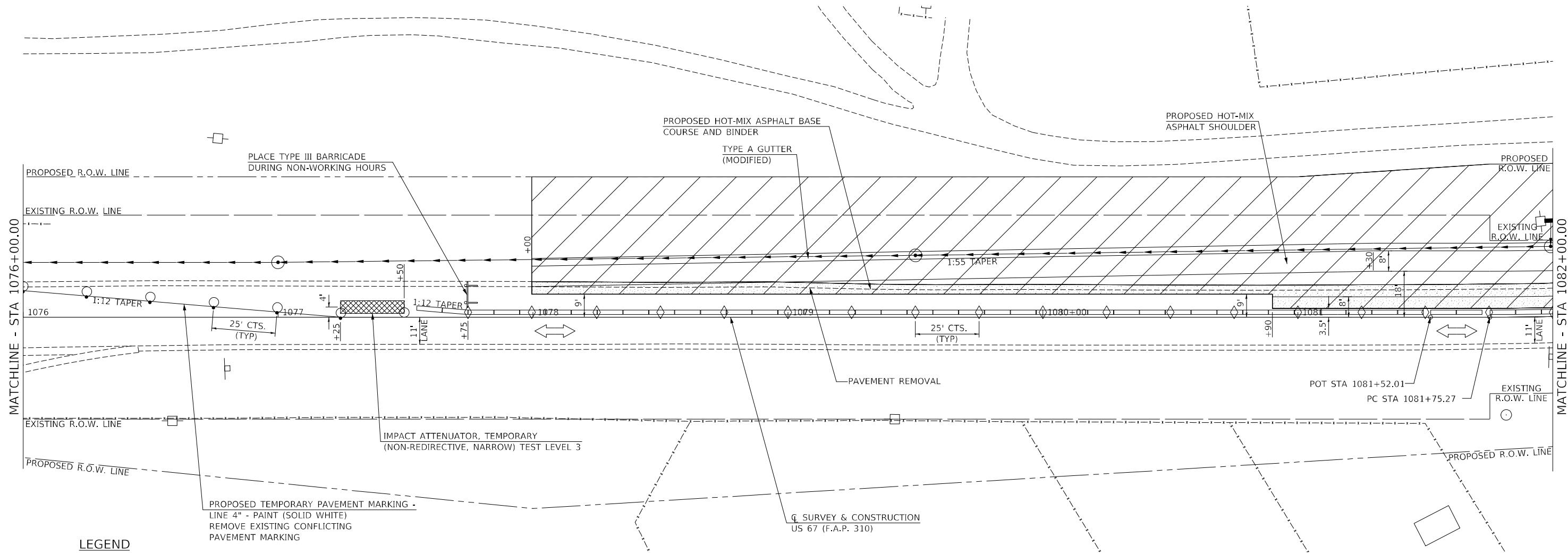


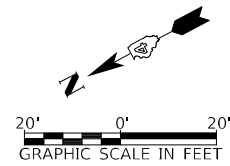
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LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



USER NAME = jvwhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

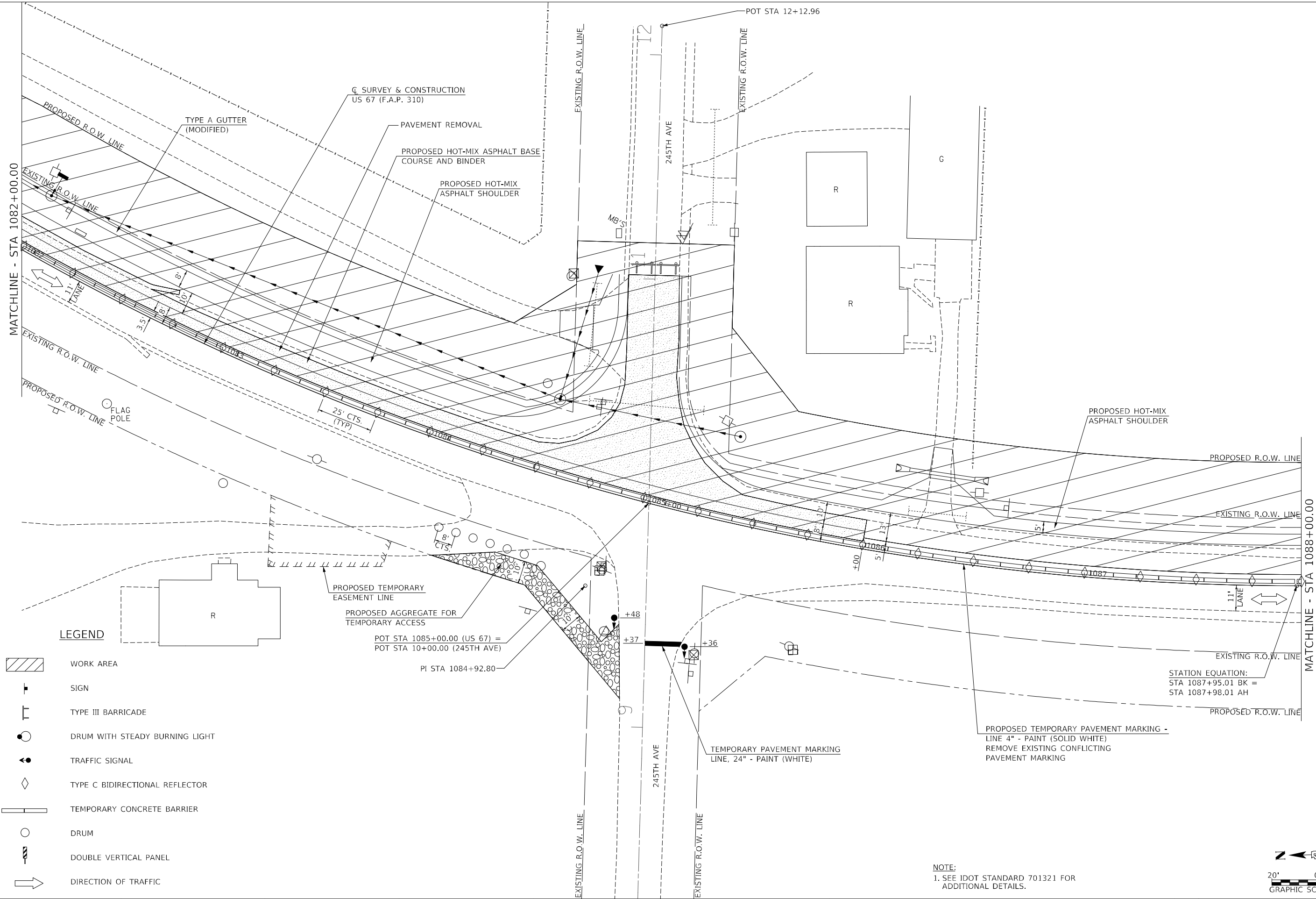
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 14 OF 29 SHEETS STA. 1076+00.00 TO STA. 1082+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	101
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: V:\6559 - US 67 over Ditch - IDOT P78149-19 (IDOT D:\JVCADD\CADD Sheets\6559-SHT_MOT-1085-00_03.dgn



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

Hutchison
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Since 1945

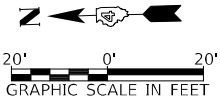
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

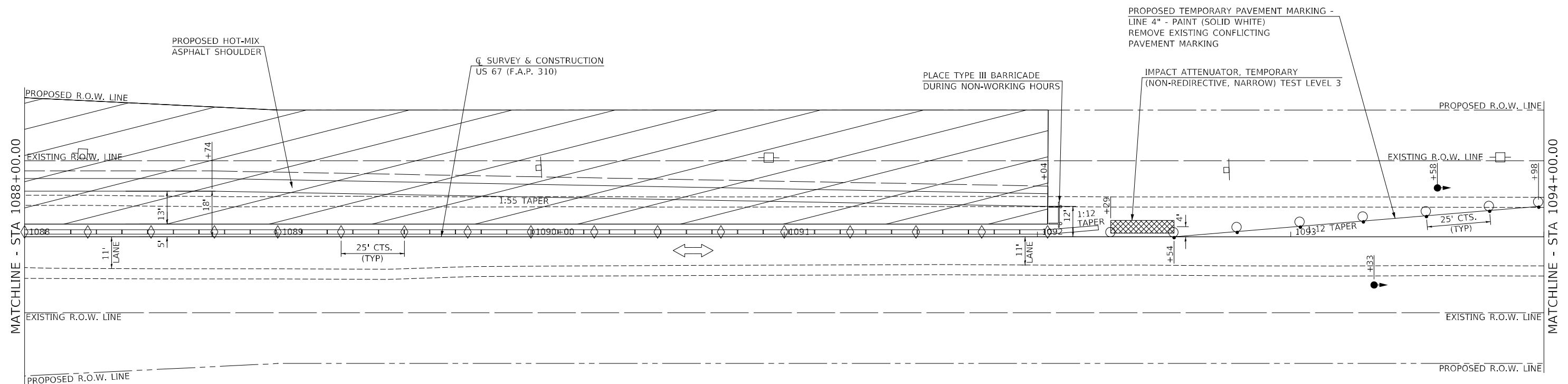
STAGE 1 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 15 OF 29 SHEETS STA. 1082+00.00 TO STA. 1088+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	102
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



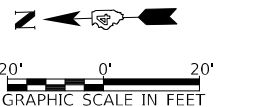
NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.



LEGEND

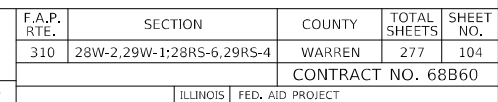
- | | |
|---|--------------------------------|
|  | WORK AREA |
|  | SIGN |
|  | TYPE III BARRICADE |
|  | DRUM WITH STEADY BURNING LIGHT |
|  | TRAFFIC SIGNAL |
|  | TYPE C BIDIRECTIONAL REFLECTOR |
|  | TEMPORARY CONCRETE BARRIER |
|  | DRUM |
|  | DOUBLE VERTICAL PANEL |
|  | DIRECTION OF TRAFFIC |

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



USER NAME = JWhite	DESIGNED - TCQ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	103
		CONTRACT NO. 68B60		
		ILLINOIS FED. AID PROJECT		



STAGE 2

TRAFFIC:

1. INSTALL SIGNING, TEMPORARY TRAFFIC SIGNALS, AND TRAFFIC CONTROL USING STANDARD 701321 AND AS SHOWN IN THE MOT PLANS.
2. CLOSE WEST LEG OF 245TH AVENUE USING STANDARD BLR 21.

CONSTRUCTION:

1. REMOVE PAVEMENT FROM 9 FEET FROM CENTERLINE TO EXISTING EDGE OF PAVEMENT, COMPLETE HOT-MIX ASPHALT SURFACE REMOVAL $\frac{3}{4}$ ", LEVELING BINDER, AND CONSTRUCT HOT-MIX ASPHALT BASE COURSE WIDENING TO BINDER SURFACE LEVEL FROM STATION 1078+00 TO STATION 1080+90.
2. REMOVE PAVEMENT AND CONSTRUCT FULL DEPTH HOT-MIX ASPHALT PAVEMENT TO BINDER SURFACE LEVEL FROM STATION 1080+90 TO STATION 1086+00 AND THE WEST LEG OF 245TH AVENUE.
3. COMPLETE HOT-MIX ASPHALT SURFACE REMOVAL $\frac{3}{4}$ ", LEVELING BINDER, HOT-MIX ASPHALT BASE COURSE, AND HOT-MIX ASPHALT BASE COURSE WIDENING FROM STATION 1086+00 TO STATION 1092+04.
4. CONSTRUCT TYPE A CONCRETE GUTTER (MODIFIED), ENTRANCES, AGGREGATE SHOULDERS, AND DITCHES.
5. MAINTAIN TEMPORARY ENTRANCE FROM STATION 1084+18 RT TO 245TH AVENUE. PREVENT ACCESS TO HIGHWAY AT EXISTING ENTRANCE LOCATION.
6. CONSTRUCT NEW ENTRANCE AT STATION 1083+70 RT AND PREVENT ACCESS TO HIGHWAY AT THIS LOCATION.

POST STAGE 2

TRAFFIC:

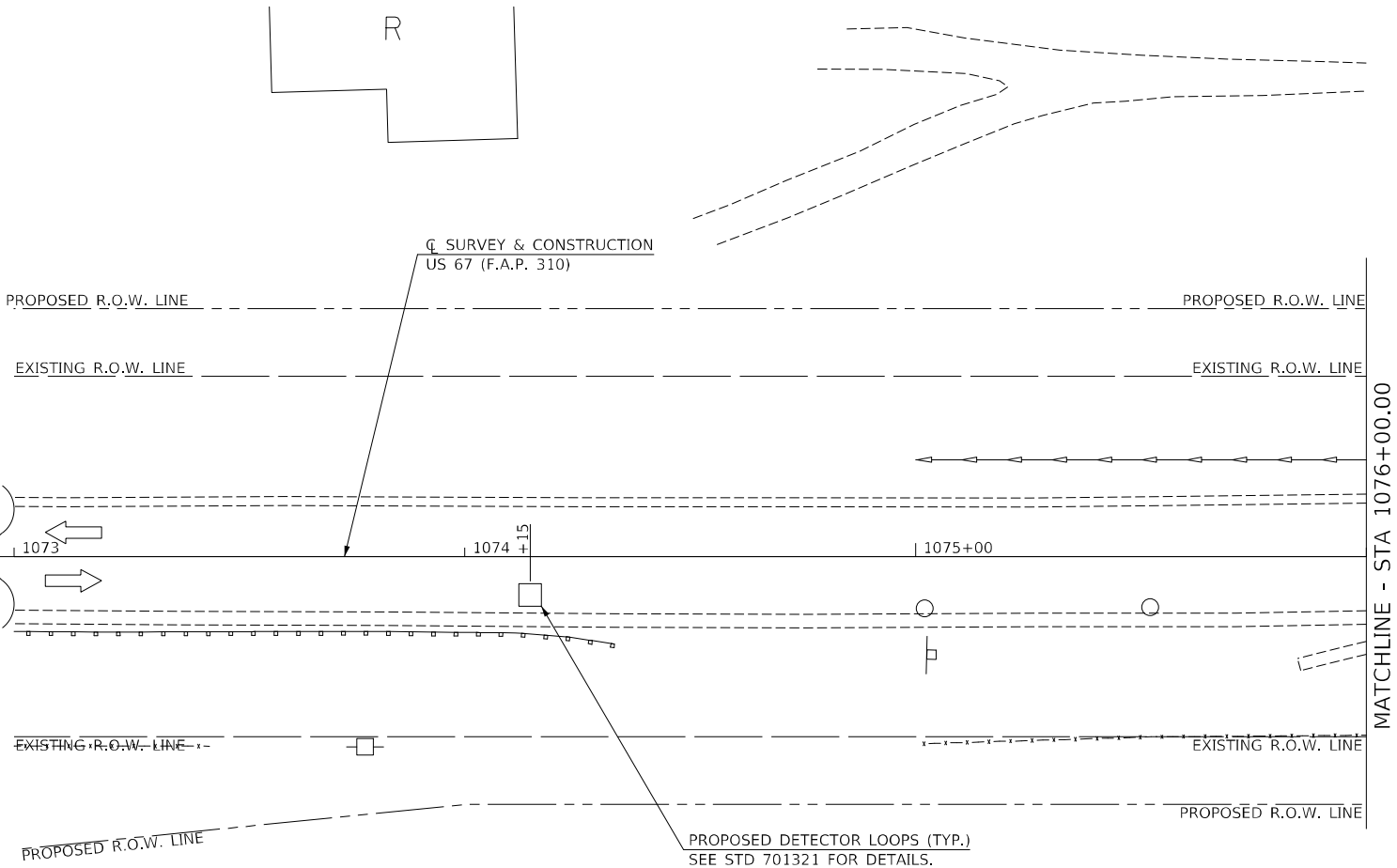
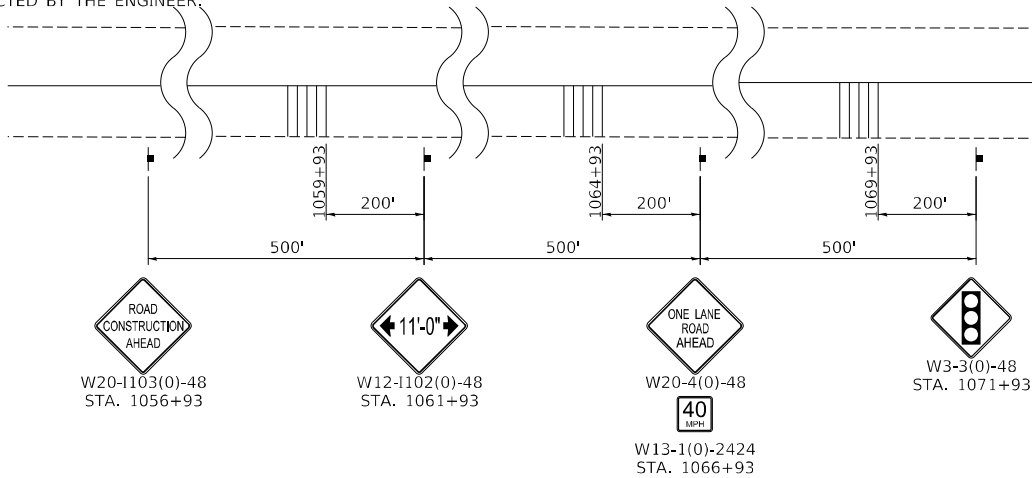
1. INSTALL SIGNING AND TRAFFIC CONTROL USING STANDARD 701306.
2. CONSTRUCTION SHALL BE COMPLETED UNDER TRAFFIC IN ACCORDANCE WITH STANDARD 701306.

CONSTRUCTION:

1. CONSTRUCT HOT-MIX ASPHALT SURFACE COURSE FROM STATION 1078+00 TO STATION 1092+04.

GENERAL NOTES

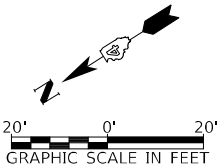
1. ALL IMPROVEMENTS NOT SHOWN ON STAGING PLANS SHALL BE CONSTRUCTED WITH APPROPRIATE TRAFFIC CONTROL STANDARDS.
2. DURING NON-WORKING HOURS WHEN THE DROP-OFF ADJACENT TO A DRIVING LANE IS GREATER THAN 2", REGARDLESS OF THE LENGTH OR NUMBER OF TIMES THE TREATMENT MUST BE APPLIED, THE CONTRACTOR SHALL WEDGE TYPE A AGGREGATE (OR SIMILAR) FROM THE EDGE OF PAVEMENT AT 1:3 SLOPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT AND SHALL BE INCLUDED IN THE COST OF THE PAY ITEMS FOR THE SHOULDER QUANTITIES AS SPECIFIED ON THE PLANS.
3. INGRESS/EGRESS SHALL BE MAINTAINED FOR ALL ENTRANCES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL ONLY CONSTRUCT IMPROVEMENTS ALONG ONE SIDE OF US 67 UNLESS OTHERWISE SPECIFIED OR AS DIRECTED BY THE ENGINEER.



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.



MODEL: Default
FILE NAME: V:\6559 - US 67 over Ditch - IDOT P78149-19 (IDOT D-11)CADD\CADD Sheets\6559-SHT_MOT2-1085-00_01.dgn



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	DRAWN - JCW	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

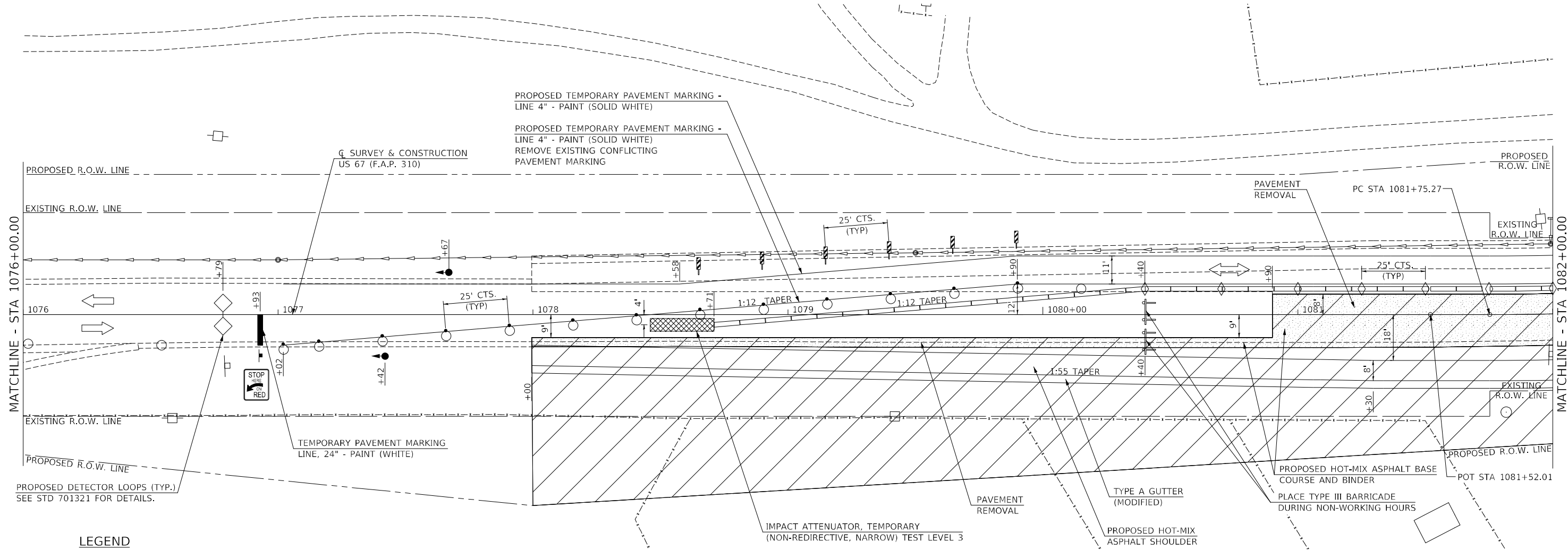
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 18 OF 29 SHEETS STA. 1070+00.00 TO STA. 1076+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	105
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

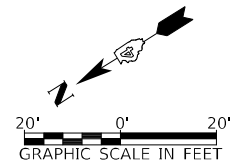
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LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



Hutchison
Engineering, Inc.
Since 1945

USER NAME = jwhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

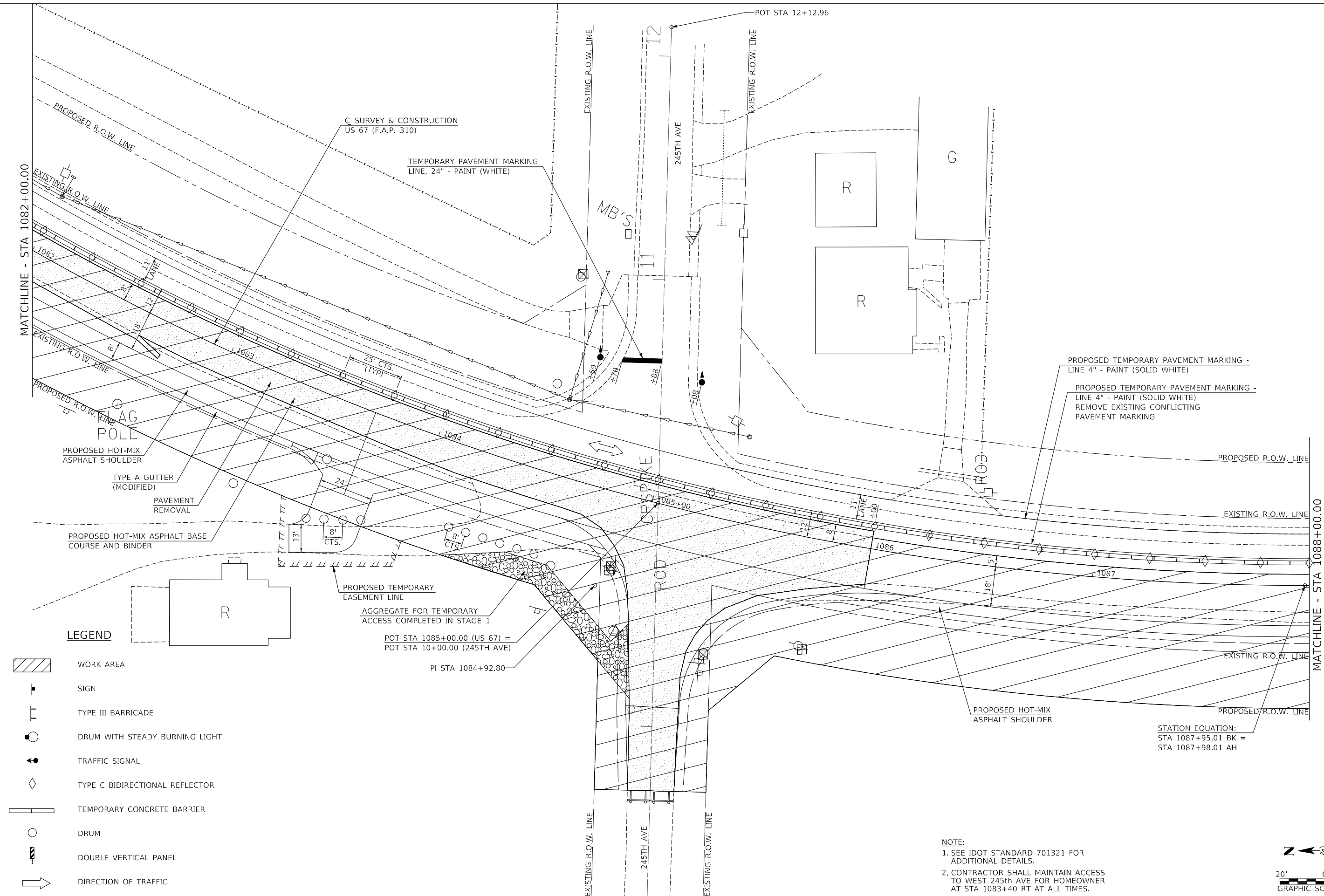
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 19 OF 29 SHEETS STA. 1076+00.00 TO STA. 1082+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	106
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: V:\6559 - US 67 over Ditch - IDOT P7B149-19 (IDOT D-41VCADD\CADD Sheets\4655-SHT_MOT2-1085-00_03.dgn



LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC



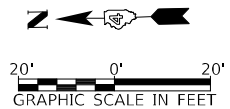
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PLOT DATE	= 3/22/2023	DATE -	3/16/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

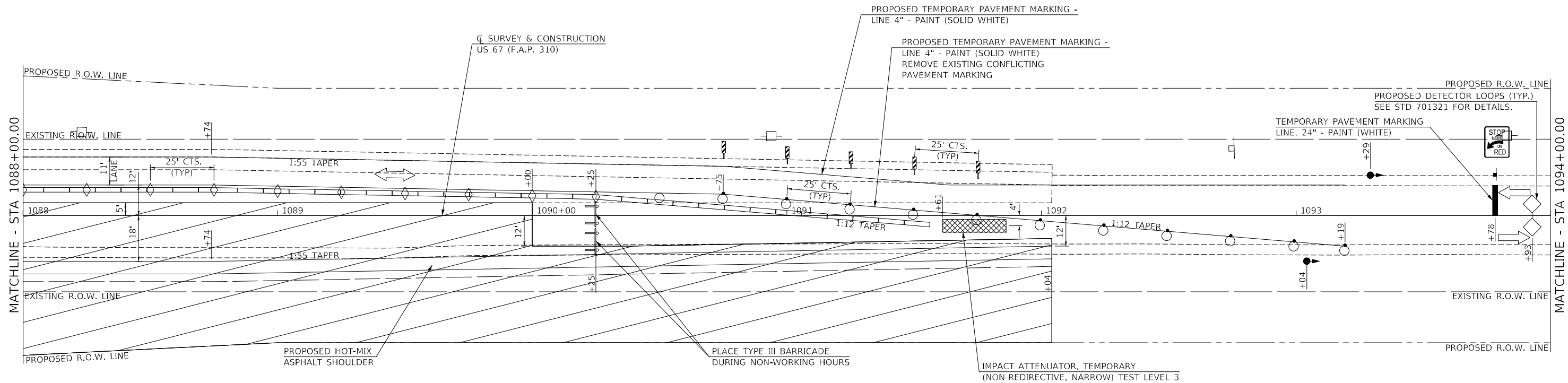
SCALE: 1"=20'-0" SHEET 20 OF 29 SHEETS STA. 1082+00.00 TO STA. 1088+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	107
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



- NOTE:
- SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO WEST 245th AVE FOR HOMEOWNER AT STA 1083+40 RT AT ALL TIMES.

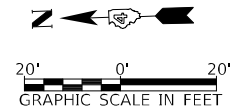
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LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



Hutchison
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Since 1945

USER NAME = JWhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	REVISED -	
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PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

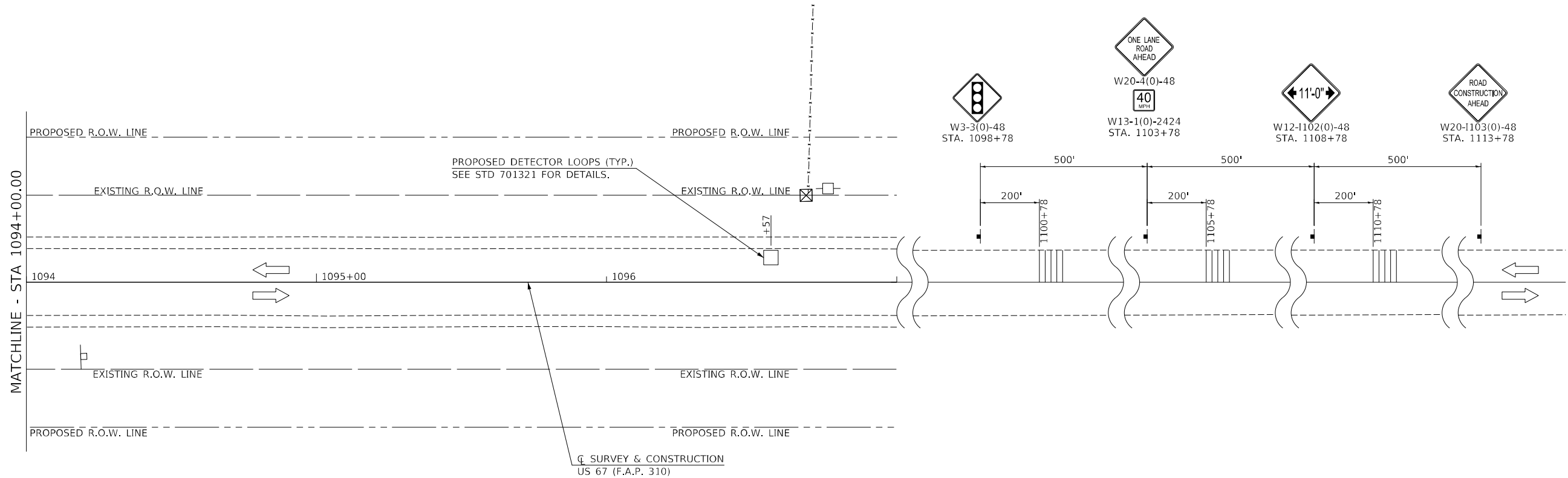
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 21 OF 29 SHEETS STA. 1088+00.00 TO STA. 1094+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	108
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

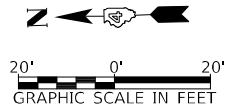
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LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



USER NAME = JWhite	DESIGNED - TCQ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PROFILE GRADE CHANGE - STA 1080+00 TO STA 1086+00

SCALE: 1"=20'-0" SHEET 22 OF 29 SHEETS STA. 1094+00.00 TO STA. 1100+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	109
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

STAGE 1

TRAFFIC:

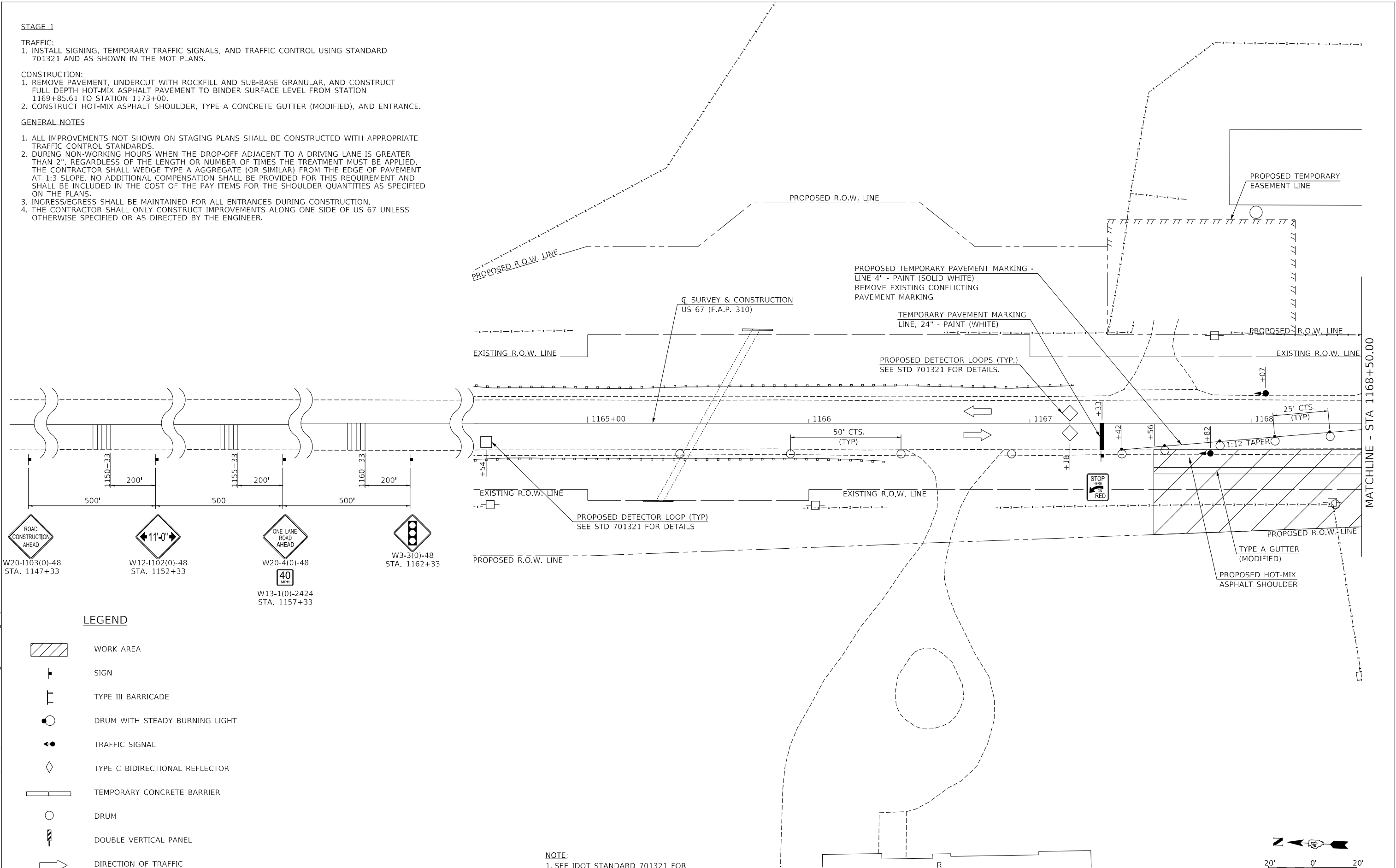
1. INSTALL SIGNING, TEMPORARY TRAFFIC SIGNALS, AND TRAFFIC CONTROL USING STANDARD 701321 AND AS SHOWN IN THE MOT PLANS.

CONSTRUCTION:

1. REMOVE PAVEMENT, UNDERCUT WITH ROCKFILL AND SUB-BASE GRANULAR, AND CONSTRUCT FULL DEPTH HOT-MIX ASPHALT PAVEMENT TO BINDER SURFACE LEVEL FROM STATION 1169+85.61 TO STATION 1173+00.
2. CONSTRUCT HOT-MIX ASPHALT SHOULDER, TYPE A CONCRETE GUTTER (MODIFIED), AND ENTRANCE.

GENERAL NOTES

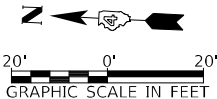
1. ALL IMPROVEMENTS NOT SHOWN ON STAGING PLANS SHALL BE CONSTRUCTED WITH APPROPRIATE TRAFFIC CONTROL STANDARDS.
2. DURING NON-WORKING HOURS WHEN THE DROP-OFF ADJACENT TO A DRIVING LANE IS GREATER THAN 2", REGARDLESS OF THE LENGTH OR NUMBER OF TIMES THE TREATMENT MUST BE APPLIED, THE CONTRACTOR SHALL WEDGE TYPE A AGGREGATE (OR SIMILAR) FROM THE EDGE OF PAVEMENT AT 1:3 SLOPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT AND SHALL BE INCLUDED IN THE COST OF THE PAY ITEMS FOR THE SHOULDER QUANTITIES AS SPECIFIED ON THE PLANS.
3. INGRESS/EGRESS SHALL BE MAINTAINED FOR ALL ENTRANCES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL ONLY CONSTRUCT IMPROVEMENTS ALONG ONE SIDE OF US 67 UNLESS OTHERWISE SPECIFIED OR AS DIRECTED BY THE ENGINEER.



LEGEND

- WORK AREA
SIGN
TYPE III BARRICADE
DRUM WITH STEADY BURNING LIGHT
TRAFFIC SIGNAL
TYPE C BIDIRECTIONAL REFLECTOR
TEMPORARY CONCRETE BARRIER
DRUM
DOUBLE VERTICAL PANEL
DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.



MODEL Default
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Since 1945

USER NAME = JWhite	DESIGNED - TCQ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

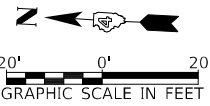
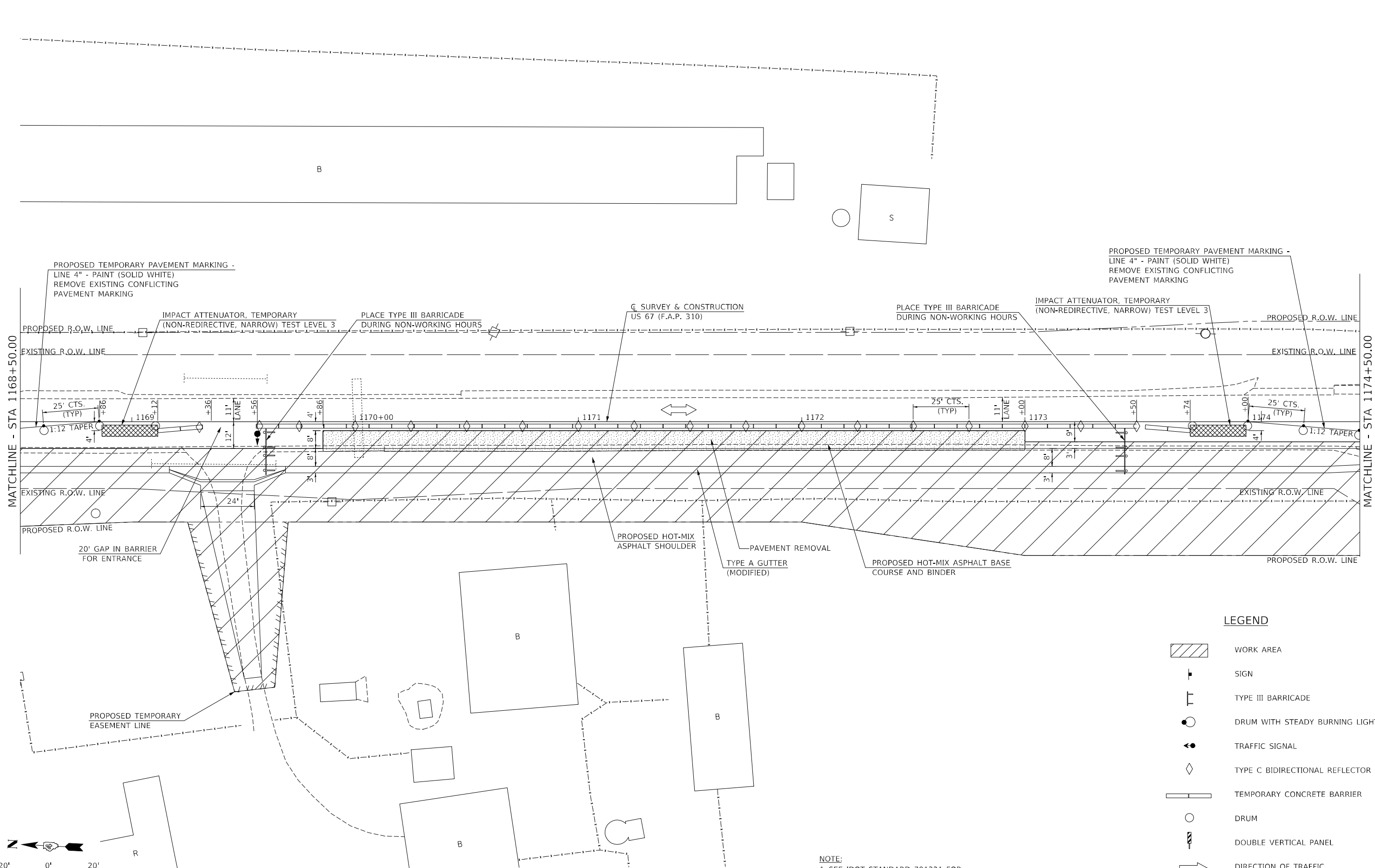
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 MAINTENANCE OF TRAFFIC
PAVEMENT REPLACEMENT – STA 1169+85.61 TO STA 1173+00

SCALE: 1"=20'-0" SHEET 23 OF 29 SHEETS STA. 1047+18.00 TO STA. 1168+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	110
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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Hutchison
Engineering, Inc.
Since 1945

USER NAME	= JWhite	DESIGNED -	TCQ	REVISED -	
DRAWN	- JCW	REVISED -			
PLOT SCALE	= 40,0000 * / in.	CHECKED -	AWM	REVISED -	
PLOT DATE	= 3/22/2023	DATE	- 3/16/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 MAINTENANCE OF TRAFFIC PAVEMENT REPLACEMENT – STA 1169+85.61 TO STA 1173+00			
SCALE: 1"=20'-0"	SHEET 24	OF 29 SHEETS	STA. 1168+50.00 TO STA. 1174+50.00

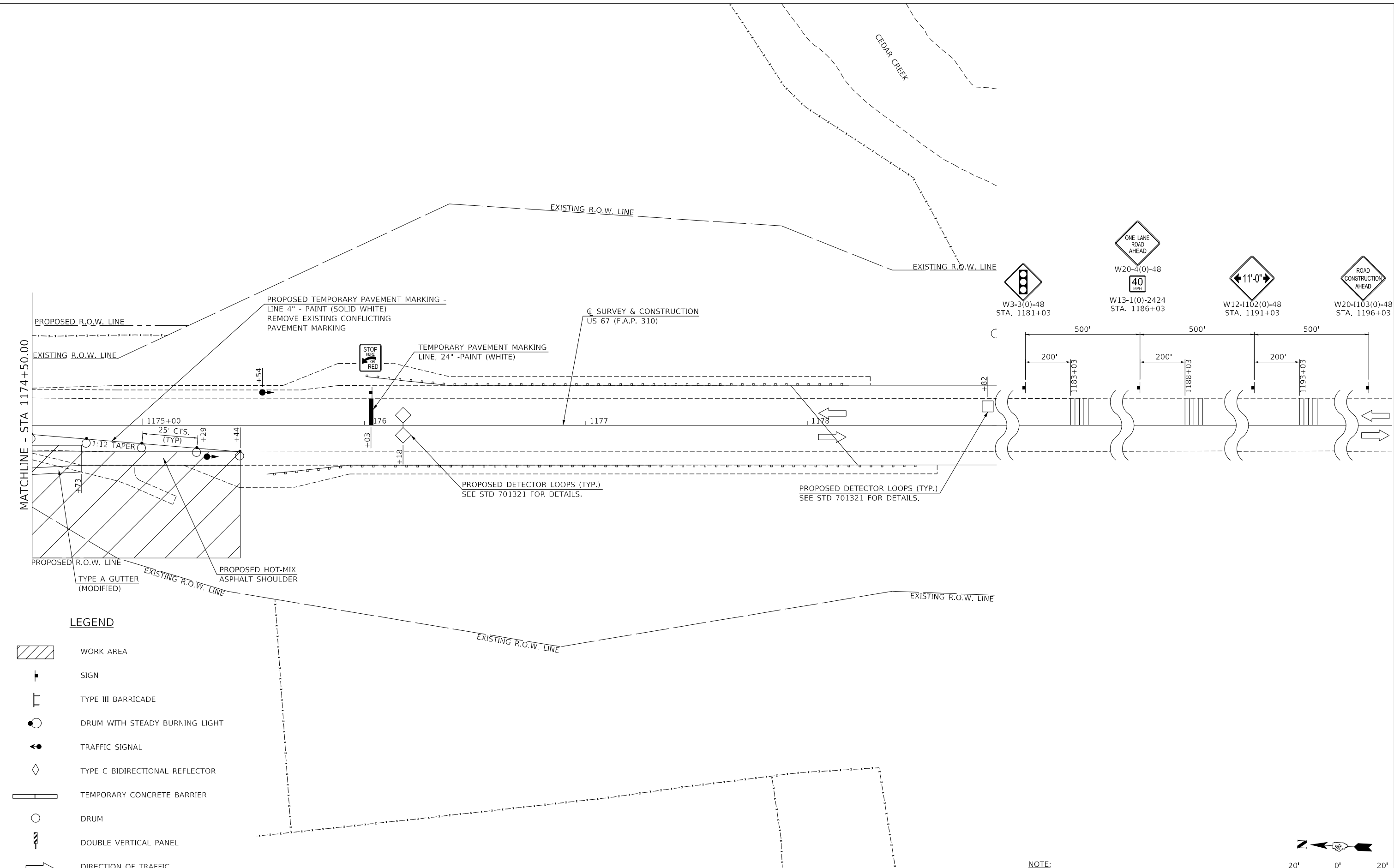
F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	111	
CONTRACT NO. 68B60					
ILLINOIS FED. AID PROJECT					

LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.

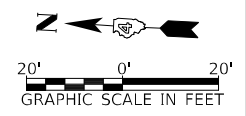
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LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR
ADDITIONAL DETAILS.



USER NAME = jvWhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 40,0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/16/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 MAINTENANCE OF TRAFFIC PAVEMENT REPLACEMENT – STA 1169+85.61 TO STA 1173+00			
SCALE: 1"=20'-0"	SHEET 25	OF 29 SHEETS	STA. 1174+50.00 TO STA. 1196+07.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	112
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

STAGE 2

TRAFFIC:

1. INSTALL SIGNING, TEMPORARY TRAFFIC SIGNALS, AND TRAFFIC CONTROL USING STANDARD 701321 AND AS SHOWN IN THE MOT PLANS.

CONSTRUCTION:

1. REMOVE PAVEMENT, UNDERCUT WITH ROCKFILL AND SUB-BASE GRANULAR, AND CONSTRUCT FULL DEPTH HOT-MIX ASPHALT PAVEMENT TO BINDER SURFACE LEVEL FROM STATION 1169+85.61 TO STATION 1173+00.
2. CONSTRUCT HOT-MIX ASPHALT SHOULDERS, TYPE A CONCRETE GUTTER (MODIFIED), AGGREGATE SHOULDERS, AND DITCHES.

POST STAGE 2

TRAFFIC:

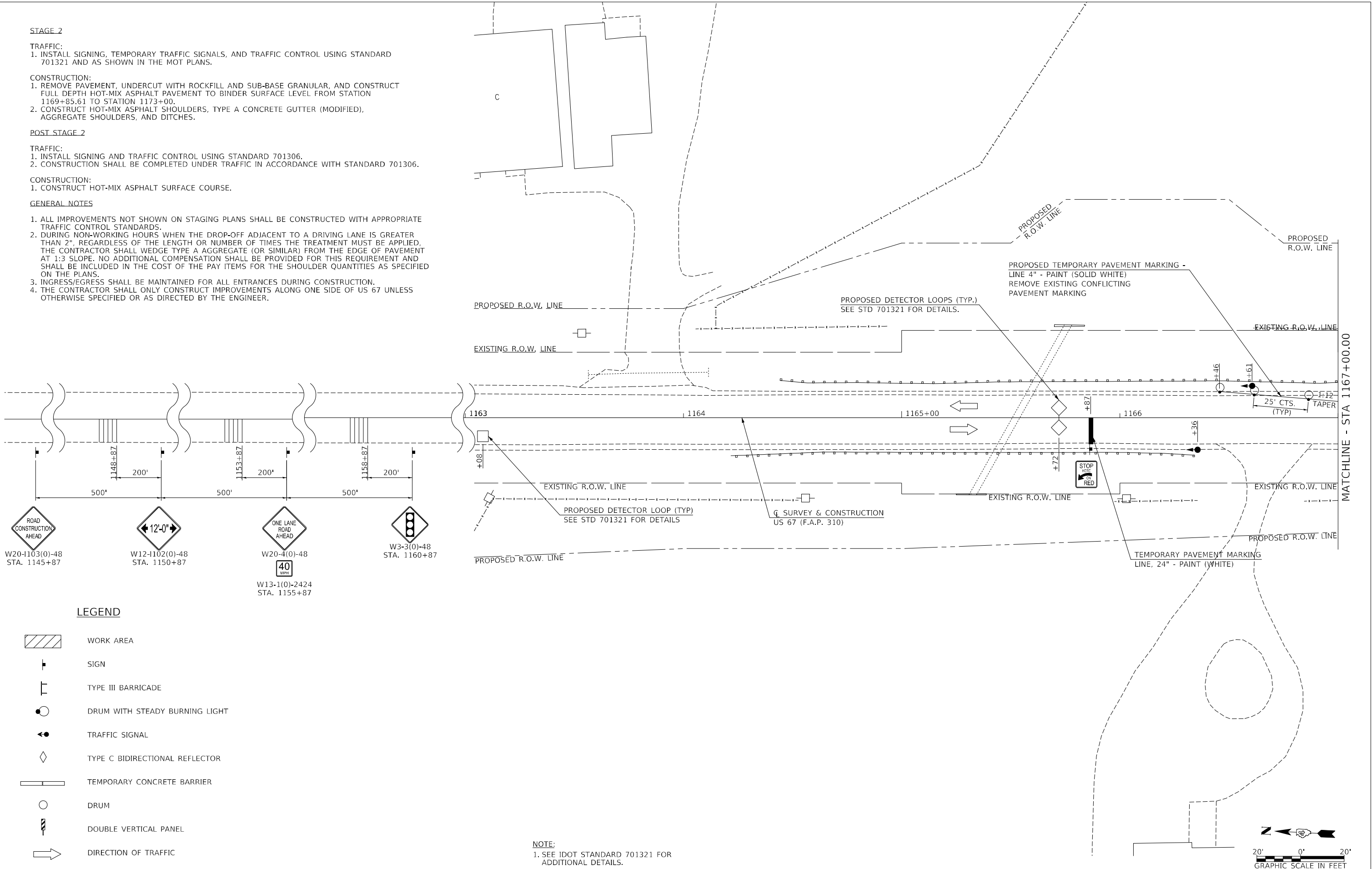
1. INSTALL SIGNING AND TRAFFIC CONTROL USING STANDARD 701306.
2. CONSTRUCTION SHALL BE COMPLETED UNDER TRAFFIC IN ACCORDANCE WITH STANDARD 701306.

CONSTRUCTION:

1. CONSTRUCT HOT-MIX ASPHALT SURFACE COURSE.

GENERAL NOTES

1. ALL IMPROVEMENTS NOT SHOWN ON STAGING PLANS SHALL BE CONSTRUCTED WITH APPROPRIATE TRAFFIC CONTROL STANDARDS.
2. DURING NON-WORKING HOURS WHEN THE DROP-OFF ADJACENT TO A DRIVING LANE IS GREATER THAN 2", REGARDLESS OF THE LENGTH OR NUMBER OF TIMES THE TREATMENT MUST BE APPLIED, THE CONTRACTOR SHALL WEDGE TYPE A AGGREGATE (OR SIMILAR) FROM THE EDGE OF PAVEMENT AT 1:3 SLOPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT AND SHALL BE INCLUDED IN THE COST OF THE PAY ITEMS FOR THE SHOULDER QUANTITIES AS SPECIFIED ON THE PLANS.
3. INGRESS/EGRESS SHALL BE MAINTAINED FOR ALL ENTRANCES DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL ONLY CONSTRUCT IMPROVEMENTS ALONG ONE SIDE OF US 67 UNLESS OTHERWISE SPECIFIED OR AS DIRECTED BY THE ENGINEER.



W20-1103(0)-48
STA. 1145+87

W12-1102(0)-48
STA. 1150+87

W20-4(0)-48
STA. 1160+87

W3-3(0)-48
STA. 1160+87

W13-1(0)-2424
STA. 1155+87

LEGEND

- WORK AREA
- SIGN
- TYPE III BARRICADE
- DRUM WITH STEADY BURNING LIGHT
- TRAFFIC SIGNAL
- TYPE C BIDIRECTIONAL REFLECTOR
- TEMPORARY CONCRETE BARRIER
- DRUM
- DOUBLE VERTICAL PANEL
- DIRECTION OF TRAFFIC

NOTE:
1. SEE IDOT STANDARD 701321 FOR ADDITIONAL DETAILS.

