PI STA. = 894+19.47  
 $\Delta = 0^\circ 21' 54''$  (RT)  
 $D = 0^\circ 02' 11''$   
 $R = 156,930.41'$   
 $T = 500.00'$   
 $L = 1,000.00'$   
 $E = 0.80'$   
 P.C. STA. = 889+19.47  
 P.T. STA. = 899+19.47

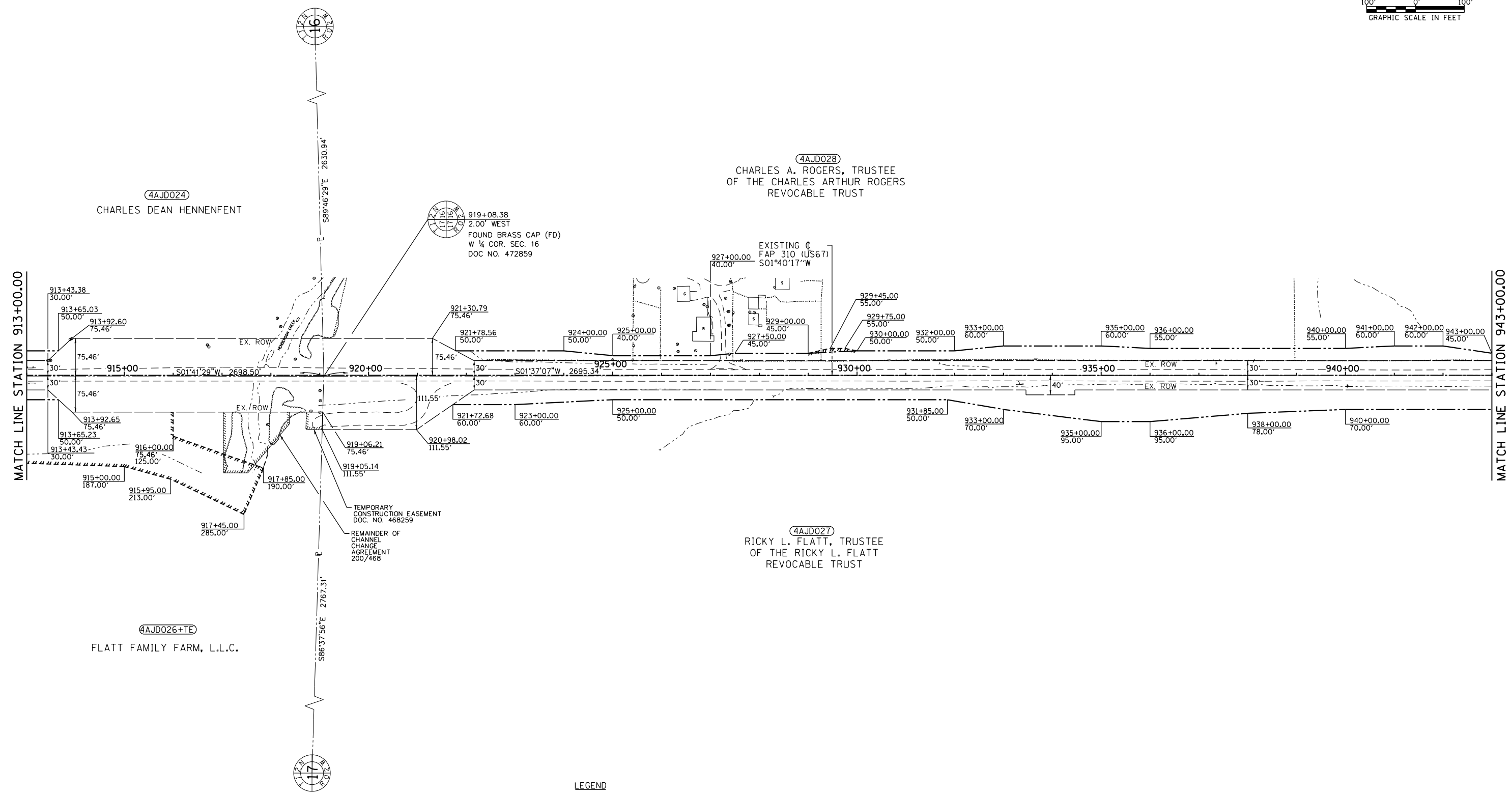
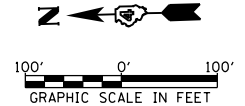
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY PLANS**  
 SCALE: 1"=100' SHEET 7 OF 9 SHEETS STA. 883+00 TO STA. 913+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	127
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

SEC 16, T 12 N, R 2 W, 4th PM



SEC 17, T 12 N, R 2 W, 4th PM

**LEGEND**

	EXISTING RIGHT OF WAY LINE
	PROPOSED RIGHT OF WAY LINE
	PROPOSED TEMPORARY EASEMENT LINE
	PROPOSED PERMANENT EASEMENT LINE
	SECTION LINE
	QUARTER SECTION LINE
	PROPERTY LINE

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RIGHT OF WAY PLANS**

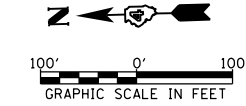
SCALE: 1"=100'    SHEET 8 OF 9 SHEETS    STA. 913+00    TO STA. 943+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	128
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



SEC 16, T 12 N  
R 2 W, 4th PM

SEC 21, T 12 N, R 2 W, 4th PM



4AJD028  
CHARLES A. ROGERS, TRUSTEE  
OF THE CHARLES ARTHUR  
ROGERS REVOCABLE TRUST

4AJD030  
MARVIN E. COOK AND  
JAN K. COOK

DOROTHY V. McWHORTER, TRUSTEE  
UNDER THE DOROTHY V. McWHORTER  
LIVING TRUST

972+69.81  
7.11' EAST  
FOUND IRON PIN (FD)  
W 1/4 COR. SEC. 21  
DOC NO. 452778

MATCH LINE STATION 943+00.00

4AJD027  
RICKY L. FLATT, AS TRUSTEE  
OF THE RICKY L. FLATT  
REVOCABLE TRUST

4AJD029  
ALAN E. PHILLIPS AND  
MARCY J. PHILLIPS

4AJD031  
NATHAN E. PHILLIPS  
AND JENA PHILLIPS

CHARLES DEAN HENNEFENT

SEC 17, T 12 N  
R 2 W, 4th PM

SEC 20, T 12 N, R 2 W, 4th PM

FOUND COTTON  
PICKER SPINDLE (MS)  
S 1/4 COR. SEC. 17  
DOC NO. 2011R-1179

LEGEND

- EXISTING RIGHT OF WAY LINE
- - - PROPOSED RIGHT OF WAY LINE
- /// PROPOSED TEMPORARY EASEMENT LINE
- //// PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- PROPERTY LINE

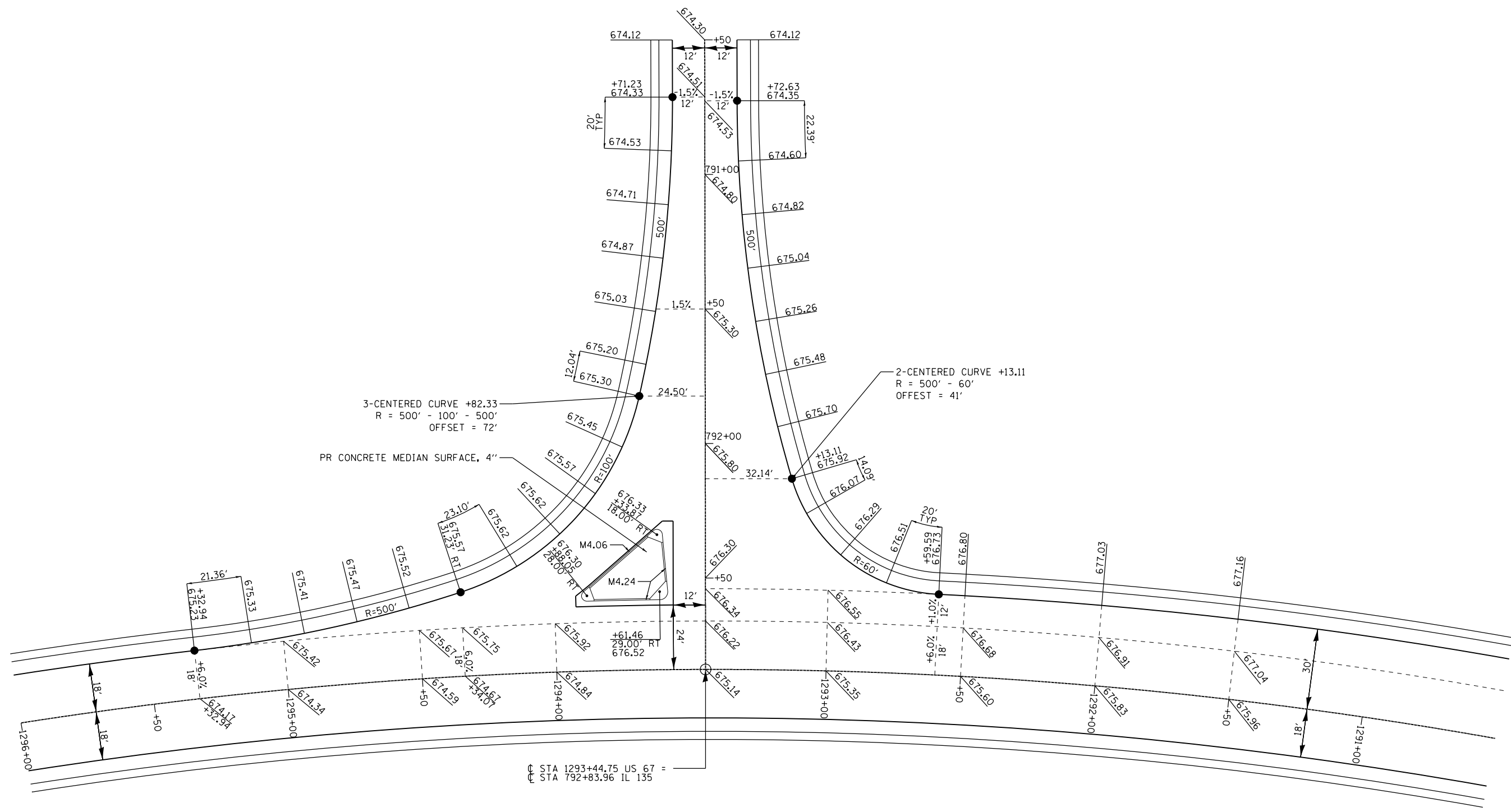
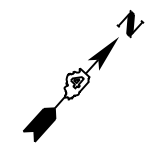
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1"=100' SHEET 9 OF 9 SHEETS STA. 943+00 TO STA. 973+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1, RS-2; 28W-1, RS-5	WARREN/MERCER	234	129
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



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**EFK Moen**  
Civil Engineering Design

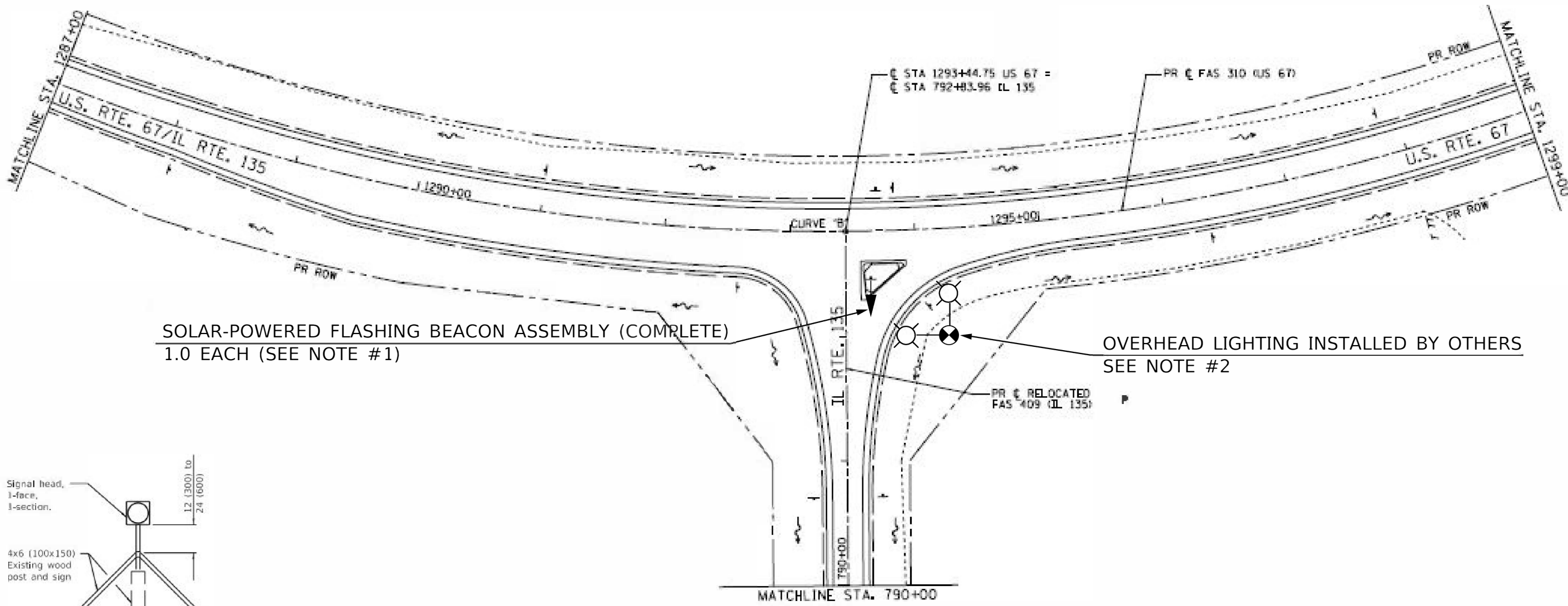
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERSECTION DETAIL SHEET**

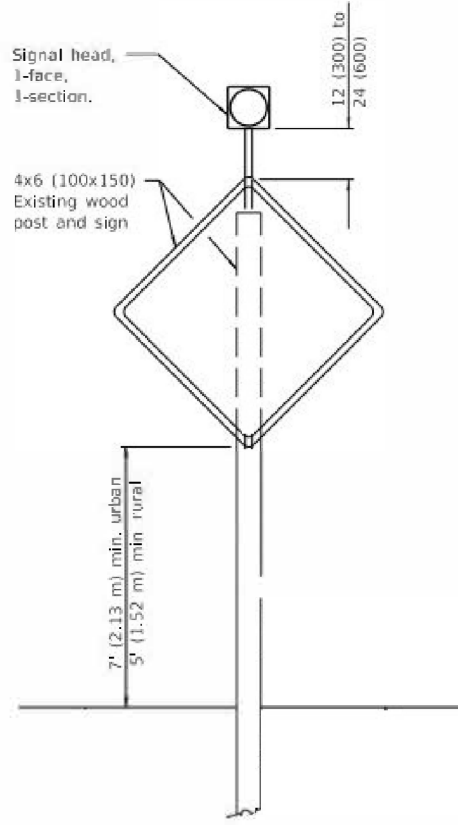
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	130
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)  
1.0 EACH (SEE NOTE #1)

OVERHEAD LIGHTING INSTALLED BY OTHERS  
SEE NOTE #2



**NOTES:**

1. THE CONTRACTOR SHALL FURNISH A RED SOLAR POWERED FLASHING BEACON AND INSTALL IT ON THE PROPOSED STOP SIGN POST. THE FLASHING BEACON SHALL BE INSTALLED WITH A 12" SEPARATION FROM THE TOP OF THE STOP SIGN TO BOTTOM OF THE RED INDICATION IN ACCORDANCE WITH MUTCD REQUIREMENTS AND IDOT HIGHWAY STANDARD 880001-01.
2. IDOT DISTRICT FOUR OPERATIONS WILL COORDINATE THE INSTALLATION OF TWO RENTAL LIGHTS AT THE INTERSECTION BY THE LOCAL POWER COMPANY. THESE LIGHTS WILL BE INSTALLED BY THE UTILITY COMPANY AND WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.05 OF THE STANDARD SPECIFICATIONS.

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
SOLAR-POWERED FLASHING BEACON ASSEMBLY (COMPLETE)	EACH	1.0

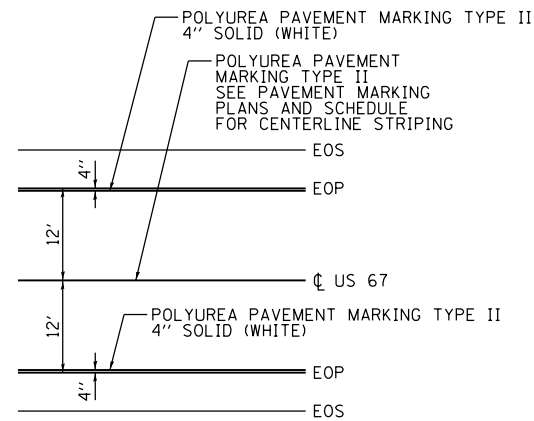
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PLOT DATE = \$DATES		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>PROPOSED FLASHING BEACON</b>	
SCALE: N.A.	SHEET \$\$GEN1 OF \$>GEN SHEETS

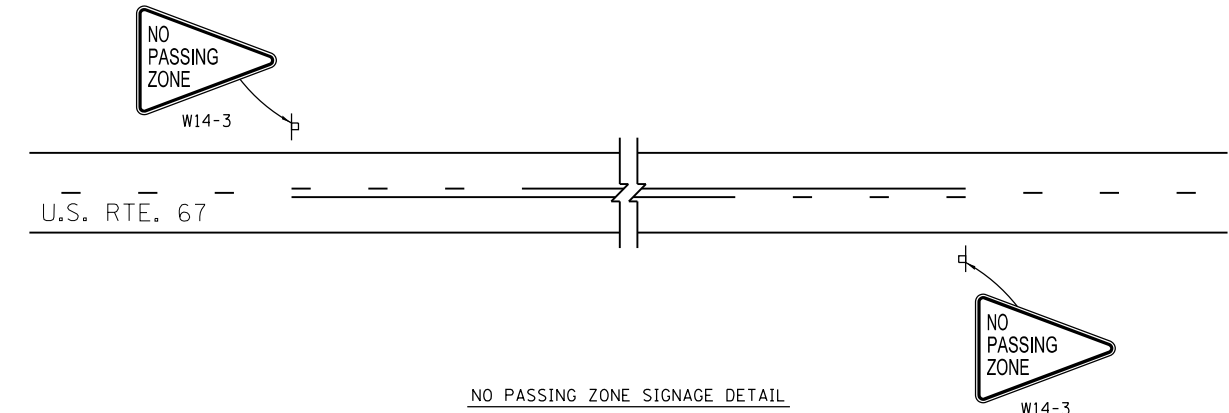
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	131
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



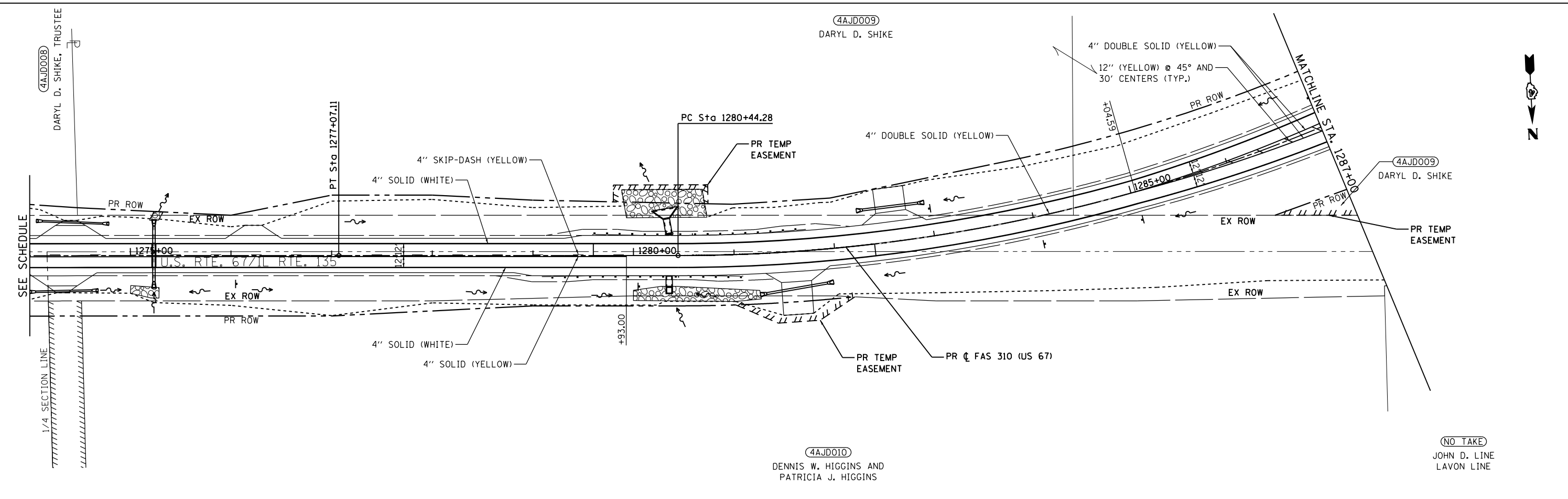
PAVEMENT MARKING SCHEDULE - US 67 (EAST-WEST)			
LOCATION			
CENTER LINE	1217+73.29	1224+25.99	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	1224+25.99	1233+57.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	1233+57.00	1243+31.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	1243+31.00	1251+64.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	1251+64.00	1255+34.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	1255+34.00	1259+97.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	1259+97.00	1271+00.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	1271+00.00	1274+00.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
LEFT SIDE	1217+73.29	1244+69.25	(WHITE) 4" SOLID WHITE LINE
LEFT SIDE	1245+93.26	1274+00.00	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	1217+73.29	1246+85.40	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	1248+09.46	1274+00.00	(WHITE) 4" SOLID WHITE LINE

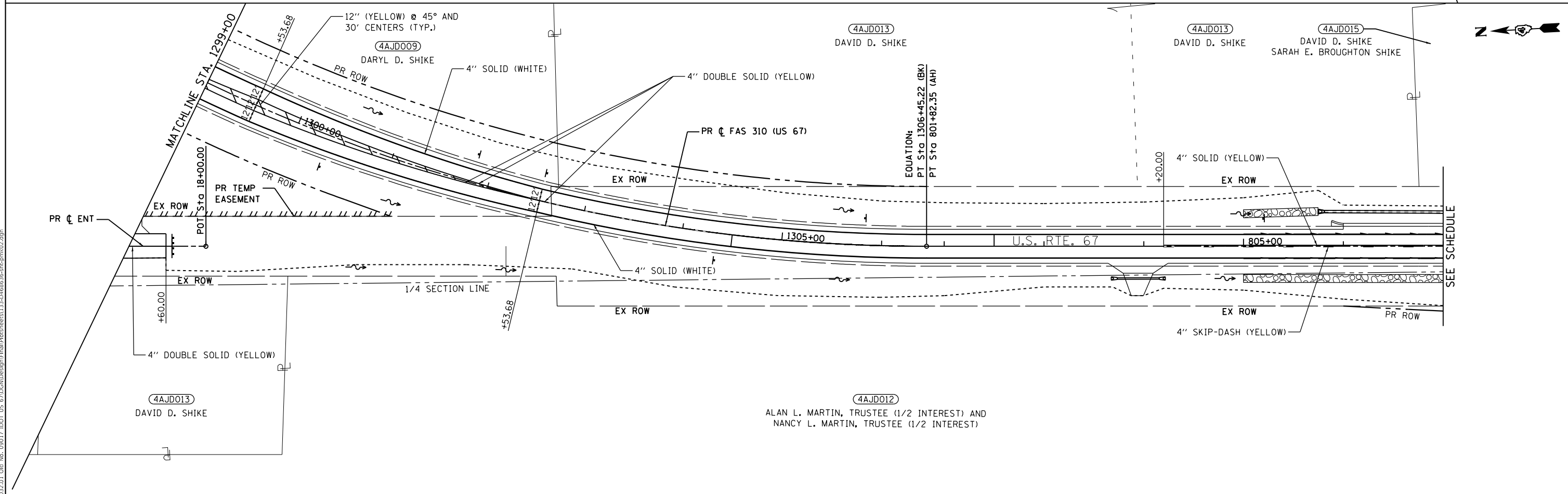
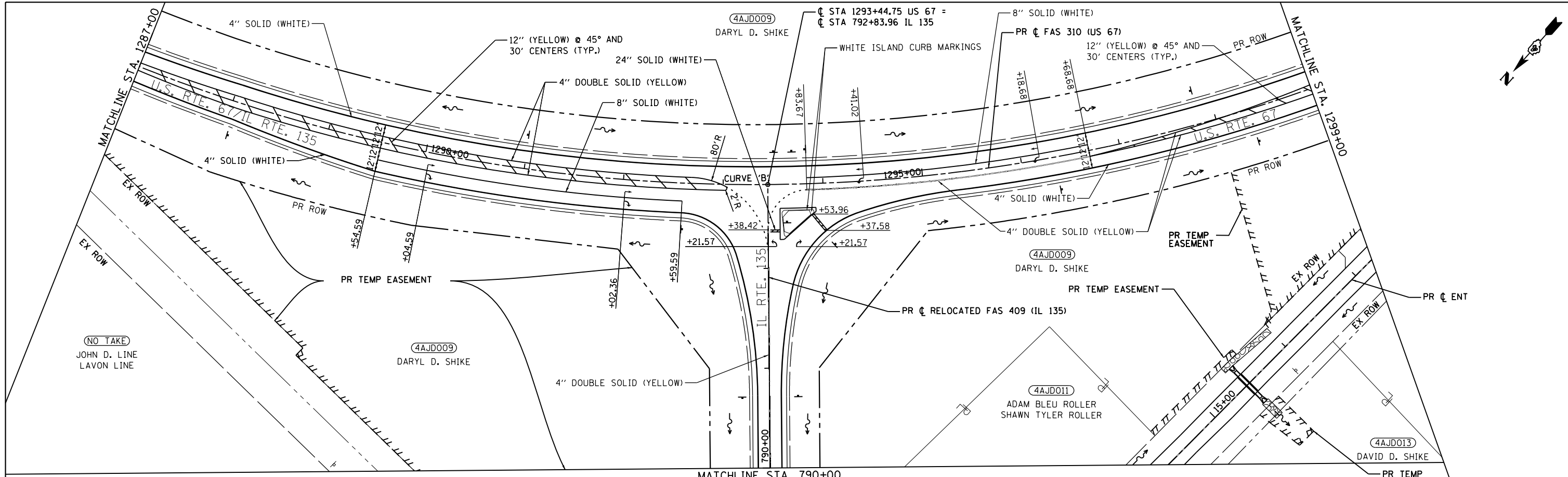
PAVEMENT MARKING SCHEDULE - US 67 (NORTH-SOUTH)			
LOCATION			
CENTER LINE	807+00.00	814+68.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	814+68.00	827+94.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	827+94.00	828+37.53	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	830+21.29	838+00.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	838+00.00	839+00.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	839+00.00	849+43.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	849+43.00	881+84.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	881+84.00	891+49.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	891+49.00	895+00.00	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	895+00.00	904+75.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	904+75.00	916+67.74	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	919+24.78	937+35.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	937+35.00	945+38.03	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	945+38.03	948+16.02	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	948+16.02	955+40.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
LEFT SIDE	807+00.00	828+37.53	(WHITE) 4" SOLID WHITE LINE
LEFT SIDE	830+21.29	891+16.90	(WHITE) 4" SOLID WHITE LINE
LEFT SIDE	892+90.80	916+70.92	(WHITE) 4" SOLID WHITE LINE
LEFT SIDE	919+28.01	945+41.97	(WHITE) 4" SOLID WHITE LINE
LEFT SIDE	946+65.98	955+40.00	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	807+00.00	828+37.53	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	830+21.29	864+40.72	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	865+64.72	916+64.55	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	919+21.56	945+40.60	(WHITE) 4" SOLID WHITE LINE
RIGHT SIDE	946+64.69	955+40.00	(WHITE) 4" SOLID WHITE LINE

PAVEMENT MARKING TYPICAL



- NOTES:
- OPERATIONS SHALL VERIFY ALL STRIPING LAYOUT PRIOR TO PLACEMENT.
  - THE CONTRACTOR SHALL INSTALL STRIPING PER HIGHWAY STANDARD 780001, DISTRICT STANDARD 780001-D4, AND AS SHOWN ON THE STRIPING PLANS.
  - RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ALONG US-67 AND IL 135 PER HIGHWAY STANDARD 781001.
  - REFER TO THE NO PASSING ZONE SIGNAGE DETAIL FOR INFORMATION REGARDING PLACEMENT OF NO PASSING ZONE SIGNS THAT SHALL ACCOMPANY THE PROPOSED CENTERLINE PAVEMENT MARKINGS. NO PASSING ZONE SIGNS SHALL BE PLACED ACCORDING TO IDOT HIGHWAY STANDARD 720006 & THE CURRENT EDITION OF THE MUTCD.





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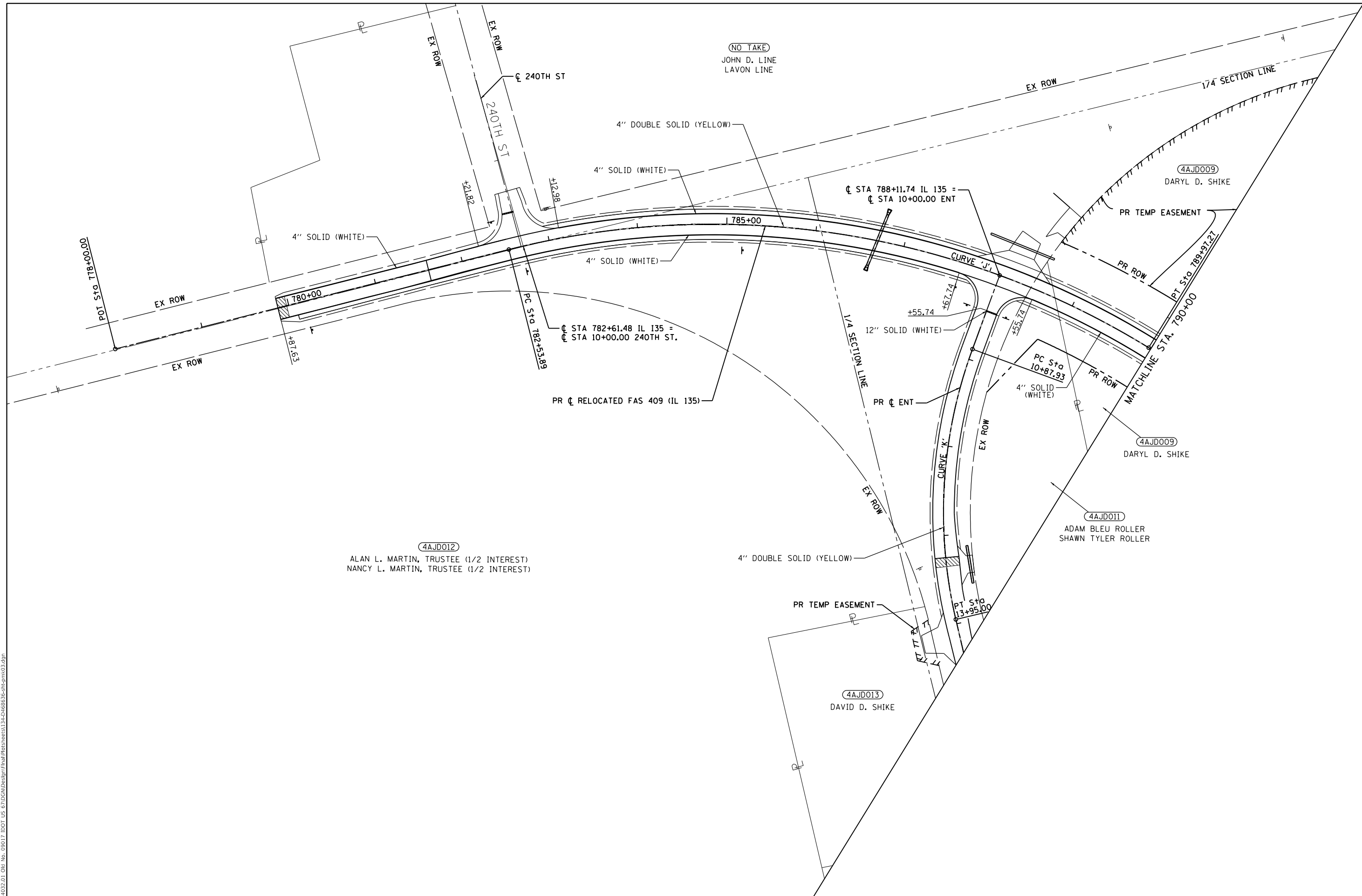
**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKINGS**  
SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 1287+00 TO STA. 807+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	133
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



4AJD012  
 ALAN L. MARTIN, TRUSTEE (1/2 INTEREST)  
 NANCY L. MARTIN, TRUSTEE (1/2 INTEREST)

(NO TAKE)  
 JOHN D. LINE  
 LAVON LINE

4AJD009  
 DARYL D. SHIKE

4AJD009  
 DARYL D. SHIKE

4AJD011  
 ADAM BLEU ROLLER  
 SHAWN TYLER ROLLER

4AJD013  
 DAVID D. SHIKE

PC STA 782+53.89  
 STA 782+61.48 IL 135 =  
 STA 10+00.00 240TH ST.

PC STA 788+11.74 IL 135 =  
 STA 10+00.00 ENT

PC STA 10+87.93

PT STA 13+95.00

PT STA 789+97.21

MATCHLINE STA. 790+00

4" DOUBLE SOLID (YELLOW)

4" SOLID (WHITE)

4" SOLID (WHITE)

12" SOLID (WHITE)

PR C RELOCATED FAS 409 (IL 135)

PR C ENT

4" SOLID (WHITE)

4" DOUBLE SOLID (YELLOW)

PR TEMP EASEMENT

EX ROW

EX ROW

EX ROW

EX ROW

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**EFK Moen**  
 Civil Engineering Design

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DRAWN - SJF	REVISED -	
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PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

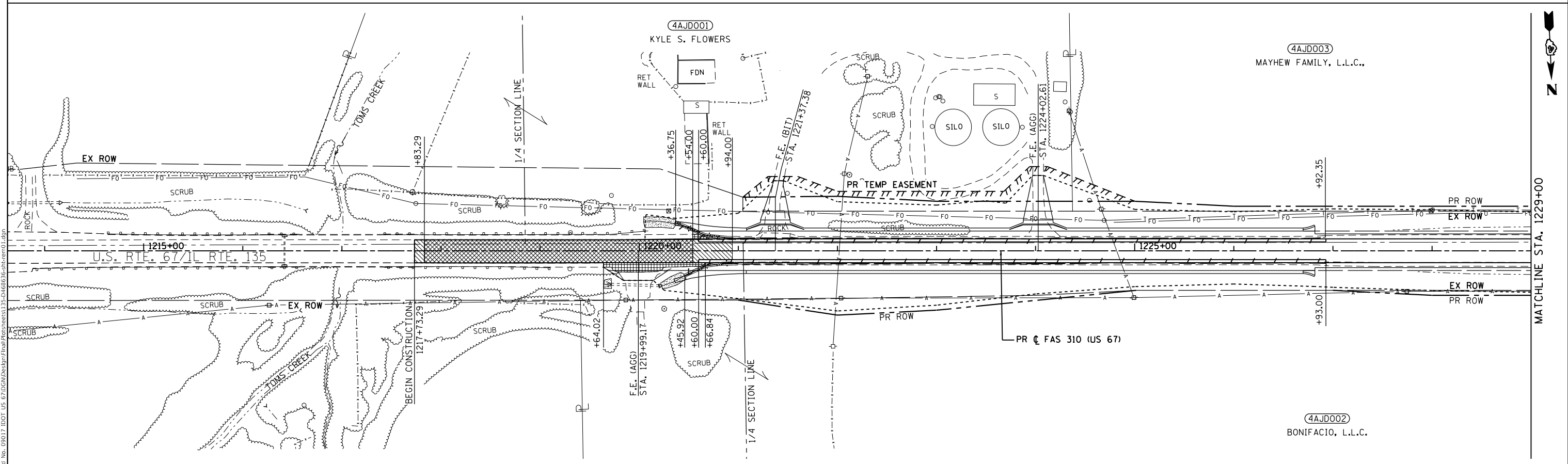
**PAVEMENT MARKINGS**

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 778+00 TO STA. 790+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	134
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

NOTE:  
UNLESS OTHERWISE SHOWN, ALL EXISTING PAVEMENT SHALL RECEIVE A HOT-MIX ASPHALT SURFACE REMOVAL OF 1 3/4"

•	SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS		SHOULDER REMOVAL
	BUTT JOINT		DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, 2"		SIDEWALK REMOVAL
	PAVEMENT REMOVAL		GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL



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**EFK Moen**  
Civil Engineering Design

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	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

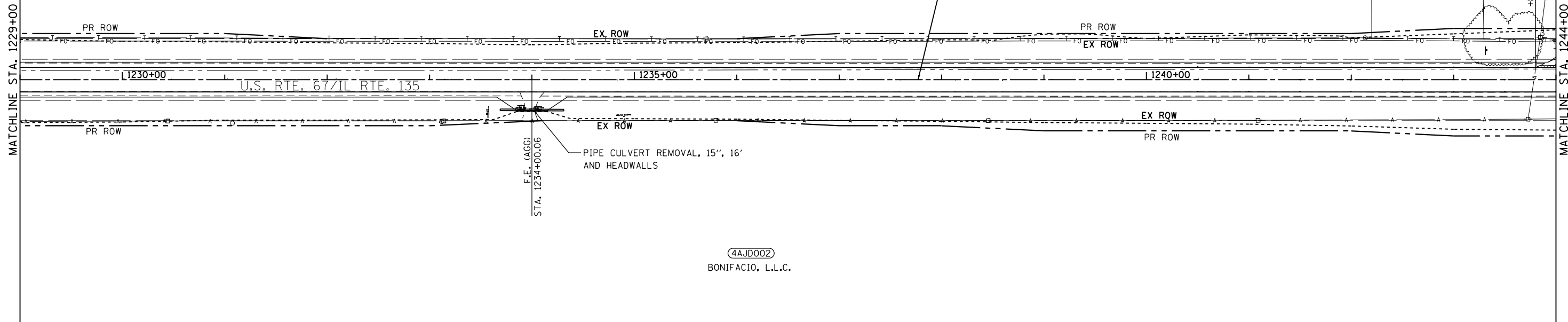
<b>REMOVALS</b>	
SCALE: 1"=50'	SHEET 1 OF 10 SHEETS STA. 1214+00 TO STA. 1229+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	135
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

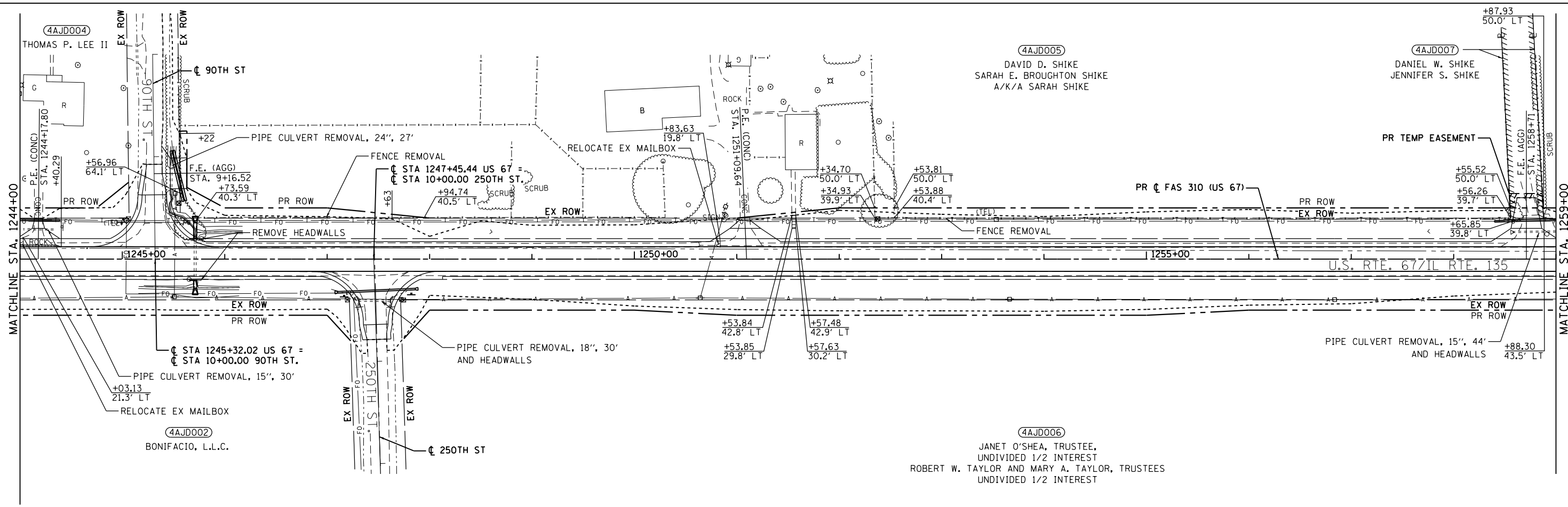
•	SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS		SHOULDER REMOVAL
	BUTT JOINT		DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, 2"		SIDEWALK REMOVAL
	PAVEMENT REMOVAL		GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

4AJD003  
MAYHEW FAMILY, L.L.C.,

4AJD004  
THOMAS P. LEE II



4AJD002  
BONIFACIO, L.L.C.



4AJD005  
DAVID D. SHIKE  
SARAH E. BROUGHTON SHIKE  
A/K/A SARAH SHIKE

4AJD007  
DANIEL W. SHIKE  
JENNIFER S. SHIKE

4AJD002  
BONIFACIO, L.L.C.

4AJD006  
JANET O'SHEA, TRUSTEE,  
UNDIVIDED 1/2 INTEREST  
ROBERT W. TAYLOR AND MARY A. TAYLOR, TRUSTEES  
UNDIVIDED 1/2 INTEREST

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**EFK Moen**  
Civil Engineering Design

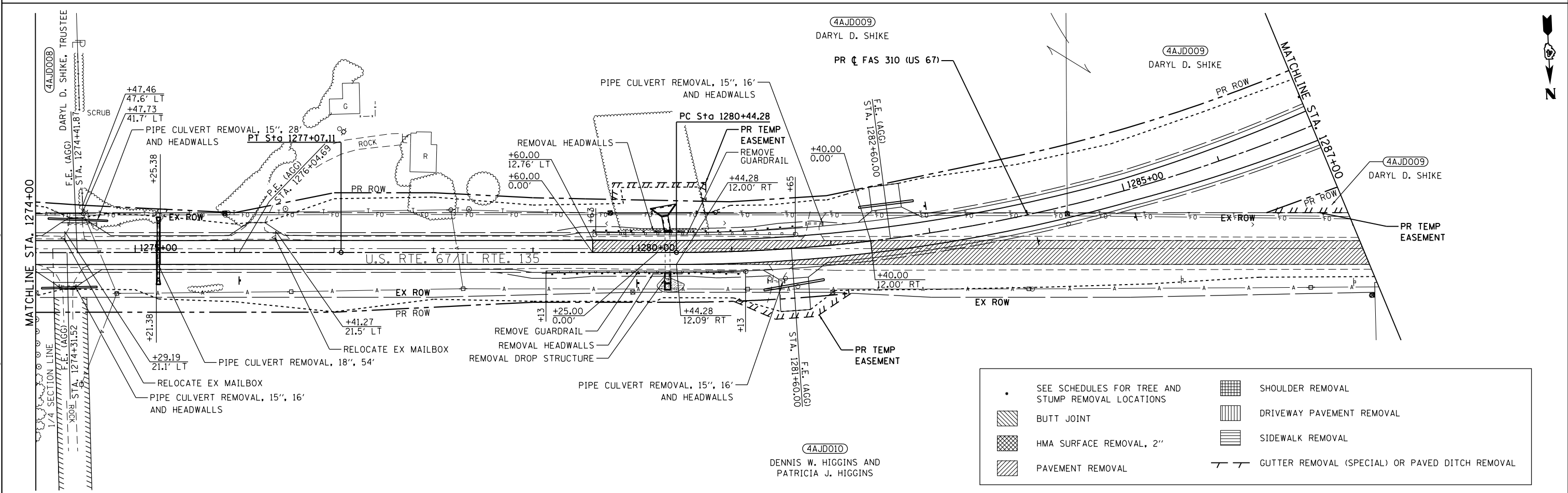
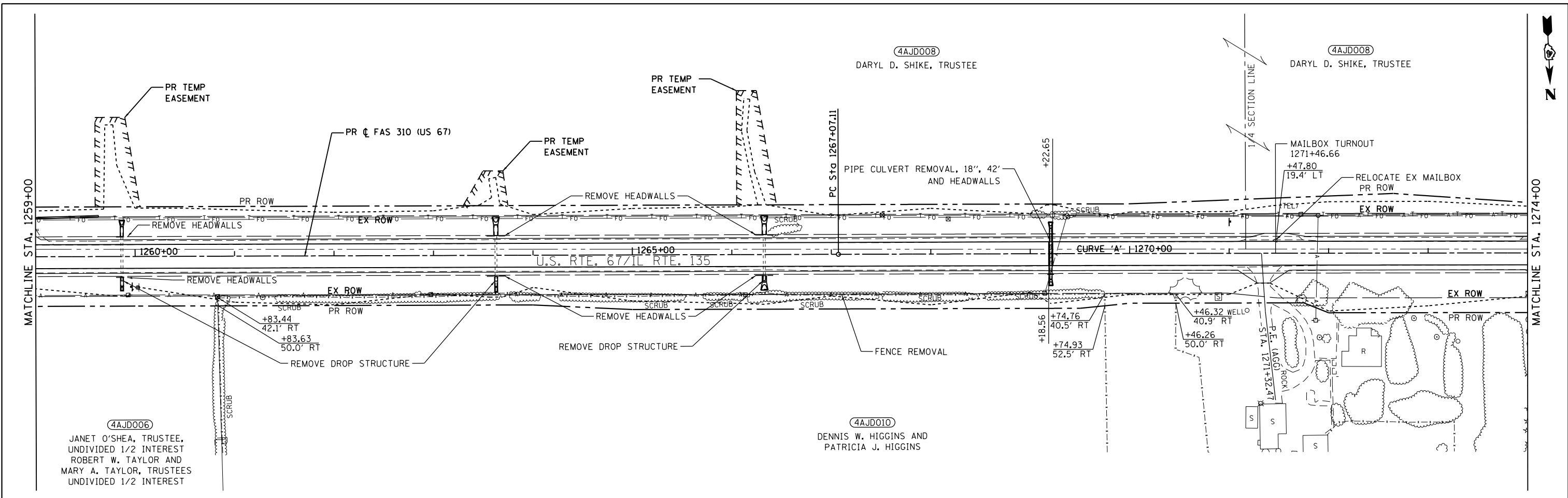
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	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**REMOVALS**  
SCALE: 1"=50' SHEET 2 OF 10 SHEETS STA. 1229+00 TO STA. 1259+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	136
				CONTRACT NO. 68636
ILLINOIS FED. AID PROJECT				





•	SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS	[Grid Pattern]	SHOULDER REMOVAL
[Diagonal Line Pattern]	BUTT JOINT	[Horizontal Line Pattern]	DRIVEWAY PAVEMENT REMOVAL
[Cross-hatch Pattern]	HMA SURFACE REMOVAL, 2"	[Vertical Line Pattern]	SIDEWALK REMOVAL
[Diagonal Line Pattern]	PAVEMENT REMOVAL	[Dashed Line Pattern]	GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

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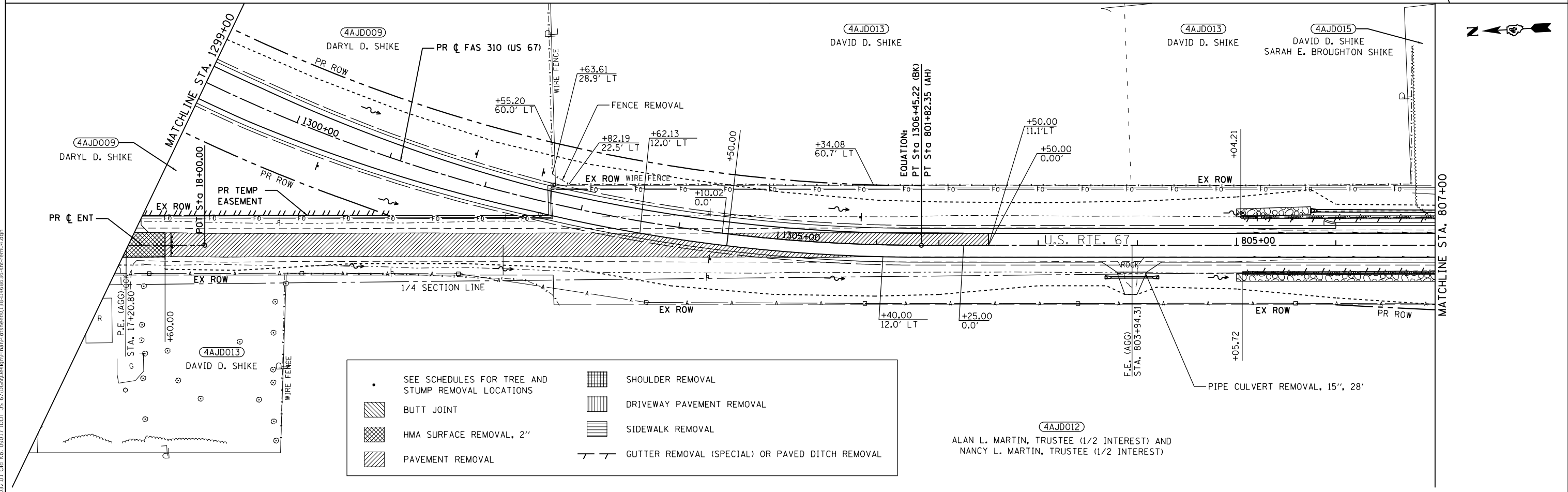
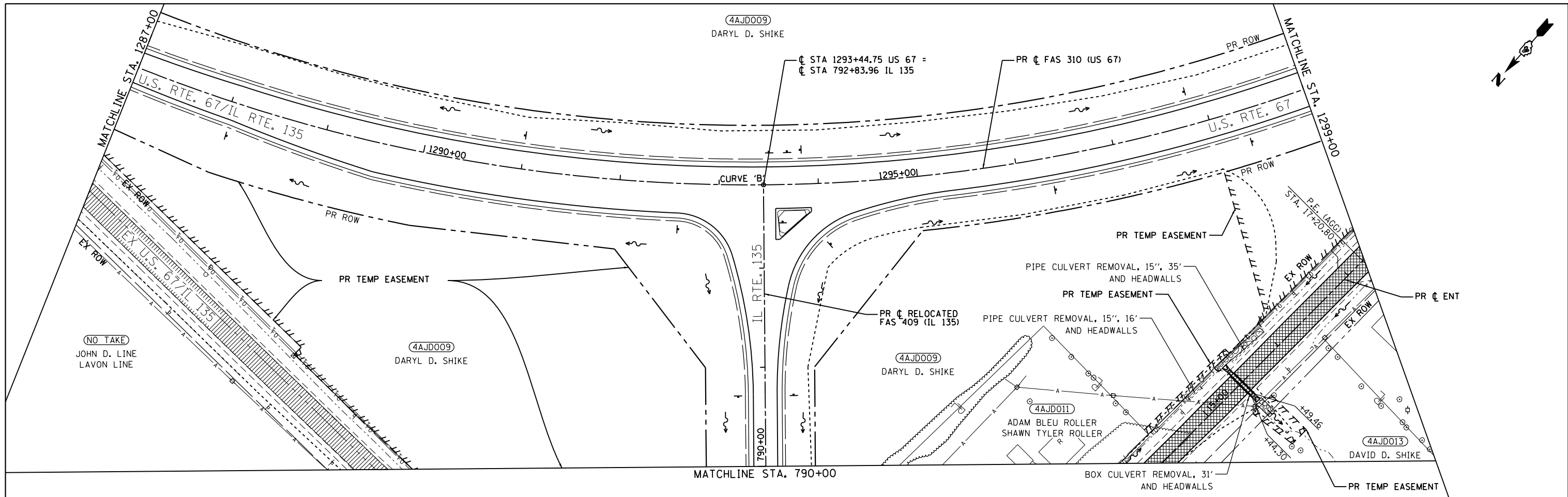
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Civil Engineering Design

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	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=50'	SHEET 3 OF 10 SHEETS	STATIONING: STA. 1259+00 TO STA. 1287+00	REMOVALS	
			F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5

COUNTY	TOTAL SHEETS	SHEET NO.
WARREN/MERCER	234	137
CONTRACT NO. 68636		
ILLINOIS FED. AID PROJECT		



•	SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS	[Grid Pattern]	SHOULDER REMOVAL
[Diagonal Hatching]	BUTT JOINT	[Vertical Line Pattern]	DRIVEWAY PAVEMENT REMOVAL
[Cross-hatching]	HMA SURFACE REMOVAL, 2"	[Horizontal Line Pattern]	SIDEWALK REMOVAL
[Diagonal Hatching]	PAVEMENT REMOVAL	[Dashed Line Pattern]	GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

4AJD012  
ALAN L. MARTIN, TRUSTEE (1/2 INTEREST) AND  
NANCY L. MARTIN, TRUSTEE (1/2 INTEREST)

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**EFK Moen**  
Civil Engineering Design

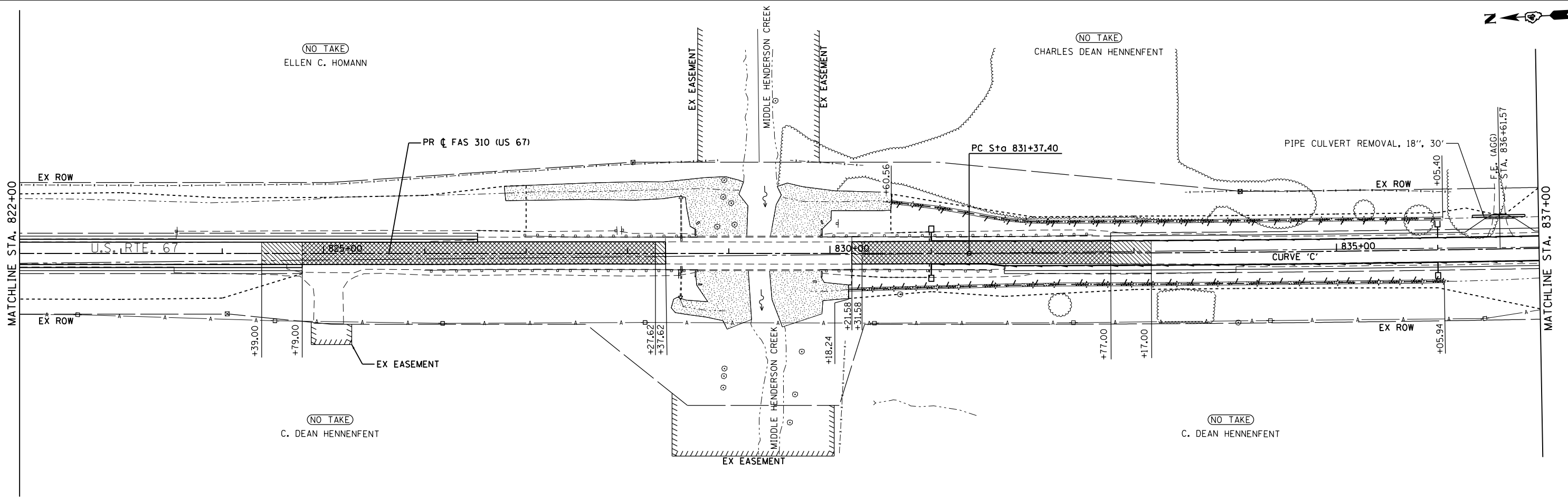
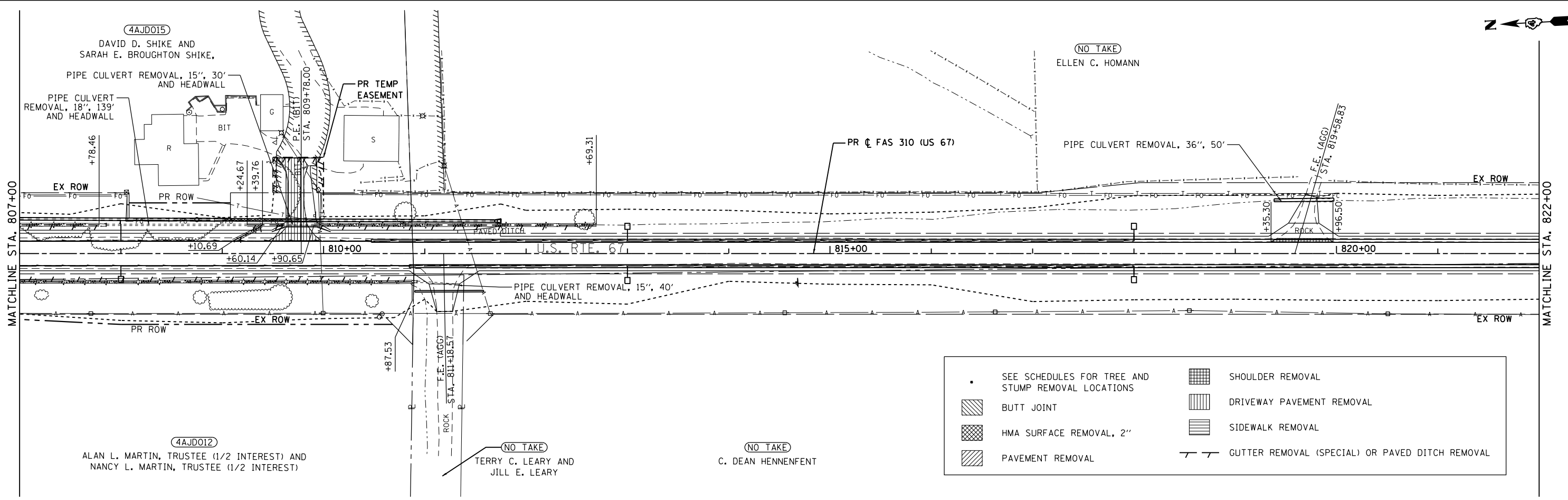
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	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS	REMOVED
DEPARTMENT OF TRANSPORTATION	REMOVED

SCALE: 1"=50'		SHEET 4 OF 10 SHEETS		STA. 1287+00 TO STA. 807+00	
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F.A.P. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
310		101W-1,RS-2; 28W-1,RS-5		WARREN/MERCER		234		138	
CONTRACT NO. 68636									
ILLINOIS FED. AID PROJECT									

REMOVED	
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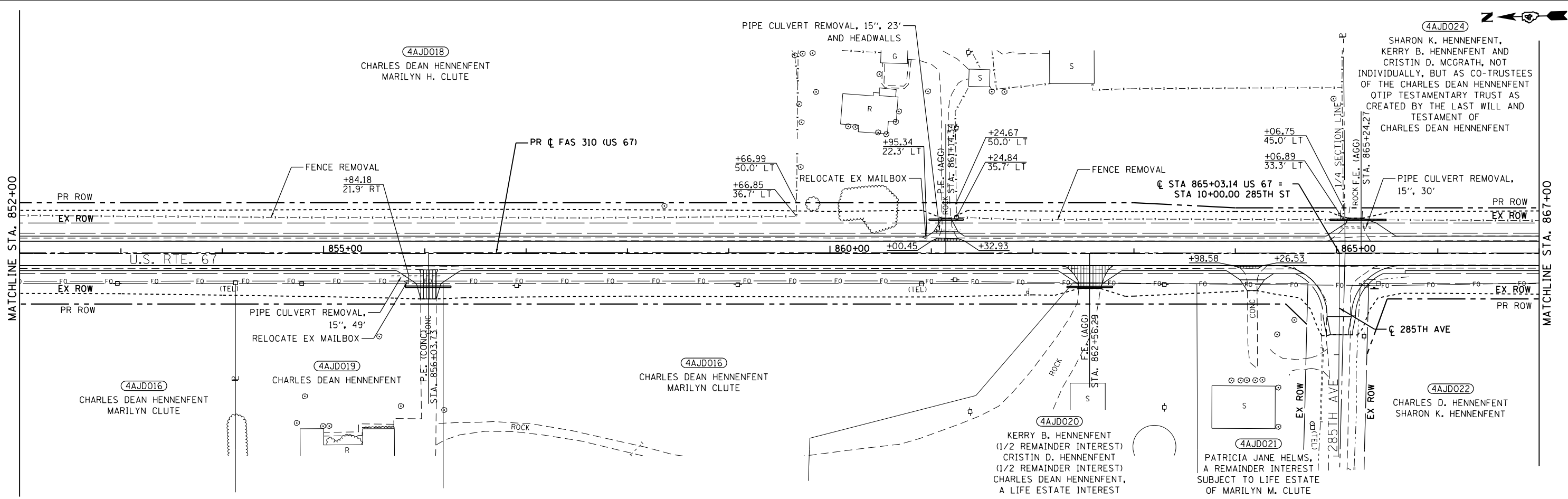
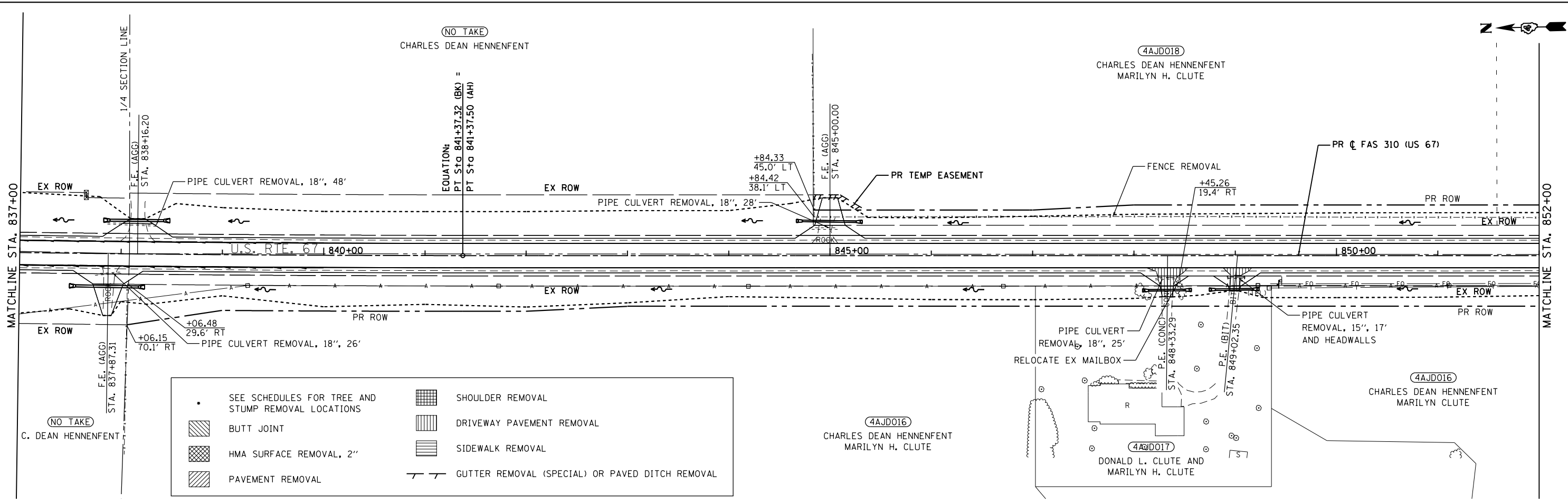
**EFK Moen**  
Civil Engineering Design

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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVALS</b>	
SCALE: 1"=50'	SHEET 5 OF 10 SHEETS
STA. 807+00 TO STA. 837+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	139
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



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**EFK Moen**  
Civil Engineering Design

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

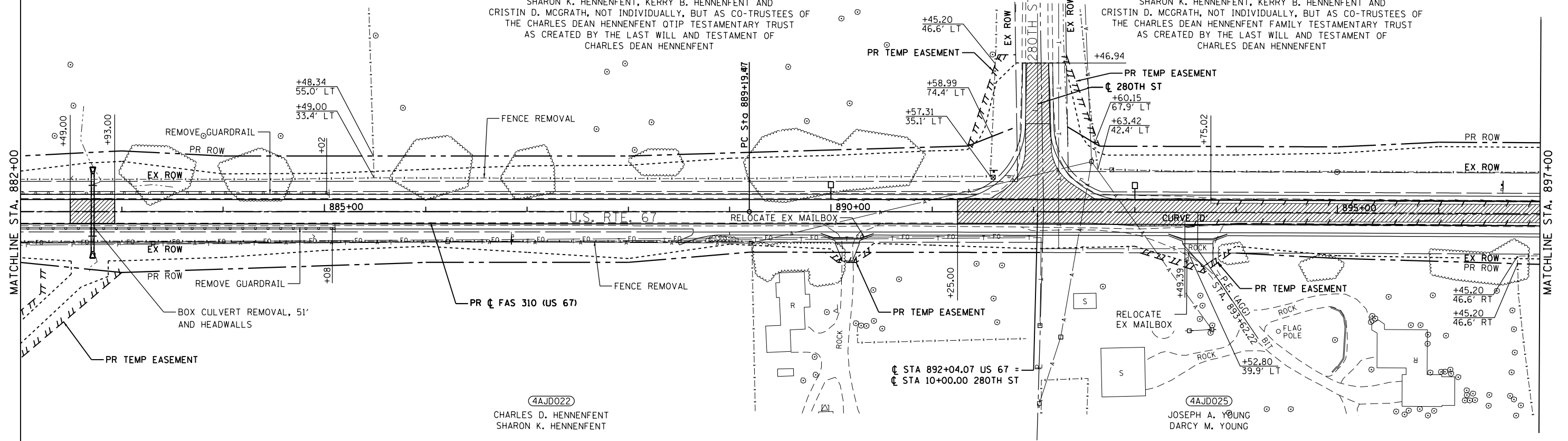
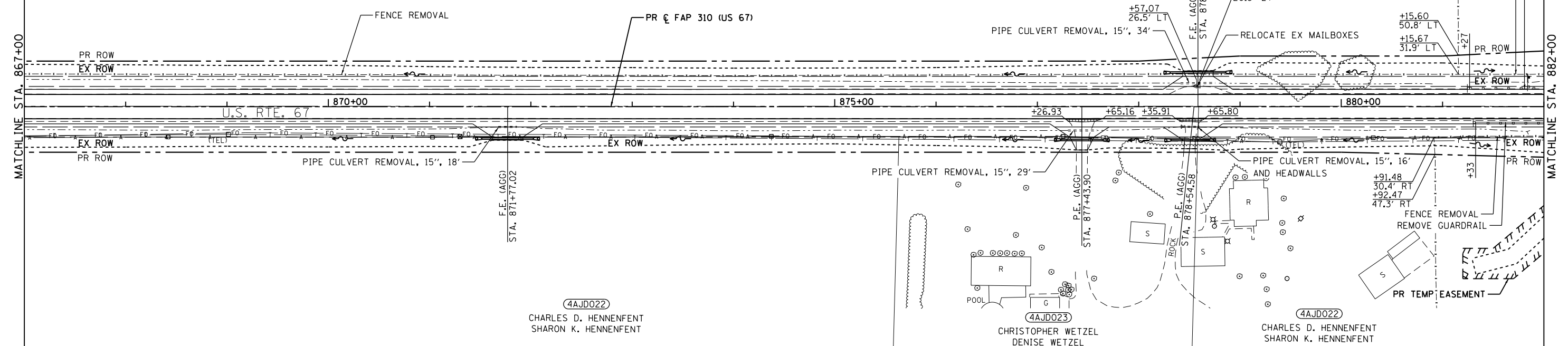
**REMOVALS**

SCALE: 1"=50'      SHEET 6 OF 10 SHEETS      STA. 837+00 TO STA. 867+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	140
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

- SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS
- [Hatched Box] BUTT JOINT
- [Cross-hatched Box] HMA SURFACE REMOVAL, 2"
- [Diagonal Lines] PAVEMENT REMOVAL
- [Grid Pattern] SHOULDER REMOVAL
- [Vertical Lines] DRIVEWAY PAVEMENT REMOVAL
- [Horizontal Lines] SIDEWALK REMOVAL
- [Dashed Line] GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

4AJD024  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT QTIP TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT



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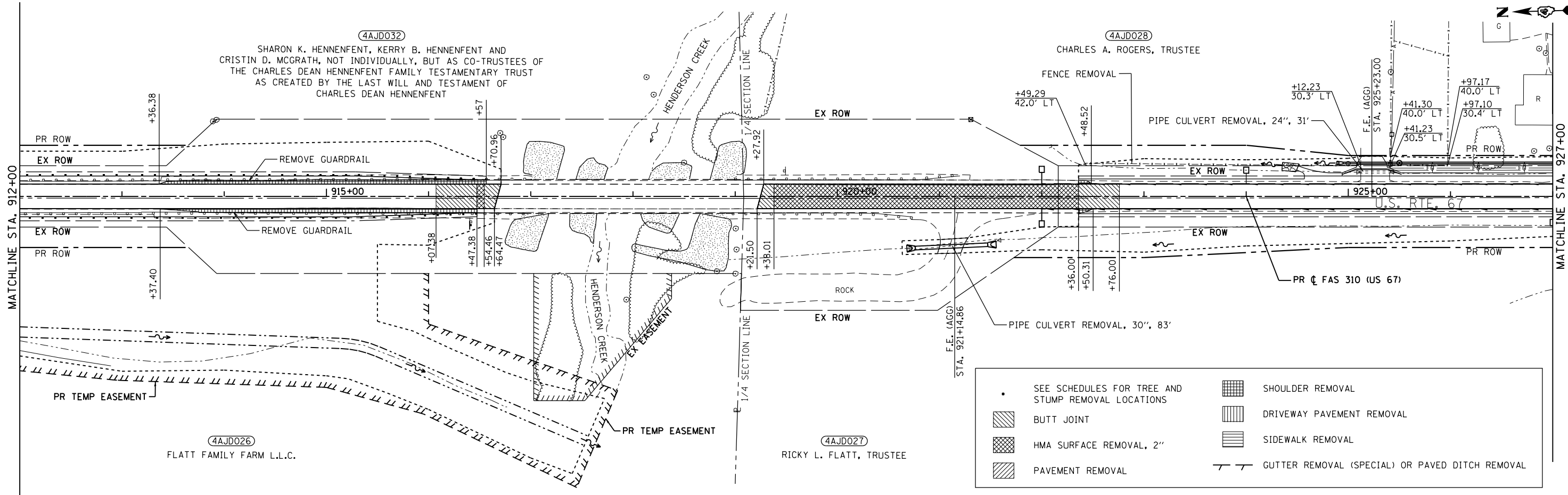
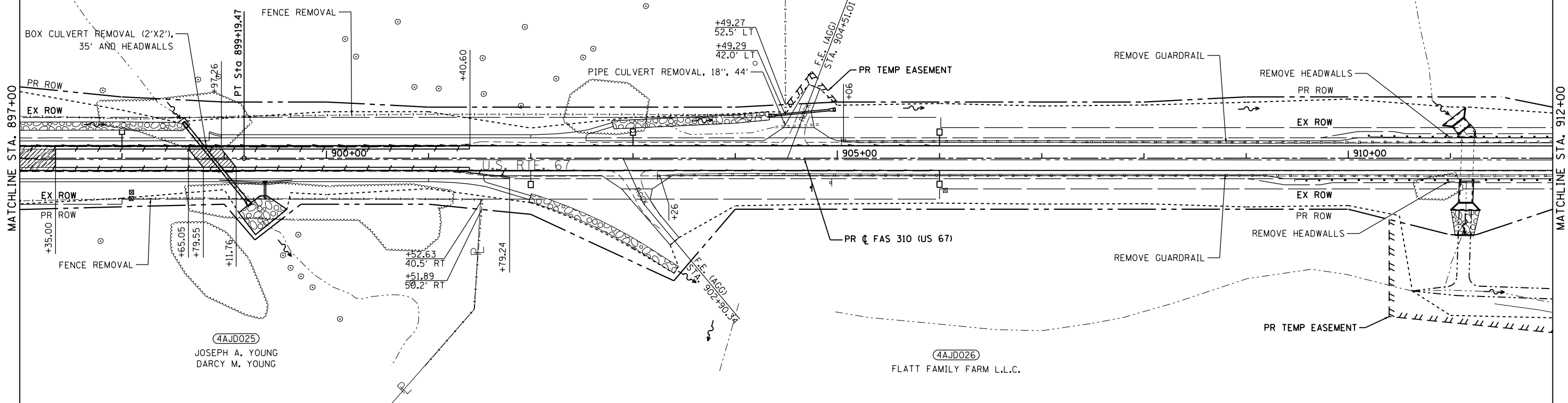
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	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REMOVALS		
SCALE: 1"=50'	SHEET 7 OF 10 SHEETS	STA. 867+00 TO STA. 897+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	141
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

4AJD032  
 SHARON K. HENNFENT, KERRY B. HENNFENT AND  
 CRISTIN D. MCGRATH, NOT INDIVIDUALLY, BUT AS CO-TRUSTEES OF  
 THE CHARLES DEAN HENNFENT FAMILY TESTAMENTARY TRUST  
 AS CREATED BY THE LAST WILL AND TESTAMENT OF  
 CHARLES DEAN HENNFENT



- SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS
- ▨ BUTT JOINT
- ▨ HMA SURFACE REMOVAL, 2"
- ▨ PAVEMENT REMOVAL
- ▨ SHOULDER REMOVAL
- ▨ DRIVEWAY PAVEMENT REMOVAL
- ▨ SIDEWALK REMOVAL
- ▨ GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

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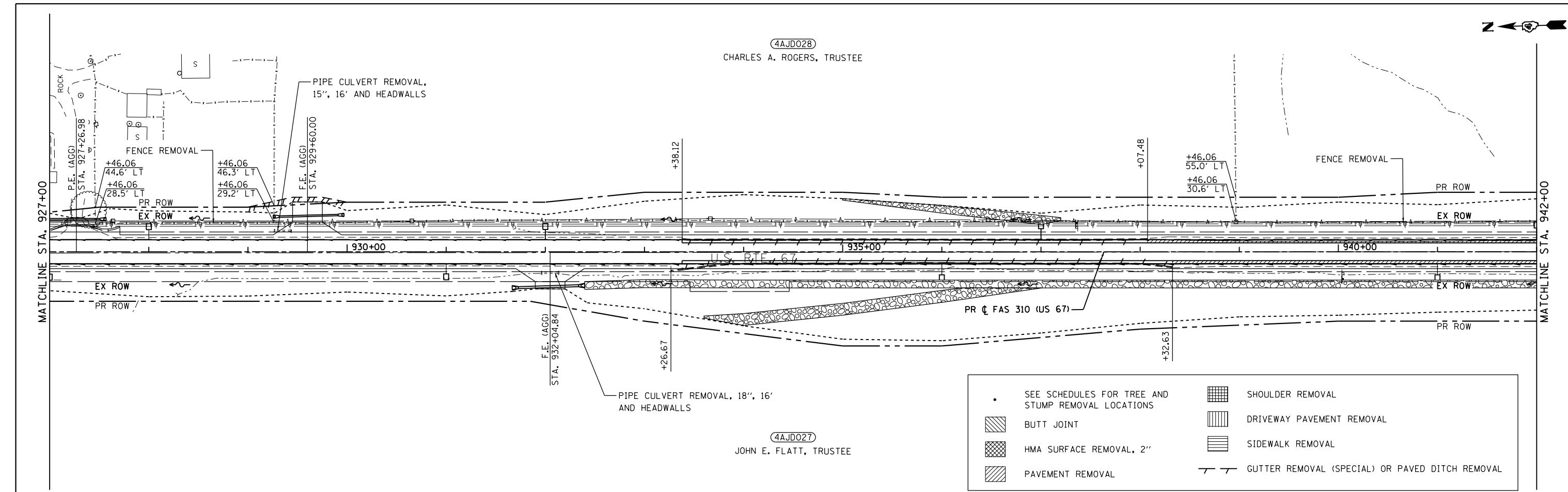
**EFK Moen**  
 Civil Engineering Design

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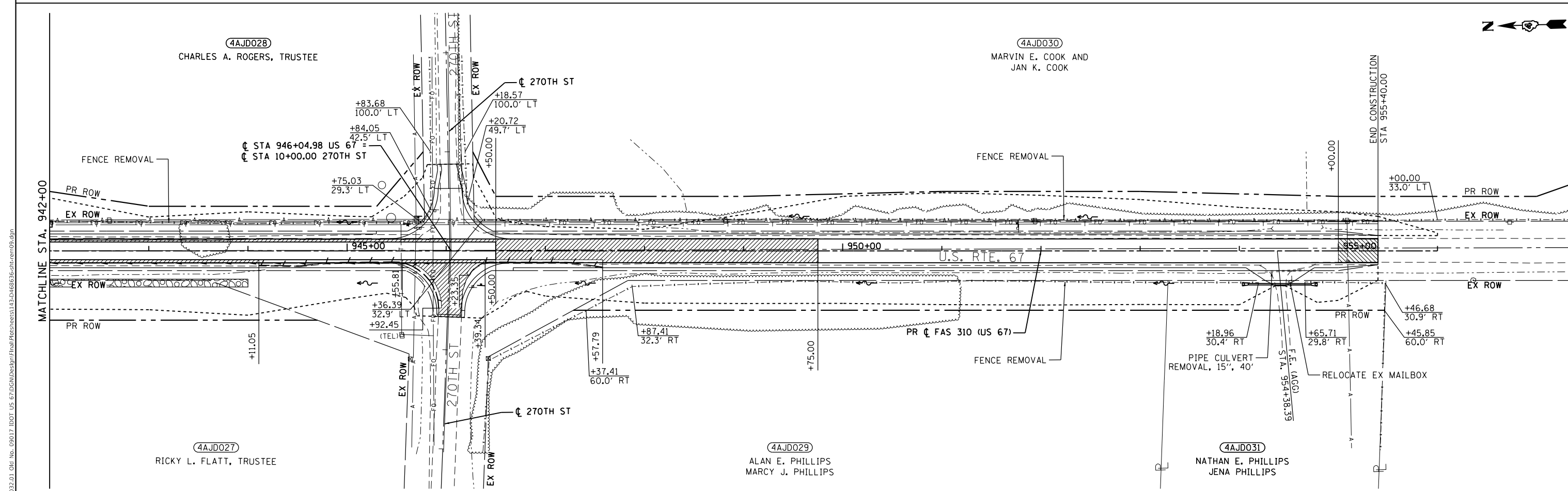
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVALS**  
 SCALE: 1"=50'  
 SHEET 8 OF 10 SHEETS  
 STA. 897+00 TO STA. 927+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	142
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



- SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS
- ▨ BUTT JOINT
- ▩ HMA SURFACE REMOVAL, 2"
- ▧ PAVEMENT REMOVAL
- ▦ SHOULDER REMOVAL
- ▤ DRIVEWAY PAVEMENT REMOVAL
- ▥ SIDEWALK REMOVAL
- / — GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL



**EFK Moen**  
Civil Engineering Design

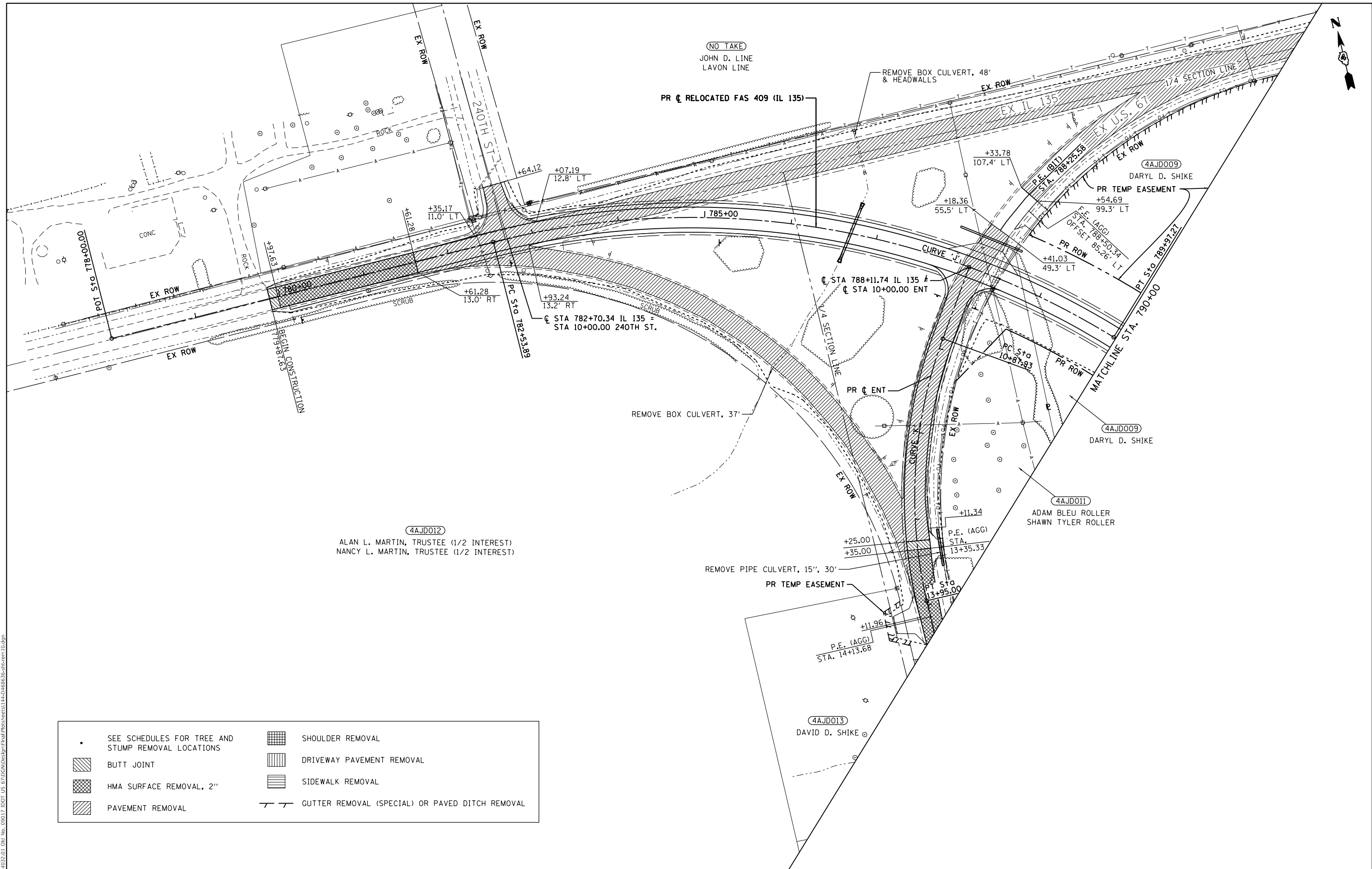
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	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

REMOVALS  
SCALE: 1"=50'  
SHEET 9 OF 10 SHEETS  
STA. 927+00 TO STA. 957+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	143
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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4AJD012  
 ALAN L. MARTIN, TRUSTEE (1/2 INTEREST)  
 NANCY L. MARTIN, TRUSTEE (1/2 INTEREST)

4AJD009  
 DARYL D. SHIKE  
 PR TEMP EASEMENT

4AJD009  
 DARYL D. SHIKE

4AJD011  
 ADAM BLEU ROLLER  
 SHAWN TYLER ROLLER

4AJD013  
 DAVID D. SHIKE

•	SEE SCHEDULES FOR TREE AND STUMP REMOVAL LOCATIONS	[Grid Pattern]	SHOULDER REMOVAL
[Hatched Pattern]	BUTT JOINT	[Vertical Line Pattern]	DRIVEWAY PAVEMENT REMOVAL
[Cross-hatched Pattern]	HMA SURFACE REMOVAL, 2"	[Horizontal Line Pattern]	SIDEWALK REMOVAL
[Diagonal Line Pattern]	PAVEMENT REMOVAL	[Dashed Line Pattern]	GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REMOVALS  
 SCALE: 1"=50'  
 SHEET 10 OF 10 SHEETS  
 STA. 778+00 TO STA. 790+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	144
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -



**Existing Structure:** The existing structure is a single cell reinforced concrete box culvert. The culvert is 42'-6" in length (out-to-out headwalls). The cell width is approximately five (5) feet and the cell height is approximately eight (8) feet. The structure spans north to south and carries one lane each of eastbound and westbound traffic for a total of two (2) lanes. Extend the north end of the culvert 16'-0" and extend the south end of the culvert 10'-4".

**Salvage:** None.

**SCOPE OF WORK**

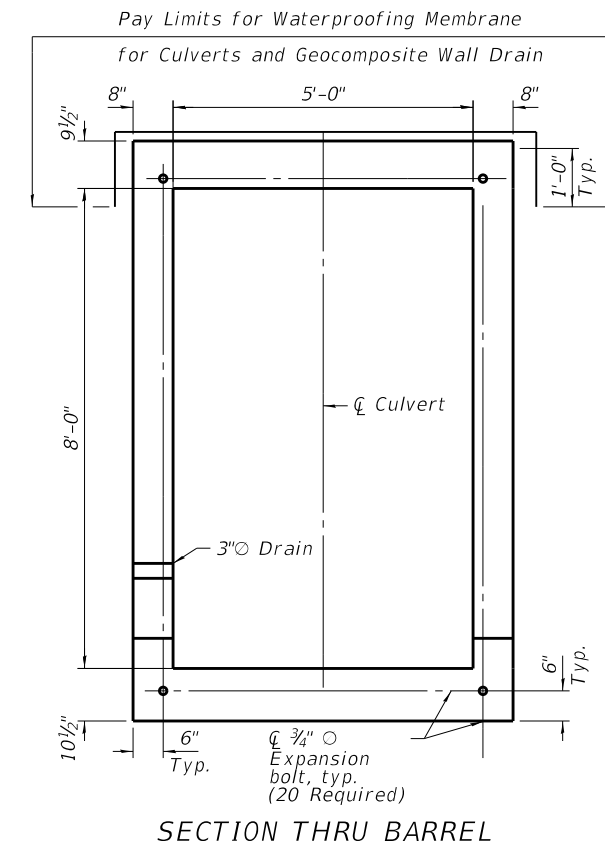
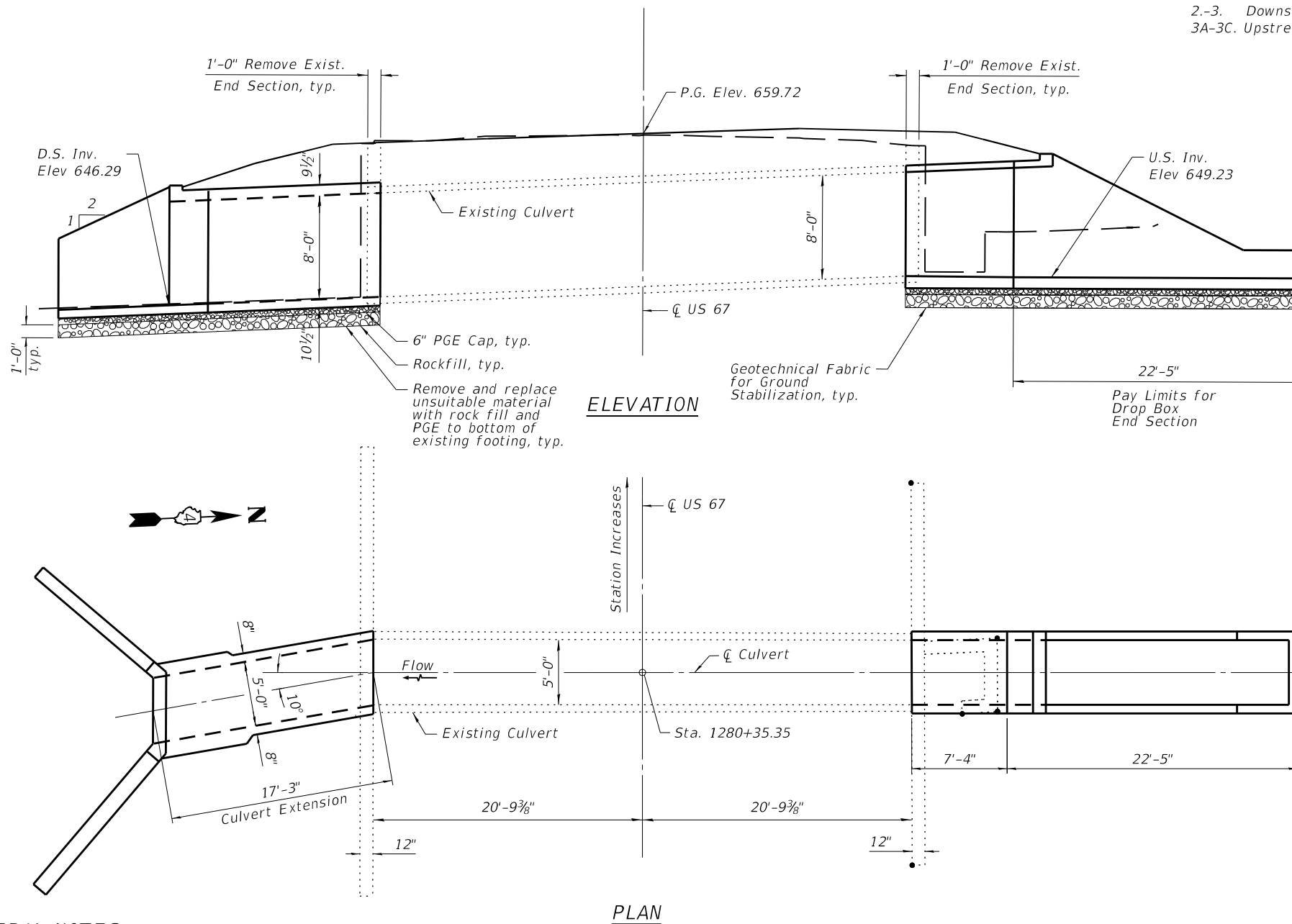
1. Construct the north and south end sections.

**INDEX OF SHEETS**

1. General Plan and Elevation
- 2.-3. Downstream extension and wingwall details
- 3A-3C. Upstream extension and drop box details

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	103
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	39
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	19
Reinforcement Bars, Epoxy Coated	Pound	9,230
Expansion Bolts, 3/4"	Each	40
Concrete Box Culverts	Cu. Yd.	43.5
Geocomposite Wall Drain	Sq. Yd.	22
Drop Box No. 3	Each	1
Membrane Waterproofing System for Buried Structures	Sq. Yd.	22
Remove Concrete Box Culvert End Section	Each	2
Rock Fill	Ton	20



Signed: \_\_\_\_\_  
 Date: 1/29/2021  
 License Expires: 11/30/2022

**GENERAL NOTES**

- The design fill height for this box is 1.0 ft.
- The 6 in. thick layer of porous granular material required for the concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- Concrete box culverts shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.
- Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and a minimum of 5" into existing concrete.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS-20**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

**SECTION THRU BARREL**

**GENERAL PLAN AND ELEVATION**  
**US RTE. 67 OVER DRAINAGE DITCH**  
**F.A.P. RTE. 310 SEC. 101W-1,RS-2; 28W-1,RS-5**  
**WARREN/MERCER COUNTY**  
**STATION 1280+35.35**

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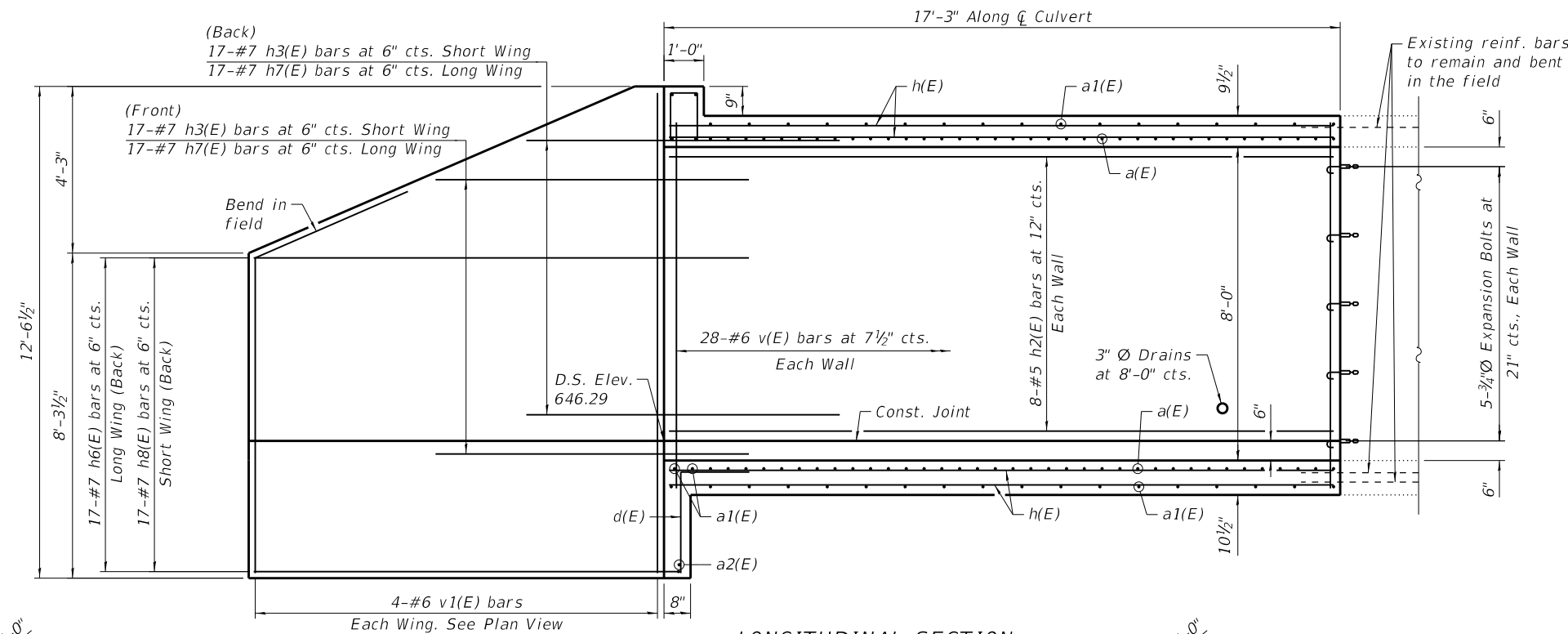
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

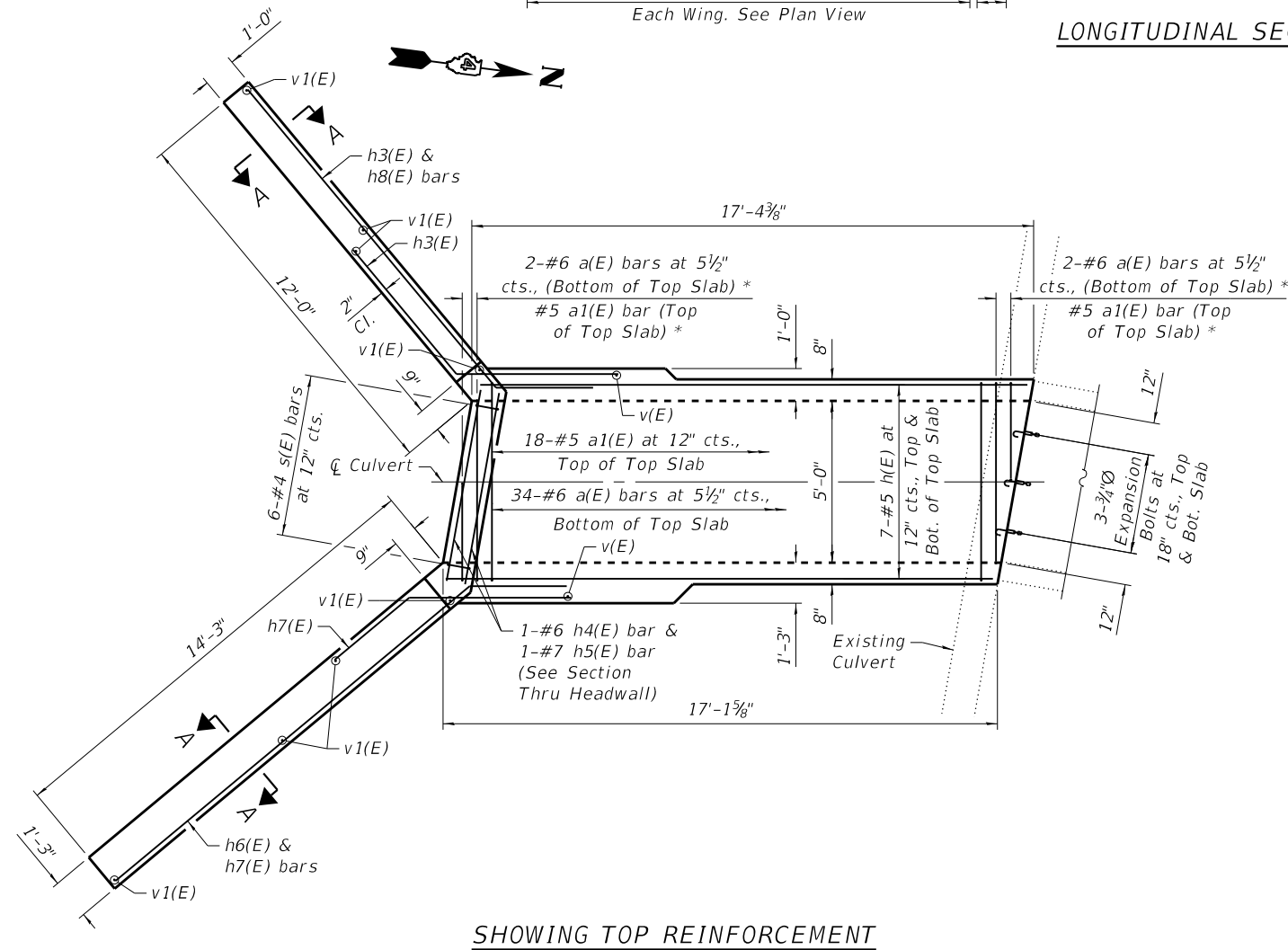
**GENERAL PLAN AND ELEVATION**  
**CULVERT EXTENSION 1**  
 SHEET 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	145

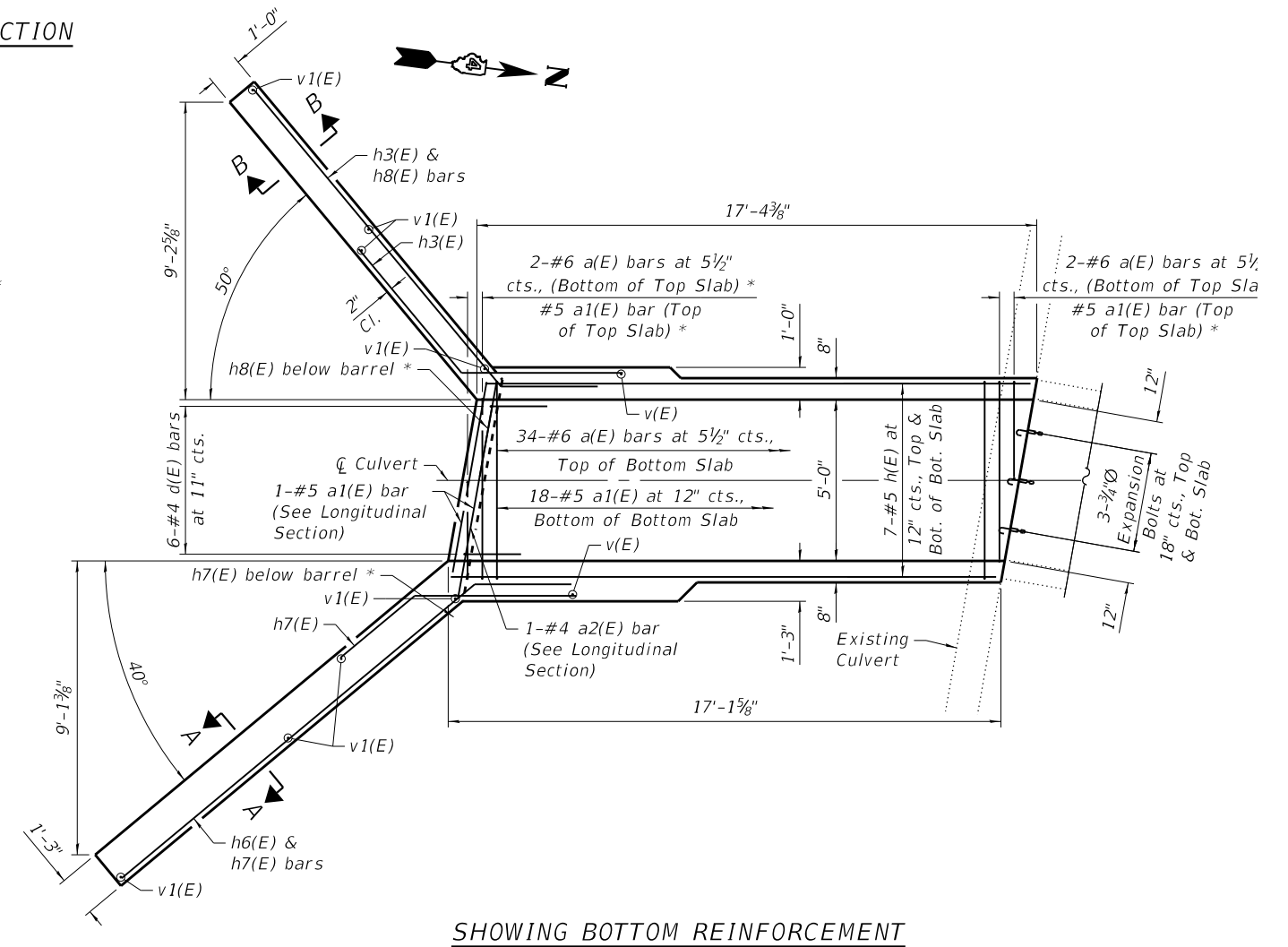
CONTRACT NO. 68636  
 ILLINOIS FED. AID PROJECT



LONGITUDINAL SECTION



SHOWING TOP REINFORCEMENT



SHOWING BOTTOM REINFORCEMENT

PLAN

\* Cut to fit

MODEL: Default  
FILE NAME: 146-D468636-shl-box1\_02.dgn

**EFK Moen**  
Civil Engineering Design

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

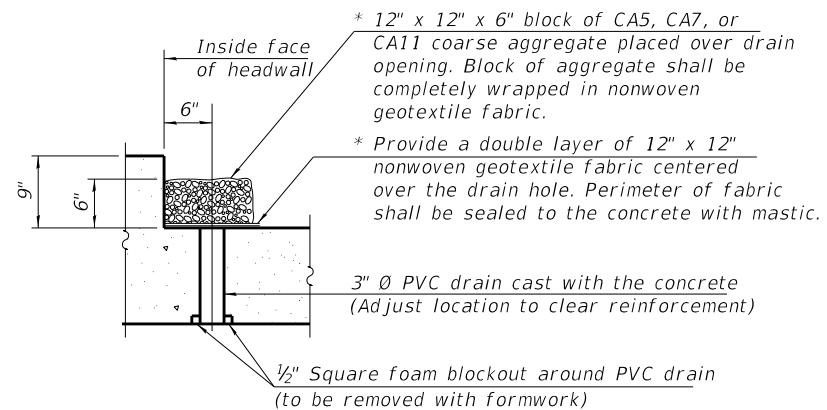
IL RTE. 67  
BOX CULVERT EXTENSION DETAILS

SHEET 2 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	146
CONTRACT NO. 68636				

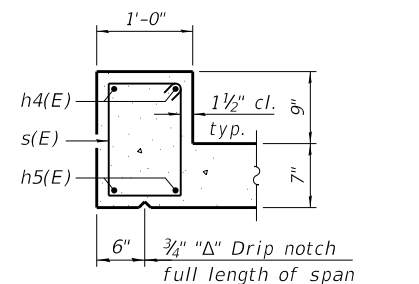
ILLINOIS FED. AID PROJECT

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

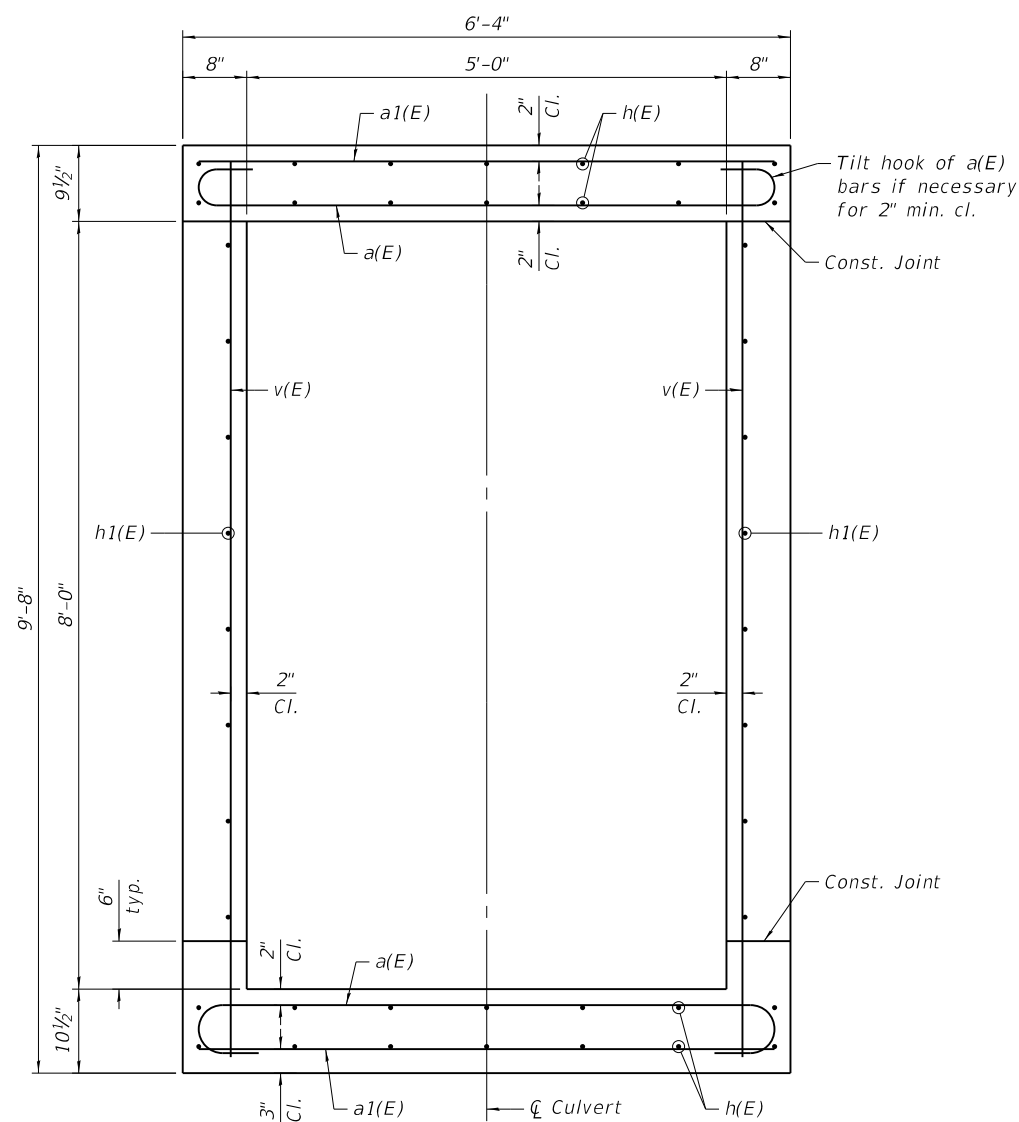


**DRAIN DETAIL**

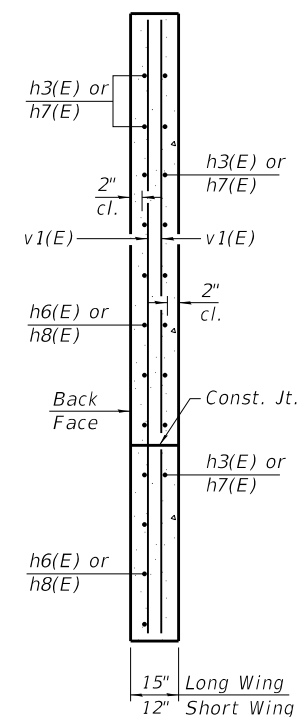
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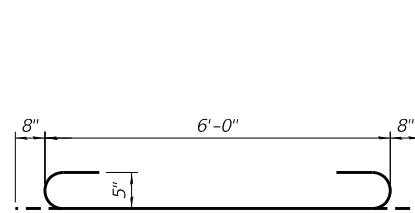
**SECTION THRU HEADWALL**



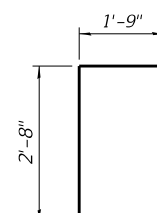
**SECTION THRU BARREL**



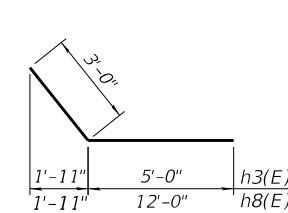
**SECTION A-A**



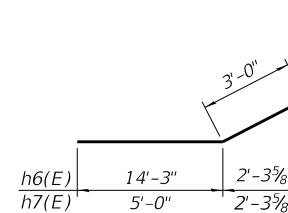
**BAR a(E)**



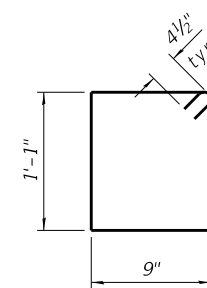
**BAR d(E)**



**BARS h3(E) & h8(E)**



**BARS h6(E) & h7(E)**



**s(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	216	#6	7'-4"	U
a1(E)	38	#5	6'-0"	—
a2(E)	1	#4	6'-0"	—
d(E)	6	#4	4'-5"	L
h(E)	14	#5	16'-11"	—
h1(E)	14	#5	16'-11"	—
h2(E)	14	#5	16'-11"	—
h3(E)	30	#7	8'-0"	—
h4(E)	2	#6	6'-1"	—
h5(E)	2	#7	6'-1"	—
h6(E)	17	#7	17'-3"	—
h7(E)	30	#7	8'-0"	—
h8(E)	17	#7	15'-0"	—
s(E)	6	#4	4'-5"	□
v(E)	58	#6	9'-4"	—
v1(E)	8	#6	12'-2"	—
Concrete Box Culverts	Cu. Yd.	25.4		
Reinforcement Bars, Epoxy Coated	Pound	4,960		
Expansion Bolts, 3/4 Inch	Each	20		