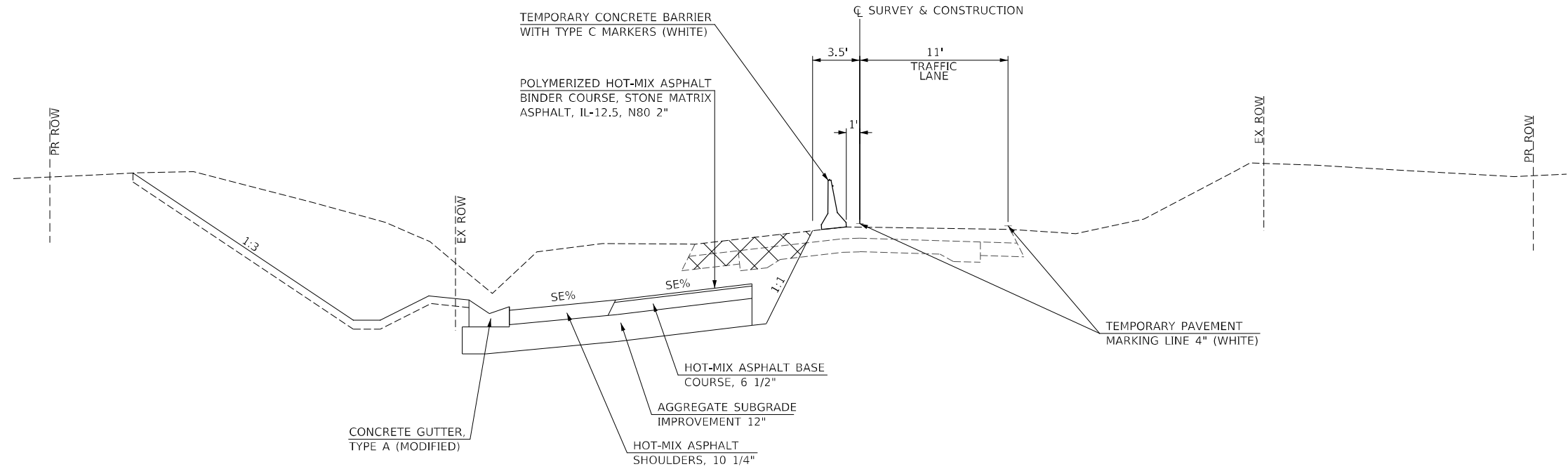
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 MAINTENANCE OF TRAFFIC
PAVEMENT REPLACEMENT – STA 1169+85.61 TO STA 1173+00

SCALE: 1"=20'-0" SHEET 26 OF 29 SHEETS STA. 1043+83.00 TO STA. 1167+00.00

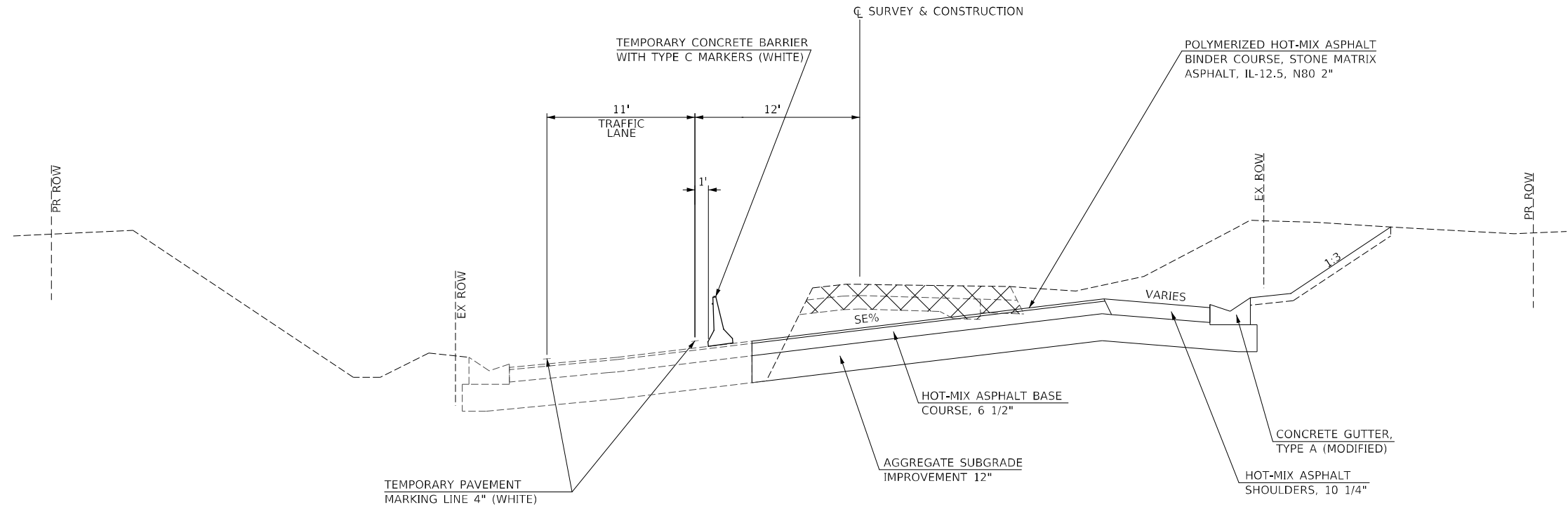
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	113
CONTRACT NO. 68B60				

ILLINOIS FED. AID PROJECT



TYPICAL SECTION
STAGE 1

STA 1080+90.00 TO STA 1086+00.00



TYPICAL SECTION
STAGE 2

STA 1080+90.00 TO STA 1086+00.00

NOTE:
HOT-MIX ASPHALT SURFACE COURSE, 2"
WILL BE DONE AFTER PHASE 2 IS COMPLETED.

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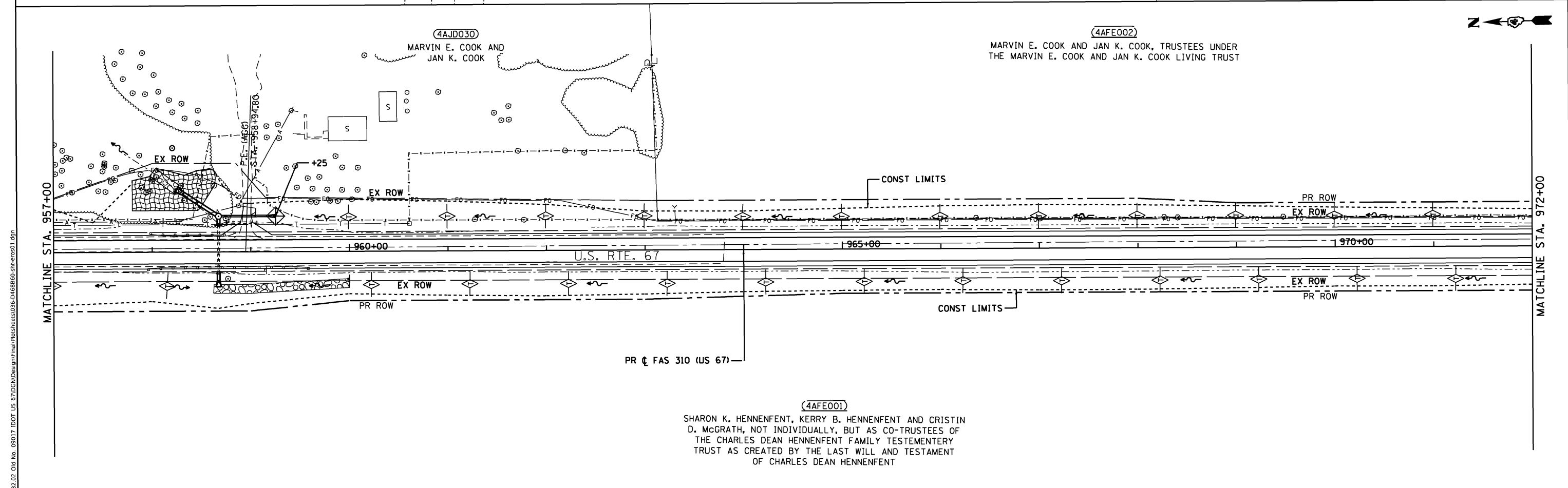
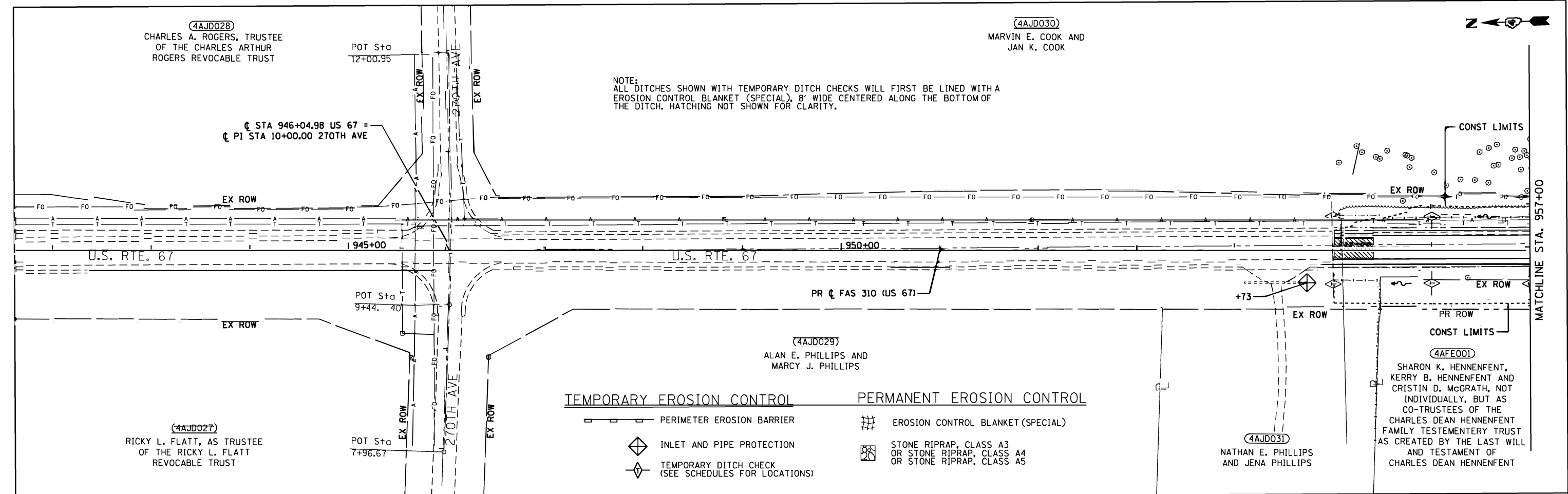
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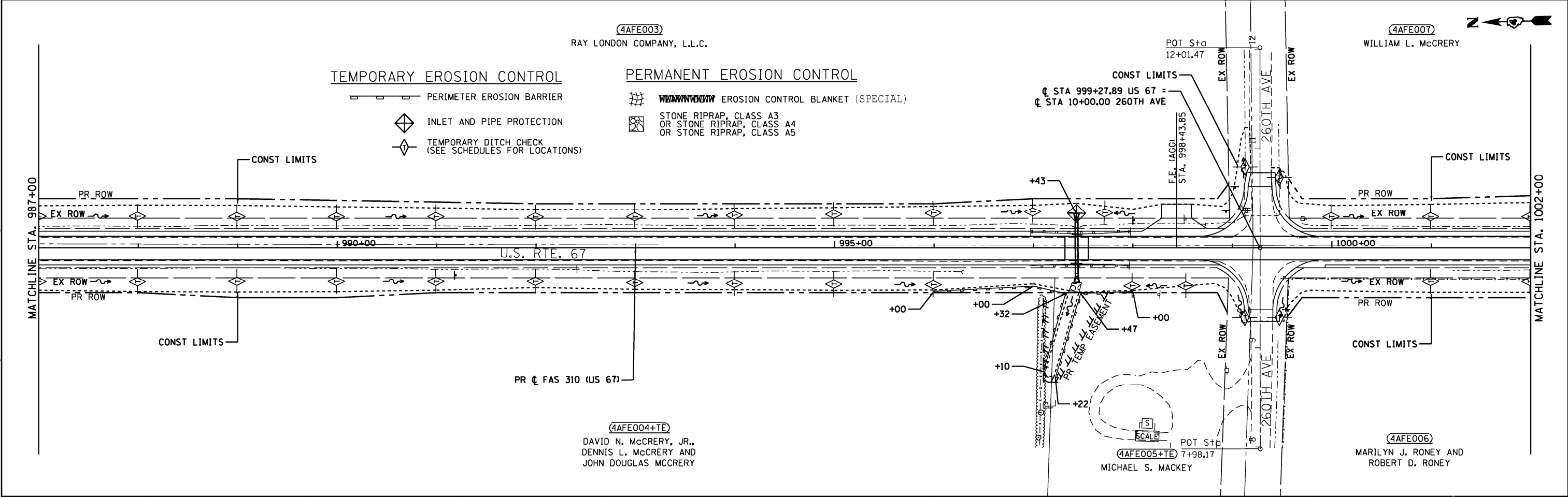
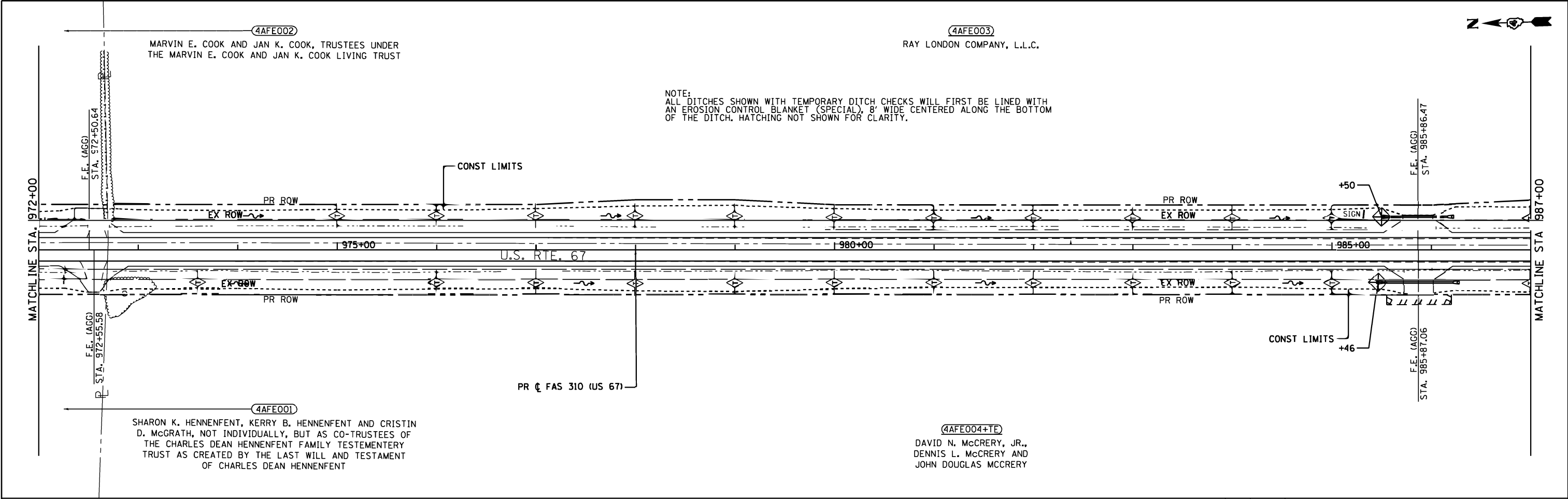
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

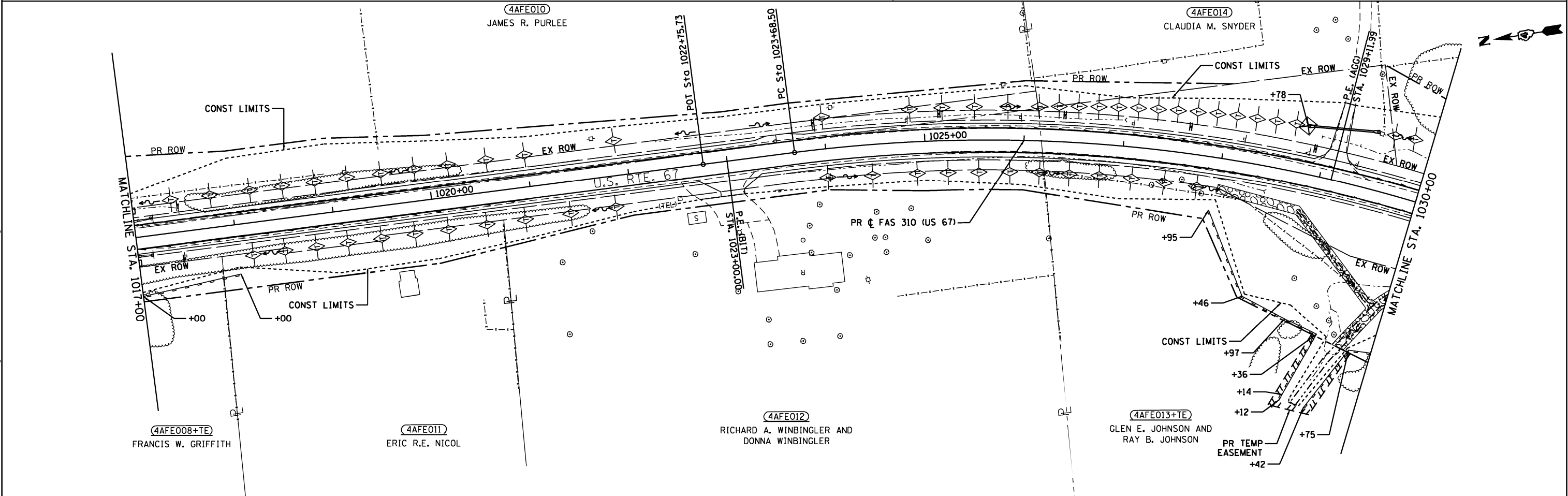
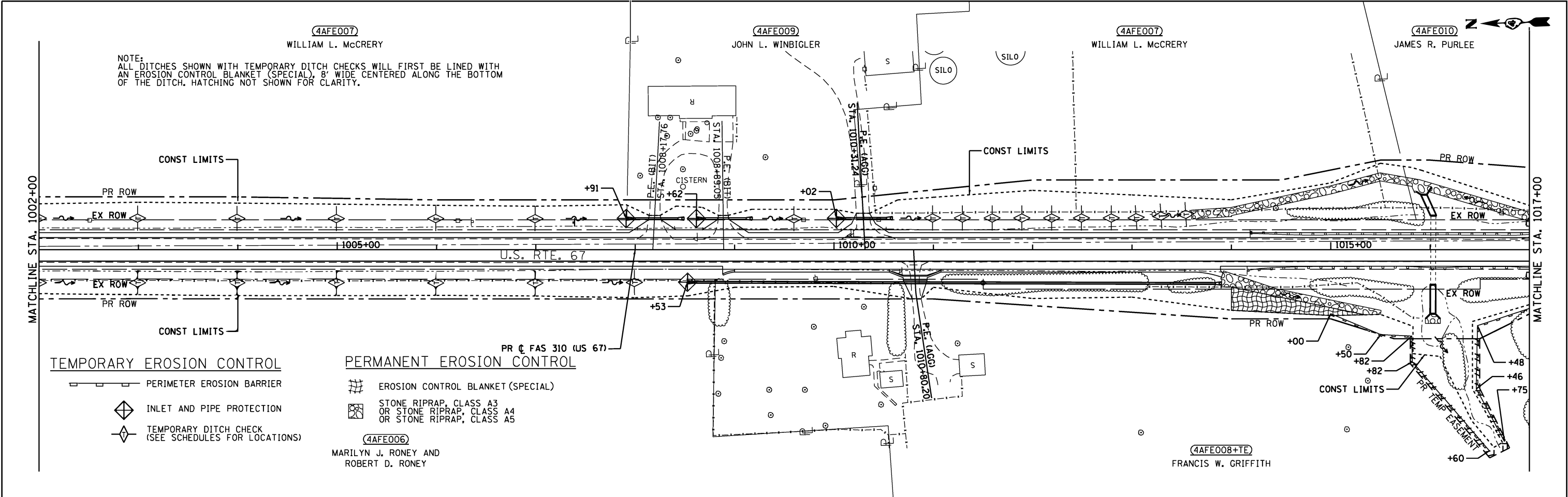
F.A.P. 310 (US 67)
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

SCALE: SHEET 29 OF 29 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	116
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				







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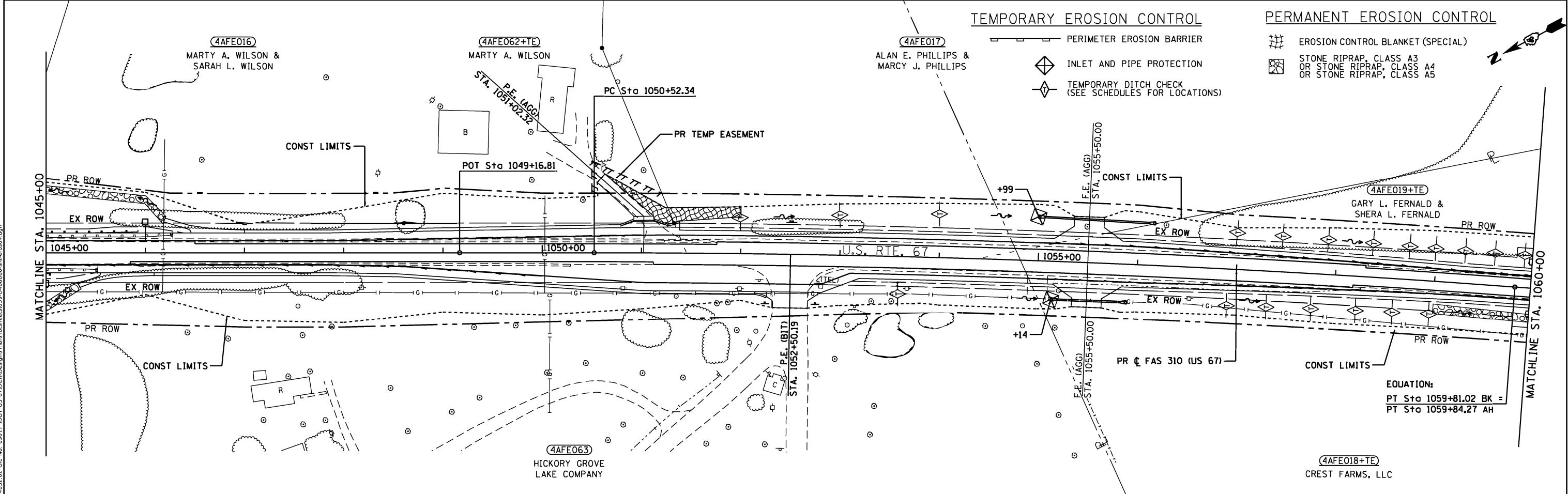
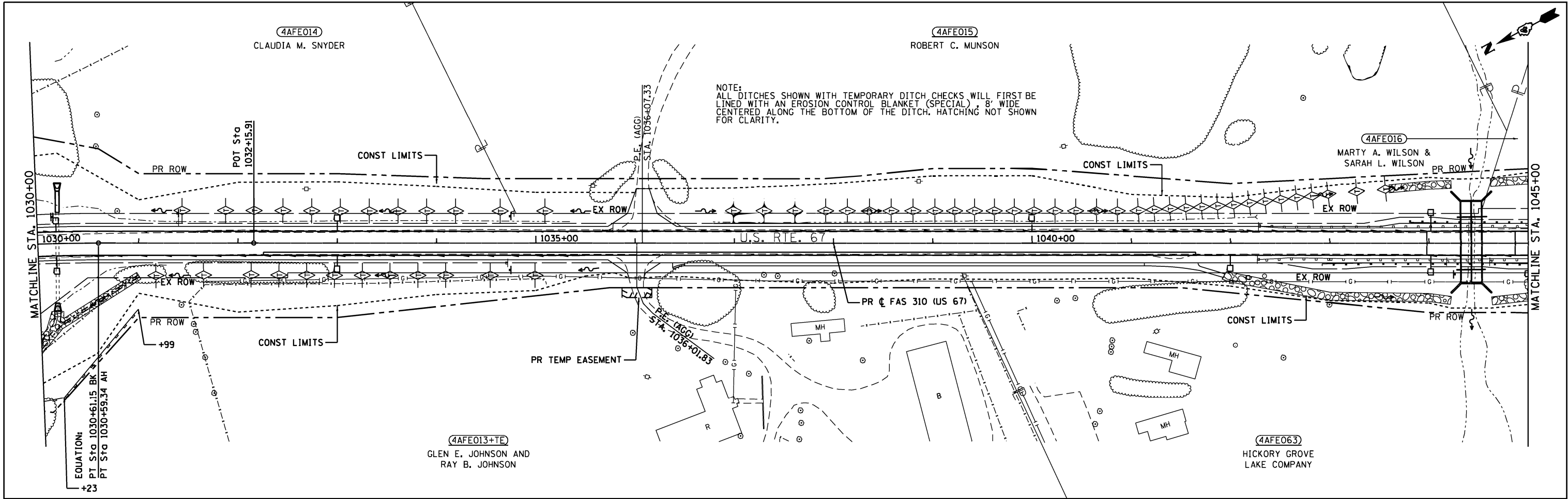
EFK Moen
Civil Engineering Design

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PLOT DATE = 3/22/2023	CHECKED - SLD	REVISED -
	DATE - 3/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL			
SCALE: 1"=50'	SHEET 3 OF 11 SHEETS	STA. 1002+00 TO STA. 1030+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	119
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



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EFK Moen
Civil Engineering Design

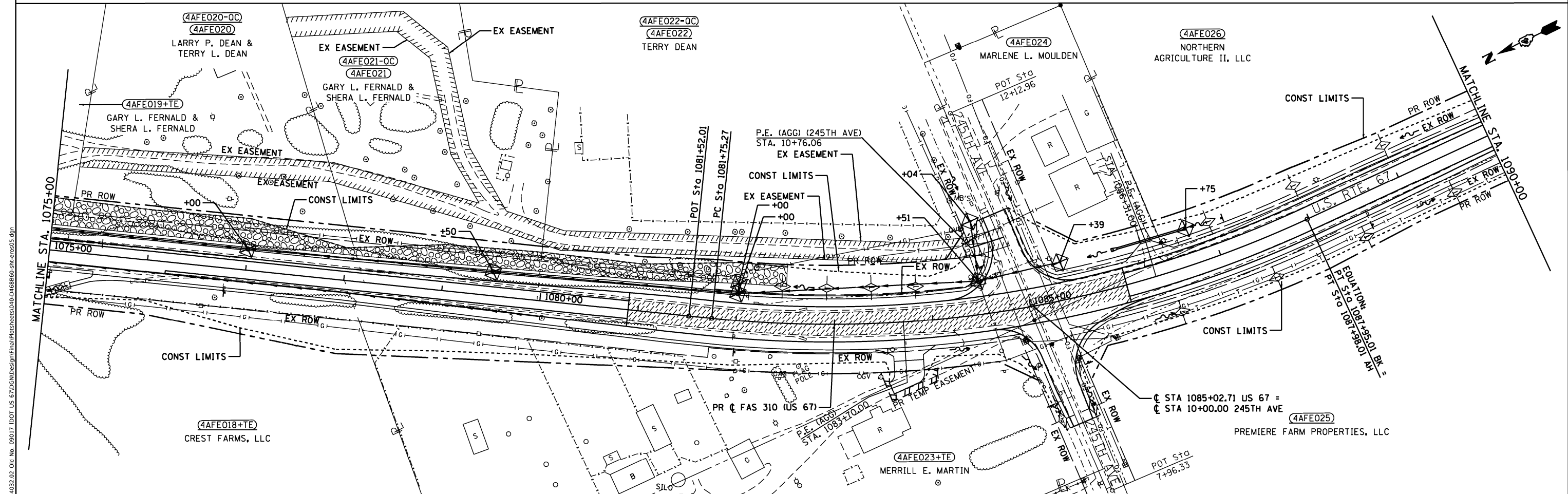
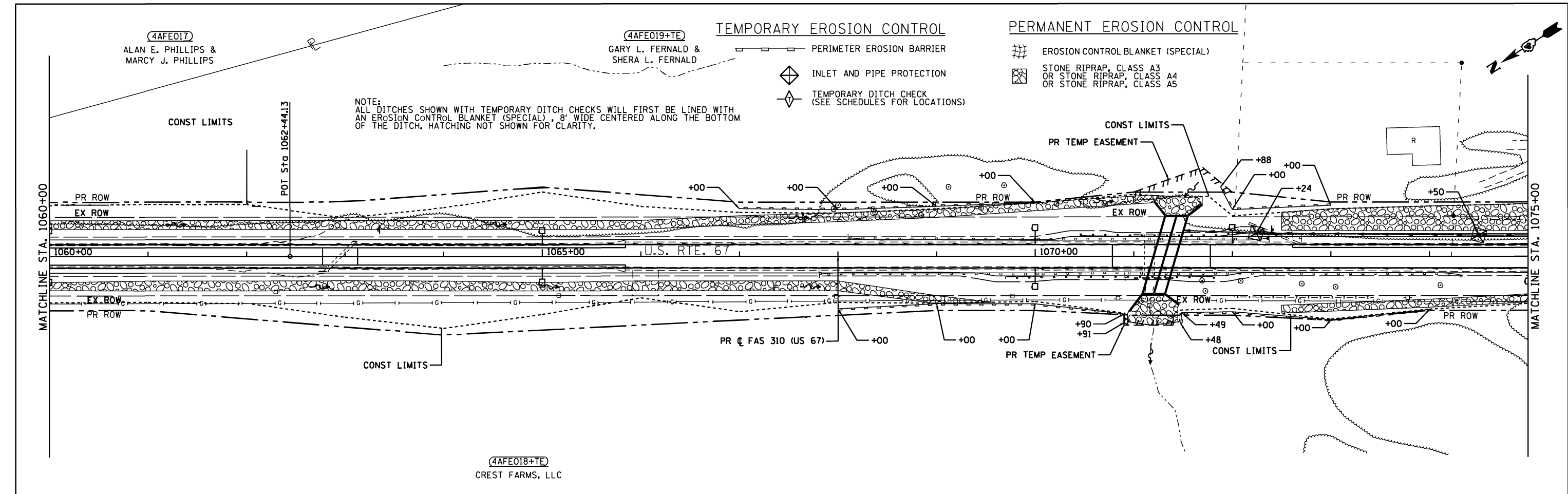
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	DATE - 3/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

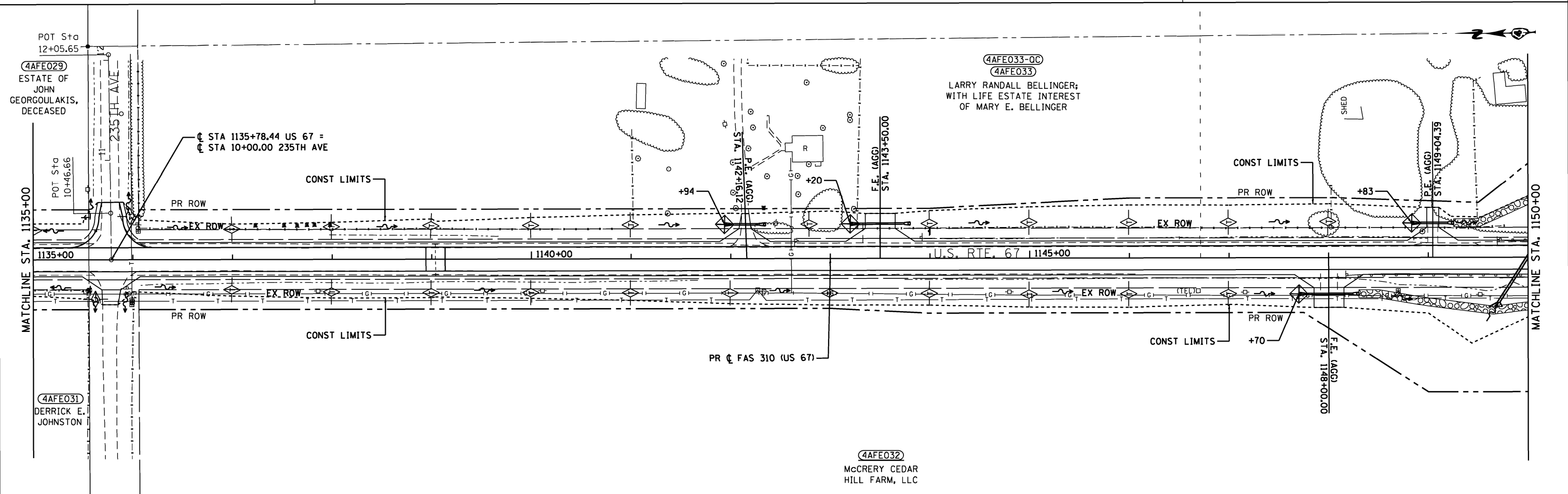
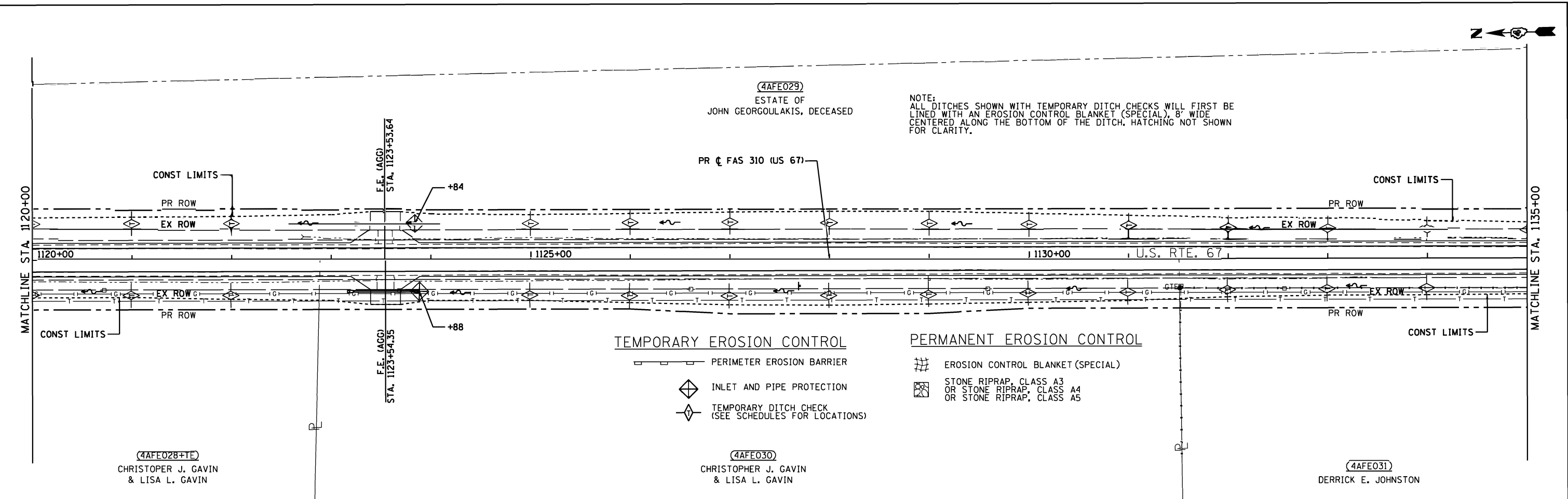
EROSION AND SEDIMENT CONTROL

SCALE: 1"=50' SHEET 4 OF 11 SHEETS STA. 1030+00 TO STA. 1060+00

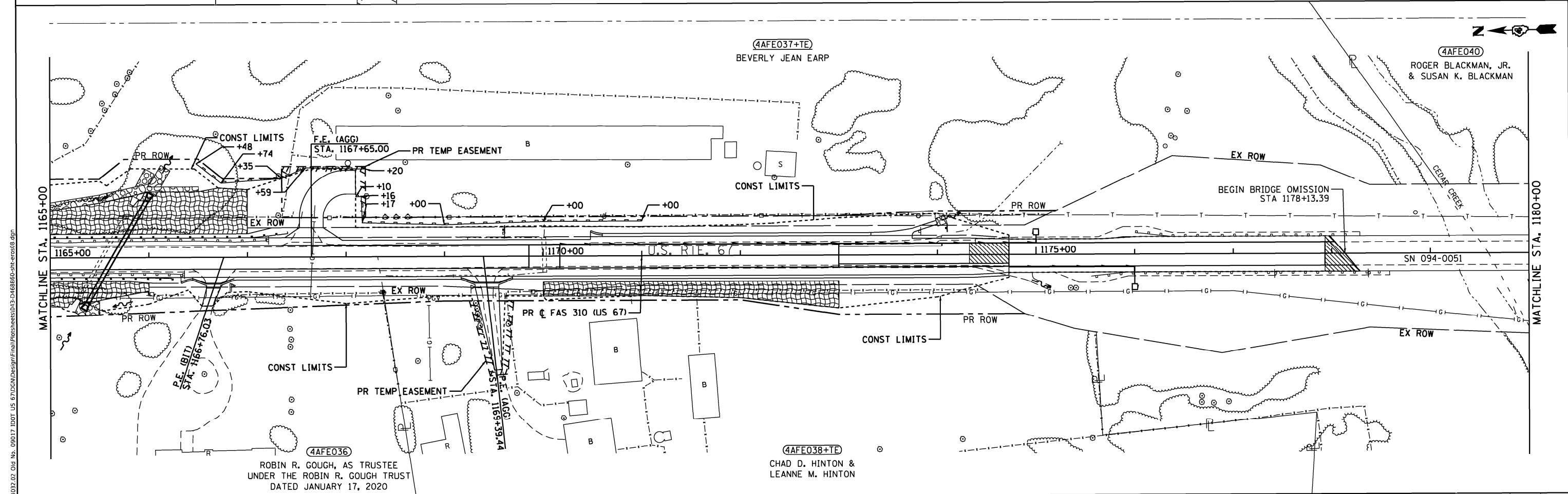
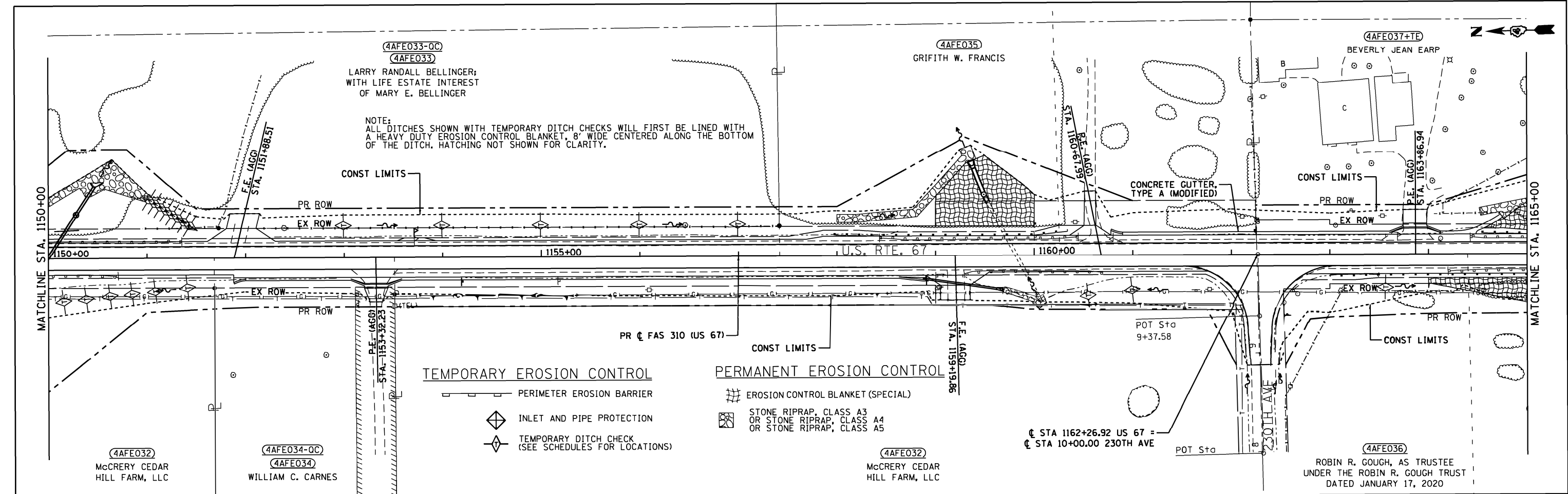
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CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

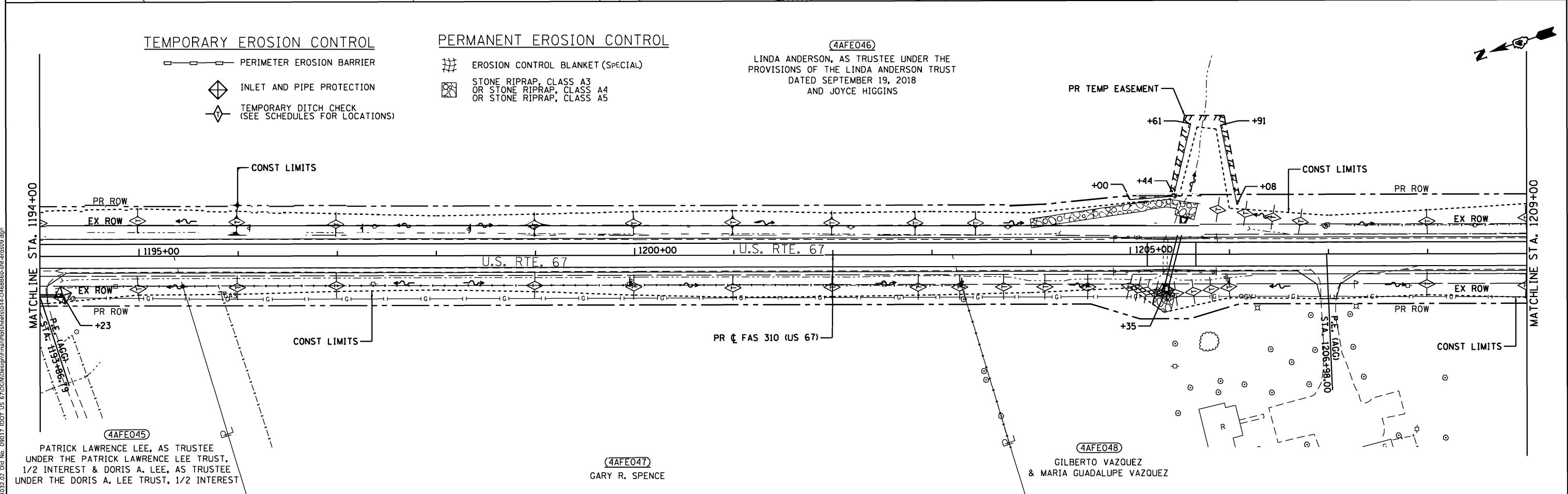
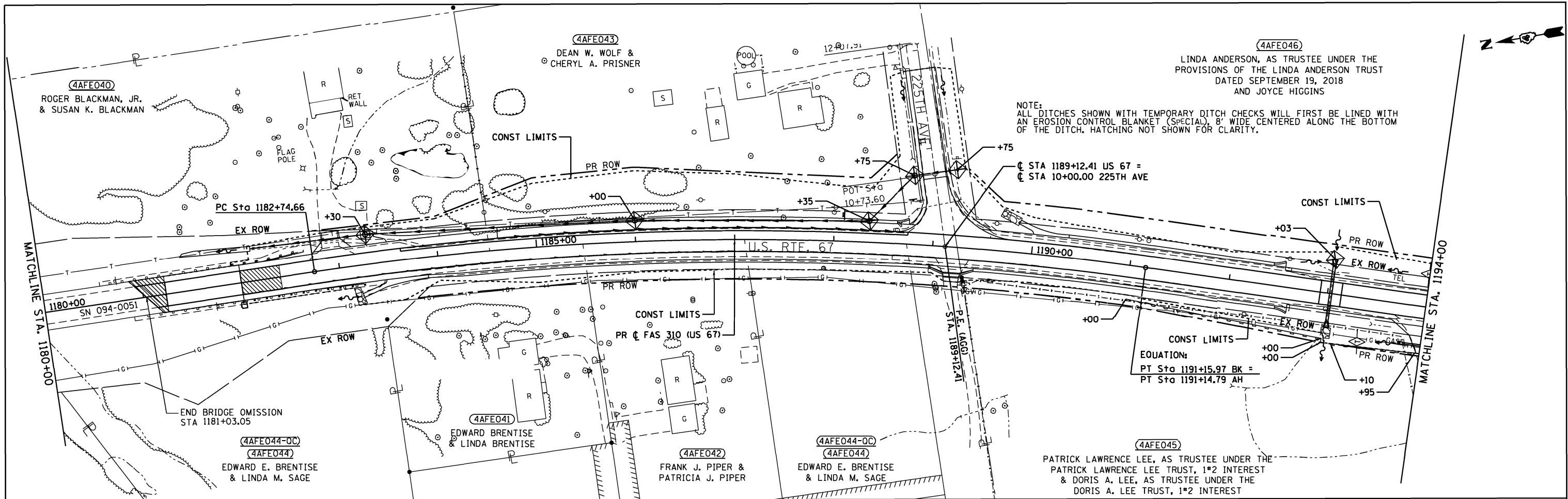


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EFK♦Moen Civil Engineering Design	USER NAME = ZWaters	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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						ILLINOIS FED. AID PROJECT				
						CONTRACT NO. 68B60				





EFK Moen Civil Engineering Design	USER NAME = ZWaters	DESIGNED - JRD	REVIS'D -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 3/22/2023	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: 1"=50'

SHEET 9 OF 11 SHEETS

STA. 1180+00 TO STA. 1209+00

TEMPORARY EROSION CONTROL

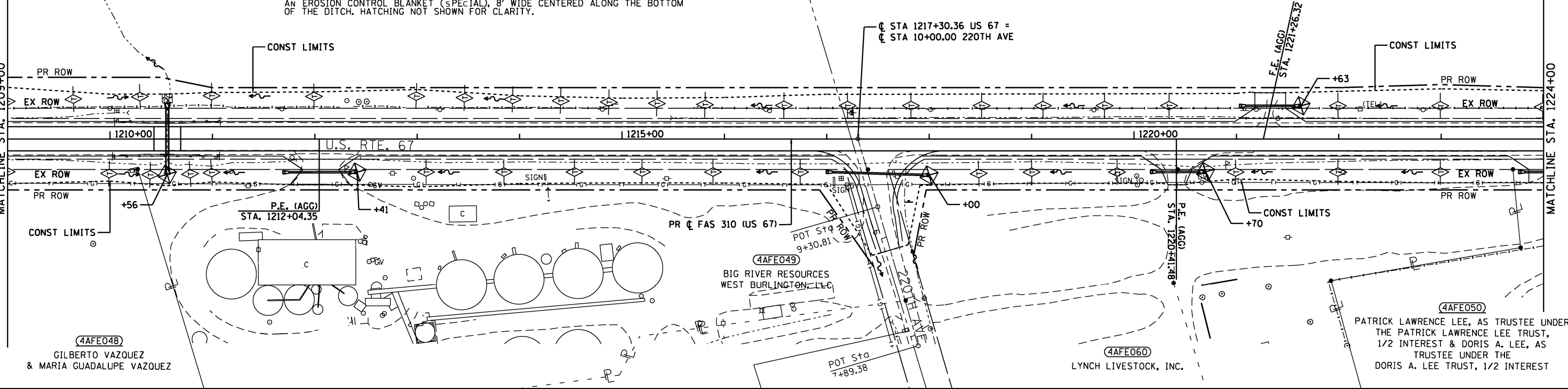
PERMANENT EROSION CONTROL

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

- EROSION CONTROL BLANKET (SPECIAL)
- STONE RIPRAP, CLASS A3 OR STONE RIPRAP, CLASS A4 OR STONE RIPRAP, CLASS A5

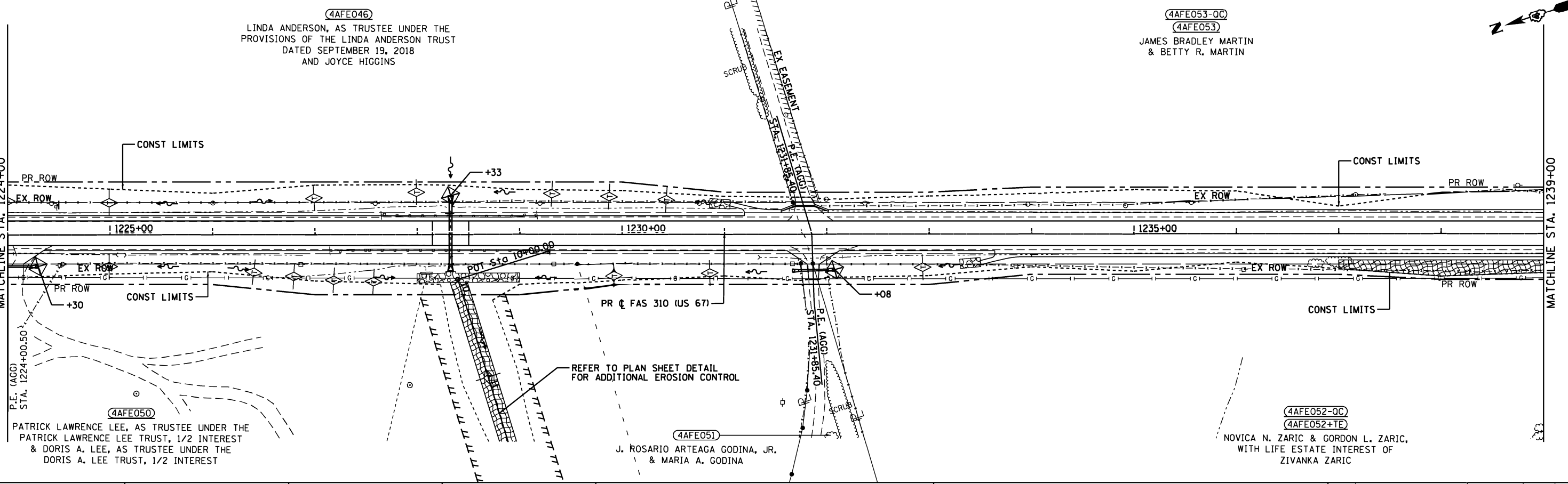
NOTE: ALL DITCHES SHOWN WITH TEMPORARY DITCH CHECKS WILL FIRST BE LINED WITH AN EROSION CONTROL BLANKET (SPECIAL), 8' WIDE CENTERED ALONG THE BOTTOM OF THE DITCH. HATCHING NOT SHOWN FOR CLARITY.

(4AFE046)
LINDA ANDERSON, AS TRUSTEE UNDER THE PROVISIONS OF THE LINDA ANDERSON TRUST DATED SEPTEMBER 19, 2018 AND JOYCE HIGGINS



(4AFE046)
LINDA ANDERSON, AS TRUSTEE UNDER THE PROVISIONS OF THE LINDA ANDERSON TRUST DATED SEPTEMBER 19, 2018 AND JOYCE HIGGINS

(4AFE053-OC)
(4AFE053)
JAMES BRADLEY MARTIN & BETTY R. MARTIN



EFK Moen
Civil Engineering Design

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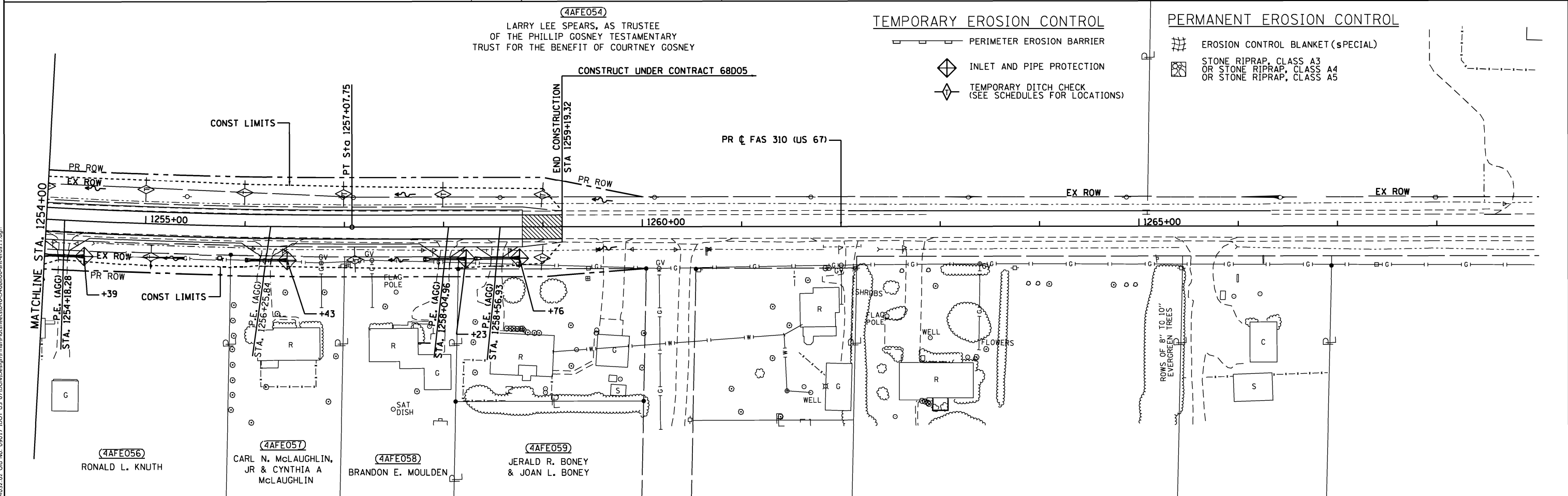
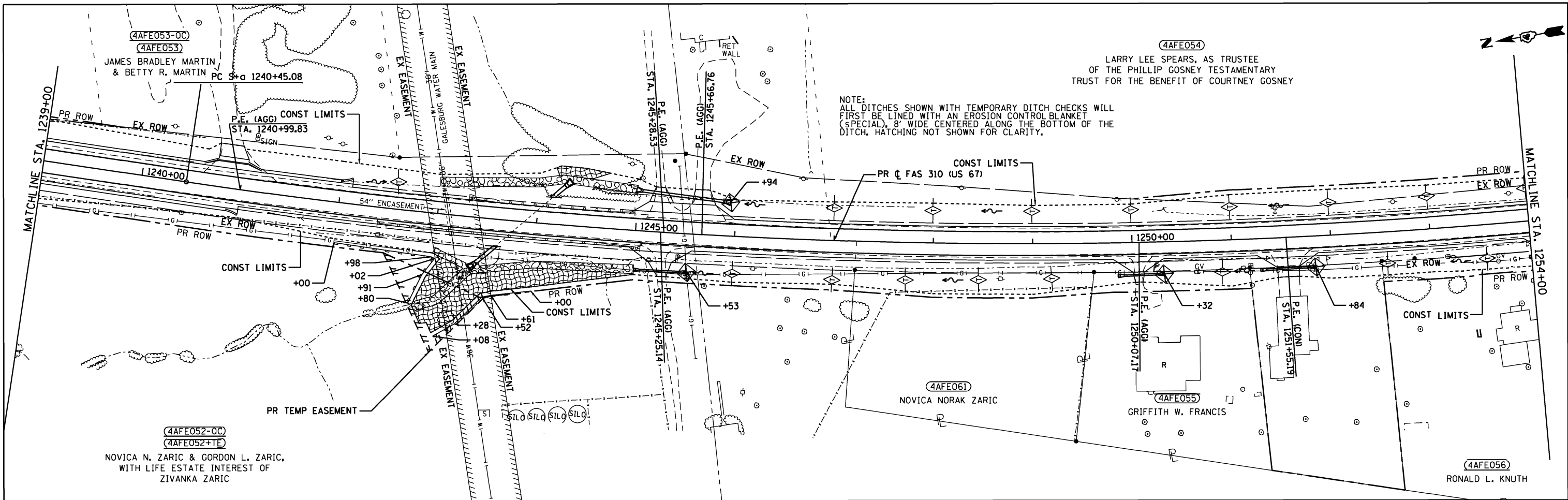
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL

SCALE: 1"=50' SHEET 10 OF 11 SHEETS STA. 1209+00 TO STA. 1239+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28R5-6,29R5-4	WARREN	277	126
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

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EFK♦Moen Civil Engineering Design	USER NAME = ZWaters	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE - 3/22/2023	REVISED -							SCALE: 1"=50'	SHEET 11 OF 11 SHEETS	STA. 1239+00 TO STA. 1269+00	ILLINOIS	FED. AID PROJECT

DRAINAGE SPECIFIC NOTES

1.

ALL STATIONS AND OFFSETS ARE MEASURED FROM THE CENTERLINE OF US 67 TO THE CENTER OF THE STRUCTURE, UNLESS OTHERWISE NOTED.
2.

PIPE LENGTHS SHOWN ARE CONSIDERED PAY LENGTHS (INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE).

4AFE007

WILLIAM L. McCRERY

4AFE009

JOHN L. WINBIGLER

4AFE007

WILLIAM L. McCRERY

4AFE010

JAMES R. PURLEE

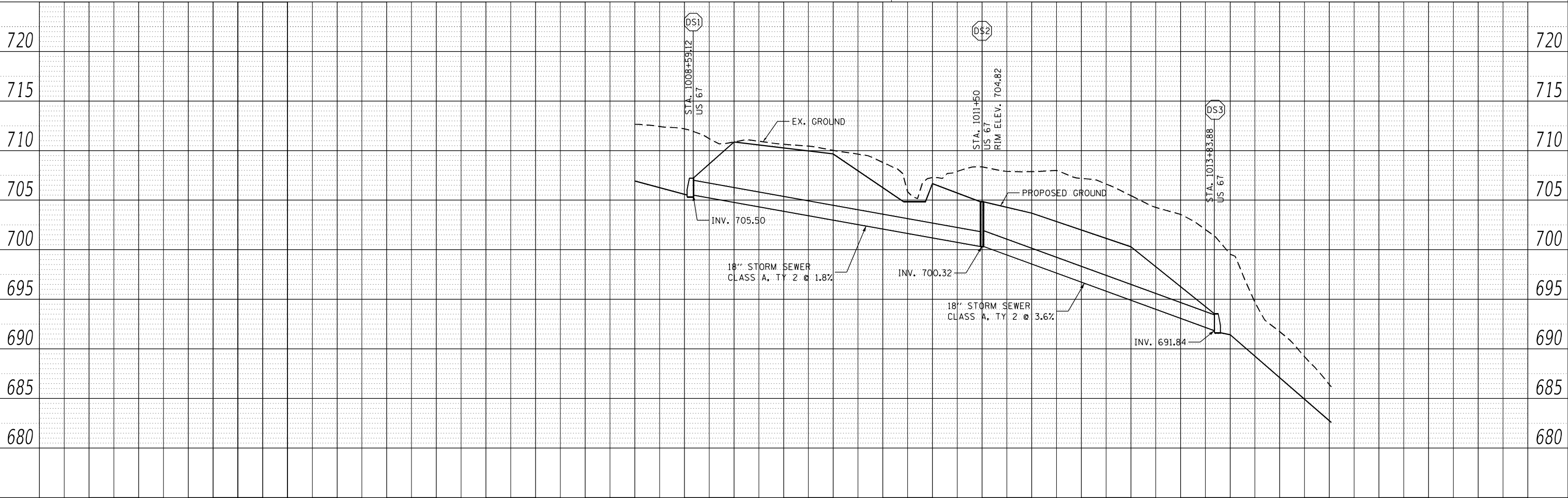
4AFE006

MARILYN J. RONEY AND
ROBERT D. RONEY

4AFE008+TE

FRANCIS W. GRIFFITH

STRUCTURE NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
DS1	1008+59.12	33.14' RT	N/A	705.50	PRC FLARED END SECTION, 18"
DS2	1011+50.00	33.81' RT	704.82	700.32	INLETS, TYPE B, TYPE 8 GRATE
DS3	1013+83.88	34.35' RT	N/A	691.84	PRC FLARED END SECTION, 18"



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Civil Engineering Design

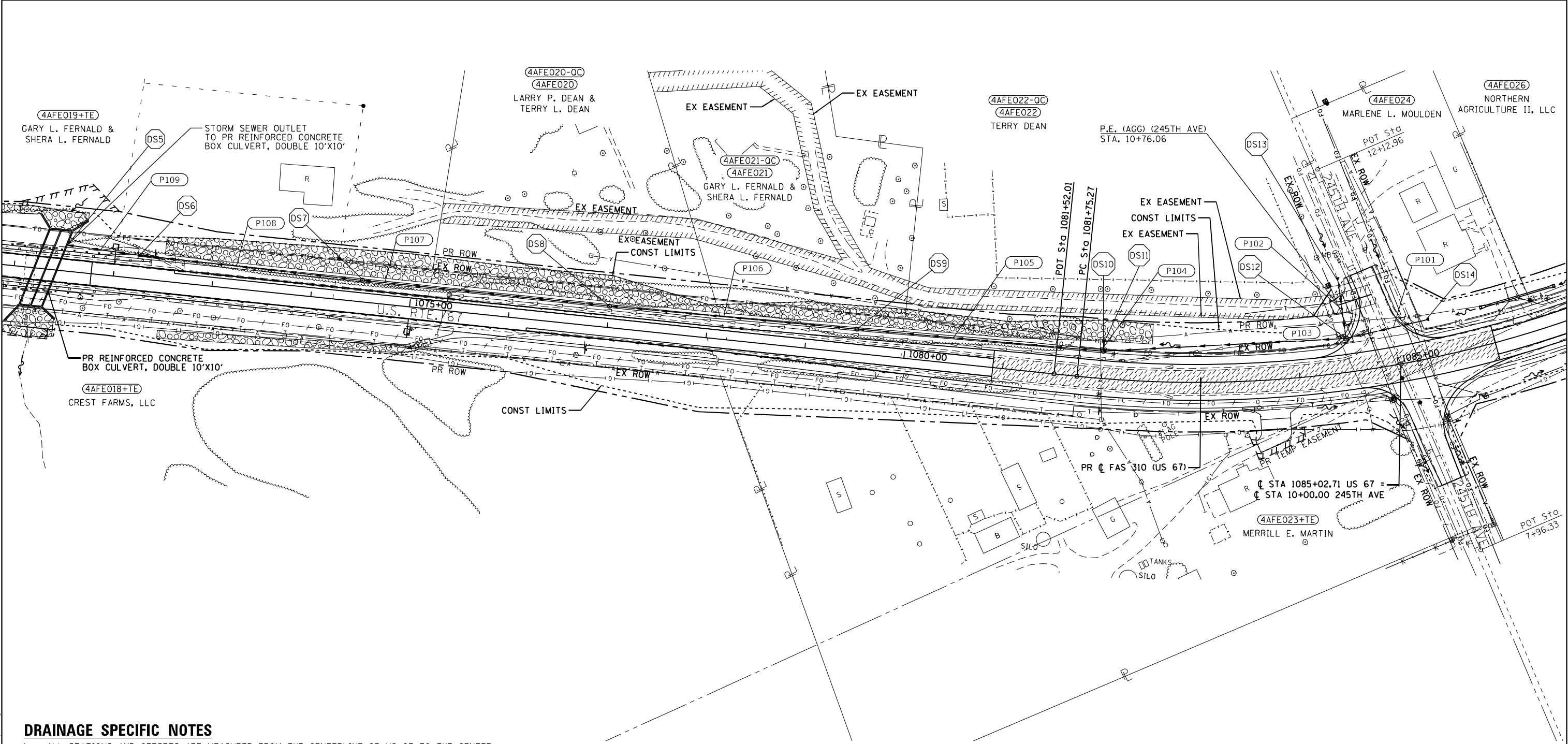
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PLOT DATE = 3/22/2023	DATE - 3/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE
PLAN & PROFILE

SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. 1002+00 TO STA. 1017+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	128
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



DRAINAGE SPECIFIC NOTES

- ALL STATIONS AND OFFSETS ARE MEASURED FROM THE CENTERLINE OF US 67 TO THE CENTER OF THE STRUCTURE, UNLESS OTHERWISE NOTED.
- PIPE LENGTHS SHOWN ARE CONSIDERED PAY LENGTHS (INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE).

STRUCTURE NUMBER	STATION	OFFSET	RIM ELEV.	INVERT ELEV.	STRUCTURE TYPE
DS14	1085+36.00	38.5' LT	N/A	707.36	PRC FLARED END SECTION, 18"
DS13	1084+51.07	92.39' LT	N/A	710.25	PRC FLARED END SECTION, 18"
DS12	1084+51.30	33.90' LT	709.85	704.85	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 9 FRAME AND GRATE
DS11	1082+00.00	37.59' LT	705.04	700.54	INLETS, TYPE B, TYPE 8 GRATE
DS10	1082+00.00	27.50' LT	705.36	700.36	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE
DS9	1079+50.00	24.24' LT	697.28	692.28	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE
DS8	1077+00.00	21.5' LT	686.78	681.78	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE
DS7	1074+50.00	21.32' LT	675.50	667.50	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE
DS6	1072+24.19	23.42' LT	667.24	659.24	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 9 FRAME AND GRATE
DS5	1071+72.23	53.50' LT	656.00	654.00	DOUBLE 10'X10' REINFORCED CONCRETE BOX CULVERT

PIPE NUMBER	DESCRIPTION	LENGTH	SLOPE
P101	STORM SEWERS, CLASS A, TYPE 2 - 18"	79.8'	2.50%
P102	STORM SEWERS, CLASS A, TYPE 2 - 18"	56.2'	8.70%
P103	STORM SEWERS, CLASS A, TYPE 2 - 24"	240.8'	1.90%
P104	STORM SEWERS, CLASS A, TYPE 2 - 15"	7.4'	2.40%
P105	STORM SEWERS, CLASS A, TYPE 2 - 24"	246.0'	3.30%
P106	STORM SEWERS, CLASS A, TYPE 2 - 24"	246.9'	4.30%
P107	STORM SEWERS, CLASS A, TYPE 2 - 24"	246.9'	5.80%
P108	STORM SEWERS, CLASS A, TYPE 2 - 24"	222.7'	3.70%
P109	STORM SEWERS, CLASS A, TYPE 2 - 24"	71.7'	7.30%

EFK Moen
Civil Engineering Design

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	DRAWN - ZJW	REVISED -
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PLOT DATE = 3/22/2023	DATE - 3/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE
PLAN

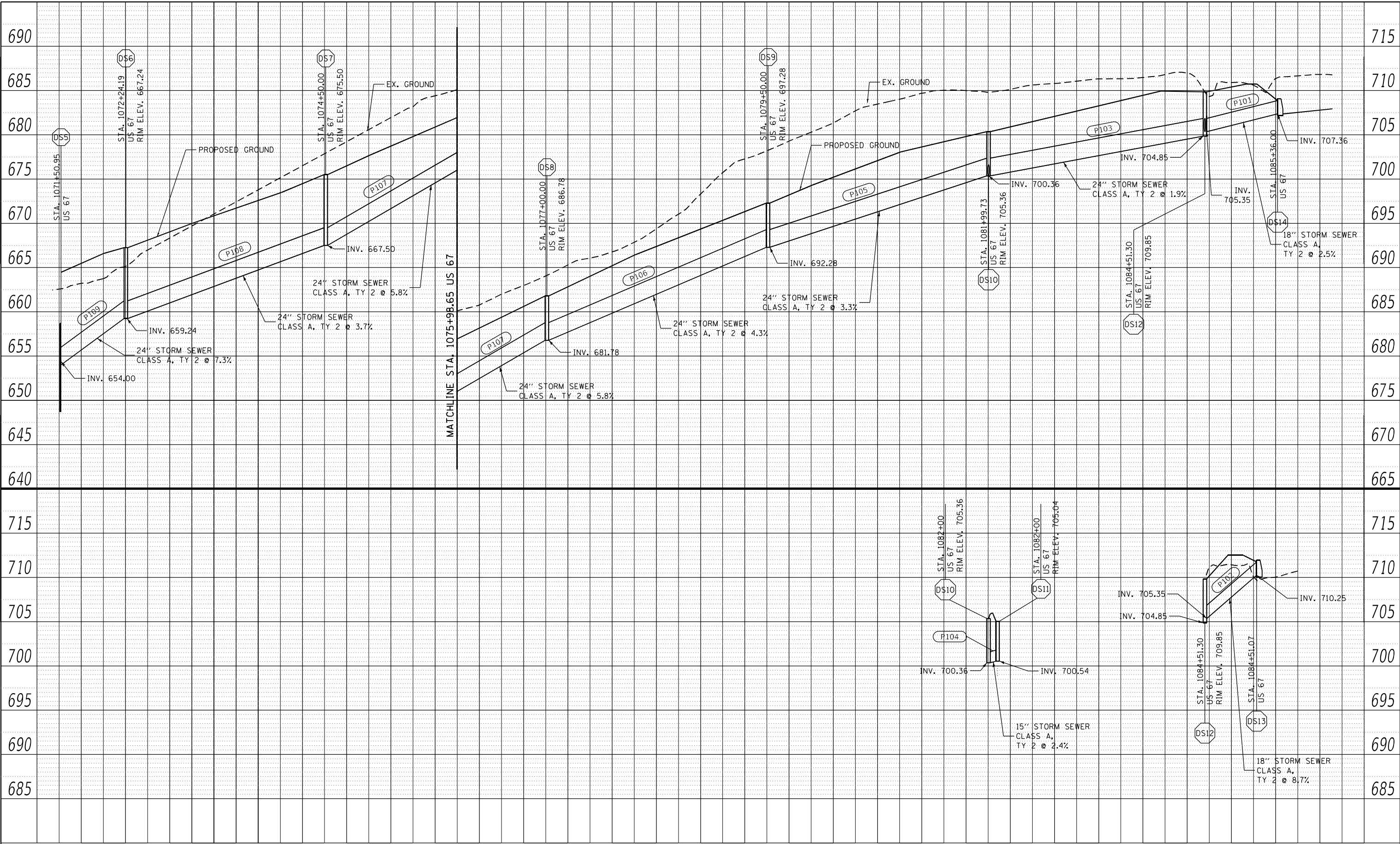
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	129
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED PLOTTED	ALIGNMENT CHECKED BY	DATE
NOTE BOOK NO.			

PROFILE	SURVEYED PLOTTED	GRADES CHECKED BY	DATE
NOTE BOOK NO.			

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EFK•Moen
Civil Engineering Design

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE
PROFILE

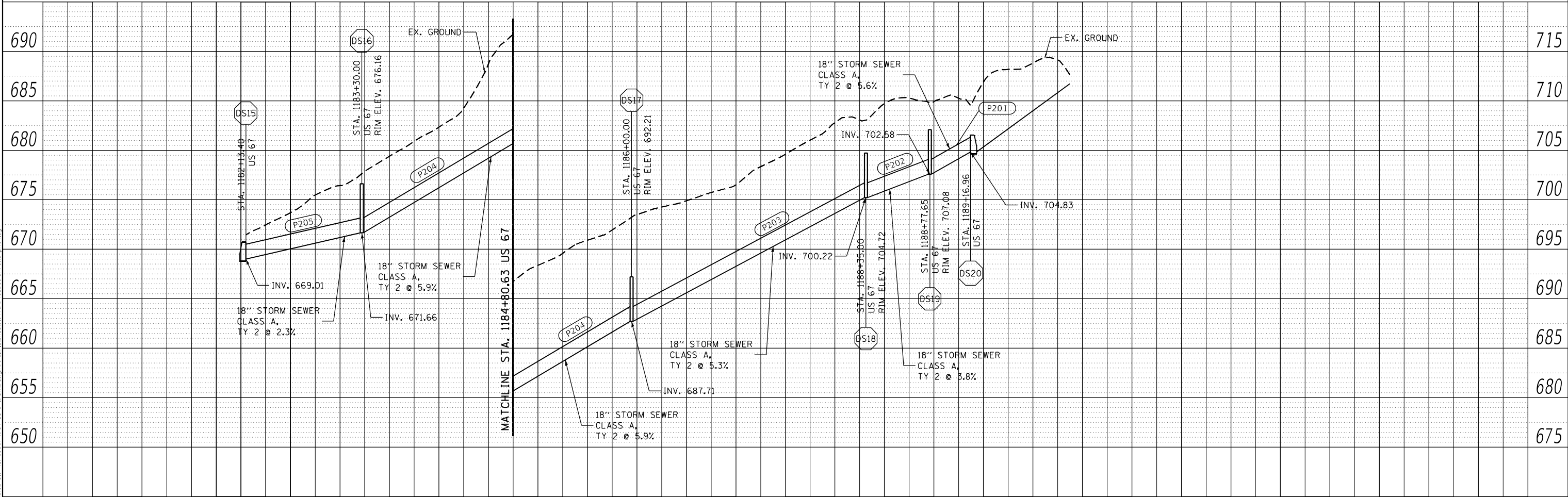
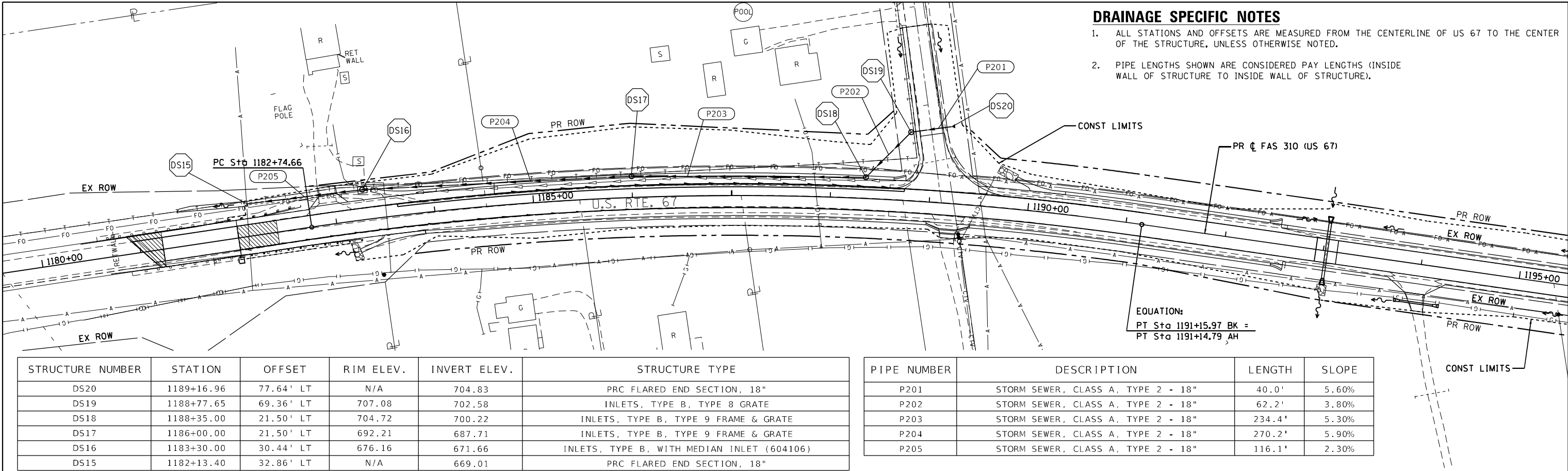
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	130
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

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	BY	
NOTE BOOK	PLOTTED	
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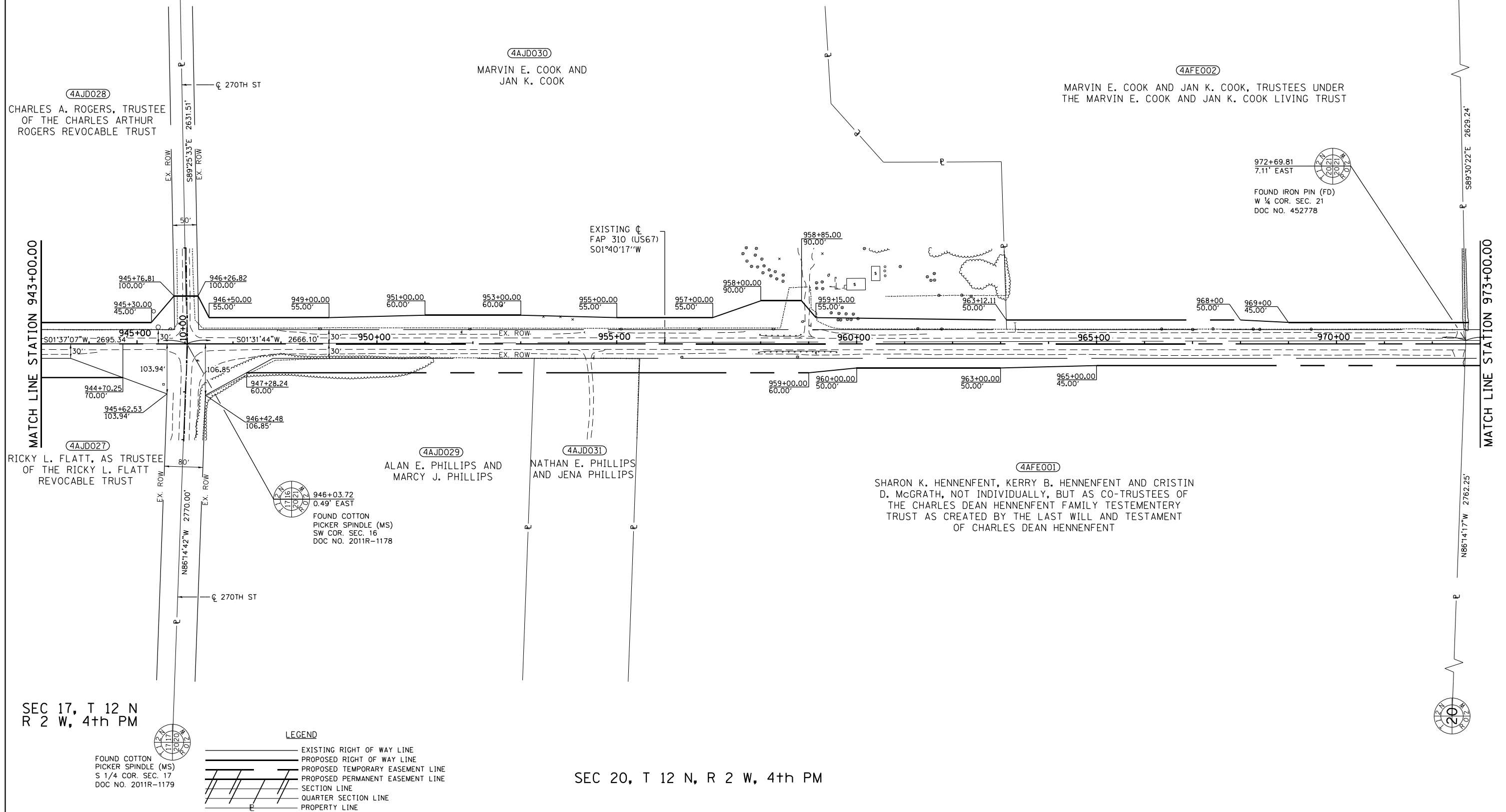
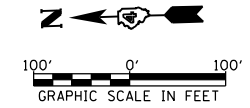
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NOTE BOOK	PLOTTED	
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R 2 W, 4th PM

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



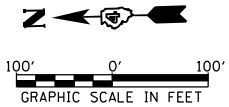
SEC 17, T 12 N
R 2 W, 4th PM

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

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILE\$		DRAWN -	REVISED -						310	28W-2, 29W-1; 28RS-6	WARREN/MERCER	277	132
	PLOT SCALE = 200.00 ' / in.	CHECKED -	REVISED -						29RS-4		CONTRACT NO. 68636		
Default	PLOT DATE = 4/24/2023	DATE -	REVISED -		SCALE: 1"=100'		SHEET 1 OF 12 SHEETS	STA. 943+00 TO STA. 973+00	ILLINOIS FED. AID PROJECT				

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

SEC 28, T 12 N
R 2 W, 4th PM



(4AFE003)
RAY LONDON COMPANY, L.L.C.

(4AFE007)
WILLIAM L. McCRERY

999+20.79
2.25' EAST
FOUND NAIL
IN ASPHALT (FD)
SW COR. SEC. 21
DOC NO. 2009R-1860

MATCH LINE STATION 973+00

MATCH LINE STATION 1003+00

EXISTING C
FAP 310 (US67)
S01°40'17"W

977+00.00 45.00'
978+00.00 50.00'
979+00.00 50.00'
980+00.00 45.00'

986+00.00 45.00' LT
987+00.00 50.00' LT
989+00.00 50.00' LT
992+00.00 45.00' LT
996+00.00 45.00' LT
997+00.00 50.00' LT
998+85.00 50.00' LT

998+96.49 65.00' LT
1001+00.00 50.00' LT
999+56.36 70.00' LT
999+70.00 50.00' LT
1002+00.00 53.00' LT

(4AFE004 + TE)
DAVID N. McCRERY, JR.,
DENNIS L. McCRERY AND
JOHN DOUGLAS MCCRERY

997+10.00 45.00' RT
997+25.00 135.00' RT
998+85.00 45.00' RT
997+75.00 45.00' RT
998+94.82 65.00' RT

999+70.00 50.00' RT
999+54.68 70.00' RT

(4AFE005 + TE)
MICHAEL S.
MACKEY

(4AFE006)
THOMPSON-RONEY FARMS, LLC

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

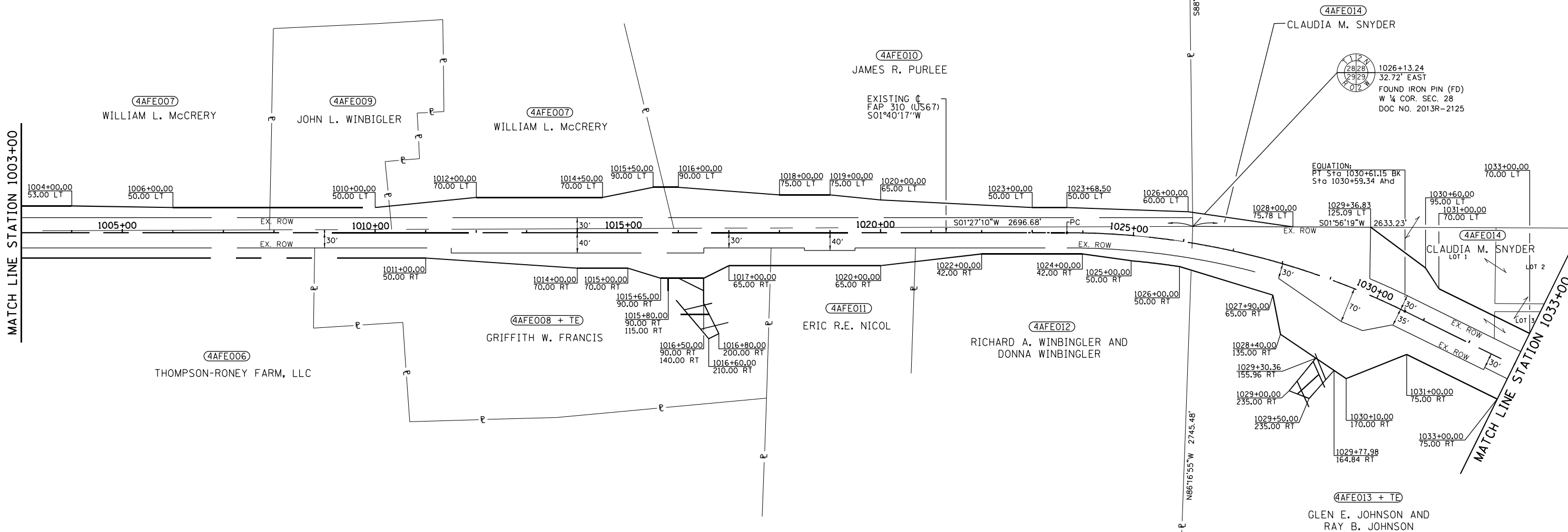
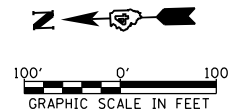
SEC 20, T 12 N, R 2 W, 4th PM

SEC 29, T 12 N
R 2 W, 4th PM

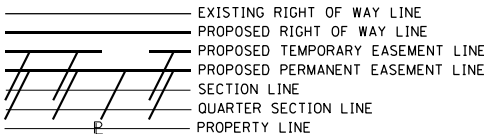
EFK•Moen, LLC
Civil Engineering Design

FILE NAME =	USER NAME = ZWaters	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*FILE\$		DRAWN-REB-	REVISED -					310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN/MERCER	277	133
Default	PLOT SCALE = 1"=100'	CHECKED -	REVISED -		SCALE: 1"=100' SHEET 2 OF 12 SHEETS STA. 973+00 TO STA. 1003+00			CONTRACT NO. 68B60				
	PLOT DATE = 4/24/2023	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

SEC 28, T 12 N, R 2 W, 4th PM



LEGEND



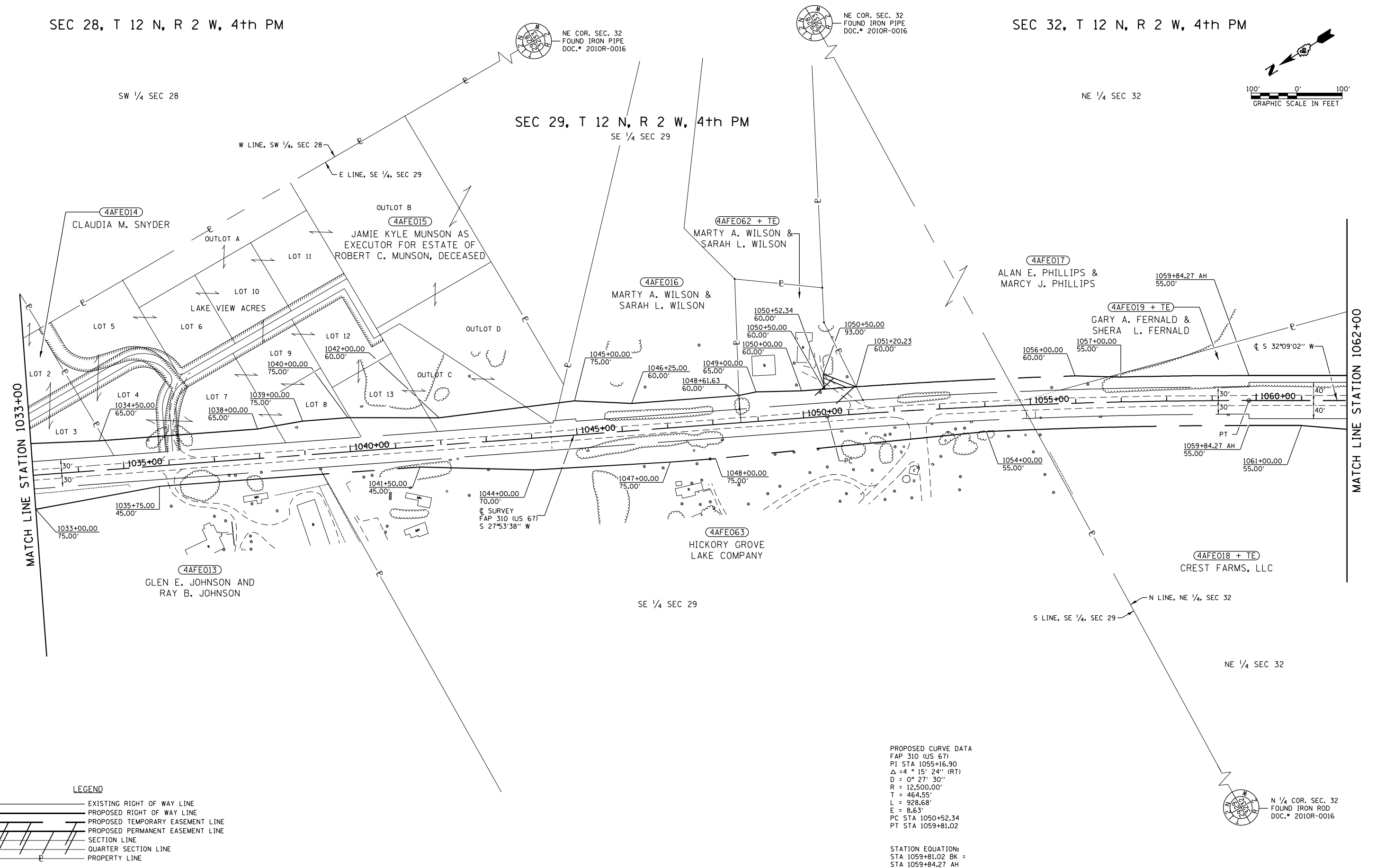
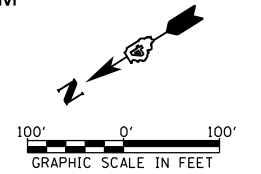
PROPOSED CURVE US67
PI STA. = 1027+21.00
 $\Delta = 3^\circ 47' 09''$ (RT)
 $D = 3^\circ 47' 09''$
 $R = 1,513.44'$
 $T = 352.50'$
 $L = 692.65'$
 $E = 40.51'$
P.C. STA. = 1023+68.50
P.T. STA. = 1030+61.15

SEC 29, T 12 N, R 2 W, 4th PM

EFK•Moen, LLC
Civil Engineering Design

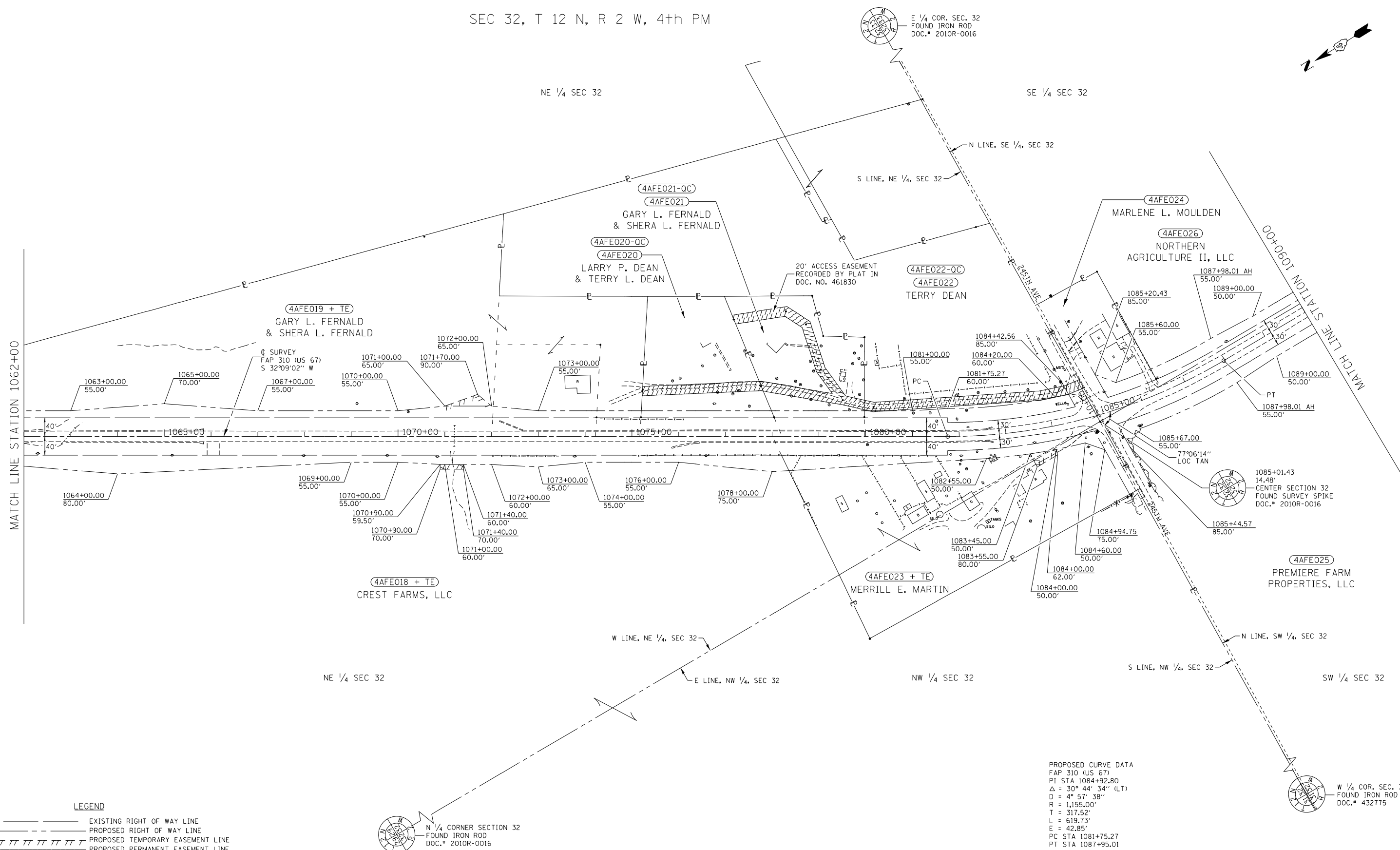
FILE NAME = \$FILE\$ Default	USER NAME = ZWaters	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							310	28W-2, 29W-1; 28RS-6	WARREN/MERCER	277	134
	PLOT SCALE = 200.00 ' / in.	CHECKED -								29RS-4				
PLOT DATE = 4/24/2023	DATE -	REVISED -	SCALE: 1"=100'		SHEET 3 OF 12 SHEETS	STA. 1003+00 TO STA. 1033+00		ILLINOIS FED. AID PROJECT						

SEC 32, T 12 N, R 2 W, 4th PM



FILE NAME	USER NAME = ZWaters	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Z:\14032.02 Old No. 09017 I00T US 67\DWG\Design\Final\Plotsheets\135-D468860-ROW.dgn	DRAWN -	REVISED -	310		28W-2, 29W-1; 28RS-6	WARREN	277	135				
PLOT SCALE = 200.00 ' / in.	CHECKED -	REVISED -	29RS-4		CONTRACT NO. 68B60							
PLOT DATE = 4/24/2023	DATE -	REVISED -	SCALE: 1" = 100'		SHEET NO. 4 OF 12 SHEETS	STA. 1033+00.00 TO STA. 1062+00.00						
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

SEC 32, 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

N 1/4 CORNER SECTION 32
FOUND IRON ROD
DOC. # 2010R-0016

STA 1085+02.71 FAP 310 (US 67) =
STA 10+00.00 245TH AVENUE

PROPOSED CURVE DATA
FAP 310 (US 67)
PI STA 1084+92.80
Δ = 30° 44' 34" (LT)
D = 4° 57' 38"
R = 1,155.00'
T = 317.52'
L = 619.73'
E = 42.85'
PC STA 1081+75.27
PT STA 1087+95.01

STATION EQUATION:
STA 1087+95.01 BK =
STA 1087+98.01 AH

100' 0' 100'
GRAPHIC SCALE IN FEET

FILE NAME V:\Transportation\2720\2720-002.dgn	USER NAME = TQuigg	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -						310	28W-2,29W-1+28RS-6,29RS-4	WARREN	277	136
	PLOT SCALE = 200.00' / in.	CHECKED -	REVISED -			PROJECT	JOB NO. R-94-005-13		CONTRACT NO. 68B60				
	PLOT DATE = 4/4/2023	DATE -	REVISED -		SCALE: 1" = 100'	SHEET NO. 5 OF 12 SHEETS	STA. 1062+00.00 TO STA. 1090+00.00					FED. ROAD DIST. NO.	ILLINOIS

SE COR. SEC. 32
FOUND IRON ROD
DOC.# 2010R-0016



NE 1/4 SEC 5

SE 1/4 | SEC 32

4AFE026
NORTHERN
AGRICULTURE II, LLC

4AFE027

JOYCE H. WALTON, AS TRUSTEE UNDER THE
JOYCE H. WALTON DECLARATION OF TRUST
DATED THE 18TH DAY OF SEPTEMBER, 2009

④ SURVEY
 FAP 310 (US 67)
 S 01°24'28" W

S LINE, SE 1/4, SEC 32 → | ← N LINE, NE 1/4, SEC 5

1111+51.15
154.97'
N 1/4 COR. SEC. 5
SET IRON ROD
DOC.# 2010R-0017

STEPHAN ANAST, AS
SUCCESSOR TRUSTEE

CHRISTOPHER J. GAVIN
& LISA L. GAVIN

NW 1/4 SEC 5

MATCH LINE STATION 1090+00

MATCH LINE STATION 1120+00

E LINE, SW 1/4, SEC 32

4AFE025
PREMIERE FARM
PROPERTIES, LLC

SW 1/4 SEC 32

STA 1111+47.00 FAP 310 (US 67) =
STA 10+00.00 240TH AVE EAST

STA 1111+49.17 FAP 310 (US 67) =
STA 10+00.00 240TH AVE WEST

NW COR. SEC. 5
FOUND IRON ROD
DOC.# 2010R-0017

100' 0' 100'

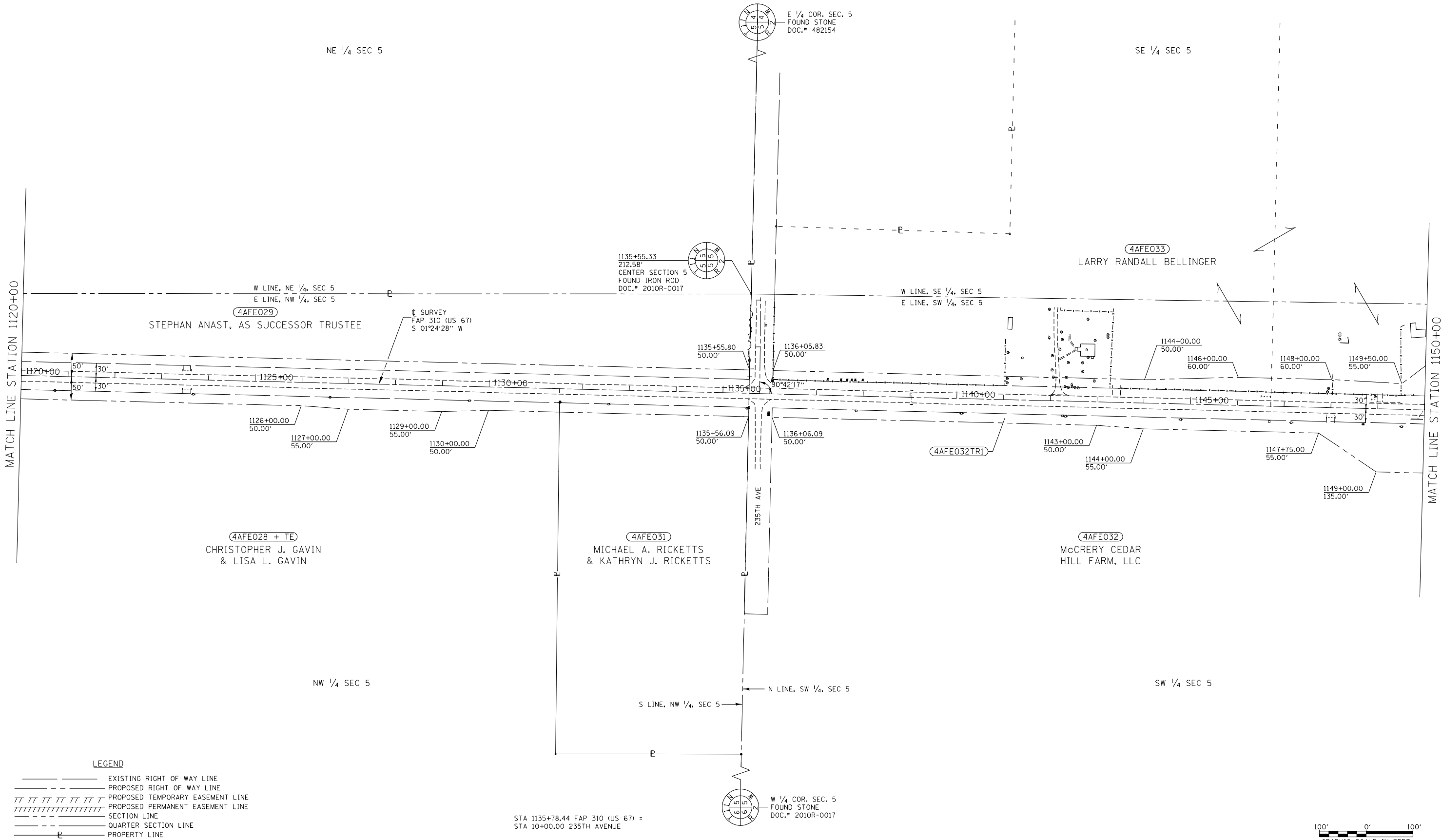
GRAPHIC SCALE IN FEET

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

[illegible]

SEC 5, T 11 N, R 2 W, 4th PM



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		DRAWN -	REVISED -
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	PLOT DATE = 4/4/2023	DATE -	REVISED -

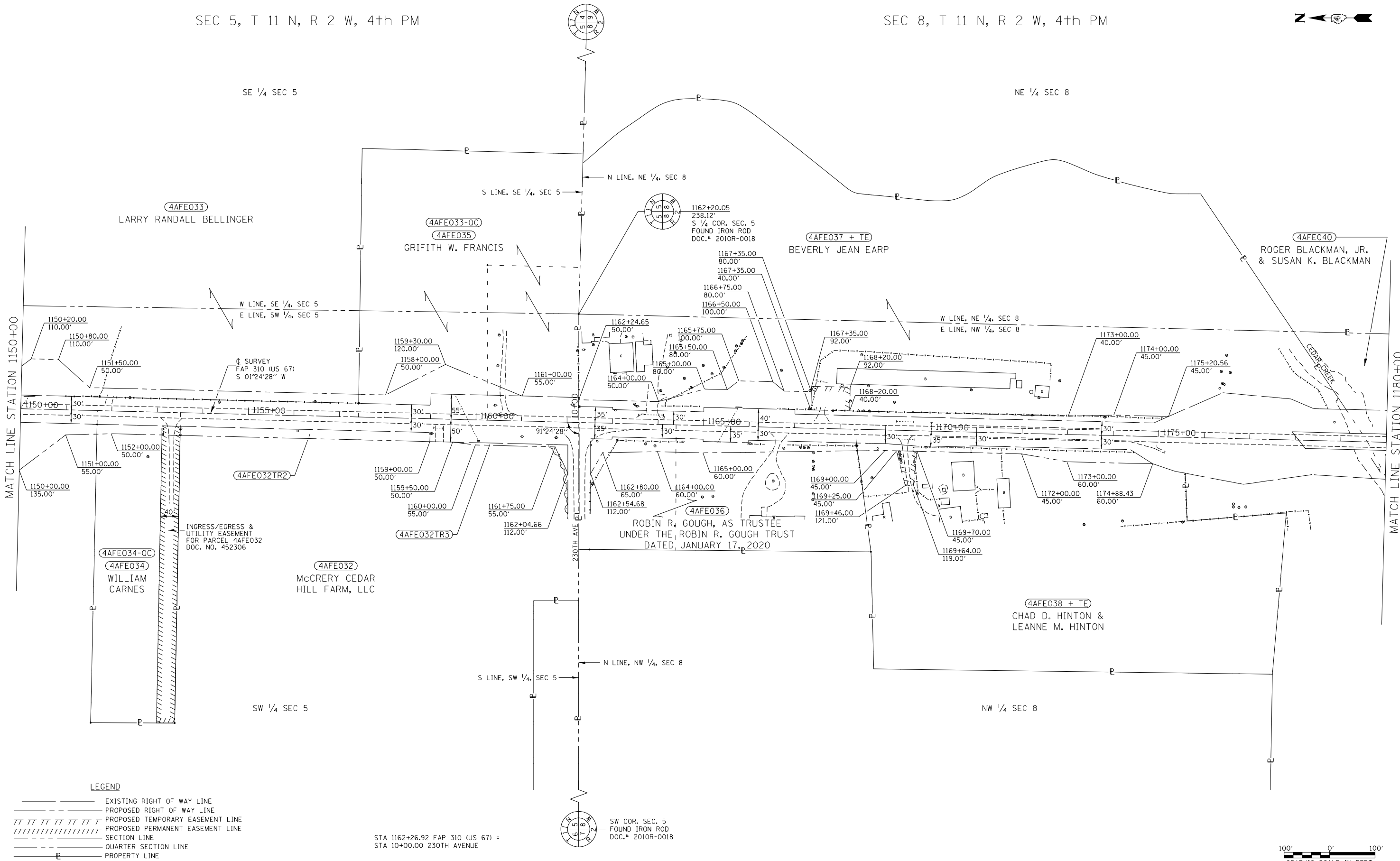
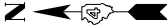
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS		
	PROJECT	JOB NO. R-94-005-13
SCALE: 1" = 100'	SHEET NO. 7 OF 12 SHEETS	STA. 1120+00.00 TO STA. 1150+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	138
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SEC 5, T 11 N, R 2 W, 4th PM

SEC 8, T 11 N, R 2 W, 4th PM



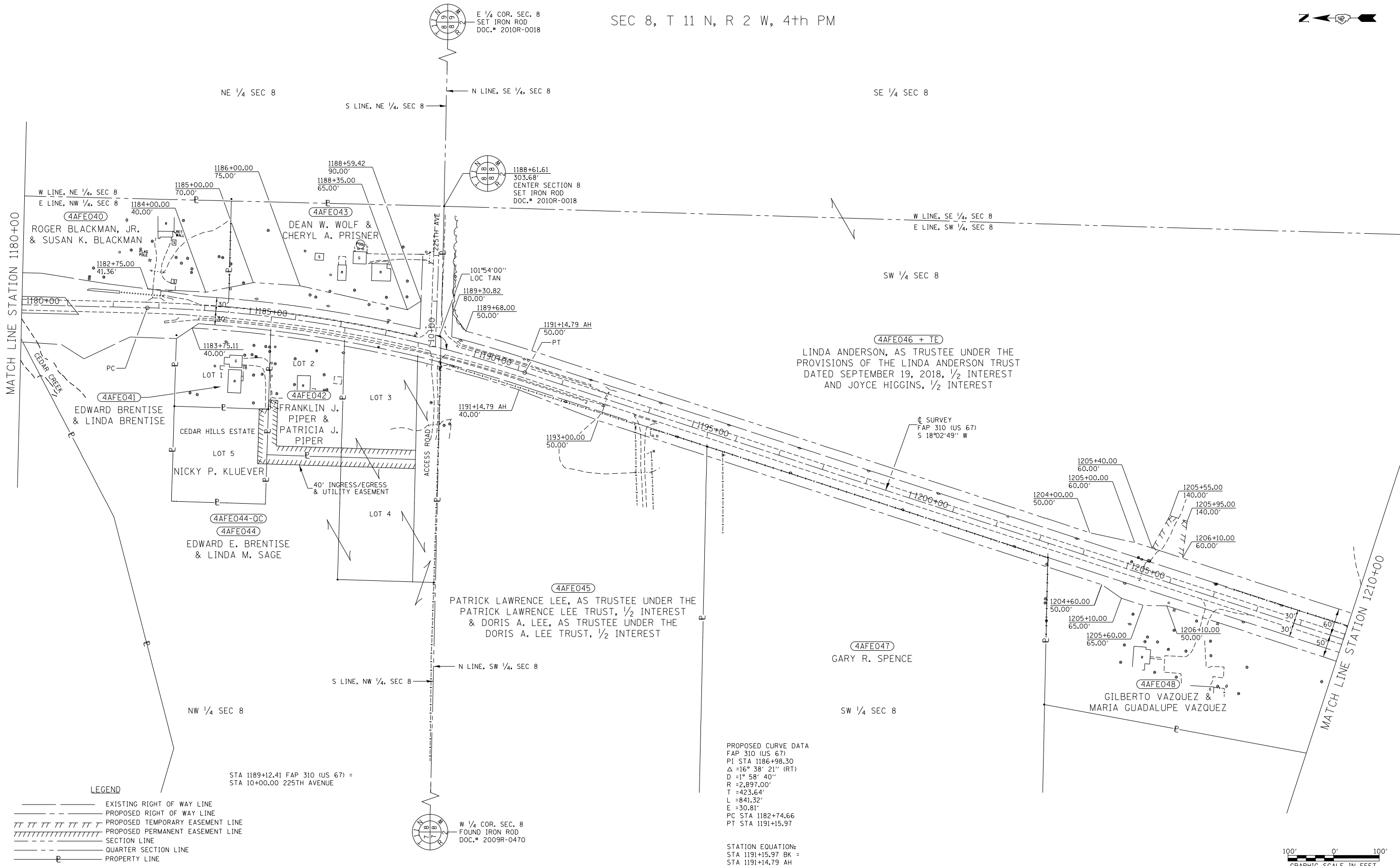
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		DRAWN -	REVISED -
	PLOT SCALE = 200.00' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/4/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS		
PROJECT	JOB NO. R-94-005-13	
SCALE: 1" = 100'	SHEET NO. 8 OF 12 SHEETS	STA. 1150+00.00 TO STA. 1180+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	139
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SEC 8, T 11 N, R 2 W, 4th PM