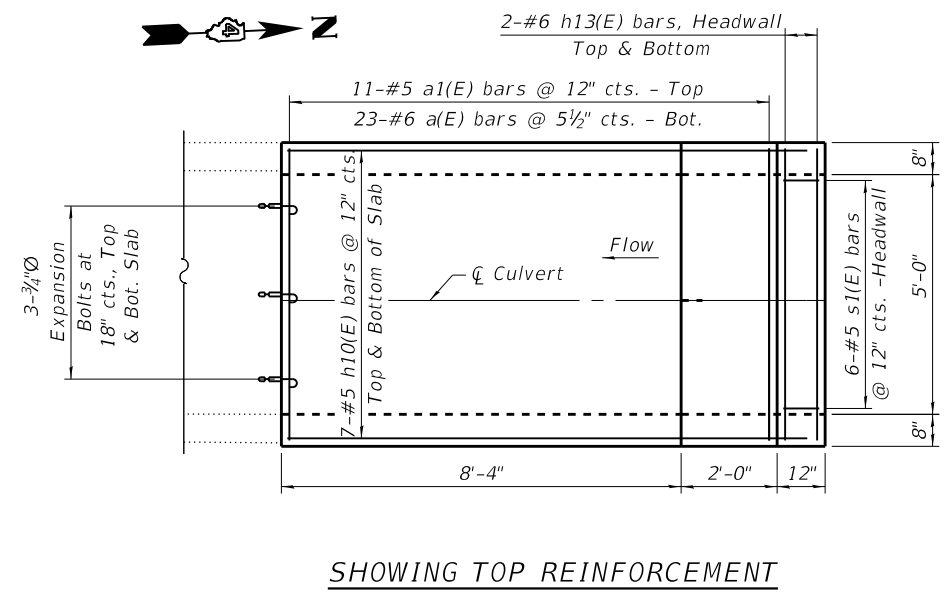
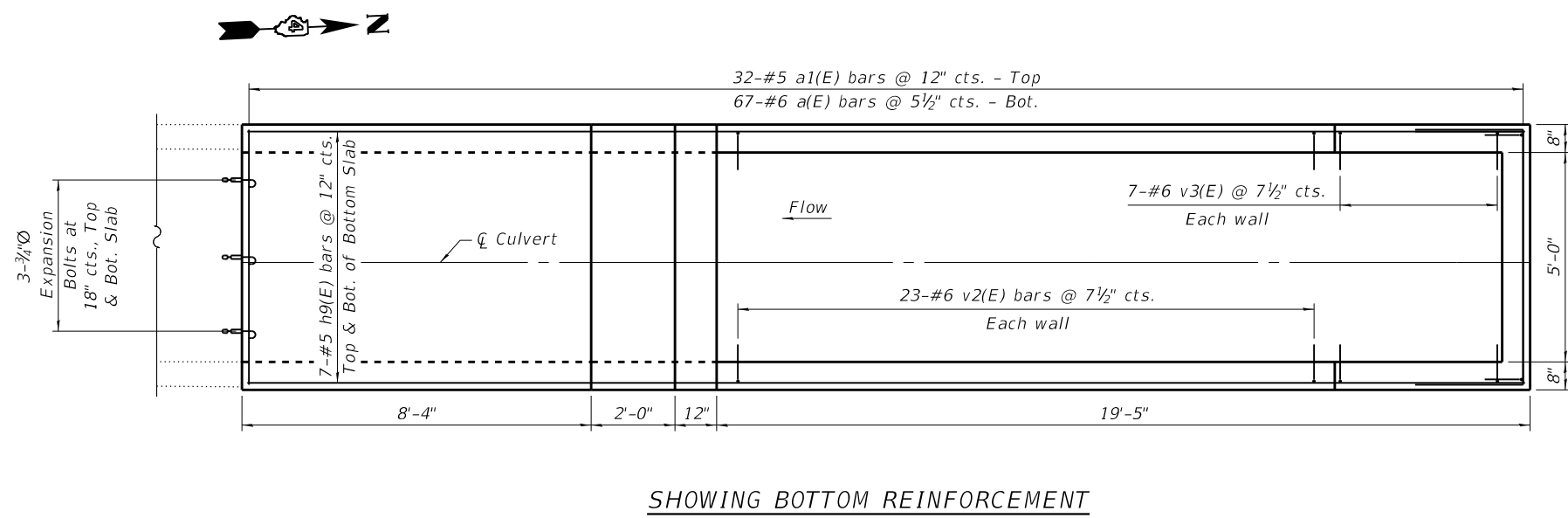
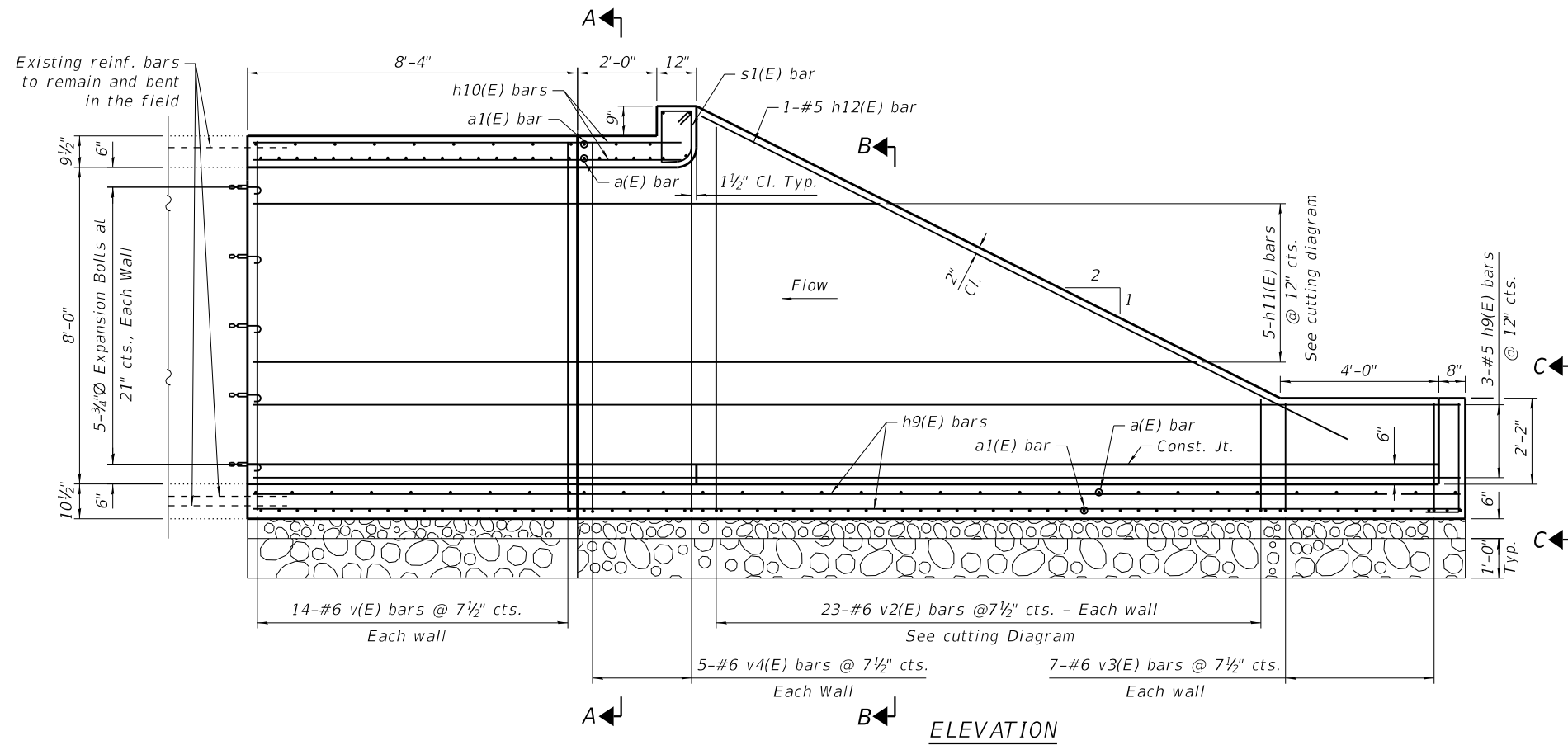
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL RTE. 67  
BOX CULVERT EXTENSION DETAILS

SHEET 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	147
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = \$DATE	DRAWN - MJM	REVISED -
	CHECKED - CDL	REVISED -



**PLAN**

MODEL: Default  
FILE NAME: 147A-D468636-shc-box1\_3A.dgn

**EFK Moen**  
Civil Engineering Design

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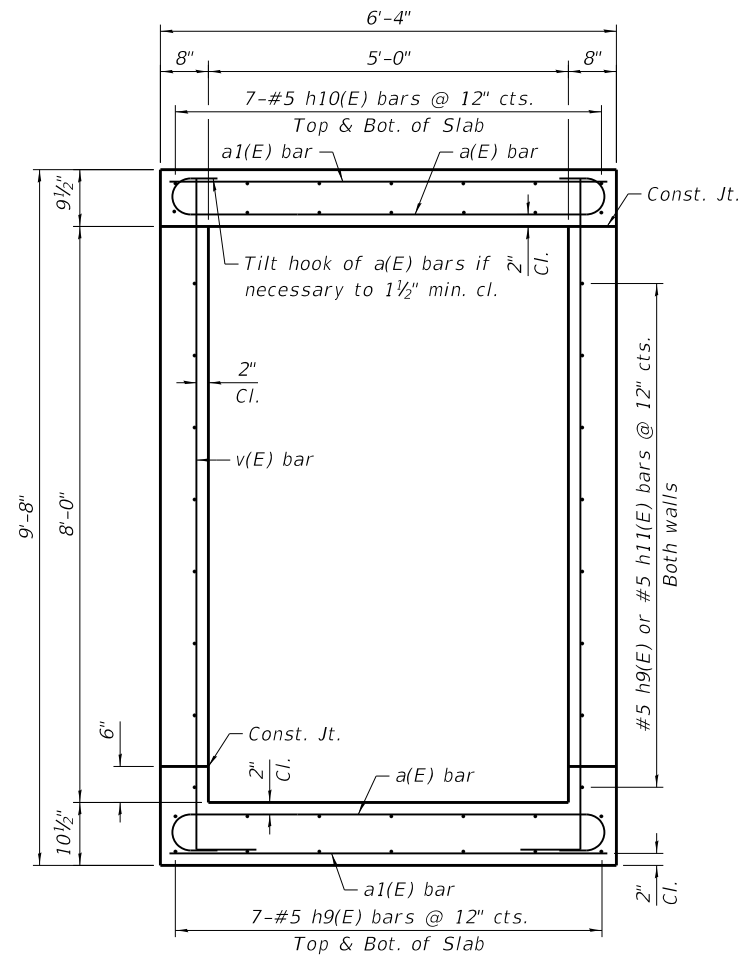
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**DROP BOX NO. 3**

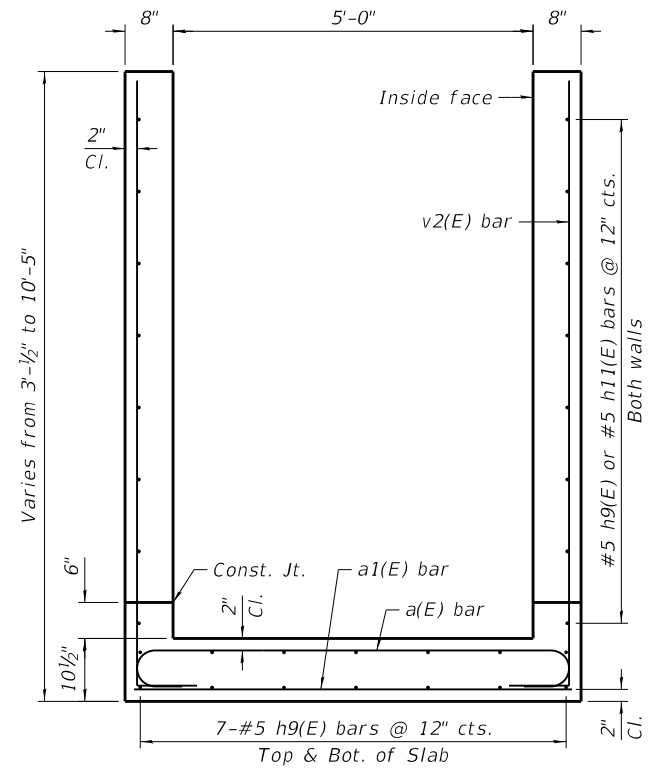
SHEET 3A OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2;28W-1,RS-5	WARREN/MERCER	234	147A
CONTRACT NO. 68636				

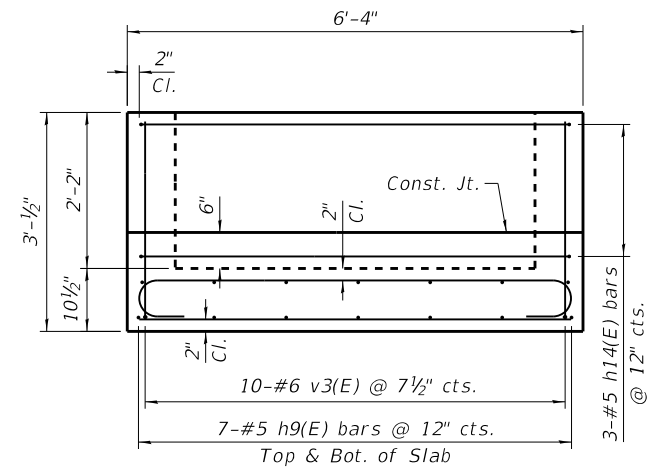
ILLINOIS FED. AID PROJECT



**SECTION A-A**



**SECTION B-B**



**VIEW C-C**

MODEL: Default  
FILE NAME: 147B-D468636-shc-box1\_3B.dgn

**EFK Moen**  
Civil Engineering Design

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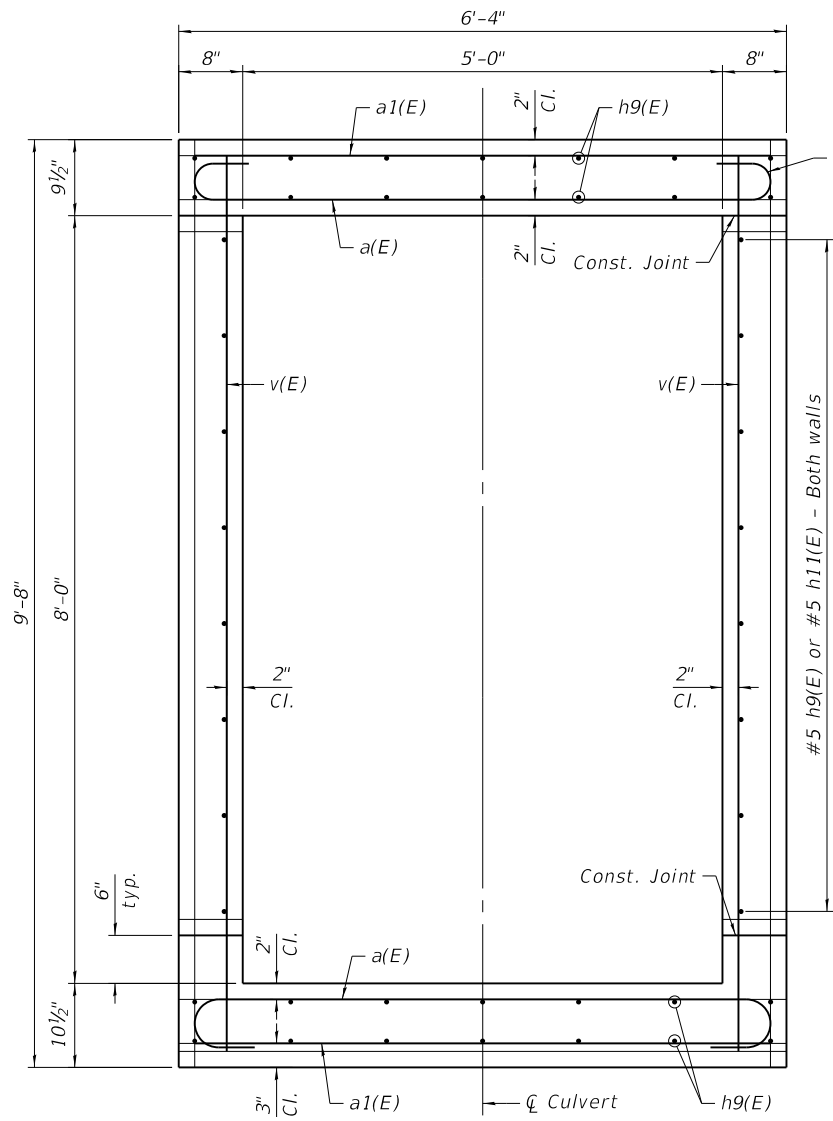
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

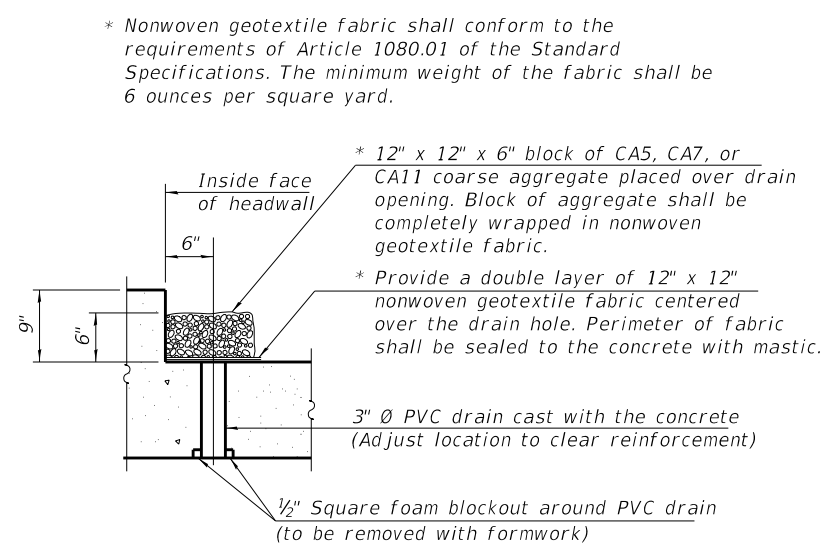
**DETAILS**  
**DROP BOX NO. 3**

SHEET 3B OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	147B
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

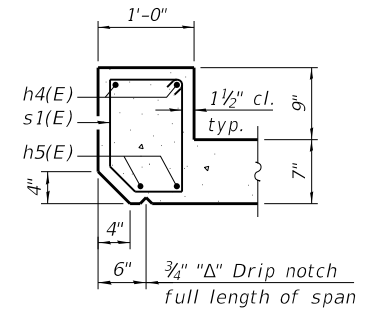


**SECTION THRU BARREL**



**DRAIN DETAIL**

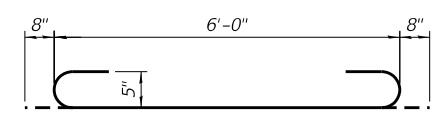
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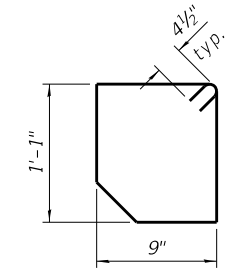
**SECTION THRU HEADWALL**

**BILL OF MATERIAL**

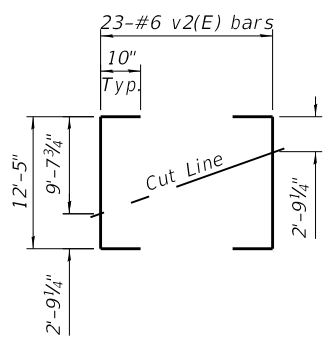
Bar	No.	Size	Length	Shape
a(E)	90	#6	7'-4"	U
a1(E)	43	#5	6'-0"	—
h4(E)	2	#6	6'-1"	—
h5(E)	2	#7	6'-1"	—
h9(E)	20	#5	30'-6"	—
h10(E)	14	#5	10'-10"	—
h11(E)	10	#5	39'-8"	—
h12(E)	2	#5	18'-3"	—
h13(E)	4	#5	6'-0"	—
h14(E)	3	#5	11'-2"	U
s1(E)	6	#4	4'-4"	D
v(E)	28	#6	9'-4"	—
v2(E)	46	#6	14'-1"	U
v3(E)	24	#6	3'-7"	—
v4(E)	10	#6	10'-2"	—
Concrete Box Culverts	Cu. Yd.	18.1		
Reinforcement Bars, Epoxy Coated	Pound	4,270		
Expansion Bolts, 3/4 Inch	Each	20		



**BAR a(E)**

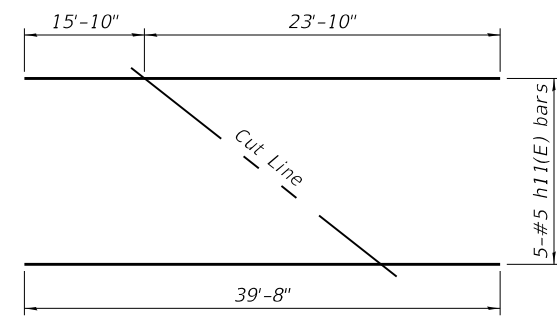


**BAR s1(E)**



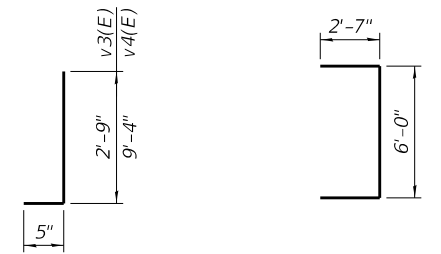
**BAR v2(E) FIELD CUTTING DIAGRAM**

Order v2(E) bars full length. Cut to fit as shown and use remainder of bars in opposite wall.



**BAR h11(E) FIELD CUTTING DIAGRAM**

Order h11(E) bars full length. Cut to fit as shown and use remainder of bars in opposite wall.



**BARS v3(E) & v4(E) BAR h14(E)**

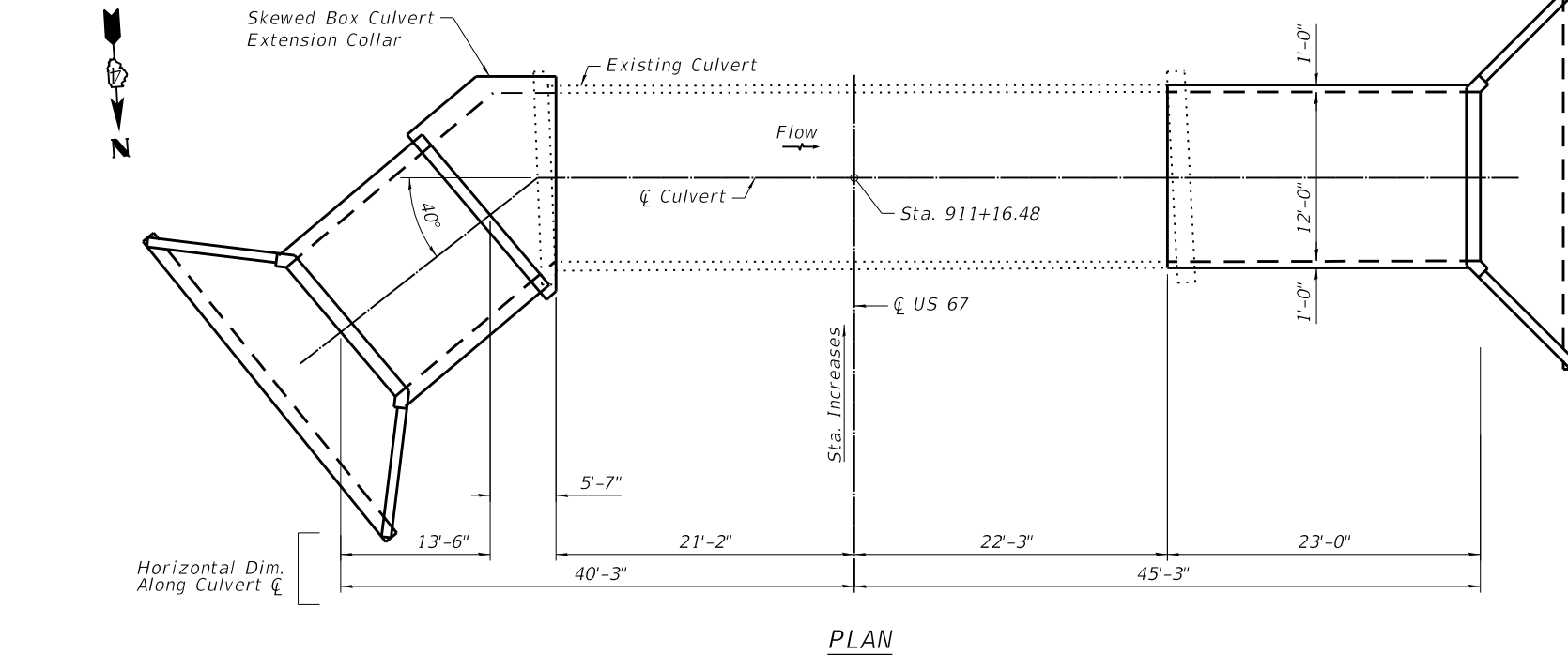
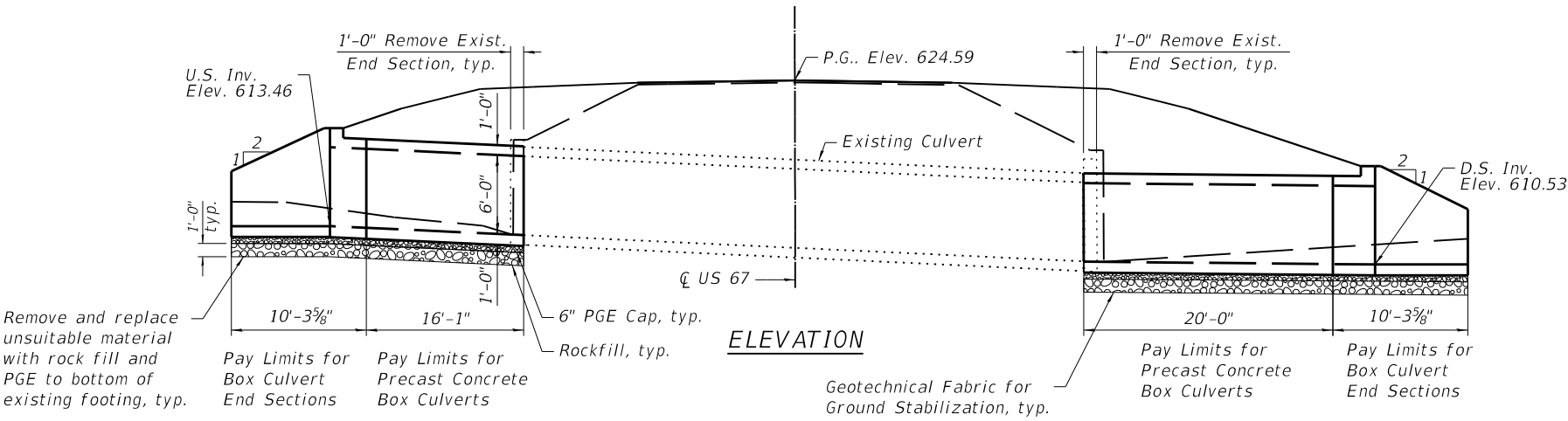
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	147C
CONTRACT NO. 68636				

Existing Structure: The existing structure is a single cell reinforced concrete box culvert. The culvert is 45'-10" in length (out-to-out headwalls). The cell width is approximately twelve (12) feet and the cell height is approximately six (6) feet. The structure spans east to west and carries one lane each of northbound and southbound traffic for a total of two (2) lanes. Extend the east end of the culvert 17'-9" and extend the west end of the culvert 22'-0".

Salvage: None.



**GENERAL NOTES**

- The design fill height for this box is 1.0 ft. The precast box culvert end sections should conform to the requirements of ASTM C 1577.
- The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
- Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- Precast concrete box culverts and concrete box culverts shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.
- Expansion bolts shall be 3/4" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and a minimum of 5" into existing concrete.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

**SCOPE OF WORK**

- Construct the east and west end sections.

**INDEX OF SHEETS**

- General Plan and Elevation
- 3. Precast Concrete Box Culvert Apron End
- 3A Concrete Collar Detail

**DESIGN SPECIFICATIONS**

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

**LOADING HS-20**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN STRESSES**

**PRECAST UNITS**

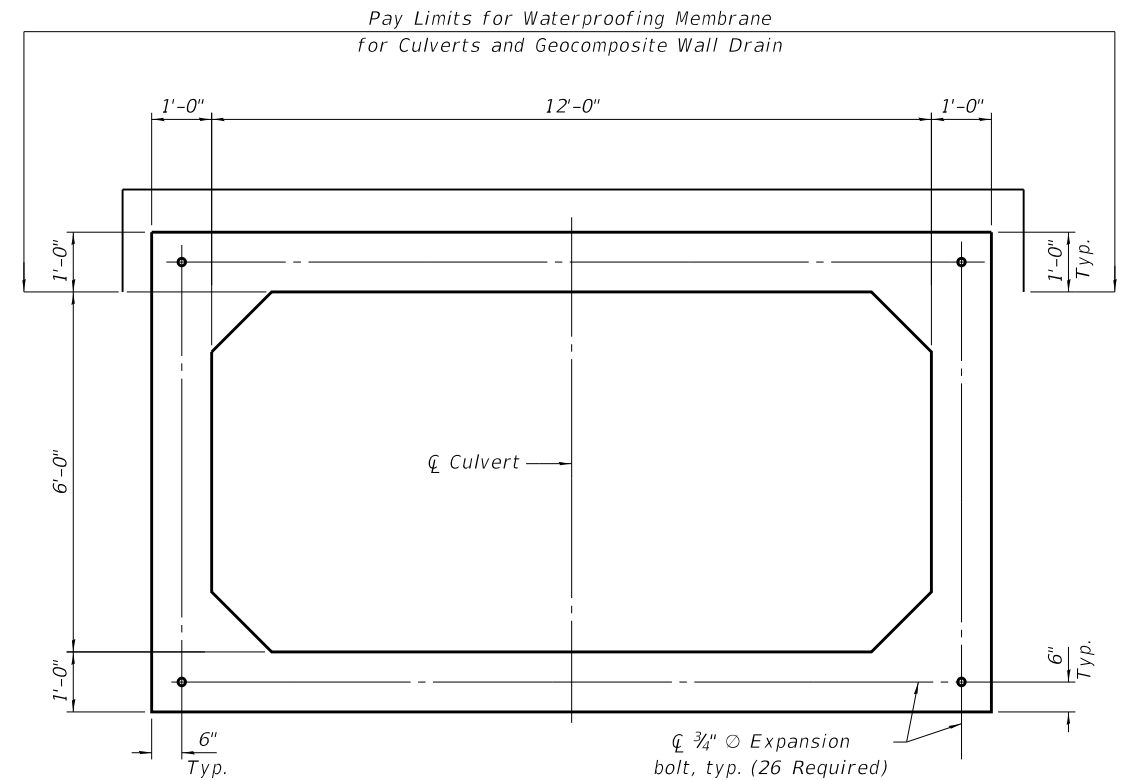
f'c = 5,000 psi  
fy = 65,000 psi (Welded Wire Reinforcement)

**FIELD UNITS**

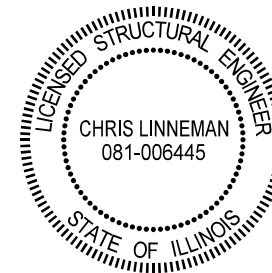
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	72
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	102
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	51
Reinforcement Bars, Epoxy Coated	Pound	960
Box Culvert End Sections, Culvert No. 2	Each	2
Expansion Bolts, 3/4"	Each	52
Precast Concrete Box Culverts, 12'x6'	Foot	36
Concrete Collar	Cu. Yd.	10.0
Geocomposite Wall Drain	Sq. Yd.	60
Membrane Waterproofing System for Buried Structures	Sq. Yd.	60
Remove Concrete Box Culvert End Section	Each	2
Rock Fill	Ton	52



**SECTION THRU BARREL**



Signed: *[Signature]*  
Date: 1/29/2021  
License Expires: 11/30/2022

**GENERAL PLAN AND ELEVATION**  
**US RTE. 67 OVER DRAINAGE DITCH**  
**F.A.P. RTE. 310 SEC. 101W-1,RS-2; 28W-1,RS-5**  
**WARREN COUNTY**  
**STATION 911+16.48**

MODEL: Default  
FILE NAME: 148-D468636-sht-box2\_01.dgn

**EFK•Moen**  
Civil Engineering Design

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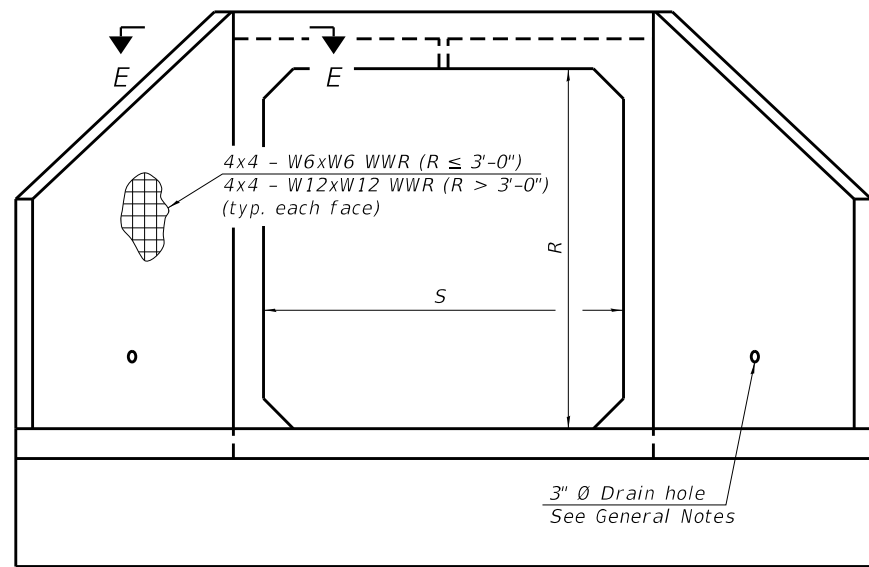
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION**  
**PRECAST CULVERT EXTENSION 2**

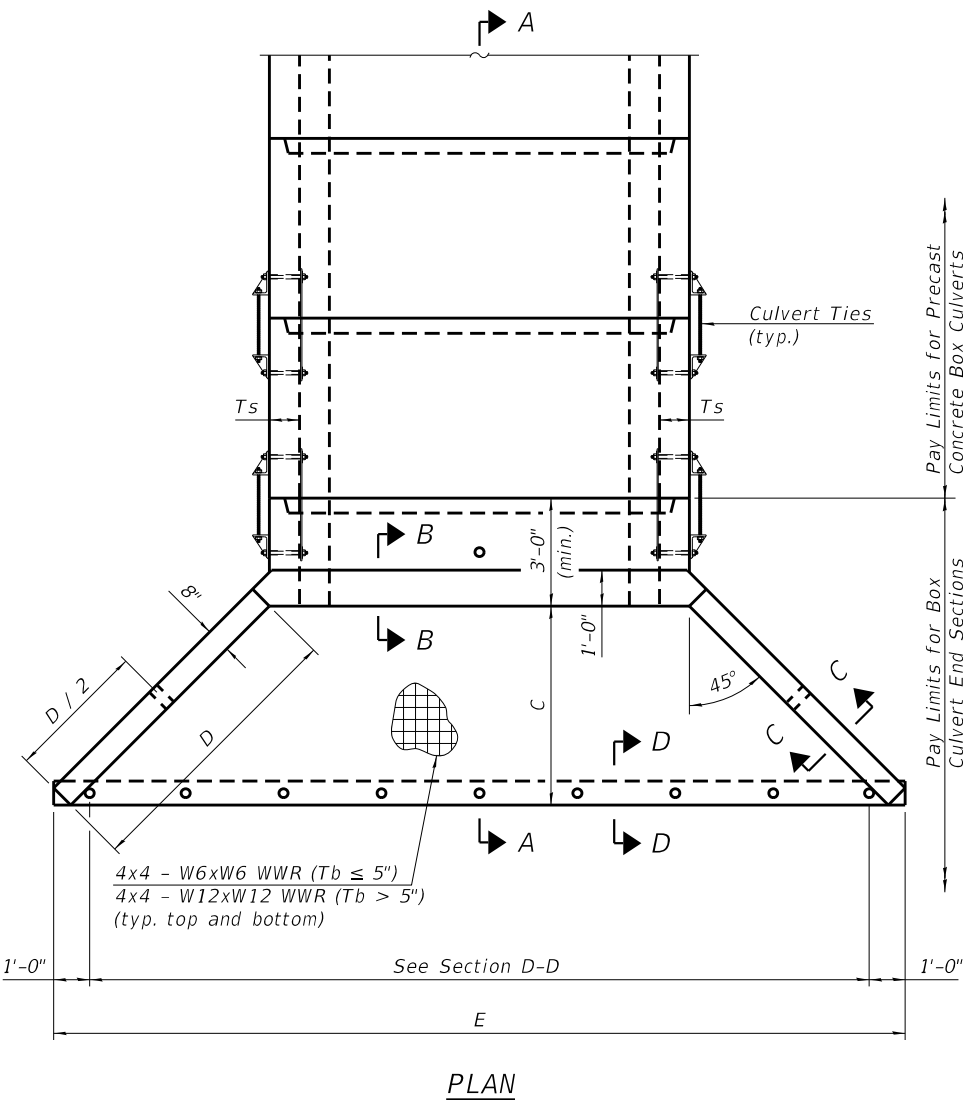
SHEET 1 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	148
CONTRACT NO. 68636				

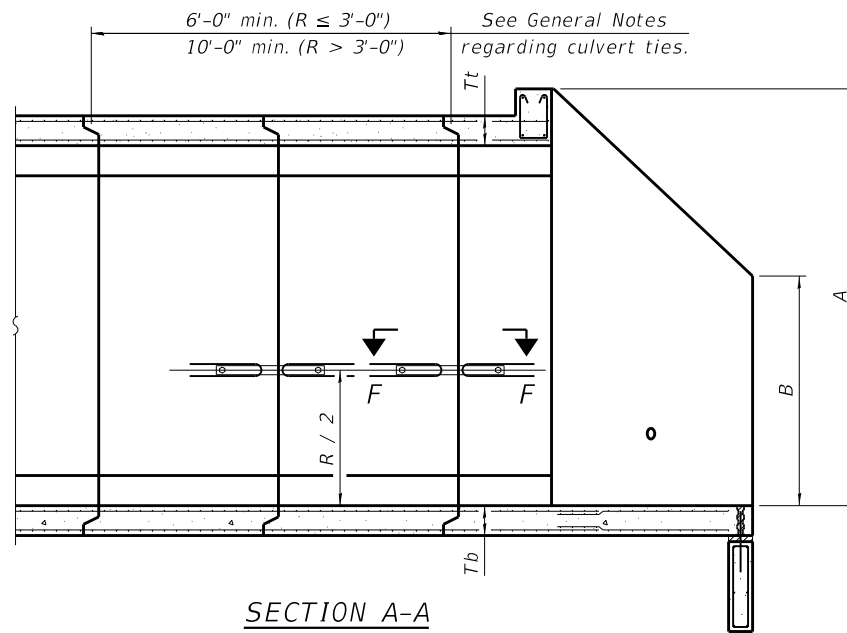
ILLINOIS FED. AID PROJECT



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included in the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
2'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	10'-4 3/8"	2.7	Yes
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	10'-4 3/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 7/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	12'-4 3/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 7/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 7/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 7/8"	6.8	Yes
5'-0"	8'-0"	8"	8"	8"	9'-5"	5'-6"	8'-3 3/4"	11'-9"	23'-10 7/8"	14.5	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	15'-10 3/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 7/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 7/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 7/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 7/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 7/8"	4'-7"	20'-3 7/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	22'-3 7/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 7/8"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 1/2"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 3/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 3/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 3/8"	10'-4"	29'-6 3/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

MODEL: Default  
FILE NAME: 139-D468636-shl-box2\_02.dgn

**EFK Moen**  
Civil Engineering Design

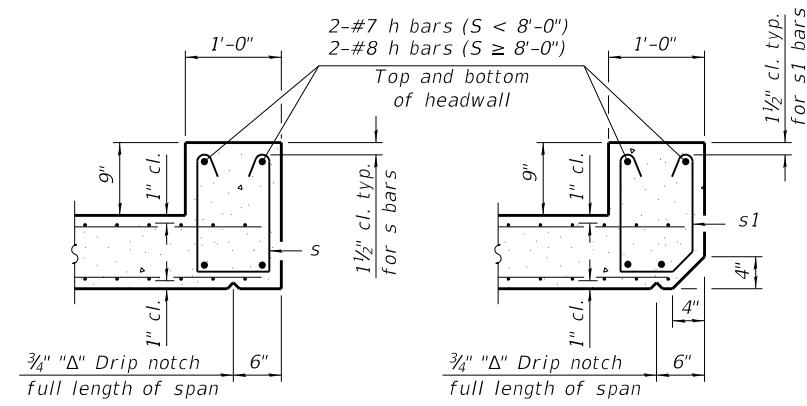
USER NAME = zWaters	DESIGNED - MJM	REVISED -
PLOT SCALE = 0.1667/1in	CHECKED - CDL	REVISED -
PLOT DATE = \$DATE	DRAWN - MJM	REVISED -
	CHECKED - CDL	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - PRECAST CULVERT EXTENSION 2

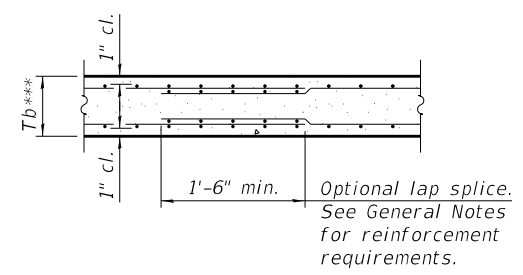
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2;28W-1,RS-5	WARRENMERCER	234	149
CONTRACT NO. 68636				
SHEET 2 OF 3 SHEETS				
ILLINOIS FED. AID PROJECT				





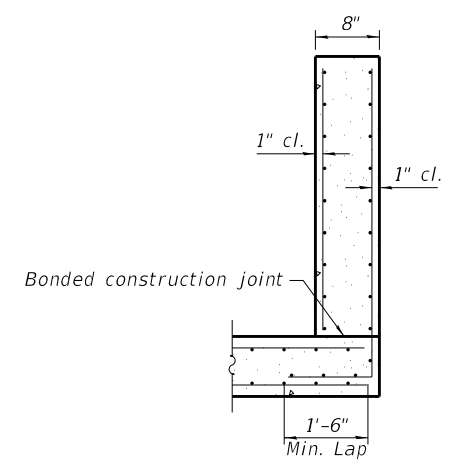
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

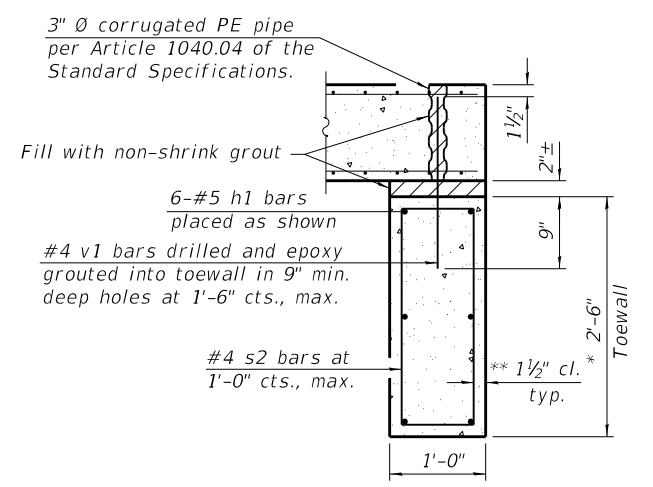


**SECTION B-B**  
(Bottom Slab)

\*\*\* This dimension shall be increased by 2" for CIP construction.



**SECTION C-C**



**SECTION D-D**

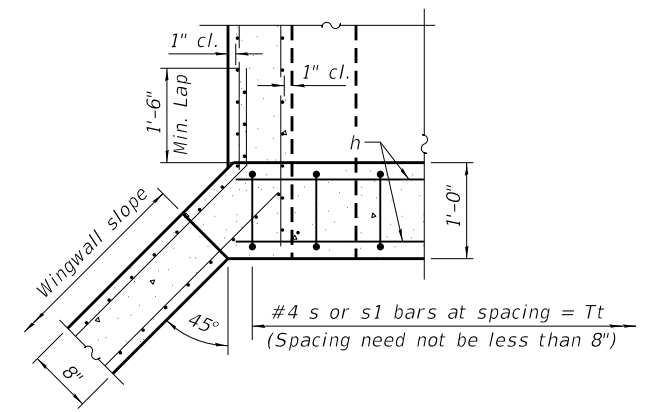
**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

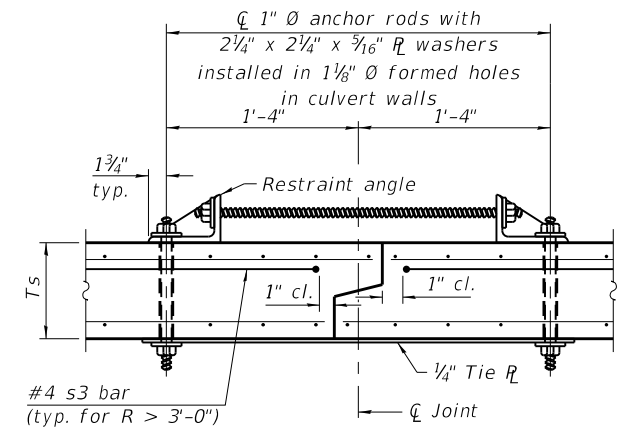
\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

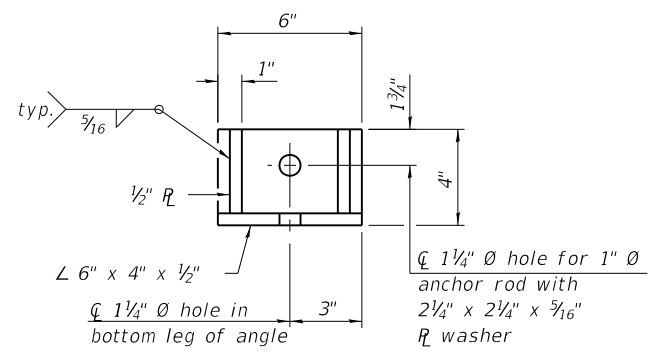
Notes:  
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



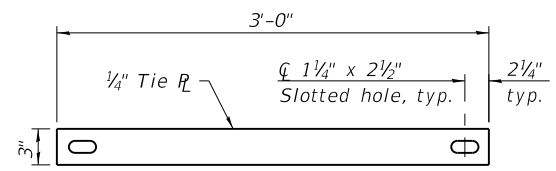
**SECTION E-E**



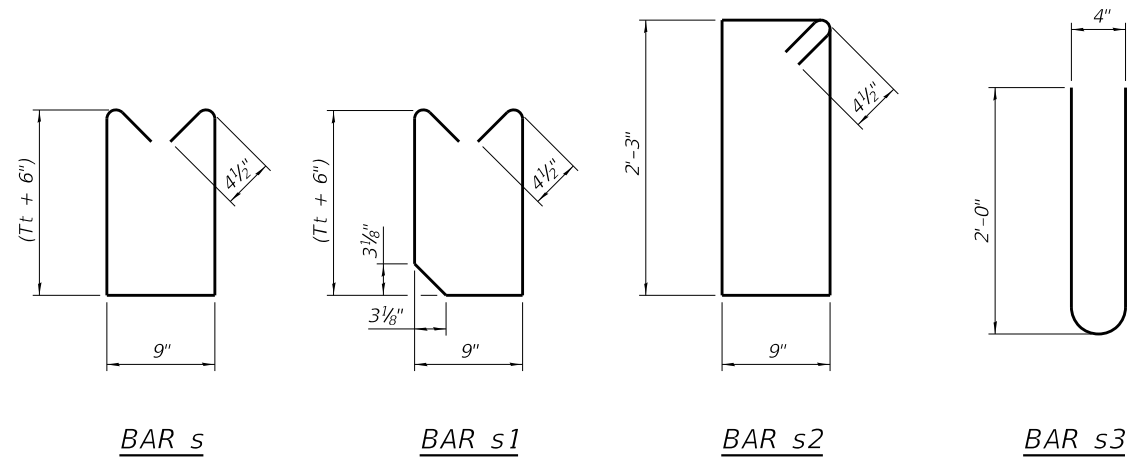
**SECTION F-F**  
(Showing culvert tie details)



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**



MODEL: Default  
FILE NAME: 140-D468636-sht-box2\_03.dgn

**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - MJM	REVISED -
PLOT SCALE = 0.1667/1 in.	CHECKED - CDL	REVISED -
PLOT DATE = \$DATE	DRAWN - MJM	REVISED -
	CHECKED - CDL	REVISED -

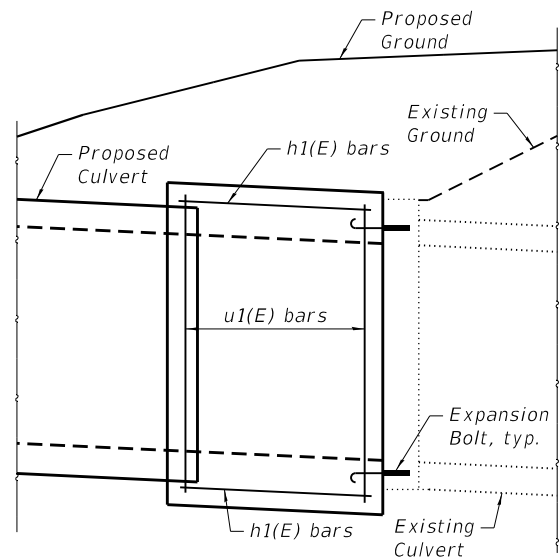
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END  
SECTION DETAILS - PRECAST CULVERT EXTENSION 2

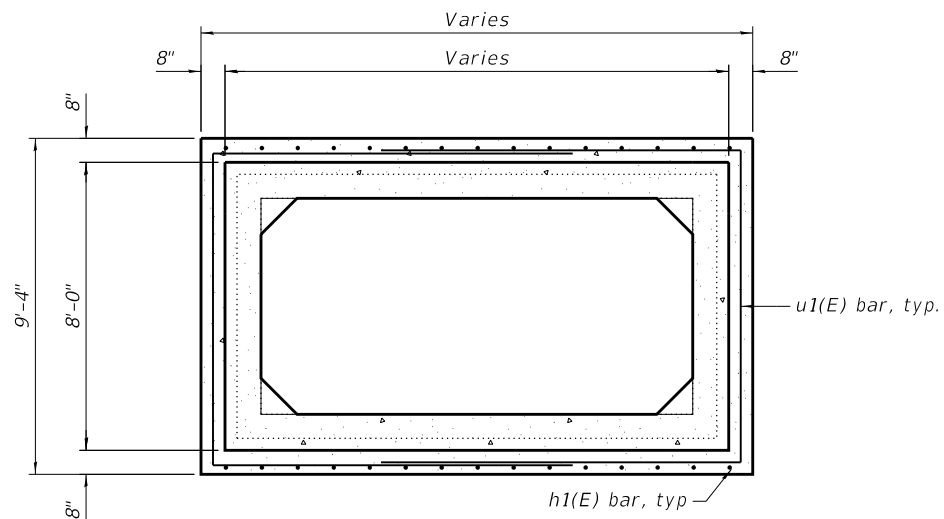
SHEET 3 OF 3 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	150
CONTRACT NO. 68636				

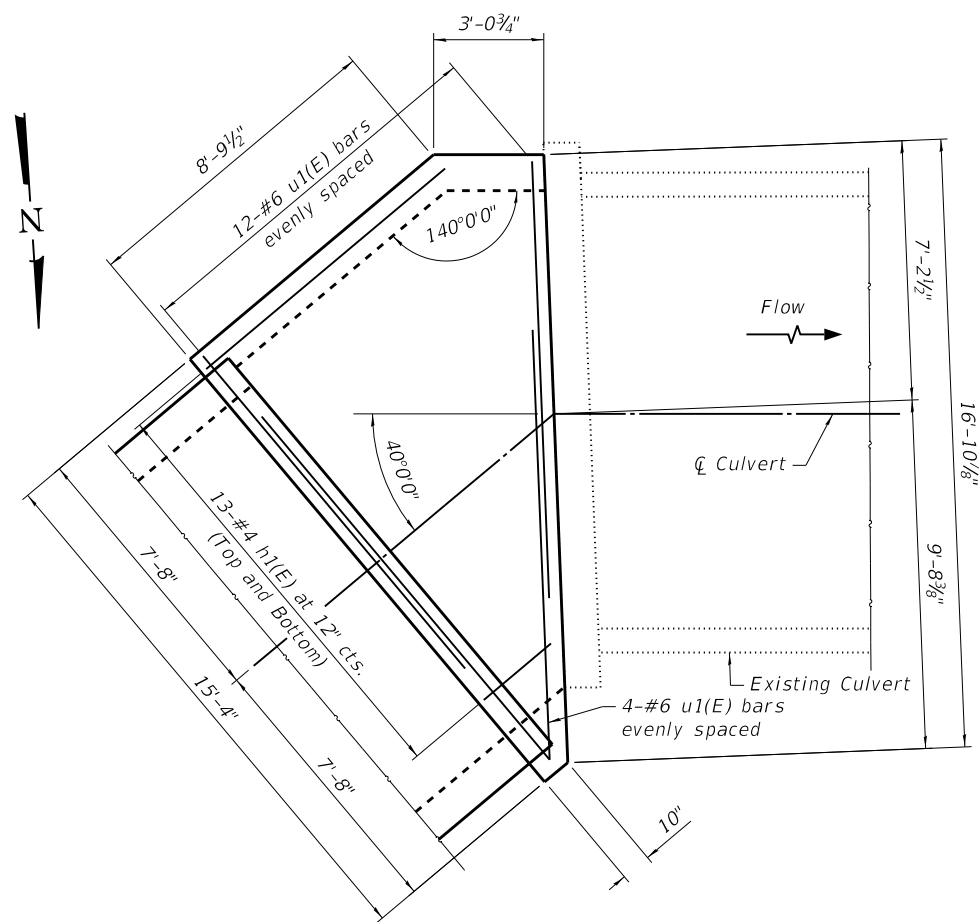
ILLINOIS FED. AID PROJECT



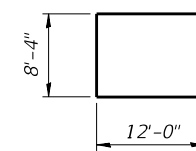
**ELEVATION**



**SECTION THRU COLLAR**



**PLAN**



**BAR u(E)**

**COLLAR  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h1(E)	26	#4	10'-0"	—
u1(E)	16	#6	32'-6"	U
Concrete Collar			Cu. Yd.	10.0
Reinforcement Bars, Epoxy Coated			Pound	960

Verify all bar dimensions in field.  
Cut bars to fit for variable dimensions.

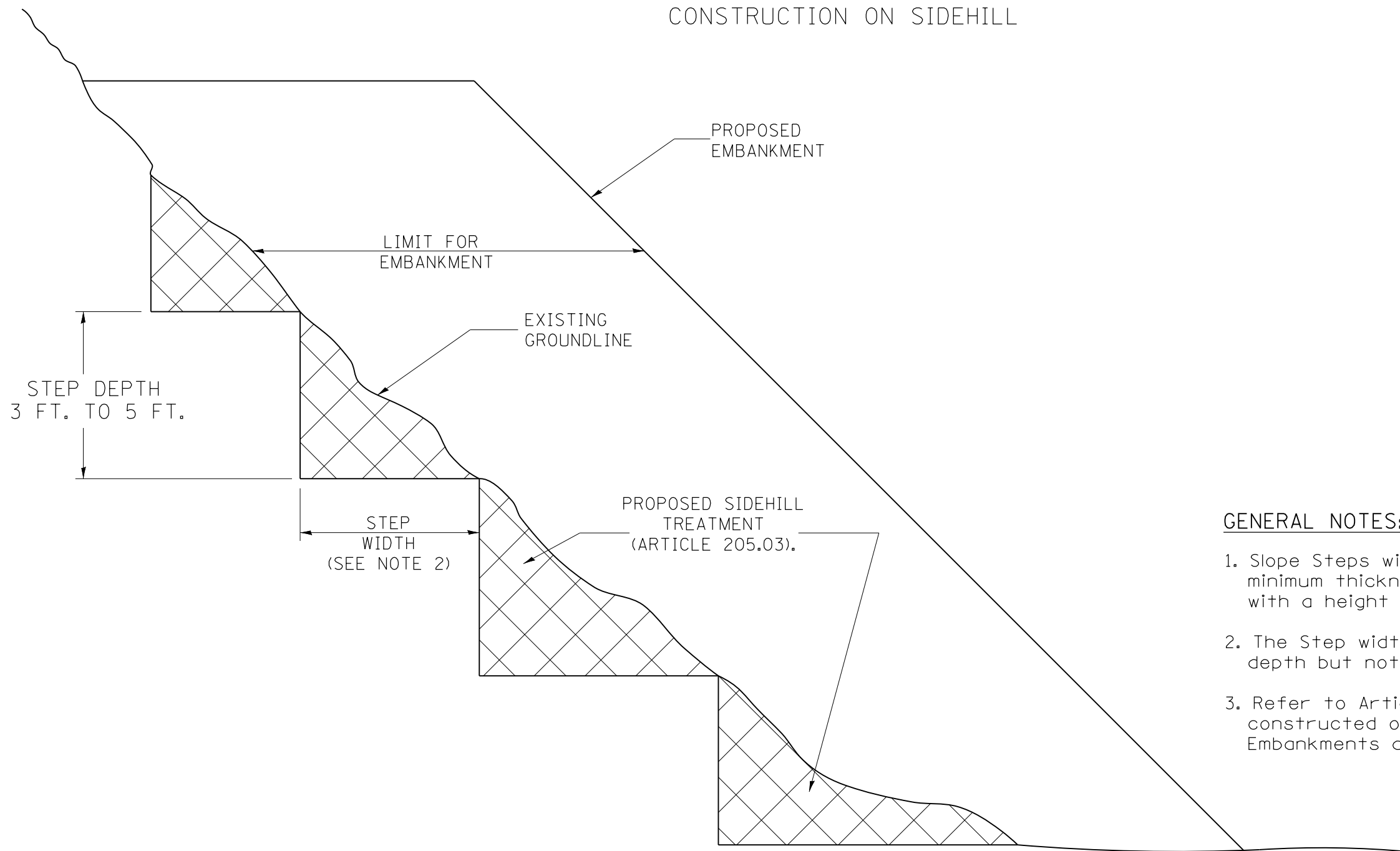
MODEL: Default  
FILE NAME: 150A-D468636-shc-box2\_03A.dgn

USER NAME = cchastah	DESIGNED - MJM	REVISED -
PLOT SCALE = 0.1667"/in.	CHECKED - CDL	REVISED -
PLOT DATE = \$DATE	DRAWN - MJM	REVISED -
	CHECKED - CDL	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	150A
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

# SLOPE STEPS DETAIL

## TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL

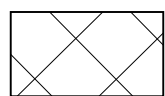


**DESIGNER NOTE:**  
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.  
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

**GENERAL NOTES:**

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

**REPLACEMENT MATERIAL:**



STANDARD EMBANKMENT  
(IN ACCORDANCE WITH  
205 OF THE STANDARD SPECIFICATION).