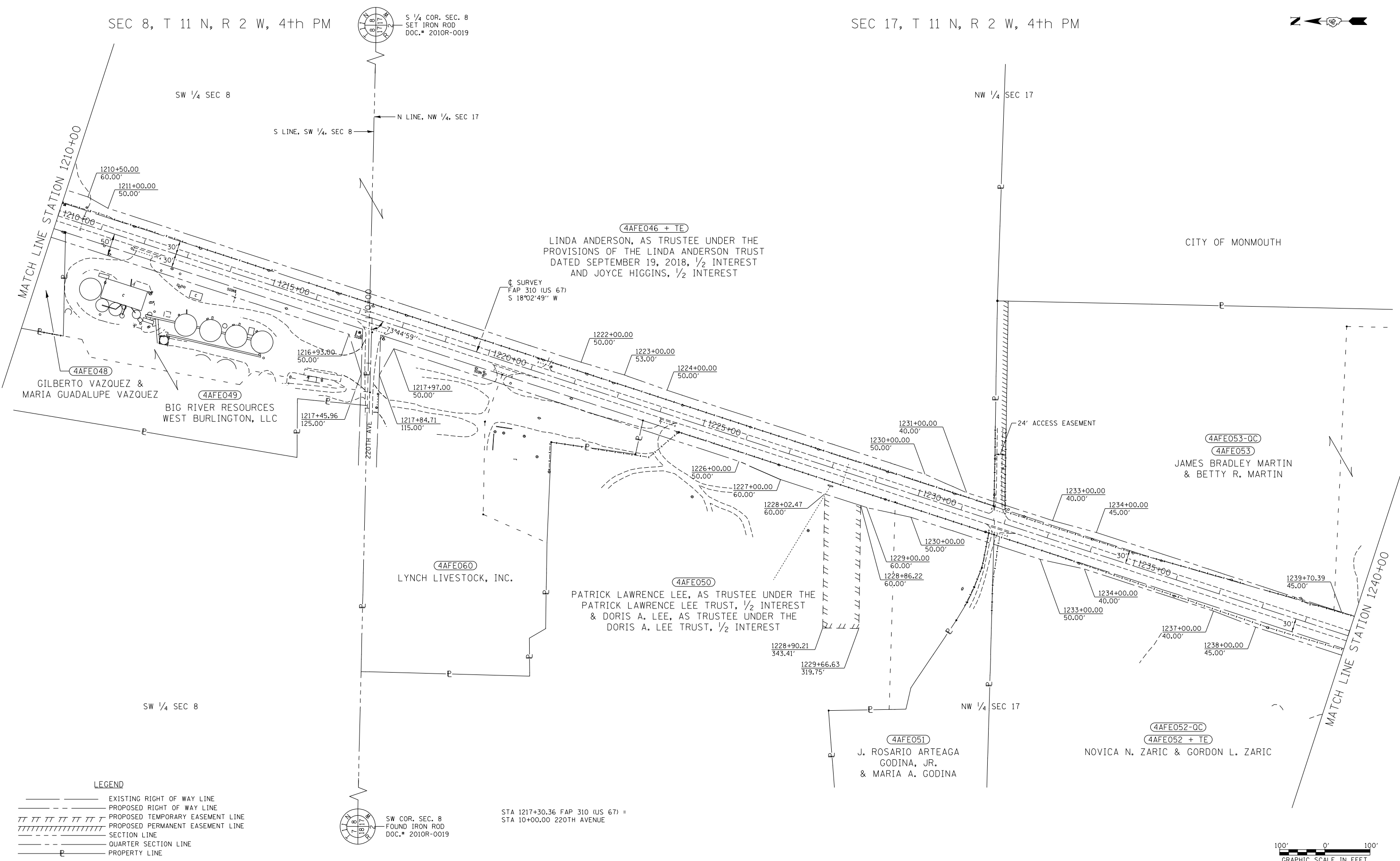
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		DRAWN -	REVISED -
	PLOT SCALE = 200.00' / in.	CHECKED -	REVISED -
	PLOT DATE = 4/4/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT			310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	140
JOB NO. R-94-005-13			CONTRACT NO. 68B60				
SCALE: 1" = 100'			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SEC 8, T 11 N, R 2 W, 4th PM

SEC 17, T 11 N, R 2 W, 4th PM

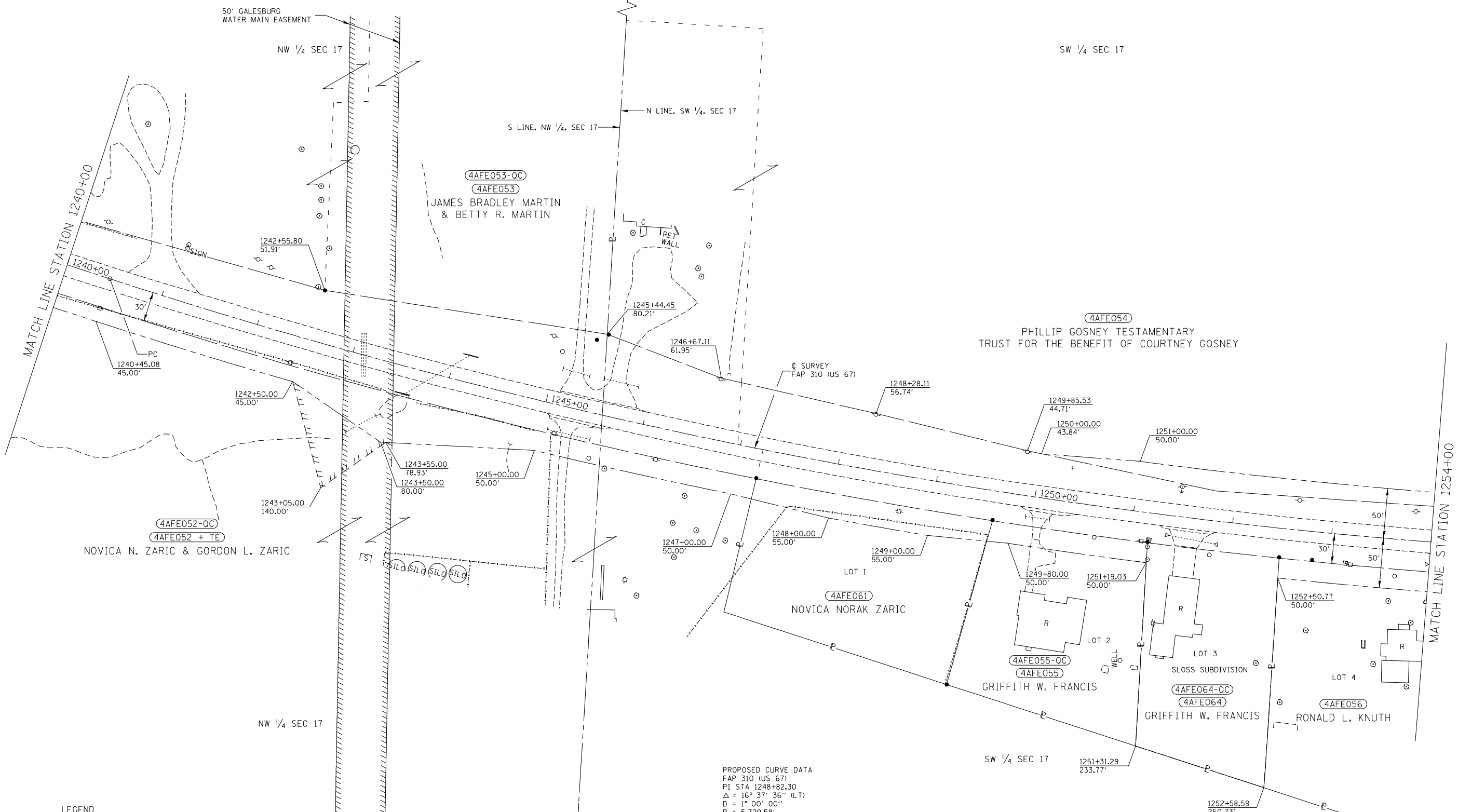


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		DRAWN -	REVISED -			310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	141			
	PLOT SCALE = 200.00' / in.	CHECKED -	REVISED -		PROJECT	JOB NO. R-94-005-13		CONTRACT NO. 68B60					
	PLOT DATE = 4/4/2023	DATE -	REVISED -		SCALE: 1" = 100'	SHEET NO. 10 OF 12 SHEETS	STA. 1210+00.00 TO STA. 1240+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CENTER SECTION 17
FOUND STONE
DOC.# 2010R-0019

SEC 17, T 11 N, R 2 W, 4th PM



PROPOSED CURVE DATA
FAP 310 (US 67)
PI STA 1248+82.30
 $\Delta = 16^\circ 37' 36''$ (LT)
D = 1° 00' 00"
R = 5,729.58'
T = 837.21'
L = 1,662.66'
E = 60.84'
PC STA 1240+45.08
PT STA 1257+07.75



W 1/4 COR. SEC. 17
FOUND IRON ROD
DOC.# 2010R-0019

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:
V:\Transportation\2720\2720-008.dgn

USER NAME = TQuigg

DESIGNED -

REVISED -

DRAWN -

REVISED -

PLOT SCALE = 100.00' / in.

CHECKED -

REVISED -

PLOT DATE = 4/4/2023

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

SCALE: 1" = 50'

PROJECT

JOB NO. R-94-005-13

SHEET NO. 11 OF 12 SHEETS

STA. 1240+00.00 TO STA. 1254+00.00

F.A.P.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

310

28W-2,29W-1;28RS-6,29RS-4

WARREN

277

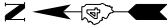
142

CONTRACT NO. 68B60

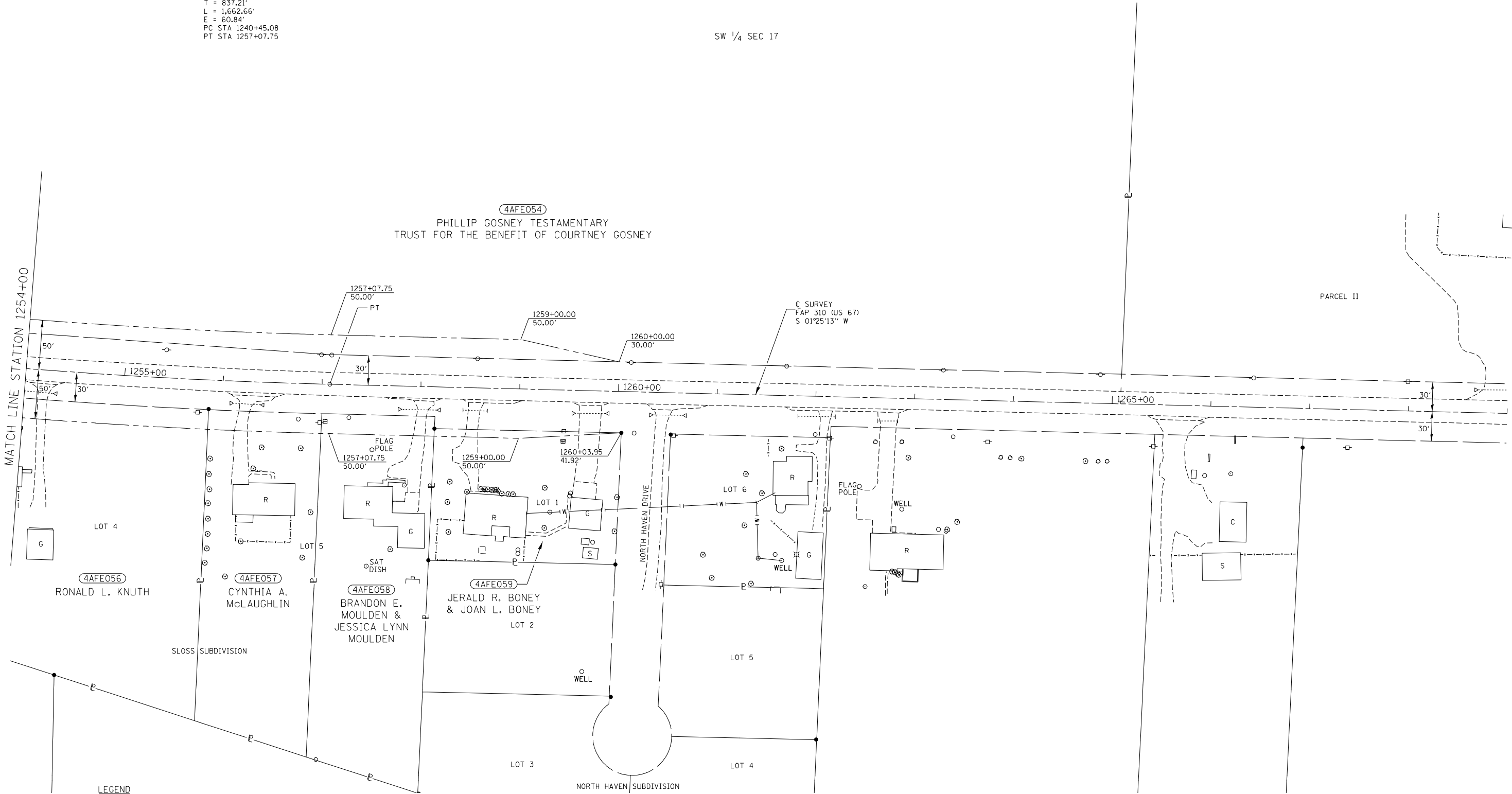
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PROPOSED CURVE DATA
FAP 310 (US 67)
PI STA 1248+82.30
Δ = 16° 37' 36" (LT)
D = 1° 00' 00"
R = 5,729.58'
T = 837.21'
L = 1,662.66'
E = 60.84'
PC STA 1240+45.08
PT STA 1257+07.75

SEC 17, T 11 N, R 2 W, 4th PM



SW 1/4 SEC 17

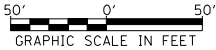


PARCEL II

LEGEND

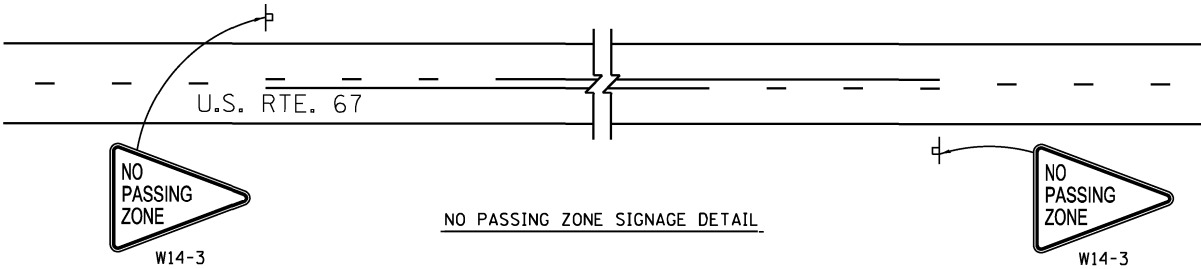
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- PROPERTY LINE

SW 1/4 SEC 17



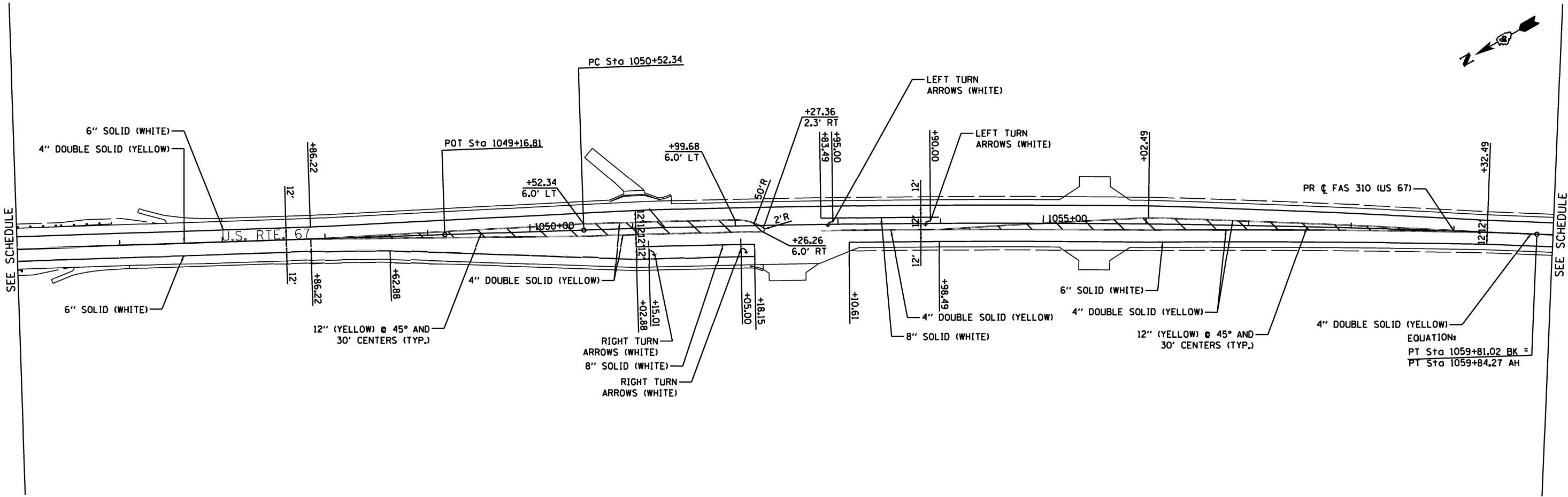
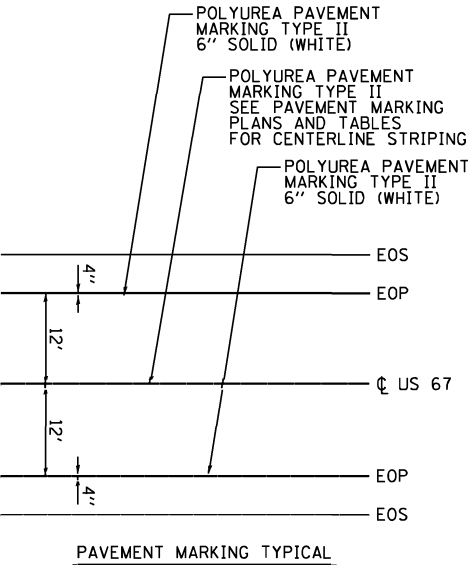
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	DRAWN -		REVIS	REVISED -				310	28W-2,29W-1;28RS-6,29RS-4	WARREN	277	143
	PLOT SCALE = 100.00' / in.		CHECKED -	REVISED -		PROJECT	JOB NO. R-94-005-13	CONTRACT NO. 68B60				
	PLOT DATE = 4/4/2023		DATE -	REVISED -		SCALE: 1" = 50'	SHEET NO. 12 OF 12 SHEETS	STA. 1254+00.00 TO STA. 1269+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

- NOTES:
1. OPERATIONS SHALL VERIFY ALL STRIPING LAYOUT PRIOR TO PLACEMENT.
 2. THE CONTRACTOR SHALL INSTALL STRIPING PER HIGHWAY STANDARD 780001, DISTRICT STANDARD 780001-D4, AND AS SHOWN ON THE PAVEMENT MARKING PLANS.
 3. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ALONG US-67 PER HIGHWAY STANDARD 781001.
 4. 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.
 5. ALL PAVEMENT MARKINGS SHALL BE POLYUREA PAVEMENT MARKING TYPE II AND SHALL BE GROOVED IN.
 6. SEE PAVEMENT MARKING SCHEDULE FOR STOP BAR LOCATIONS.
 7. THE CONTRACTOR SHALL FIELD VERIFY ALL NO PASSING ZONE LOCATIONS AND SIGN LOCATIONS PRIOR TO THE BEGINNING OF WORK.



US 67 PAVEMENT MARKING			
LOCATION			
CENTER LINE	955+00.00	960+00.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	960+00.00	998+00.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	998+00.00	1009+50.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	1009+50.00	1045+00.00	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	1060+00.00	1061+00.00	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	1061+00.00	1068+00.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	1068+00.00	1072+40.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	1072+40.00	1075+00.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	1105+00.00	1160+00.00	(YELLOW) 4" SKIP DASH CENTER LINE
CENTER LINE	1160+00.00	1171+45.00	(YELLOW) 4" SOLID CENTER LINE RIGHT SIDE, 4" SKIP DASH CENTER LINE LEFT SIDE
CENTER LINE	1171+45.00	1178+07.59	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	1181+09.37	1199+00.00	(YELLOW) 4" DOUBLE CENTER LINE
CENTER LINE	1199+00.00	1206+00.00	(YELLOW) 4" SOLID CENTER LINE LEFT SIDE, 4" SKIP DASH CENTER LINE RIGHT SIDE
CENTER LINE	1206+00.00	1259+19.32	(YELLOW) 4" SKIP DASH CENTER LINE

US 67 PAVEMENT MARKING SCHEDULE			
LOCATION			
LEFT SIDE	955+00.00	998+65.83	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	999+89.83	1045+00.00	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1060+00.00	1075+00.00	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1105+00.00	1111+05.94	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1111+89.96	1135+35.92	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1136+19.93	1177+97.79	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1180+99.57	1188+61.47	(WHITE) 6" SOLID WHITE LINE
LEFT SIDE	1189+81.11	1259+19.32	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	955+00.00	998+65.94	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	999+90.71	1045+00.00	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1060+00.00	1075+00.00	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1105+00.00	1111+01.31	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1111+90.41	1161+51.79	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1163+05.84	1178+17.38	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1181+19.16	1216+85.42	(WHITE) 6" SOLID WHITE LINE
RIGHT SIDE	1218+14.57	1259+19.32	(WHITE) 6" SOLID WHITE LINE



EFK Moen
Civil Engineering Design

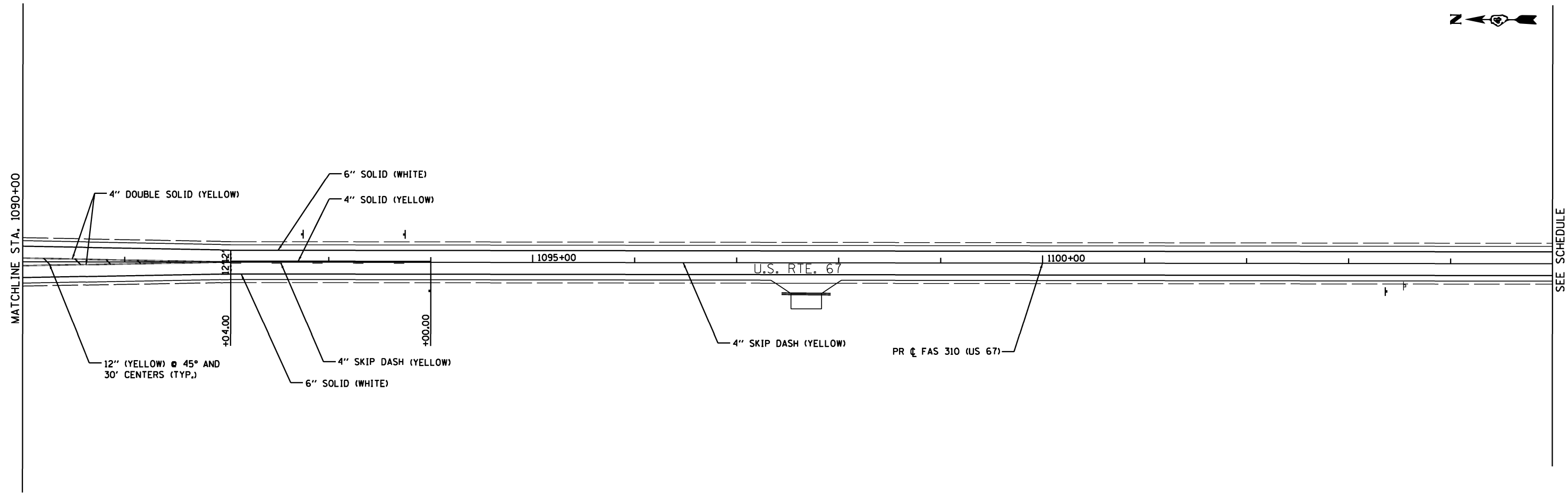
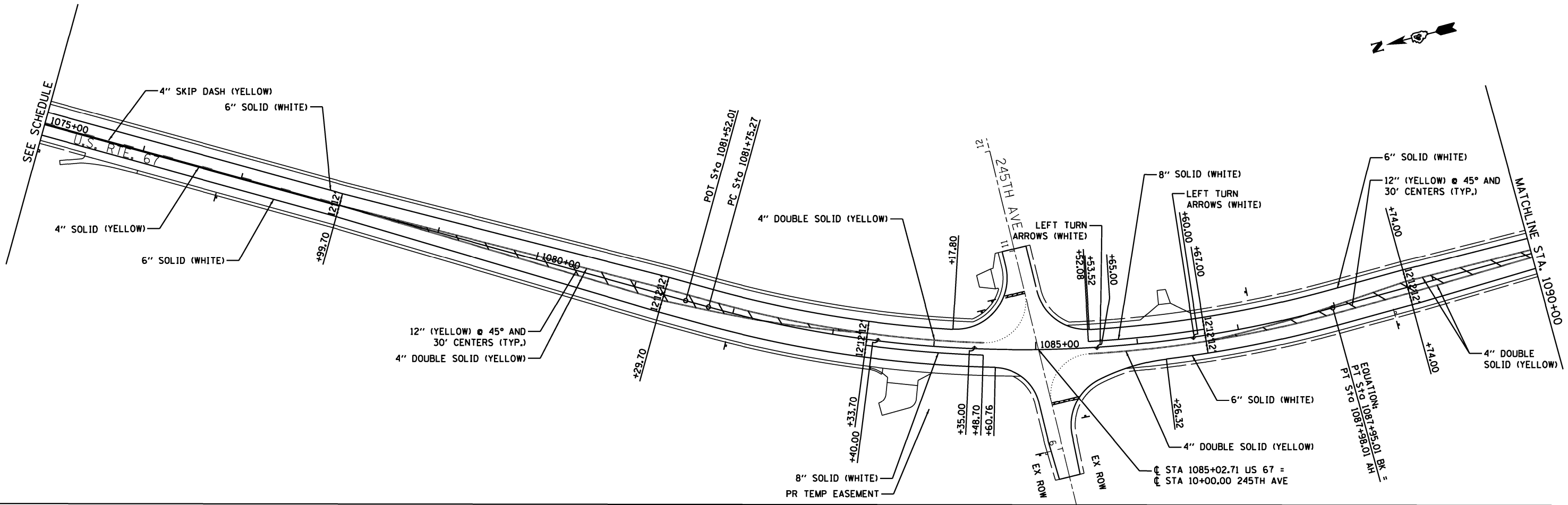
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	DRAWN - SJF	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - SLD	REVISED - _____
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 1045+00 TO STA. 1060+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	144
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



MODEL - SHOWNAMES
FILE NAME - SHEL5

EFK•Moen
Civil Engineering Design

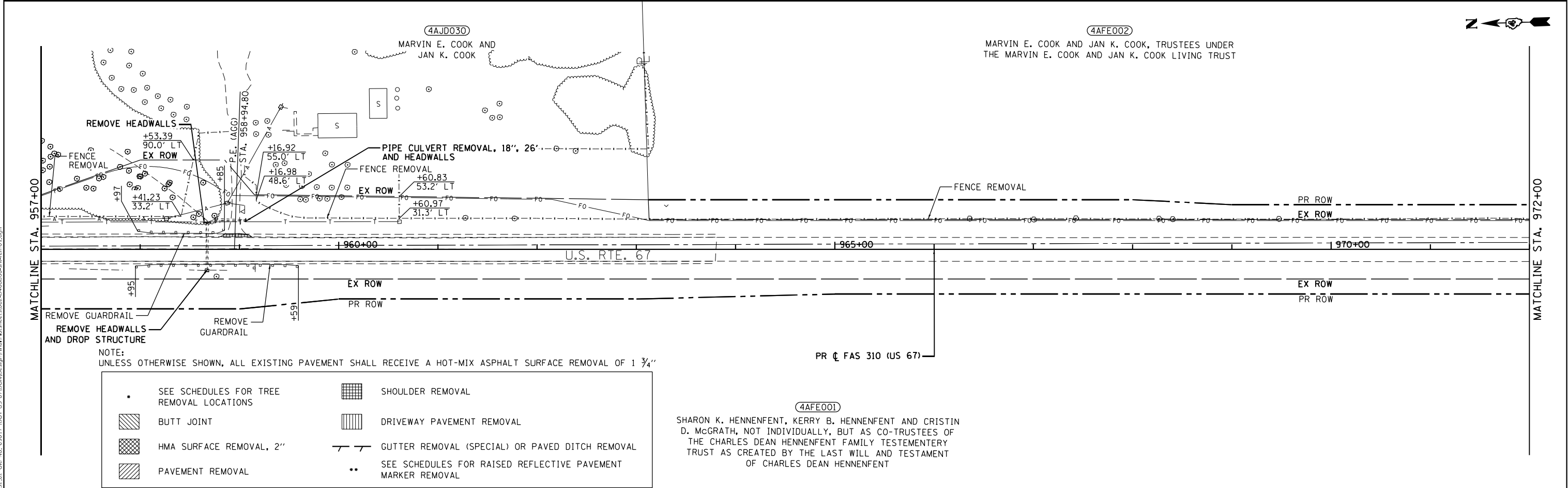
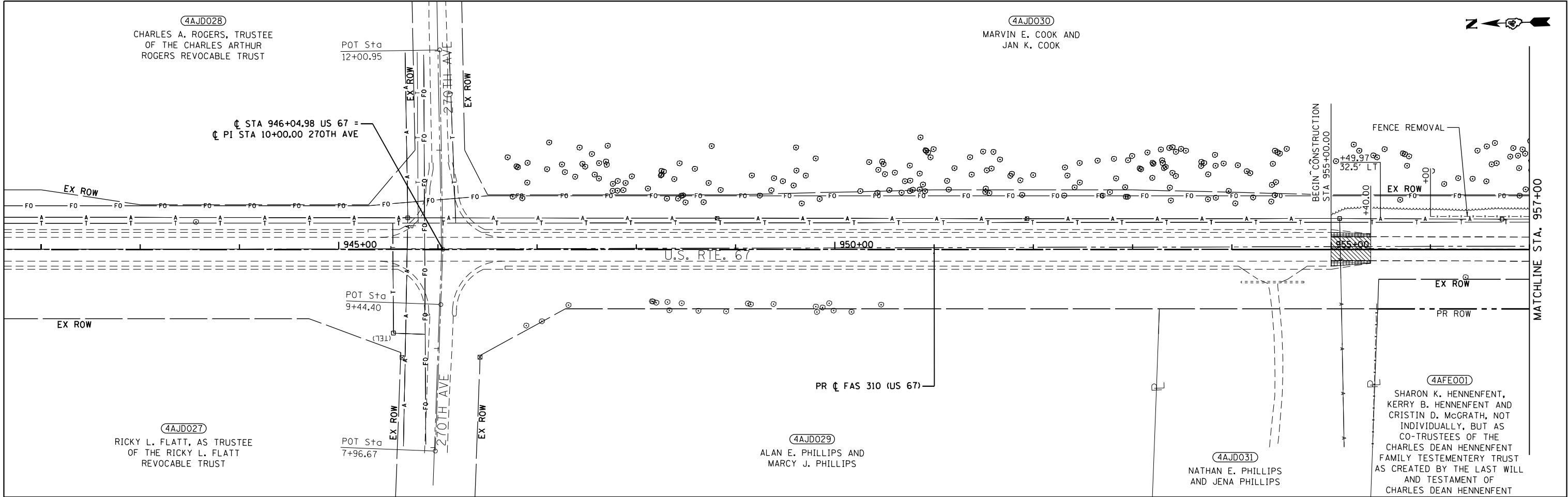
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 1075+00 TO STA. 1105+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



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EFK•Moen
Civil Engineering Design

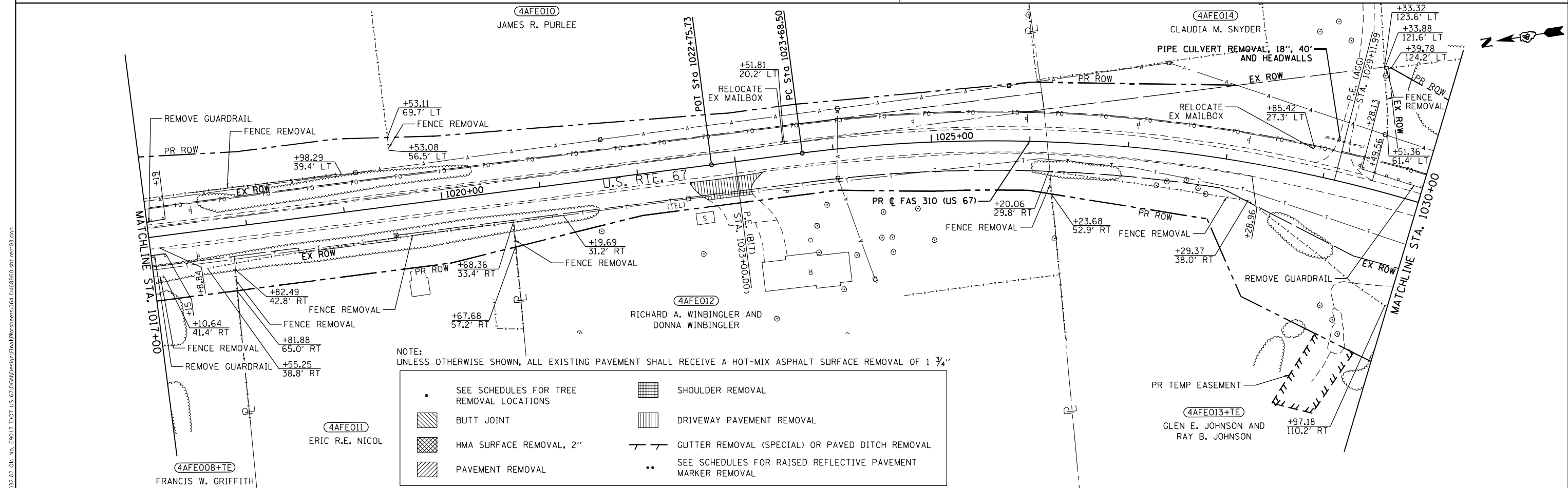
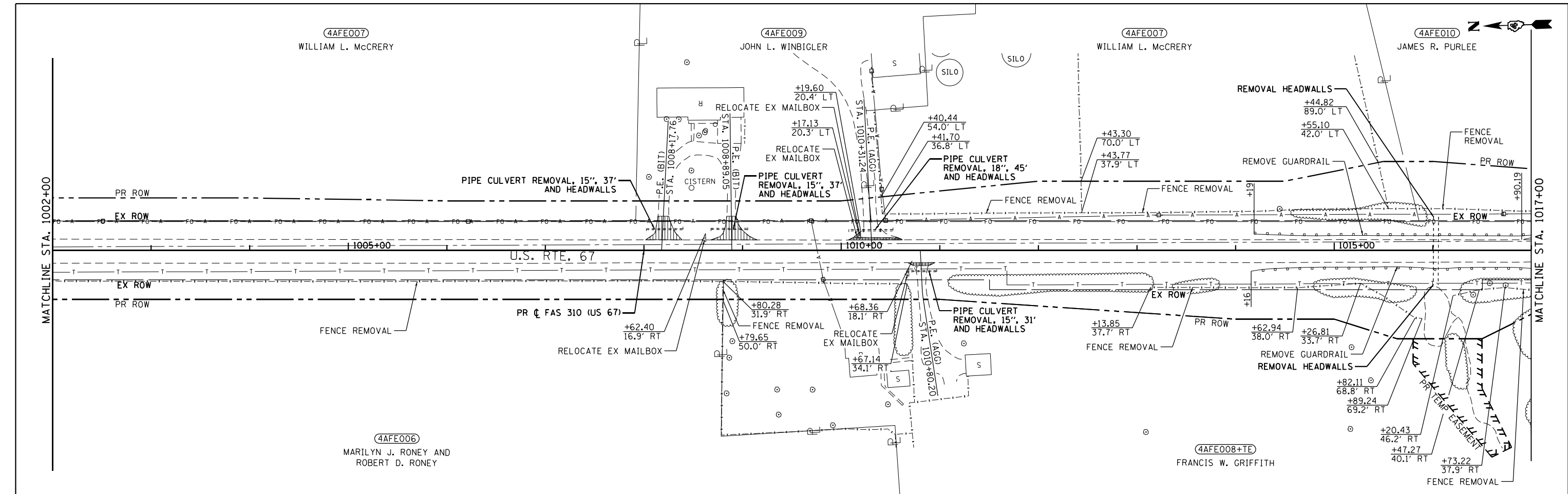
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	DATE - 3/28/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVALS

SCALE: 1"=50' SHEET 1 OF 11 SHEETS STA. 942+00 TO STA. 972+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	146
CONTRACT NO. 68B60				
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 REMOVAL LOCATIONS		SHOULDER REMOVAL
	BUTT JOINT		DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, 2"		GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL
	PAVEMENT REMOVAL	**	SEE SCHEDULES FOR RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

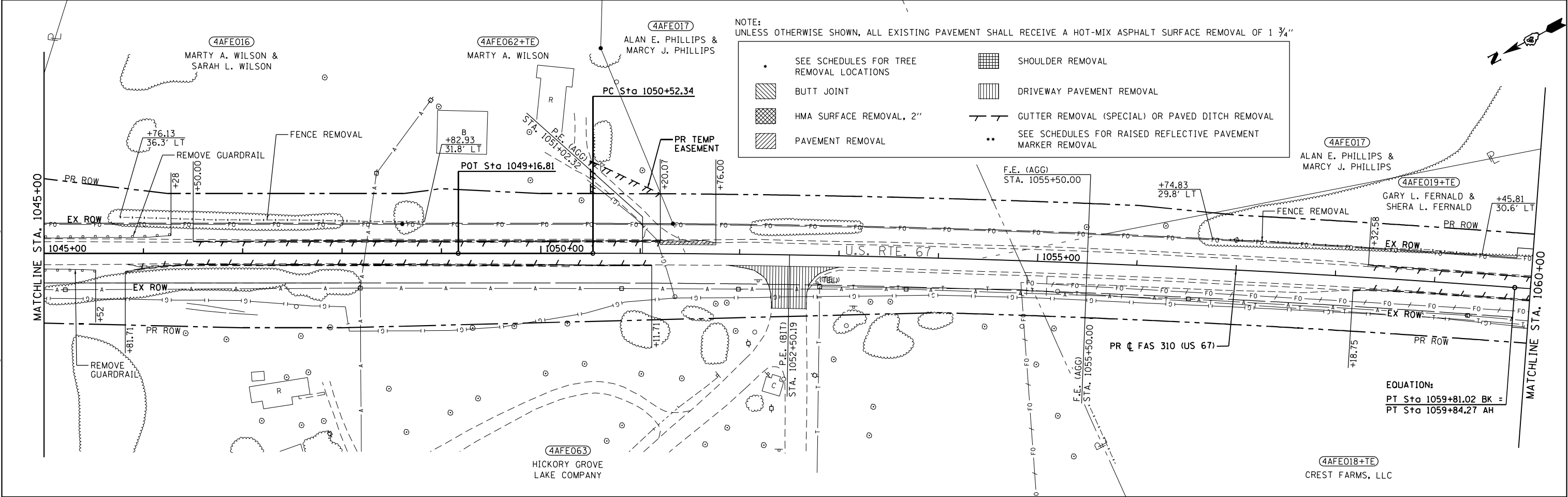
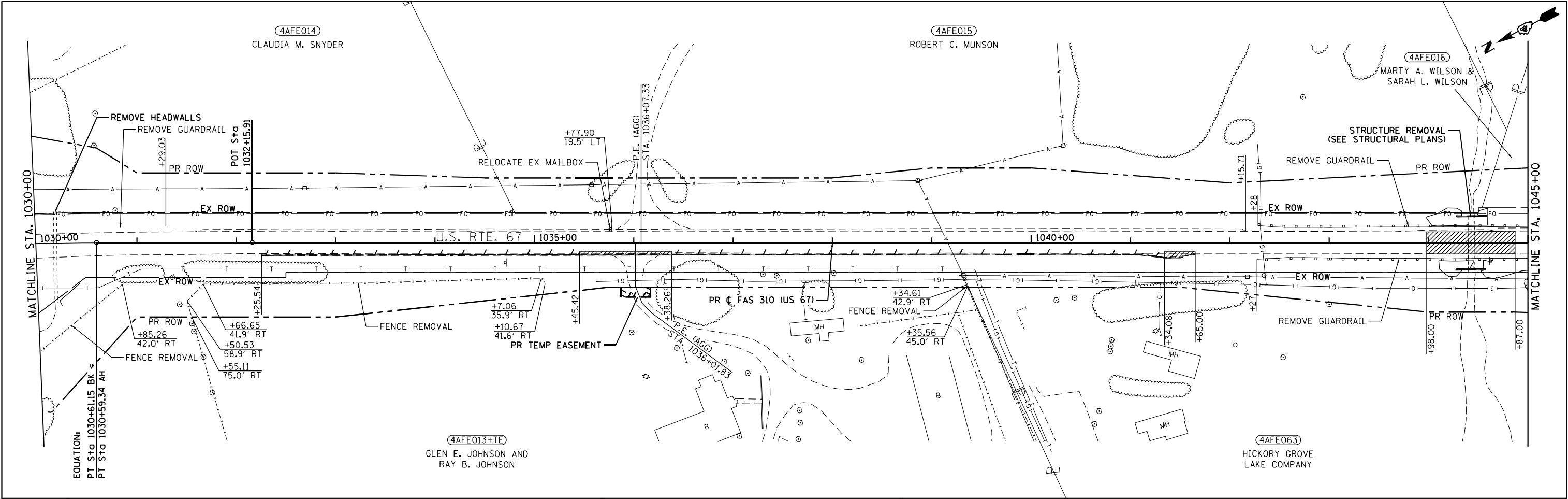
EFK•Moen
Civil Engineering Design

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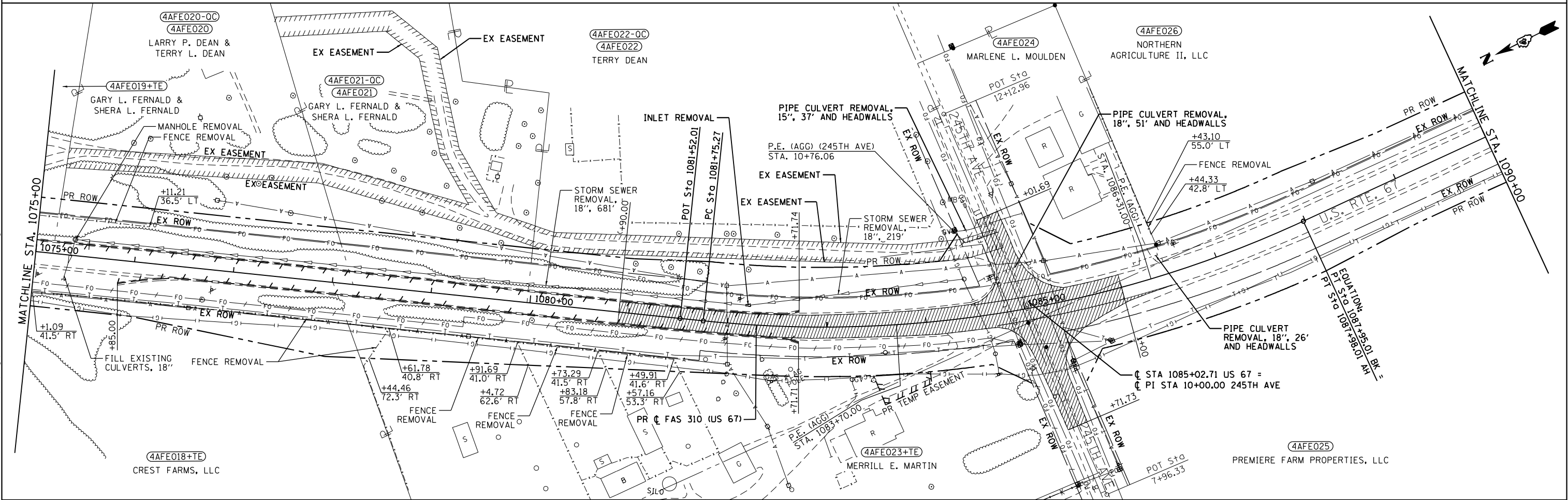
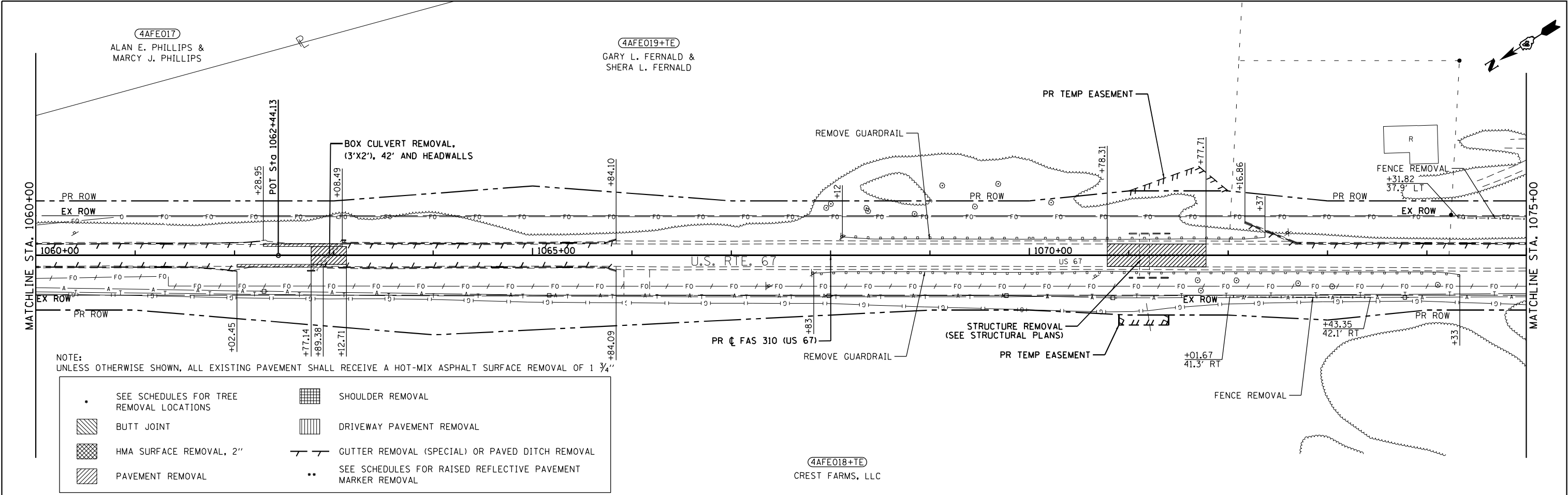
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVALS			
SCALE: 1"=50'	SHEET 3 OF 11 SHEETS	STA. 1002+00 TO STA. 1030+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	148
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				



EFK♦Moen Civil Engineering Design	USER NAME = ZWaters	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVALS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - SJF	REVISED -						310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	149
	PLOT SCALE = 100,000' / in.	CHECKED - SLD	REVISED -						CONTRACT NO. 68B60				
	PLOT DATE = 3/22/2023	DATE - 3/22/2023	REVISED -						ILLINOIS FED. AID PROJECT				
	SCALE: 1"=50'			SHEET 4 OF 11 SHEETS	STA. 1030+00 TO STA. 1060+00								



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EFK Moen
Civil Engineering Design

USER NAME = ZWaters	DESIGNED - JRD	REVISED -
	DRAWN - SJF	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - SLD	REVISED -
PLOT DATE = 3/22/2023	DATE - 3/22/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVALS

SCALE: 1"=50' SHEET 5 OF 11 SHEETS STA. 1060+00 TO STA. 1090+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	150
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

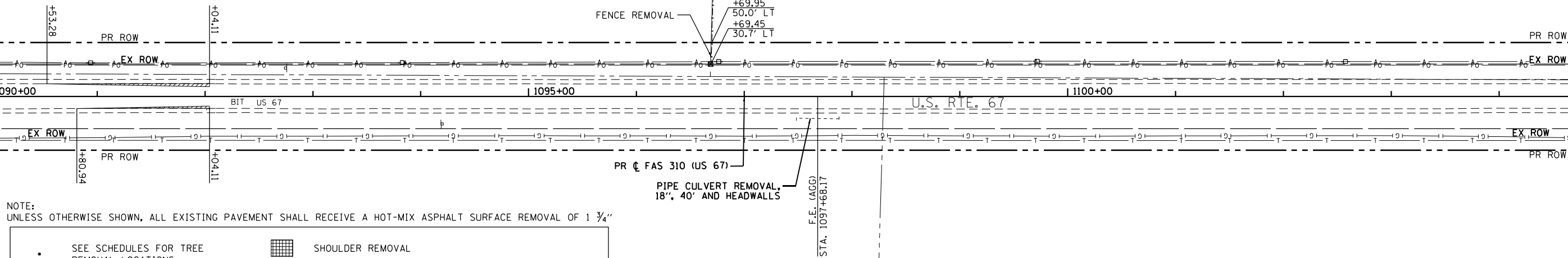


(4AFE026)
NORTHERN
AGRICULTURE II, LLC

(4AFE027)
JOYCE H. WALTON, AS TRUSTEE UNDER THE
JOYCE H. WALTON DECLARATION OF TRUST
DATED THE 18TH DAY OF SEPTEMBER, 2009

MATCHLINE STA. 1090+00

MATCHLINE STA. 1105+00



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

- | | |
|--|---|
| • SEE SCHEDULES FOR TREE REMOVAL LOCATIONS | SHOULDER REMOVAL |
| BUTT JOINT | DRIVEWAY PAVEMENT REMOVAL |
| HMA SURFACE REMOVAL, 2" | GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL |
| PAVEMENT REMOVAL | SEE SCHEDULES FOR RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |

(4AFE025)
PREMIERE FARM PROPERTIES, LLC

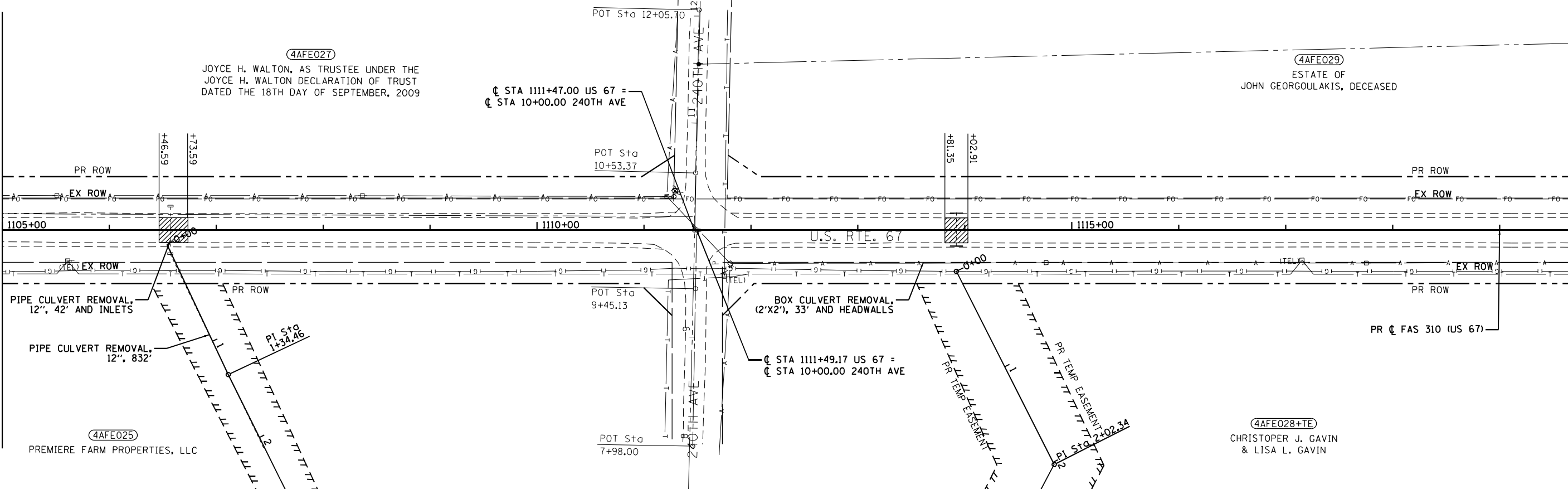


(4AFE027)
JOYCE H. WALTON, AS TRUSTEE UNDER THE
JOYCE H. WALTON DECLARATION OF TRUST
DATED THE 18TH DAY OF SEPTEMBER, 2009