All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.
	BOX, REVISED GENERAL NOTES.	
10-16-06	REVISED TO 2007 SPEC.	M.A.
5-30-18	MINOR CORRECTION	R.D.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SLOPE STEPS DETAIL**

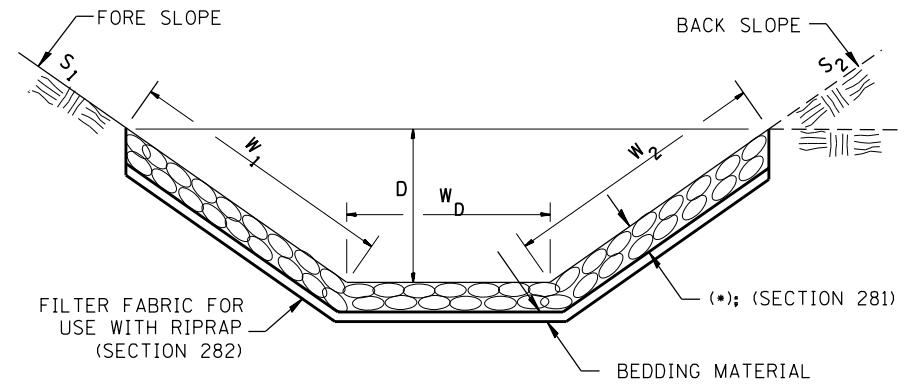
NOT TO SCALE

CADD STD. 205001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	151
CONTRACT NO. 68636				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Designer NOTES:  
 1. Designer to modify this Special Detail Sheet, as needed for inclusion in plans.  
 2. (\*) Designer to specify pay item including material, quality, and gradation.  
 3. Include District Special Provision if needed.

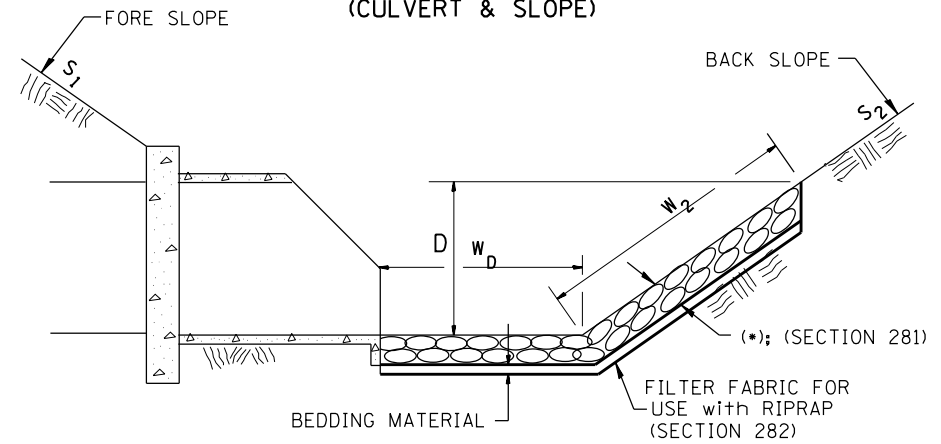
**CASE 1  
(DITCH)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_1 + W_2 + W_D$

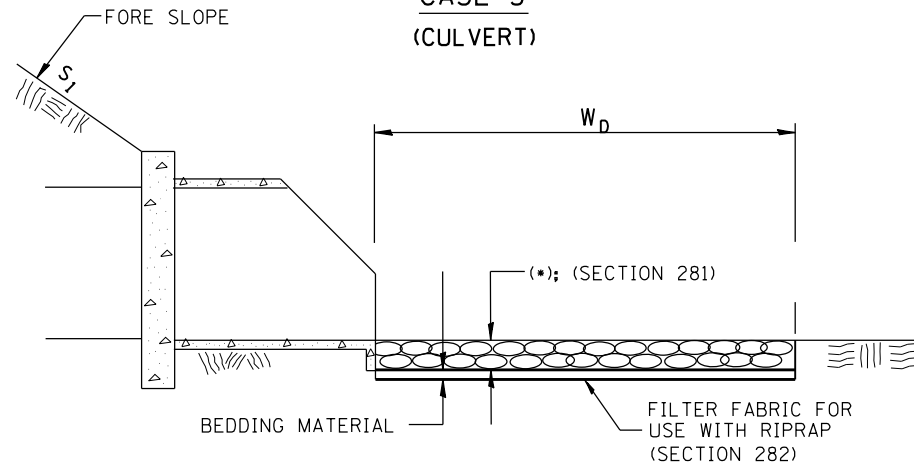
**CASE 2  
(CULVERT & SLOPE)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_2 + W_D$

**CASE 3  
(CULVERT)**



(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m <sup>2</sup> )
TOTAL				

(1) WIDTH =  $W_D$

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise noted.

1-1-97	RENUM. A-12.02, NEW REVISION BOX	T.P.
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.
10-16-06	REVISED TO 2007 SPEC.	M.A.
9-6-12	REMOVED A DESIGNER NOTE AND MADE MINOR CHANGES	R.D.

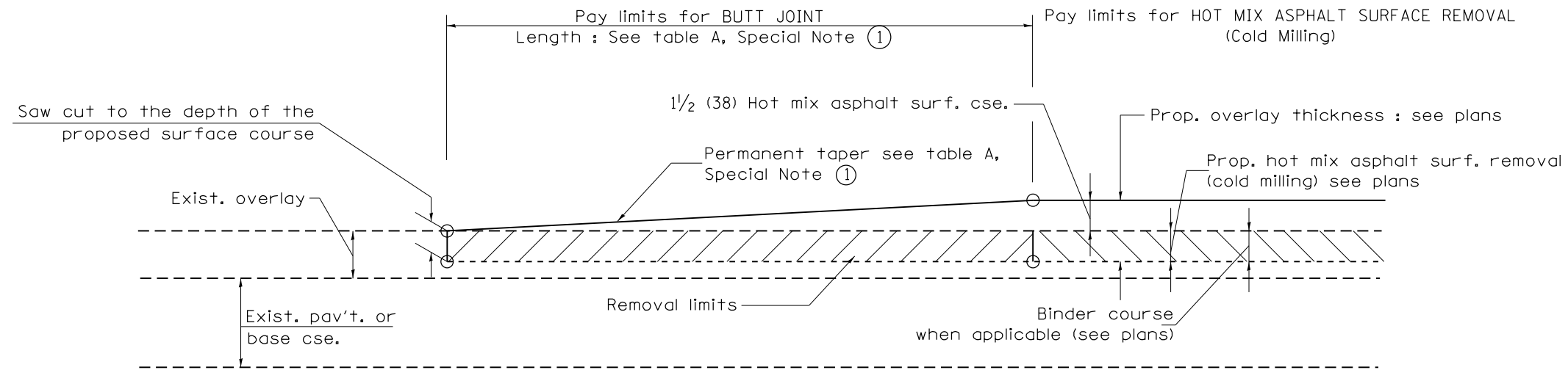
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RIPRAP DITCH FOR EROSION PROTECTION

NOT TO SCALE

CADD STD. 281001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	152
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



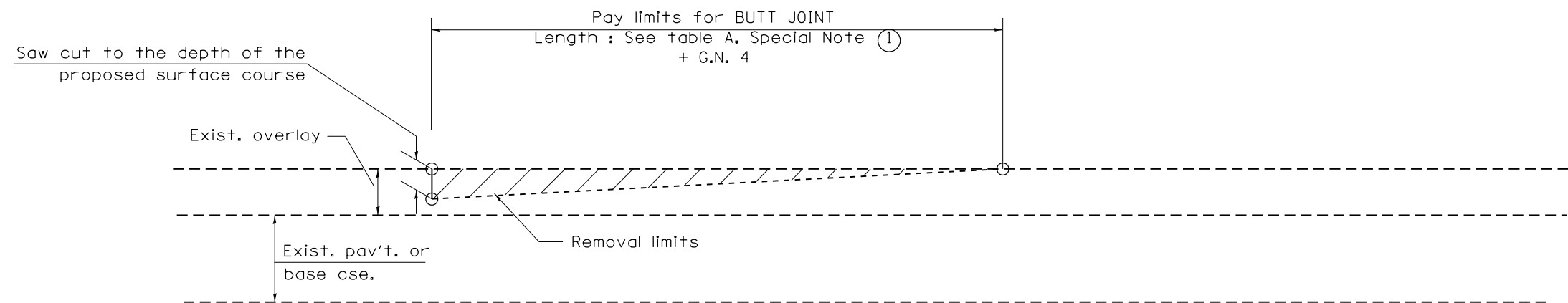
**CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

**TABLE A  
TAPER RATES**

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
①	BUTT JOINT TAPER RATE	1:480	1:240
②	TEMPORARY RAMP TAPER RATE	1:80	1:40

**GENERAL NOTES**

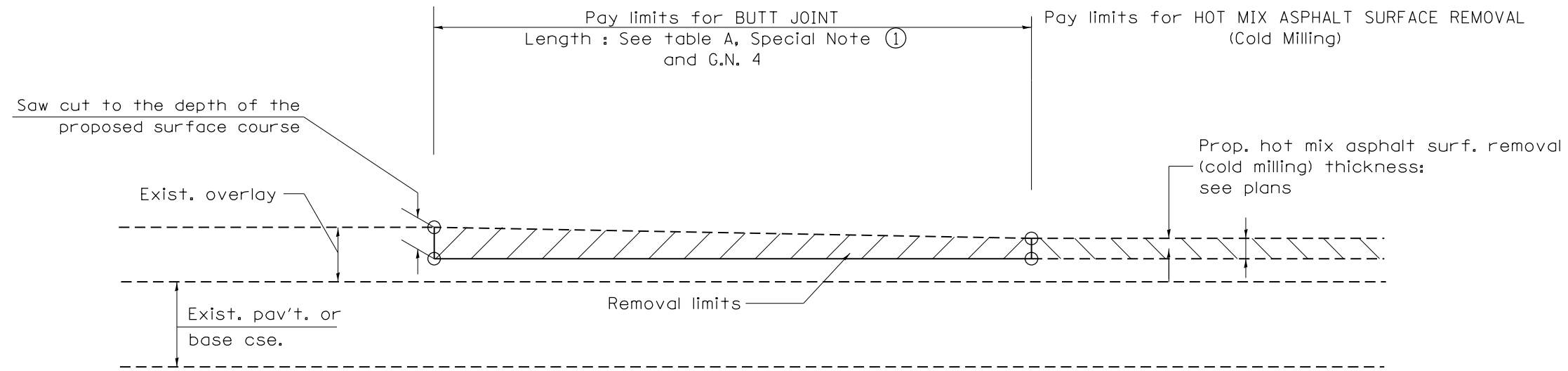
1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold milling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



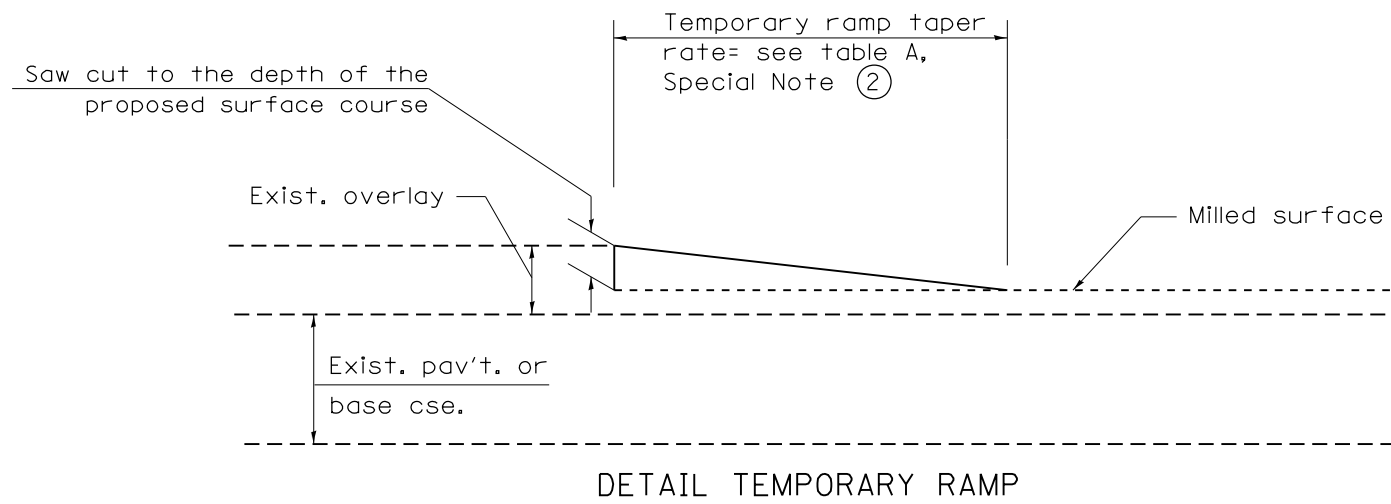
**CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)**

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BUTT JOINTS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.			310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	153
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.			CONTRACT NO. 68636				
10-16-06	REVISED TO 2007 SPEC.	M.A.	07-16-19	Wording and Spelling corrections	R.D.			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



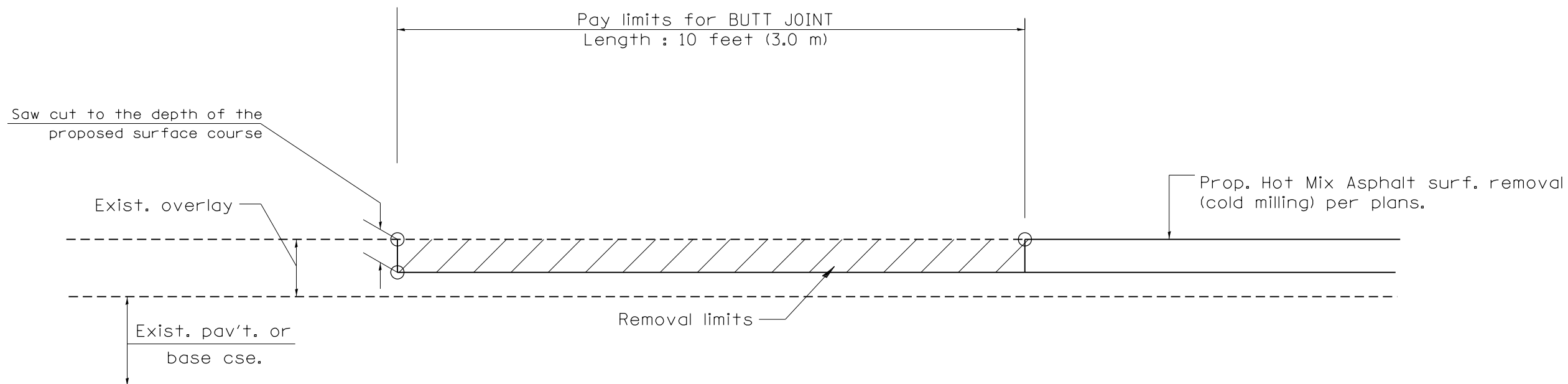
CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER



All dimensions are in inches (millimeters) unless otherwise noted.

				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINTS</b>		SHT. 2 OF 3 CADD STD. 406101-D4	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	154	CONTRACT NO. 68636				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							

NOT TO SCALE

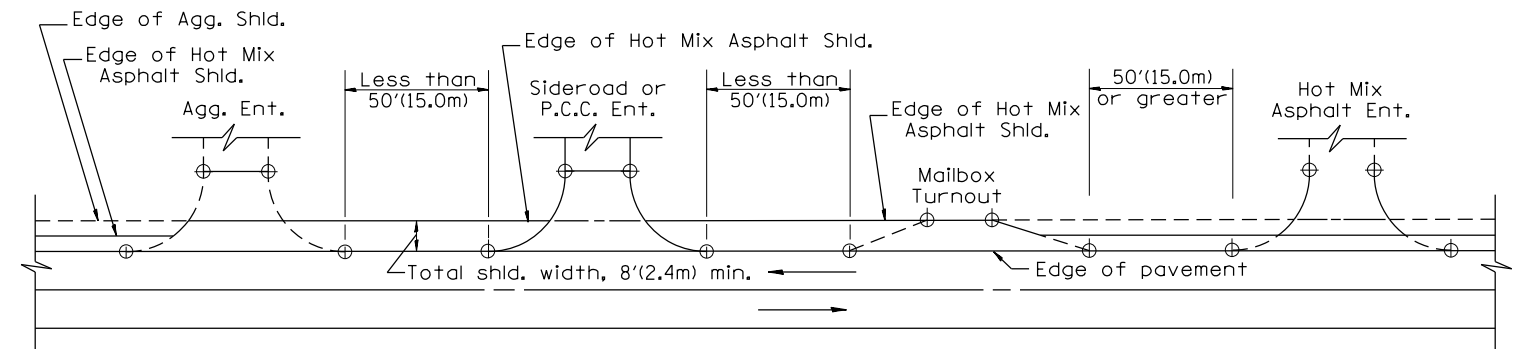
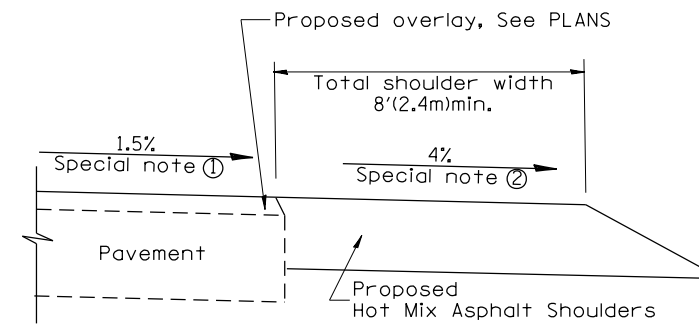
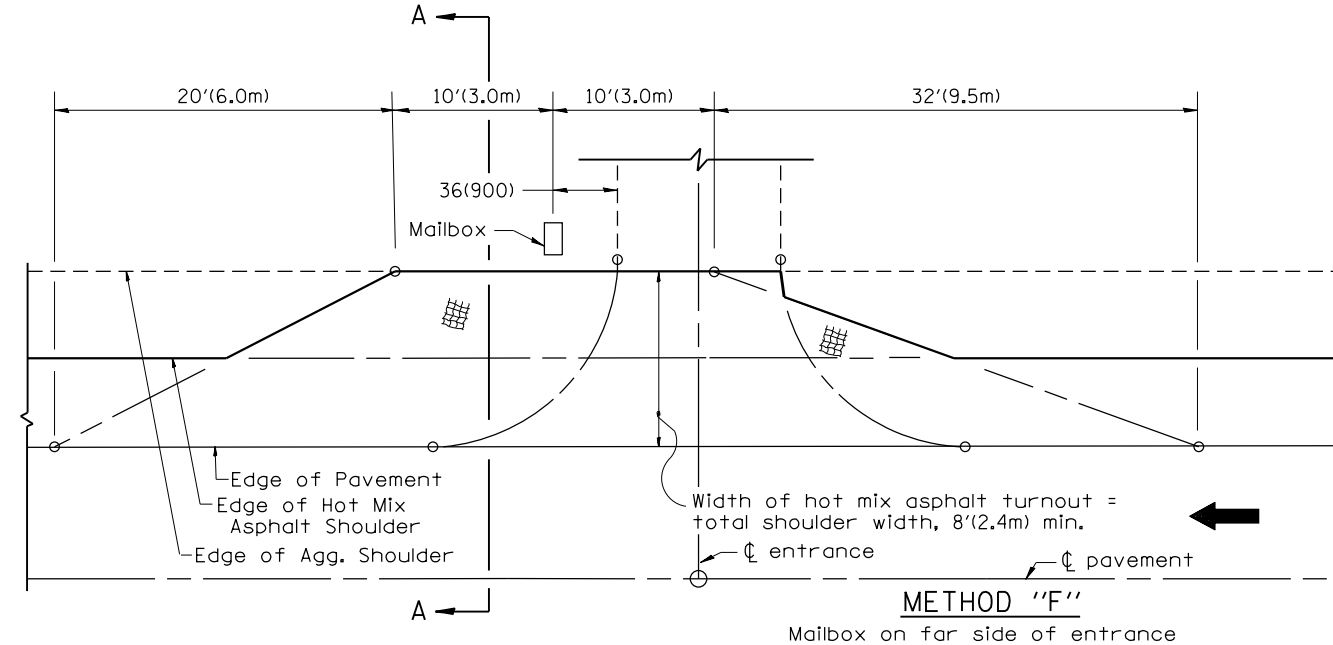
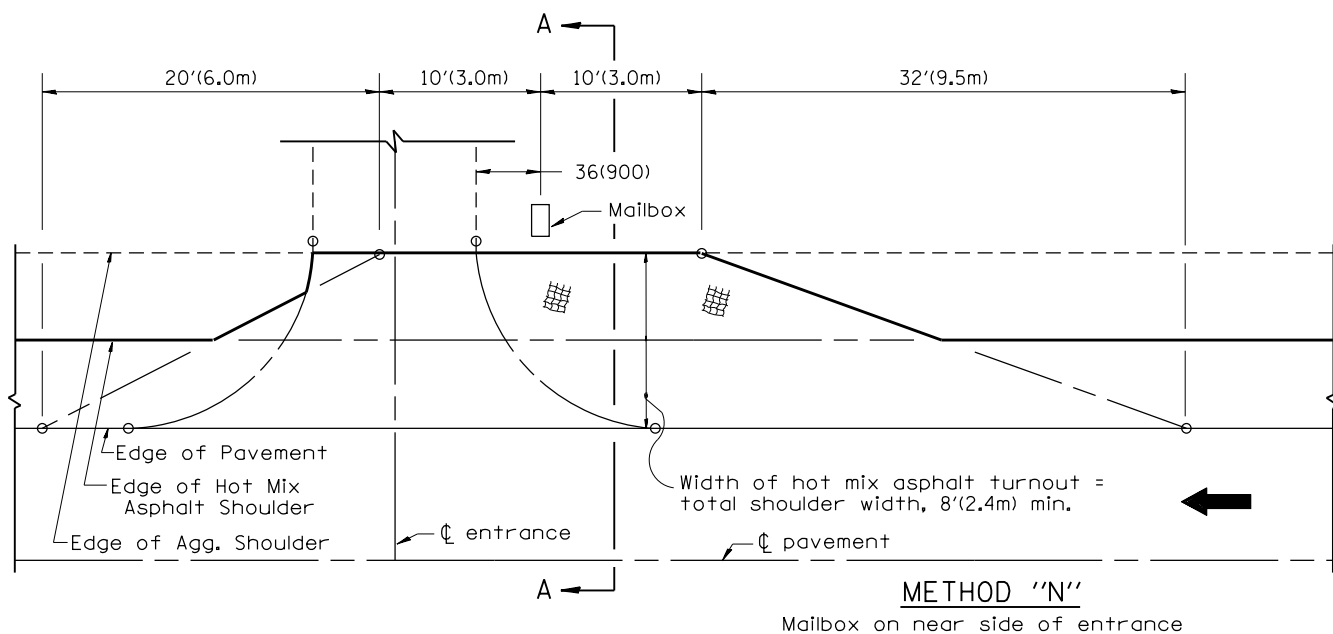
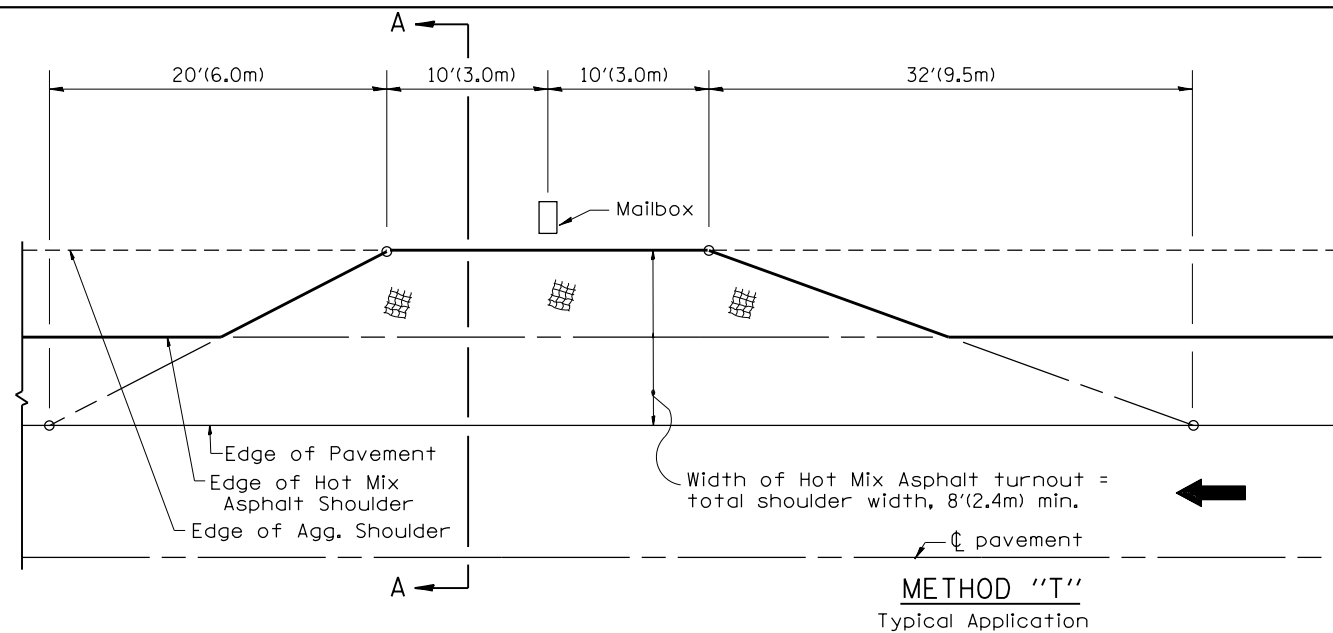


CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH  
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)  
TIE-IN TO EXISTING BITUMINOUS TAPER

All dimensions are in inches (millimeters) unless otherwise noted.

				<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>		<b>BUTT JOINTS</b>		SHT. 3 OF 3 CADD STD. 406101-D4		<table border="1"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>310</td> <td>101W-1,RS-2; 28W-1,RS-5</td> <td>WARREN/MERCER</td> <td>234</td> <td>155</td> </tr> <tr> <td colspan="3"></td> <td colspan="2" style="text-align: center;">CONTRACT NO. 68636</td> </tr> <tr> <td colspan="2">FED. ROAD DIST. NO.</td> <td colspan="3">ILLINOIS FED. AID PROJECT</td> </tr> </table>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	155				CONTRACT NO. 68636		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																											
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	155																											
			CONTRACT NO. 68636																												
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT																													
				NOT TO SCALE																											

DESIGNER NOTES:  
 1. THIS DRAWING REPLACES STATE STANDARD 406201  
 2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL



SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS

**GENERAL NOTES**

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 6(150) to 12(300) and the post a minimum of 24(600) from the edge of the turnout surfacing.

**SPECIAL NOTES**

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6'(1.8m) and wider and 12% for shoulders 4'(1.2m) and less. Where 12(300) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.	
07-01-97	REVISE DESIGNER NOTES	J.A.	
09-15-05	REVISED DESIGNER NOTE	M.M.A.	
10-16-06	REVISED TO 2007 SPEC.	M.A.	

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUTS FOR "3R" PROJECTS

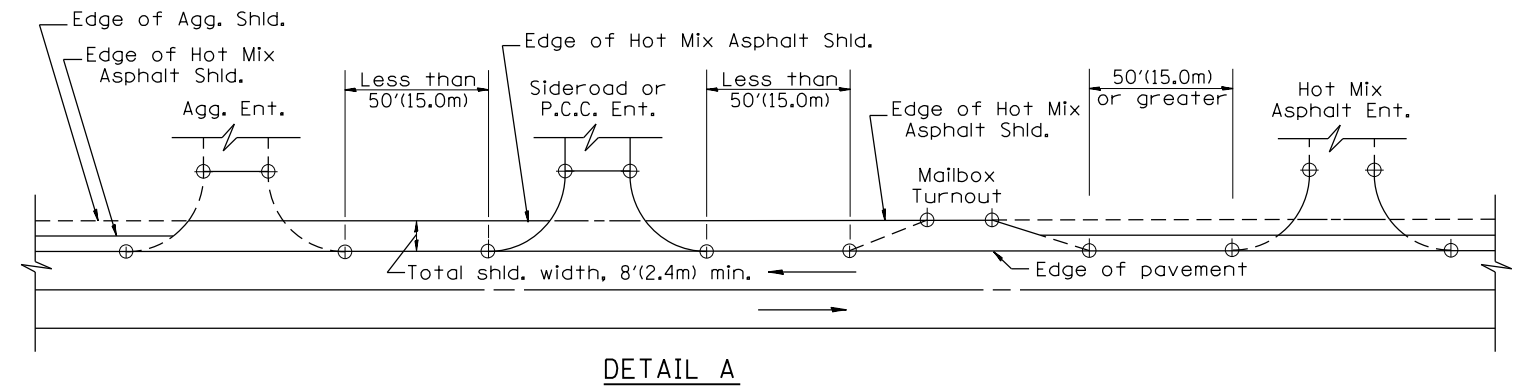
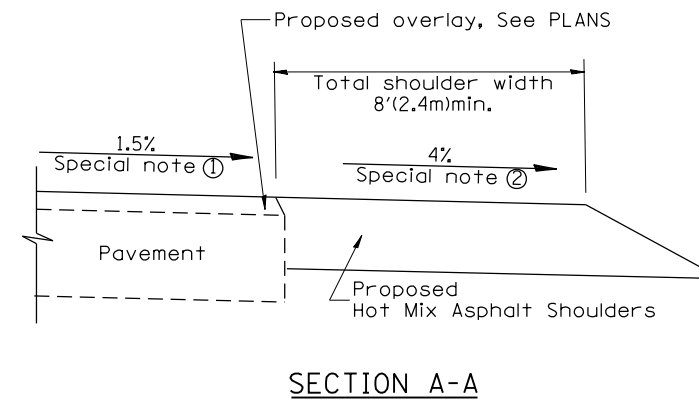
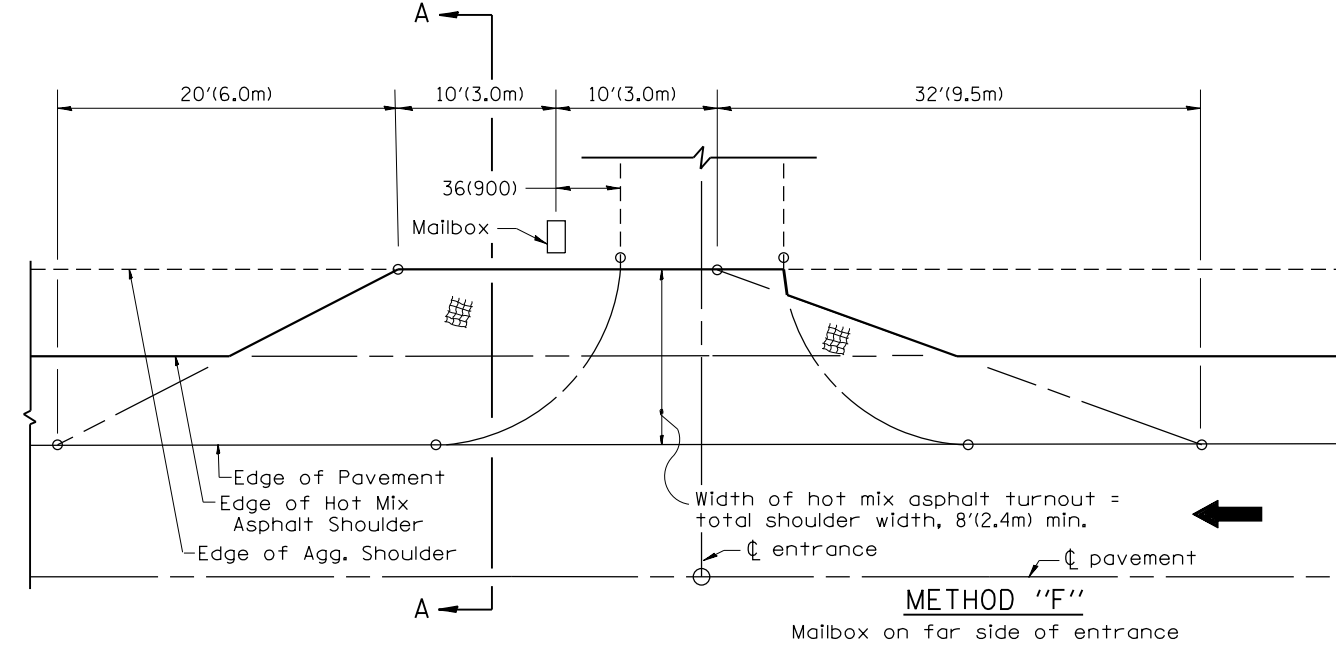
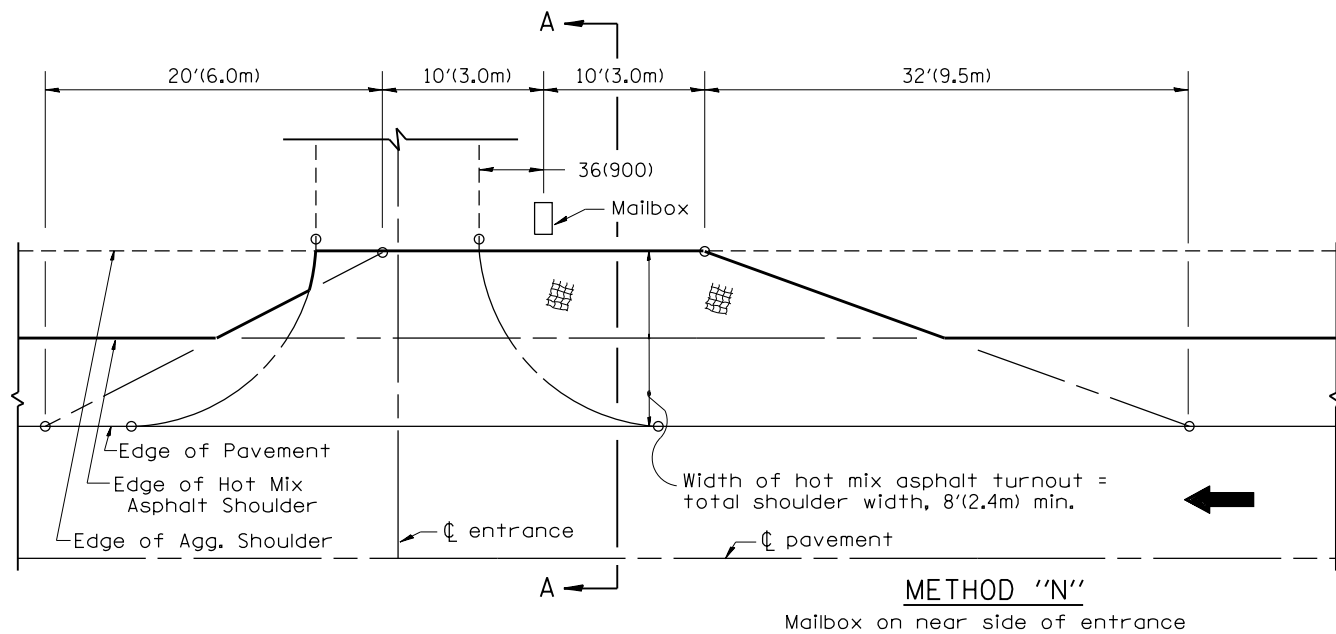
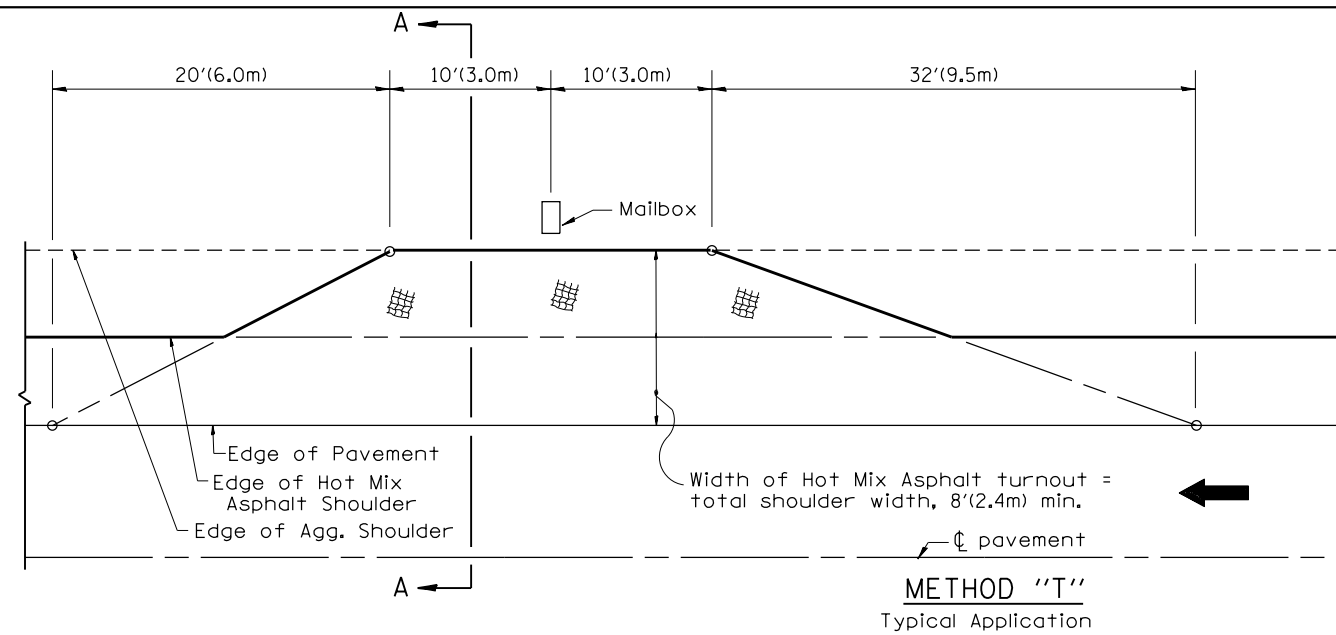
NOT TO SCALE

CADD STD. 406201-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	156
				CONTRACT NO. 68636
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DESIGNER NOTES:  
 1. THIS DRAWING REPLACES STATE STANDARD 406201  
 2. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL



SHOULDER TREATMENT FOR CLOSELY SPACED SIDEROADS, ENTRANCES, AND/OR MAILBOX TURNOUTS

**GENERAL NOTES**

- Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
- The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
- Mailboxes shall be mounted such that the face of the mailbox is 6(150) to 12(300) and the post a minimum of 24(600) from the edge of the turnout surfacing.

**SPECIAL NOTES**

- The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6'(1.8m) and wider and 12% for shoulders 4'(1.2m) and less. Where 12(300) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.	
07-01-97	REVISE DESIGNER NOTES	J.A.	
09-15-05	REVISED DESIGNER NOTE	M.M.A.	
10-16-06	REVISED TO 2007 SPEC.	M.A.	

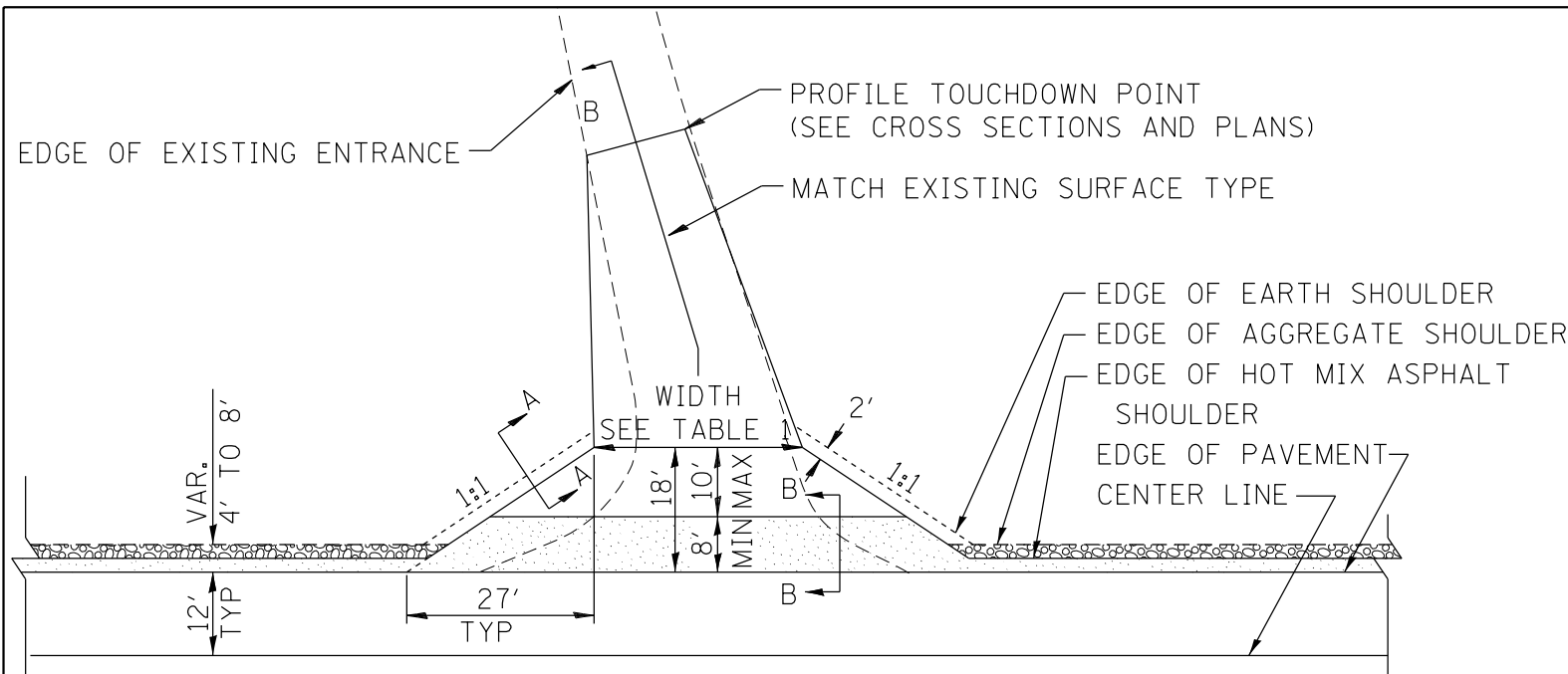
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

MAILBOX TURNOUTS FOR "3R" PROJECTS

NOT TO SCALE

CADD STD. 406201-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	157
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



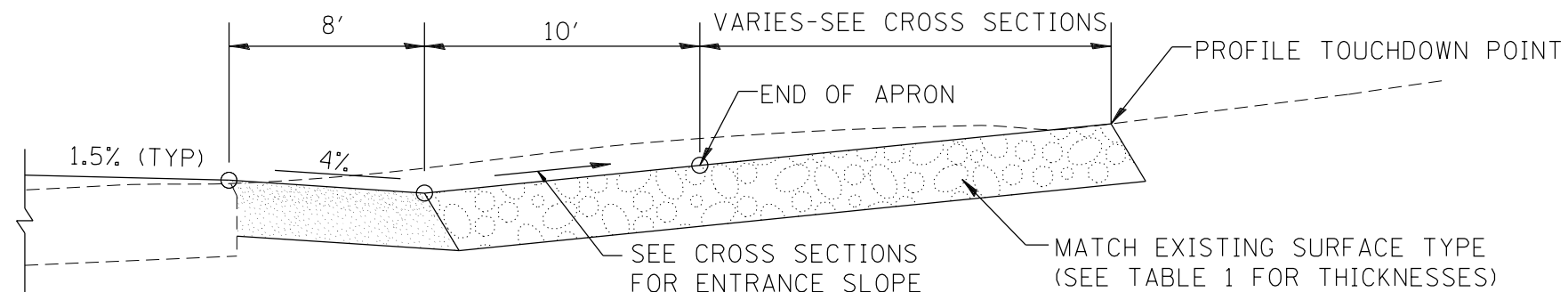
HOT MIX ASPHALT SHOULDER, 8"  
 AGGREGATE SHOULDER, TYPE B, 6"

**PLAN**

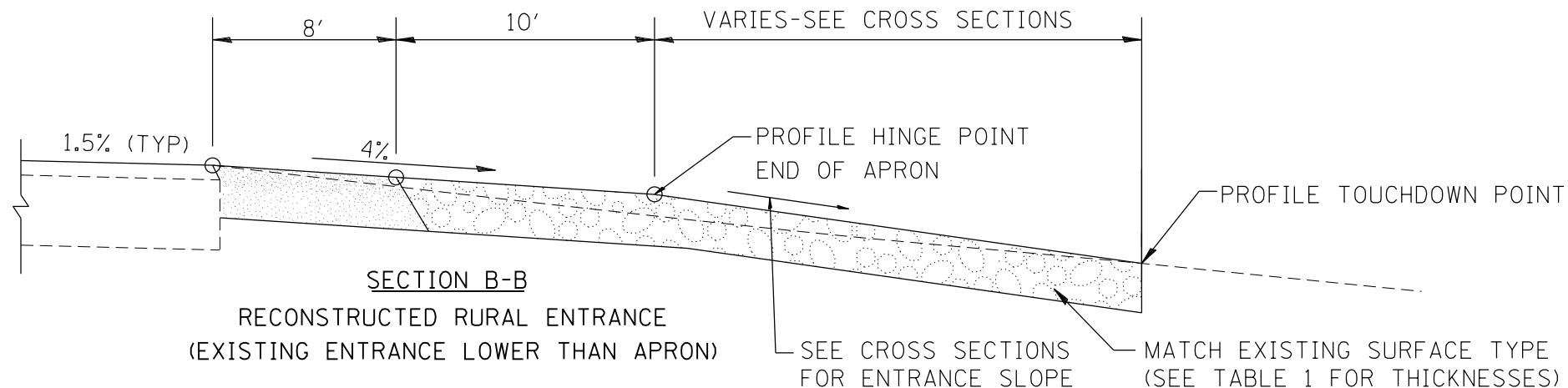
COMMERCIAL / FARM-RELATED ENTRANCE

TABLE 1					
RURAL ENTRANCE DESIGN					
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT	COMMERCIAL	
	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	14'(4.3m) Min., 24'(7.2m) Max., 24'(7.2m) Min., 35'(10.7m) Max.
FLARE	1:1.5				
MAX. GRADE (G)	12%		12%		10%

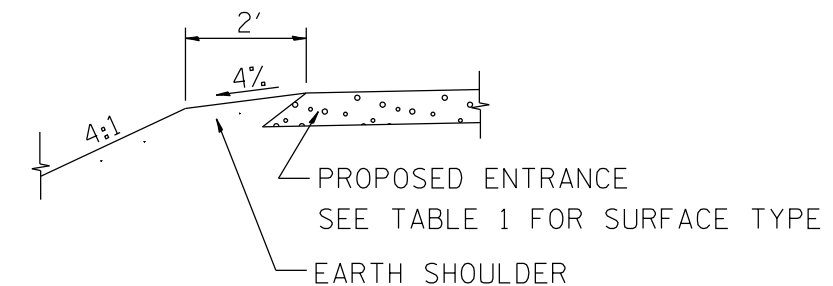
SURFACE TYPE			
INCIDENTAL HOT MIX ASPHALT SURFACING	6"	—	8"
AGGREGATE SURFACE COURSE	6"	8"	—
PCC DRIVEWAY PAVEMENT	6"	—	7"



SECTION B-B  
RECONSTRUCTED RURAL ENTRANCE  
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B  
RECONSTRUCTED RURAL ENTRANCE  
(EXISTING ENTRANCE LOWER THAN APRON)

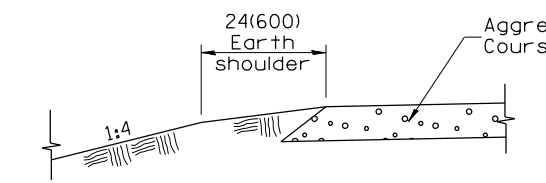


SECTION A-A  
SHOULDER TREATMENT FOR RURAL ENTRANCES

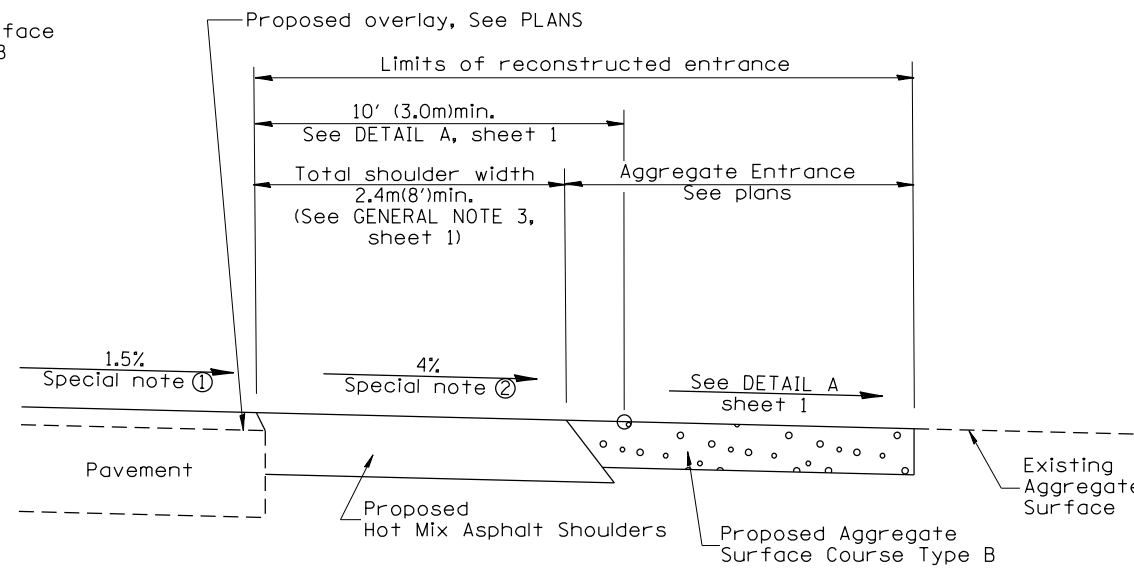
GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

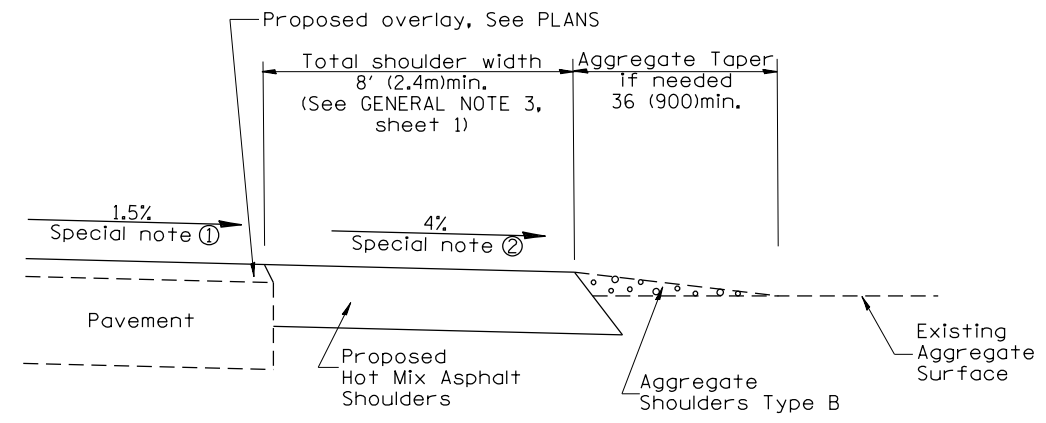
All dimensions are in inches (millimeters) unless otherwise noted.



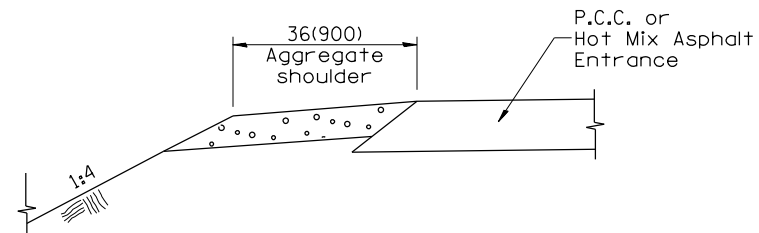
**SECTION A-A**  
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



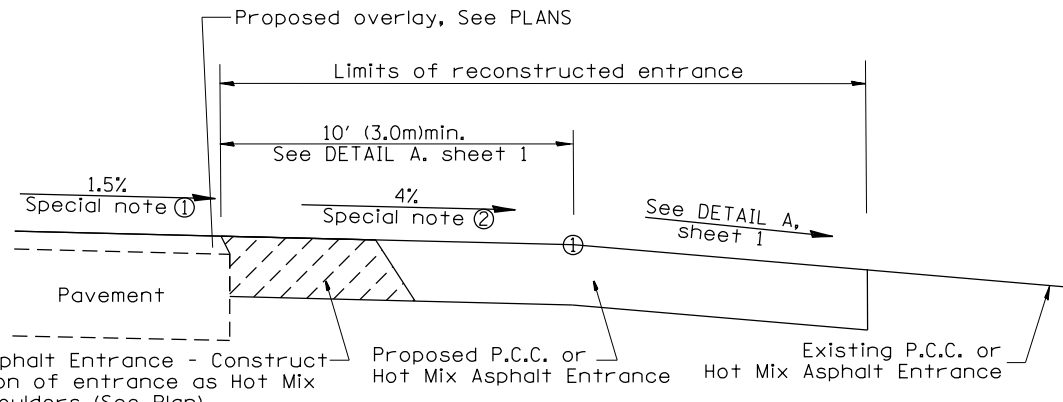
**SECTION B-B**  
RECONSTRUCTED AGGREGATE ENTRANCE



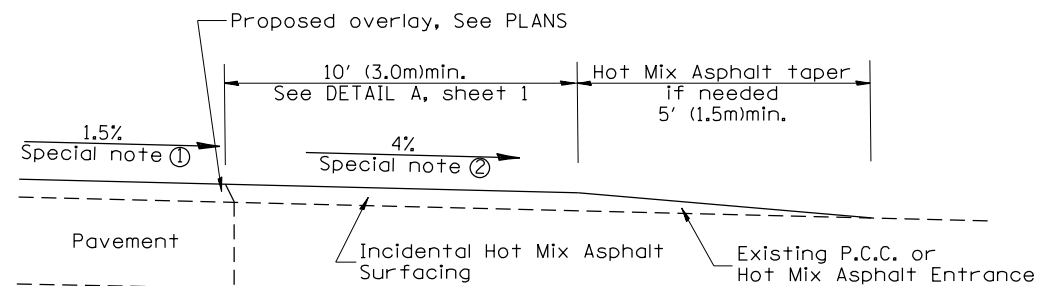
**SECTION B-B**  
EXISTING AGGREGATE ENTRANCE



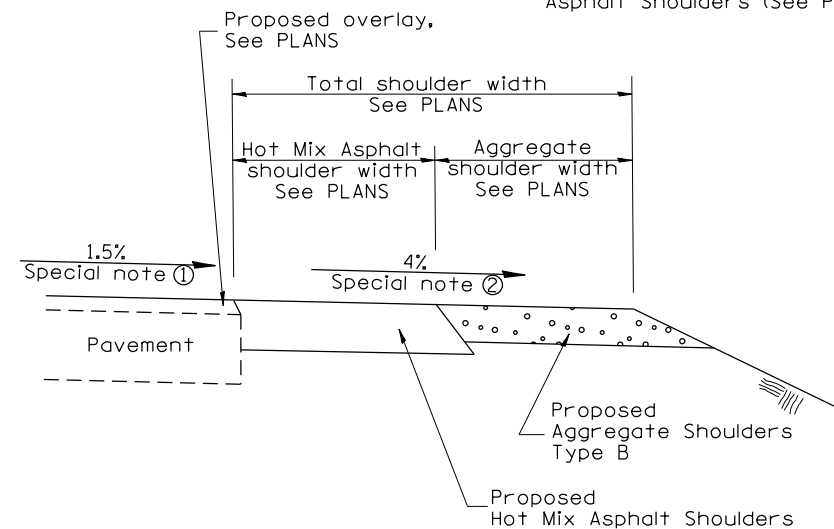
**SECTION C-C**  
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



**SECTION D-D**  
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION D-D**  
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



**SECTION E-E**  
MAINLINE SHOULDER TREATMENT

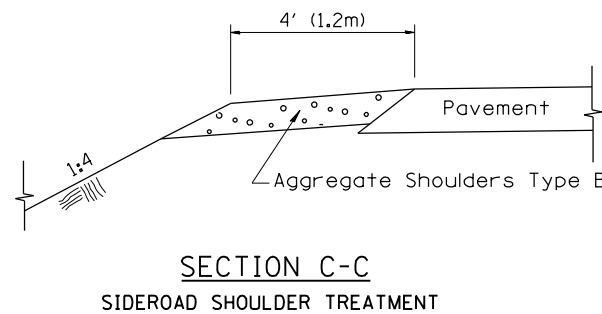
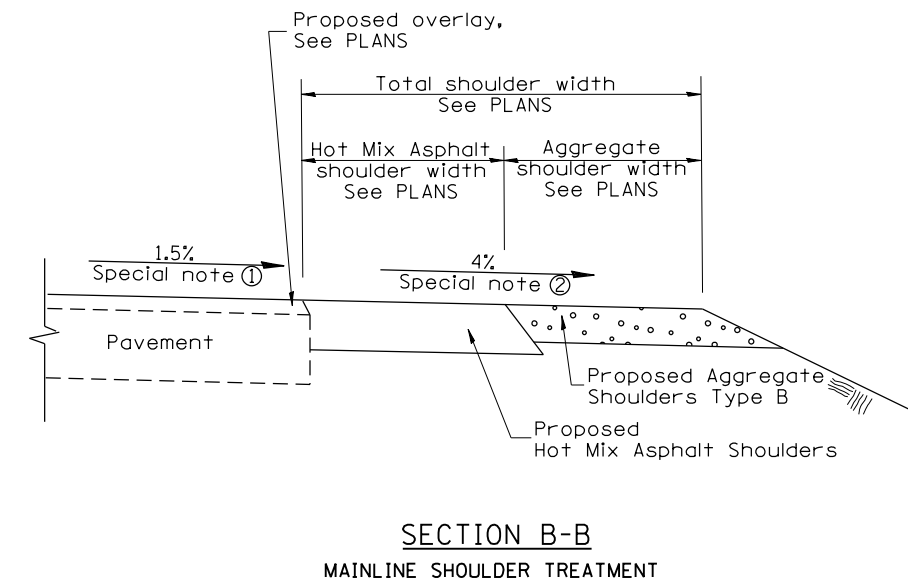
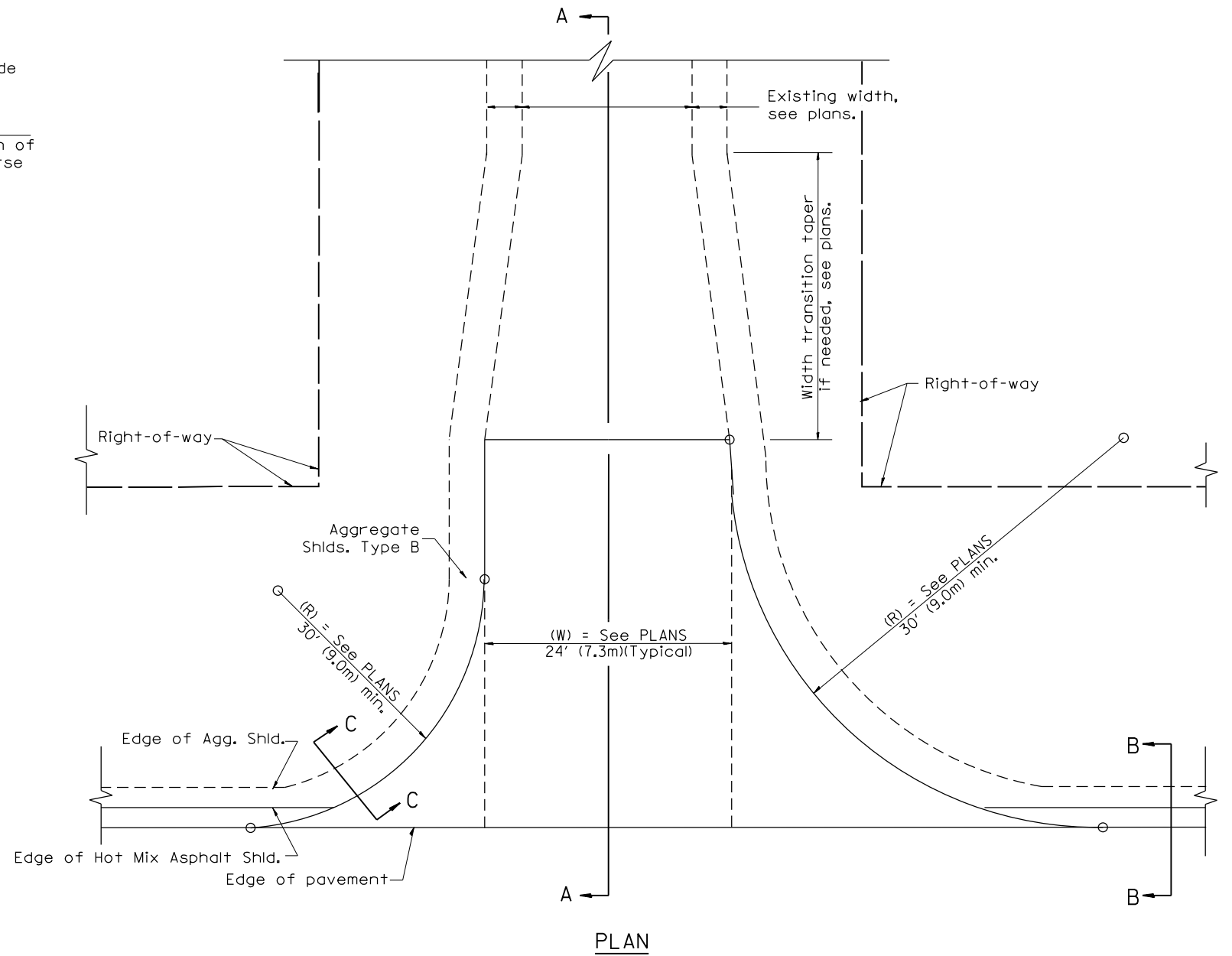
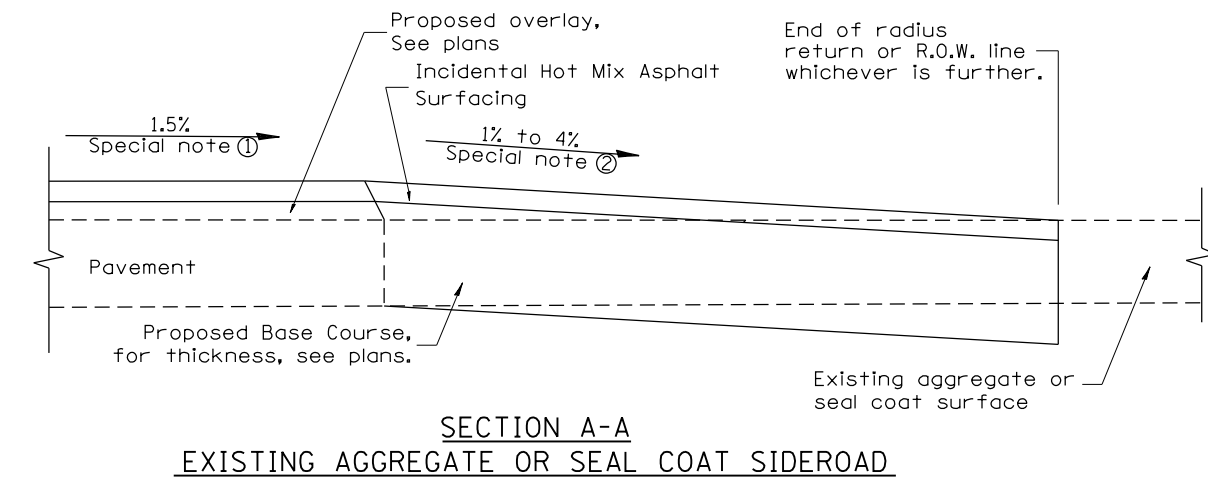
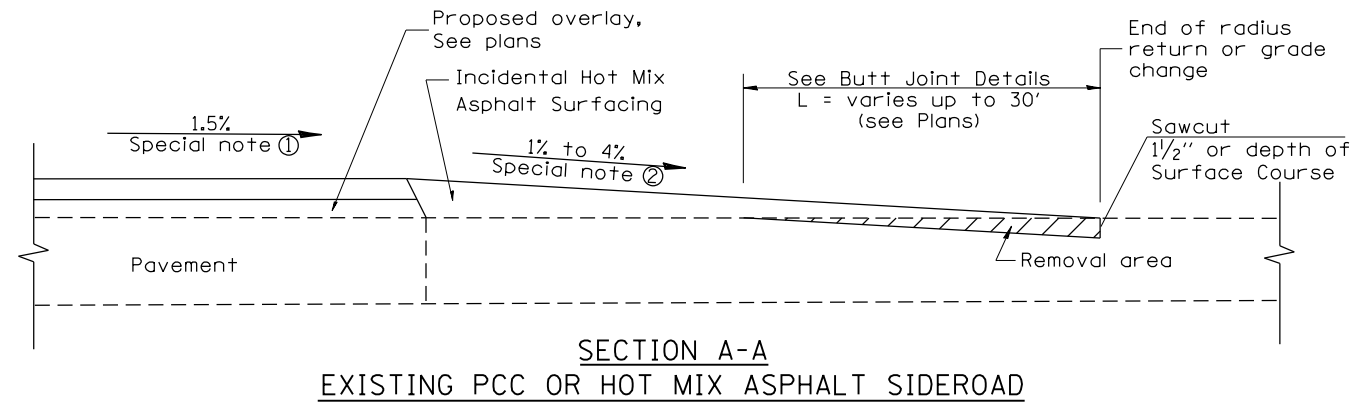
**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on super-elevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through super-elevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RURAL ENTRANCES FOR "3R" PROJECTS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	159
NOT TO SCALE				SHT. 2 OF 2 CADD STD. 406301-D4				CONTRACT NO. 68636				
								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:  
 1. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.  
 2. THIS CADD STANDARD IS FOR 3R PROJECTS AND NOT REALLY INTENDED FOR SMART OR 3P.



**SPECIAL NOTES**

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.
- ② The sideroad profile should drain away from the mainline at 1% to 4% for 50' (15.0m) to 100' (30.0m), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.	02-14-17	MINOR REVISIONS	R.D.
07-01-97	REVISE DESIGNER NOTES	J.A.			
09-15-05	REVISED DESIGNER NOTE	M.M.A.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

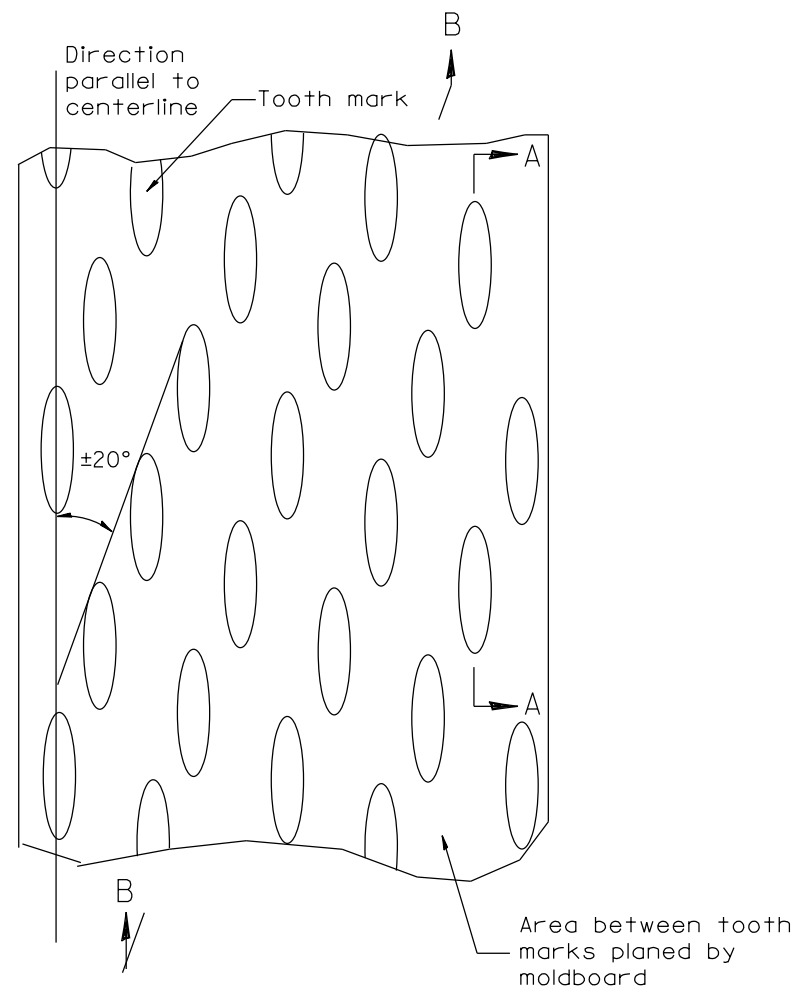
**RURAL SIDEROADS FOR "3R" PROJECTS**

NOT TO SCALE

CADD STD. 406401-D4

All dimensions are in inches (millimeters) unless otherwise noted.

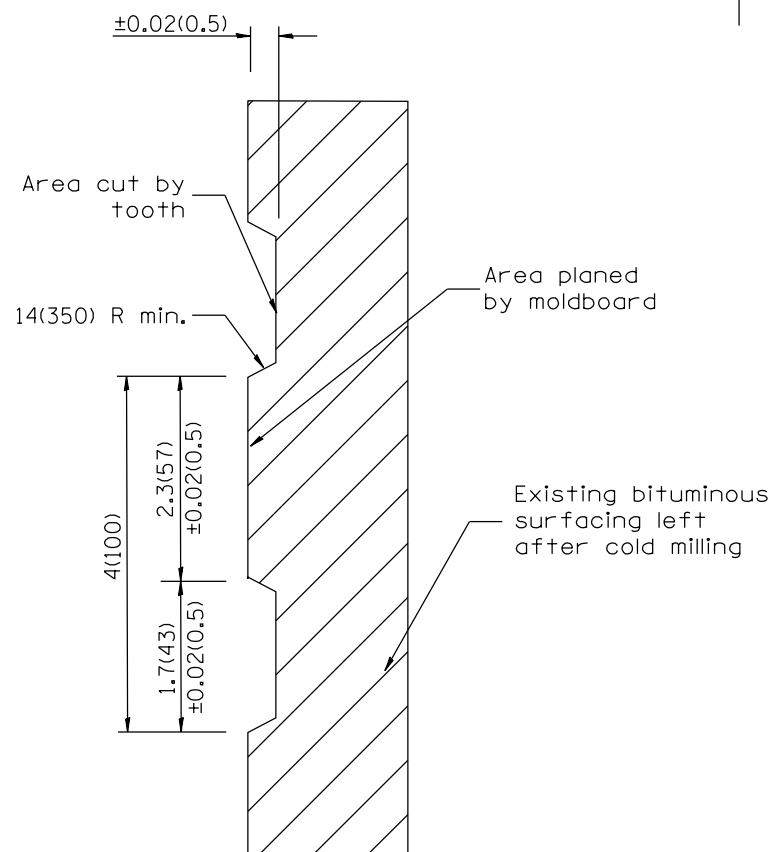
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	160
CONTRACT NO. 68636				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



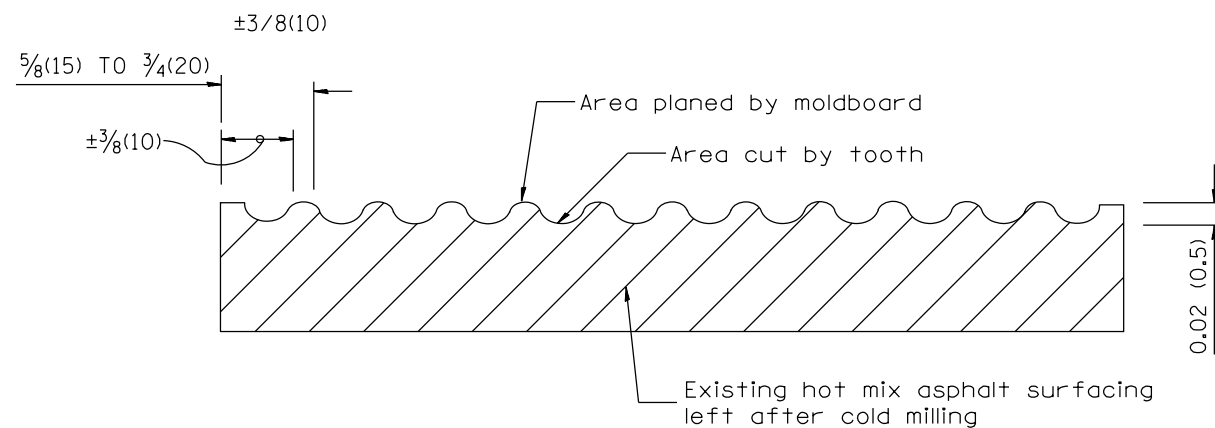
PLAN

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.



SECTION A-A



SECTION B-B PROJECTED PERPENDICULAR TO CENTERLINE

DESIGNER NOTES:  
1. INCLUDE DISTRICT SPECIAL PROVISION, IF APPLICABLE.

All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.
10-16-06	REVISED TO 2007 SPEC.	M.A.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

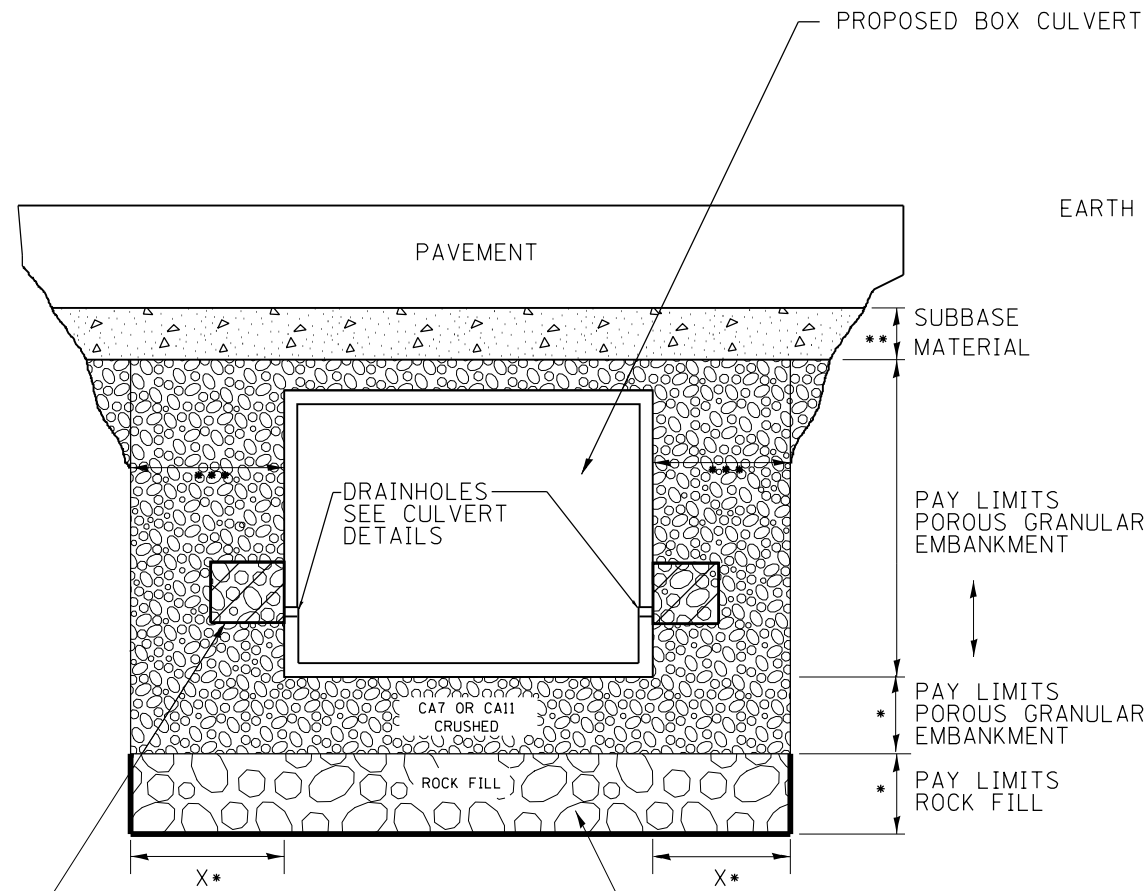
NOT TO SCALE

CADD STD. 440001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	161
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68636	

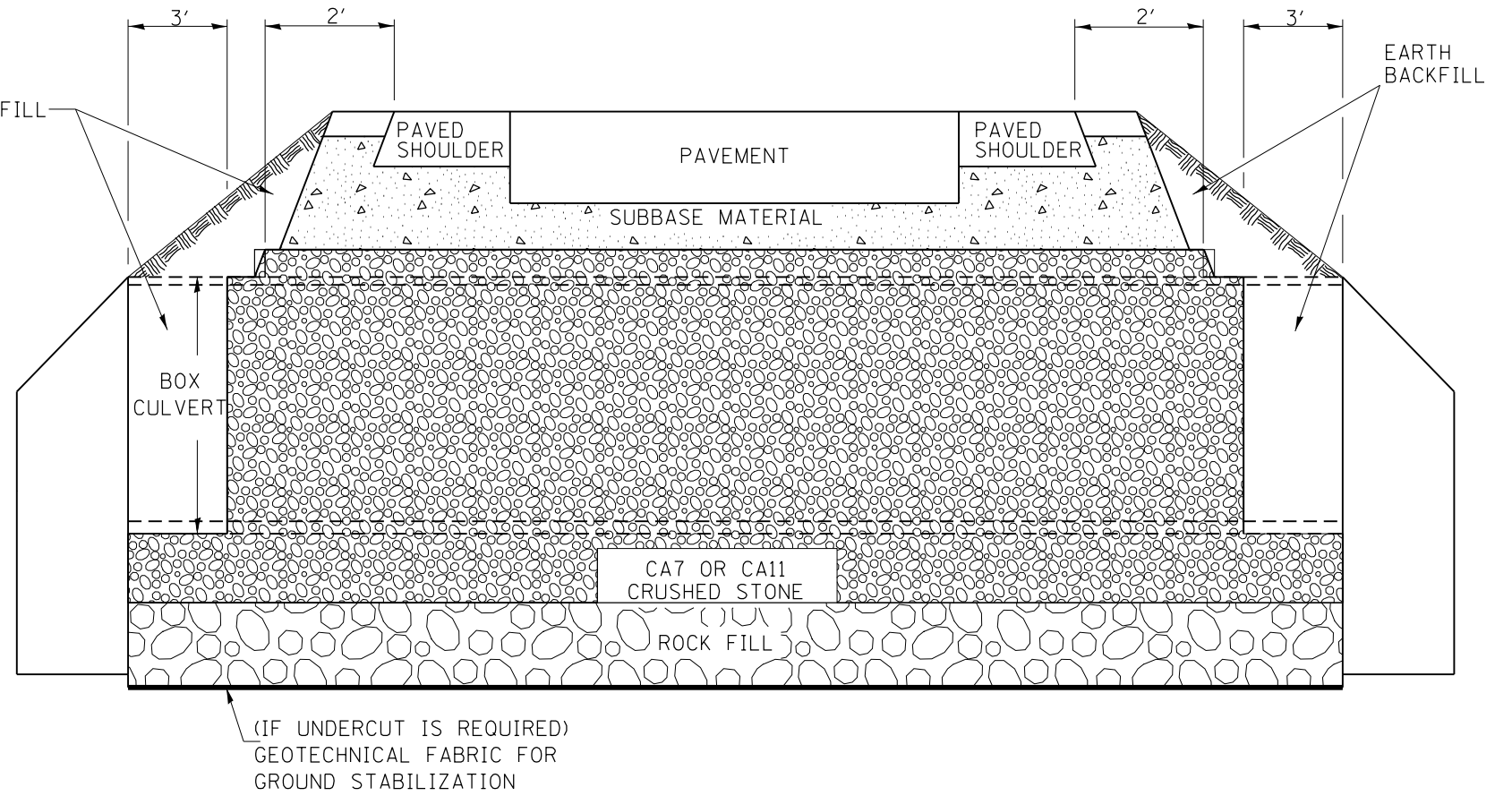
1. IF DESIGN FILL IS < 2 FEET, CONTINUE PGE UP TO THE SUBBASE.  
 2. IF DESIGN FILL IS ≥ 2 FEET AND ≤ 8 FEET OR DEPTH OF FILL ≤ SPAN OF LARGEST BOX IN CONFIGURATION, CONTINUE BACKFILLING WITH PGE.

## ROADWAY PROFILE VIEW



DRAINHOLES SEE CULVERT DETAILS  
 CA7 OR CA11 CRUSHED  
 ROCK FILL  
 X\*  
 X\*  
 (IF UNDERCUT IS REQUIRED) PROPOSED REMOVAL & DISPOSAL OF UNSUITABLE, AND REPLACE WITH ROCK FILL WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION. PAID FOR BY RESPECTIVE PAY ITEMS.

## ROADWAY CROSS SECTION VIEW



### NOTES:

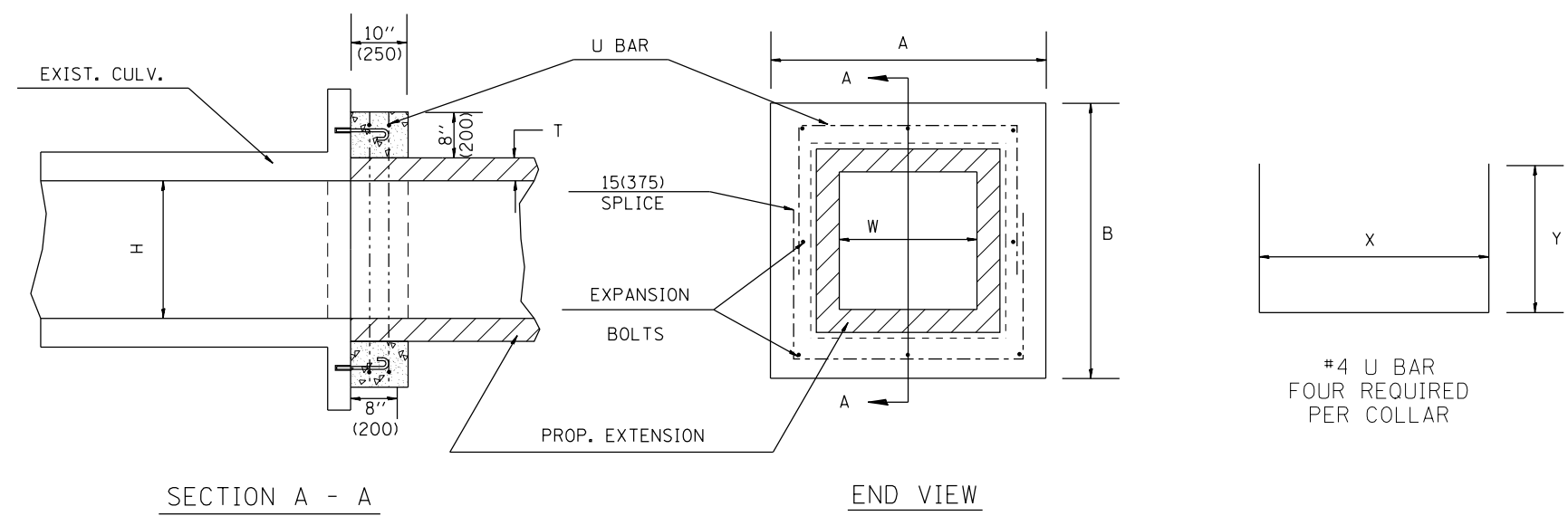
- EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
- POROUS GRANULAR EMBARKMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS.
- IF NO UNDERCUT IS REQUIRED, A 6" MINIMUM LAYER OF POROUS GRANULAR EMBARKMENT SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF BOX CULVERT.

- \* IF APPLICABLE, SEE UNDERCUT DETAIL FOR DEPTHS AND WIDTHS. IF THERE IS NO UNDERCUT, X = 2 FEET AND SEE NOTE 3 THIS SHEET.
- \*\* SUBBASE SHALL BE 6" MINIMUM LAYER OF CA6 CRUSHED STONE OR OTHER MATERIAL AS SPECIFIED IN THE PLANS.
- \*\*\* PAY LIMITS OF POROUS GRANULAR EMBARKMENT SHALL BE 2 FEET UNLESS OTHERWISE SHOWN IN THE PLANS.

All dimensions are in inches (millimeters) unless otherwise noted.

6-12-12	CREATED NEW STD.	R.D.																																
<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>										<b>DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS</b>					<table border="1" style="font-size: small; border-collapse: collapse;"> <thead> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> </thead> <tbody> <tr> <td>310</td> <td>101W-1,RS-2; 28W-1,RS-5</td> <td>WARREN/MERCER</td> <td>234</td> <td>162</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 68636</td> </tr> </tbody> </table>					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	162	CONTRACT NO. 68636				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																														
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	162																														
CONTRACT NO. 68636																																		
NOT TO SCALE										CADD STD. 540000-D4					<table border="1" style="font-size: x-small; border-collapse: collapse;"> <tr> <td>FED. ROAD DIST. NO.</td> <td>ILLINOIS</td> <td>FED. AID PROJECT</td> </tr> </table>					FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT												
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT																																

• MINIMUM 1' LAP ON U BARS



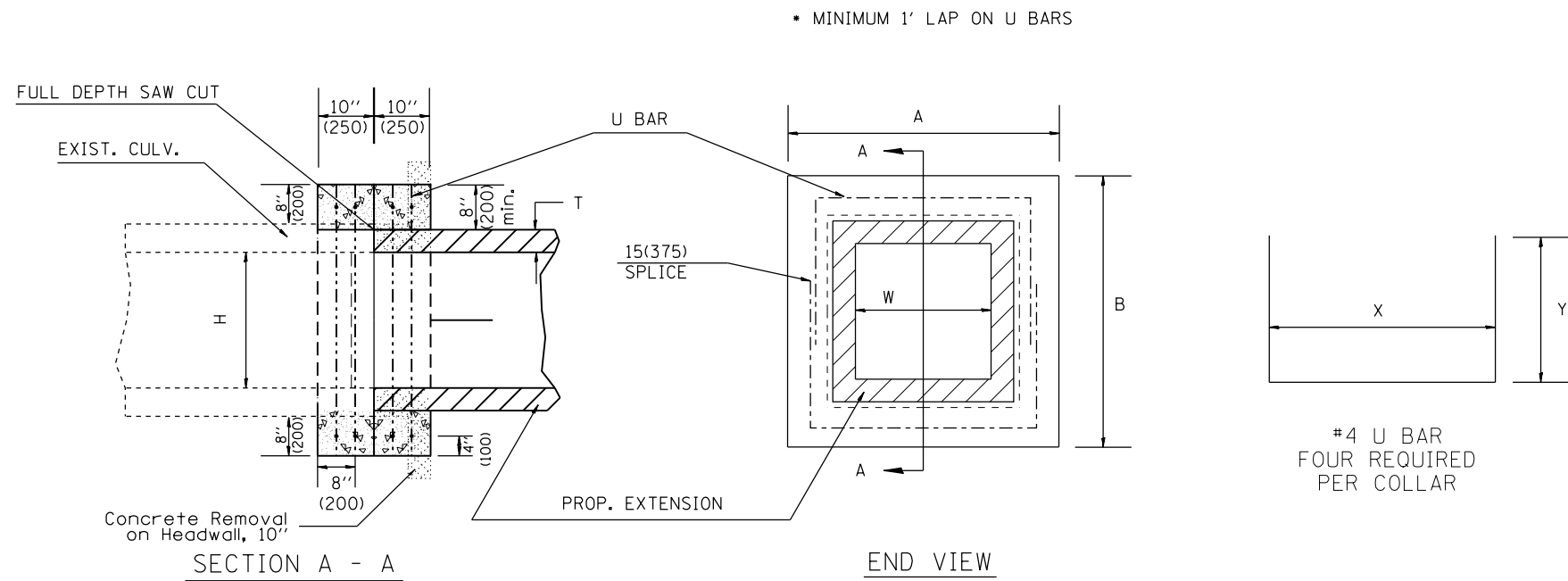
GENERAL NOTES

1. The collar shall be constructed entirely of class SI concrete and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
2. Expansion bolts shall consist of approved expansions anchors, and 3/4" (M20) hook bolts which conform to Section 1006.09. These bolts shall extend at least 8"(200) into the new concrete.
3. This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

EXISTING BOX		A	B	T	EACH COLLAR				
W ft (mm)	H ft (mm)				CL SI CU YD (m <sup>3</sup> )	REINFORCEMENT BARS X Y POUNDS (kg)	EXPANSION BOLTS NO.		
2 (600)	2 (600)	4'-0" (1.22m)	4'-0" (1.22m)	4(100)	0.27(0.21)	3'-4" (1.02m)	27.5(698)	21 (9.5)	8
3 (900)	2 (600)	5'-0" (1.52m)	4'-0" (1.22m)	4(100)	0.32(0.24)	4'-4" (1.32m)	27.5(698)	24 (11)	8
3 (900)	2.5 (750)	5'-0" (1.52m)	4'-6" (1.37m)	4(100)	0.34(0.26)	4'-4" (1.32m)	30.5(774)	25 (11.5)	8
3 (900)	3 (900)	5'-0" (1.52m)	5'-0" (1.52m)	4(100)	0.36(0.28)	4'-4" (1.32m)	33.5(850)	26.5 (12)	8
3 (900)	4 (1200)	5'-2" (1.57m)	6'-2" (1.88m)	5(125)	0.41(0.31)	4'-6" (1.37m)	40.5(1.03m)	30 (13.5)	10
4 (1200)	3 (900)	6'-2" (1.88m)	5'-2" (1.57m)	5(125)	0.41(0.31)	5'-6" (1.68m)	34.5(876)	30 (13.5)	10
4 (1200)	4 (1200)	6'-2" (1.88m)	6'-2" (1.88m)	5(125)	0.45(0.34)	5'-6" (1.68m)	40.5(1.03m)	33 (15)	12
4 (1200)	5 (1500)	6'-4" (1.93m)	7'-4" (2.24m)	6(150)	0.51(0.39)	5'-8" (1.73m)	3'-11.5"(1.21m)	36 (16.5)	14
5 (1500)	4 (1200)	7'-4" (2.24m)	6'-4" (1.93m)	6(150)	0.51(0.39)	6'-8" (2.03m)	3'-5.5"(1.05m)	36 (16.5)	14
5 (1500)	5 (1500)	7'-4" (2.24m)	7'-4" (2.24m)	6(150)	0.55(0.42)	6'-8" (2.03m)	3'-11.5"(1.21m)	39 (17.5)	16
5 (1500)	6 (1800)	7'-6" (2.29m)	8'-6" (2.59m)	7(175)	0.60(0.46)	6'-10" (2.08m)	4'-6.5"(1.38m)	42.5 (19)	16
6 (1800)	4 (1200)	8'-6" (2.59m)	6'-6" (1.98m)	7(175)	0.56(0.43)	7'-10" (2.39m)	3'-6.5"(1.08m)	40 (18)	14
6 (1800)	5 (1500)	8'-6" (2.59m)	7'-6" (2.29m)	7(175)	0.60(0.46)	7'-10" (2.39m)	4'-0.5"(1.23m)	42.5 (19)	16
6 (1800)	6 (1800)	8'-6" (2.59m)	8'-6" (2.59m)	7(175)	0.64(0.49)	7'-10" (2.39m)	4'-6.5"(1.38m)	45 (20.5)	16
6 (1800)	8 (2400)	8'-8" (2.64m)	10'-8" (3.25m)	8(200)	0.74(0.57)	8'-0" (2.44m)	5'-7.5"(1.71m)	51.5 (23)	18
8 (2400)	8 (2400)	10'-8" (3.25m)	10'-8" (3.25m)	8(200)	0.82(0.63)	10'-0" (3.05m)	5'-7.5"(1.71m)	57 (26)	20

QUANTITIES  
 CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

All dimensions are in inches (millimeters) unless otherwise noted.



Existing Headwall Removal

DIMENSIONS

GENERAL NOTES

1. The collar shall be constructed entirely of class SI concrete and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
2. Expansion bolts shall consist of approved expansions anchors, and  $\frac{3}{4}$ " (M20) hook bolts which conform to Section 1006.09. These bolts shall extend at least 8"(200) into the new concrete.
3. This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.
4. Class SI quantity is only an estimate. Revise based on thickness of existing box wall thickness.

EXISTING BOX		A	B	T	EACH COLLAR			
W	H				CL SI	REINFORCEMENT BARS		POUNDS (kg)
ft (mm)	ft (mm)				CU YD (m <sup>3</sup> )	X	Y	
2 (600)	2 (600)	4'-0" (1.22m)	4'-0" (1.22m)	4(100)	0.27(0.21)	3'-4" (1.02m)	27.5(698)	21 (9.5)
3 (900)	2 (600)	5'-0" (1.52m)	4'-0" (1.22m)	4(100)	0.32(0.24)	4'-4" (1.32m)	27.5(698)	24 (11)
3 (900)	2.5 (750)	5'-0" (1.52m)	4'-6" (1.37m)	4(100)	0.34(0.26)	4'-4" (1.32m)	30.5(774)	25 (11.5)
3 (900)	3 (900)	5'-0" (1.52m)	5'-0" (1.52m)	4(100)	0.36(0.28)	4'-4" (1.32m)	33.5(850)	26.5 (12)
3 (900)	4 (1200)	5'-2" (1.57m)	6'-2" (1.88m)	5(125)	0.41(0.31)	4'-6" (1.37m)	40.5(1.03m)	30 (13.5)
4 (1200)	3 (900)	6'-2" (1.88m)	5'-2" (1.57m)	5(125)	0.41(0.31)	5'-6" (1.68m)	34.5(876)	30 (13.5)
4 (1200)	4 (1200)	6'-2" (1.88m)	6'-2" (1.88m)	5(125)	0.45(0.34)	5'-6" (1.68m)	40.5(1.03m)	33 (15)
4 (1200)	5 (1500)	6'-4" (1.93m)	7'-4" (2.24m)	6(150)	0.51(0.39)	5'-8" (1.73m)	3'-11.5"(1.21m)	36 (16.5)
5 (1500)	4 (1200)	7'-4" (2.24m)	6'-4" (1.93m)	6(150)	0.51(0.39)	6'-8" (2.03m)	3'-4.5"(1.05m)	36 (16.5)
5 (1500)	5 (1500)	7'-4" (2.24m)	7'-4" (2.24m)	6(150)	0.55(0.42)	6'-8" (2.03m)	3'-11.5"(1.21m)	39 (17.5)
5 (1500)	6 (1800)	7'-6" (2.29m)	8'-6" (2.59m)	7(175)	0.60(0.46)	6'-10" (2.08m)	4'-6.5"(1.38m)	42.5 (19)
6 (1800)	4 (1200)	8'-6" (2.59m)	6'-6" (1.98m)	7(175)	0.56(0.43)	7'-10" (2.39m)	3'-6.5"(1.08m)	40 (18)
6 (1800)	5 (1500)	8'-6" (2.59m)	7'-6" (2.29m)	7(175)	0.60(0.46)	7'-10" (2.39m)	4'-0.5"(1.23m)	42.5 (19)
6 (1800)	6 (1800)	8'-6" (2.59m)	8'-6" (2.59m)	7(175)	0.64(0.49)	7'-10" (2.39m)	4'-6.5"(1.38m)	45 (20.5)
6 (1800)	8 (2400)	8'-8" (2.64m)	10'-8" (3.25m)	8(200)	0.74(0.57)	8'-0" (2.44m)	5'-7.5"(1.71m)	51.5 (23)
8 (2400)	8 (2400)	10'-8" (3.25m)	10'-8" (3.25m)	8(200)	0.82(0.63)	10'-0" (3.05m)	5'-7.5"(1.71m)	57 (26)

QUANTITIES

CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE, BUREAU OF PROJECT IMPLEMENTATION, DOCUMENTATION SECTION

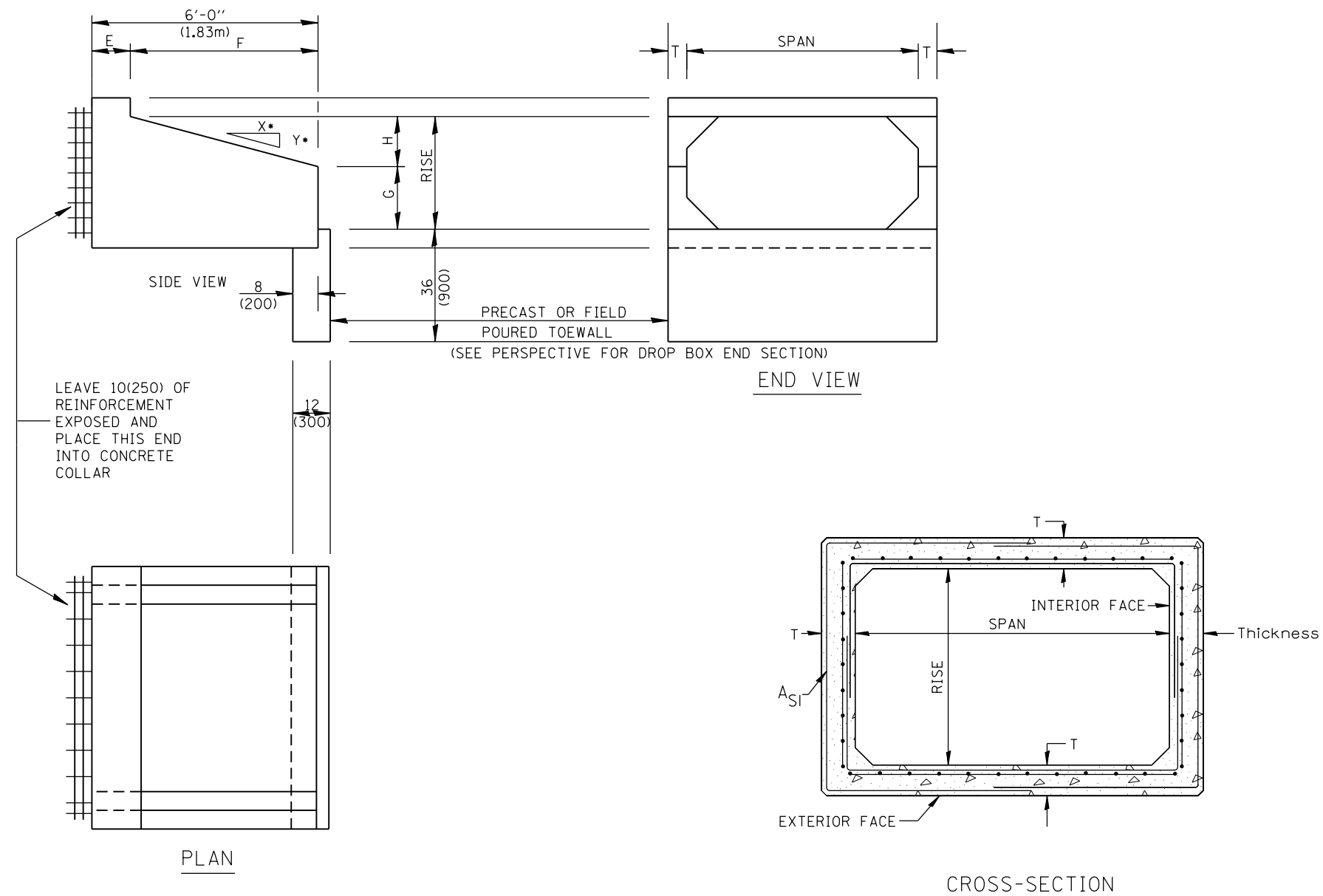
All dimensions are in inches (millimeters) unless otherwise noted.

2-15-11	NEW STANDARD	R.D.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COLLAR FOR BOX CULVERT EXTENSIONS WITH HEADWALL REMOVAL	NOT TO SCALE	CADD STD. 540002-D4	<table border="1"> <tr> <th>F.A.P. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>310</td> <td>101W-1,RS-2; 28W-1,RS-5</td> <td>WARREN/MERCER</td> <td>234</td> <td>164</td> </tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	164
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	164																

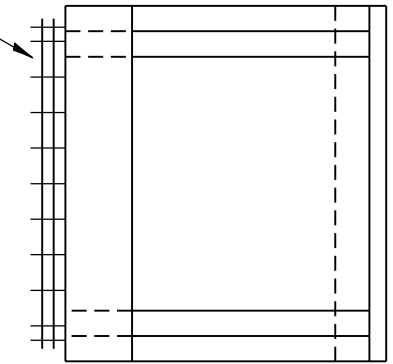
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



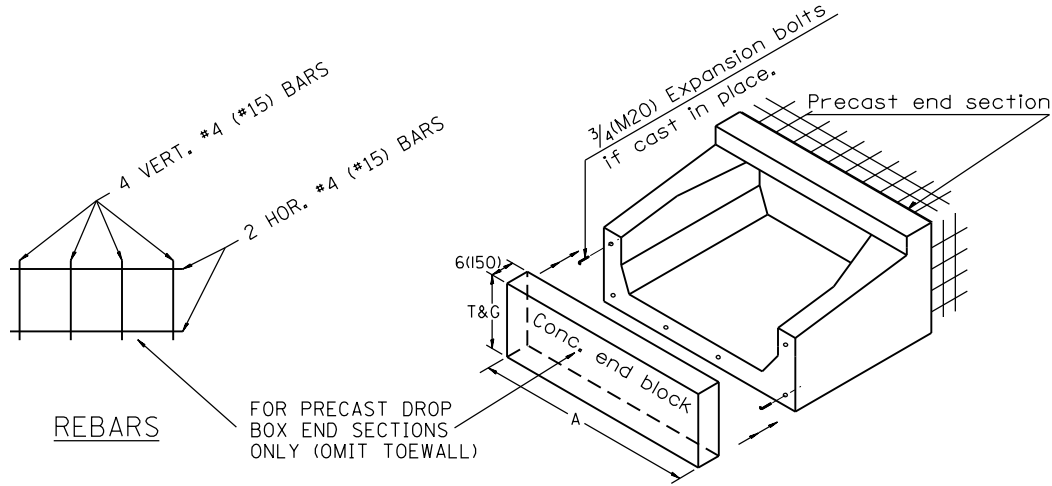




LEAVE 10(250) OF REINFORCEMENT EXPOSED AND PLACE THIS END INTO CONCRETE COLLAR



PLAN



PERSPECTIVE

**GENERAL NOTES:**

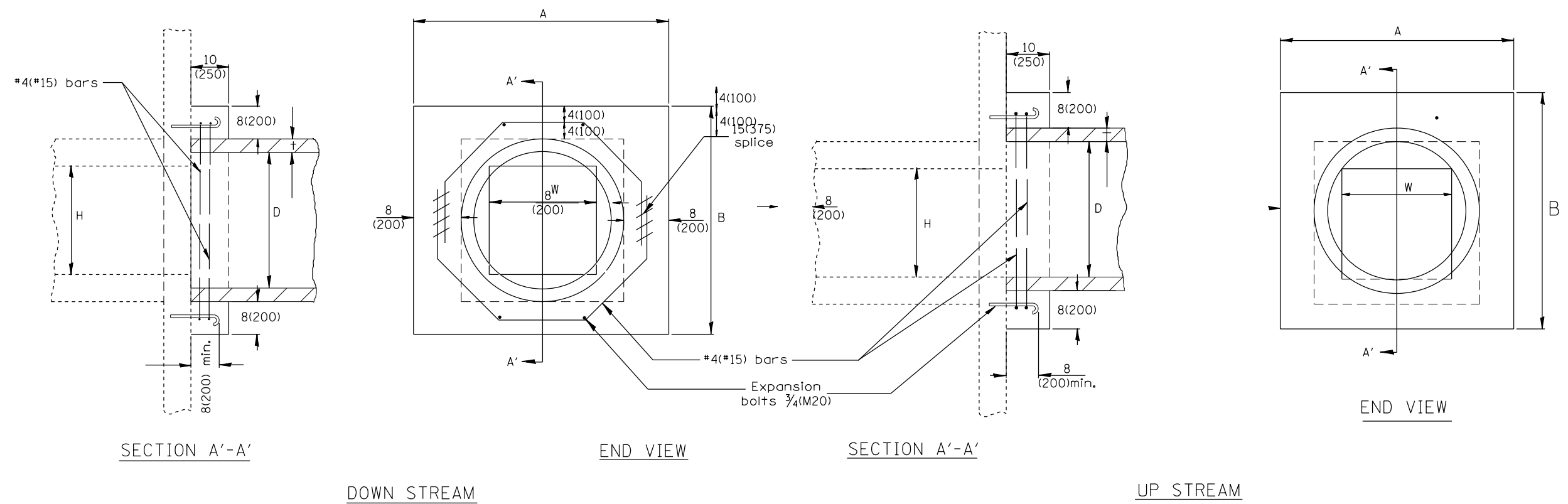
1. The Box Culvert Sections shall conform to ASTM C1577.
2. The External Sealing Band shall conform to ASTM C 877. The appropriate portions of Articles 550.02(I) and 1057.01 of the Standard Specifications shall apply.
3. Shop plans for the Precast Reinforced Box Culvert Sections, End Sections and Drop Box End Sections shall be submitted in accordance with Article 540.06 of the Standard Specifications.
4. All dimensions shall be verified with the Supplier.
5. Details on this sheet show a rectangular box culvert. shop plans shall be modified for a circular pipe for locations connecting to circular pipes.

**LOCATIONS**

1. STA. 1259+86.59, RT
2. STA. 1263+62.84, RT
4. STA. 898+88.40, LT

All dimensions are in inches (millimeters) unless otherwise noted.

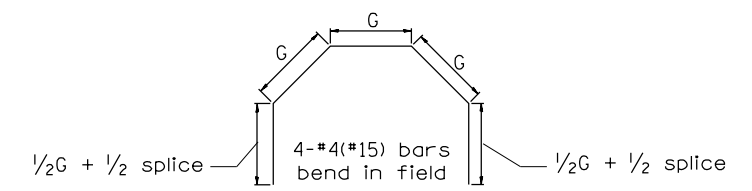
01-01-97	RENUM. J-12.08 AND J-12.09, NEW FORMAT, METRICS.	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DROP BOX DETAIL</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
05-01-97	NEW REVISION BOX, NOTES		04-16-12	REVISED	R.D.			310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	166
06-17-99	CORRECT TITLE & GEN. NOTES	J.A.						CONTRACT NO. 68636				
	CORRECT DIMENSIONS	J.A.				NOT TO SCALE	CADD STD. 540401-D4	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



**LOCATIONS**

1. STA. 1245+70.13, LT & RT
2. STA. 1259+86.59, LT & RT
3. STA. 1263+62.84, LT & RT
4. STA. 1266+32.61, LT & RT

EXISTING BOX		A	B	D	t	EACH COLLAR				
W	H					CONC. COLLAR CU. YD. (m³)	REINFORCEMENT BARS		EXPANSION BOLT EACH	
						g	L	LBS. (KG)		
12(300) PIPE		32 (810)	32 (810)	12 (300)	2(50)	0.18(0.14)	10 (254)	4'-7" (1.40m)	12(5.5)	4
18(450) PIPE		39 (990)	39 (990)	18 (450)	2 1/2(65)	0.24(0.18)	12 3/4 (324)	5'-6" (1.68m)	15(7)	4
24(600) PIPE		3'-10" (1.17m)	3'-10" (1.17m)	24 (600)	3(75)	0.30(0.23)	15 3/4 (400)	6'-6" (1.98m)	17(8)	4
24(600)	24(600)	4'-5" (1.35m)	4'-5" (1.35m)	30 (750)	3 1/2(90)	0.37(0.28)	18 3/4 (416)	7'-6" (2.29m)	20(9)	4
30(750)	30(750)	5'-0" (1.52m)	5'-0" (1.52m)	36 (900)	4(100)	0.45(0.34)	21 1/2 (546)	8'-5" (2.57m)	22.5(10)	8
36(900)	36(900)	5'-7" (1.7m)	5'-7" (1.7m)	42 (1050)	4 1/2(115)	0.50(0.38)	24 1/2 (622)	9'-5" (2.87m)	25(11)	10
42(1050)	42(1050)	6'-2" (1.88m)	6'-2" (1.88m)	48 (1200)	5(125)	0.61(0.47)	27 1/4 (692)	10'-4" (3.15m)	28(12.5)	10
48(1200)	48(1200)	6'-9" (2.06m)	6'-9" (2.06m)	54 (1350)	5 1/2(140)	0.80(0.61)	30 1/4 (768)	11'-4" (3.45m)	30(14)	10
24	36	5'-0"	5'-0"	36	4	0.45	21 1/2	8'-5"	23	8

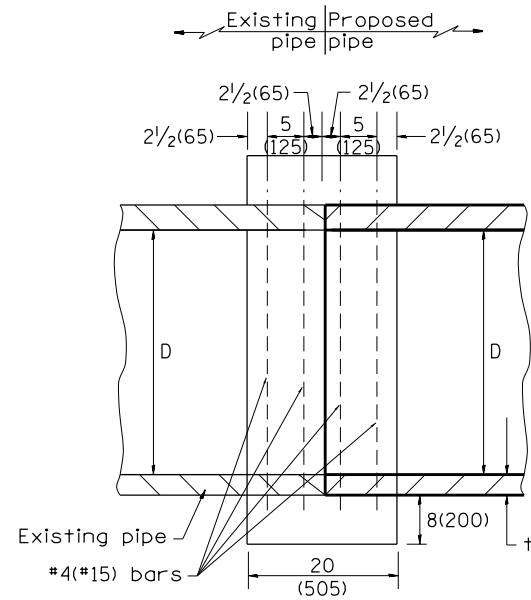


**GENERAL NOTES**

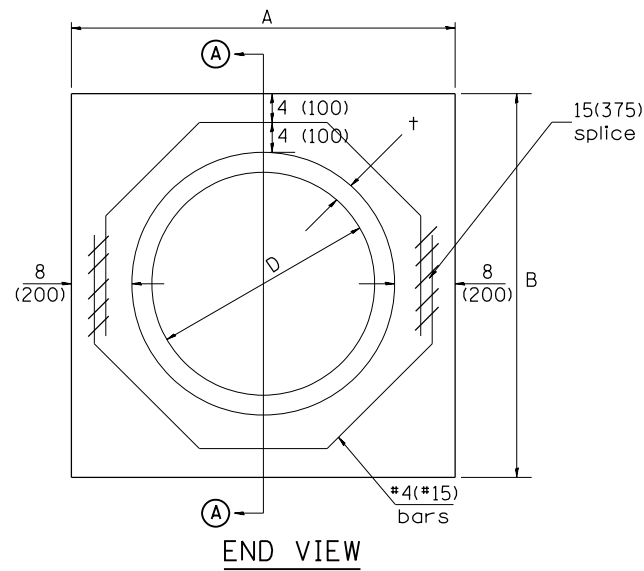
1. The collar shall be constructed entirely of CLASS SI CONCRETE and in accordance with the applicable portions of Section 503 of the Standard Specifications. Reinforcement Bars shall conform to Section 508.
2. Expansion Bolts shall consist of approved Expansion Anchors, and 3/4(M20) Hook Bolts which conform to Section 1006.09. These Bolts shall extend at least 8(200) into the new Concrete.
3. This work will be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR, by the pound (kg) for REINFORCEMENT BARS, and by Each for EXPANSION BOLTS of the size indicated.

QUANTITIES	
CALC. BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION	

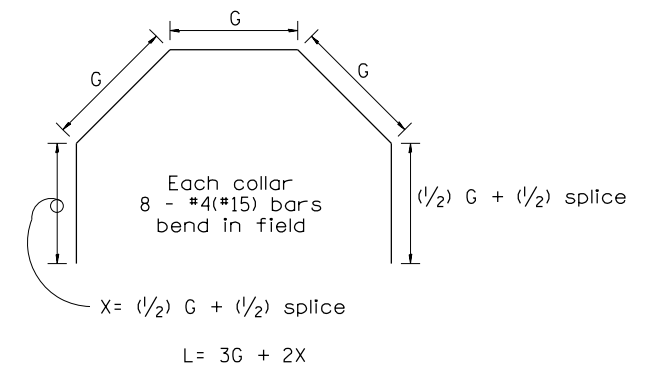
All dimensions are in inches (millimeters) unless otherwise noted.