(4AFE029)
ESTATE OF
JOHN GEORGOUKAKIS, DECEASED

MATCHLINE STA. 1105+00

MATCHLINE STA. 1120+00



(4AFE025)
PREMIERE FARM PROPERTIES, LLC

(4AFE028+TE)
CHRISTOPHER J. GAVIN
& LISA L. GAVIN

EFK•Moen
Civil Engineering Design

USER NAME = ZWaters
PLOT SCALE = 100,000' / in.
PLOT DATE = 3/22/2023

DESIGNED - JRD
DRAWN - SJF
CHECKED - SLD
DATE - 3/22/2023

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVALS

SCALE: 1"=50' SHEET 6 OF 11 SHEETS STA. 1090+00 TO STA. 1120+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2,29W-1; 28RS-6,29RS-4	WARREN	277	151
CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

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EFK•Moen
Civil Engineering Design

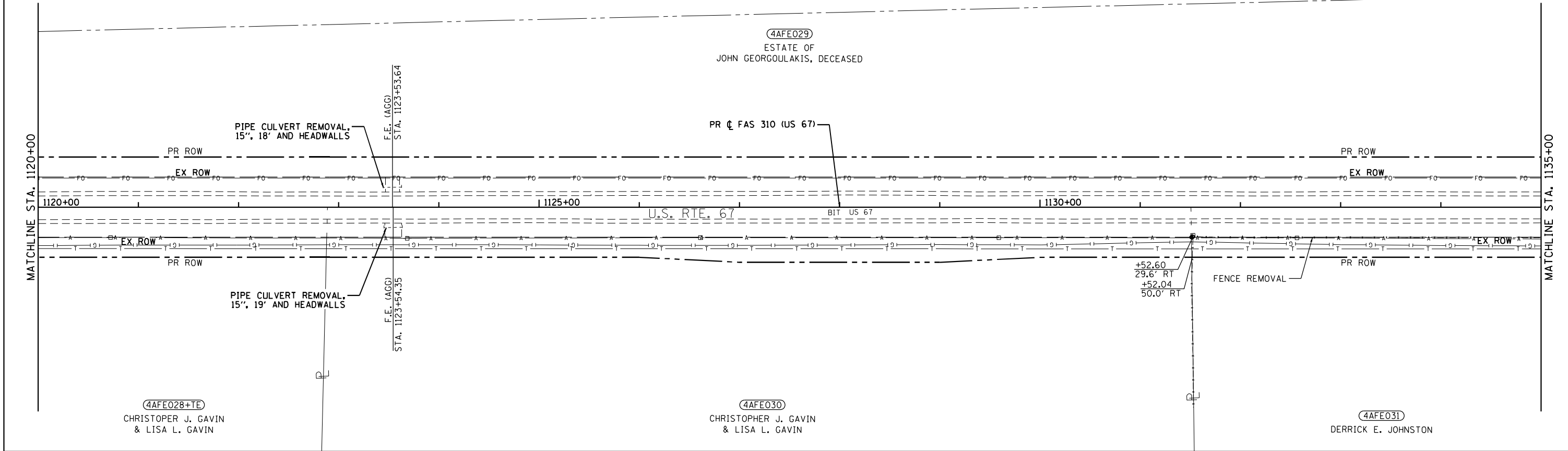
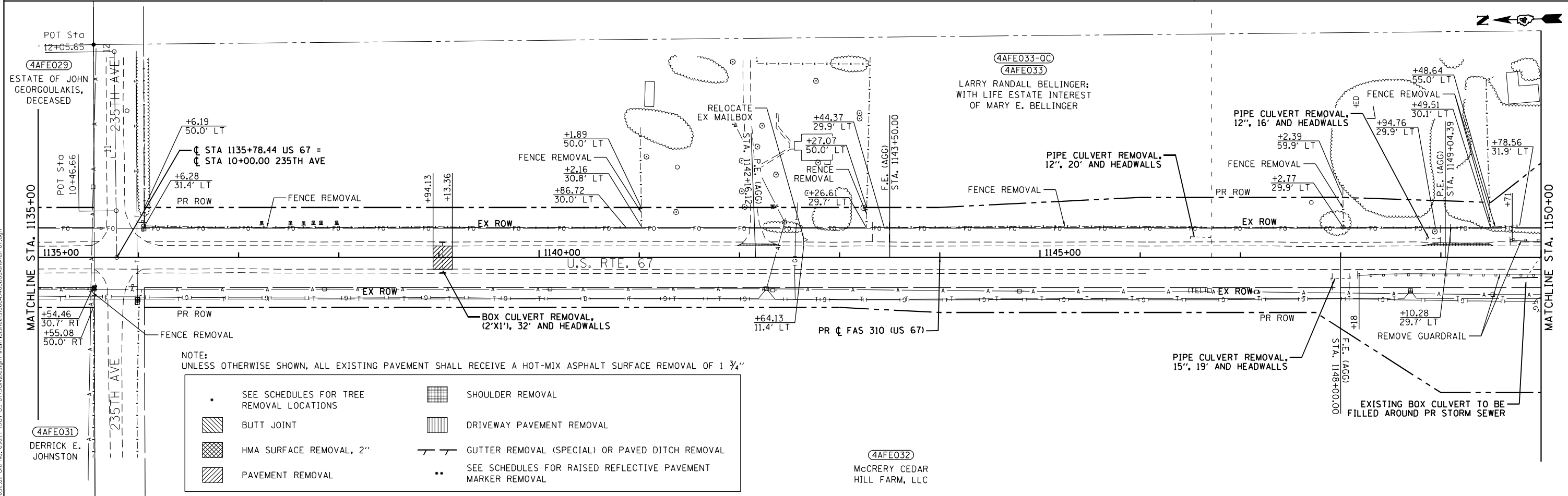
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	DATE - 3/22/2023	REVISED -

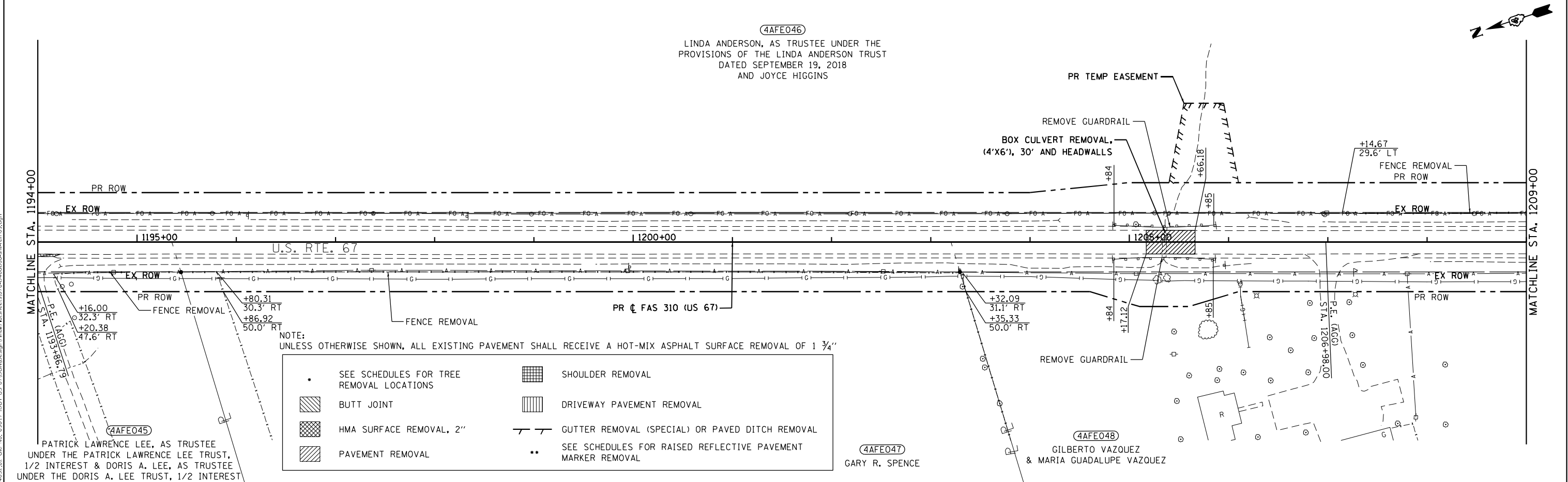
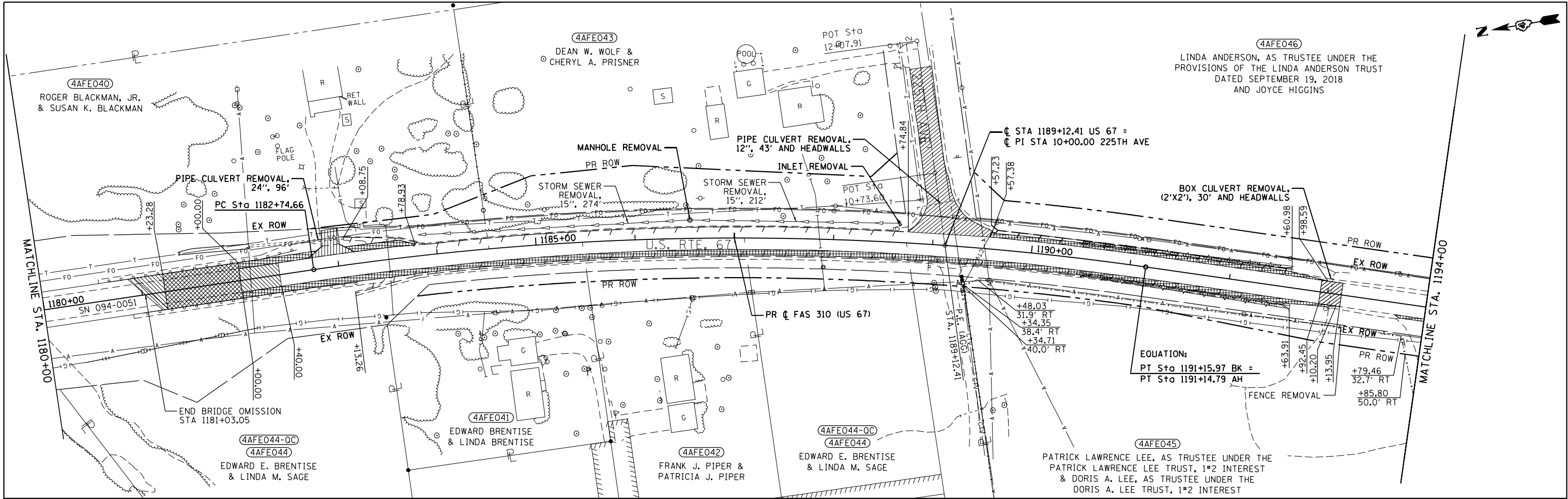
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVALS

SCALE: 1"=50' SHEET 7 OF 11 SHEETS STA. 1120+00 TO STA. 1150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68B60				
ILLINOIS FED. AID PROJECT				

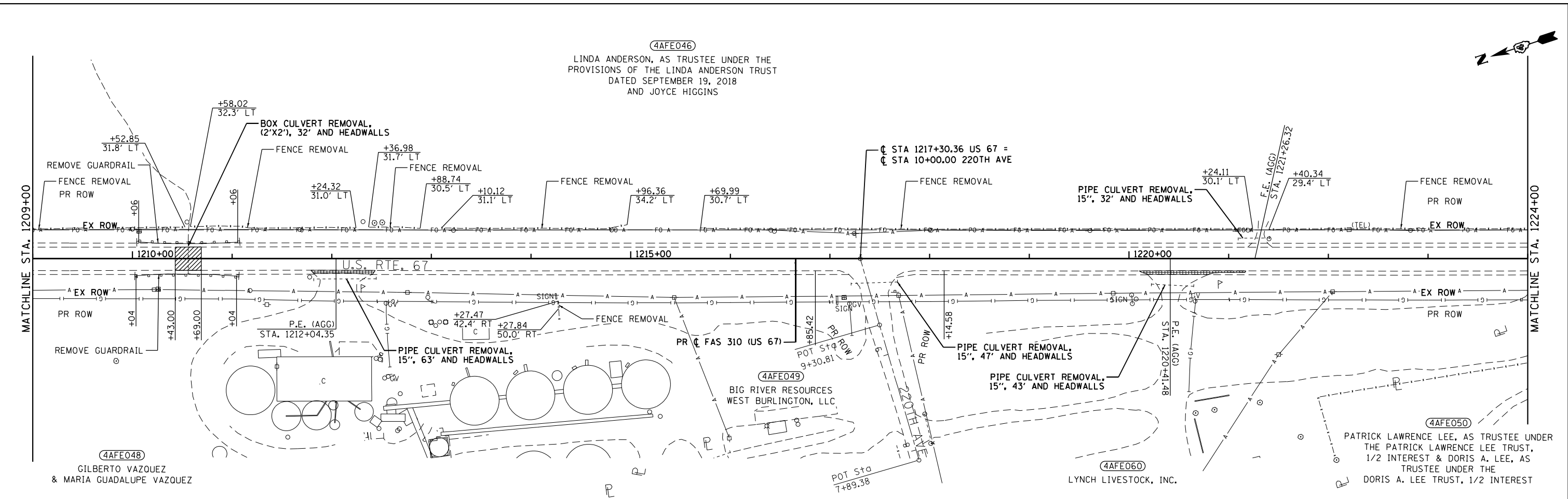




NOTE:
UNLESS OTHERWISE SHOWN, ALL EXISTING PAVEMENT SHALL RECEIVE A HOT-MIX ASPHALT SURFACE REMOVAL OF 1 3/4"

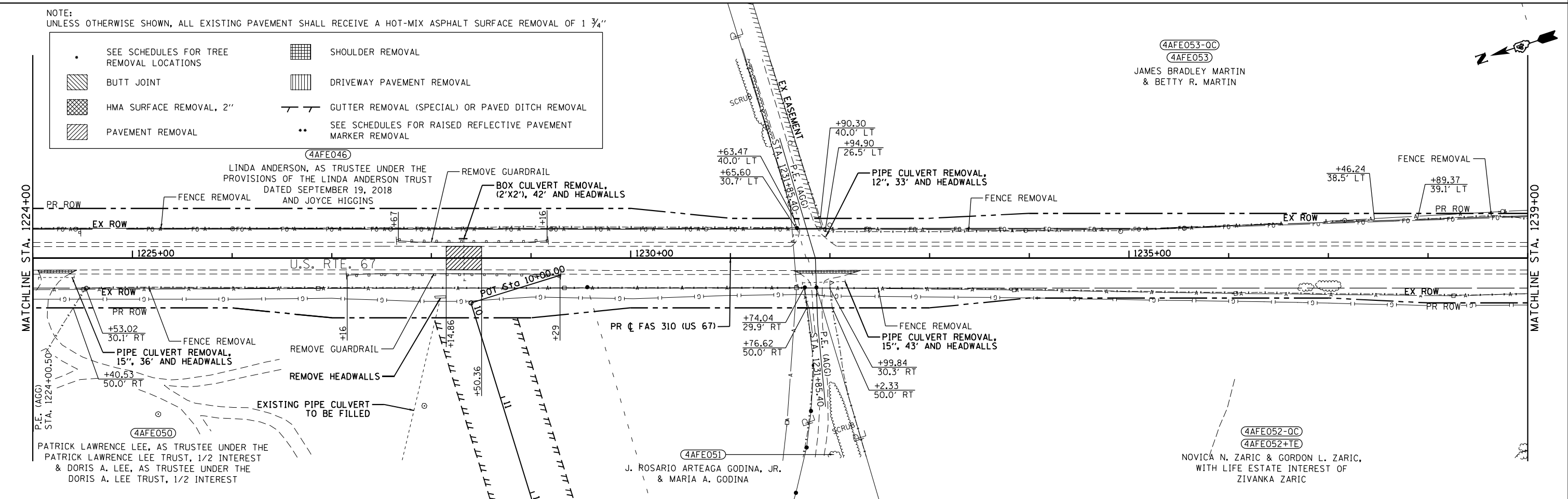
•	SEE SCHEDULES FOR TREE REMOVAL LOCATIONS		SHOULDER REMOVAL
	BUTT JOINT		DRIVEWAY PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, 2"		GUTTER REMOVAL (SPECIAL) OR PAVED DITCH REMOVAL
	PAVEMENT REMOVAL	..	SEE SCHEDULES FOR RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

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DESIGN: 0715468860-shr-rem 10.dgn



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

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



EFK♦Moen Civil Engineering Design	USER NAME = ZWaters	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVALS					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/22/2023	DATE - 3/22/2023	REVISED -		ILLINOIS FED. AID PROJECT									
					SCALE: 1"=50'	SHEET 10	OF 11	SHEETS	STA. 1209+00	TO STA. 1239+00				

B.M.: R.O.W. Marker at Intersection of
U.S. 67 and 245th Ave.
Sta. 1084+89, 33' Rt.
Elev. 714.26

Existing Structure:
Single barrel 10'x10' cast in place concrete box culvert.
The structure is ~45.5 feet in length and is not skewed.
S.N. 094-1000

Salvage: None

Traffic to be maintained using staged construction.

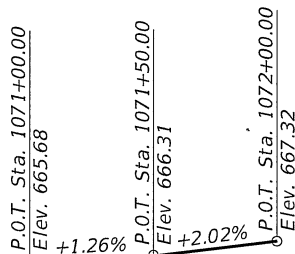
INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction Details
- Geotextile Retaining Wall & Temporary Soil Retention System
- 5. Box Culvert End Section Details
- Details of Excavation and Backfill for Box Culvert at Station 1071+30.00
- 8. Soil Borings

STATION 1071+30.00
BUILT 202 BY
STATE OF ILLINOIS
F.A.P. 310 SEC. (29,28)W-1
LOADING HL-93
STR. NO. 094-2017

NAME PLATE

Locate Name Plate on Southeast Wing
S.E. Corner of Culvert (See Std. 515001)



PROFILE GRADE (US 67)

GENERAL NOTES

The design fill heights for this box are 6.27 ft max. and 5.78 ft min. The precast box culvert sections shall conform to the requirements of ASTM C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. 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. 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. The required depth of removal and replacement of unsuitable materials for structures may be adjusted by the Engineer to account for variable subsurface conditions.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications,
9th Edition

LOADING HL-93

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

DESIGN STRESSES

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

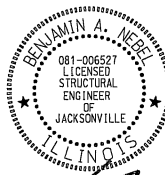
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

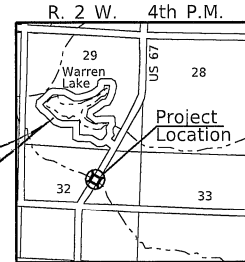
* Removal and Disposal of Unsuitable Materials for Structures and Replacement with Rockfill and Porous Granular Embankment. See Sheet 6 of 6.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	SQ YD	125
Filter Fabric	SQ YD	125
Removal of Existing Structures, No. 2	EACH	1
Name Plates	EACH	1
Box Culvert End Sections, Culvert No. 2	EACH	2
Precast Concrete Box Culverts, 10' x 10'	FOOT	168
3/4" Ø Expansion Bolts	EACH	92
Porous Granular Embankment	CU YD	470
Temporary Soil Retention System	SQ FT	1,170
Geotextile Retaining Wall	SQ FT	118
Geotechnical Fabric for Ground Stabilization	SQ YD	285
Removal & Disposal of Unsuitable Materials for Structures	CU YD	130
Rock Fill	TON	375
Temporary Support System	EACH	1



SIGNATURE: *[Signature]*
DATE SIGNED: 3/22/23
LICENSE EXPIRES: 11/30/2024



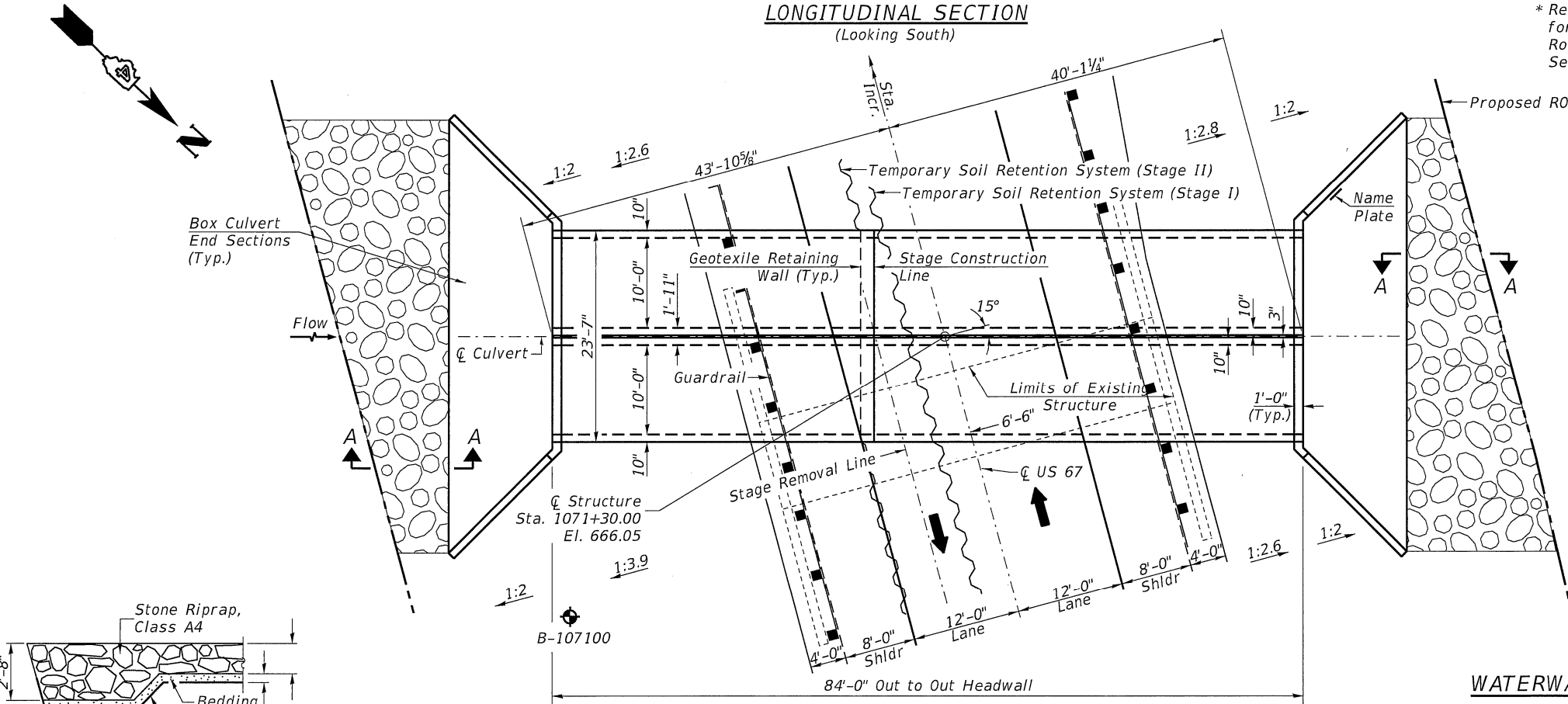
LOCATION SKETCH

GENERAL PLAN AND ELEVATION

F.A.P. 310 (US 67)
OVER UNNAMED STREAM
SEC. (29,28)W-1
WARREN COUNTY
STATION 1071+30.00
S.N. 094-2017

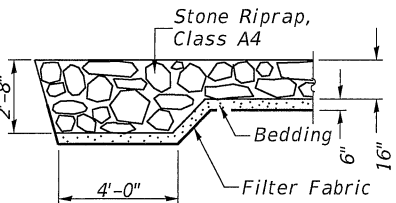
WATERWAY INFORMATION

Drainage Area = 3.0 sq. mi.		Exist. Low Grade Elev. = 665.0 @ Sta. 1070+00		Prop. Low Grade Elev. = 665.2 @ Sta. 1070+00	
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.F.	Head - Ft.
				Exist.	Prop.
	10	864	78	159	657.9
	50	1,390	86	175	658.7
	100	1,630	88	179	658.9
Design					
Base					
Overtopping					
Max. Calc.	200				



LONGITUDINAL SECTION (Looking South)

PLAN



SECTION A-A

Hutchison
Engineering, Inc.
Since 1945

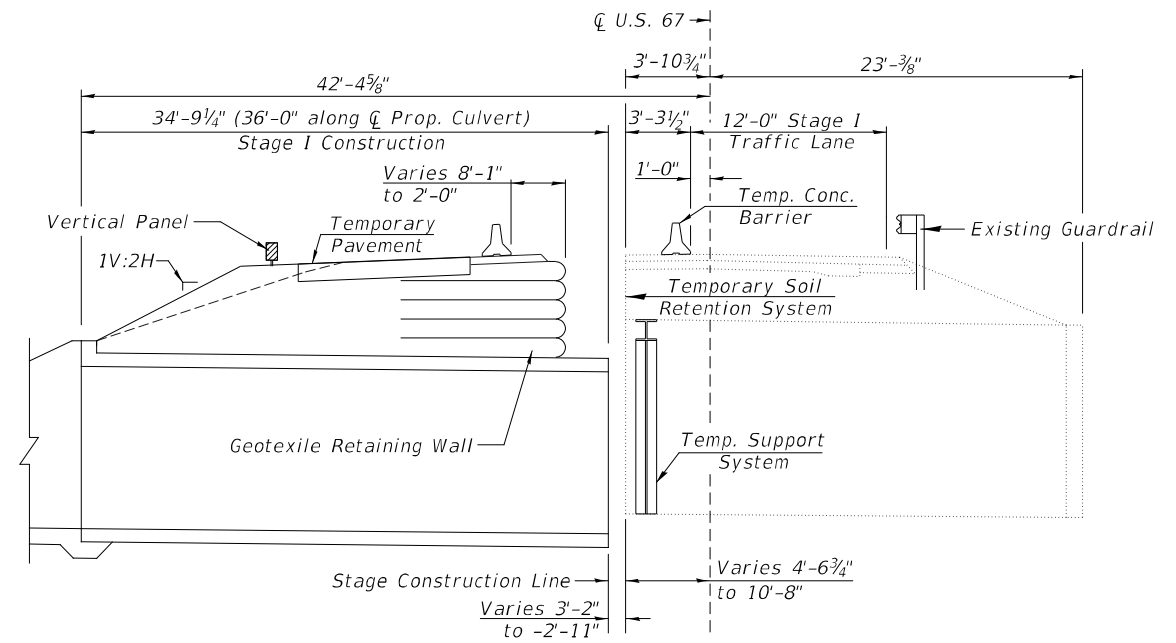
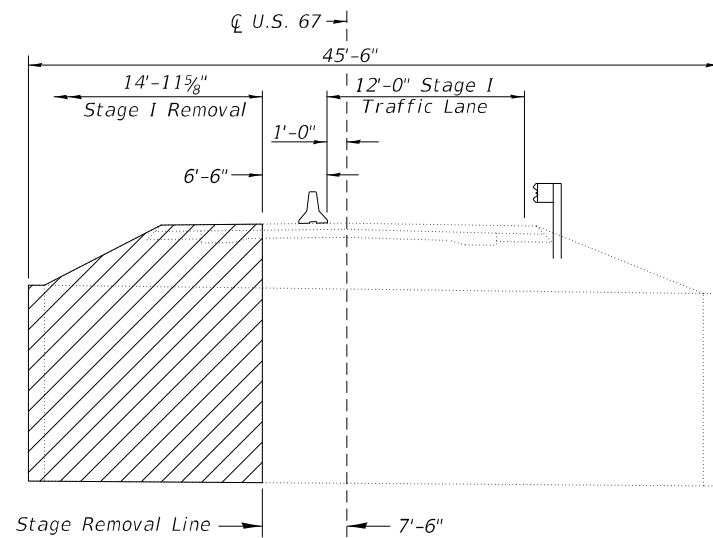
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

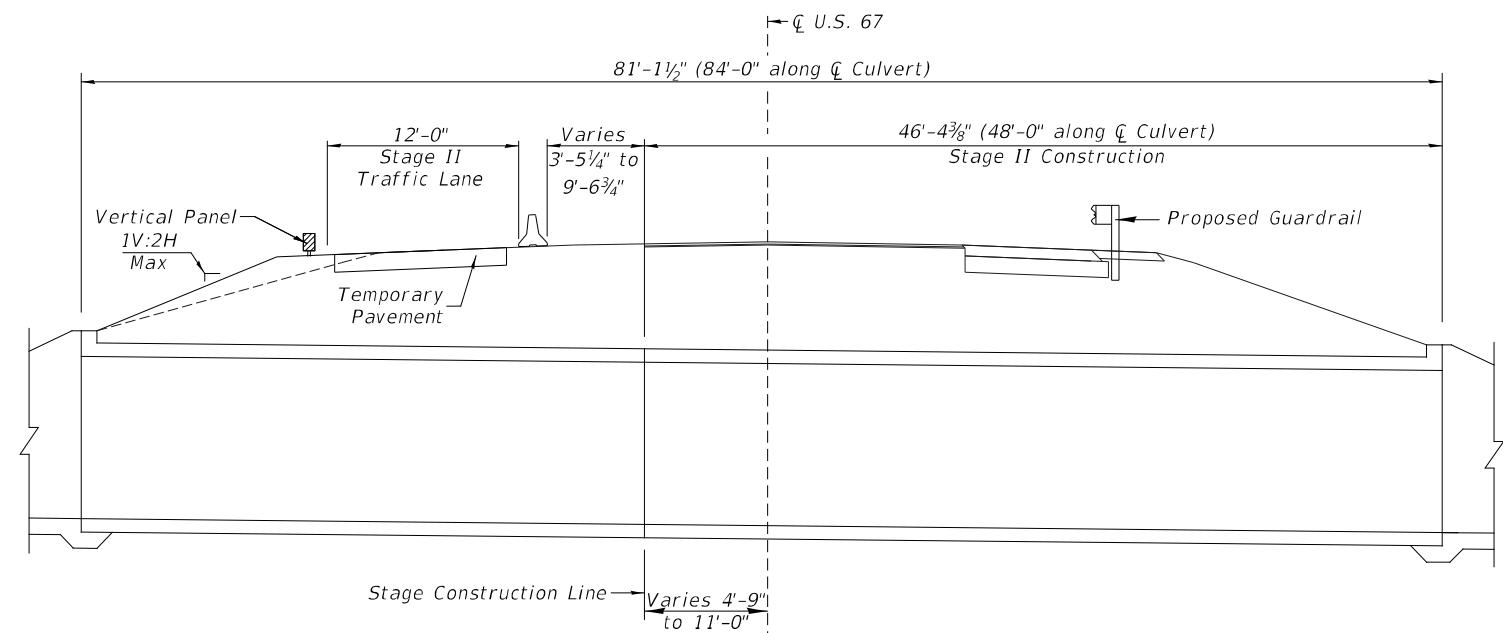
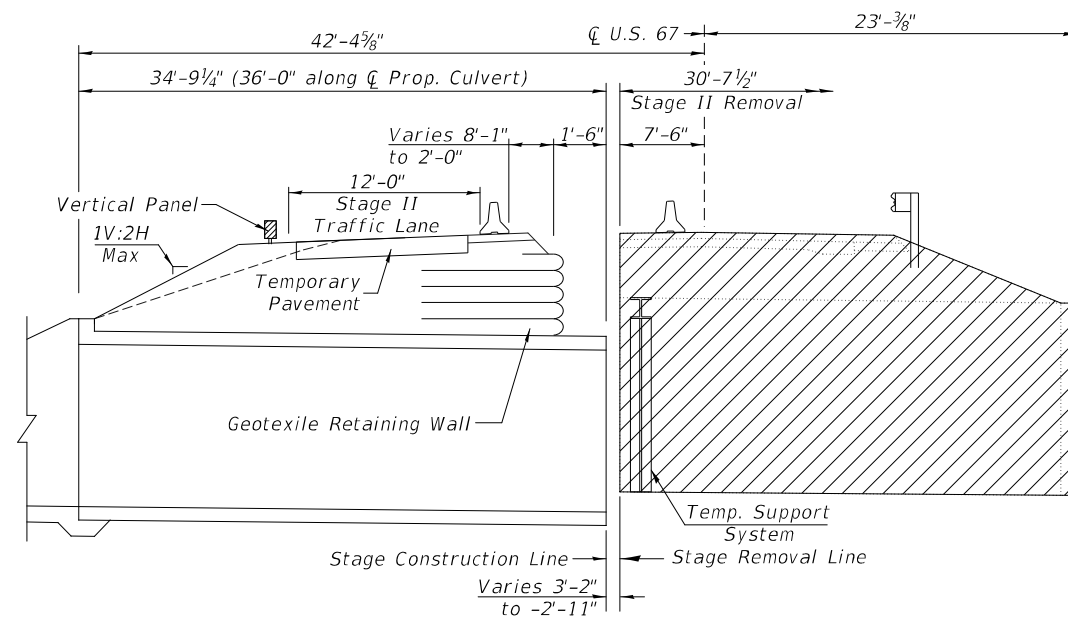
GENERAL PLAN AND ELEVATION

SCALE: N/A SHEET 1 OF 8 SHEETS

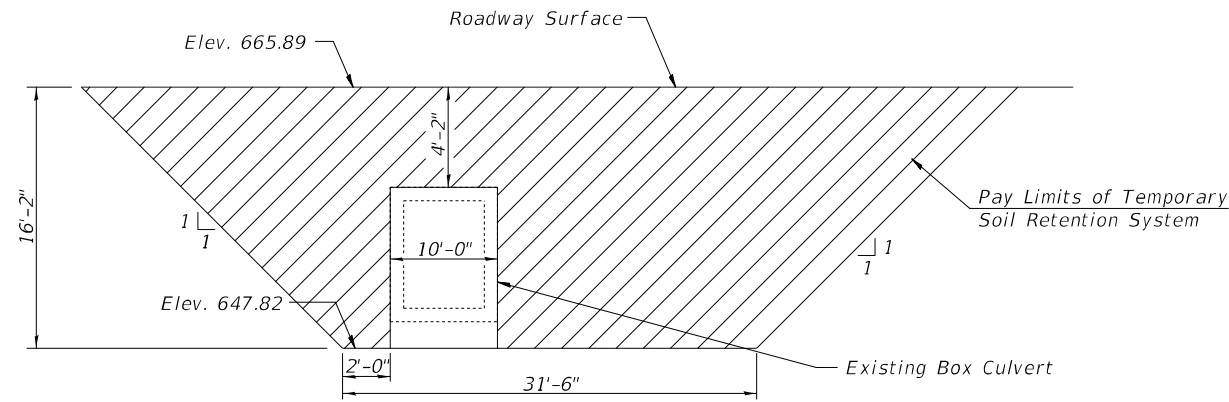
FAP R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(29,28)W-1	WARREN	277	157
S.N. 094-2017		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7		FED. AID PROJ. NO.		



*Note: Temporary Support System
Shall be in place prior to
the start of Stage I removal.*

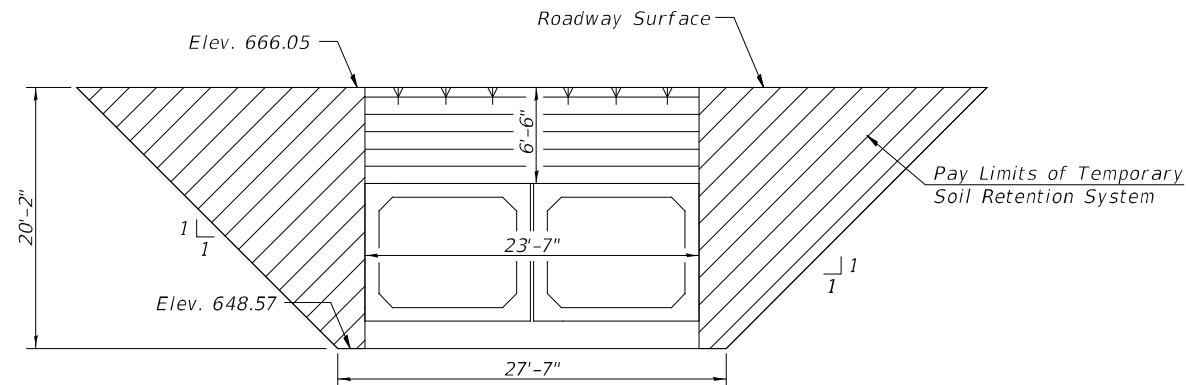


STAGE CONSTRUCTION DETAILS
(Looking South)



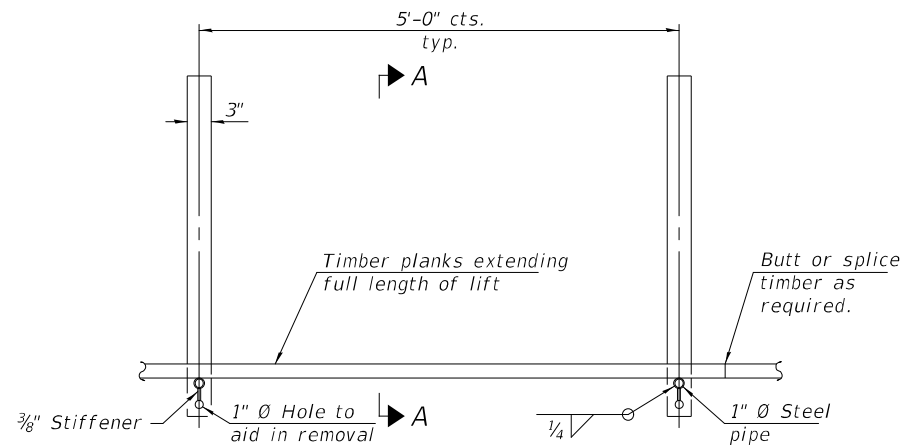
TEMPORARY SOIL RETENTION SYSTEM - STAGE 1

Dimensions are approximate and perpendicular to proposed culvert.
(Looking West)

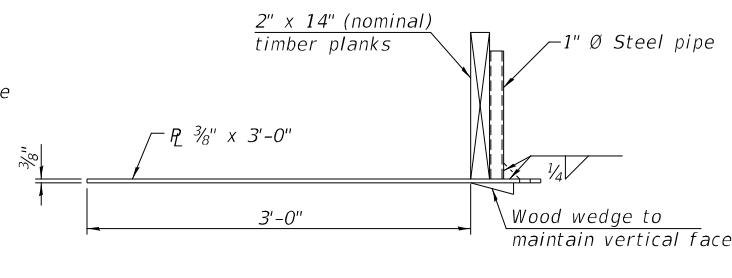


TEMPORARY SOIL RETENTION SYSTEM - STAGE 2

Dimensions are approximate and perpendicular to proposed culvert.



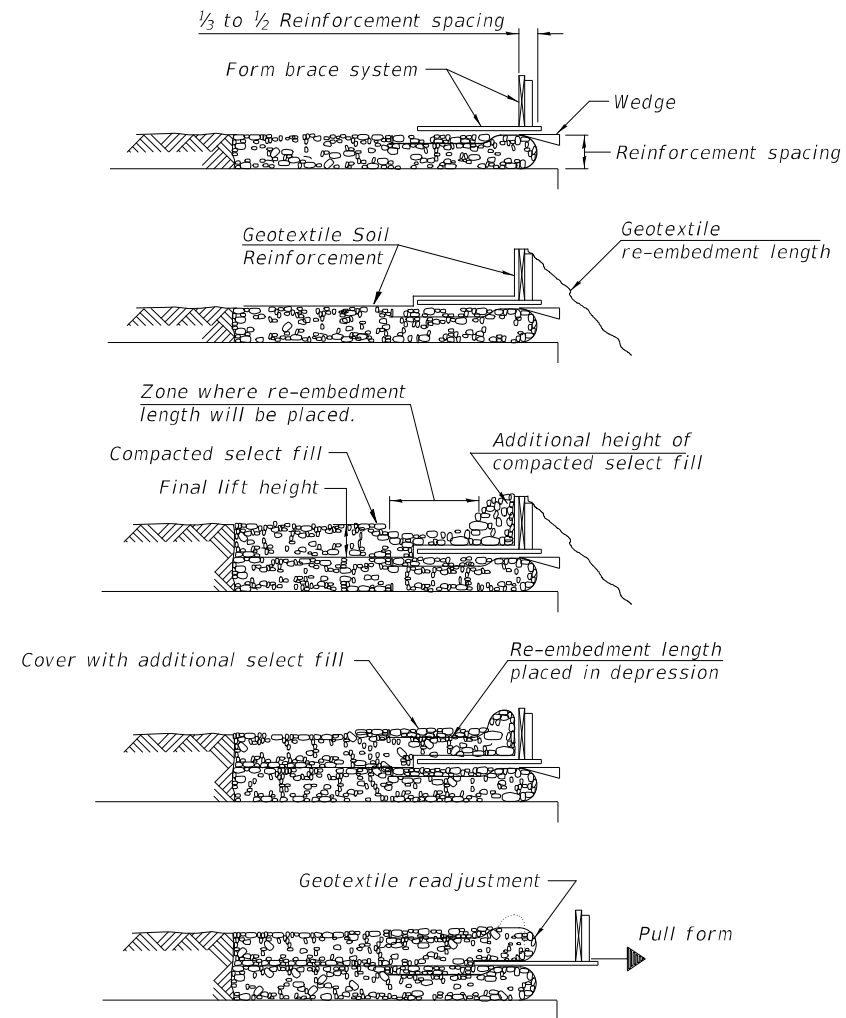
PLAN



SECTION A-A

GEOTEXTILE FORM BRACE DETAIL

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

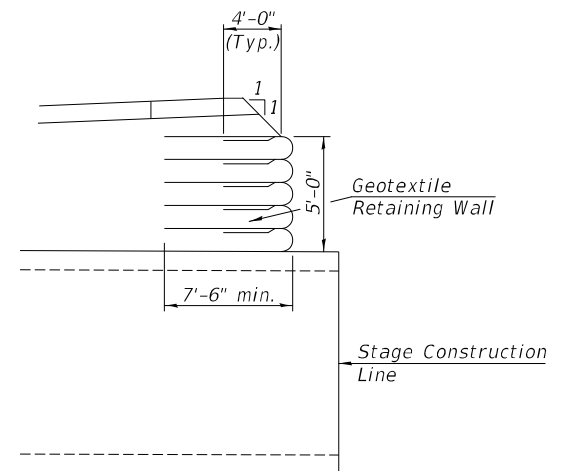


GEOTEXTILE WALL CONSTRUCTION SEQUENCE

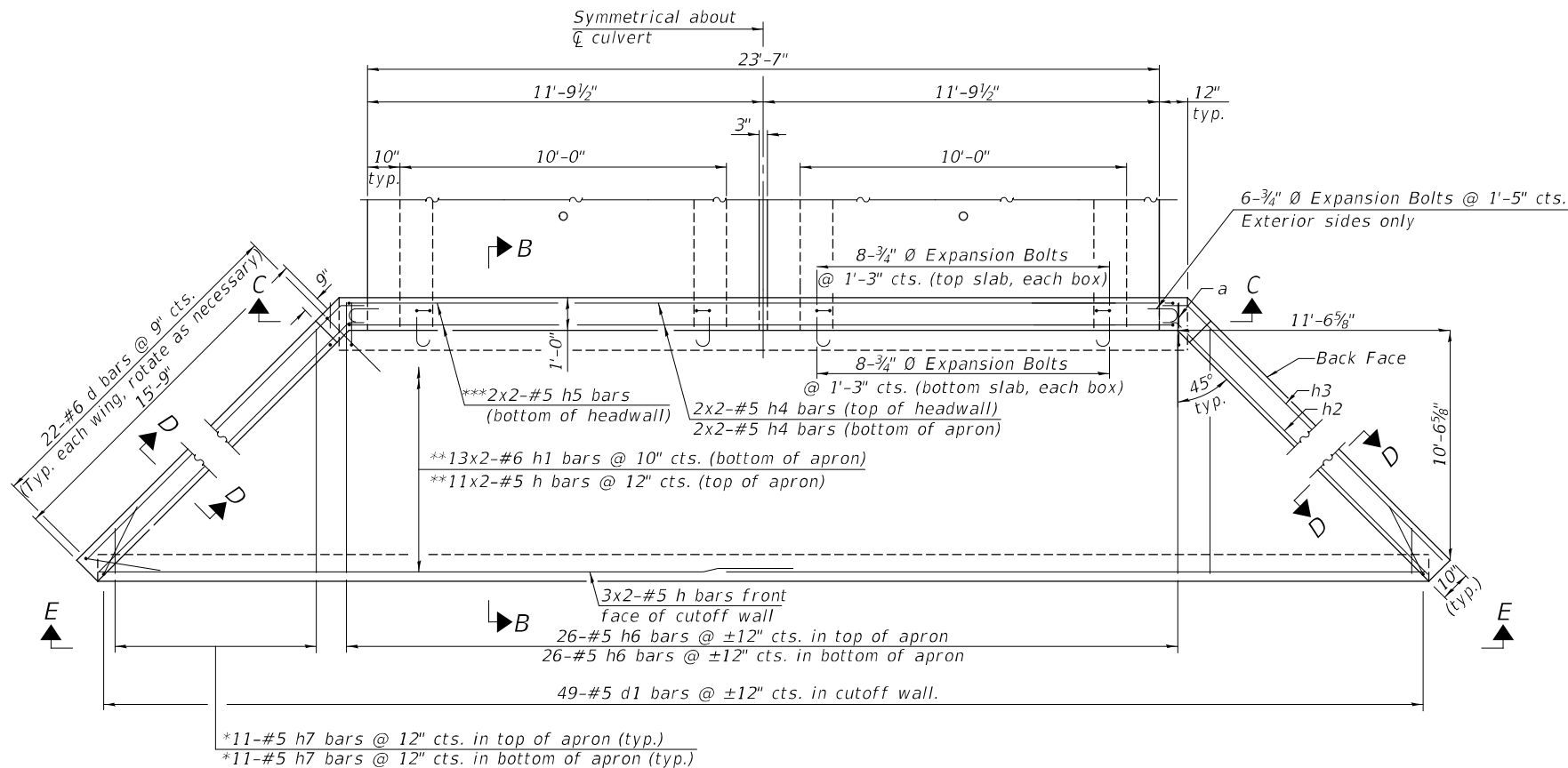
Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 24 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

BILL OF MATERIAL

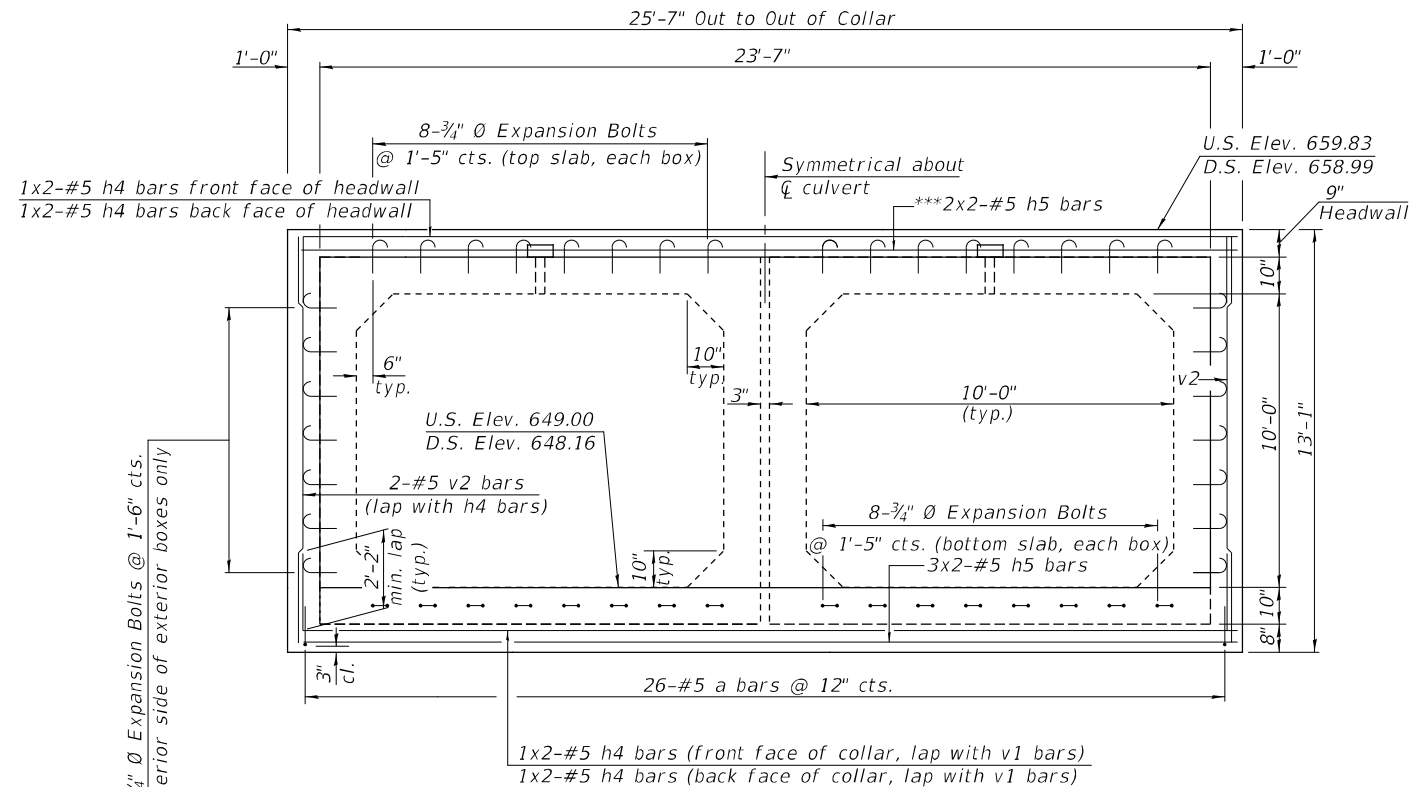
ITEM	UNIT	TOTAL
Temporary Soil Retention System	SQ FT	1,170
Geotextile Retaining Wall	SQ FT	118



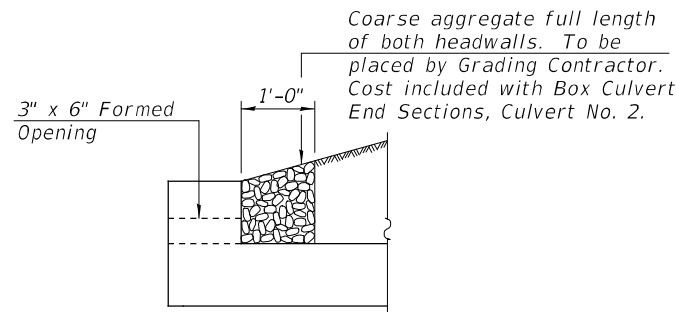
GEOTEXTILE LONGITUDINAL DETAIL



PLAN



SECTION C-C



DRAIN DETAIL

Both Ends

MIN. BAR LAP

#5 = 2'-9" (Horizontal)
#5 = 2'-2" (Vertical)
#6 = 3'-4" (Horizontal)
#6 = 2'-7" (Vertical)

*See sheet 5 of 6 for h7 bar details
**Adjust bar lap as required to fit bars.
***Cut to fit at formed openings.

Note:

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 of Box Culvert End Sections.

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 ⅓ of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The precast concrete box culvert sections shall conform to the standard designs of ASTM C 1577.

The box culvert end section shall be built in the field and a precast option is not allowed.

Areas of the precast box culvert in contact with cast-in-place concrete shall be sandblasted, cleaned, and wetted prior to placing concrete in the field according to Article 503.09(b).

The ends of the precast box sections adjacent to the end section shall be formed without male and female shapes.

The joints between precast box sections shall be sealed, all voids filled with a mastic joint sealer. In addition, the joints shall be externally sealed on all four sides with a 13 inch wide external sealing band. The seal shall be centered over the joint, secured in place and protected during the backfilling process.

See sheet 5 of 8 for Section B-B, D-D and E-E.

See sheet 5 of 8 for additional end sections details.

Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.

Expansion bolts shall be ¾" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into the concrete.

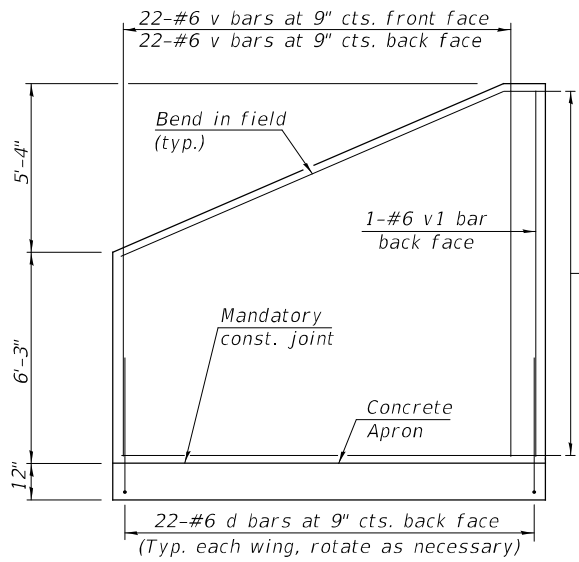
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Box Culvert End Sectons, Culvert No. 1	EACH	2
¾" Ø Expansion Bolts	EACH	92

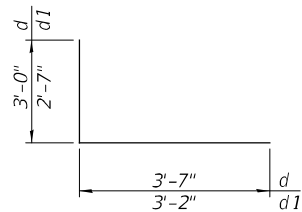
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	DRAWN - JPS	REVISED -
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PLOT DATE = 3/22/2023	DATE - 2/14/2023	REVISED -

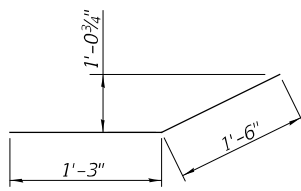
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(29.28)W-1	WARREN	277	160
S.N. 094-2017		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJ. NO.		