SECTION A - A



END VIEW



Each Collar									
					Reinforcement Bars				
D	t	A	B	CL. SI CONC.	G	X	L	Weight	
in (mm)	in (mm)	ft (m)	ft (m)	cu.yd. (m <sup>3</sup> )	in (mm)	in (mm)	ft (m)	lb (kg)	
12 (300)	2.00 (51)	2.67 (0.814)	2.67 (0.814)	0.4 (0.270)	9 <sup>15</sup> / <sub>16</sub> (253)	12 <sup>7</sup> / <sub>16</sub> (317)	4.57 (1.393)	24 (11)	
15 (375)	2.25 (57)	2.96 (0.902)	2.96 (0.902)	0.4 (0.315)	11 <sup>3</sup> / <sub>8</sub> (290)	13 <sup>3</sup> / <sub>16</sub> (335)	5.05 (1.541)	27 (12)	
18 (450)	2.50 (64)	3.25 (0.991)	3.25 (0.991)	0.5 (0.362)	12 <sup>13</sup> / <sub>16</sub> (327)	13 <sup>7</sup> / <sub>8</sub> (354)	5.54 (1.689)	30 (14)	
21 (525)	2.75 (70)	3.54 (1.079)	3.54 (1.079)	0.5 (0.411)	14 <sup>1</sup> / <sub>4</sub> (364)	14 <sup>5</sup> / <sub>8</sub> (372)	6.02 (1.836)	32 (15)	
24 (600)	3.00 (76)	3.83 (1.167)	3.84 (1.167)	0.6 (0.460)	15 <sup>11</sup> / <sub>16</sub> (401)	15 <sup>5</sup> / <sub>16</sub> (391)	6.51 (1.984)	35 (16)	
27 (675)	3.25 (83)	4.13 (1.259)	4.13 (1.259)	0.7 (0.516)	17 <sup>1</sup> / <sub>4</sub> (438)	16 <sup>1</sup> / <sub>16</sub> (409)	6.99 (2.131)	37 (17)	
30 (750)	3.50 (89)	4.42 (1.347)	4.42 (1.347)	0.7 (0.570)	18 <sup>11</sup> / <sub>16</sub> (475)	16 <sup>3</sup> / <sub>4</sub> (428)	7.48 (2.279)	40 (18)	
33 (825)	3.75 (95)	4.71 (1.436)	4.71 (1.436)	0.8 (0.624)	20 <sup>1</sup> / <sub>8</sub> (512)	17 <sup>1</sup> / <sub>2</sub> (446)	7.96 (2.426)	43 (19)	
36 (900)	4.00 (102)	5.00 (1.524)	5.00 (1.524)	0.9 (0.682)	21 <sup>9</sup> / <sub>16</sub> (549)	18 <sup>3</sup> / <sub>16</sub> (465)	8.44 (2.574)	45 (20)	
42 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 <sup>7</sup> / <sub>16</sub> (622)	19 <sup>3</sup> / <sub>4</sub> (501)	9.41 (2.869)	50 (23)	
48 (1200)	5.00 (127)	6.17 (1.881)	6.17 (1.881)	1.2 (0.930)	27 <sup>5</sup> / <sub>16</sub> (696)	21 <sup>3</sup> / <sub>16</sub> (538)	10.38 (3.164)	55 (25)	

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
2. This work shall be paid for by the cubic yard (cubic meter) for CONCRETE COLLAR and by the pound (kg) for REINFORCEMENT BARS.

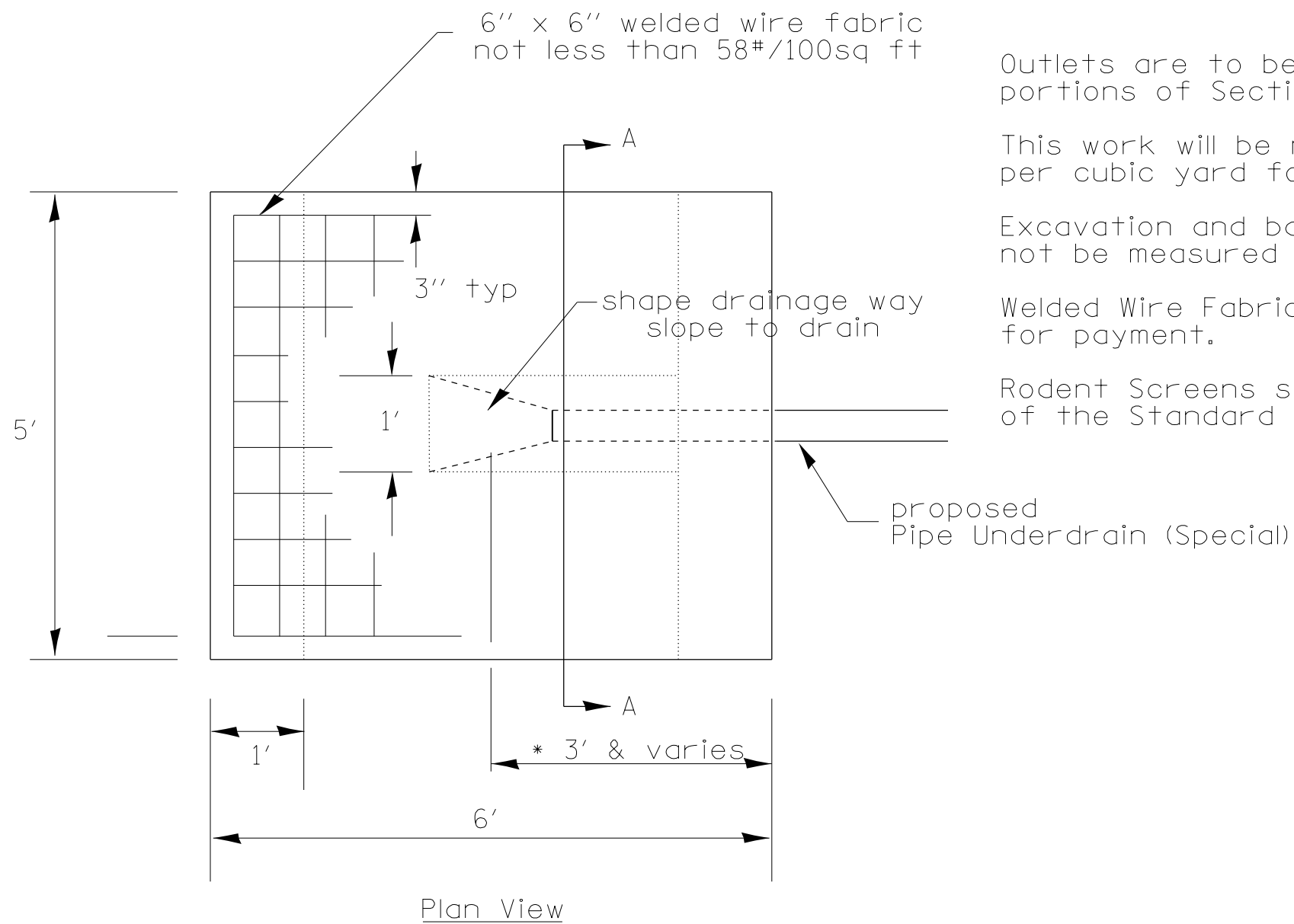
QUANTITIES	
CALC. BY: R. J. D.	2-2-98 DATE:
CHECKED BY: R. D. H.	2-6-98 DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

All dimensions are in inches (millimeters) unless otherwise noted.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION)		CONTRACT NO. 68636	
01-01-97	RENUM. B-8.03, NEW REVISION BOX, REVISED	T.P.	09-01-00	CORRECT WEIGHT	J.A.
10-16-06	TITLE BOX, ADDED QUANTITY CALCULATION BOX	J.A.	10-16-06	REV. TO 2007 SPEC., CORRECT mm UNITS	M.A.
04-01-97	CORRECT BAR	J.A.	2-15-11	ADDED GENERAL NOTE #2	R.D.
02-10-98	REVISE QUANTITIES	J.A.			

NOT TO SCALE CADD STD. 542016-D4



Outlets are to be constructed in accordance with applicable portions of Section 606 of the Standard Specifications.

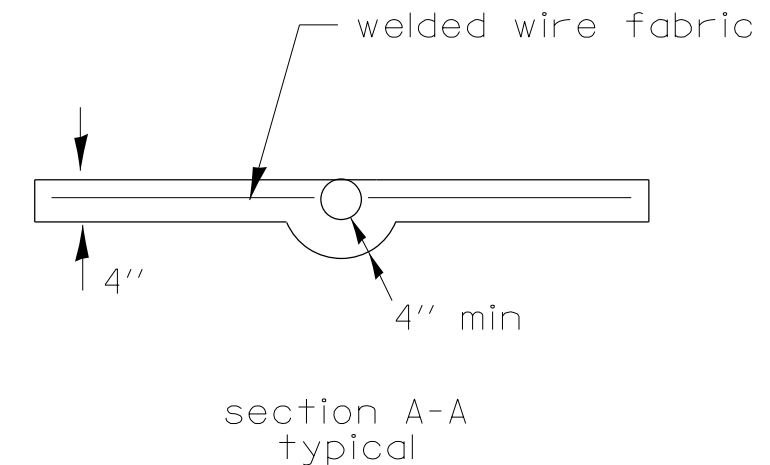
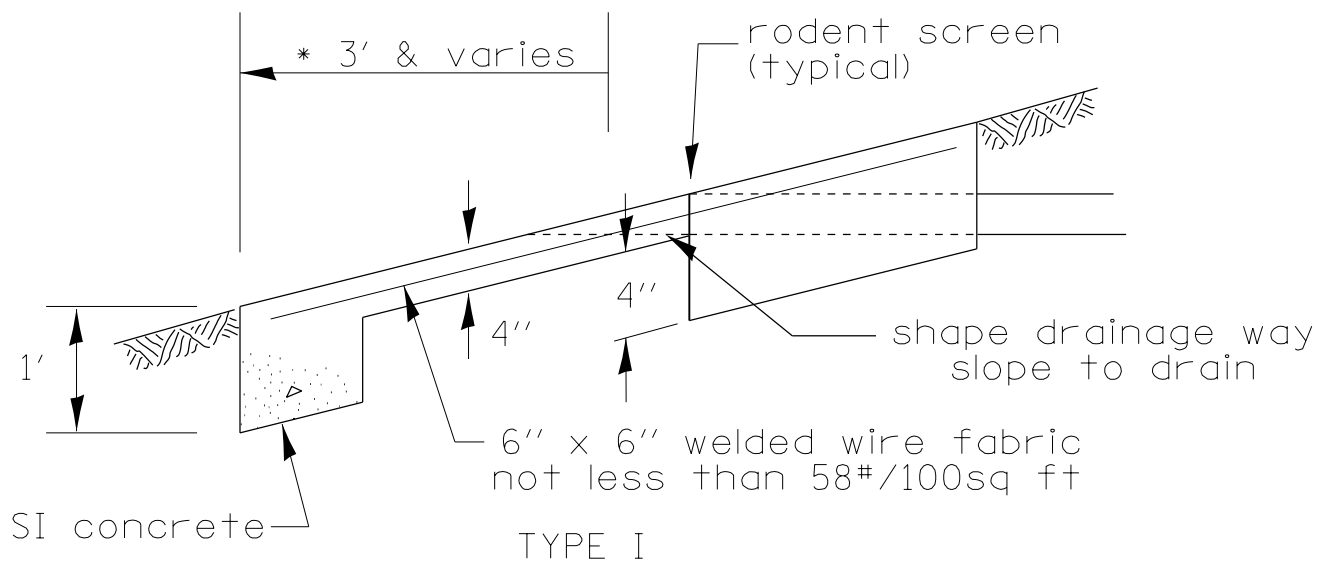
This work will be measured for payment at the contract unit price per cubic yard for CLASS SI CONCRETE FOR PIPE UNDERDRAIN OUTLET

Excavation and backfill required for this work will not be measured for payment.

Welded Wire Fabric required for this work will not be measured for payment.

Rodent Screens shall be in accordance with Article 601.05 of the Standard Specifications and State Standard 601101.

Quantities	
Class SI Cu Yd	WWF Sq Yd
.63	2.75



All dimensions are in inches (millimeters) unless otherwise noted.

08-21-13	NEW STANDARD	R.D.			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

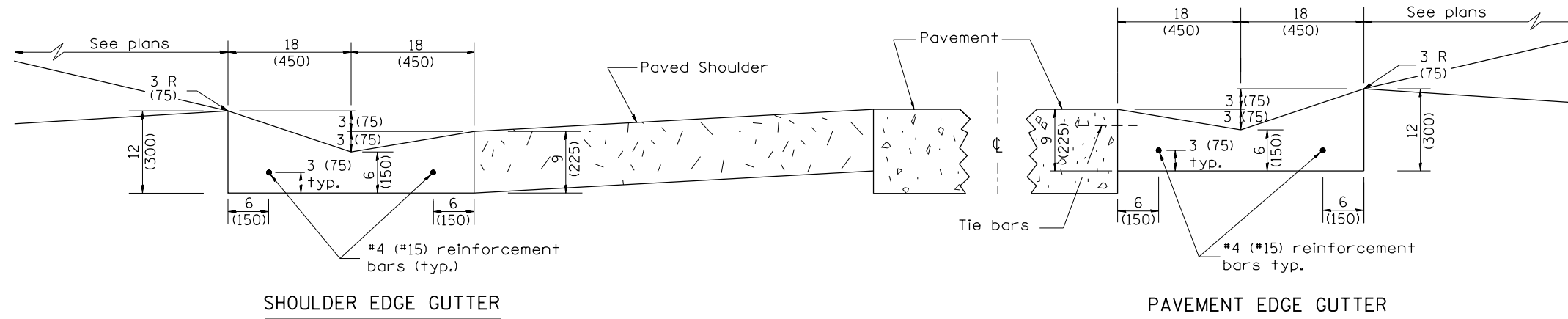
UNDERDRAIN OUTLET PROTECTION

NOT TO SCALE

MOD. CADD STD. 601001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	169
CONTRACT NO. 68636				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

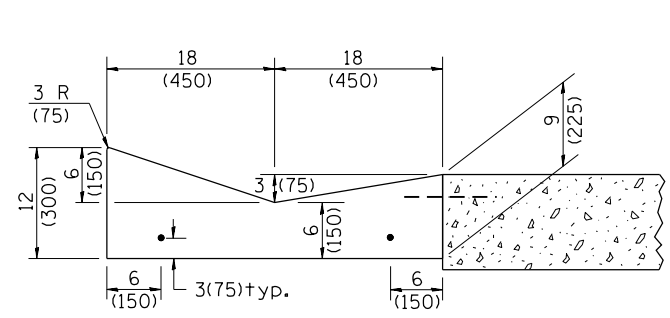
DESIGNER NOTES:  
 1. INCLUDE STATE STANDARD 420001.  
 2. PAY ITEM FOR INLETS, OUTLETS, AND ENTRANCES IS X6060097 CLASS SI CONCRETE (OUTLET), SPECIAL



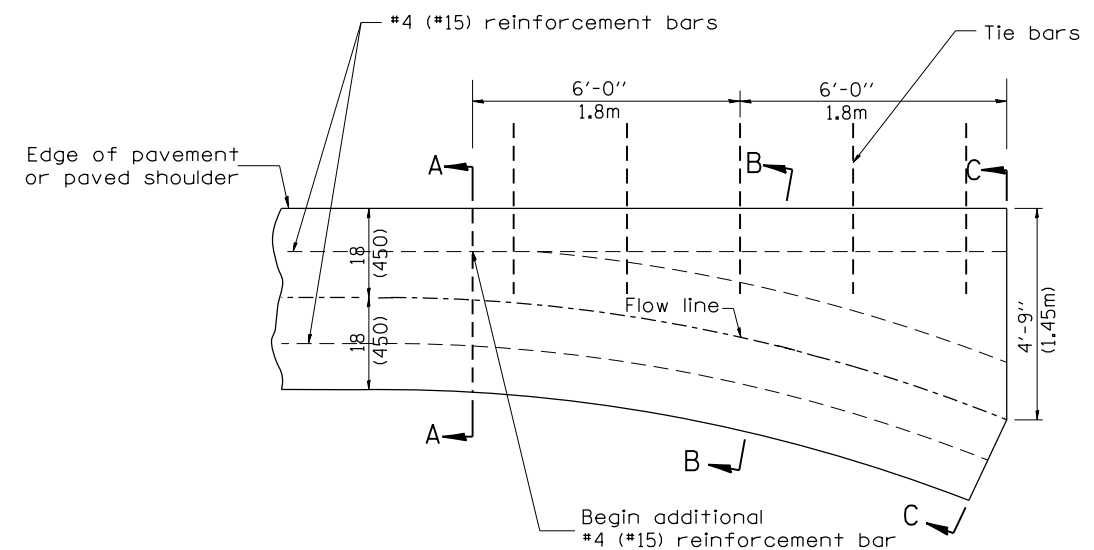
SHOULDER EDGE GUTTER

PAVEMENT EDGE GUTTER

CONCRETE GUTTER, TYPE A, (SPECIAL)

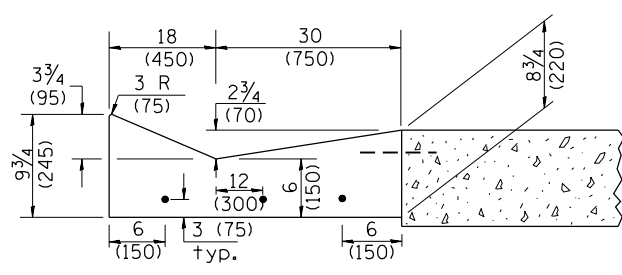


SECTION A-A

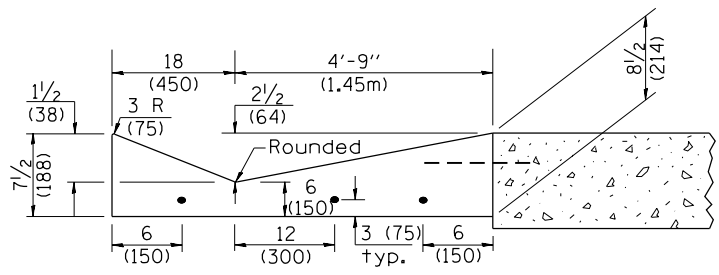


PLAN

**QUANTITY**  
 Section C-C to A-A= 1.2 cu. yd.  
 (0.92 m<sup>3</sup>) concrete.



SECTION B-B



SECTION C-C

INLET

GENERAL NOTES:

1. CONCRETE GUTTER, TYPE A, (SPECIAL) shall conform to the applicable portions of Section 606.
2. Tie bars shall be No. 6x24 (No. 19x600) at 36" (900mm) centers unless otherwise shown.
3. Gutter, gutter inlets, gutter outlets, and gutter entrances shall be tied to rigid pavement in accordance with details shown on Standard 420001.
4. Joints shall be constructed in accordance with Article 606.06.
5. Welded wire fabric shall conform to Article 1006.10(c)(1), and shall not be less than 58 lbs/100 sq.ft. (2.83 kg/m<sup>2</sup>).

All dimensions are in inches (millimeters) unless otherwise noted.

QUANTITIES	
CALC. BY:	DATE:
CHECKED BY:	DATE:

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

01-01-97	RENUM. A-1.02, NEW REVISION BOX, ELIMINATED	T.P.	01-10-07	REVISED QUANTITY	M.A.
	EXPANSION ANCHOR TIES		11-16-07	REVISED QUANTITY	M.A.
02-28-02	ENTRANCE TYPICALS REVISED	M.A.	02-15-11	CHANGED MODIFIED TO SPECIAL	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-31-18	REVISED TIE BAR SIZE & SPACING	R.D.

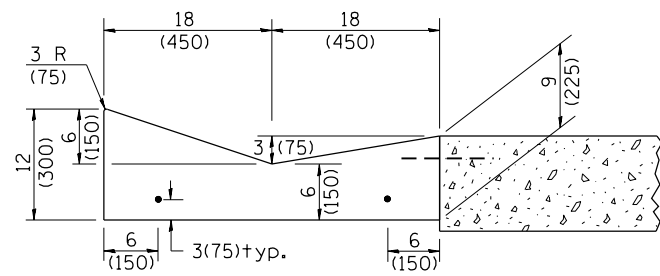
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE GUTTER, TYPE A, (SPECIAL)  
 (INLET, OUTLET & ENTRANCE)

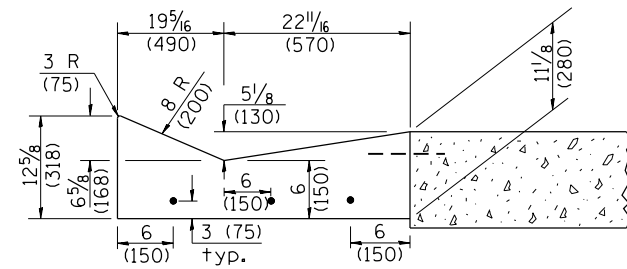
NOT TO SCALE

SHT. 1 OF 3  
 CADD STD. 606101-D4

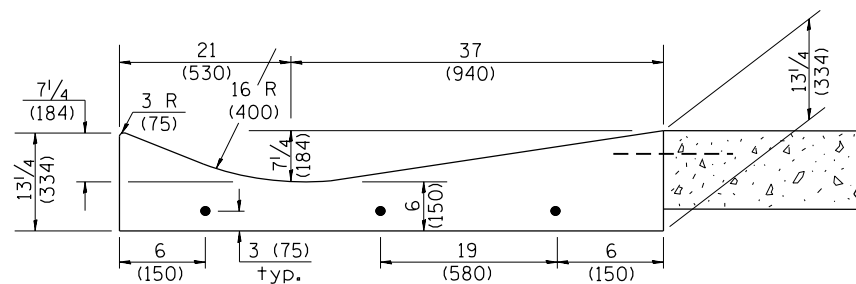
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	170
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



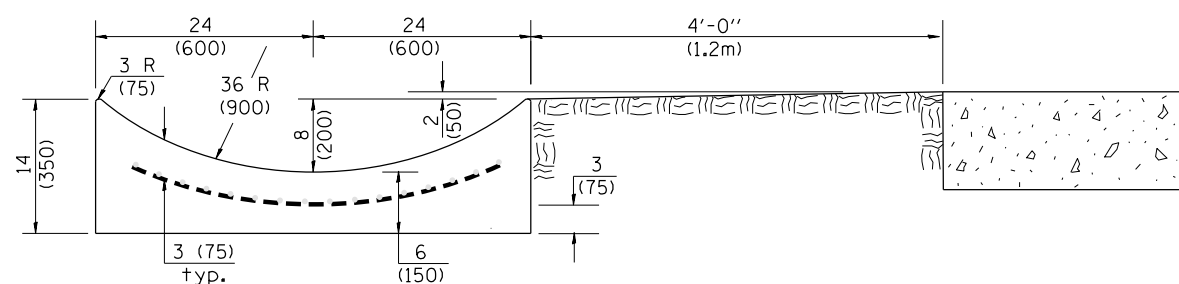
SECTION A-A



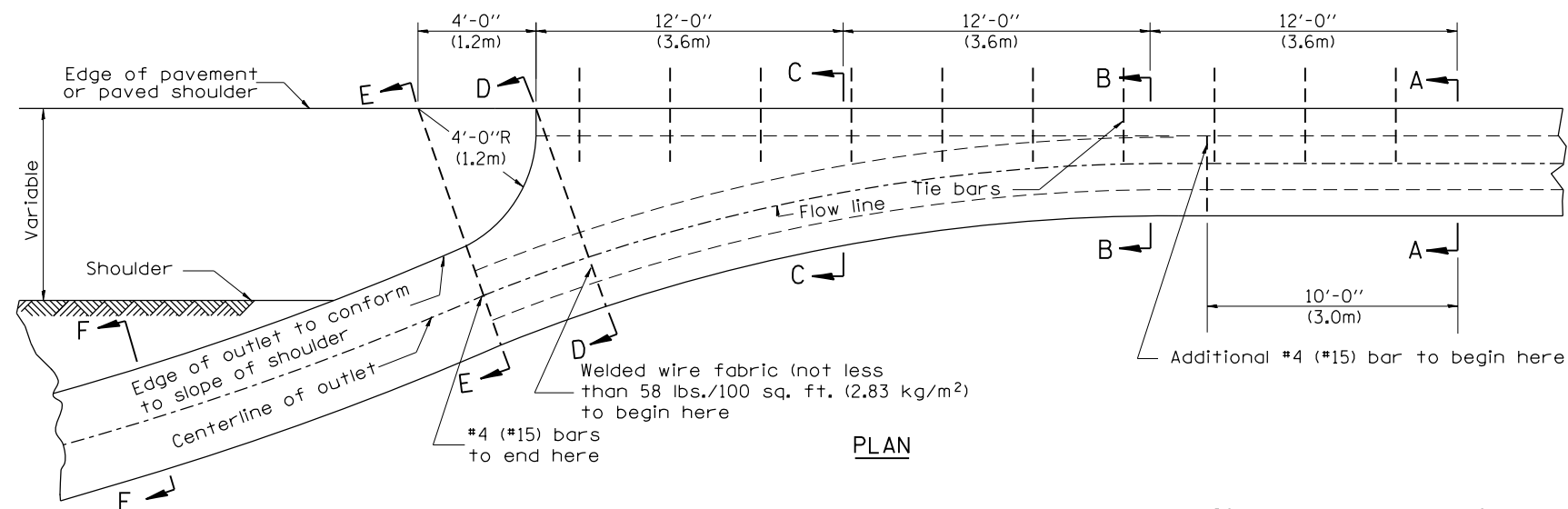
SECTION B-B



SECTION C-C



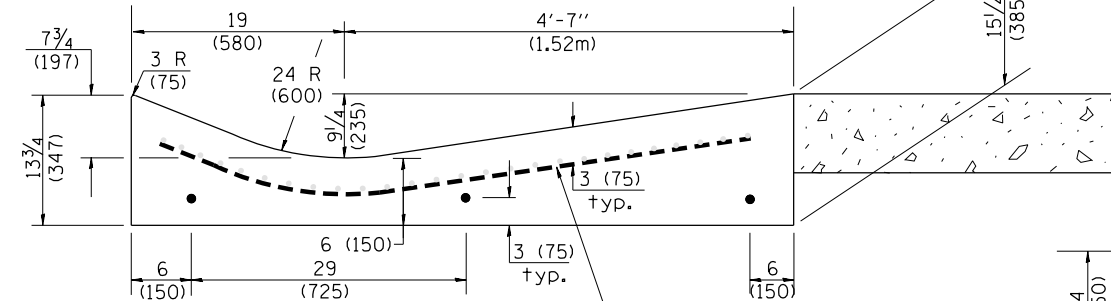
SECTION E-E



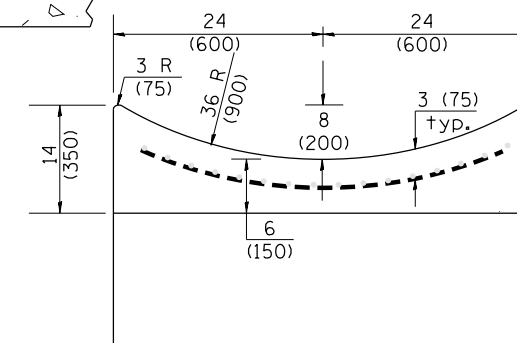
PLAN

**QUANTITY**  
 Section A-A to E-E = 4.5 cu. yd. (3.36 m<sup>3</sup>) concrete.  
 Section E-E to F-F = 0.10 cu. yd./ft. (0.26 m<sup>3</sup>/m) concrete.

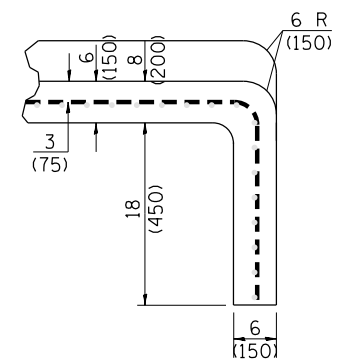
If the average grade of pavement for the distance from section A-A to section D-D exceeds 2%, this distance shall be increased 6 ft. (1.8 m) for each 1% increase in grade. A quantity adjustment is required.



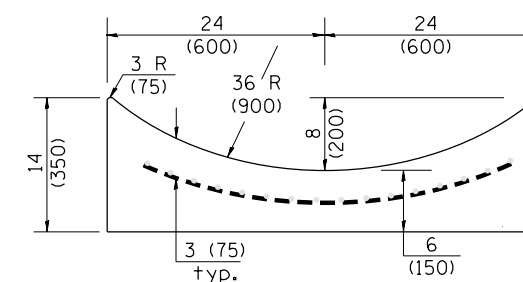
SECTION D-D



SECTION F-F



SECTIONS AT END OF OUTLET  
(CURTAIN WALL)

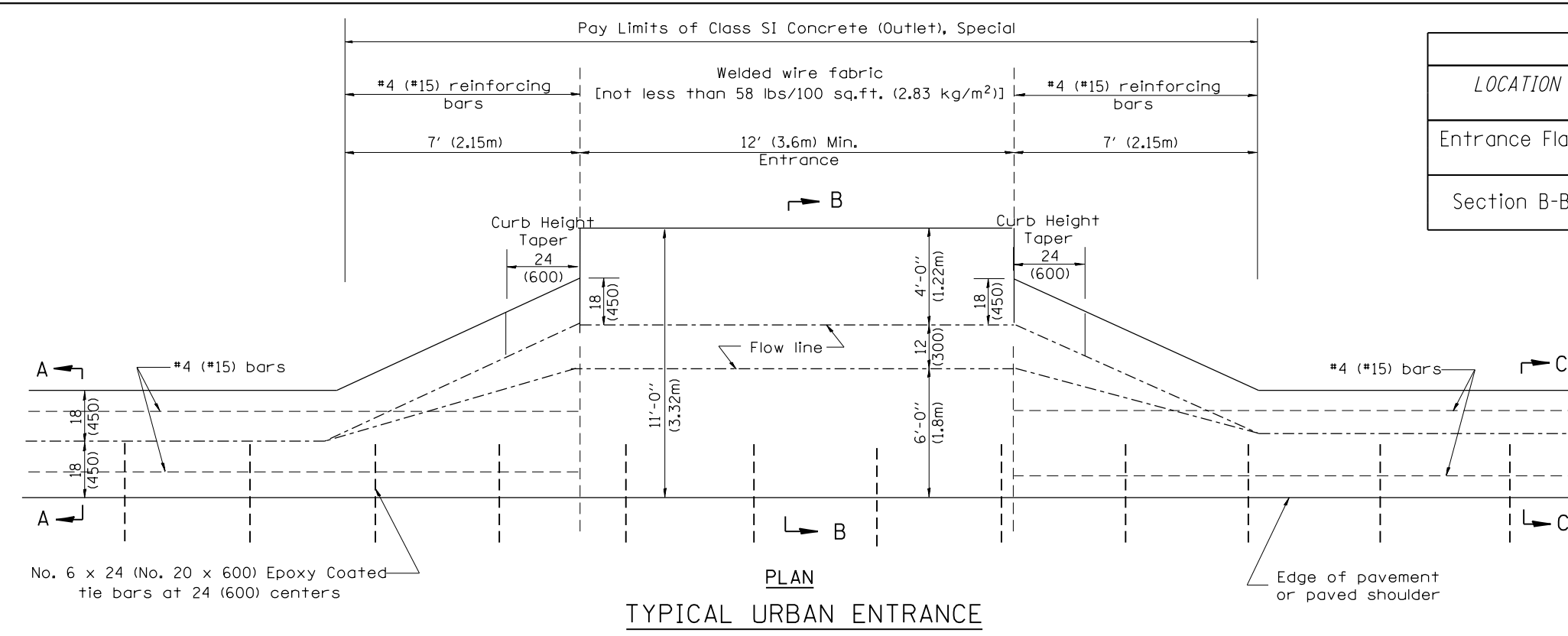


**QUANTITY**  
 Curtain Wall = 0.1 cu. yd. (0.08 m<sup>3</sup>) concrete.

OUTLET

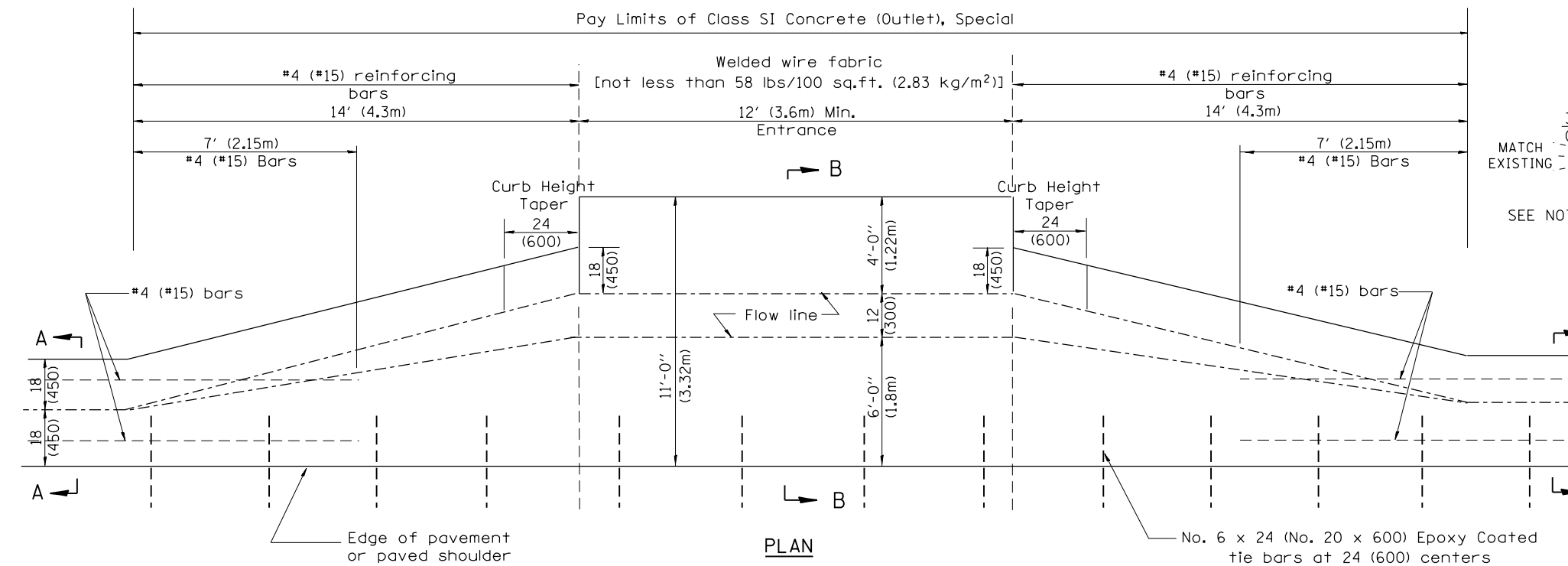
**QUANTITIES**  
 CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	171
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



No. 6 x 24 (No. 20 x 600) Epoxy Coated tie bars at 24 (600) centers

**PLAN**  
**TYPICAL URBAN ENTRANCE**



No. 6 x 24 (No. 20 x 600) Epoxy Coated tie bars at 24 (600) centers

**PLAN**  
**TYPICAL RURAL ENTRANCE**

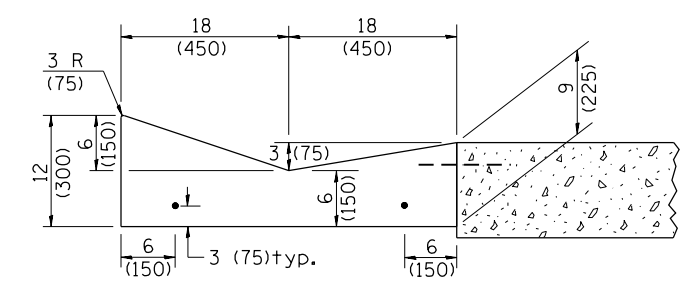
**QUANTITIES**

CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_

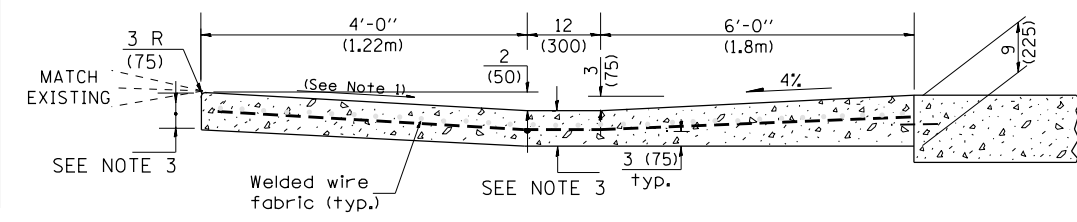
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

QUANTITY CALCULATION			
LOCATION	LENGTH	NON-COMMERCIAL 6 (150)	COMMERCIAL ENTRANCE 8 (200)
Entrance Flare	7 Ft (2.15 m) Urban 14 Ft (4.30 m) Rural	0.15 Cu Yd / Ft (0.37 Cu M / M)	0.18 Cu Yd / Ft (0.45 Cu M / M)
Section B-B	See Plans	0.23 Cu Yd / Ft (0.57 Cu M / M)	0.28 Cu Yd / Ft (0.70 Cu M / M)



**SECTION A-A & C-C**



**SECTION B-B**

- GENERAL NOTES**
- Slope may be increased from 4% (min.) to 6% (max.) in order to match the existing.
  - The cross-slope is to be constructed as given in the plans from back turnout to where driveway matches existing.
  - For Non-Commercial Entrances the driveway thickness shall be 6 (150). For Commercial Entrances the driveway thickness shall be 8 (200).

All dimensions are in inches (millimeters) unless otherwise noted.

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

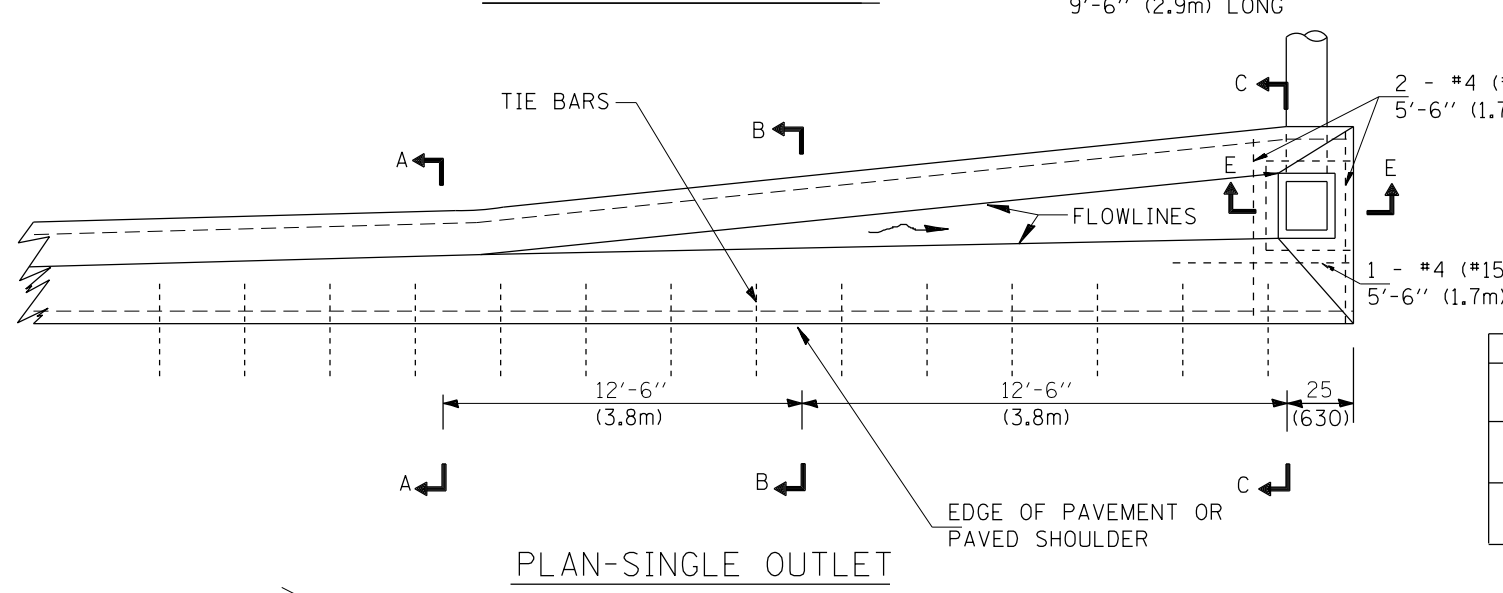
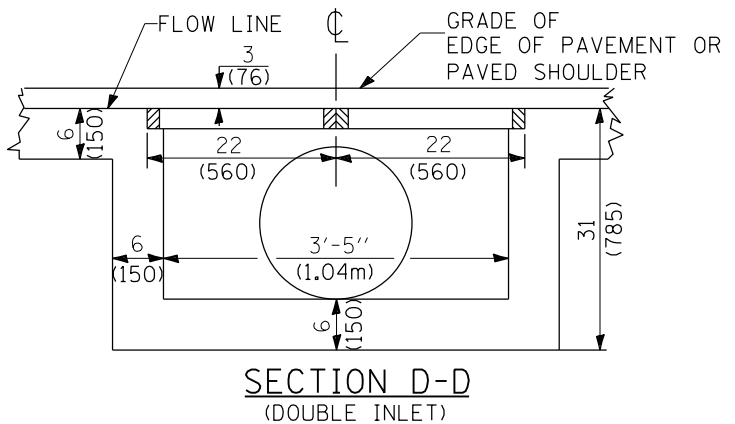
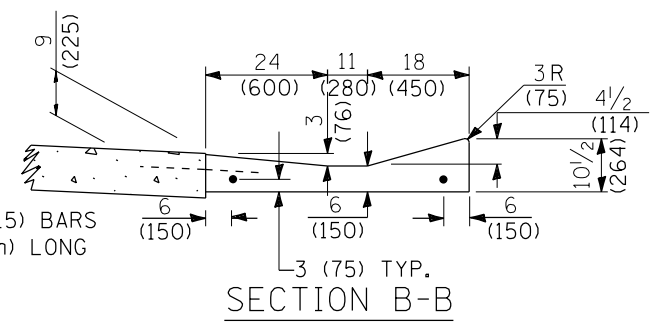
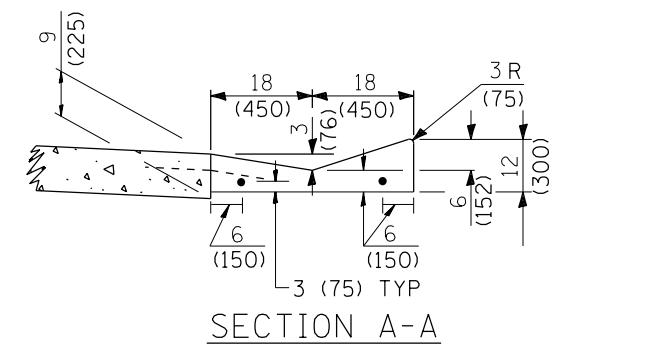
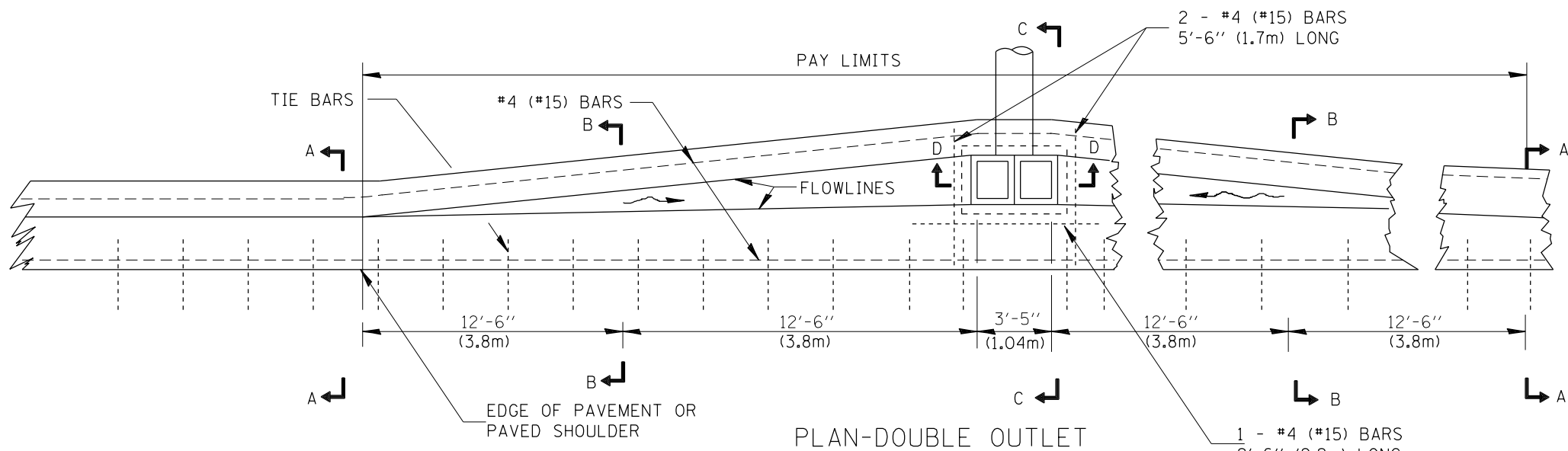
**CONCRETE GUTTER, TYPE A, (SPECIAL)**  
**(INLET, OUTLET & ENTRANCE)**

SHT. 3 OF 3  
CADD STD. 606101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	172
CONTRACT NO. 68636				

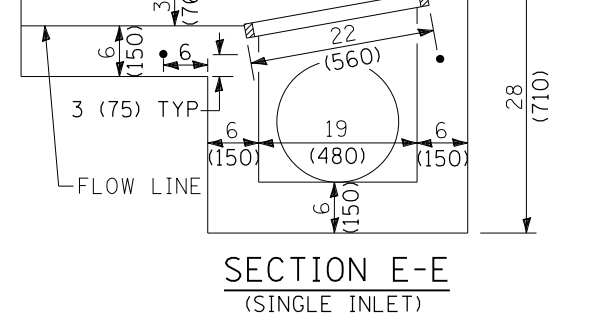
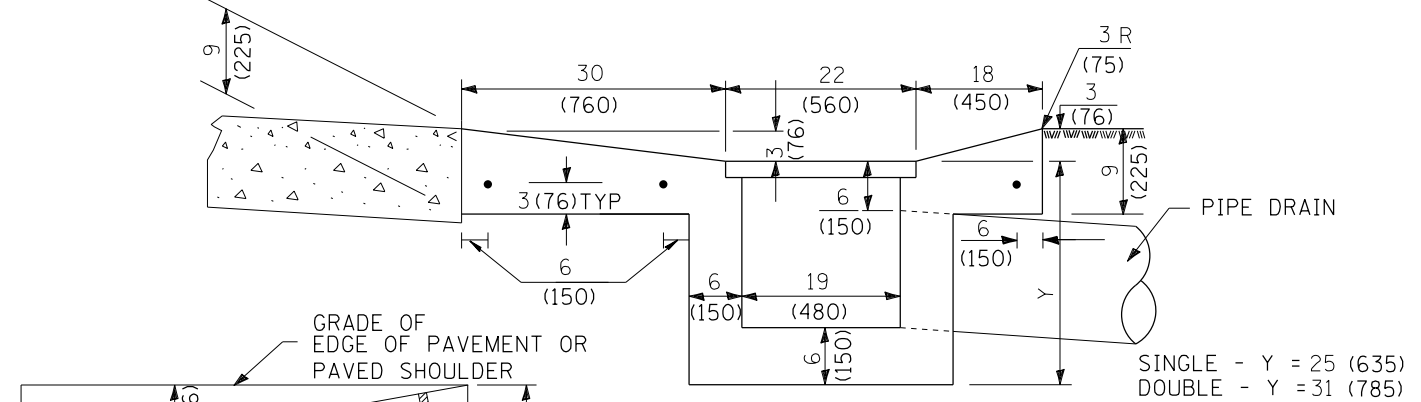
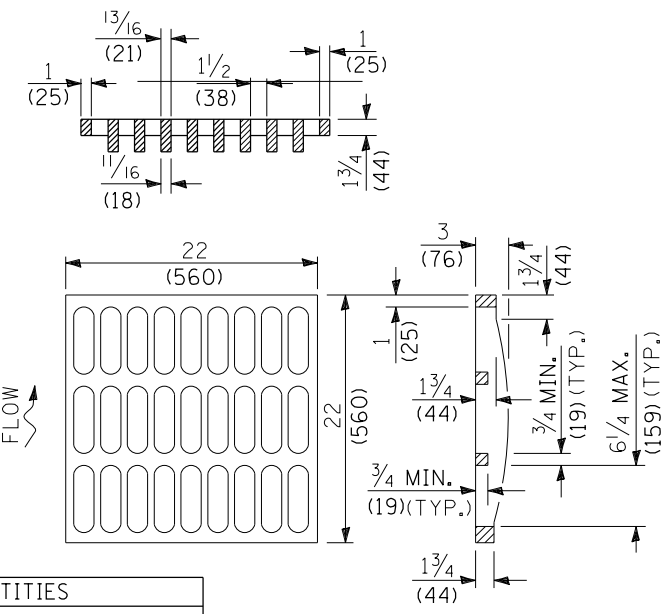
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





**QUANTITIES**

MATERIAL	SINGLE	DOUBLE
CONCRETE - (cu.yd.) m <sup>3</sup>	( )	7.8 CU YD
CAST IRON GRATE - Ea. 125 lbs. (57 kg)	1	2
PIPE DRAIN - DIA. (in.) mm	15 (400)	18 (450)



**GENERAL NOTES**

The gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 420001.

Tie bars shall be No. 6x24 (No. 19x600) at 36" (900mm) centers unless otherwise shown.

If the average grade of pavement for the distance A-D exceeds 2%, this distance shall be increased 6' (1.8m) for each 1% increase in grade.

DESIGNER NOTES:  
1. INCLUDE STATE STANDARD 420001.  
2. PAY ITEM IS CLASS SI CONCRETE (OUTLET), SPECIAL.

**QUANTITIES**

CALC. BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION

01-01-97	RENUM. A-1.07, NEW REVISION BOX, ADDED	T.P.	01-31-18	REVISED TIE BAR SIZE & SPACING	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.			
03-15-12	CHANGED MODIFIED TO SPECIAL	R.D.			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**OUTLET TYPE 1 (SPECIAL) FOR  
TYPE A GUTTER (SPECIAL)**

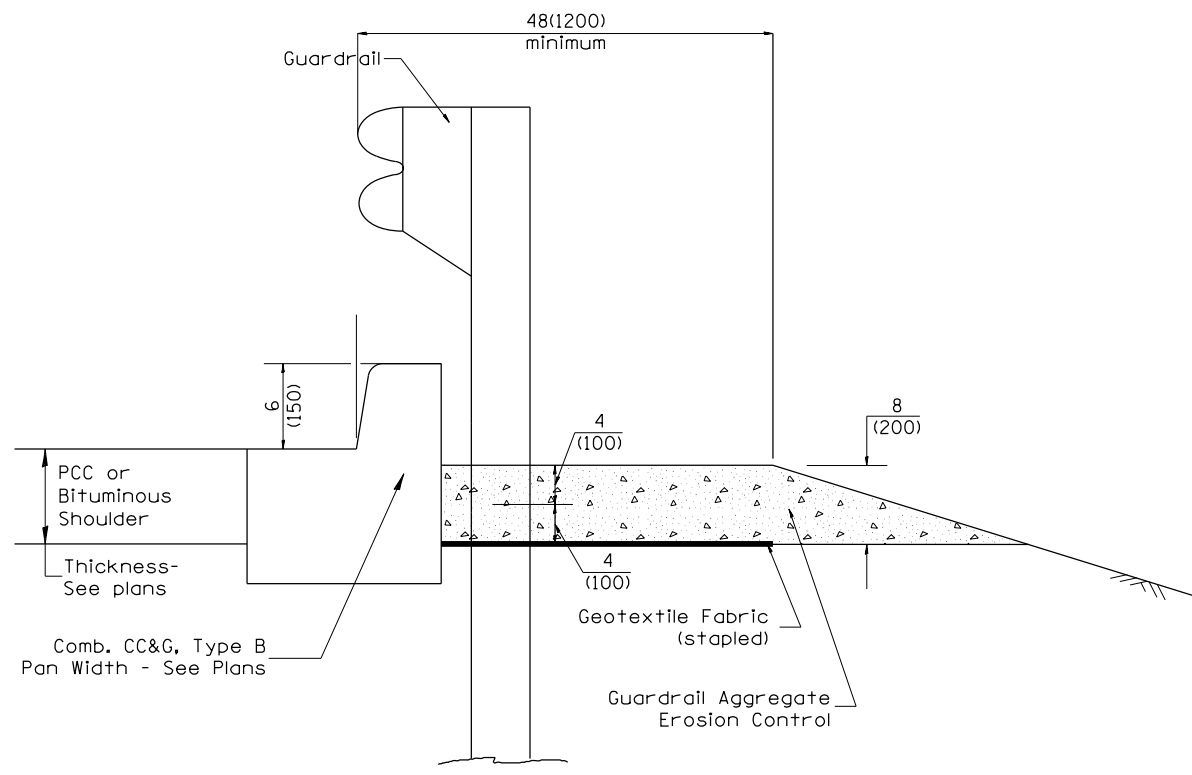
CADD STD. 606106-D4

All dimensions are in inches (millimeters) unless otherwise noted.

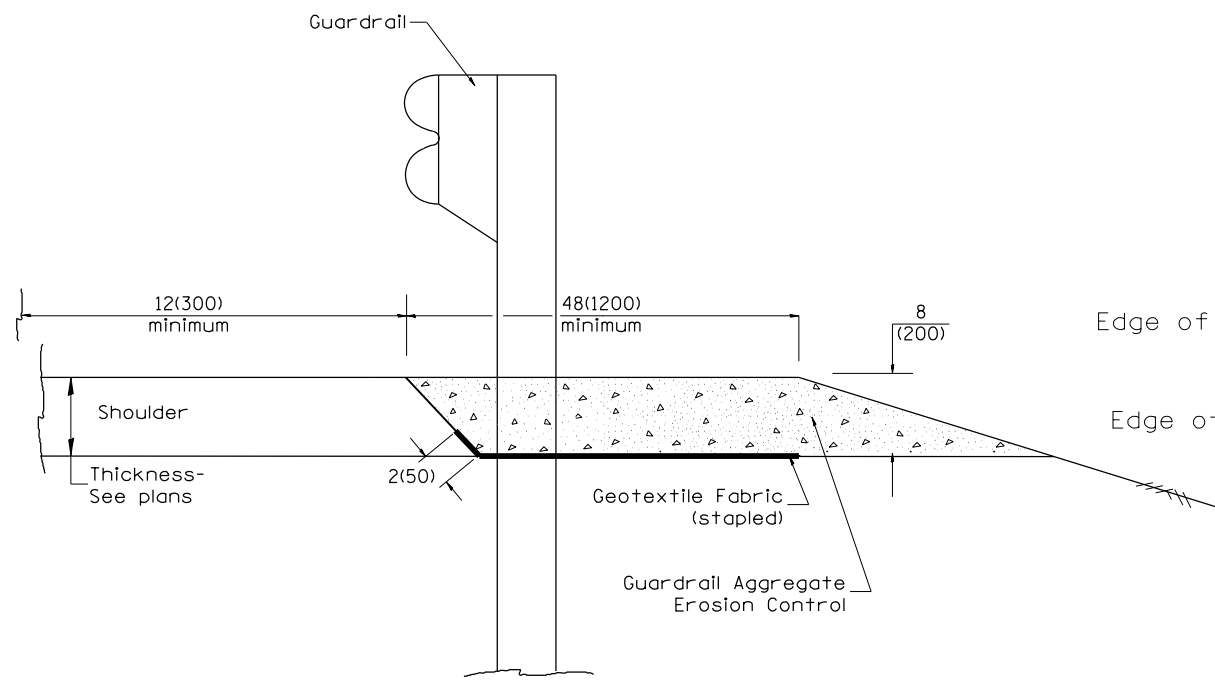
F.A.P. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	173
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DESIGNER NOTES:

1. CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION)
2. USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION).
3. INCLUDE STATE STANDARD 610001, IF APPLICABLE.
4. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEE PAGE COLLARS FOR BURIED PIPES
5. SEE PAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.
6. INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.
7. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
8. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS.



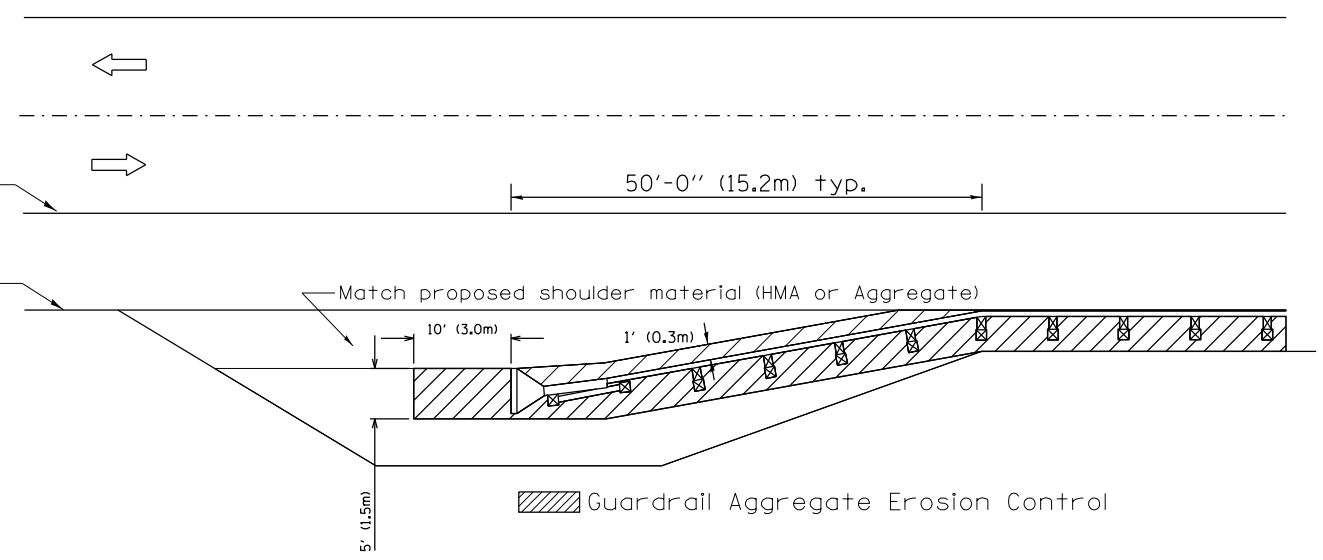
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



All dimensions are in inches (millimeters) unless otherwise noted.

03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.			
01-26-17	REVISED	R.D.			

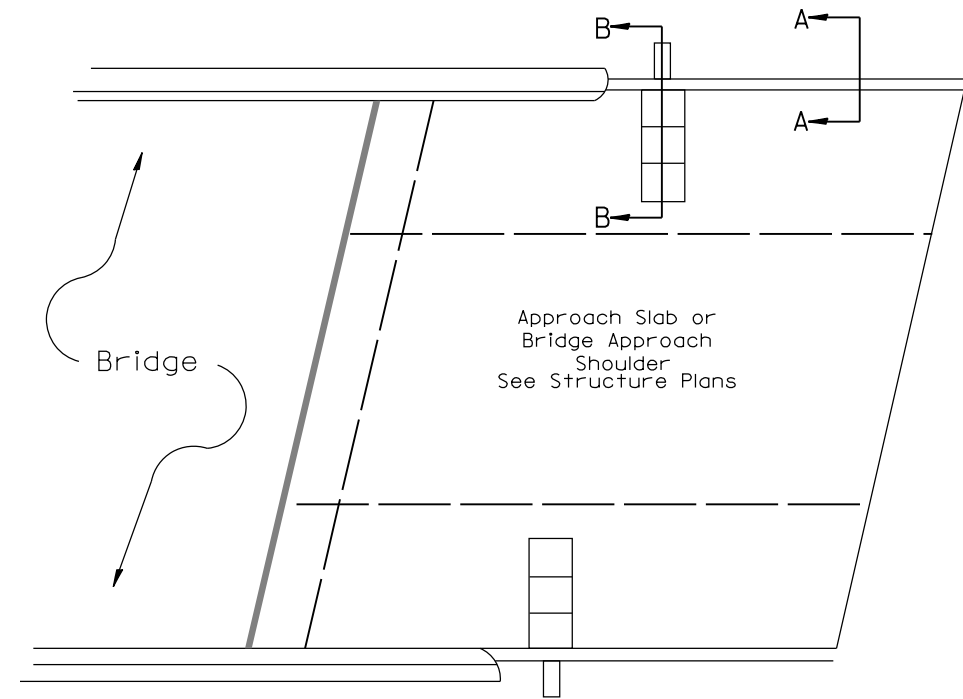
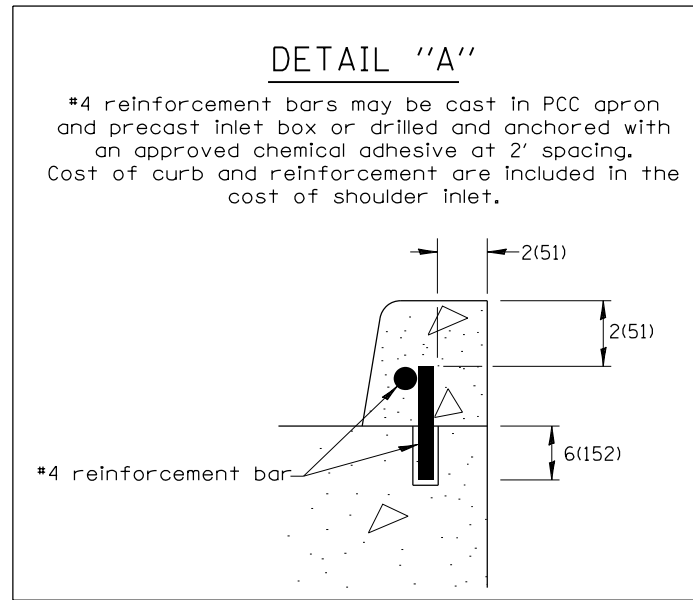
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

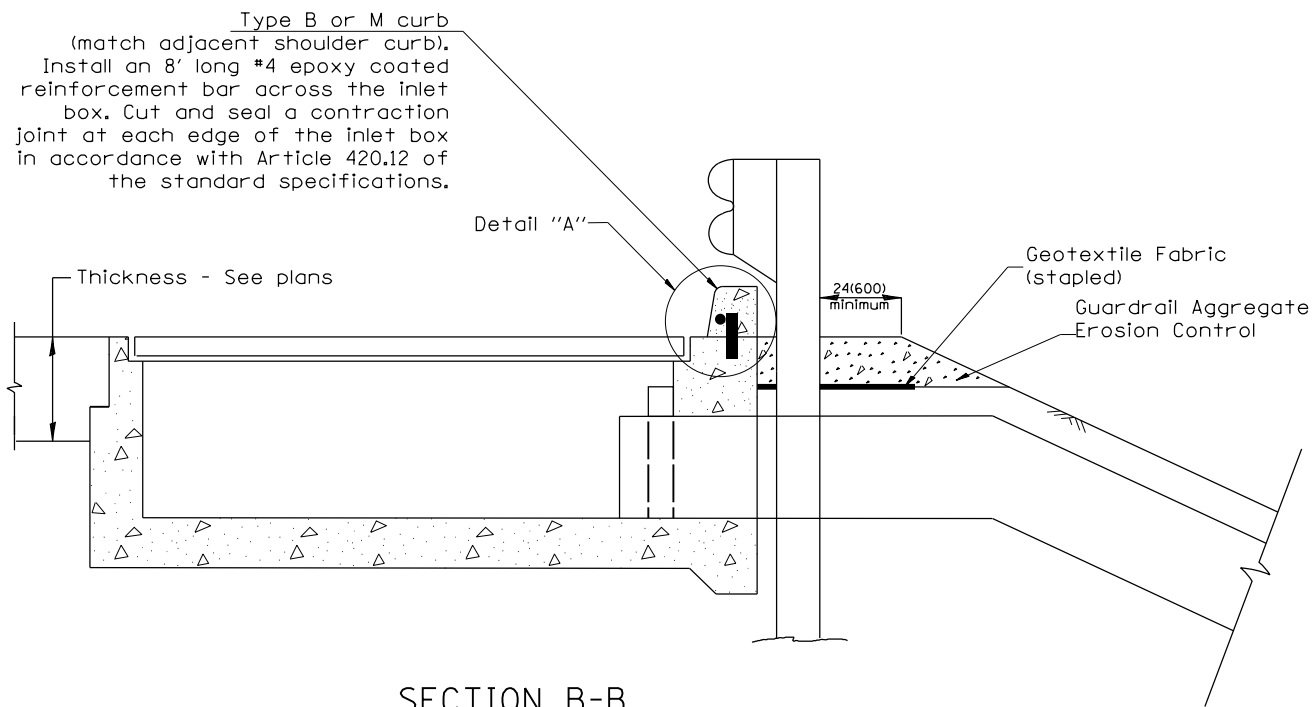
GUARDRAIL EROSION CONTROL TREATMENTS

SHT. 1 OF 2  
CADD STD. 630101-D4

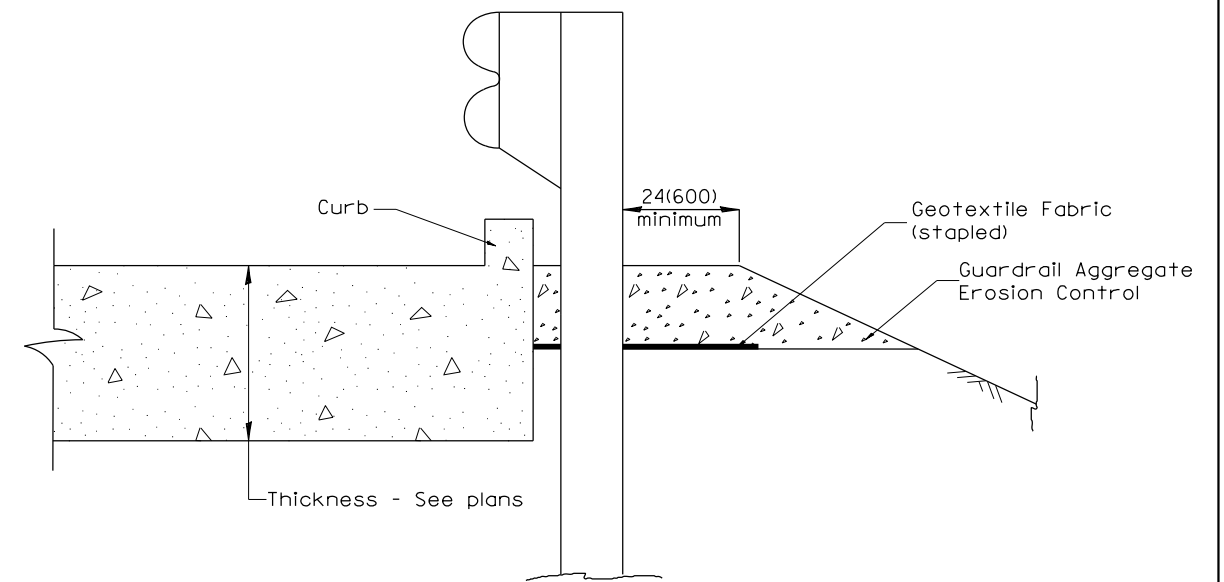
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	174
CONTRACT NO. 68636				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**PLAN VIEW**  
**APPROACH SLAB OR SHOULDER PLACEMENT**



**SECTION B-B**  
**TYPICAL SECTION AT INLETS**  
**TYPE E, F & G (HIGHWAY STANDARD 610001)**



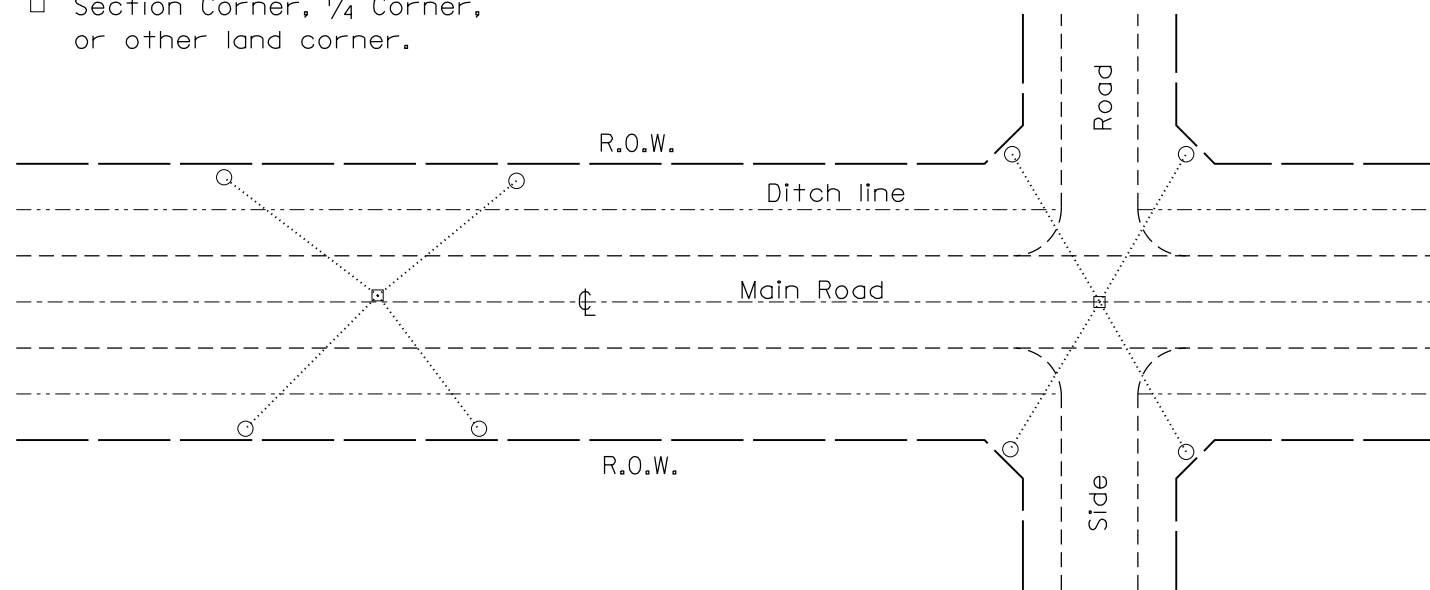
**SECTION A-A**  
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**

All dimensions are in inches (millimeters) unless otherwise noted.

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>				<b>GUARDRAIL EROSION CONTROL TREATMENTS</b>				SHT. 2 OF 2 CADD STD. 630101-D4		F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 310 101W-1,RS-2; 28W-1,RS-5 WARREN/MERCER 234 175 CONTRACT NO. 68636	
				NOT TO SCALE						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**PERMANENT SURVEY TIES**

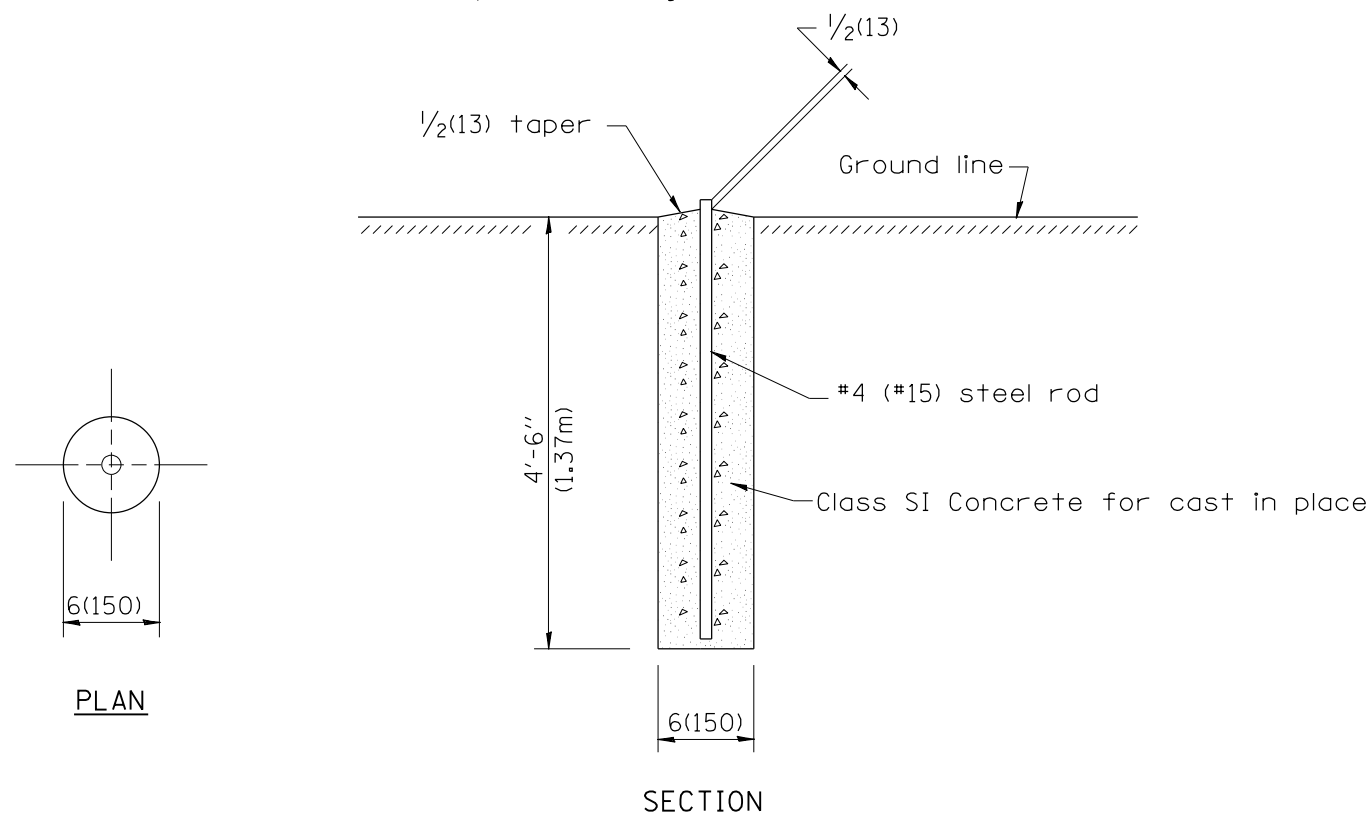
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



**TYPICAL APPLICATION**

**GENERAL NOTES**

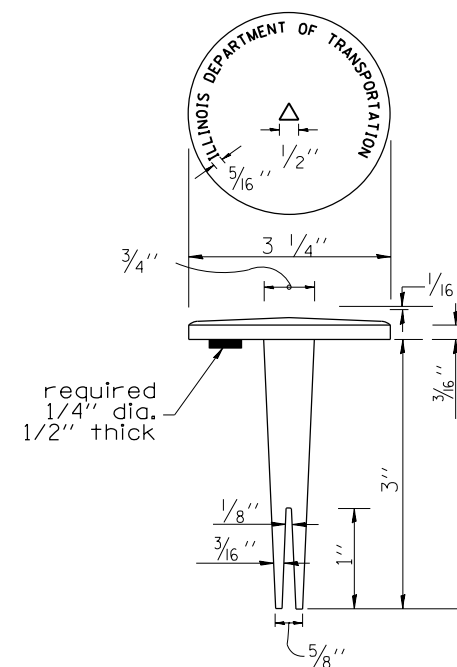
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



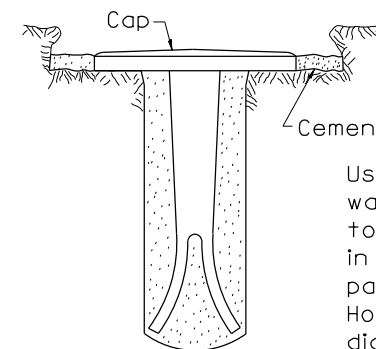
**PLAN**

**SECTION**

**PERMANENT SURVEY MARKERS**



**BRASS TABLET**

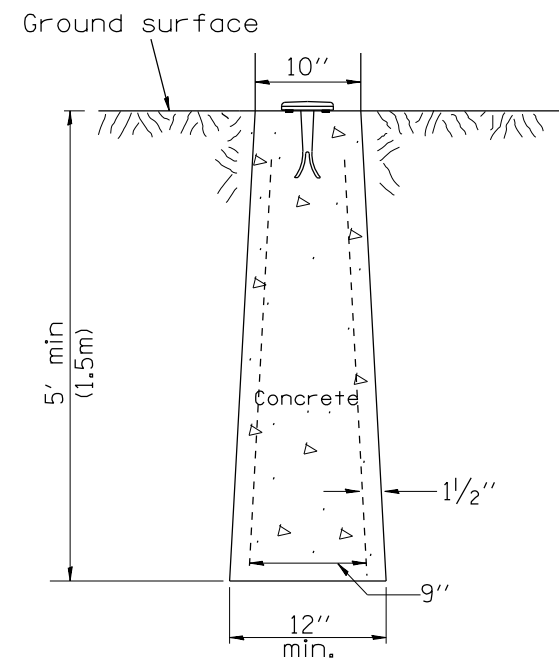


Cement or approved epoxy

Use pure cement and water or approved epoxy to seal marker tablet in rock ledge, concrete pavement or structure. Hole shall be 1 1/2" diameter.

Tablet constructed in rock ledge or concrete.

**TYPE I**



**TYPE II  
CAST-IN-PLACE MARKER**

**GENERAL NOTES**

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s located within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

All dimensions are in inches (millimeters) unless otherwise noted.

DESIGNER NOTES:  
 1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE I MARKER ON A STRUCTURE. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD  
 2. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.  
 3. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

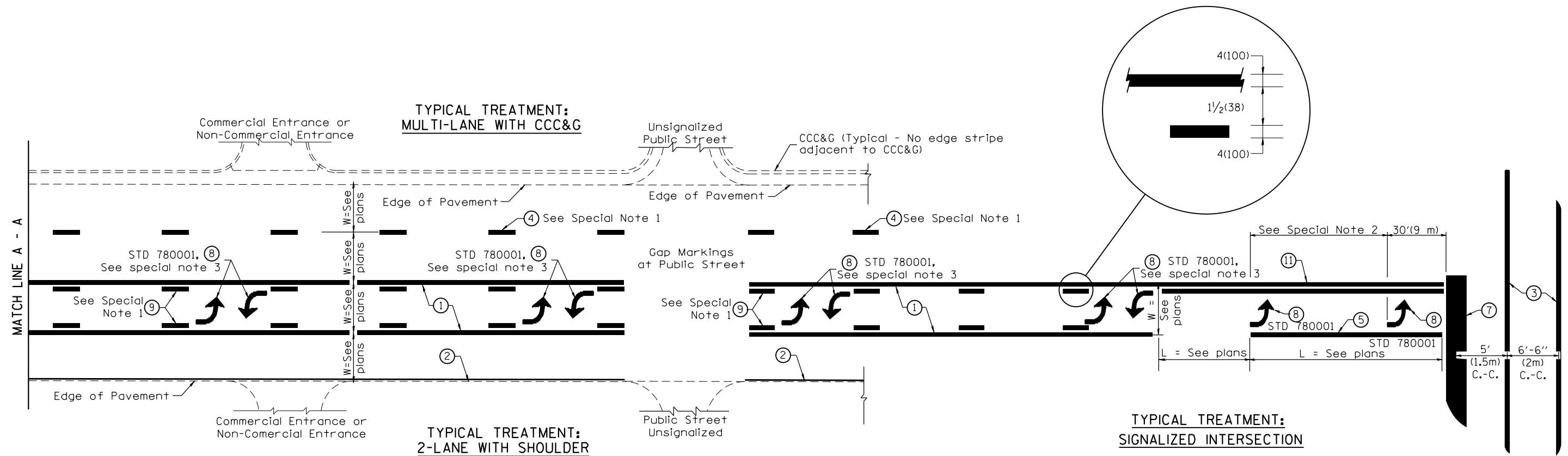
**PERMANENT SURVEY TIE &  
PERMANENT SURVEY MARKERS TY.I - TY.II**

CADD STD. 667101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	176
CONTRACT NO. 68636				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DESIGNER NOTES:  
1. Include State Standard 780001 (Typical Pavement Markings)



**FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION**

**TYPICAL PAVEMENT MARKING LEGEND**

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

- ① 4(100) Solid (Yellow)
- ② 4(100) Solid (White)
- ③ 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)  
2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
- ④ 6(150) Skip-Dash (White) (See Special Note 1)
- ⑤ 8(200) Solid (White)
- ⑥ 12(300) Diagonal (White) (Item ⑥ is shown on Std. 780001)
- ⑦ 24(600) Stop Bar (White)
- ⑧ Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- ⑨ 4(100) Skip-Dash (Yellow) (See Special Note 1)
- ⑩ 12(300) Diagonal (Yellow) (See Table A) (See Table A)
- ⑪ 4(100) Double Solid (Yellow) (See Table A)

**SPECIAL NOTES**

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversely across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
  - A. A minimum of two (2) arrows is required.
  - B. The maximum spacing between arrows is 80' (24 m).
  - C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
  - A. A minimum of two (2) arrow pairs is required.
  - B. The maximum spacing between arrow pairs is 200' (61 m).
  - C. Arrow pairs shall be evenly spaced if three (3) or more are required.
  - D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

**GENERAL NOTES**

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
  - Through Arrow= 14.8 sq. ft.
  - Large Left or Right Arrow= 21.9 sq. ft.
  - 2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
  - Wrong Way Arrow= 29.5 sq. ft.
  - Railroad Crossing Symbol= 69.8 sq. ft.
 (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

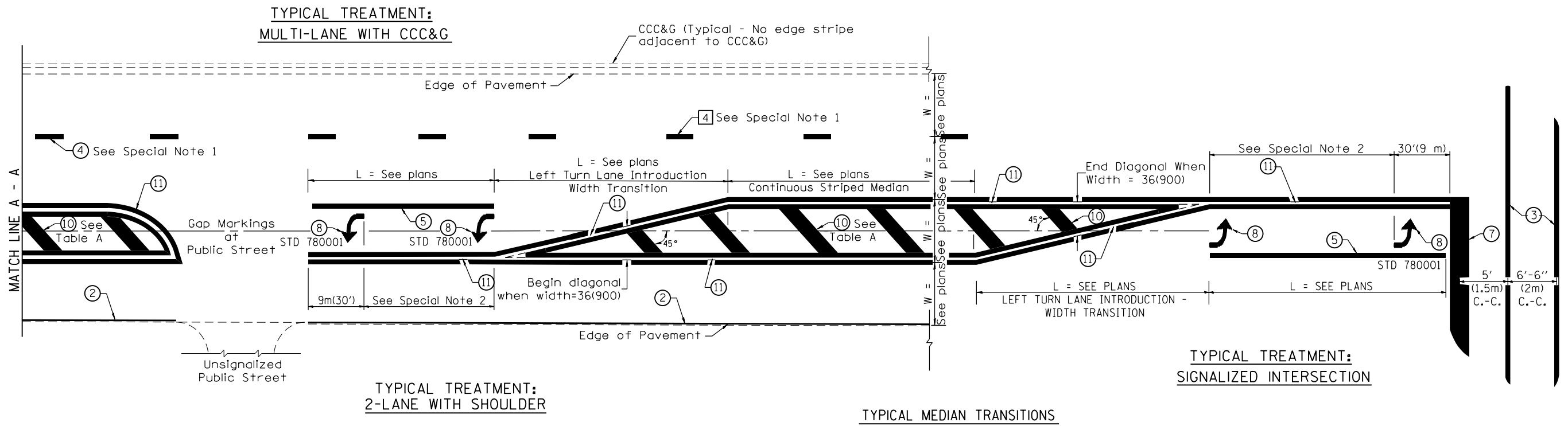
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

NOT TO SCALE

**TYPICAL PAVEMENT MARKINGS**

SHT. 1 OF 2  
CADD STD. 780001-D4

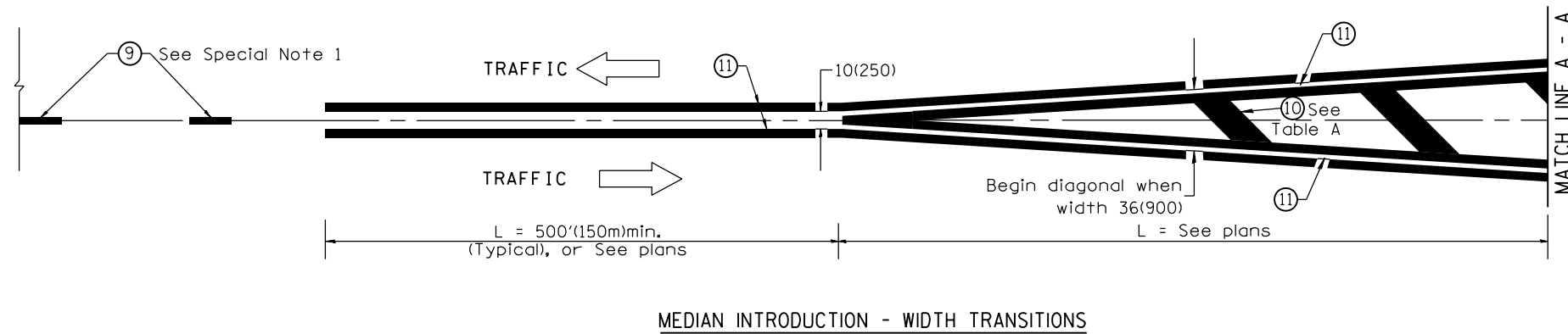
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310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	178
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 68636	



**FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE**

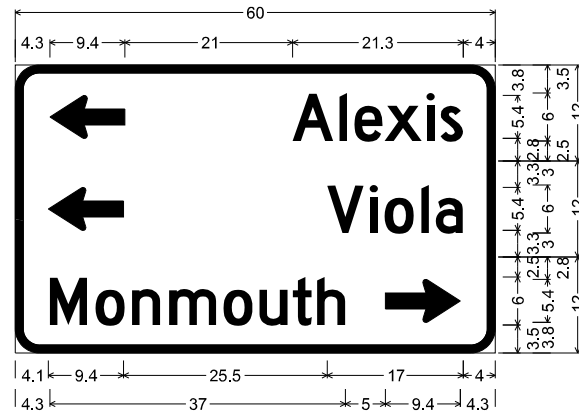
**TABLE A**  
RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



All dimensions are in inches (millimeters) unless otherwise noted.

787 + 67.74



3.0" Radius, 1.0" Border, White on, Green;  
Standard Arrow Custom 9.4" X 5.4" 180';  
"Alexis", D 2K 95% spacing;

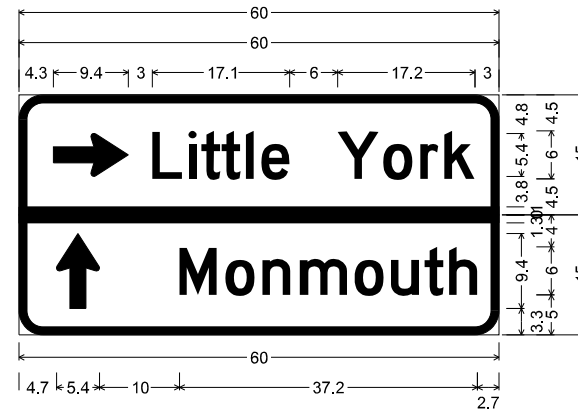
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Standard Arrow Custom 9.4" X 5.4" 180';  
"Viola", D 2K 95% spacing;

3.0" Radius, 1.0" Border, White on, Green;  
"Monmouth", D 2K 95% spacing;  
Standard Arrow Custom 9.4" X 5.4" 0';

Table of widths and spaces

4.3	⇔	9.4
21.0	A	5.1 0.7 1.0 0.9 3.5 0.3 4.7 0.5 1.0 0.8 2.8 4.0
4.1	⇔	9.4 25.5 V 4.6 0.7 1.0 0.9 3.7 0.9 1.0 0.9 3.4 4.0
4.3	M	4.7 1.0 3.7 0.9 n 3.6 1.0 m 6.0 0.8 3.7 0.9 u 3.5 0.6 t 2.4 0.6 h 3.6
5.0	⇔	9.4 4.3

1288 + 04.59



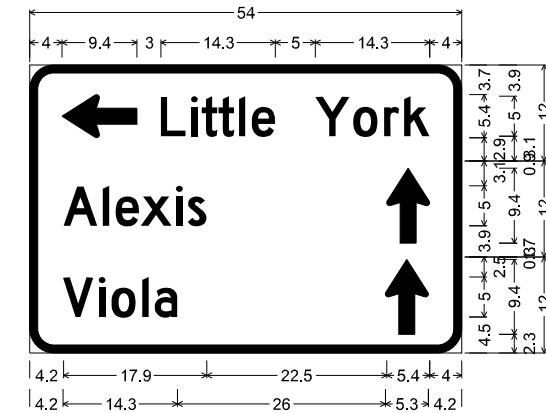
3.0" Radius, 1.0" Border, White on, Green;  
Standard Arrow Custom 9.4" X 5.4" 0';  
"Little York", D 2K;

3.0" Radius, 1.0" Border, White on, Green;  
Standard Arrow Custom 9.4" X 5.4" 90';  
"Monmouth", D 2K;

Table of widths and spaces

⇔	L	i	t	t	l	e
4.3 9.4 3.0 3.7 0.8 0.9 0.7 2.4 0.1 2.4 0.7 0.9 1.0 3.5						
	Y	o	r	k		
6.0 5.2 0.5 3.7 1.0 2.2 0.8 3.8 3.0						
0.0	⇔	60.0	0.0			
0.0	⇔	60.0	0.0			
4.7	⇕	5.4				
10.0	M	4.6 1.1 3.7 0.9 n 3.6 1.1 m 6.0 0.9 3.6 0.9 u 3.6 0.6 t 2.4 0.7 h 3.5 2.7				

1297 + 83.68



3.0" Radius, 1.0" Border, White on, Green;  
Standard Arrow Custom 9.4" X 5.4" 180';  
"Little York", D 2K;

3.0" Radius, 1.0" Border, White on, Green;  
Standard Arrow Custom 9.4" X 5.4" 90';  
"Alexis", D 2K;

3.0" Radius, 1.0" Border, White on, Green;  
"Viola", D 2K;

Table of widths and spaces

4.0	⇔	9.4
3.0	L	3.1 0.6 0.8 0.6 2.0 0.1 2.0 0.5 0.8 0.8 3.0
5.0	Y	4.3 0.4 3.1 0.8 r 1.9 0.6 3.2 4.0
4.2	A	4.3 0.6 0.8 0.8 3.0 0.2 3.9 0.5 1.0 0.7 2.3
	⇕	5.4 4.0
4.2	V	3.8 0.6 0.8 0.8 3.1 0.8 1.0 0.7 a 2.9 26.0 5.3 4.2

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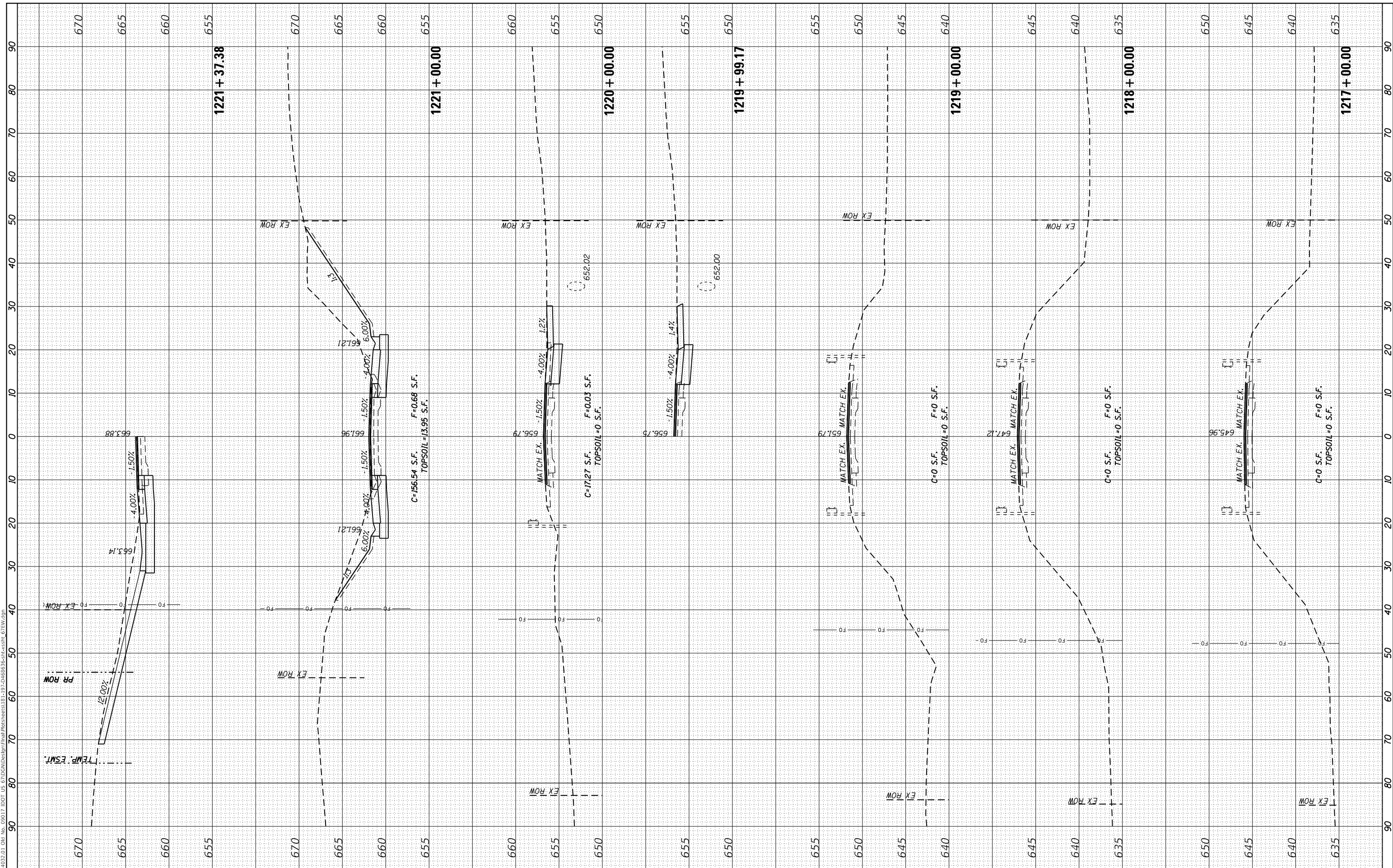
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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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 Civil Engineering Design

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAP 310**  
**CROSS SECTIONS**

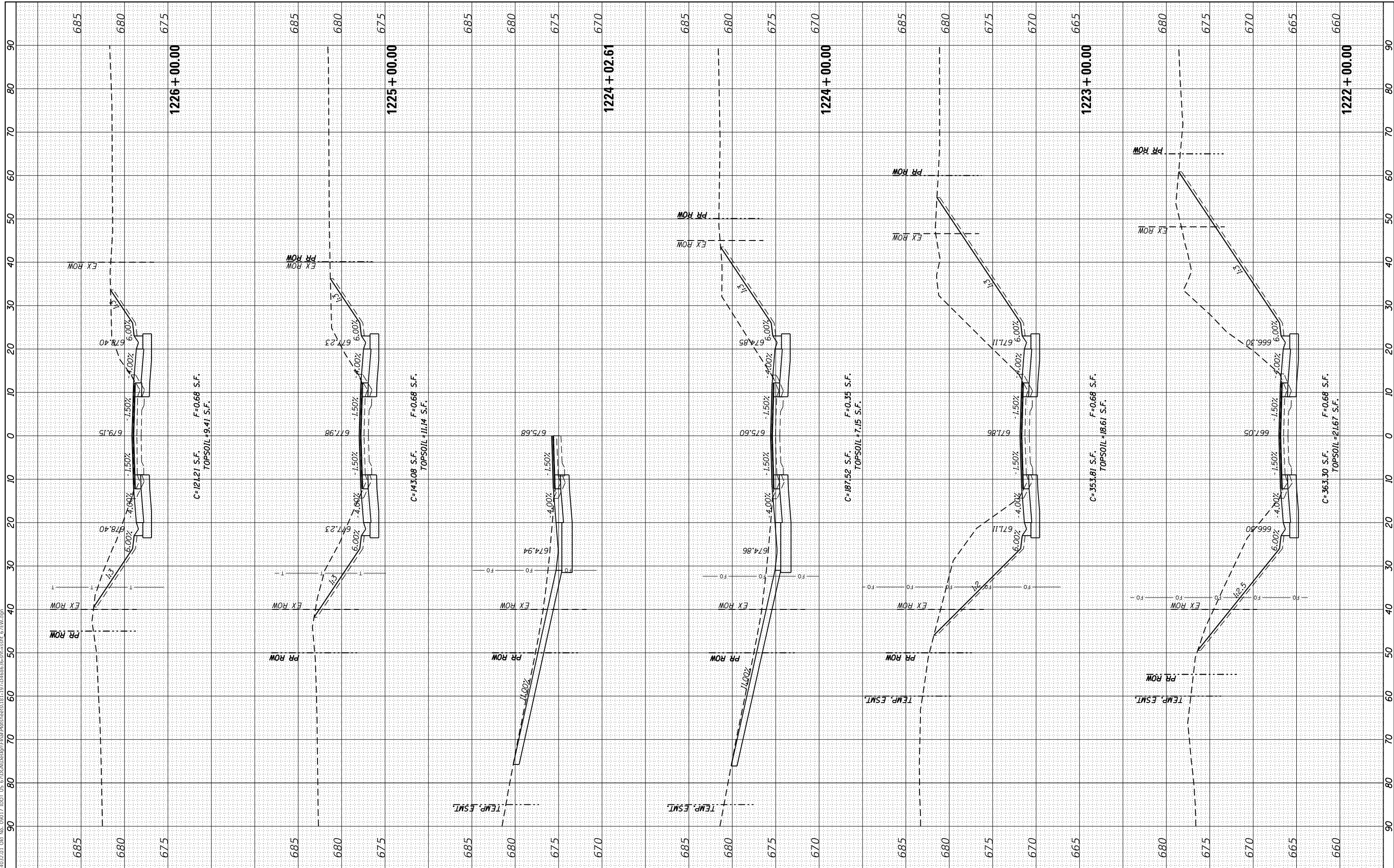
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F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 181
CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	

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NOTE BOOK	PLOTTED	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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 Civil Engineering Design

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

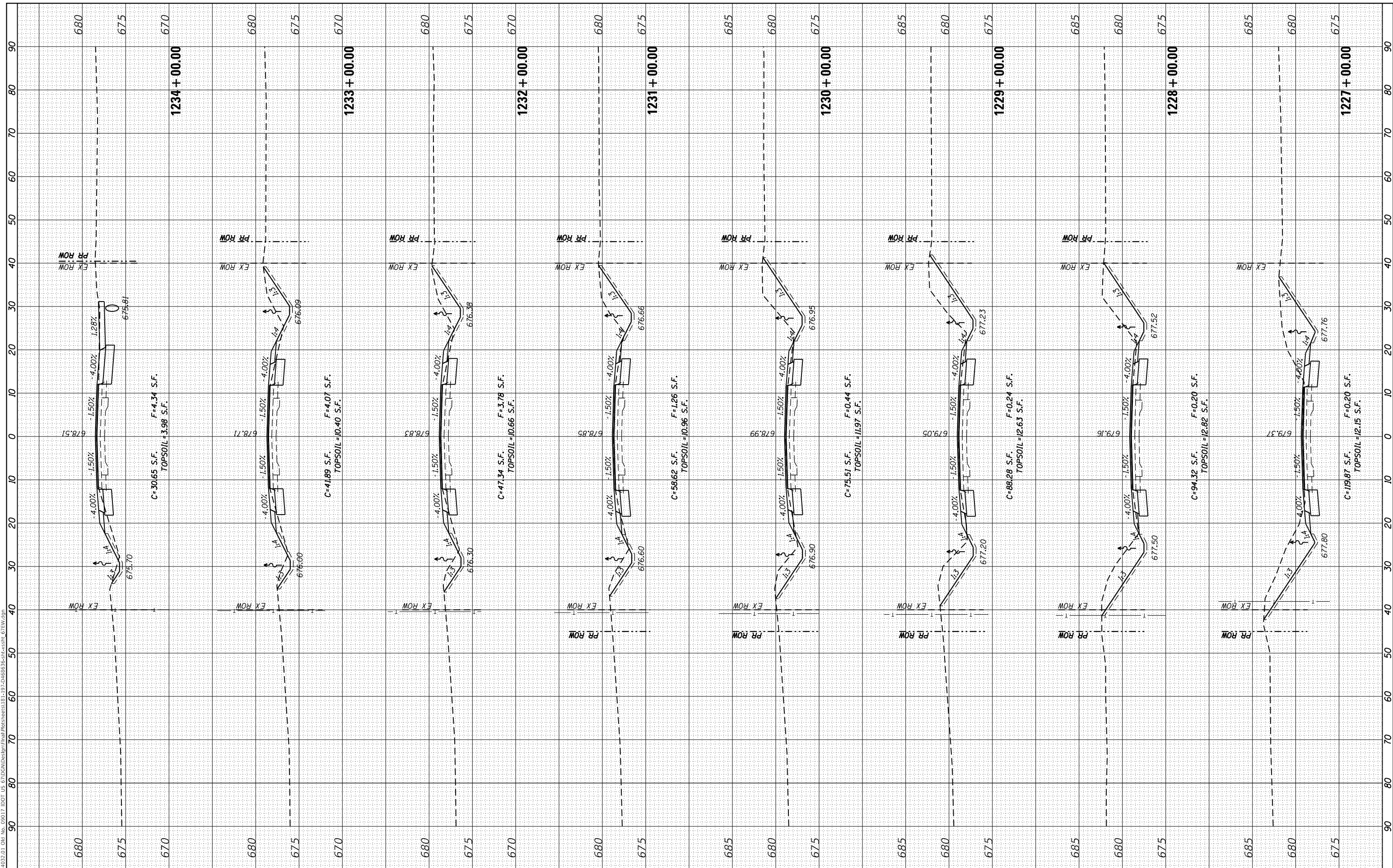
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	182
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAP 310**  
**CROSS SECTIONS**

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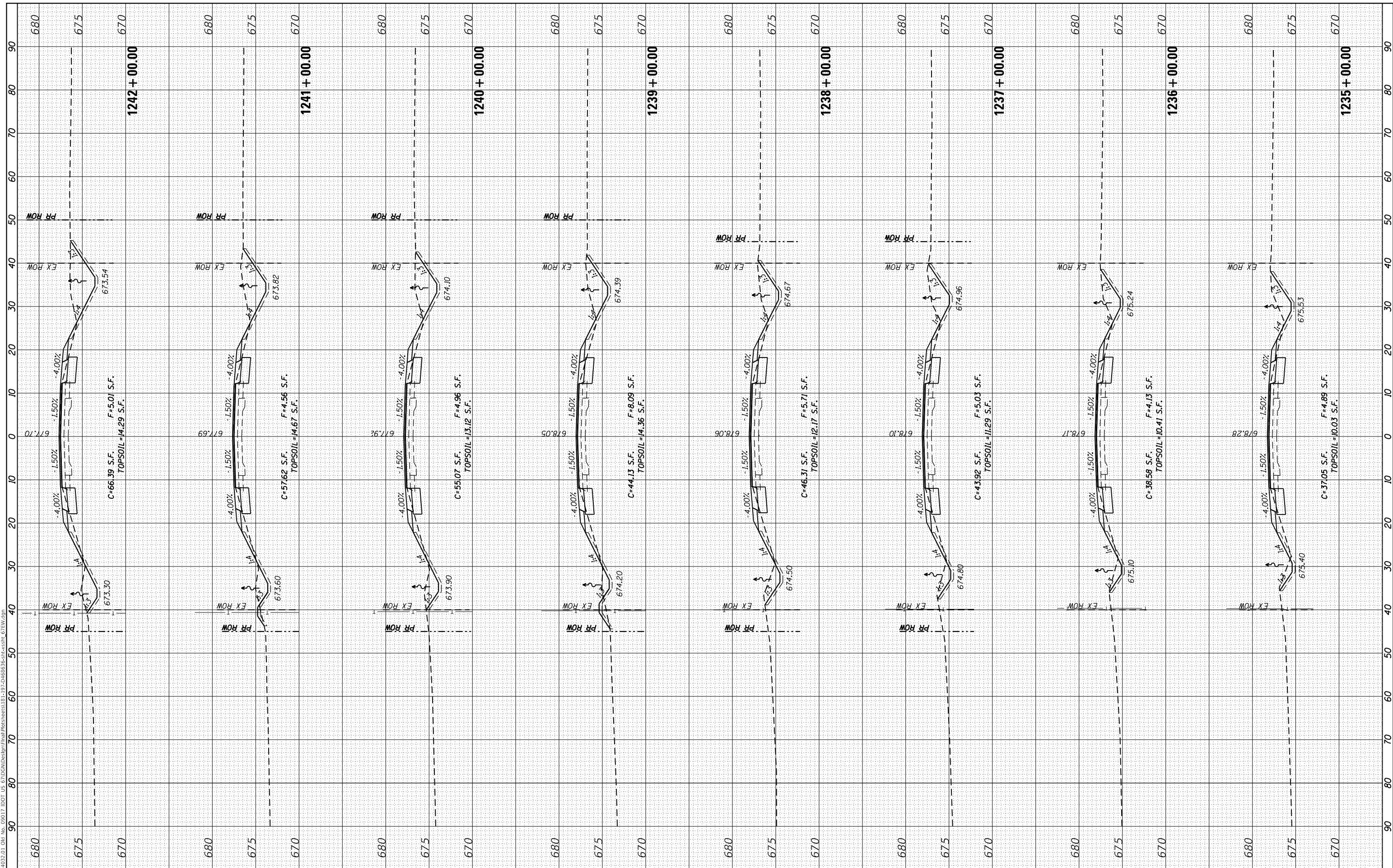
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CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	



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

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

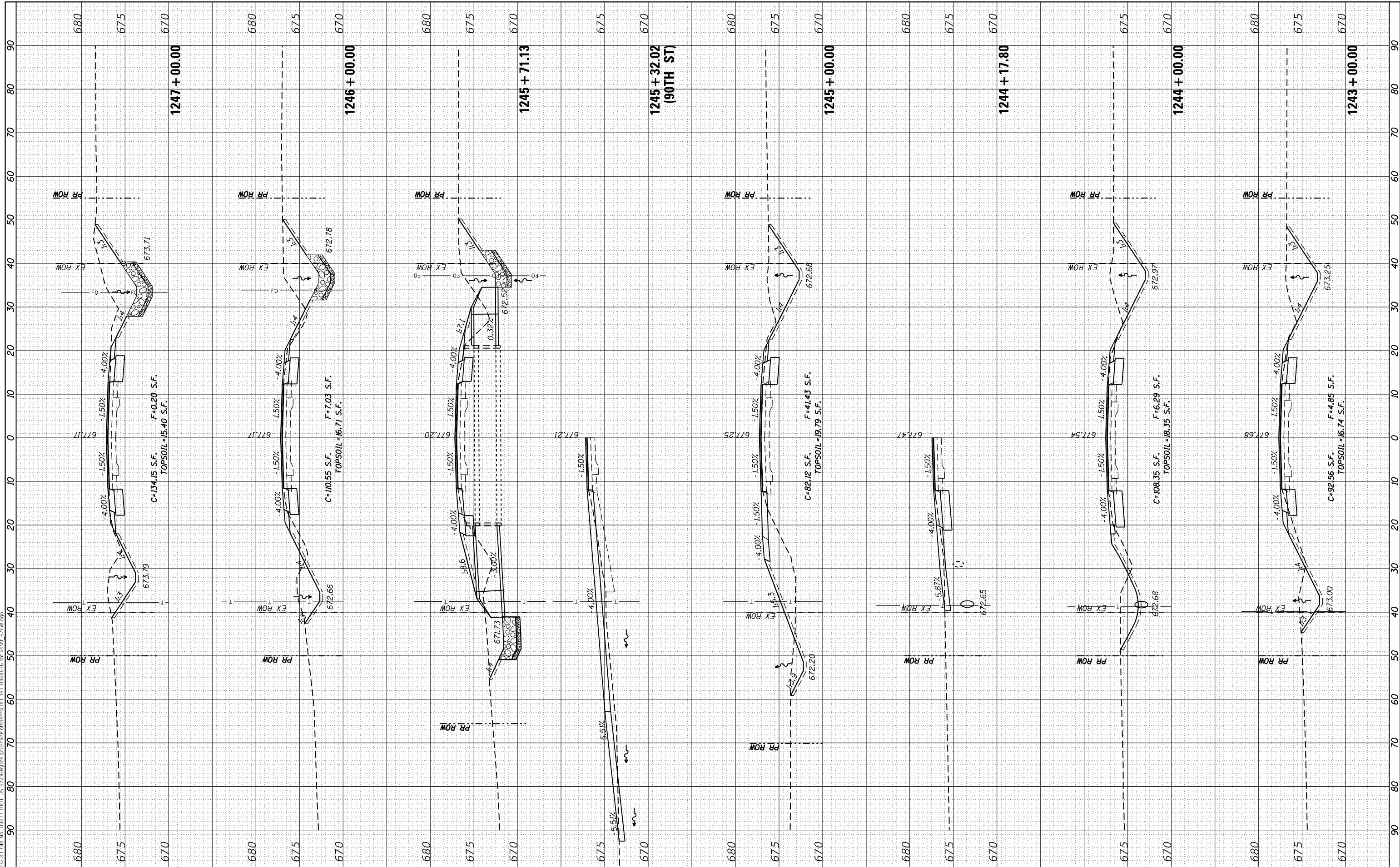
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STA. 1235+00.00 TO STA. 1241+00.00	

F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 184
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68636	

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 DRAWING: 1244+00.00 TO 1247+00.00



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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

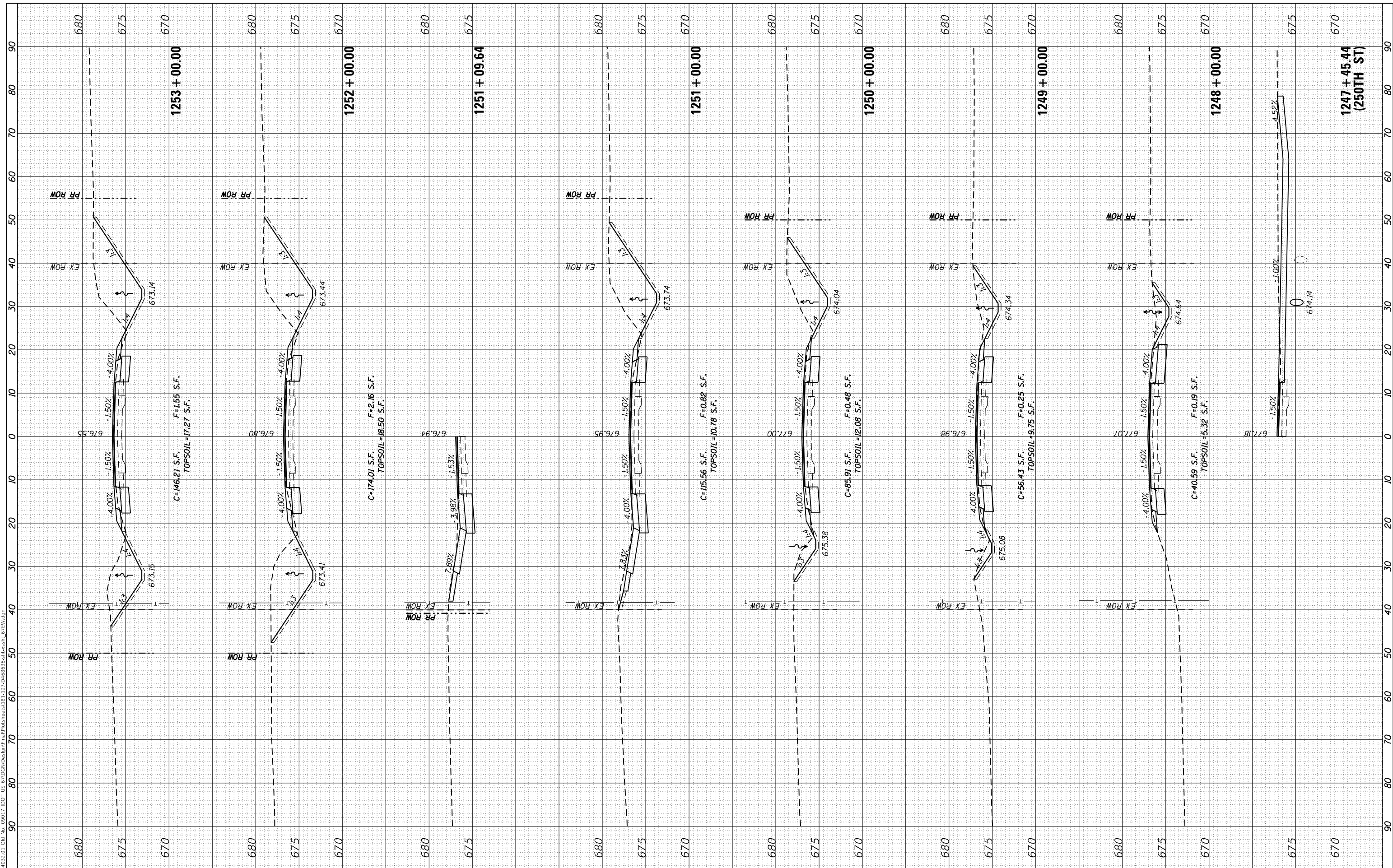
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CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