WINGWALL ELEVATION

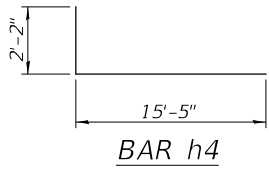


BARS d & d1

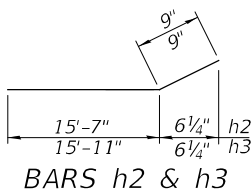


BAR a

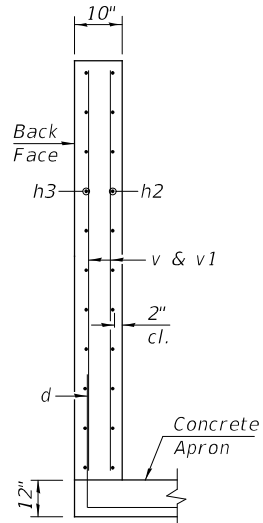
MIN. BAR LAP
#5 = 2'-9" (Horizontal)
#5 = 2'-2" (Vertical)
#6 = 3'-4" (Horizontal)
#6 = 2'-7" (Vertical)



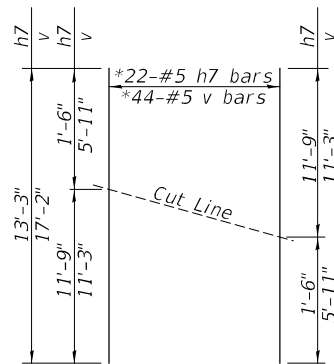
BAR h4



BARS h2 & h3

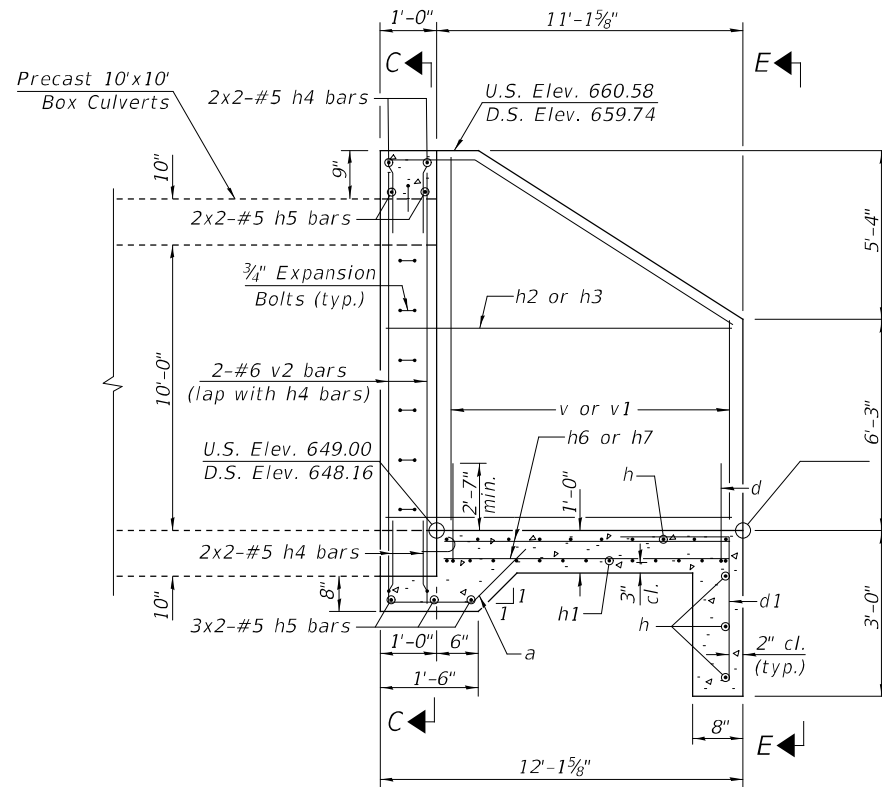


SECTION D-D



BAR CUTTING DIAGRAM

*Order h7 & v bars full length. Cut as shown and use remainder of bars in opposite end.



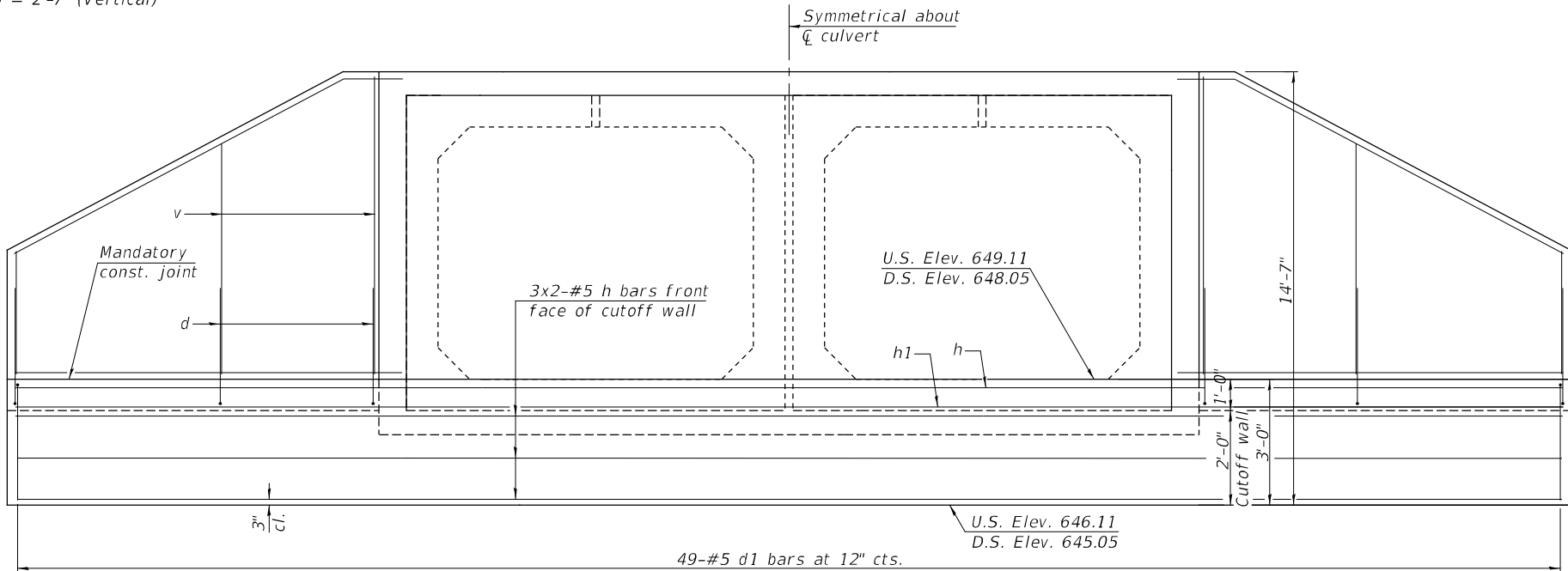
SECTION B-B

Note:
See sheet 4 of 6 for Section C-C.

ONE END SECTION
BILL OF MATERIAL

(For information only)

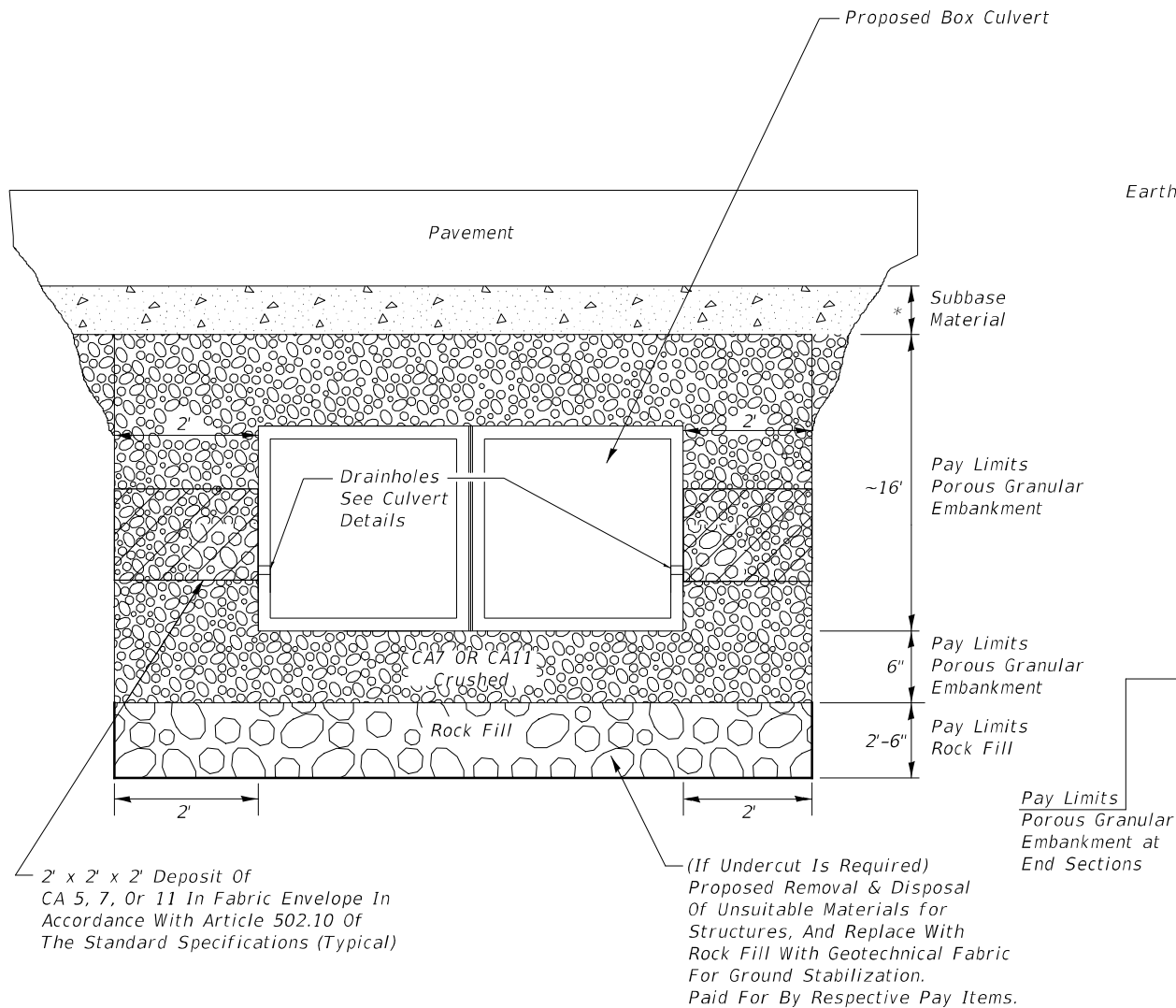
Bar	No.	Size	Length	Shape
a	26	#5	2'-9"	
d	44	#6	6'-7"	
d1	49	#5	5'-9"	
h	28	#5	26'-4"	
h1	26	#6	26'-11"	
h2	26	#5	16'-4"	
h3	26	#5	16'-8"	
h4	8	#5	17'-7"	
h5	10	#5	14'-9"	
h6	52	#5	11'-10"	
h7	22	#5	13'-3"	
v	44	#6	17'-2"	
v1	4	#6	11'-3"	
v2	4	#6	12'-8"	
Concrete Box Culverts			Cu. Yd.	28.7
Reinforcement Bars			Pound	6,050



SECTION E-E

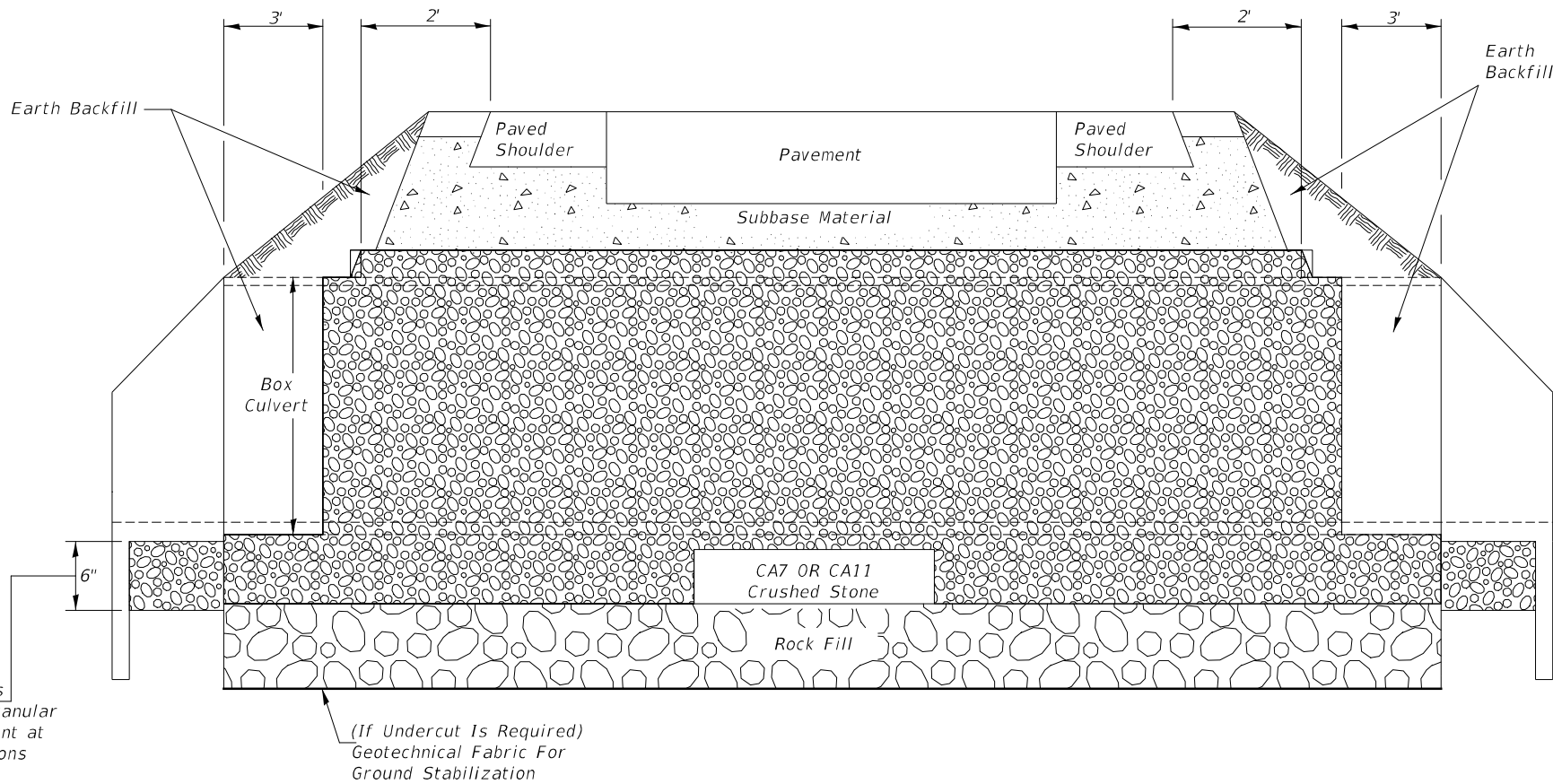
(Sheet 2 of 2)

MODEL Default
FILE NAME: V:\6559 - US 67 over Ditch - IDOT D-ILLICADD\CADD Sheets\6559 - 006 094-2017.dgn



ROADWAY PROFILE
VIEW

* Subbase Shall Be 6" Minimum Layer Of CA6 Crushed Stone Or Other Material As Specified In The Plans.



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 Embankment Shall Be Placed In Accordance With Section 207 Of The Standard Specifications.
- If No Undercut Is Required, A 6" Minimum Layer Of Porous Granular Embankment Shall Be Placed Below The Elevation Of The Bottom Of Box Culvert.

Page 1 of 2

Date 9/14/21

ROUTE	FAP 310 (US 67)	DESCRIPTION	Structure Boring for Culvert	LOGGED BY	Patel (Rubino)
--------------	-----------------	--------------------	------------------------------	------------------	----------------

SECTION (29, 28) W-1; 29RS-4, 28RS-5 **LOCATION** NE 1/4, **SEC.** 32, **TWP.** 12N, **RNG.** 2W, 4th PM,
Latitude 40.989920, **Longitude** -90.637504

COUNTY Warren DRILLING METHOD HSA HAMMER TYPE AUTO

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

Page 2 of 2

Date 9/14/21

ROUTE	FAP 310 (US 67)	DESCRIPTION	Structure Boring for Culvert	LOGGED BY	Patel (Rubino)
--------------	-----------------	--------------------	------------------------------	------------------	----------------

SECTION (29, 28) W-1; 29RS-4, 28RS-5 **LOCATION** NE 1/4, SEC. 32, TWP. 12N, RNG. 2W, 4th PM,
Latitude 40.989920, Longitude -90.637504

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

USER NAME = JWhite	DESIGNED - JPS	REVISED -
	DRAWN - JPS	REVISED -
PLOT SCALE = 100,0000 ' / in,	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 3/22/2023	DATE - 2/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

SOIL BORINGS				FAP RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
				310	(29.28)W-1		WARREN	277	163
				S.N. 094-2017			CONTRACT NO. 68B60		
SCALE: N/A	SHEET 7	OF 8	SHEETS	FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJ. NO.		

B.M.: B.M.#3 Cut "□" in SE Corner of
West Concrete Headwall
Sta. 1044+57, 27' Rt.
Elev. 674.07

Existing Structure:
Single barrel 6'x8' cast in place concrete box culvert.
The structure is ~54'-4" feet in length and is not skewed.
S.N. 094-1001

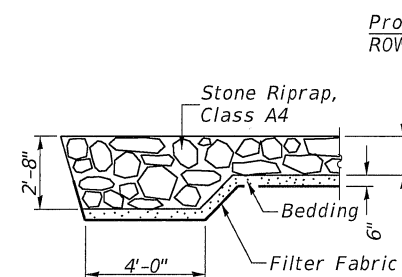
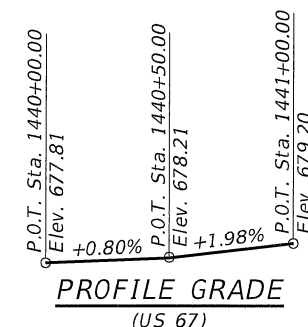
Salvage: None

Traffic to be maintained using staged construction.

INDEX OF SHEETS

- General Plan and Elevation
- Stage Construction Details
- Geotextile Retaining Wall & Temporary Soil Retention System
- Box Culvert End Section Details
- Detail of Excavation and Backfill for Box Culvert at Station 1044+42.50
- Soil Borings

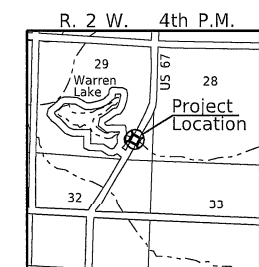
*Removal and Disposal of Unsuitable Material for Structures and Replacement with Rockfill and Porous Granular Embankment. See Sheet 6 of 7.



SECTION A-A

WATERWAY INFORMATION

Drainage Area = 1.9 sq. mi.		Ex. Overtopping Elev. = 677.65 @ Sta. 1044+00.00							
		Prop. Overtopping Elev. = 677.81 @ Sta. 1044+00.00							
Flood	Freq.	Q	Opening Sq. Ft.		Nat.	Head - Ft.		Headwater El.	
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	582	44	155	671.2	3.6	0.2	674.8	671.4
Existing Overtopping	25	774	44	155	671.4	6.4	0.5	677.8	671.9
Design	50	923	44	155	671.5	7.2	0.8	678.7	672.3
Base	100	1,080	44	155	671.7	7.5	0.9	679.2	672.6
Max. Calc.	200								

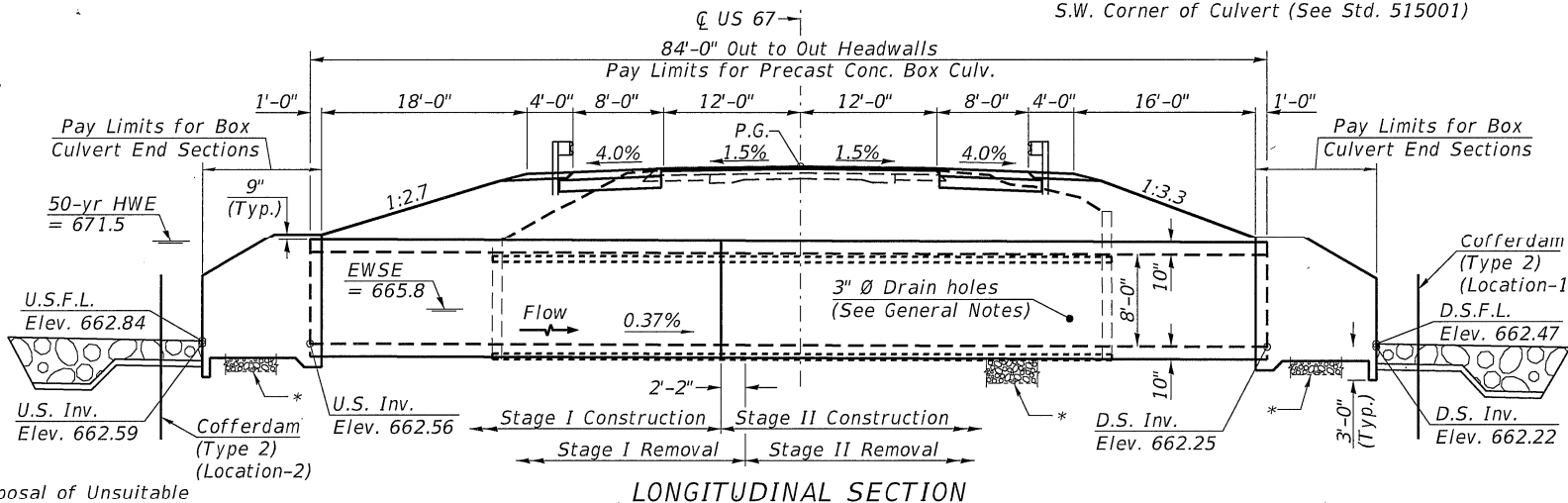


LOCATION SKETCH

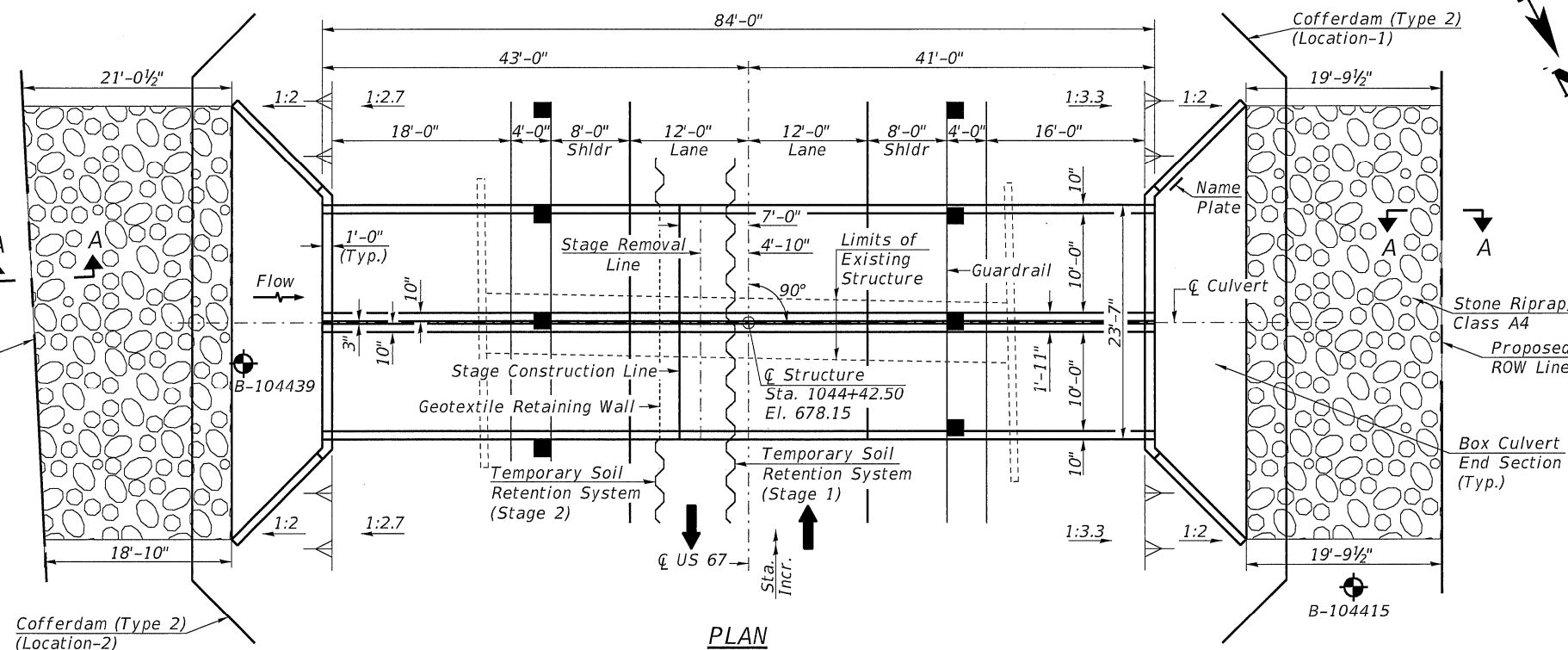
STATION 1044+42.50
BUILT 202 BY
STATE OF ILLINOIS
F.A.P. 310 SEC. (29,28)W-1
LOADING HL-93
STR. NO. 094-2018

NAME PLATE

Locate Name Plate on Southwest Wing
S.W. Corner of Culvert (See Std. 515001)



LONGITUDINAL SECTION



PLAN

GENERAL NOTES

The design fill heights for this box are 7.06 ft max. and 6.25 ft min. The precast box culvert sections shall conform to the requirements of ASTM C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

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.

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.

The required depth of removal and replacement of unsuitable material for structures may be adjusted by the Engineer to account for variable subsurface conditions.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications,
9th Edition

LOADING HL-93

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

DESIGN STRESSES

PRECAST UNITS

f'_c = 5,000 psi
 f_y = 65,000 psi (Welded Wire Reinforcement)

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	SQ YD	195
Filter Fabric	SQ YD	195
Removal of Existing Structures, No. 1	EACH	1
Name Plates	EACH	1
Box Culvert End Sections, Culvert No. 1	EACH	2
Precast Concrete Box Culverts, 10' x 8'	FOOT	168
3/4" Ø Expansion Bolts	EACH	88
Porous Granular Embankment	CU YD	450
Temporary Soil Retention System	SQ FT	1,186
Geotextile Retaining Wall	SQ FT	118
Cofferdam (Type 2) (Location-1)	EACH	1
Cofferdam (Type 2) (Location-2)	EACH	1
Geotechnical Fabric for Ground Stabilization	SQ YD	285
Removal & Disposal of Unsuitable Material for Structures	CU YD	185
Rock Fill	TON	225

GENERAL PLAN AND ELEVATION F.A.P. 310 (US 67) OVER WARREN LAKE

SEC. (29,28)W-1

WARREN COUNTY

STATION 1044+42.50

S.N. 094-2018

SIGNATURE:

DATE SIGNED: 3/22/23

LICENSE EXPIRES: 11/30/2024

Hutchison
Engineering, Inc.
Since 1945

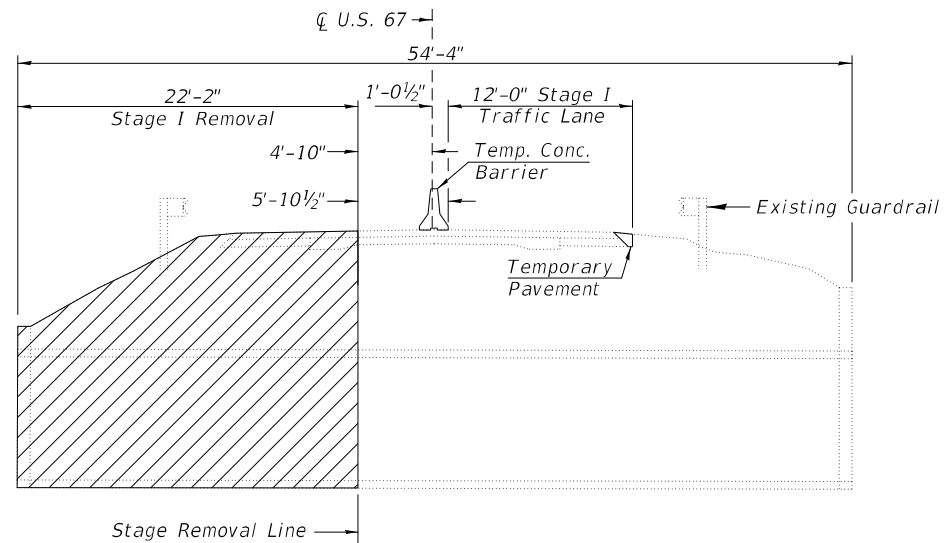
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	DATE - 2/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

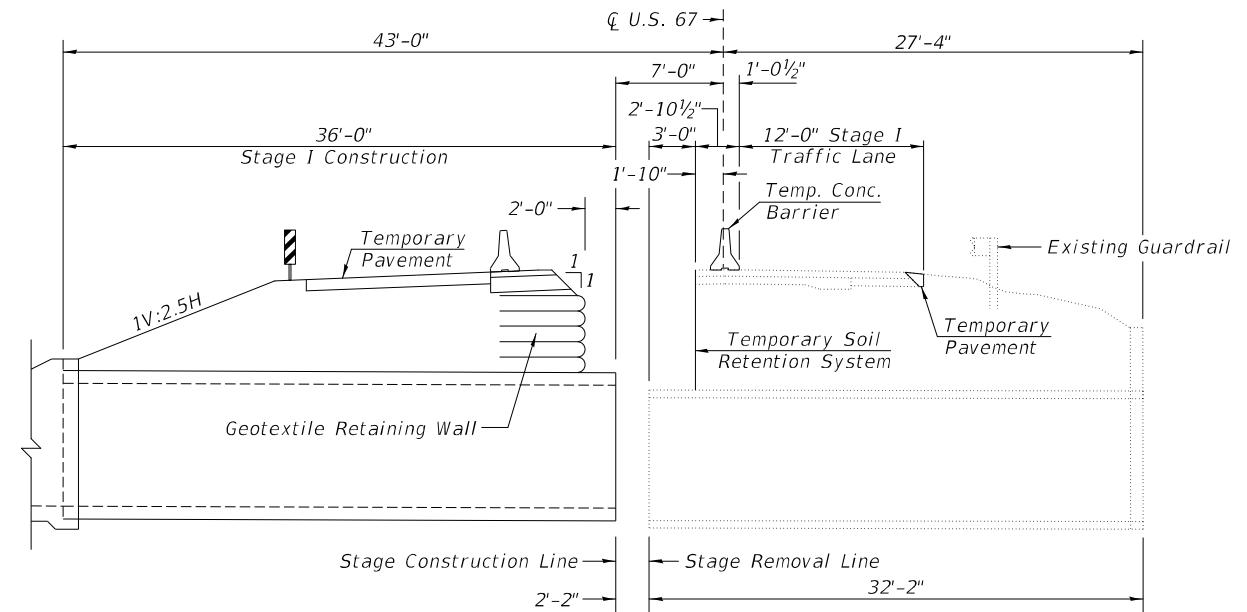
GENERAL PLAN AND ELEVATION

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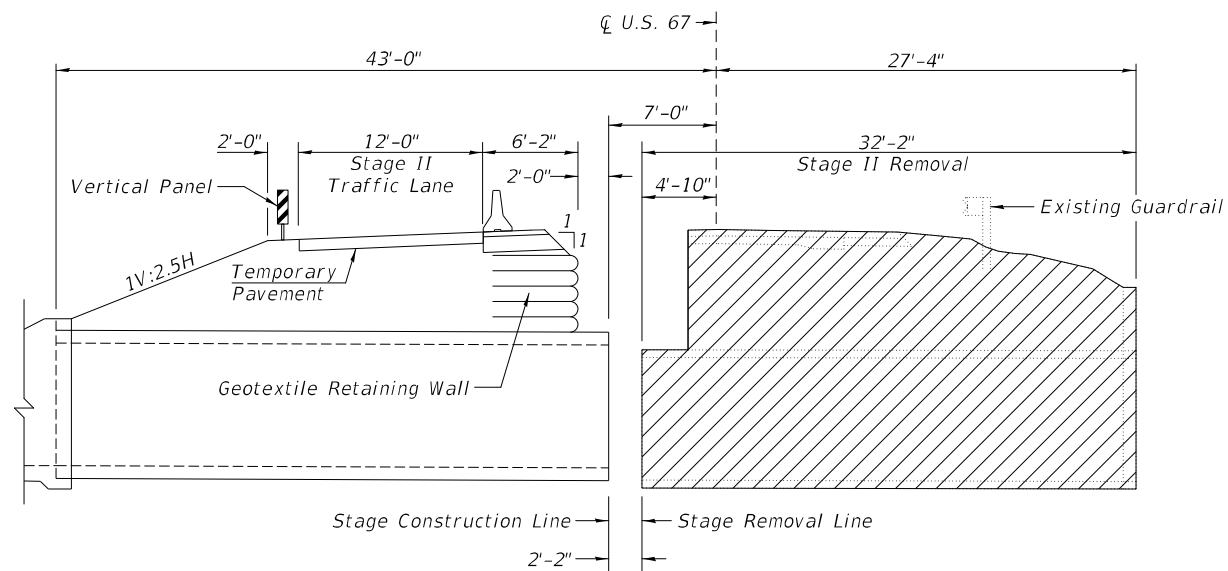
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S.N. 094-2018		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJ. NO.		



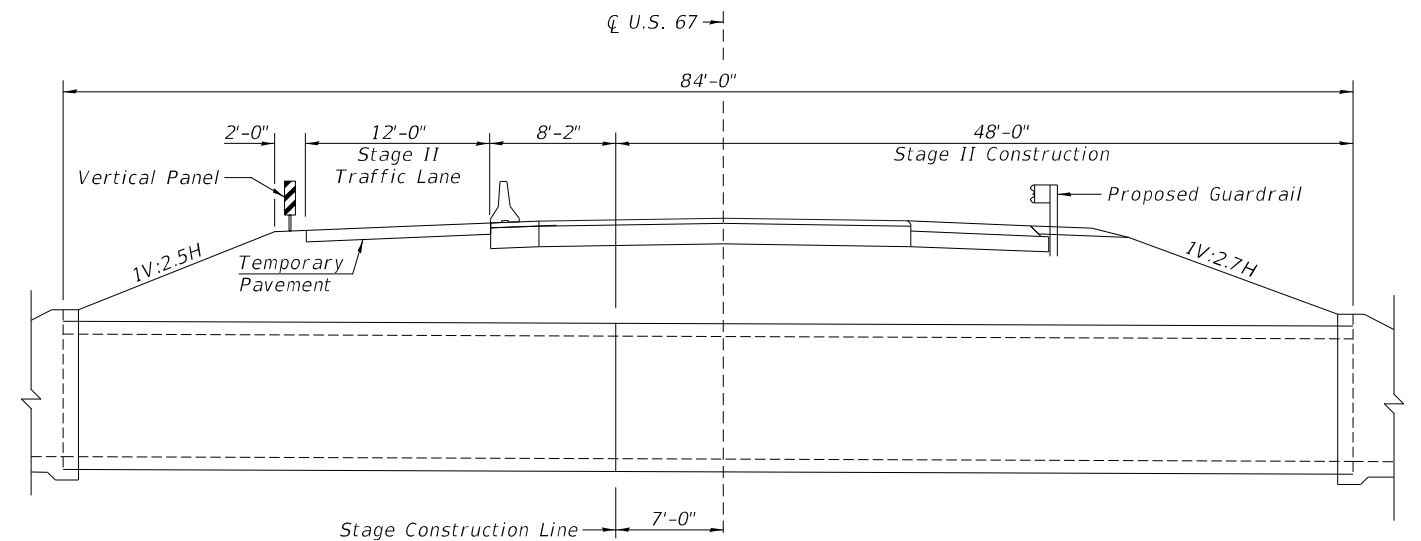
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



STAGE II CONSTRUCTION

STAGE CONSTRUCTION DETAILS
(Looking South)

MODEL: Default
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Hutchison
Engineering, Inc.
Since 1945

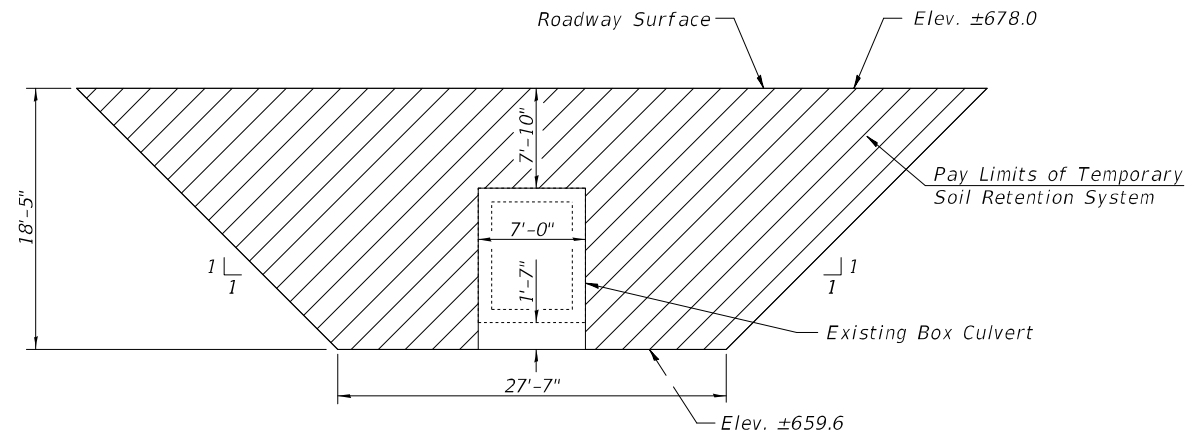
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PLOT DATE = 3/22/2023	DATE - 2/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

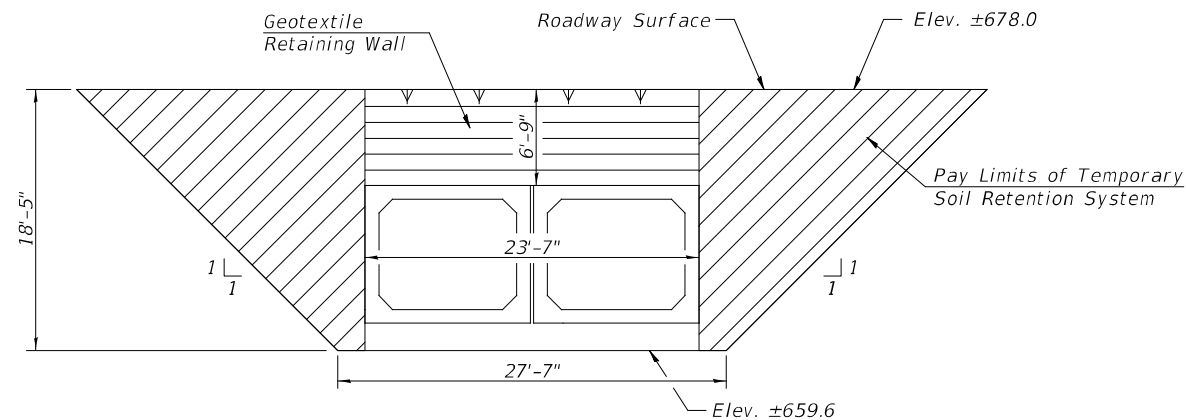
STAGE CONSTRUCTION DETAILS

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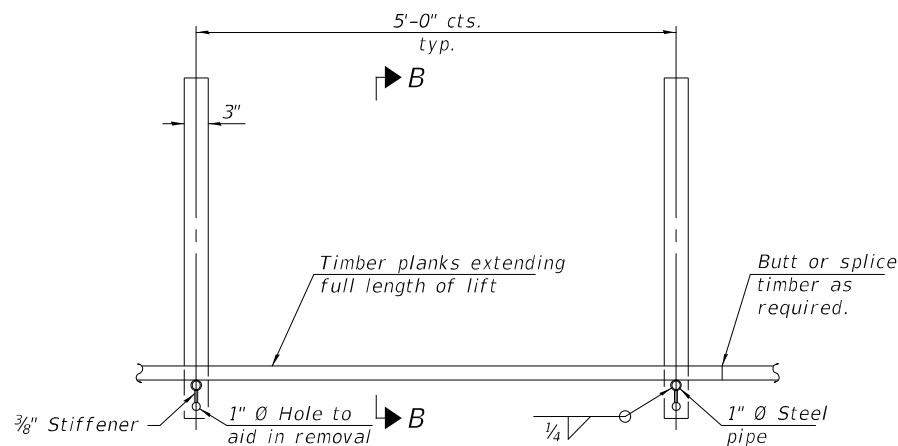
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310	(29.28)W-1	WARREN	277	166
S.N. 094-2018		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJ. NO.		



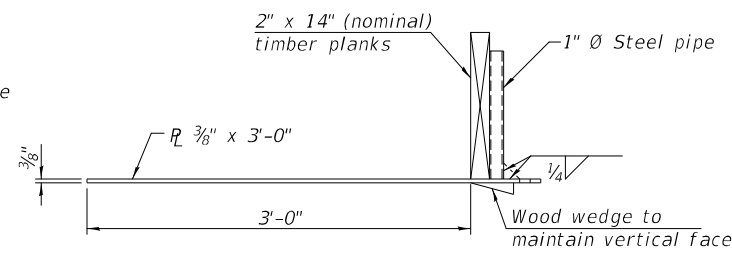
TEMPORARY SOIL RETENTION SYSTEM - STAGE 1
Dimensions are approximate.



TEMPORARY SOIL RETENTION SYSTEM - STAGE 2
Dimensions are approximate.



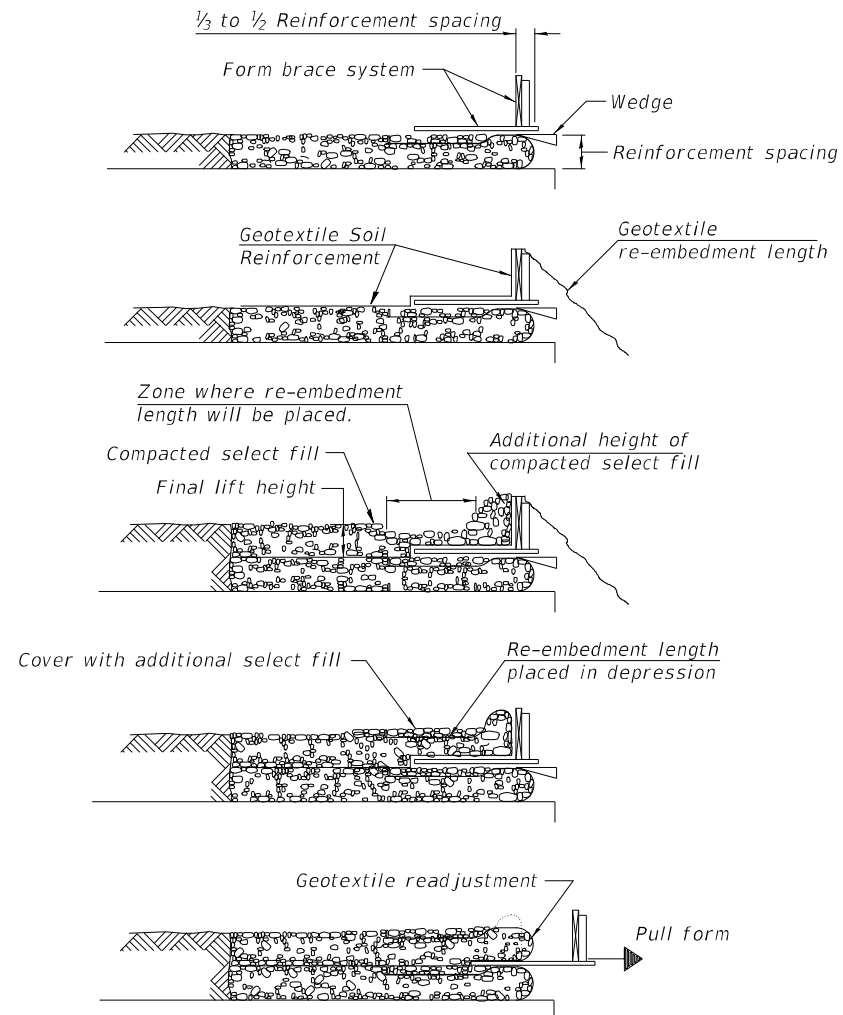
PLAN



SECTION B-B

GEOTEXTILE
FORM BRACE DETAIL

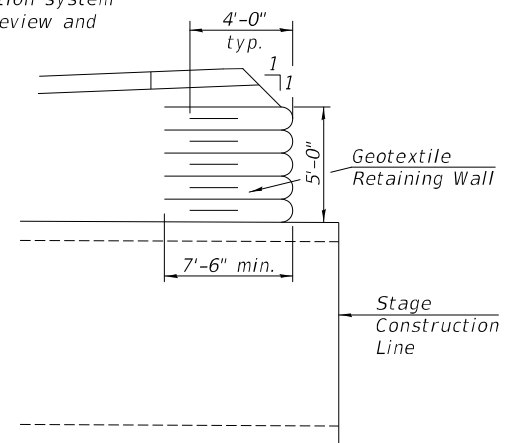
Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.
3. Compact select fill material in lifts to final lift height, create ($\pm 3'$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3'$) to embed geotextile and bring to final lift height.
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

GEOTEXTILE WALL
CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 24 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



GEOTEXTILE
LONGITUDINAL DETAIL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Temporary Soil Retention System	SQ FT	1,186
Geotextile Retaining Wall	SQ FT	118

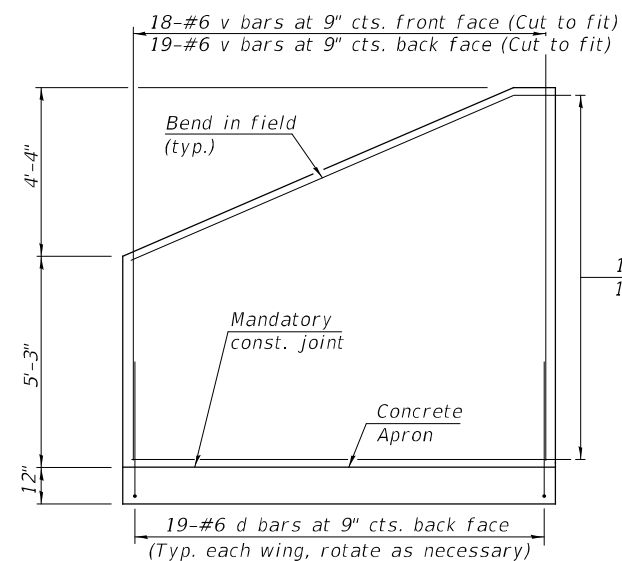
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GEOTEXTILE RETAINING WALL &
TEMPORARY SOIL RETENTION SYSTEM

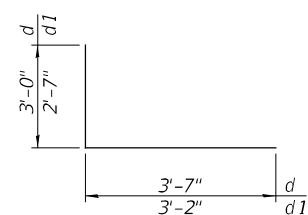
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FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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S.N. 094-2018 CONTRACT NO. 68B60				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJ. NO.				

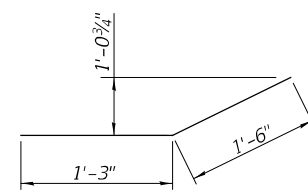
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DRAWN - MMO	REVIS	ED -
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PLOT DATE = 3/22/2023	DATE - 2/14/2023	REVISED -



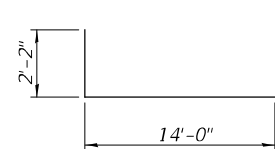
WINGWALL ELEVATION



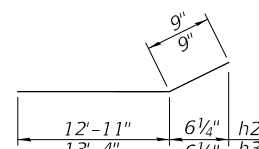
BARS d & d1



BAR a



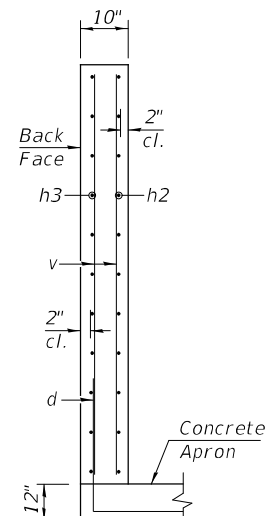
BAR h4



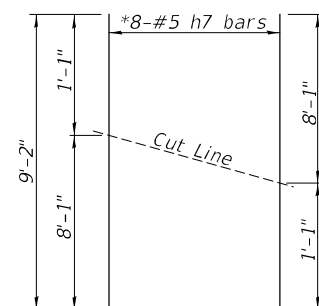
BARS h_2 & h_3

MIN. BAR LAP

#5 = 2'-9" (Horizontal)
 #5 = 2'-2" (Vertical)
 #6 = 3'-4" (Horizontal)
 #6 = 2'-7" (Vertical)

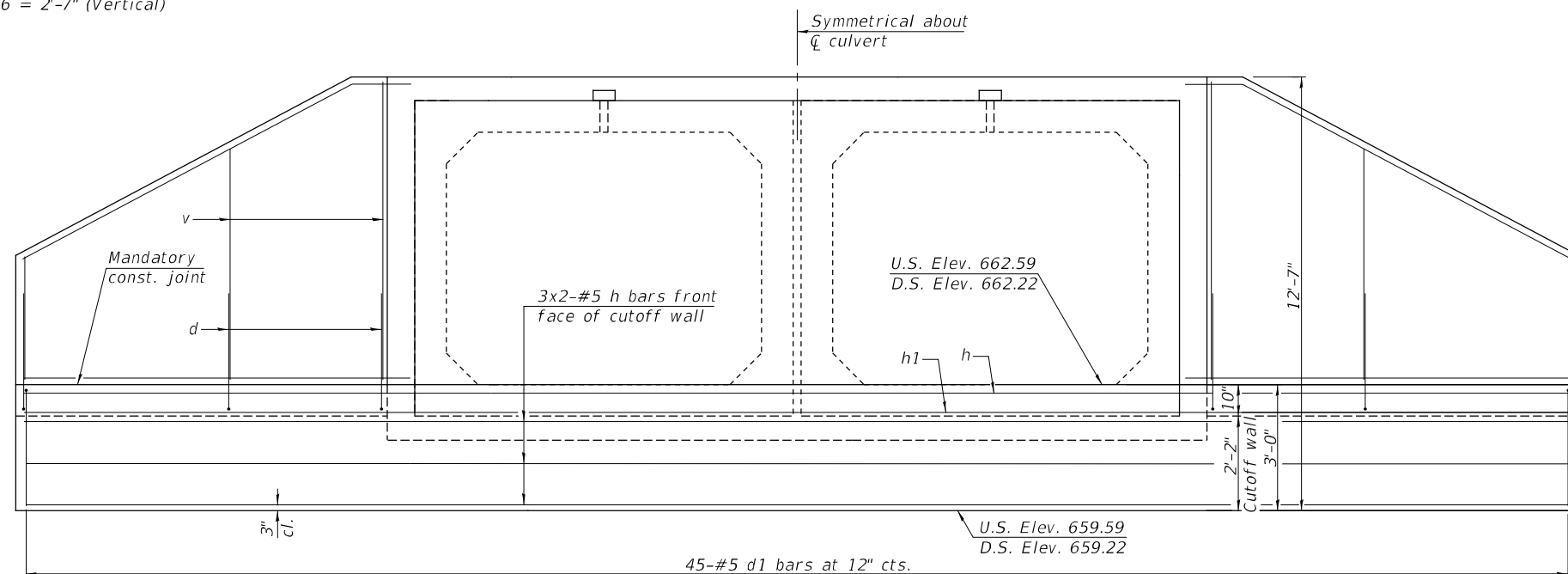


SECTION E-E

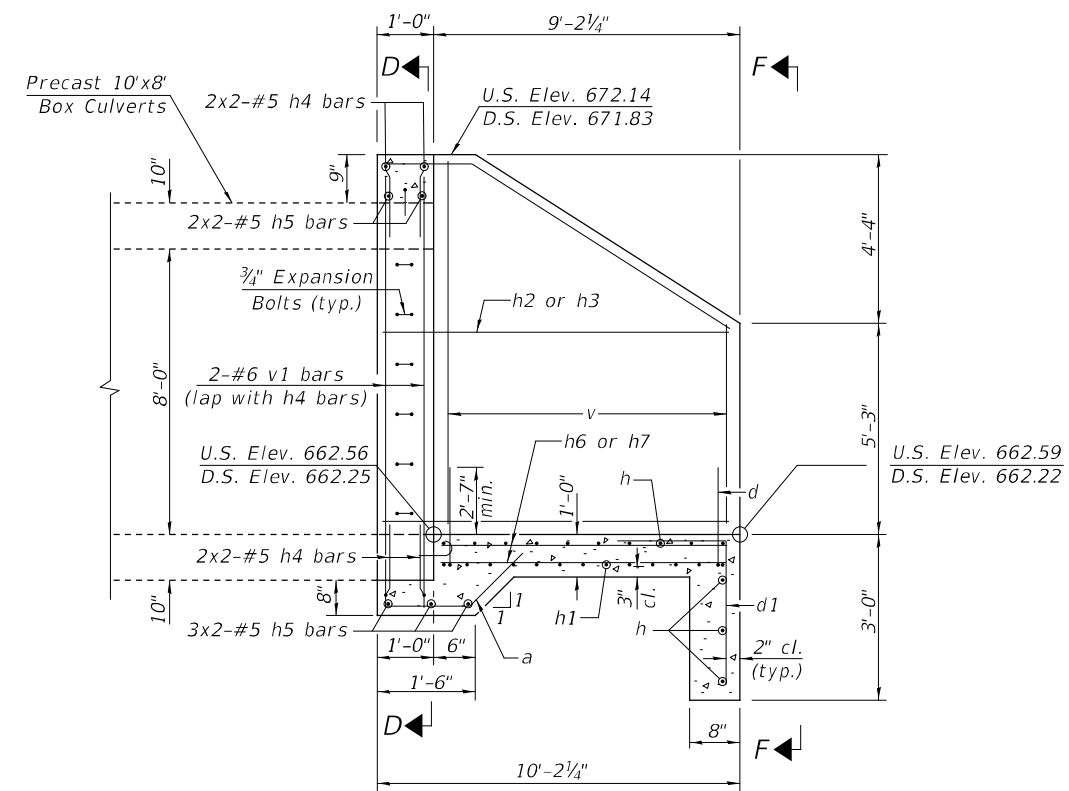


BAR CUTTING DIAGRAM

*Order h7 bars full length. Cut as shown and use remainder of bars in opposite end.