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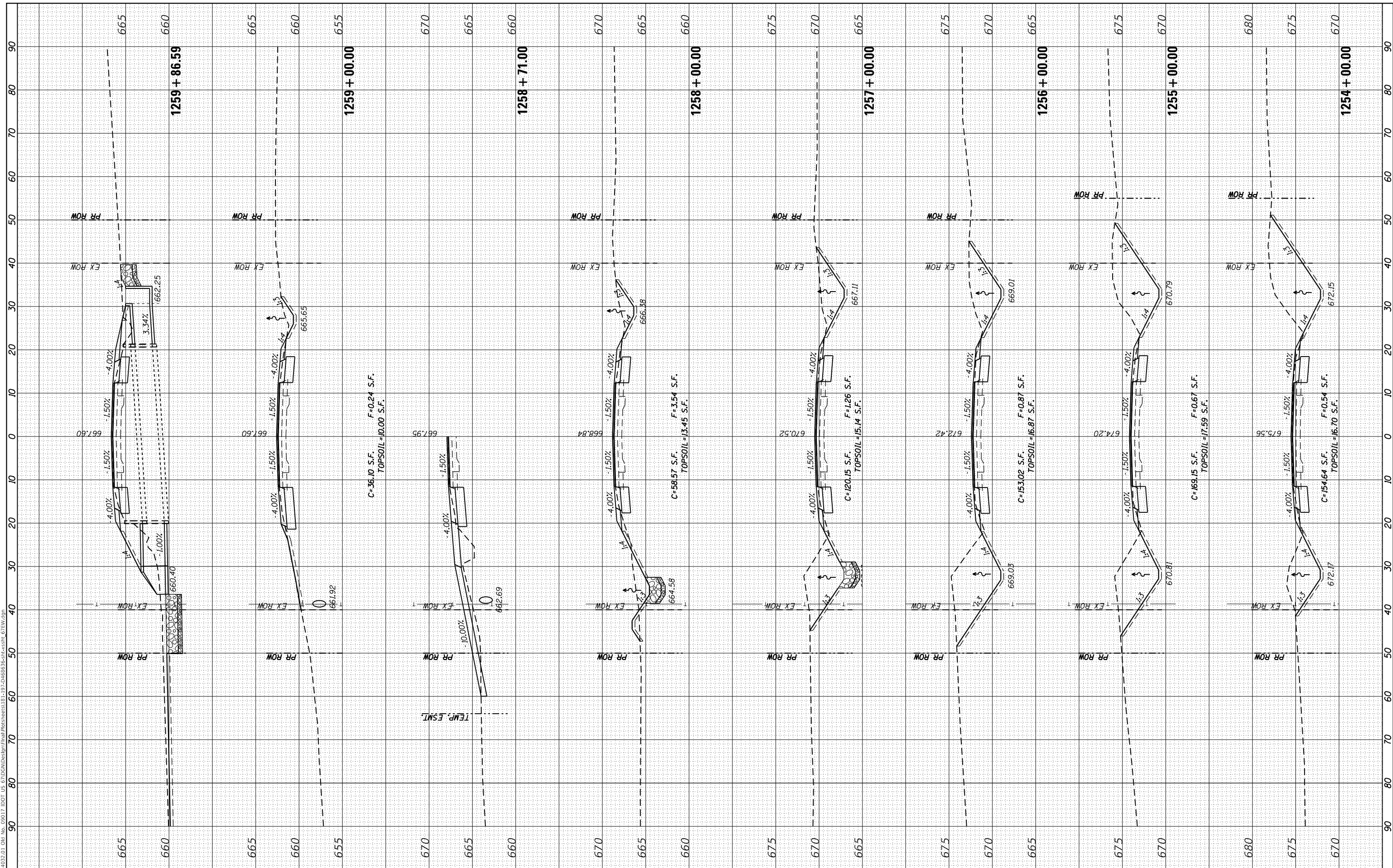
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310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	186
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



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

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 Civil Engineering Design

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

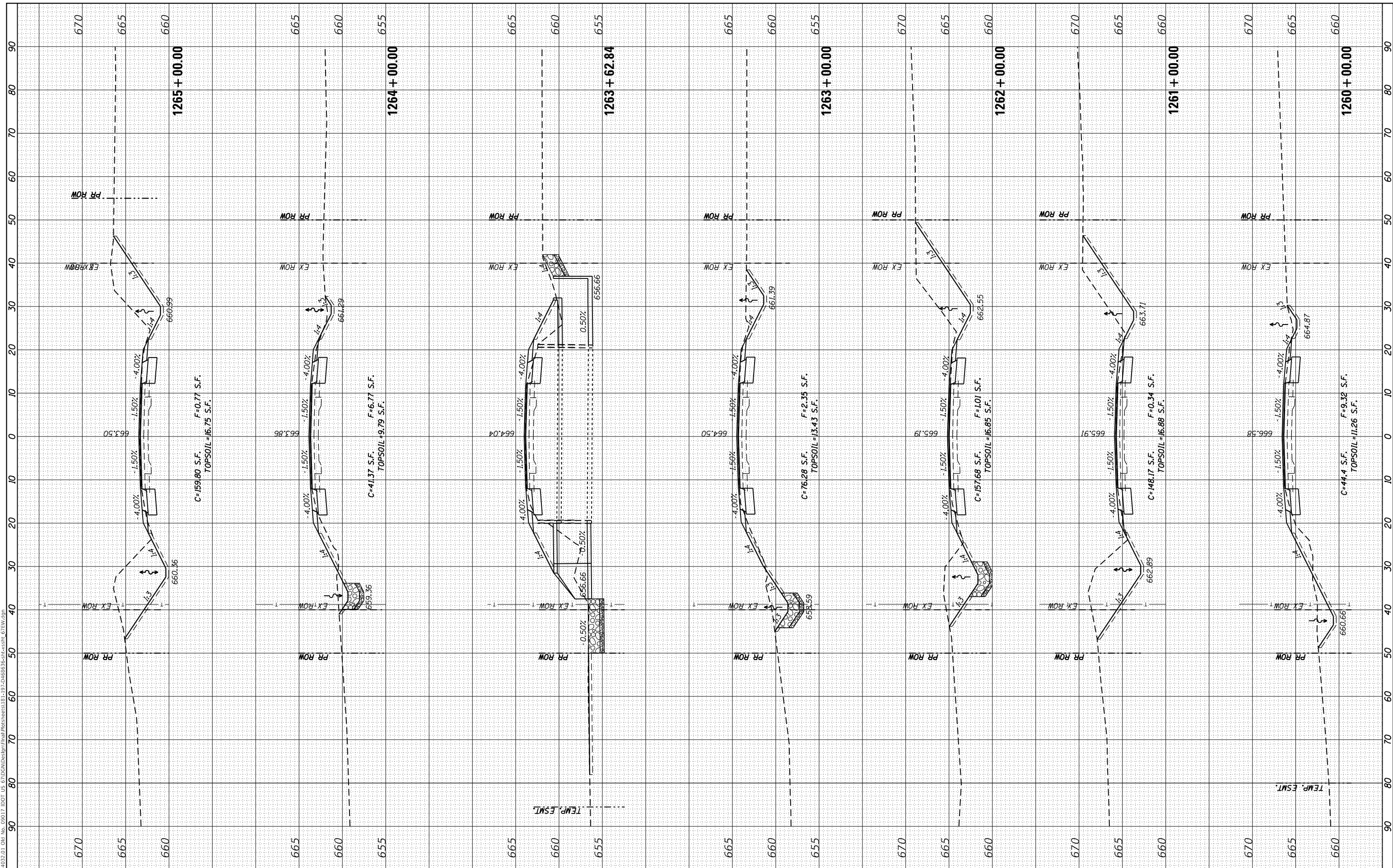
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CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAP 310**  
**CROSS SECTIONS**

SCALE: 5' V : 10' H SHEET 8 OF 54 SHEETS STA. 1260+00.00 TO STA. 1265+00.00

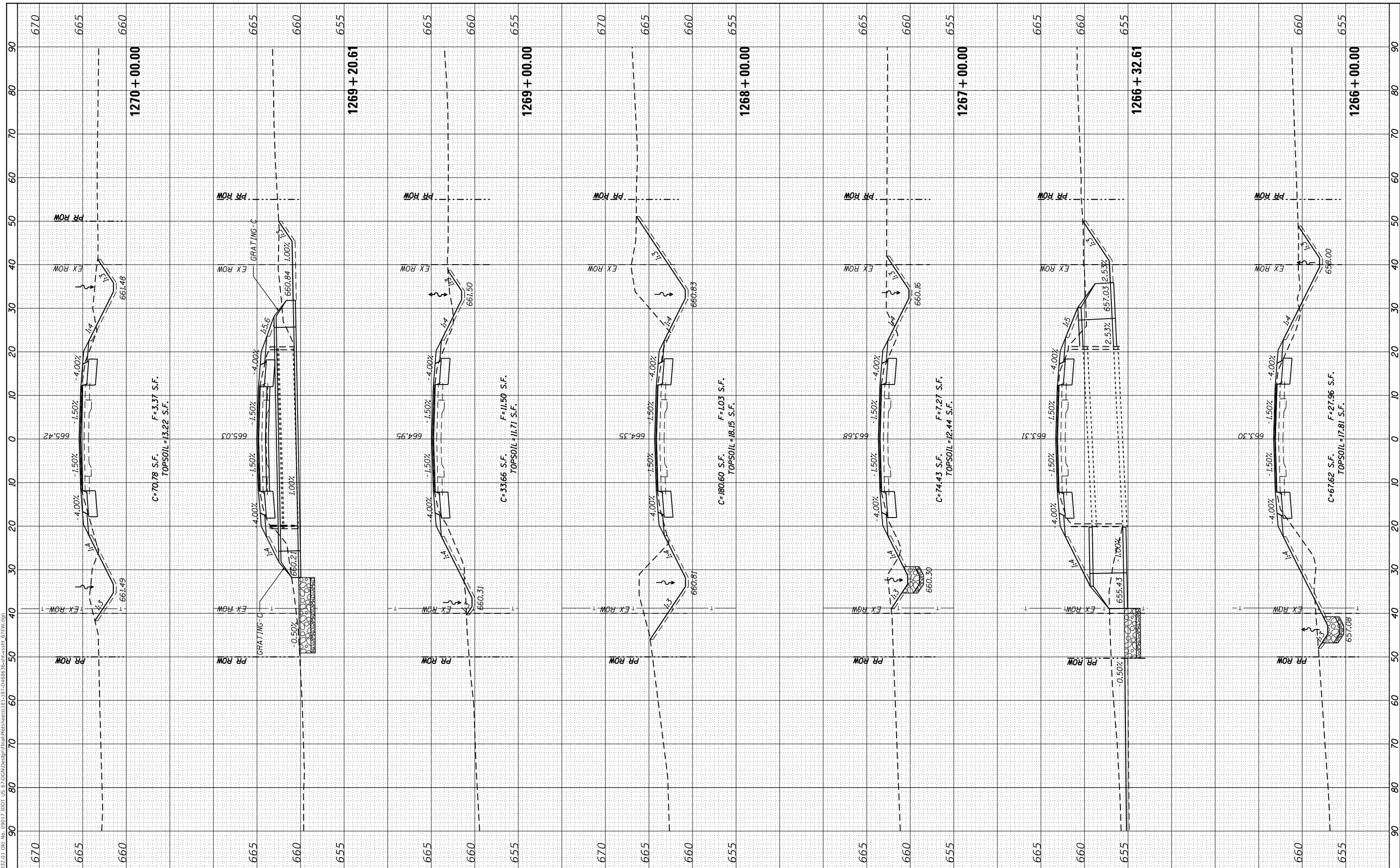
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CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE AREAS CHECKED		
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 Civil Engineering Design

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

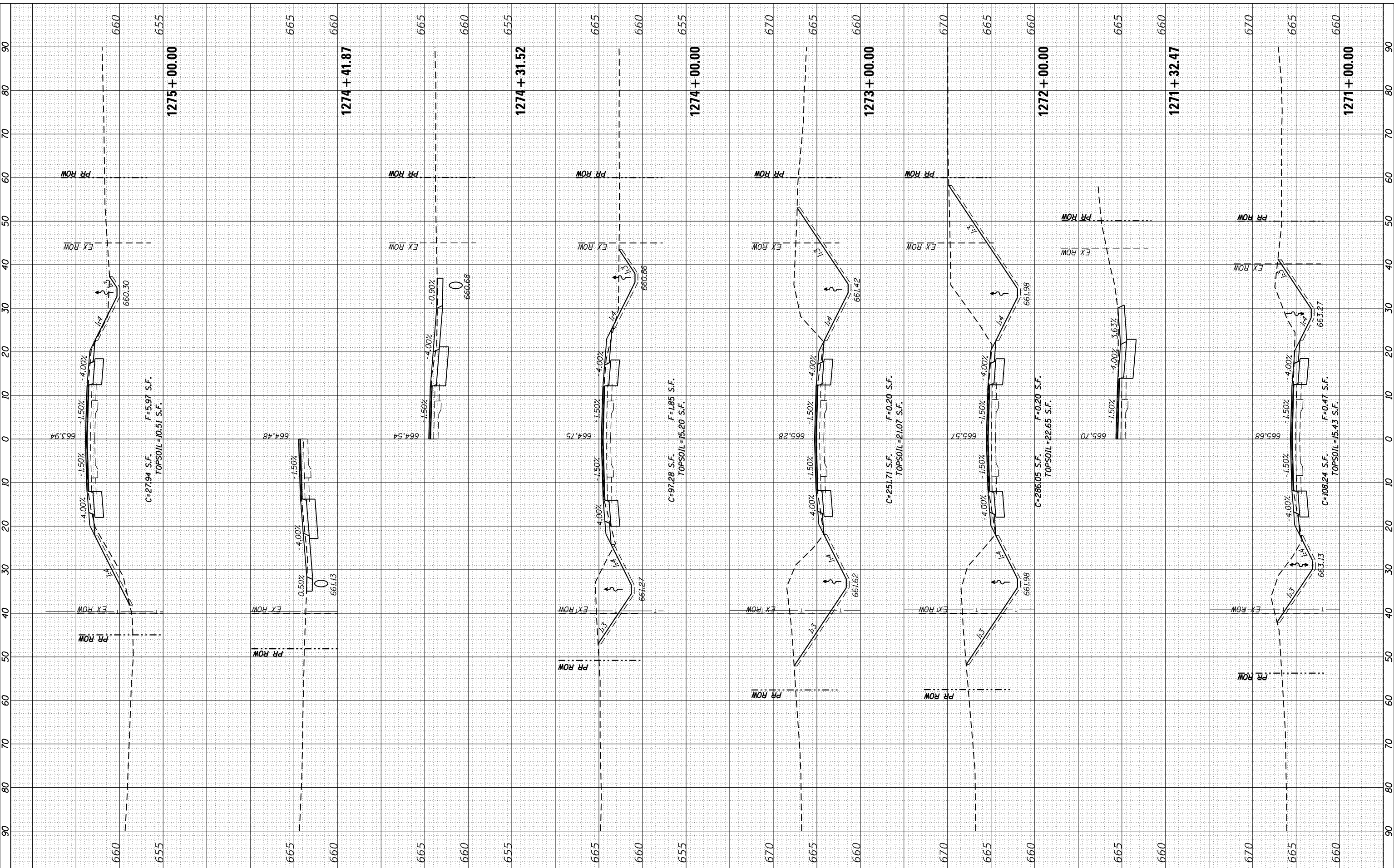
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CONTRACT NO. 68636				ILLINOIS FED. AID PROJECT

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**EFK Moen**  
 Civil Engineering Design

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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISIONS
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

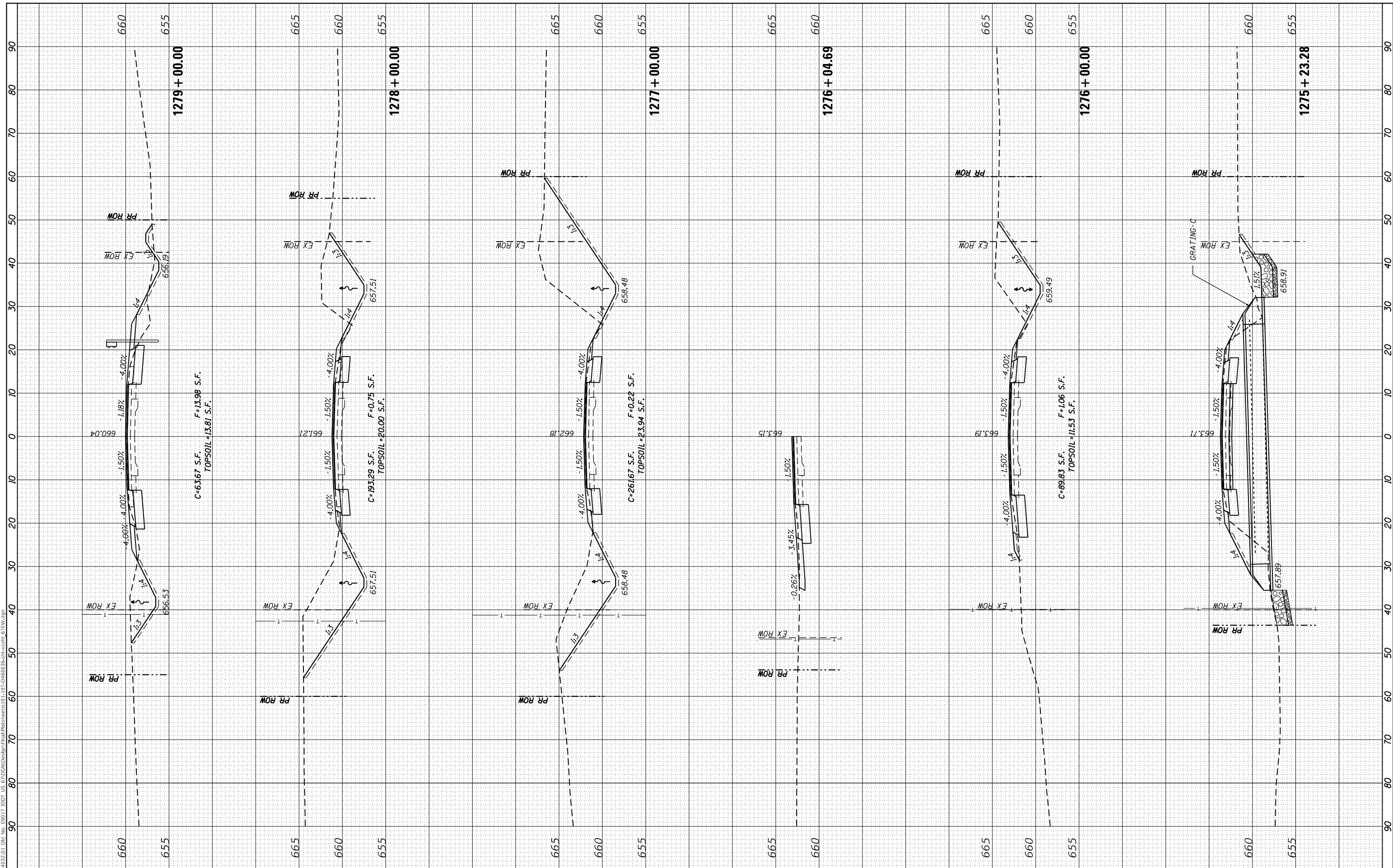
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CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	

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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FAP 310**  
**CROSS SECTIONS**  
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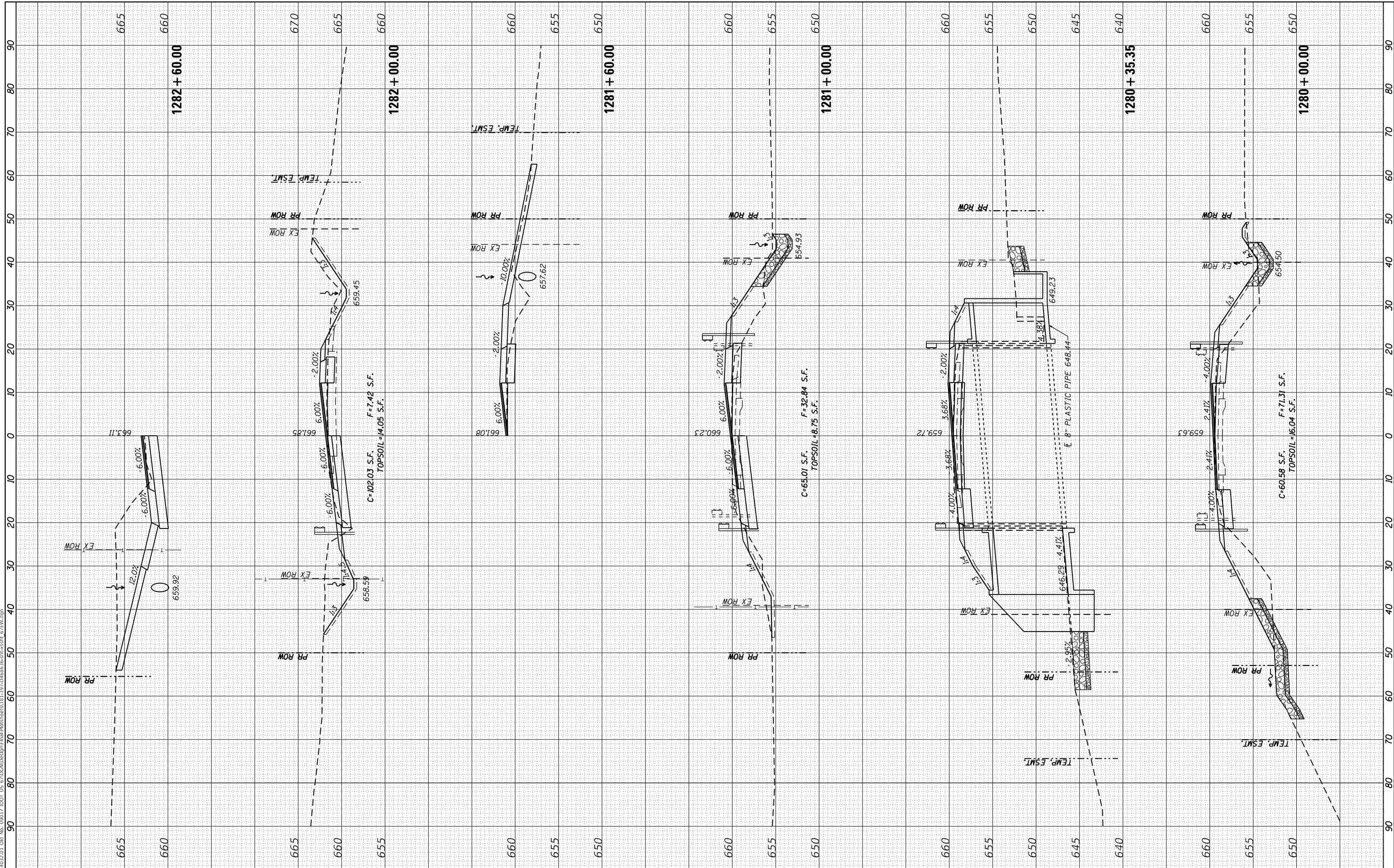
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CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

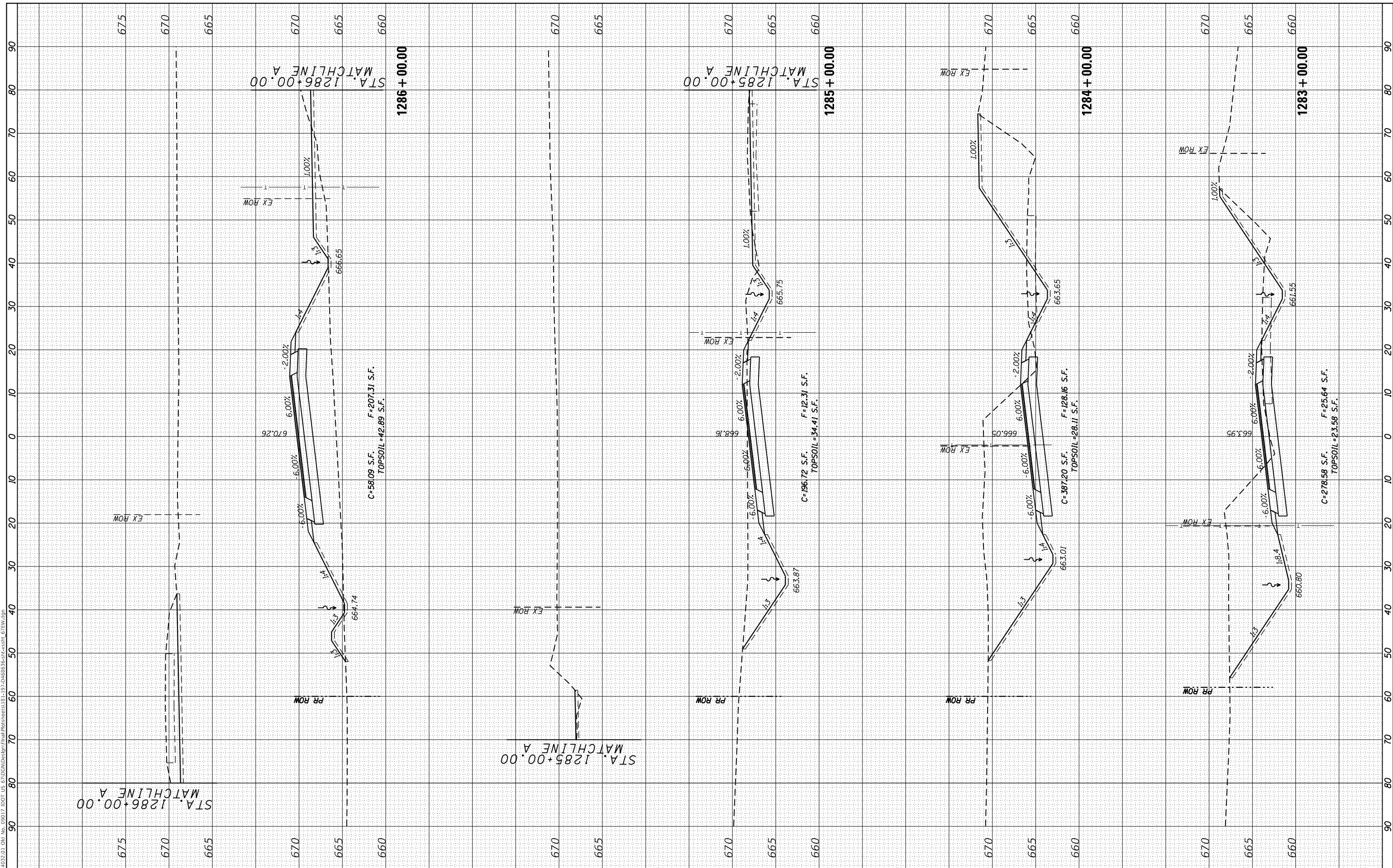
SCALE: 5'V : 10'H SHEET 12 OF 54 SHEETS STA. 1280+00.00 TO STA. 1282+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	192
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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

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

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 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISIONS
	DRAWN - JRD	REVISIONS
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISIONS
PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

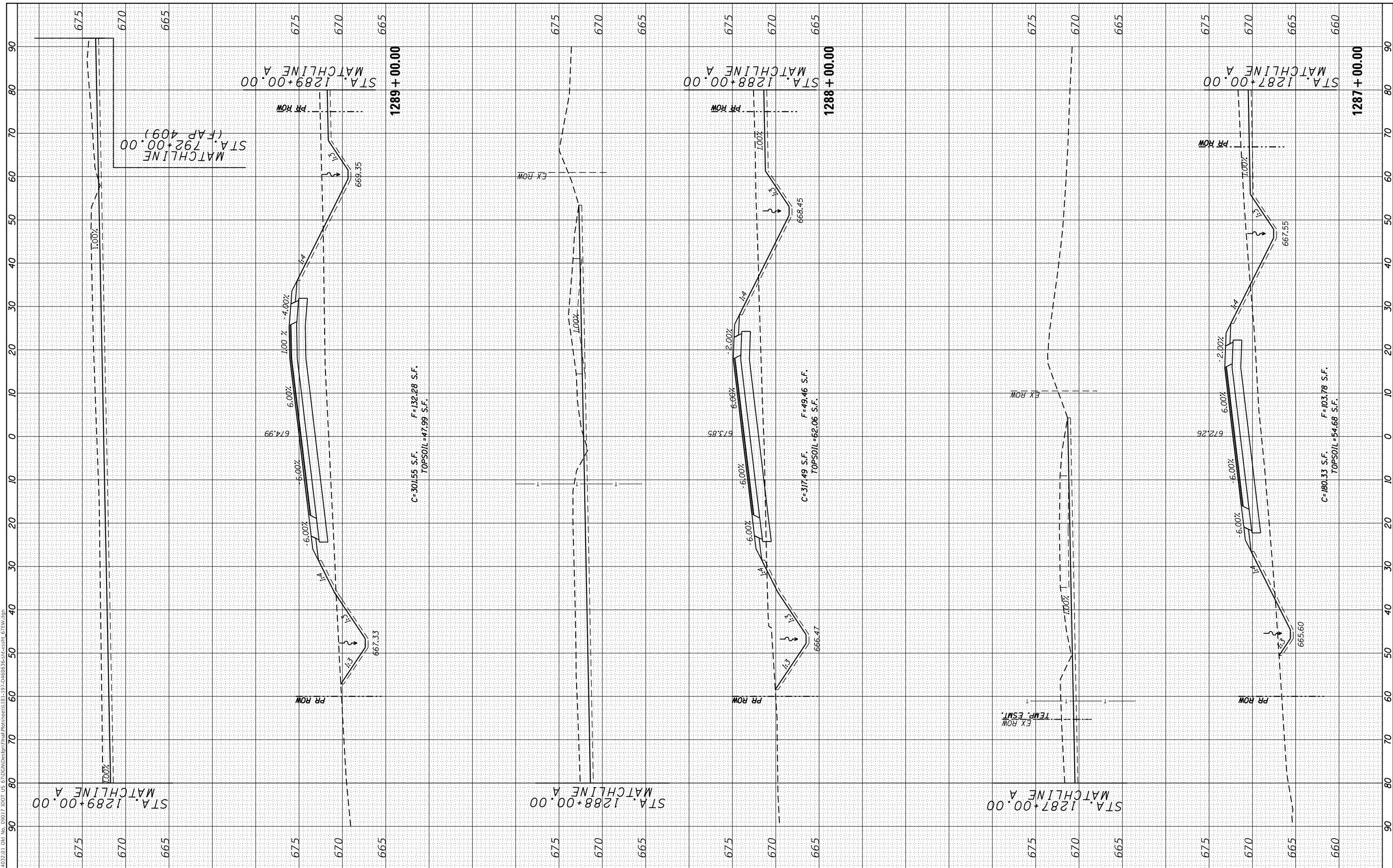
SCALE: 5'V : 10'H SHEET 13 OF 54 SHEETS STA. 1283+00.00 TO STA. 1286+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	101W-1,RS-2; 28W-1,RS-5	WARREN/MERCER	234	193
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
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 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISIONS
PLOT SCALE = 20.0000' / in.	DRAWN - JRD	REVISIONS
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISIONS
	DATE - 12/9/2020	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

SCALE: 5'V : 10'H SHEET 14 OF 54 SHEETS STA. 1287+00.00 TO STA. 1289+00.00

F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 194
ILLINOIS FED. AID PROJECT			CONTRACT NO. 68636	



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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
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**EFK Moen**  
Civil Engineering Design

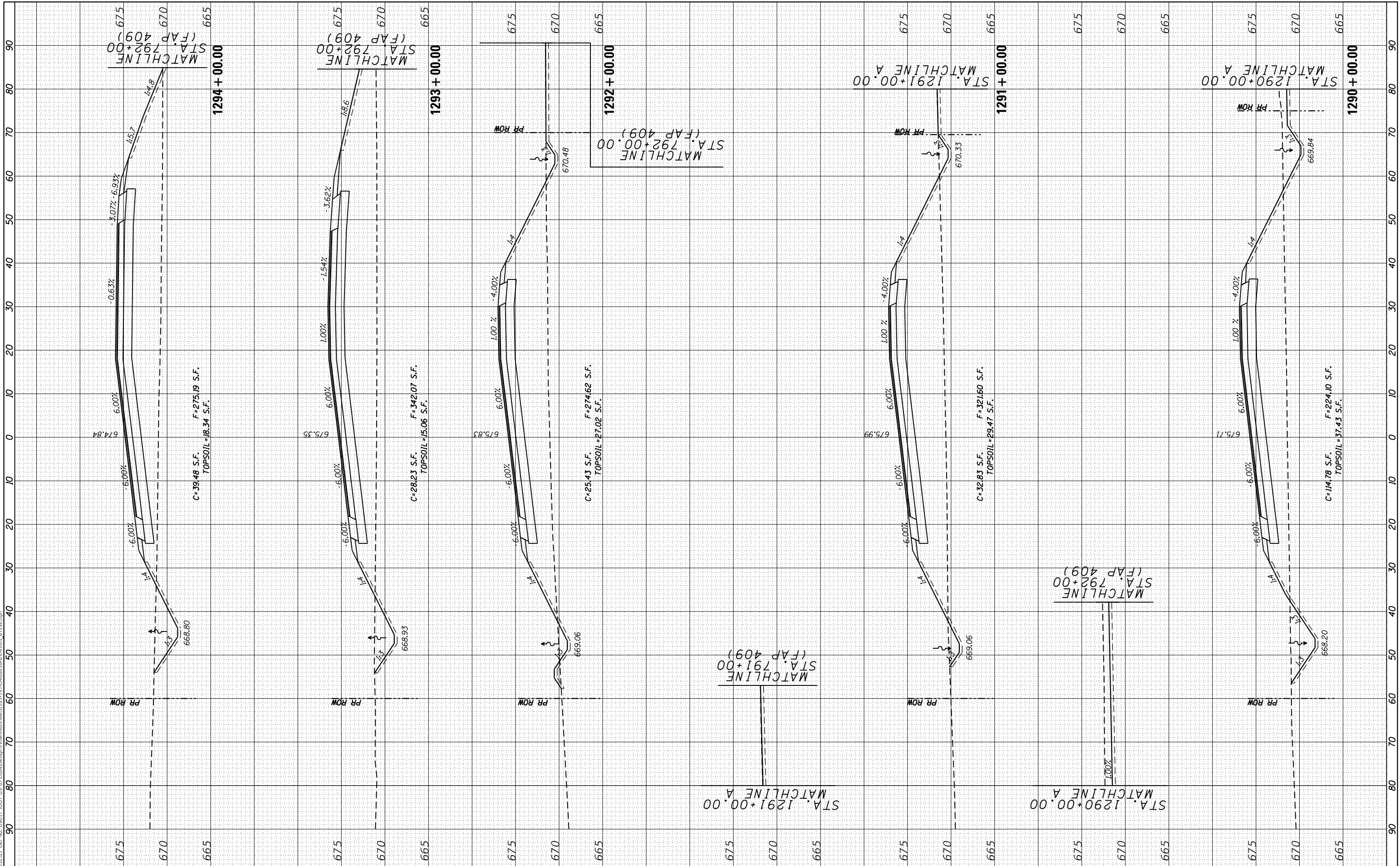
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PLOT DATE = 12/9/2020	CHECKED - SLD	REVISED -
	DATE - 12/9/2020	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FAP 310  
CROSS SECTIONS**

SCALE: 5'V : 10'H SHEET 15 OF 54 SHEETS STA. 1290+00.00 TO STA. 1294+00.00

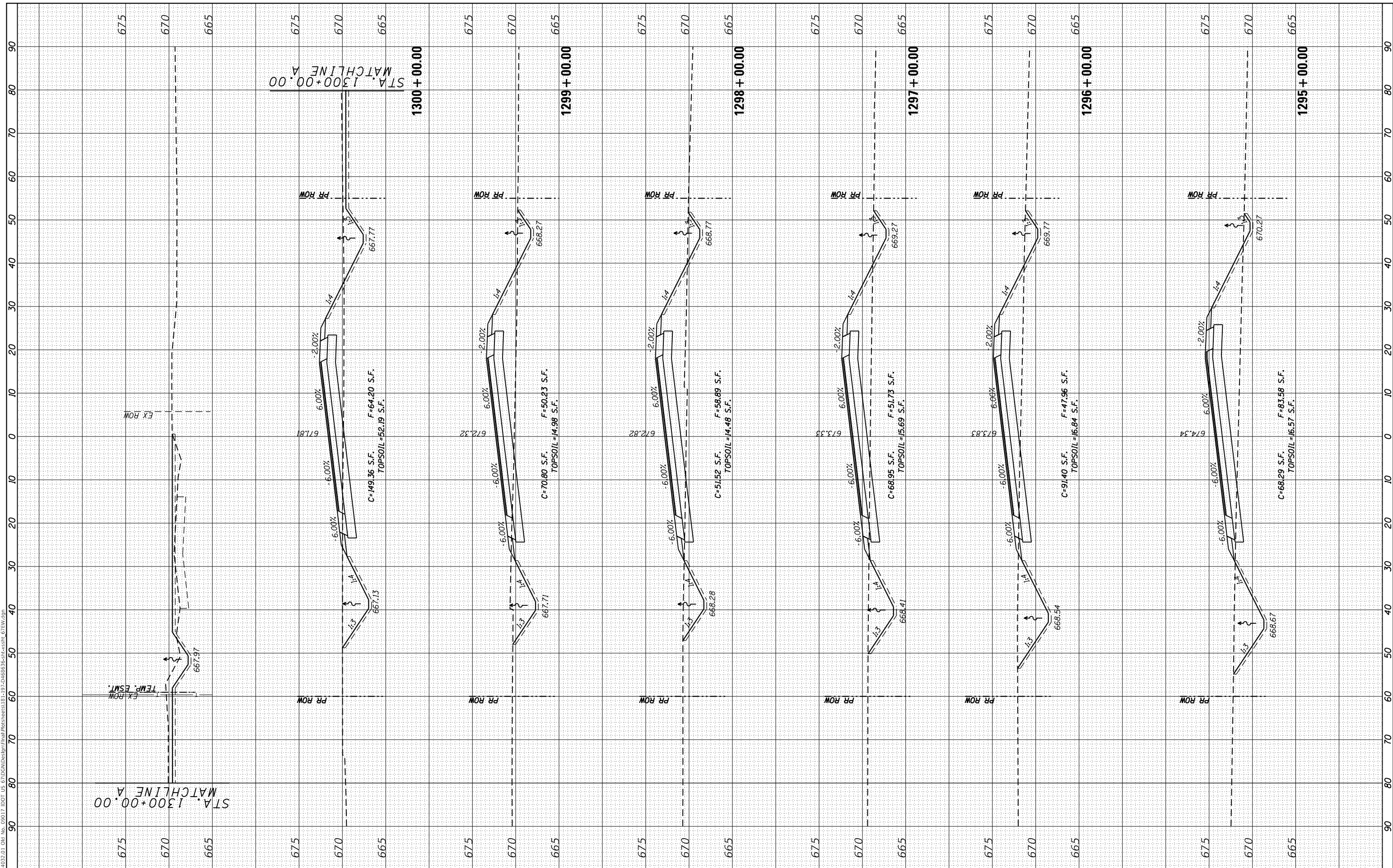
F.A.P. RTE. 310	SECTION 101W-1.RS-2; 28W-1.RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 195
CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	



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

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

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 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISIONS
PLOT SCALE = 20.0000' / in.	DRAWN - JRD	REVISIONS
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISIONS
	DATE - 12/9/2020	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

SCALE: 5'V : 10'H SHEET 16 OF 54 SHEETS STA. 1295+00.00 TO STA. 1300+00.00

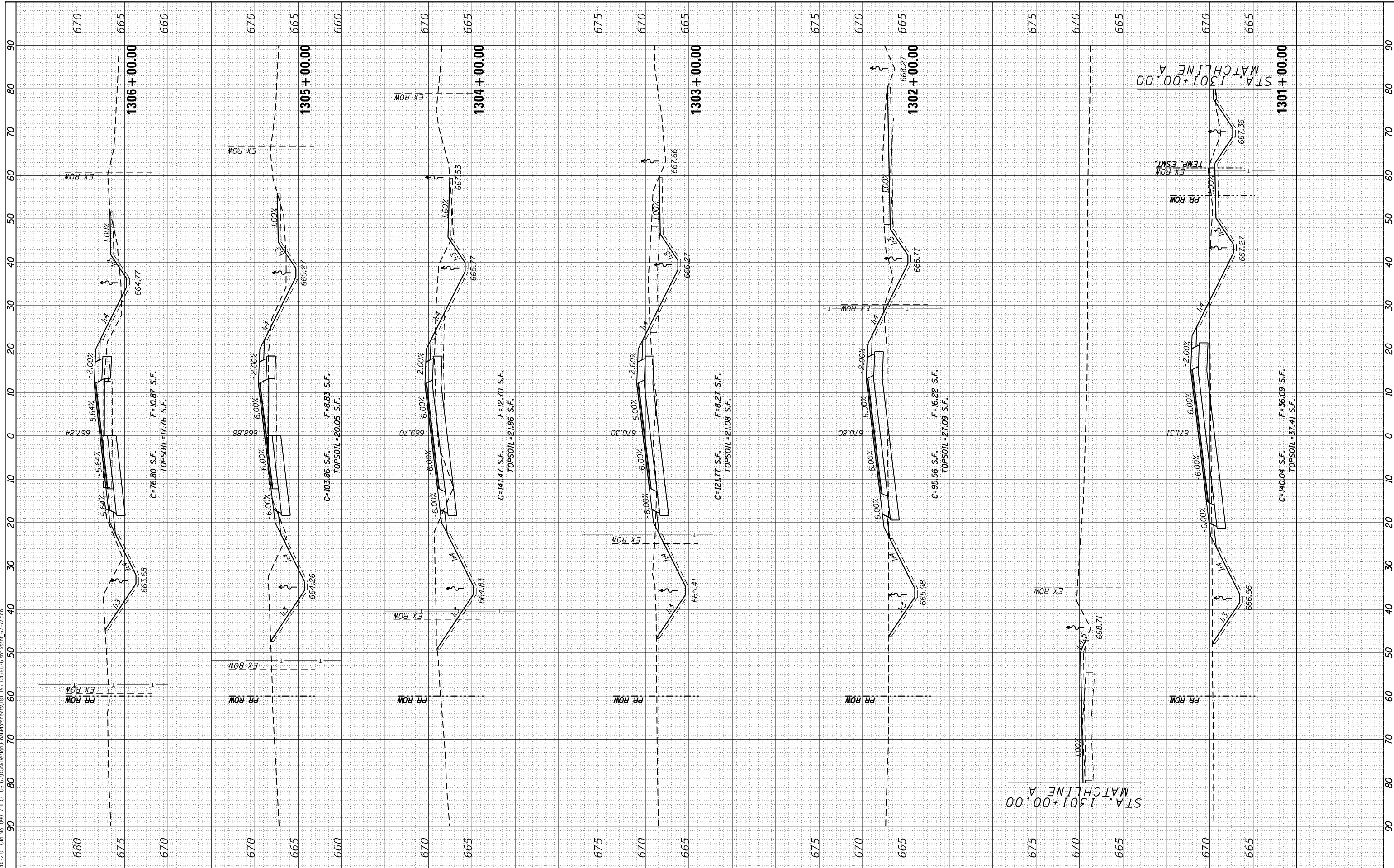
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CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

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**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISIONS
PLOT SCALE = 20.0000' / in.	DRAWN - JRD	REVISIONS
PLOT DATE = 12/9/2020	CHECKED - SLD	REVISIONS
	DATE - 12/9/2020	REVISIONS

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FAP 310  
 CROSS SECTIONS**

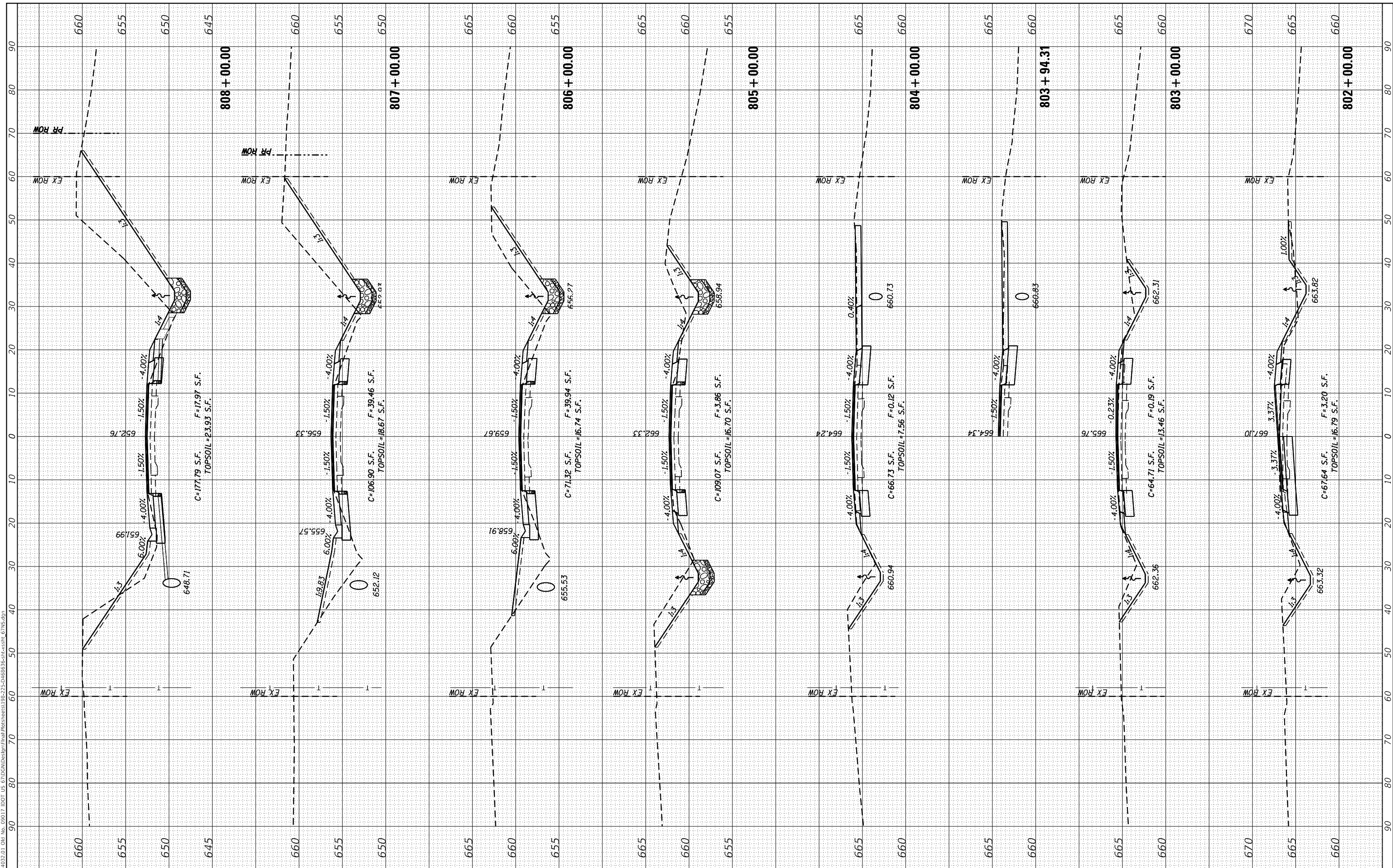
SCALE: 5'V : 10'H SHEET 17 OF 54 SHEETS STA. 1301+00.00 TO STA. 1306+00.00

F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 197
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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NOTE BOOK	PLOTTED		
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**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD
	DRAWN - JRD
PLOT SCALE = 20.0000' / in.	CHECKED - SLD
PLOT DATE = 12/9/2020	DATE - 12/9/2020

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

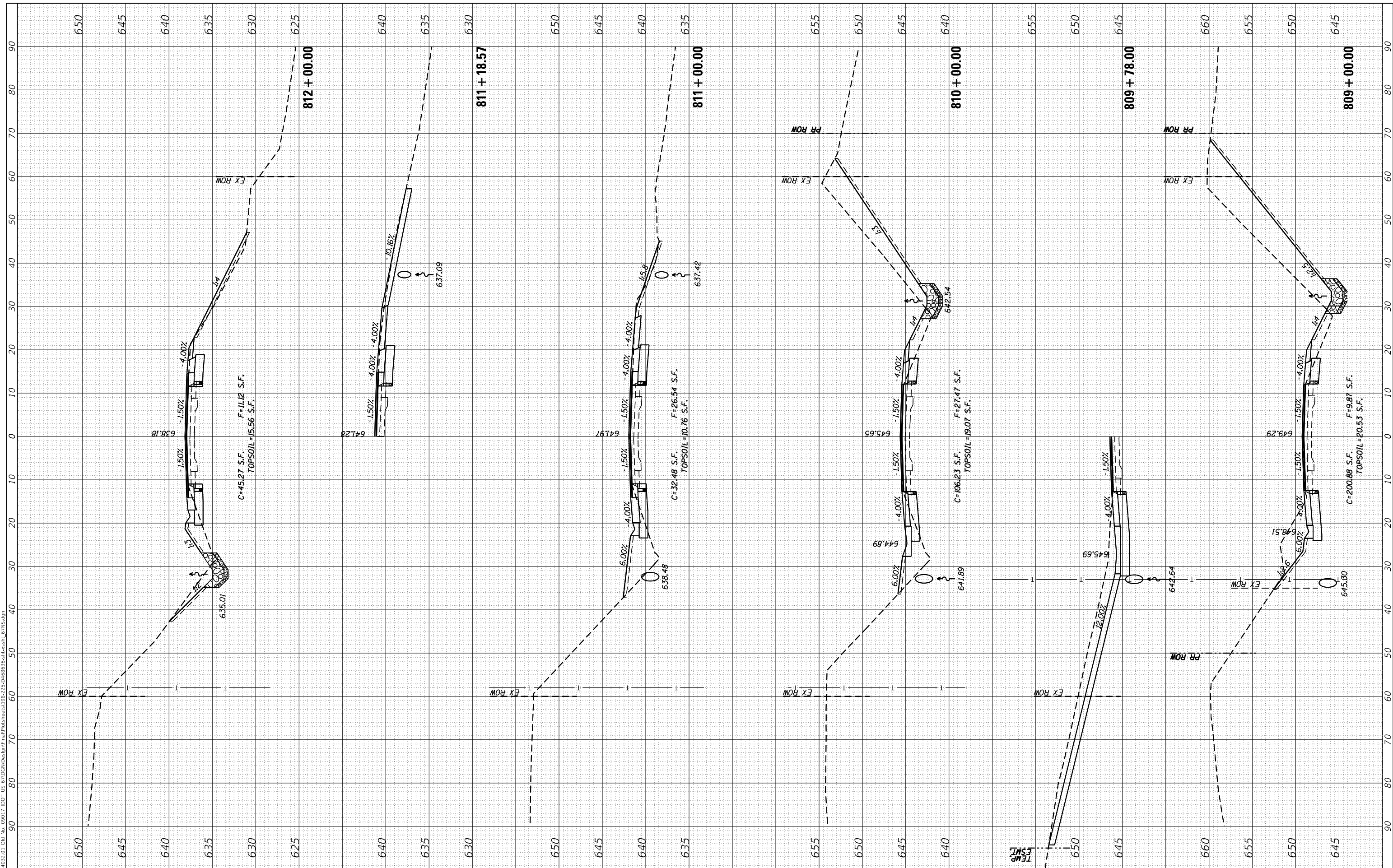
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F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 198
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

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**EFK Moen**  
 Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD	REVISED -
	DRAWN - JRD	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 12/9/2020	DATE - 12/9/2020	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FAP 310  
 CROSS SECTIONS

SCALE: 5'V : 10'H SHEET 19 OF 54 SHEETS STA. 809+00.00 TO STA. 812+00.00

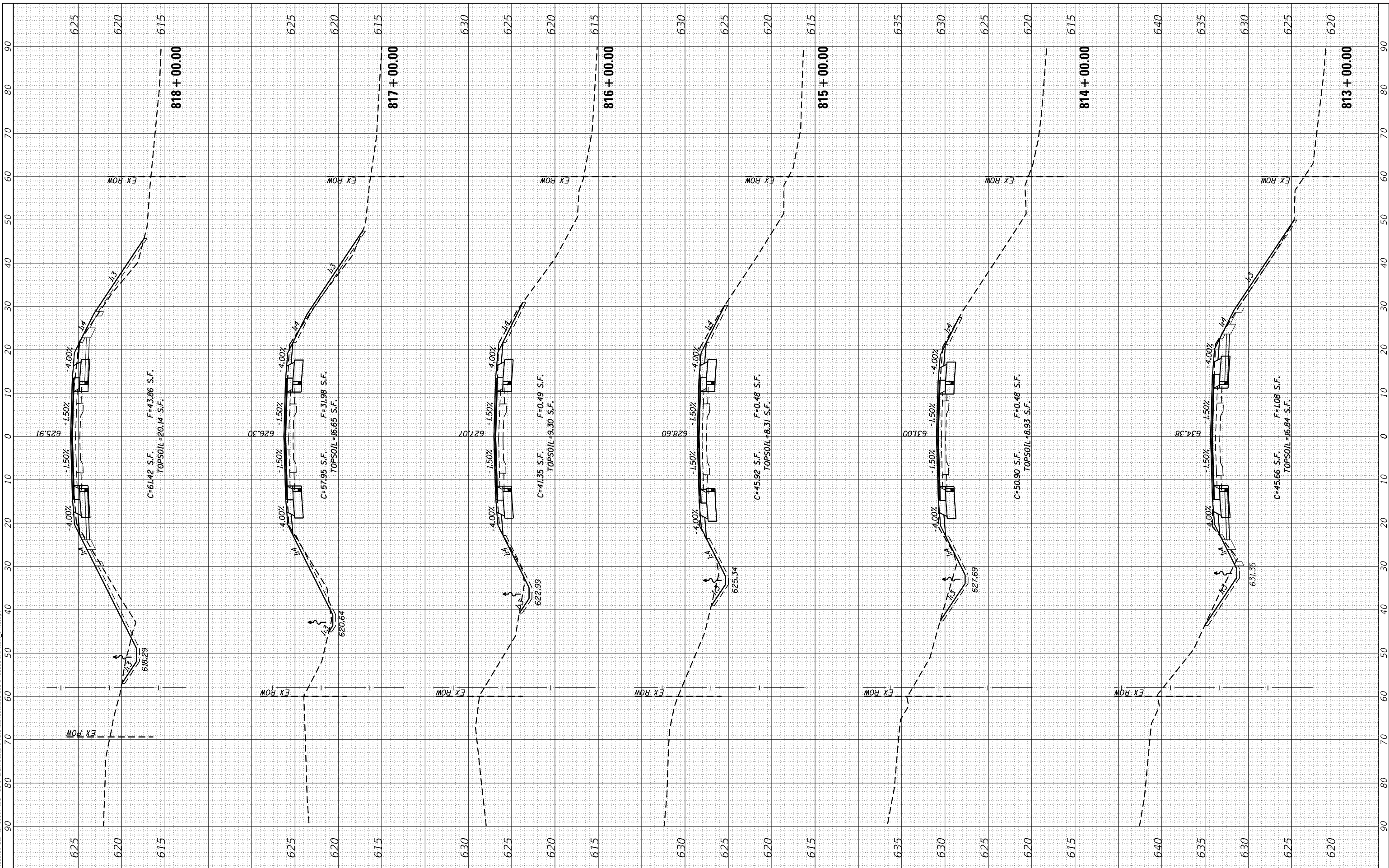
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CONTRACT NO. 68636			ILLINOIS FED. AID PROJECT	



FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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**EFK Moen**  
Civil Engineering Design

USER NAME = zWaters	DESIGNED - JRD
	DRAWN - JRD
PLOT SCALE = 20.0000' / in.	CHECKED - SLD
PLOT DATE = 12/9/2020	DATE - 12/9/2020

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FAP 310  
CROSS SECTIONS

SCALE: 5'V : 10'H SHEET 20 OF 54 SHEETS STA. 813+00.00 TO STA. 818+00.00

F.A.P. RTE. 310	SECTION 101W-1,RS-2; 28W-1,RS-5	COUNTY WARREN/MERCER	TOTAL SHEETS 234	SHEET NO. 200
CONTRACT NO. 68636				
ILLINOIS FED. AID PROJECT				