SECTION F-F



SECTION C-C

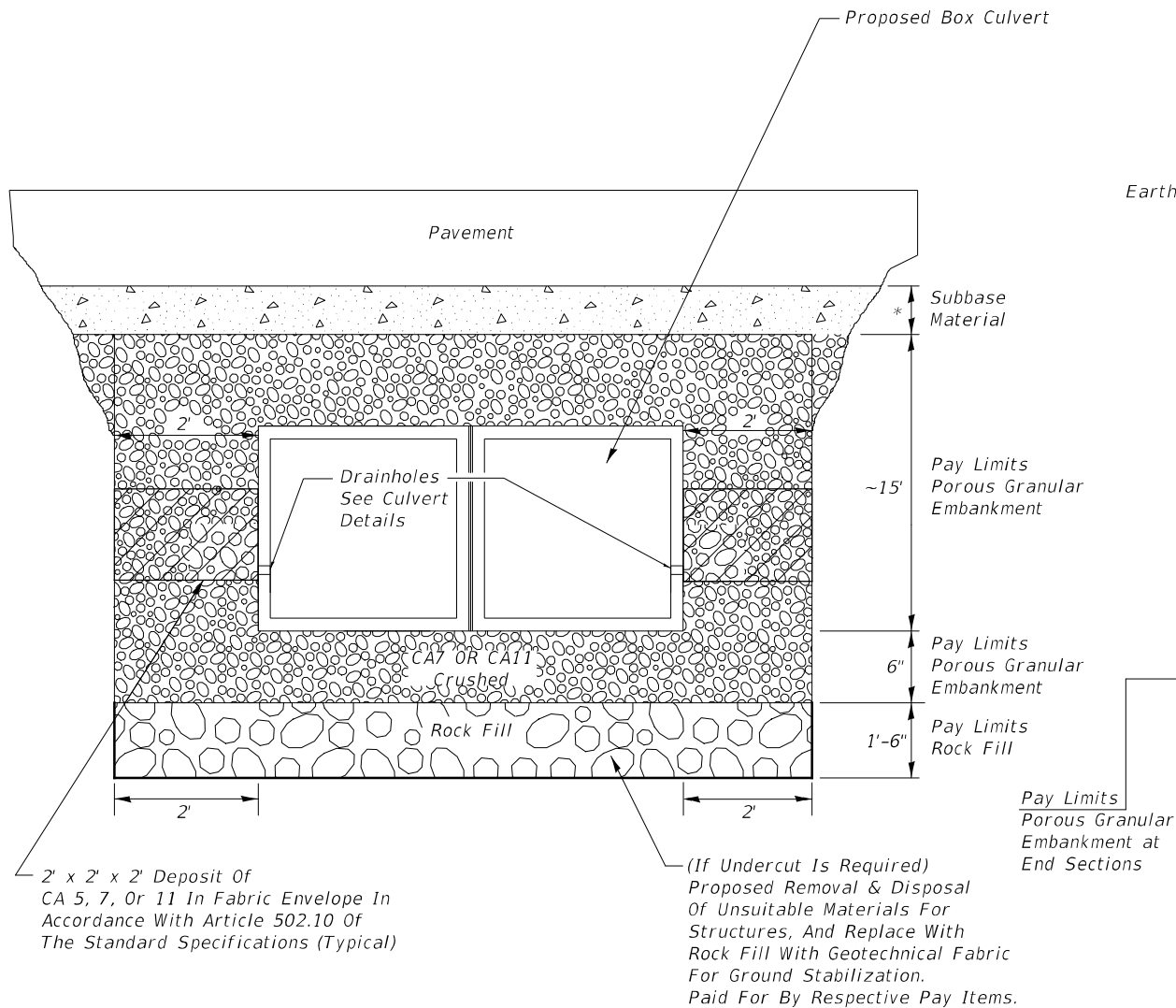
Note:
See sheet 4 of 7 for Section D-D.

ONE END SECTION
BILL OF MATERIAL

(For information only)

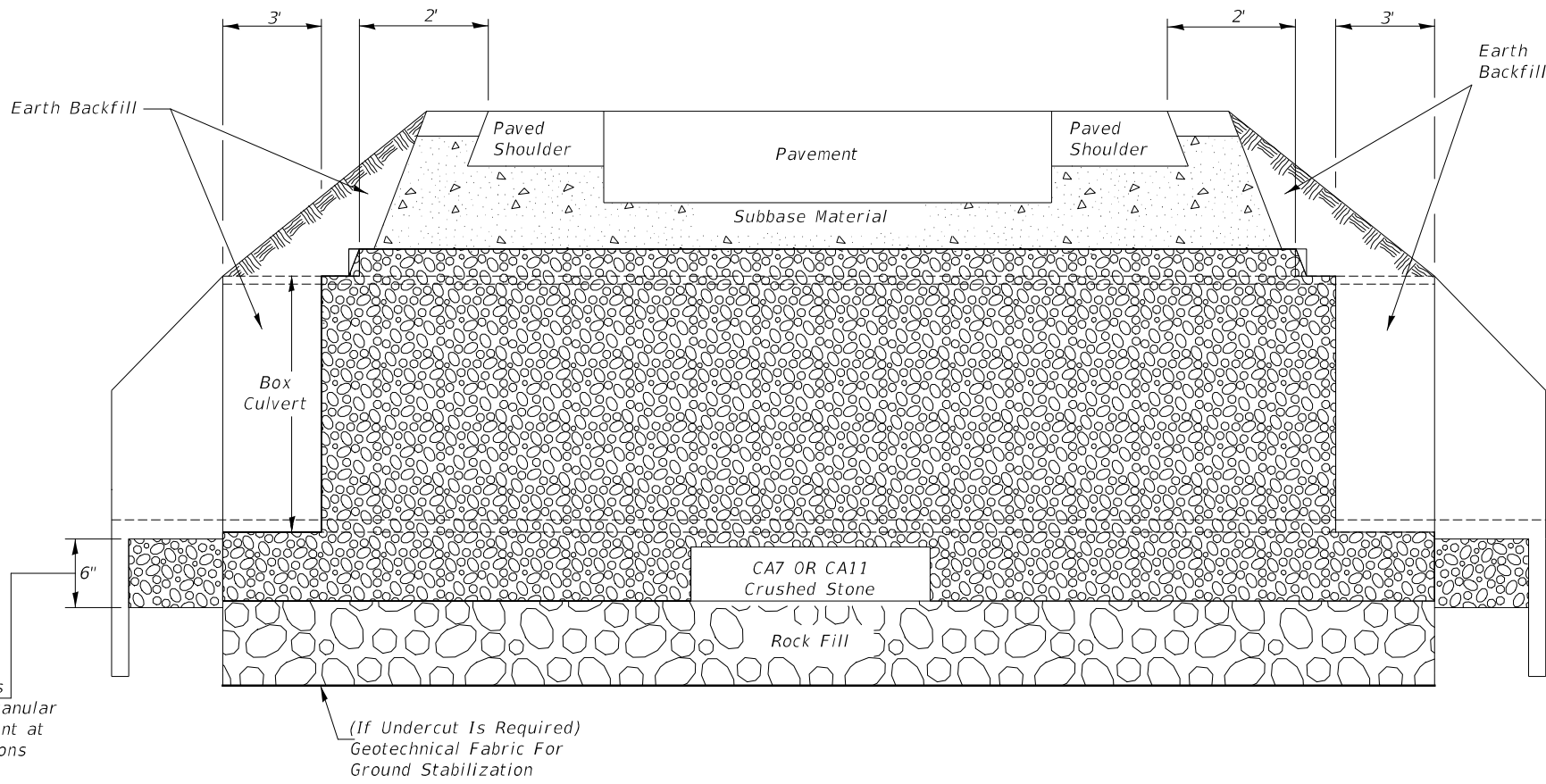
Bar	No.	Size	Length	Shape
a	26	#5	2'-9"	
d	38	#6	6'-7"	
d1	45	#5	5'-9"	
h	26	#5	23'-0"	
h1	26	#6	23'-0"	
h2	22	#5	13'-8"	
h3	22	#5	14'-1"	
h4	8	#5	16'-2"	
h5	10	#5	14'-0"	
h6	56	#5	8'-10"	
h7	16	#5	9'-2"	
v	74	#6	9'-3"	
v1	4	#6	10'-8"	
Concrete Box Culverts			Cu. Yd.	23.2
Reinforcement Bars			Pound	4,920

MODEL Default
FILE NAME: V:\4556 - US 67 over Ditch - IDOT D-41VCADD\CADD Sheets\4556 - 006 094-2018.dgn



ROADWAY PROFILE
VIEW

* Subbase Shall Be 6" Minimum Layer Of CA6 Crushed Stone Or Other Material As Specified In The Plans.



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 Embankment Shall Be Placed In Accordance With Section 207 Of The Standard Specifications.
- If No Undercut Is Required, A 6" Minimum Layer Of Porous Granular Embankment Shall Be Placed Below The Elevation Of The Bottom Of Box Culvert.



Illinois Department
of Transportation
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 8/26/21

ROUTE FAP 310 (US 67) DESCRIPTION Structure Boring for Culvert LOGGED BY Patel (Rubino)

SECTION (29, 28) W-1; 29RS-4, 28RS-5 LOCATION SE 1/4, SEC. 29, TWP. 12N, RNG. 2W, 4th PM,

Latitude 40°59'46.59"N, Longitude 90°37'57.35"W

COUNTY Warren DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 094-1001	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station 1044+43	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. B-104415	T	W	Qu	S	Groundwater Elev.: _____	T	W	Qu	S
Station 1044+15	H	S		T	First Encounter 658.0 ft ▾	H	S		T
Offset 61.0 ft RT					Upon Completion 665.0 ft ▽				
Ground Surface Elev. 669.00 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL, Silty Clay Loam, Some Gravel and Organic Material, Dark Brown, Moist 668.20					End of Boring				
Medium Stiff, Brown SILTY CLAY LOAM, moist 666.00	1		0.8 P	29					
Soft to Medium Stiff, Dark Gray and Brown SILTY LOAM, moist 661.00	1								
	2	1.0		27					
	3	B							
	WOH								
	WOH	0.5		27					
	WOH	B							
Soft, Dark Brown SANDY LOAM to LOAM, moist 658.50	WOH								
	WOH	0.4		28					
	WOH	B							
Very Stiff to Hard, Brown Gray Black and Green SANDY LOAM, moist to wet - possible Weathered Limestone 649.00	16		2.2	19					
	8		B						
	13								
	8								
	6	>4.5		14					
	20	P							
	8								
	10	2.1		23					
	32	B							
	17								
	32	>4.5		13					
	50/3"	P							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 8/26/21

ROUTE FAP 310 (US 67) DESCRIPTION Structure Boring for Culvert LOGGED BY Patel (Rubino)

SECTION (29, 28) W-1; 29RS-4, 28RS-5 LOCATION SE 1/4, SEC. 29, TWP. 12N, RNG. 2W, 4th PM,

Latitude 40°59'45.91"N, Longitude 90°37'56.15"W

COUNTY Warren DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 094-1001	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station 1044+43	E	L	C	O	Stream Bed Elev. _____ ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. B-104439	T	W	Qu	S	Groundwater Elev.: _____	T	W	Qu	S
Station 1044+39	H	S		T	First Encounter 659.0 ft ▾	H	S		T
Offset 51.0 ft LT					Upon Completion 664.0 ft ▽				
Ground Surface Elev. 667.97 ft	(ft)	(/6")	(tsf)	(%)	After _____ Hrs. _____ ft	(ft)	(/6")	(tsf)	(%)
TOPSOIL, Silty Clay Loam, Some Gravel and Organic Material, Dark Brown, moist 666.97					End of Boring				
Soft, Dark Gray, SILTY LOAM, moist to wet 664.97	WOH								
	1	0.3		28					
	2	B							
Very Soft, Gray SILTY LOAM, moist to wet 662.47	WOH								
	WOH			31					
	WOH								
Medium Stiff to Hard, Gray SANDY LOAM, wet 654.97	12								
	4			17					
	5								
	1								
	2			26					
	3								
	10								
	8	>4.5		13					
	26	P							
Very Stiff to Hard, Bluish Gray LOAM to SANDY LOAM, wet - possible weathered limestone 649.97	15								
	8	3.5		23					
	9	P							
	25								
	50/5"	>4.5		19					
	P								
Hard, Gray SANDY LOAM, with rock chips, limestone, wet 647.97	50/3"			13					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL Default
FILE NAME: V:\4559 - US 67 over Ditch - IDOT P7B\49-19 (IDOT D-4)CADD\CADD Sheets\4559 - 0007 094-2018.dgn

Hutchison
Engineering, Inc.
Since 1945

USER NAME = jvWhite	DESIGNED - MMO	REVISED -
DRAWN - MMO	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 3/22/2023	DATE - 2/14/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

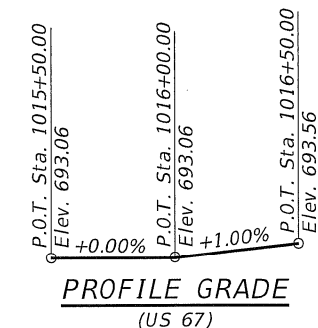
SOIL BORINGS

SCALE: N/A SHEET 7 OF 7 SHEETS

FAP RTE. 310	SECTION (29,28)W-1	COUNTY WARREN	TOTAL SHEETS 277	SHEET NO. 171
S.N. 094-2018		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJ. NO.		

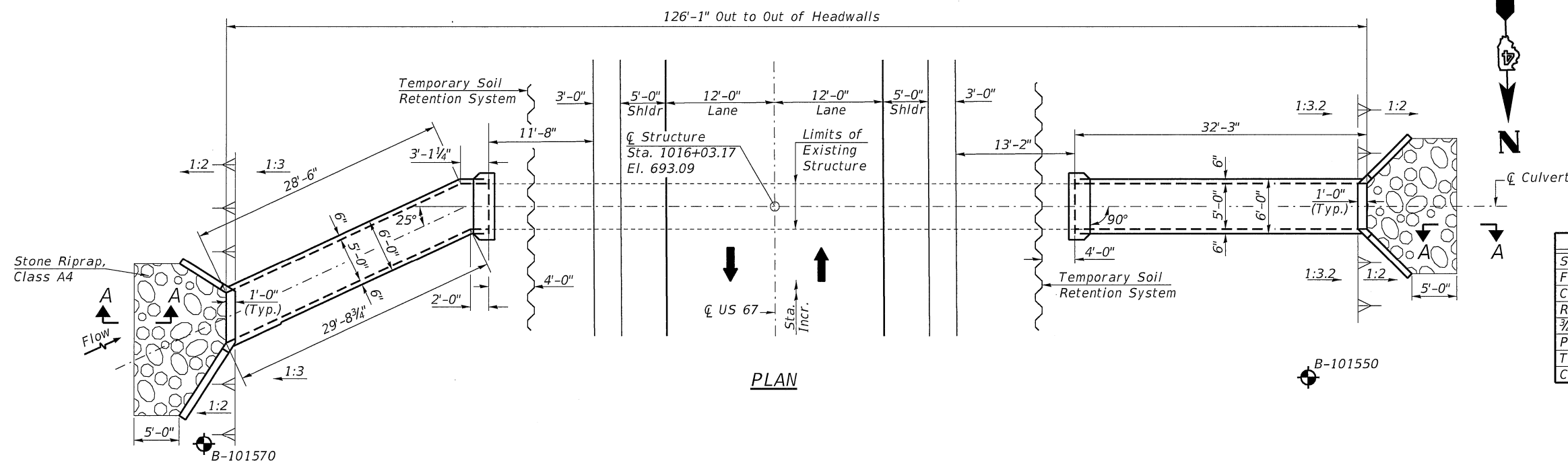
Traffic to be maintained during construction.

Precast culvert option will not be allowed.
All construction joints shall be bonded.
Exposed concrete edges shall have a $\frac{3}{4}$ " chamfer unless otherwise noted.
Layout of the stone riprap/slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
A distance of half the length of the wingwall, but not less than 6 feet of the barrel shall be poured monolithically with the wingwall.
Areas of excavation required for construction of the new culvert shall be backfilled with Porous Granular Embankment up to the top of slab elevation.
The required depth of removal and replacement of unsuitable materials may be adjusted by the Engineer to account for variable subsurface conditions.
Plan dimensions and details relative to the existing structure have been taken from 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.

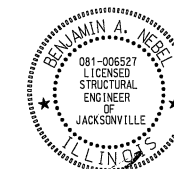
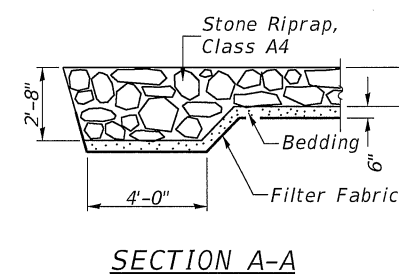


1. General Plan and Elevation
2. Concrete Removal & Temporary Soil Retention System
- 3.-4. Culvert Details
5. Detail of Excavation and Backfill for Box Culvert at Station 1016+03.17
6. Soil Borings

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	SQ YD	30
Filter Fabric	SQ YD	30
Concrete Box Culverts	CU YD	41.6
Reinforcement Bars	POUND	8,580
¾" Ø Expansion Bolts	EACH	24
Porous Granular Embankment	CU YD	65
Temporary Soil Retention System	SQ FT	270
Concrete Removal	CU YD	3.0



LOCATION SKETCH



SIGNATURE: _____
DATE SIGNED: 3/22/2021
LICENSE EXPIRES: 11/30/2022

GENERAL PLAN AND ELEVATION
F.A.P. 310 (US 67) OVER DRAINAGE DITCH
SEC. (29,28)W-1
WARREN COUNTY
STATION 1016+03.17

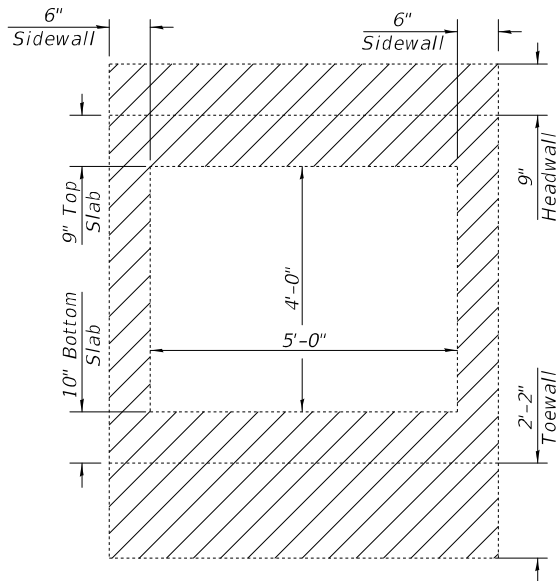
USER NAME = JWhite	DESIGNED - MMO
	DRAWN - MMO
PLOT SCALE = 100.0000 ' / in.	CHECKED - ZL/BAN
PLOT DATE = 3/22/2023	DATE - 2/15/2023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

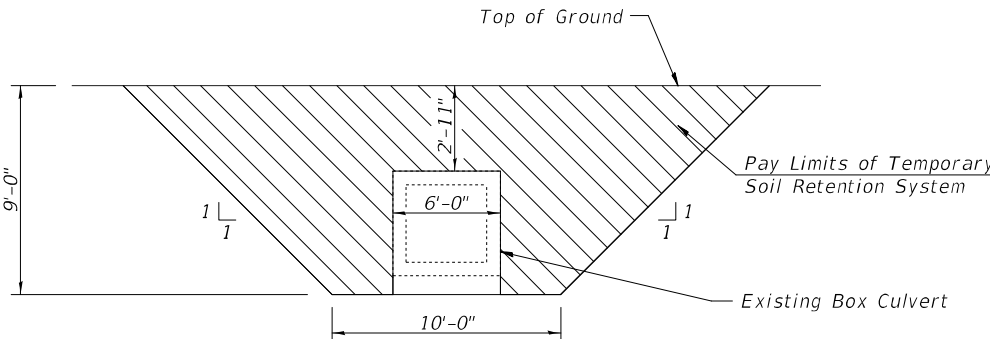
GENERAL PLAN AND ELEVATION

SCALE: N/A	SHEET 1	OF 6	SHEETS
------------	---------	------	--------

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(29,28)W-1	WARREN	277	17
		CONTRACT NO. 68B60		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJ. NO.		



SECTION B-B
Dimensions are approximate.



TEMPORARY SOIL RETENTION SYSTEM

Dimensions are approximate.
(Both Ends)

Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



PLAN - CONCRETE REMOVAL

LEGEND

-  Concrete Removal
-  Temporary Soil Retention System

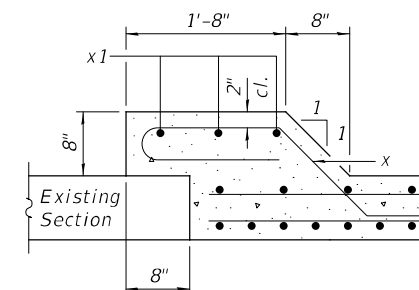
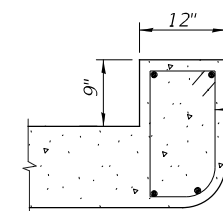
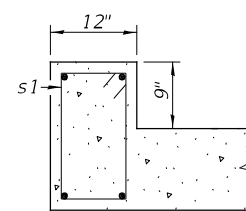
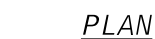
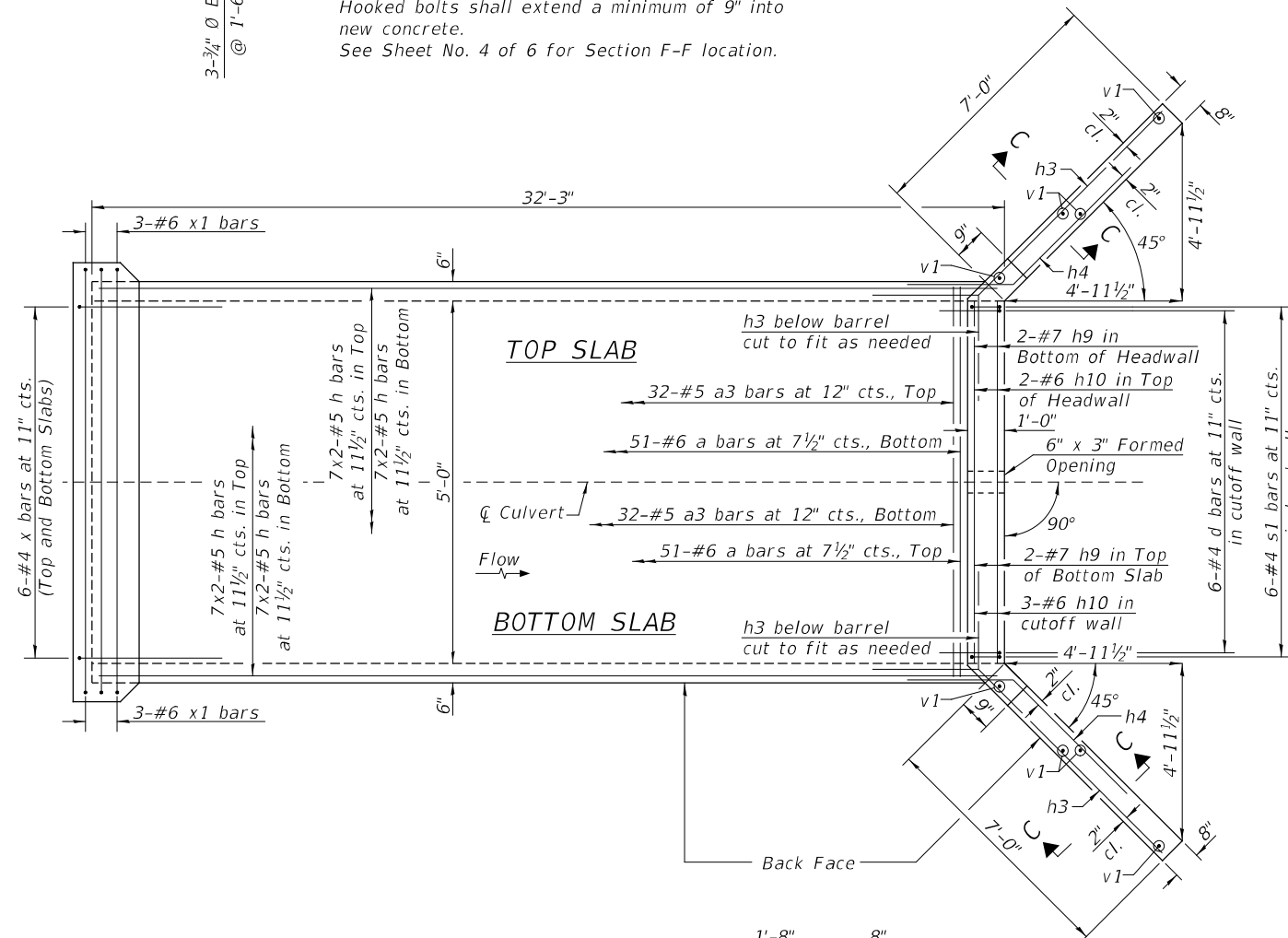
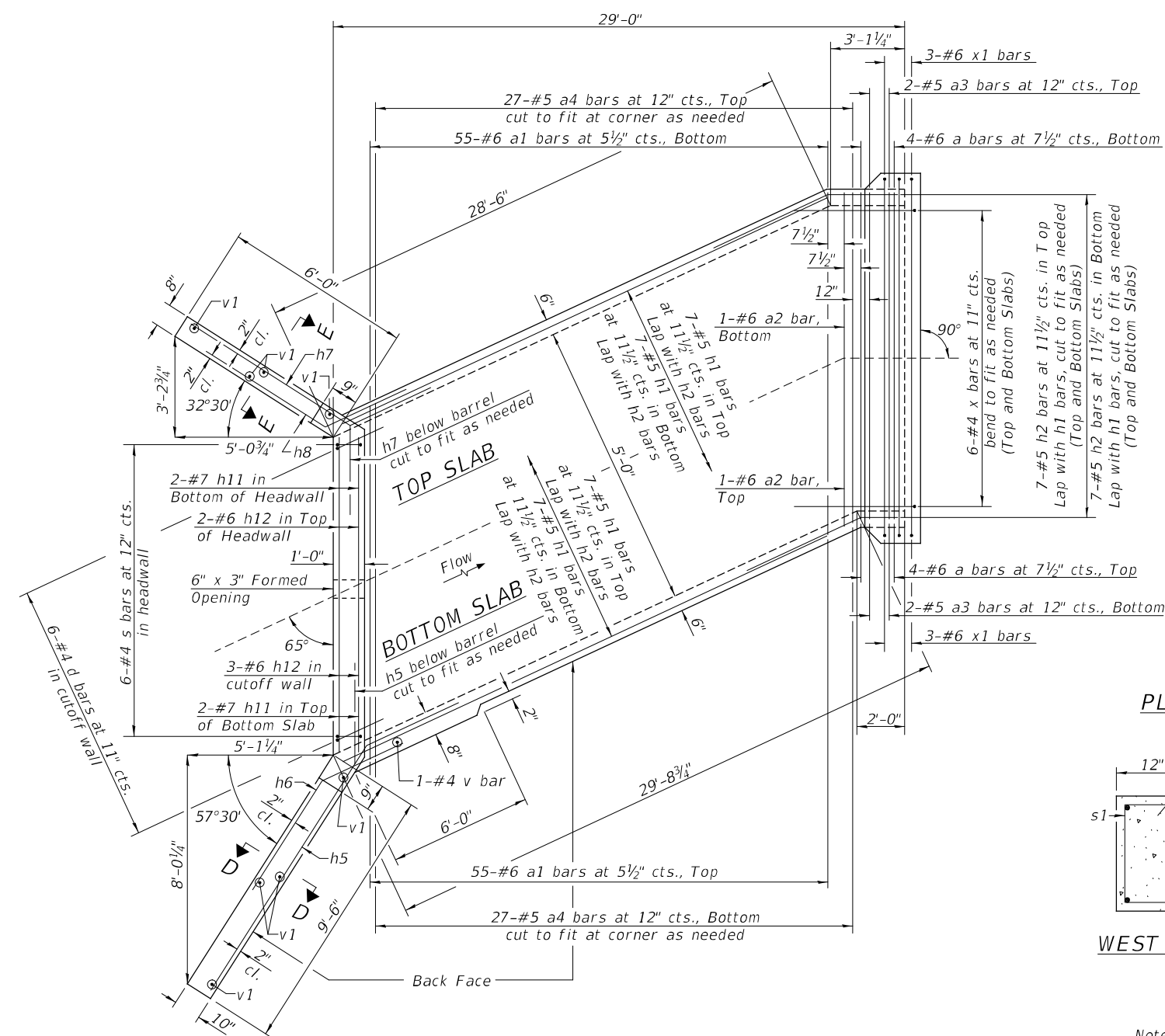
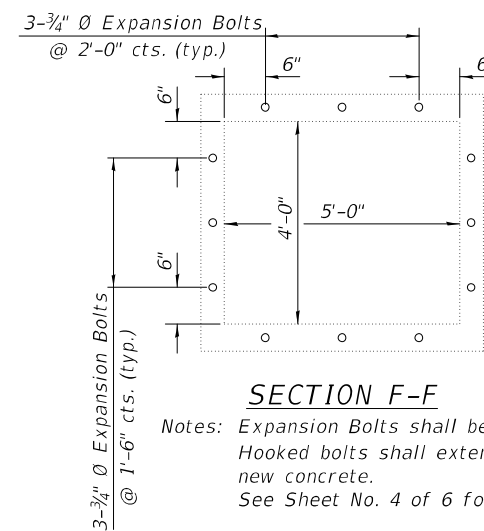
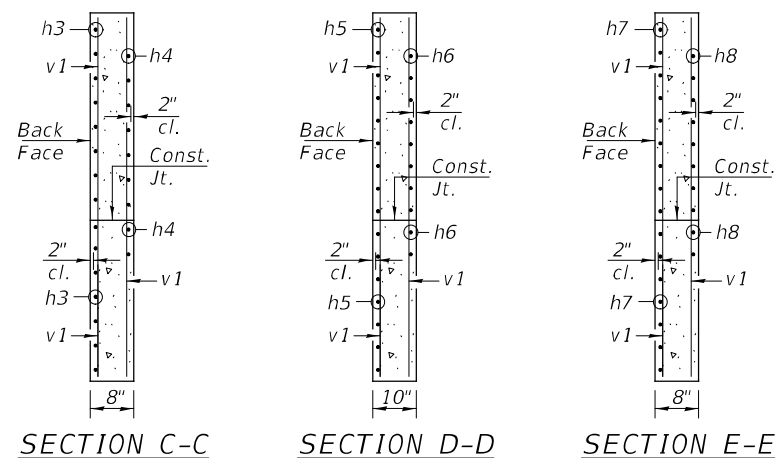
Note:
Existing longitudinal reinforcement extending into removal area shall be cleaned, straightened, and incorporated into the new construction. Any reinforcement bars that are damaged during Concrete Removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

BILL OF MATERIAL

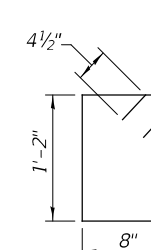
ITEM	UNIT	TOTAL
Temporary Soil Retention System	SQ FT	270
Concrete Removal	CU YD	3.0

USER NAME = JWhite	DESIGNED - MMO	REVISED -
DRAWN - MMO	REVIS	ED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 3/22/2023	DATE - 2/15/2023	REVISED -

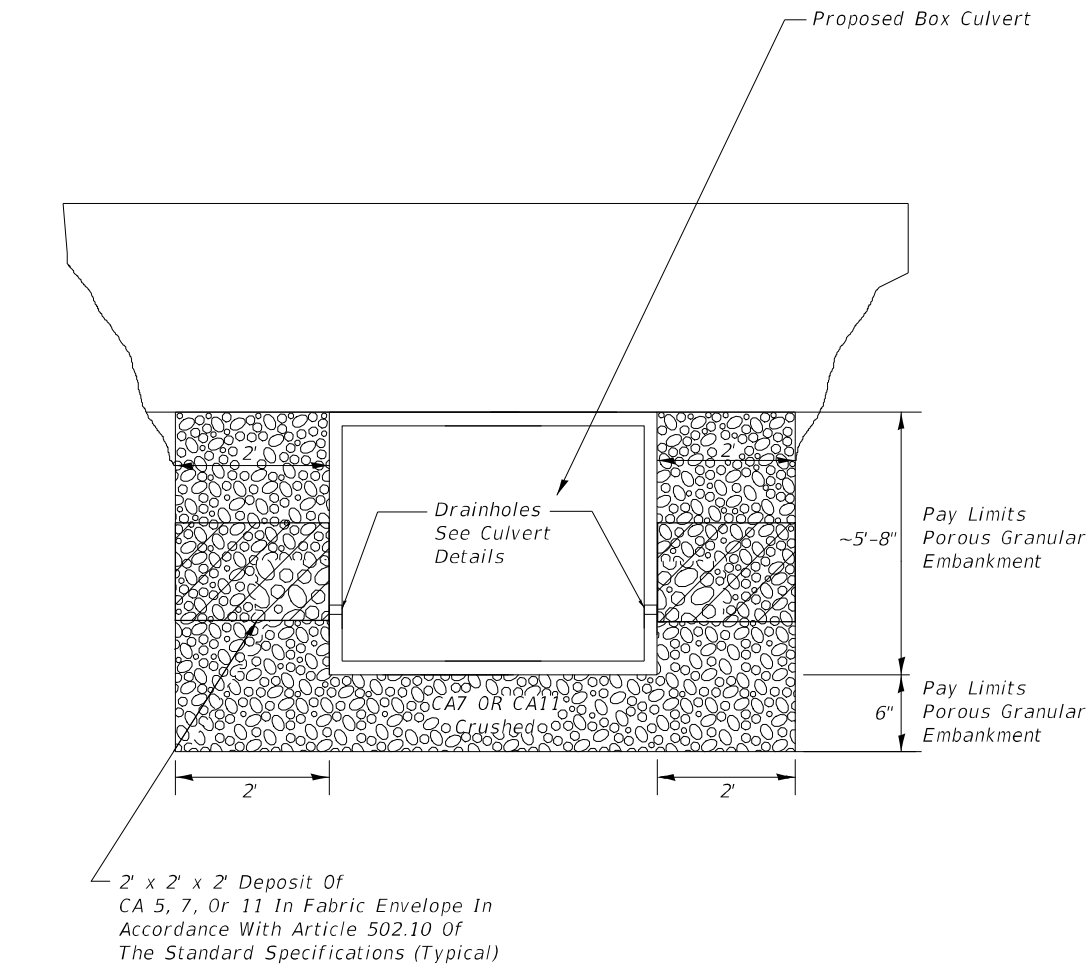
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(29.28)W-1	WARREN	277	173
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJ. NO.				

DETAIL A

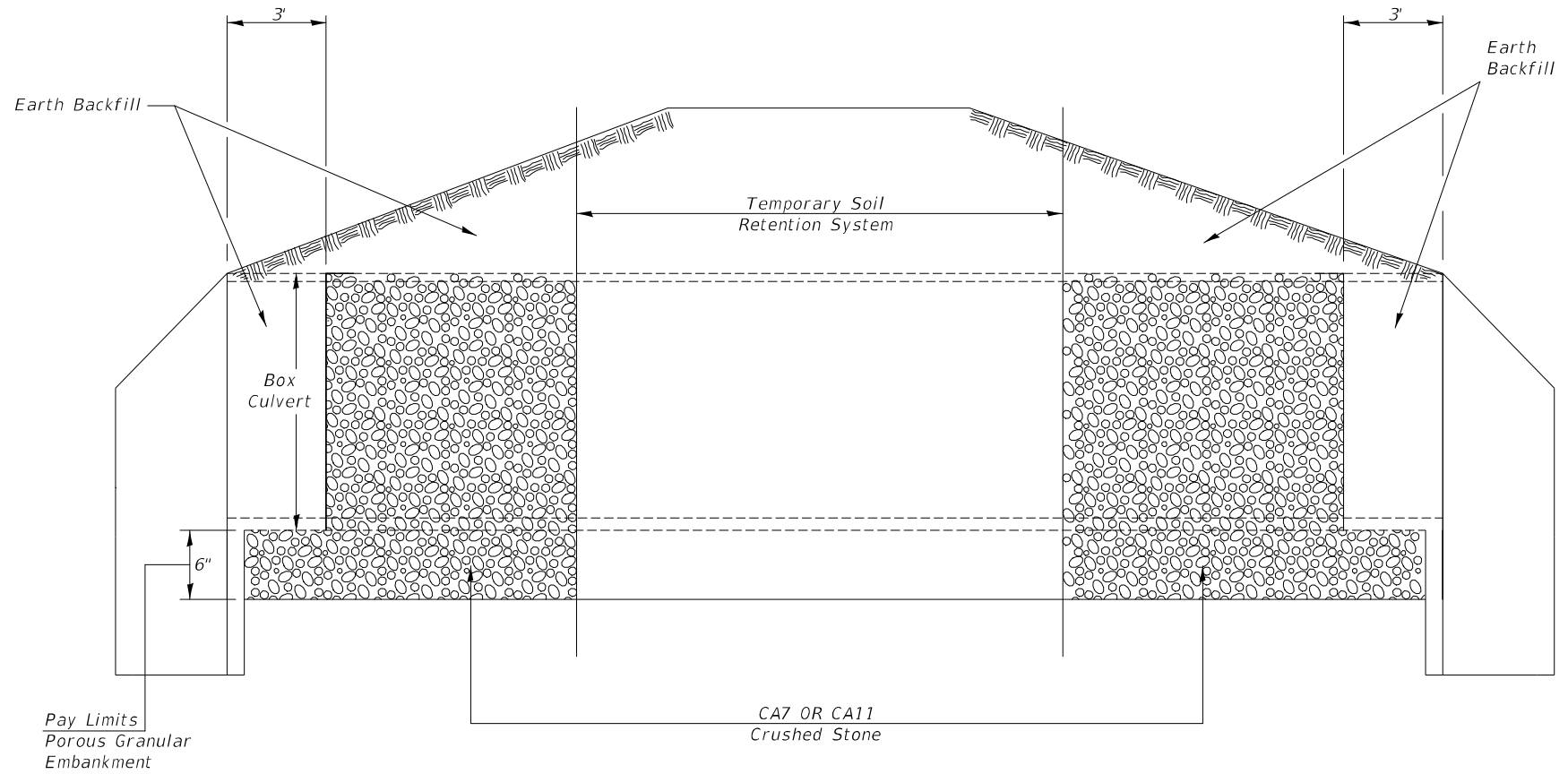
Note: See Sheet No. 4 of 6 for Detail A location.



MODEL: Default
FILE NAME: V:\1656 - US 67 over Ditch - IDOT D-11\CA00\CADD Sheets\1656 - 005 Culvert Extension.dgn



ROADWAY PROFILE
VIEW



ROADWAY CROSS SECTION
VIEW

NOTES:

1. Except As Specified In This Detail, The Placement And Compaction Of Backfill Shall Be In Accordance With Article 502.10 Of The Standard Specifications.
2. Porous Granular Embankment Shall Be Placed In Accordance With Section 207 Of The Standard Specifications.
3. If No Undercut Is Required, A 6" Minimum Layer Of Porous Granular Embankment Shall Be Placed Below The Elevation Of The Bottom Of Box Culvert.



**Illinois Department
of Transportation**
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 9/15/21

ROUTE FAP 310 (US 67) DESCRIPTION Structure Boring for Culvert LOGGED BY Patel (Rubino)

SECTION (29, 28) W-1; 29RS-4, 28RS-5 LOCATION NW 1/4, SEC. 28, TWP. 12N, RNG. 2W, 4th PM,
Latitude 41° 0'12.71"N, Longitude 90°37'46.92"W

COUNTY Warren DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
	1016+10	(ft)	(/6")	(tsf)	(%)							
BORING NO.	B-101550											
Station	1015+50											
Offset	59.0 ft RT											
Ground Surface Elev.	677.64	ft										
Very Stiff, Dark Brown SILTY CLAY, trace gravel, moist												
		1										
		WOH		3.0	28							
	674.64	1		P								
Hard, Brown and Gray SILTY CLAY LOAM, moist												
		1										
		WOH		>4.5	19							
	672.14	-5		P								
Hard, Gray SILTY LOAM												
		31										
		50/5"		>4.5	6							
				P								
		50/5"		>4.5	6							
				P								
	667.14	-10										
Stiff, Gray SILTY LOAM												
		50/4"		1.0	9							
				S								
		50/4"		Dist.	24							
	662.14	-15										
Hard, Gray SANDY LOAM												
		12										
		50/4"		NP	8							
	660.04											
	659.84											
Auger Refusal at 17.6 ft Very Dense, Gray SILTY SAND												
End of Boring												
		-20										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



**Illinois Department
of Transportation**
Division of Highways
Terracon

SOIL BORING LOG

Page 1 of 1

Date 9/15/21

ROUTE FAP 310 (US 67) DESCRIPTION Structure Boring for Culvert LOGGED BY Patel (Rubino)

SECTION (29, 28) W-1; 29RS-4, 28RS-5 LOCATION NW 1/4, SEC. 28, TWP. 12N, RNG. 2W, 4th PM,
Latitude 41° 0'12.42"N, Longitude 90°37'45.41"W

COUNTY Warren DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.
	1016+10	(ft)	(/6")	(tsf)	(%)							
BORING NO.	B-101570											
Station	1015+70											
Offset	58.0 ft LT											
Ground Surface Elev.	679.09	ft										
TOPSOIL, Silty Clay Loam, little gravel and organic material, dark brown												
		2										
Soft, Dark Brown SILTY CLAY LOAM, moist												
		1		0.3	31							
		1		P								
	676.09											
Medium stiff, Gray, SANDY LOAM, moist												
		3										
		4			24							
		-5										
	673.59											
Hard, Gray SILTY LOAM												
		10										
		11		6.7	8							
		18		S								
		16										
		24		>4.5	7							
		41		P								
	673.59	-10										
		36										
		50/4"		>4.5	6							
				P								
		50/3"		>4.5	11							
				P								
	663.59	-15										
Hard, Black COAL or SHALE, trace fines, moist												
		50/4"			26							
	661.09											
Hard, Gray SILTY LOAM												
		24										
		40		6.2	9							
		50/4"		S								
	659.09	-20										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

MODEL Default
FILE NAME: V:\4559 - US 67 over Ditch - IDOT P7B149-19 (IDOT D-11/CADD/CADD Sheets\4559 - 2006 Culvert Extension.dgn

Hutchison
Engineering, Inc.
Since 1945

USER NAME = JWhite	DESIGNED - MMO	REVISED -
DRAWN - MMO	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED - ZL/BAN	REVISED -
PLOT DATE = 3/22/2023	DATE - 2/15/2023	REVISED -

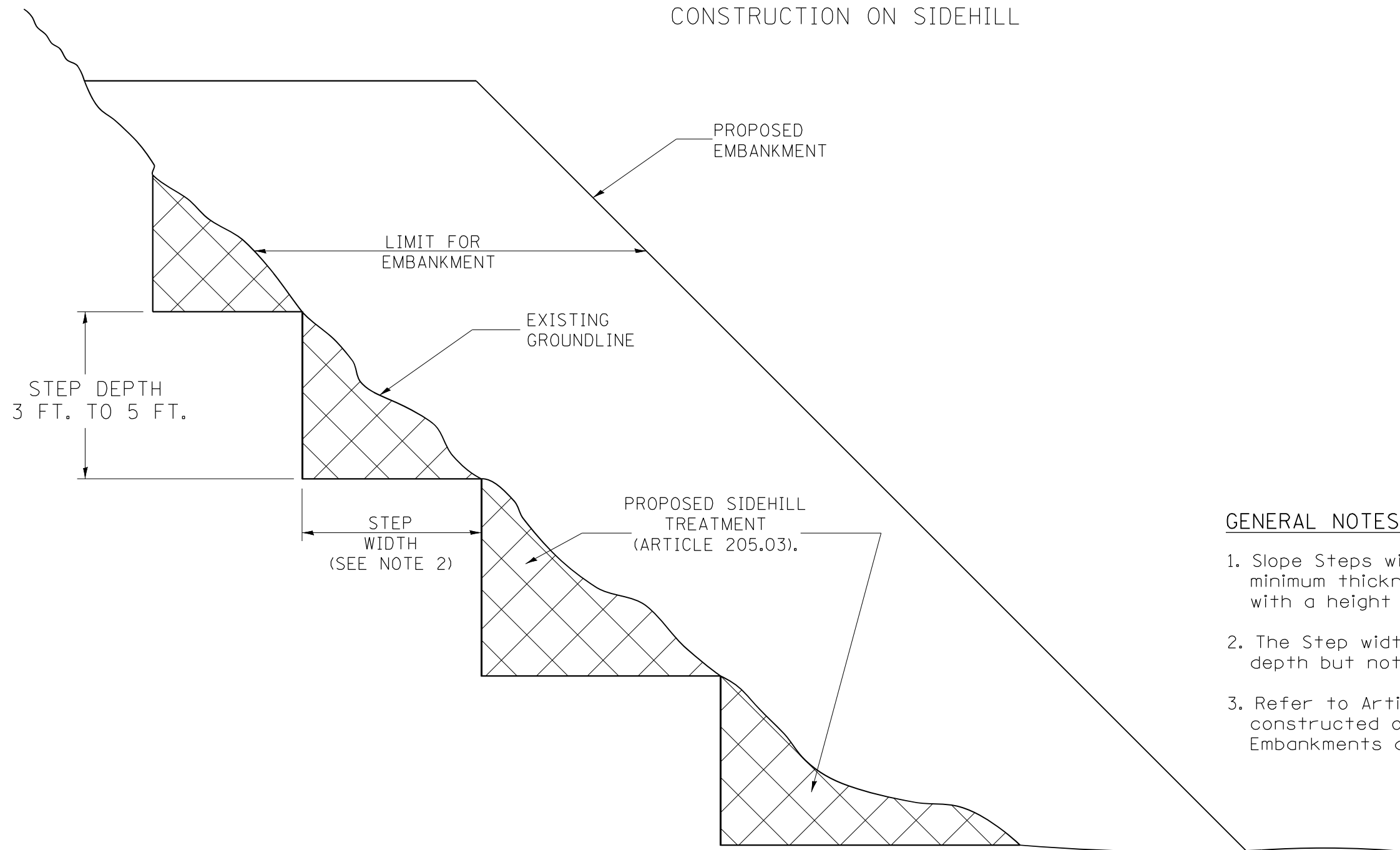
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOIL BORINGS

SCALE: N/A SHEET 6 OF 6 SHEETS

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	(29,28)W-1	WARREN	277	177
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJ. NO.				

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



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.

DESIGNER NOTE:

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

REPLACEMENT MATERIAL:



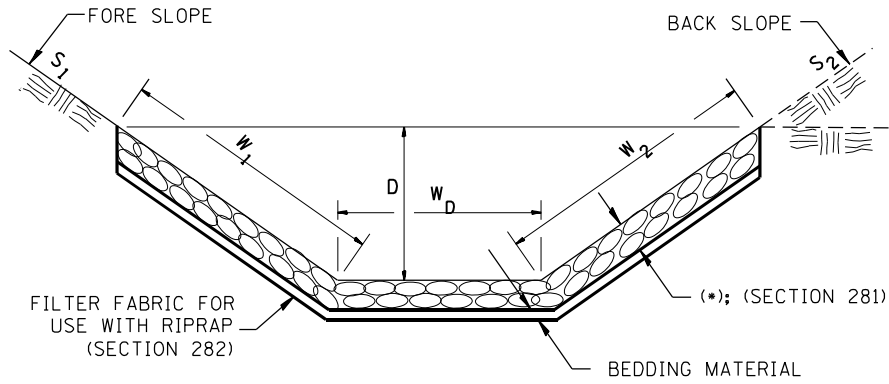
STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.				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.
	BOX, REVISED GENERAL NOTES.									310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	178
10-16-06	REVISED TO 2007 SPEC.	M.A.								CONTRACT NO. 68B60				
5-30-18	MINOR CORRECTION	R.D.												

Designer NOTES:

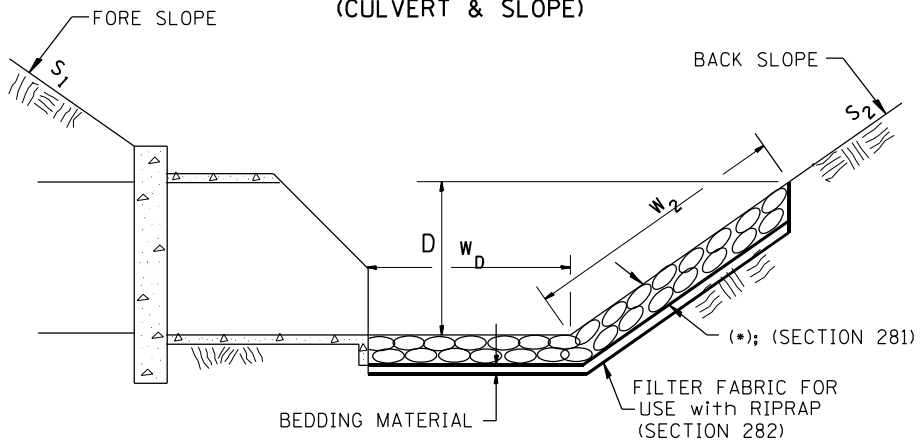
CASE 1



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

$$(1) \text{ WIDTH} = W_1 + W_2 + W_D$$

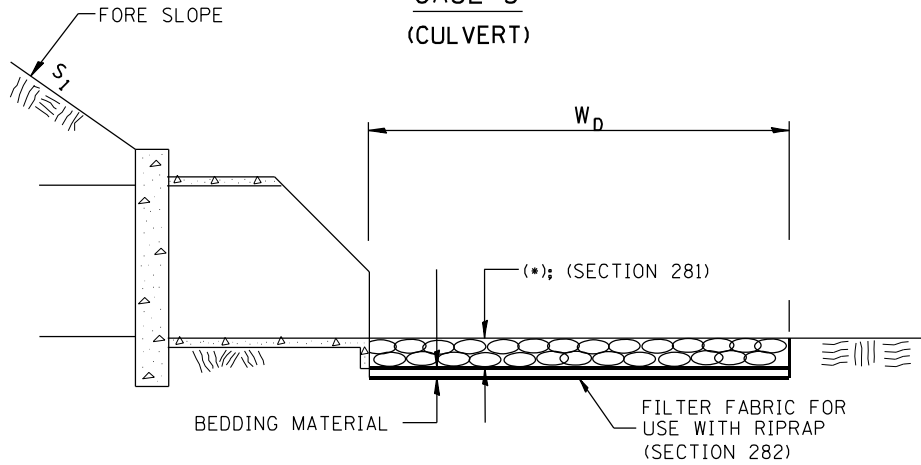
CASE 2



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

$$(1) \text{ WIDTH} = W_2 + W_D$$

CASE 3



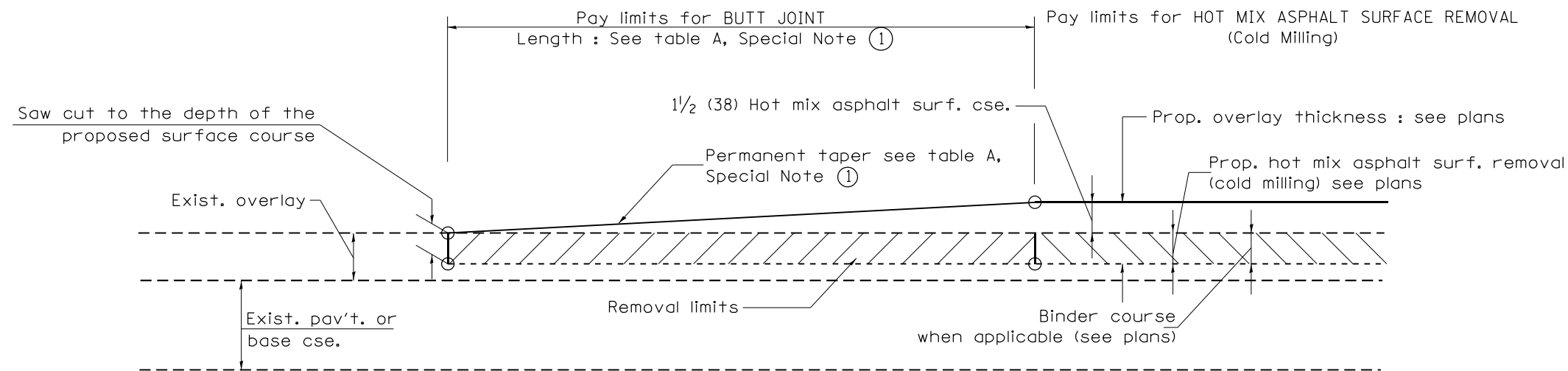
(*)				
LOCATION	WIDTH (1)	LENGTH	RIPRAP	FABRIC
STA TO STA	lin ft (m)	lin ft (m)	tons (m tons)	sq yds (m ²)
TOTAL				

(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.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIPRAP DITCH FOR EROSION PROTECTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
12-1-97	CORRECT FILTER FABRIC LEADER ARROW	J.A.						310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	179	
10-16-06	REVISED TO 2007 SPEC.	M.A.						CONTRACT NO. 68B60					
9-6-12	REMOVED A DESIGNER NOTE AND MADE MINOR CHANGES	R.D.						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
NOT TO SCALE							CADD STD. 281001-D4						



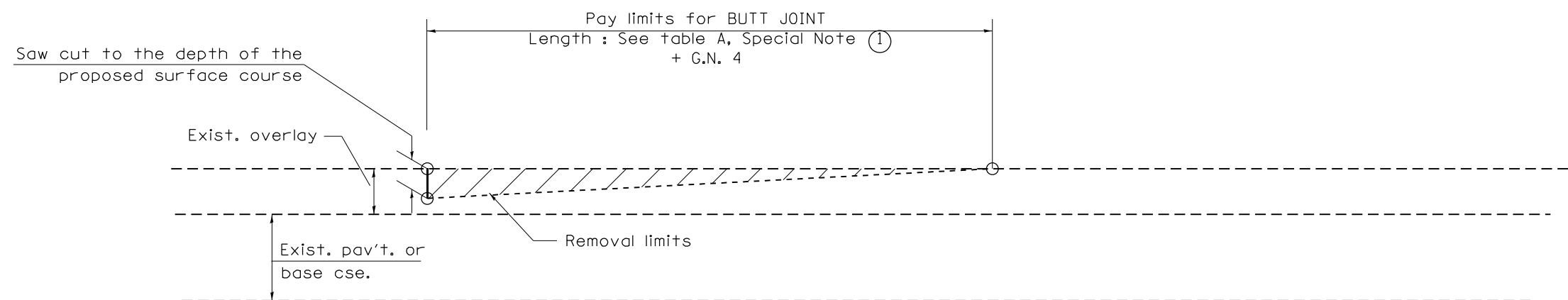
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

**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

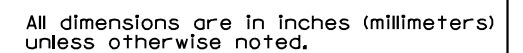
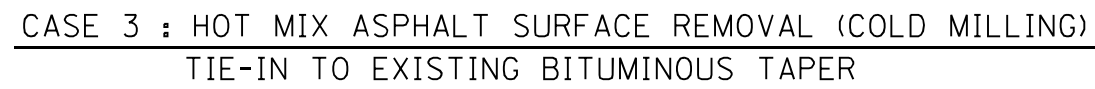
1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw 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.

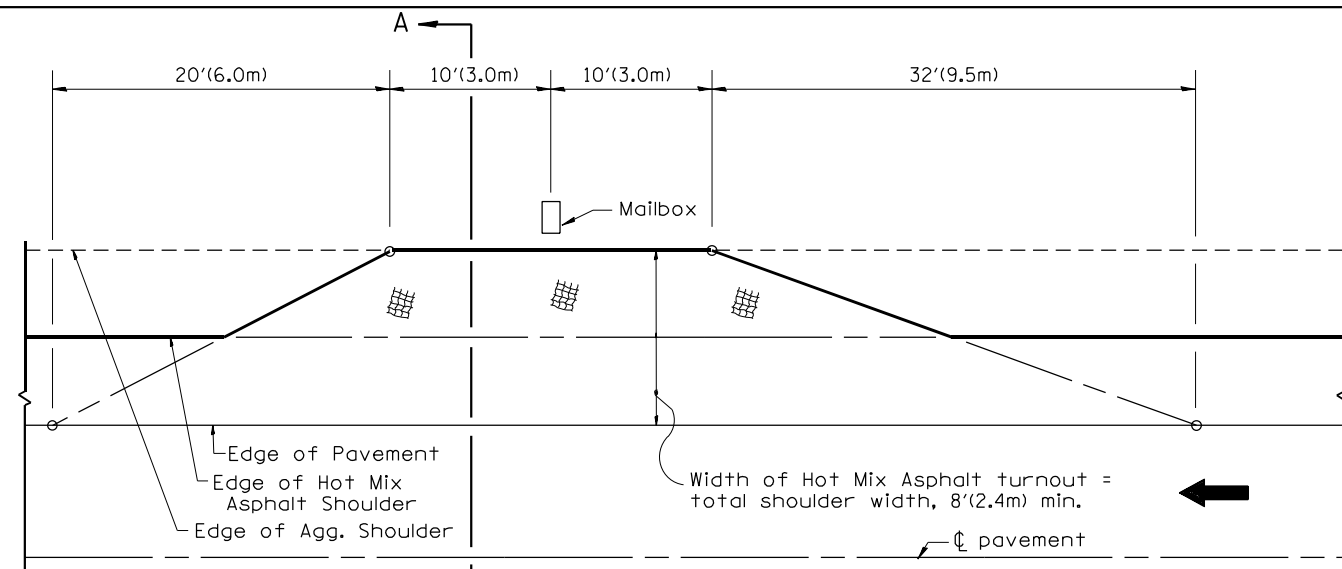
01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINTS	SHT. 1 OF 3 CADD STD. 406101-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-01-97	CORRECTION TO DEPTH	J.A.	04-12-16	MINOR CORRECTIONS	R.D.				310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	180
09-15-05	REVISED DESIGNER NOTE	M.M.A.	02-14-17	ADDED NOTE 5	R.D.				CONTRACT NO. 68B60				
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				
NOT TO SCALE													

[illegible]

[illegible]

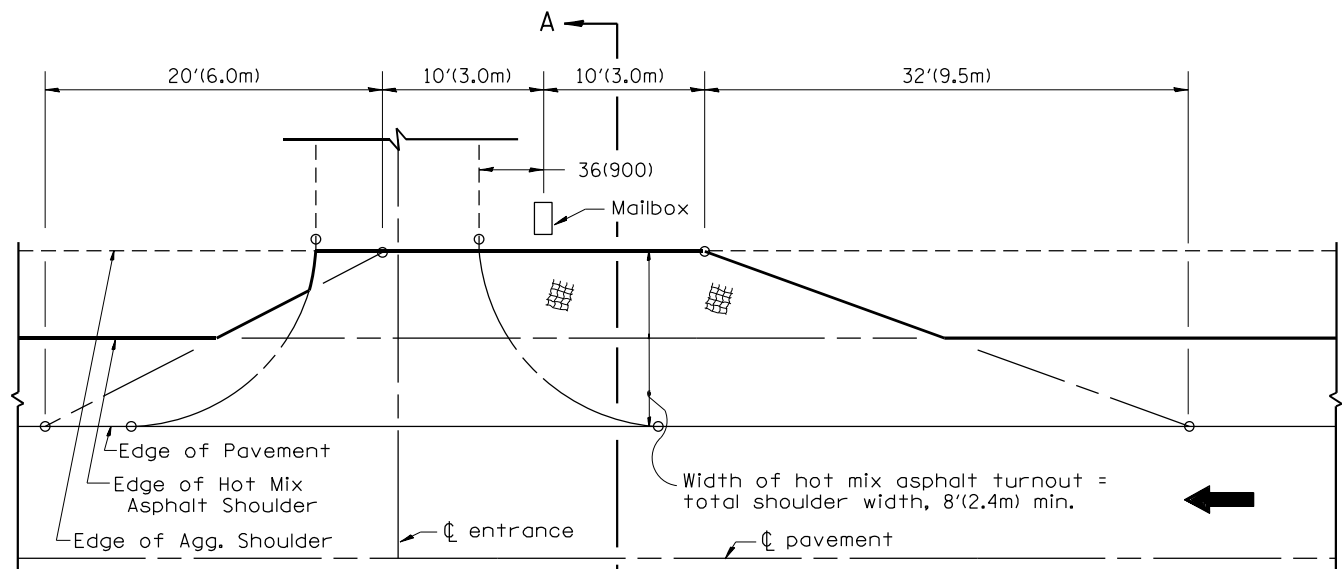
DESIGNER NOTES:

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



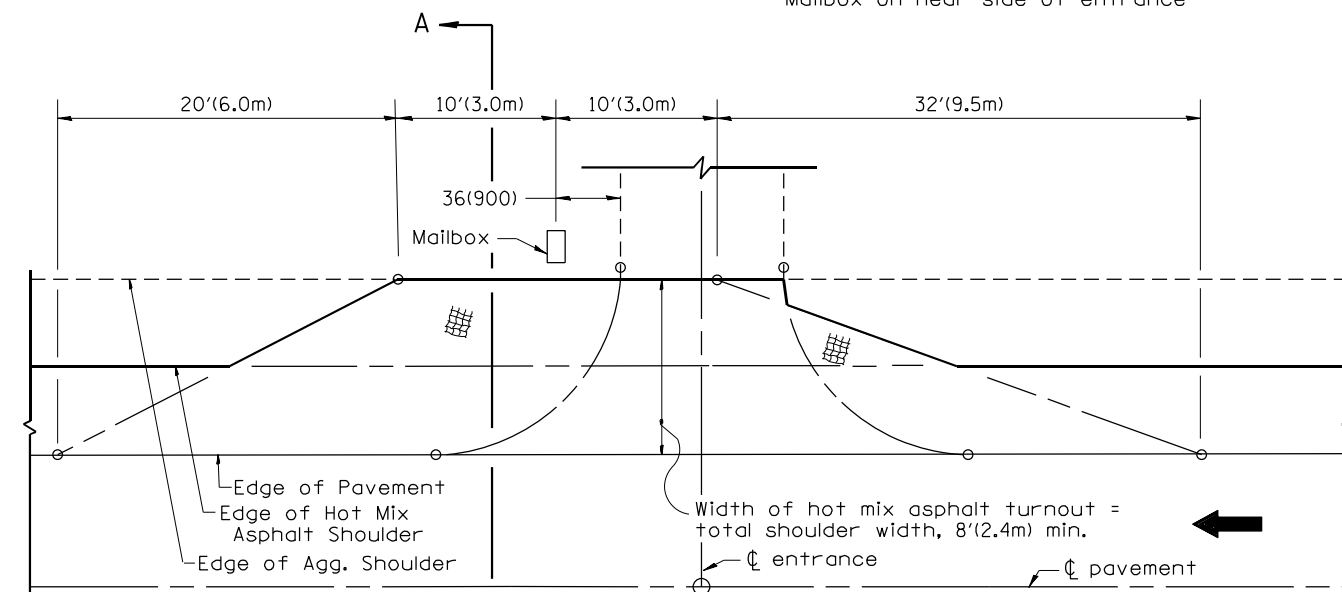
METHOD "T"

Typical Application



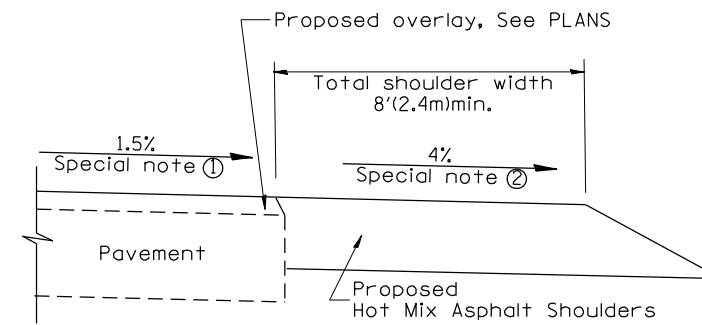
METHOD "N"

Mailbox on near side of entrance

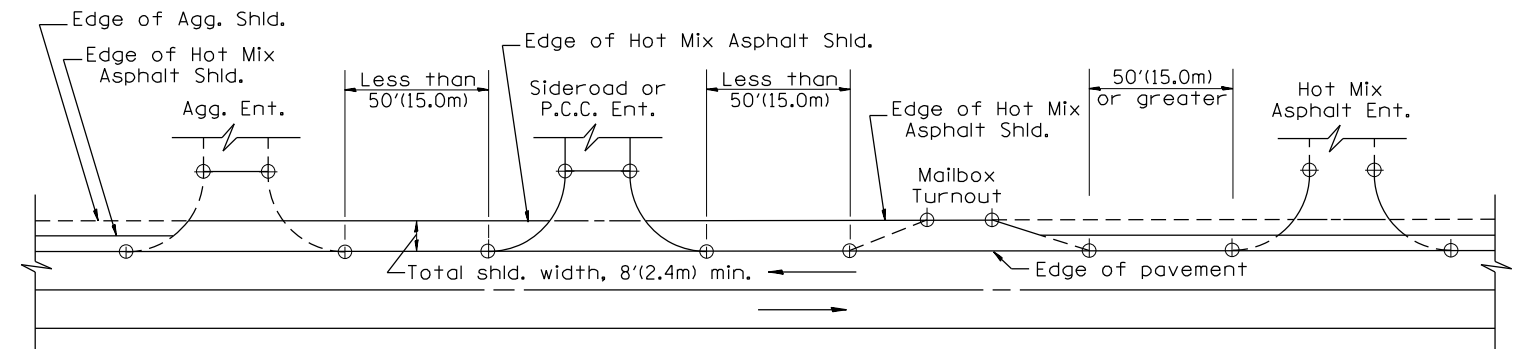


METHOD "F"

Mailbox on far side of entrance



SECTION A-A



DETAIL A

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

GENERAL NOTES

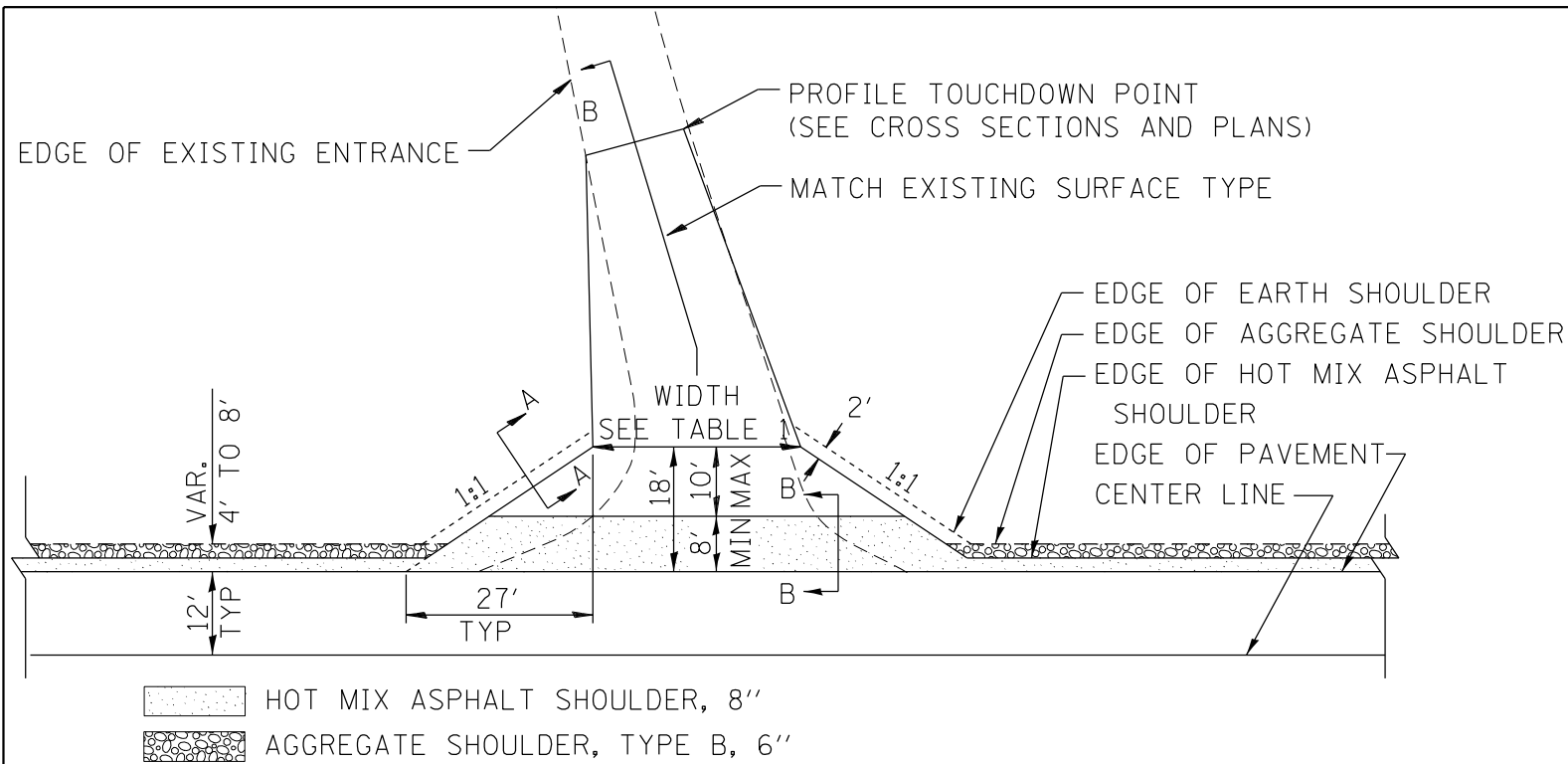
1. Mailbox turnouts shall slope away from the pavement edge at a rate equal to the shoulder slope. See SECTION A-A.
2. The total shoulder width, 8'(2.4m) minimum, shall be paved between sideroads entrances and/or mailbox turnouts at locations where the distance between radius or taper control points is less than 50'(15.0m). See DETAIL A.
3. 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

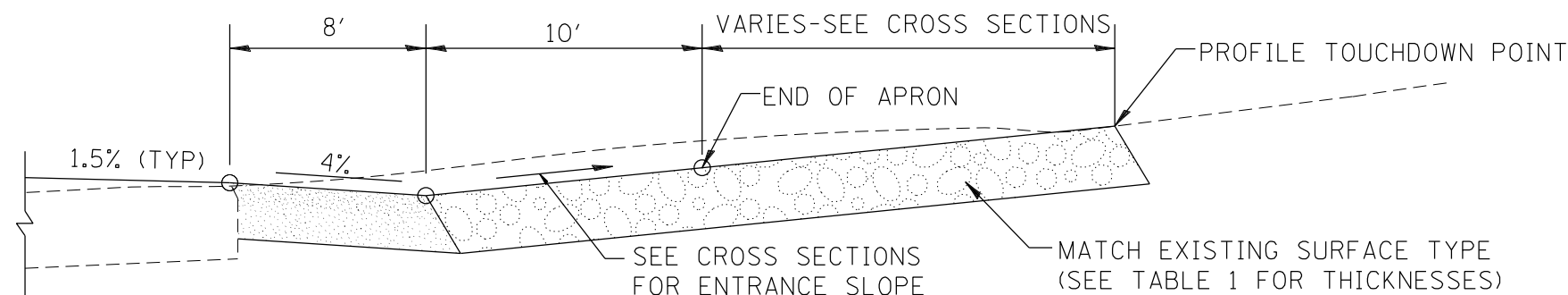
- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- ② The shoulder slope shall control the turnout slope. The standard cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder 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.

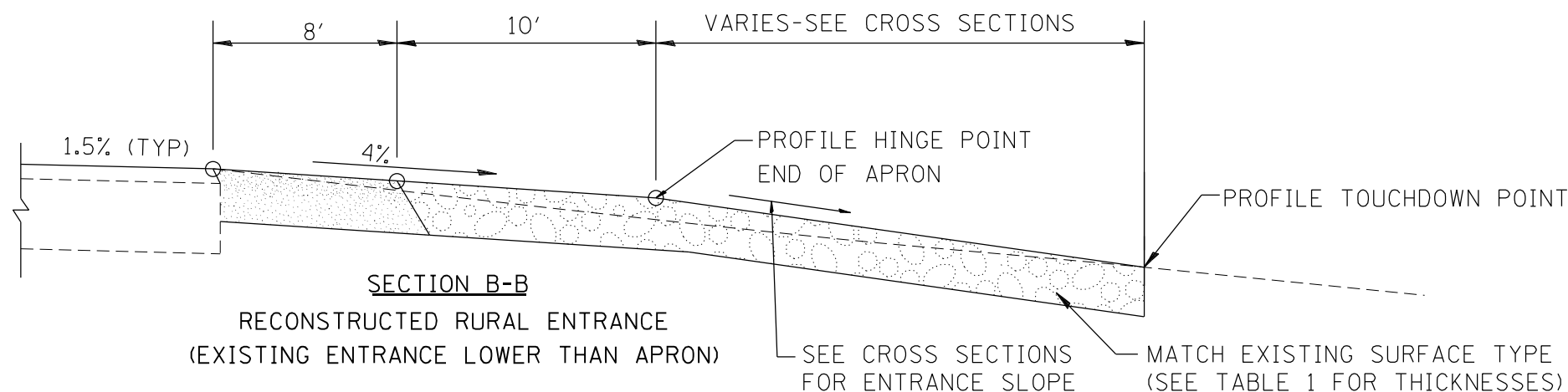
01-01-97	RENUM. C-90.01, NEW REVISION BOX	T.P.				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION MAILBOX TURNOUTS FOR "3R" PROJECTS NOT TO SCALE CADD STD. 406201-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
07-01-97	REVISE DESIGNER NOTES	J.A.					310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	183
09-15-05	REVISED DESIGNER NOTE	M.M.A.					CONTRACT NO. 68B60				
10-16-06	REVISED TO 2007 SPEC.	M.A.					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN
COMMERCIAL / FARM-RELATED ENTRANCE

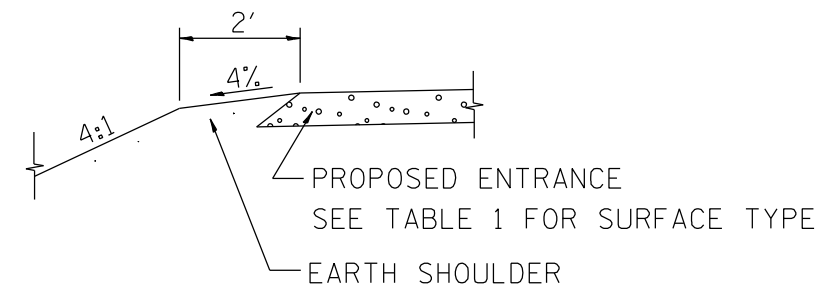


SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



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

TABLE 1								
RURAL ENTRANCE DESIGN								
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
					1-WAY OPERATION		2-WAY OPERATION	
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''			



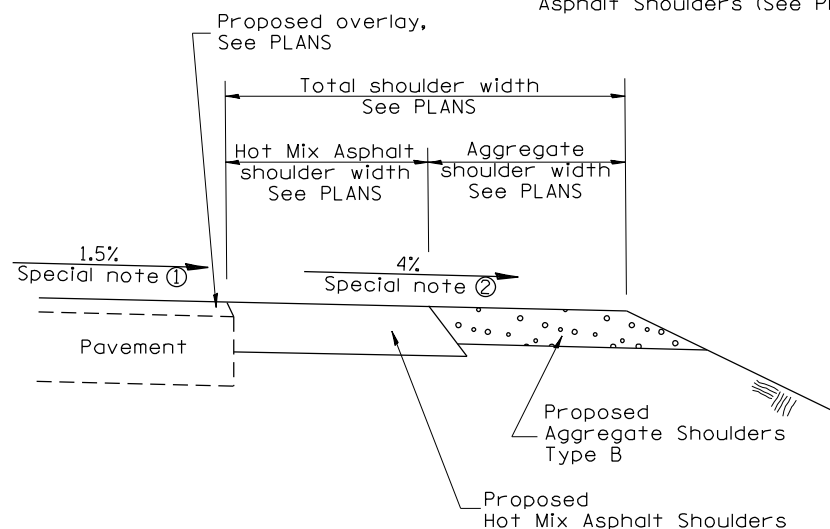
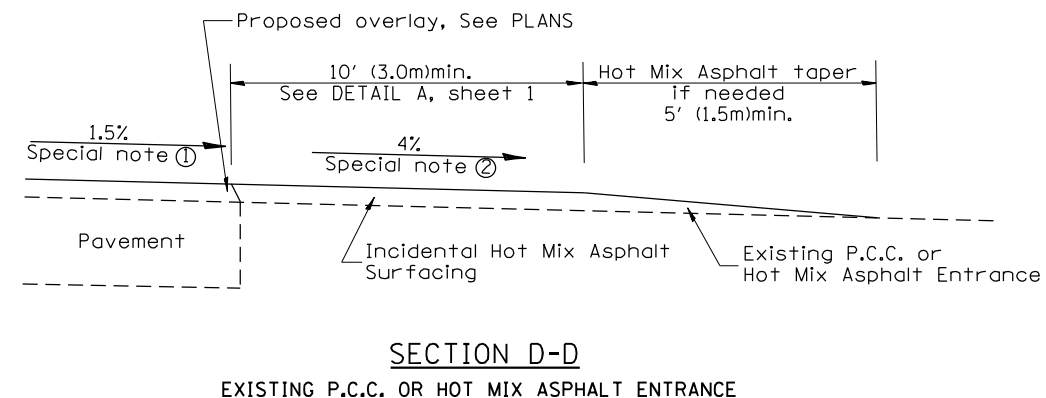
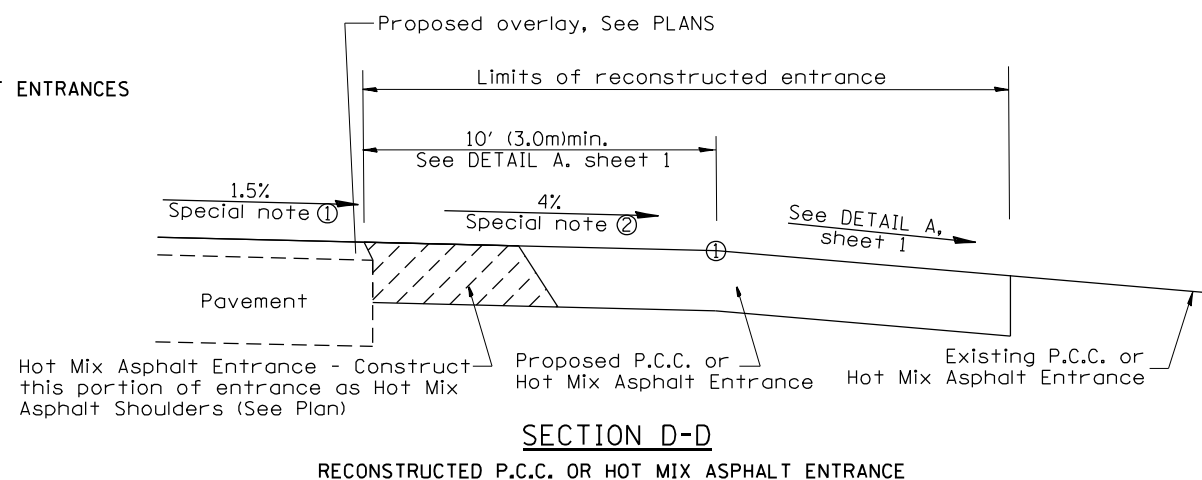
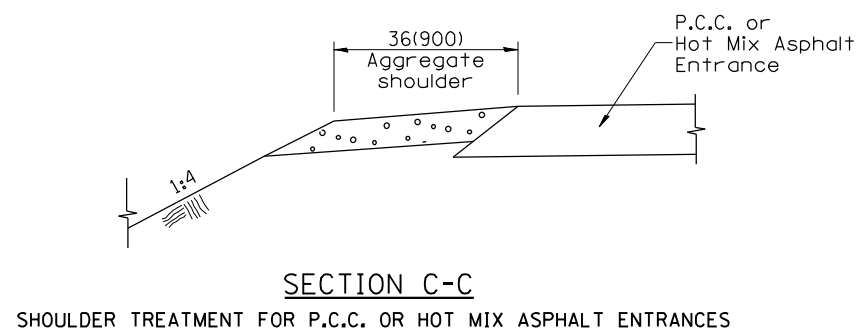
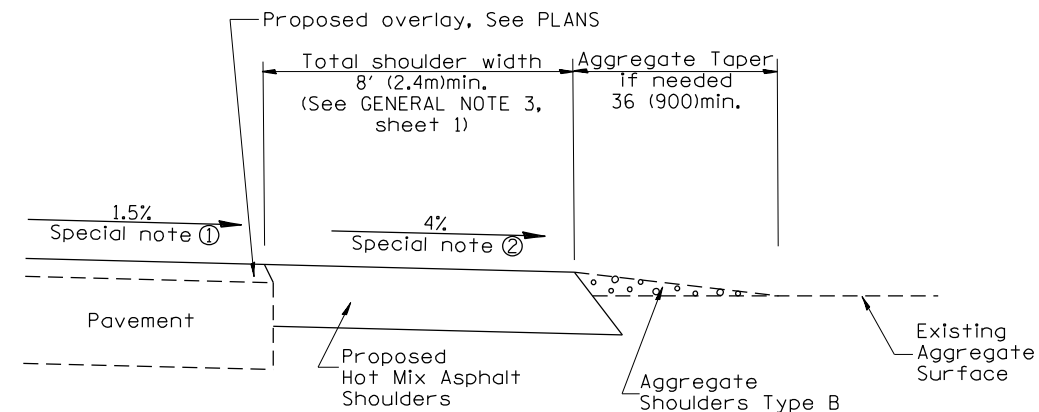
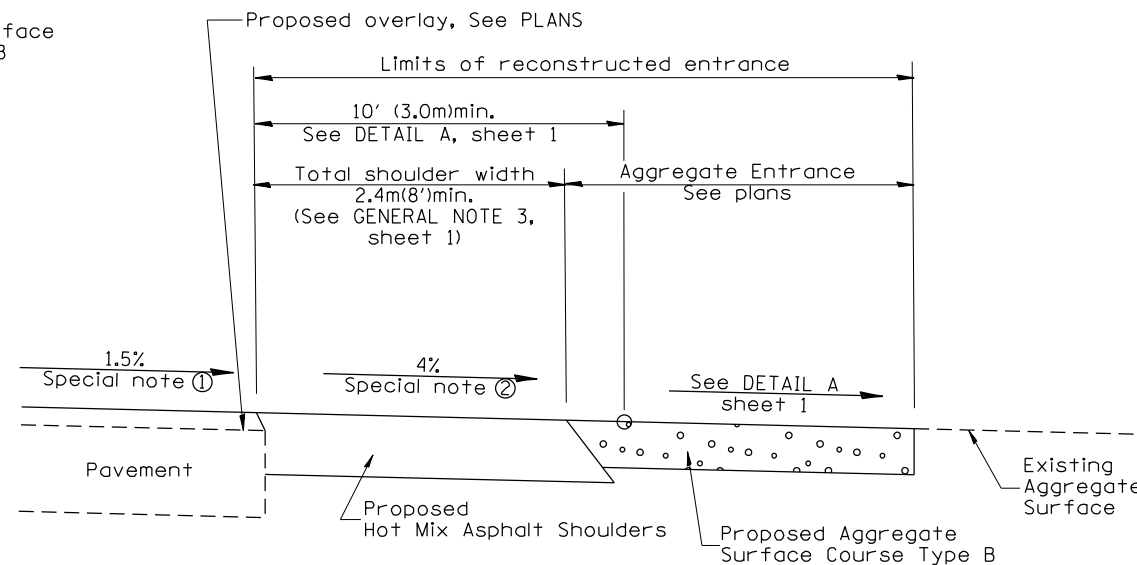
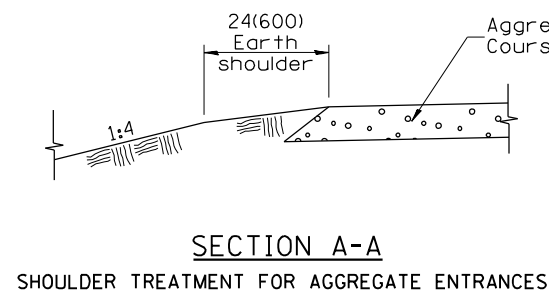
SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

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.

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RURAL ENTRANCES FOR "3R" PROJECTS	SHT. 1 OF 2 CADD STD. 406301-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
07-01-97	REVISE DESIGNER NOTES	J.A.	9-15-15	UPDATED TABLE 1	R.D.				310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	184
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR	2-29-16	MINOR CORRECTIONS	R.D.				CONTRACT NO. 68B60				
09-15-05	RADIUS FOR FLARE	M.M.A.	5-9-17	CHANGED TAPER RATE	R.D.				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



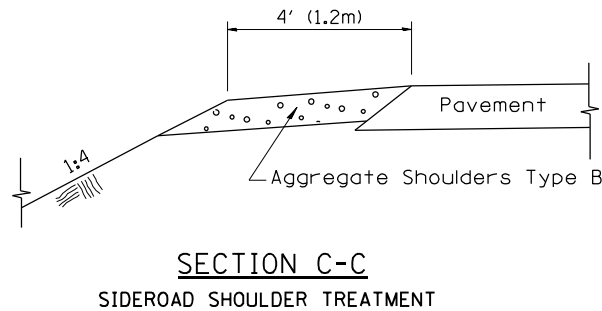
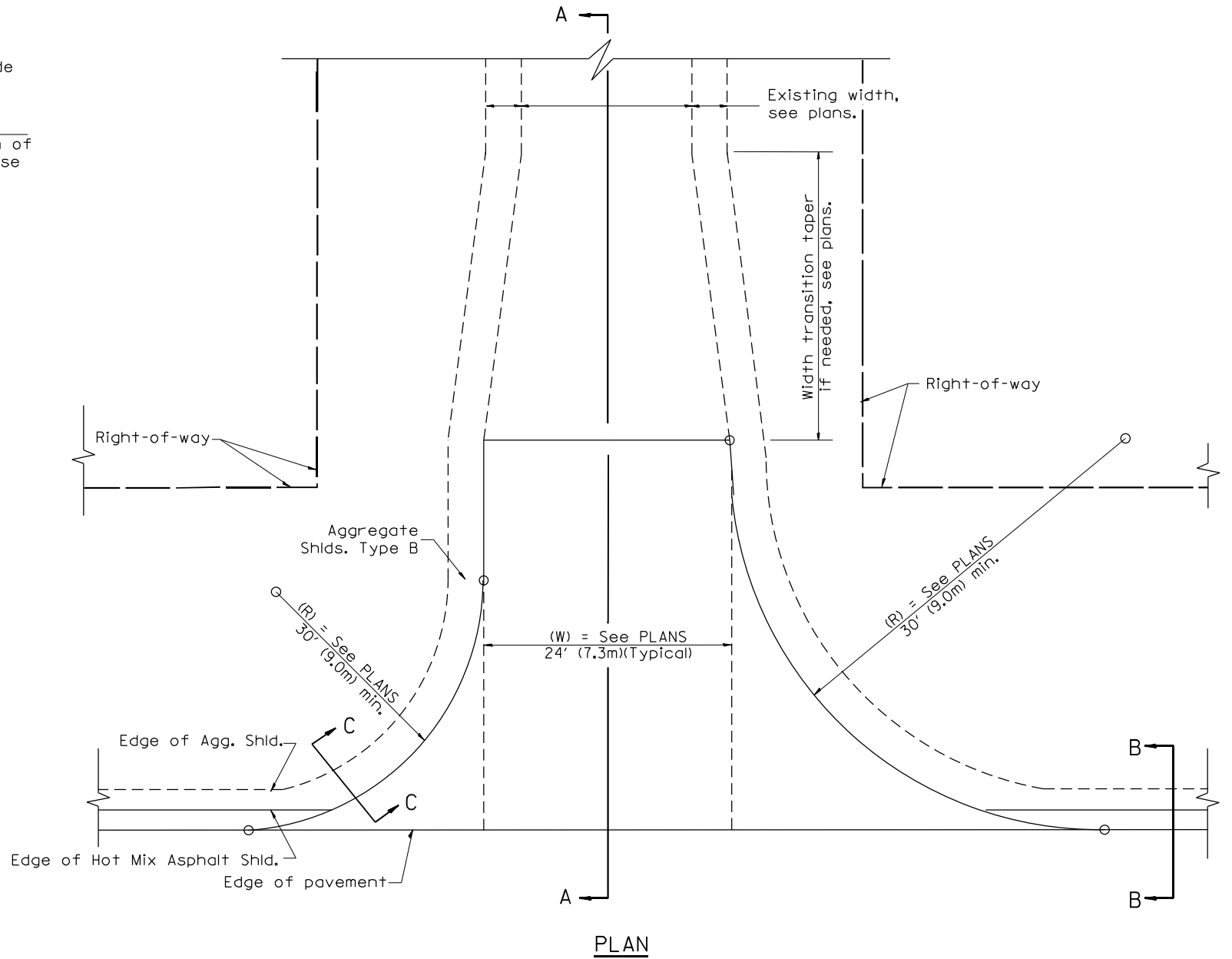
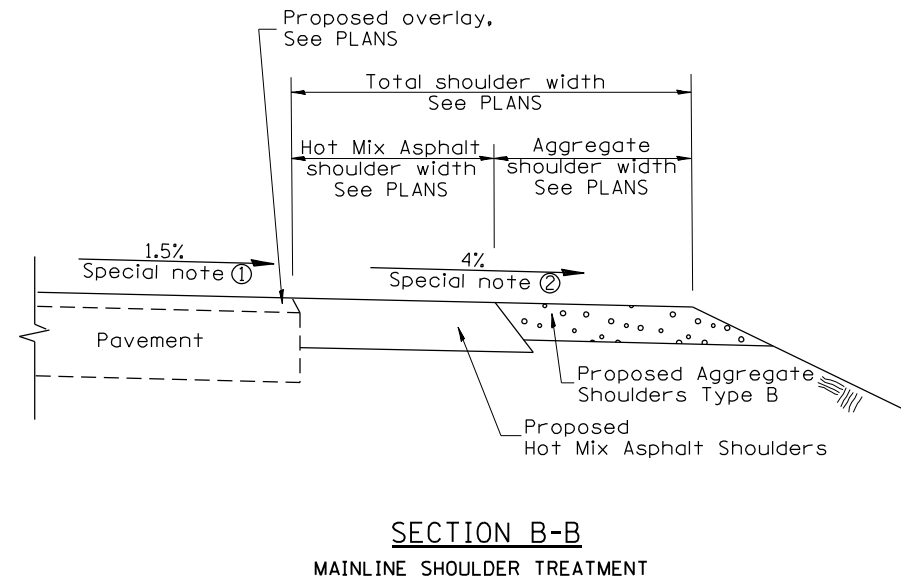
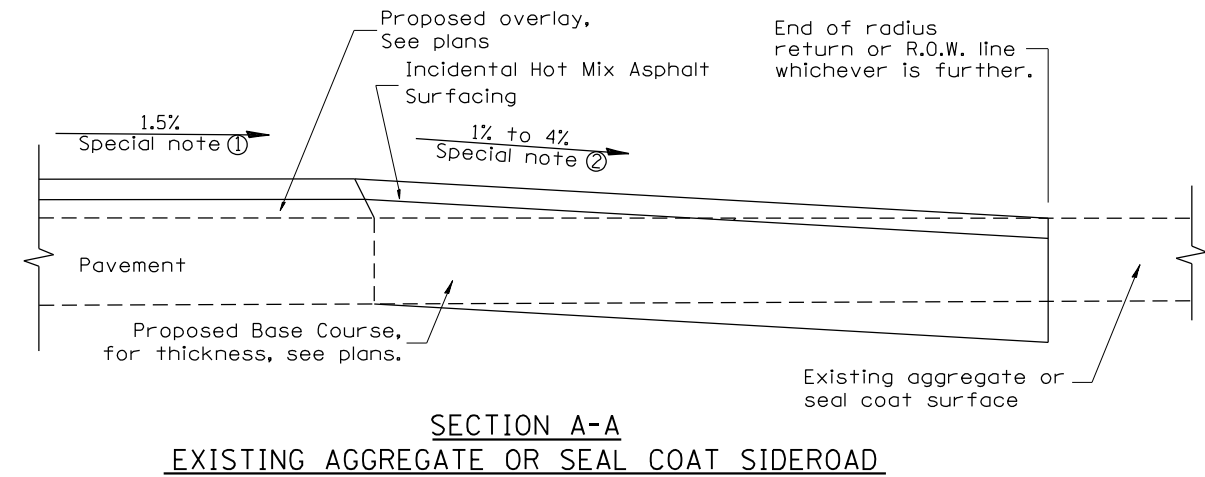
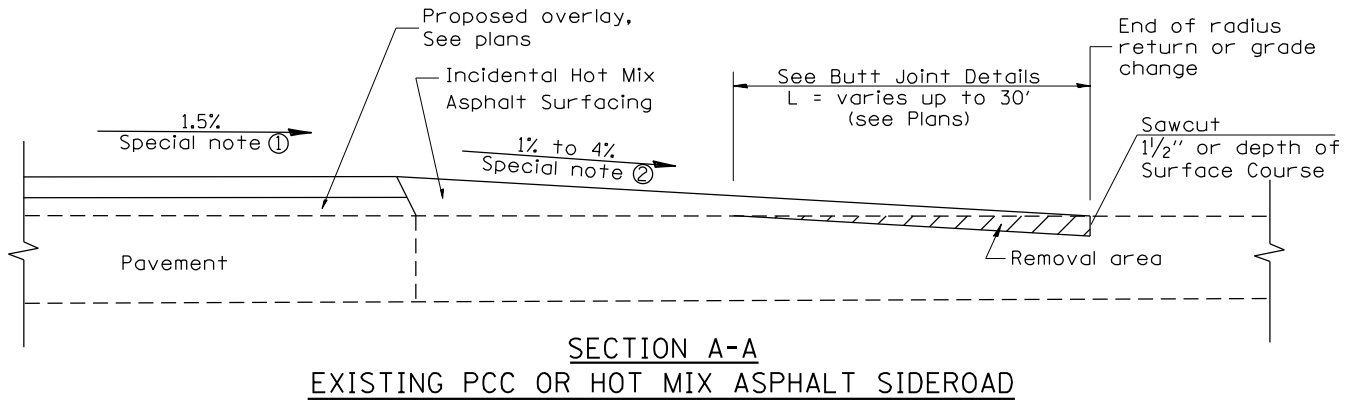
SPECIAL NOTES

- 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 entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder 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' (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				SHT. 2 OF 2 CADD STD. 406301-D4		F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 310 28W-2, 29W-1; 28RS-6, 29RS-4 WARREN 277 185 CONTRACT NO. 68B60	
NOT TO SCALE				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.

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

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

NOT TO SCALE

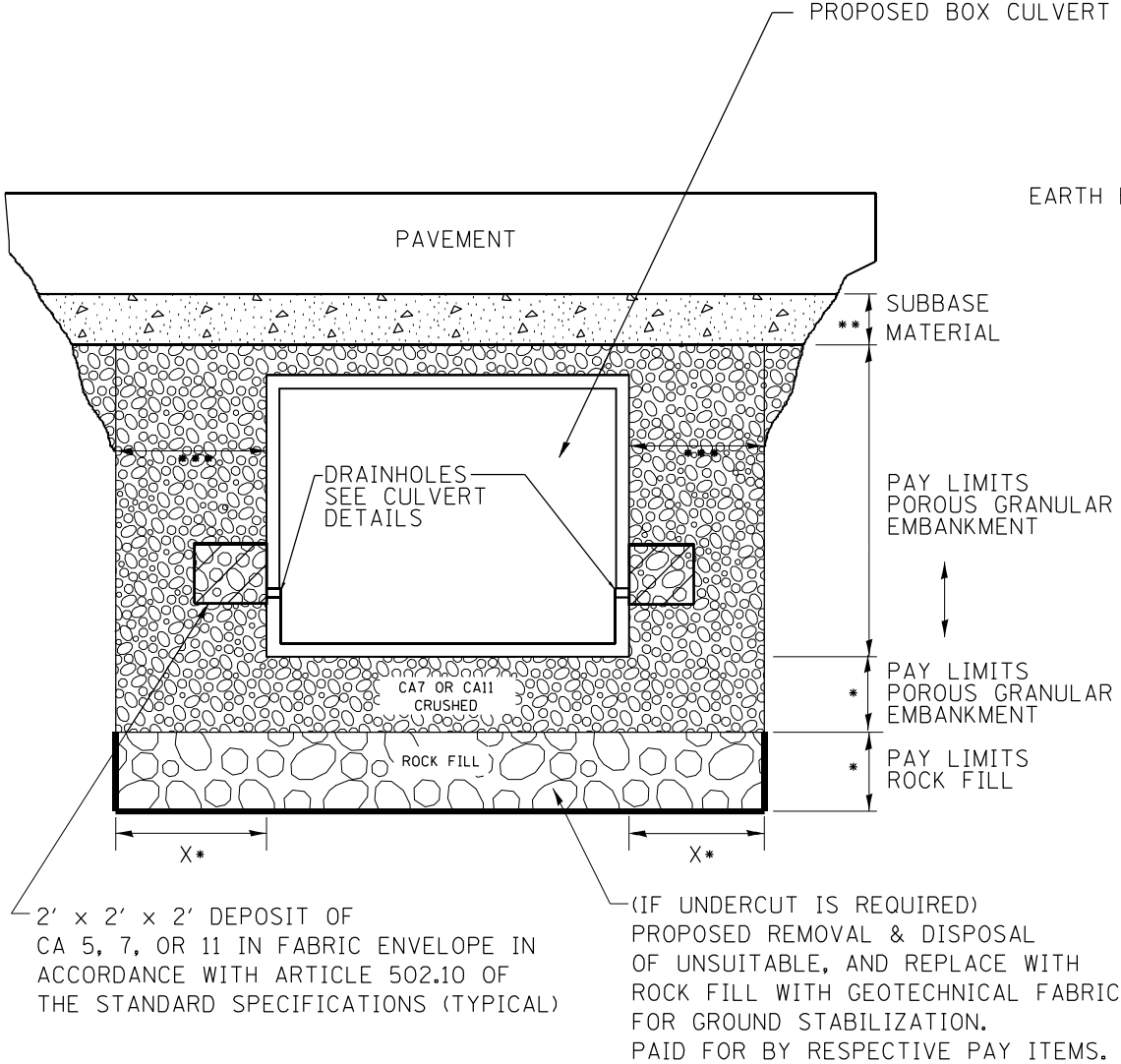
RURAL SIDEROADS FOR "3R" PROJECTS

CADD STD. 406401-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	186
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

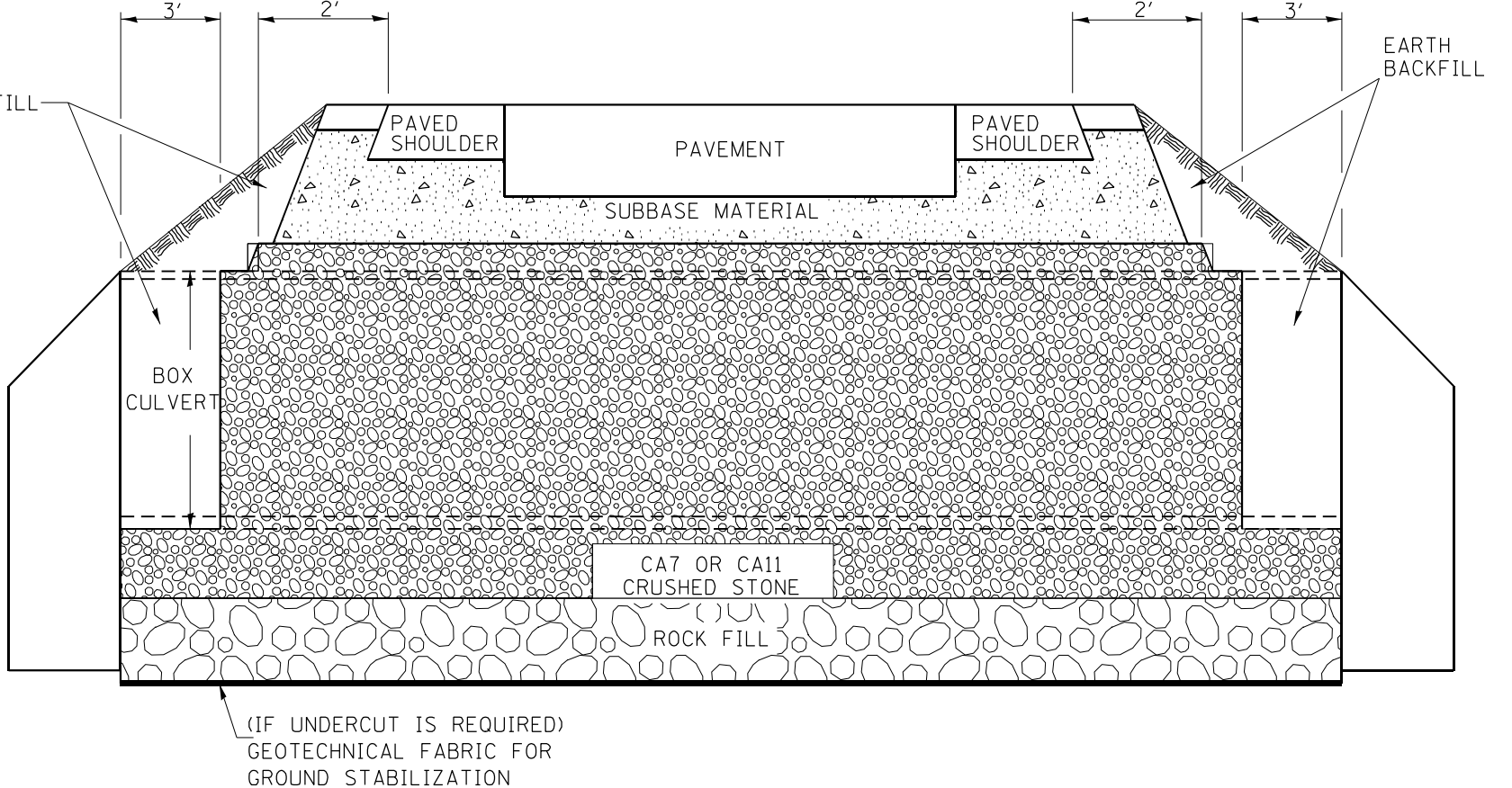
1. IF DESIGN FILL IS < 2 FEET, CONTINUE PGE UP TO THE SUBBASE.

ROADWAY PROFILE VIEW



- * 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.

ROADWAY CROSS SECTION VIEW



NOTES:

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

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

[illegible]

EXIST. CULV.

10" (250)

8" (200)

U BAR

T

15(375) SPLICE

EXPANSION

BOLTS

PROP. EXTENSION

A

A

W

B

H

SECTION A - A

END VIEW

X

#4 U BAR
FOUR REQUIRED
PER COLLAR

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.

EXISTING BOX		A	B	T	EACH COLLAR				
W ft (mm)	H ft (mm)				CL	SI cu yd (m ³)	REINFORCEMENT BARS		EXPANSION BOLTS
							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)	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

CALC. BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

01-01-97	RENUM. J-12.01, METRICS, NEW REVISION BOX, REVISED	T.P.
	TITLE BOX, ADDED QUANTITY CALCULATION BOX	
10-16-06	REV. TO 2007 SPEC., REINF. BARS COL.	M.A.
2-15-11	ADDED GENERAL NOTE #3 & REVISED BAR LAP LENGTH	R.D.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28R5-6, 29R5-4	WARREN	277	188
		CONTRACT NO. 68B60		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CADD STD. 540001-D4

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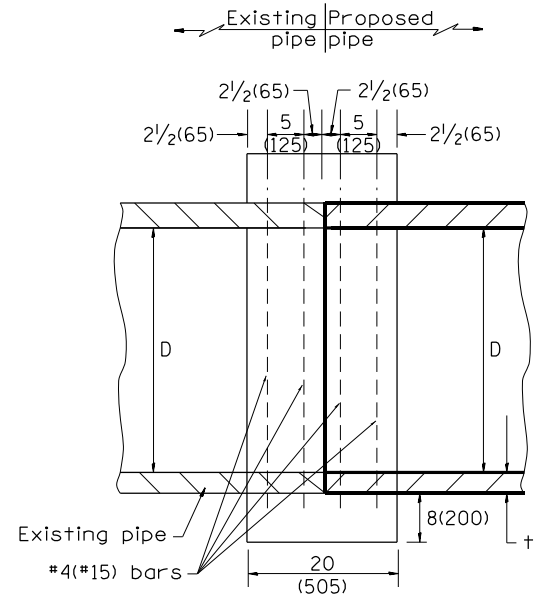
1. The collar shall be constructed entirely of class SI concrete and in accordance with the applicable portions of section 503 of the Standard Specifications. Reinforcement bars shall conform to section 508.
2. Expansion bolts shall consist of approved expansion anchors, and $\frac{3}{4}$ " (M20) hook 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			
					CL SI		REINFORCEMENT BARS	
					CU YD (m ³)	X	Y	POUNDS (kg)
W ft (mm)	H ft (mm)							
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)

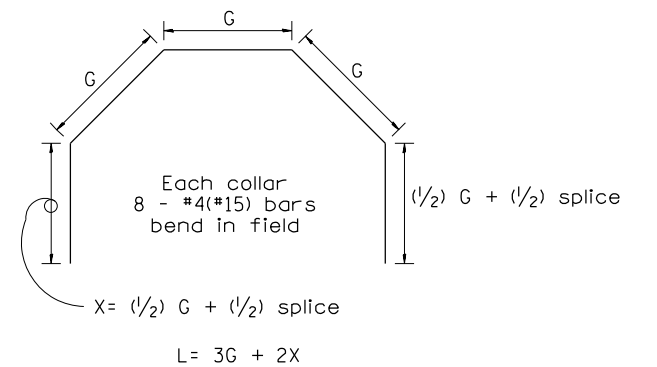
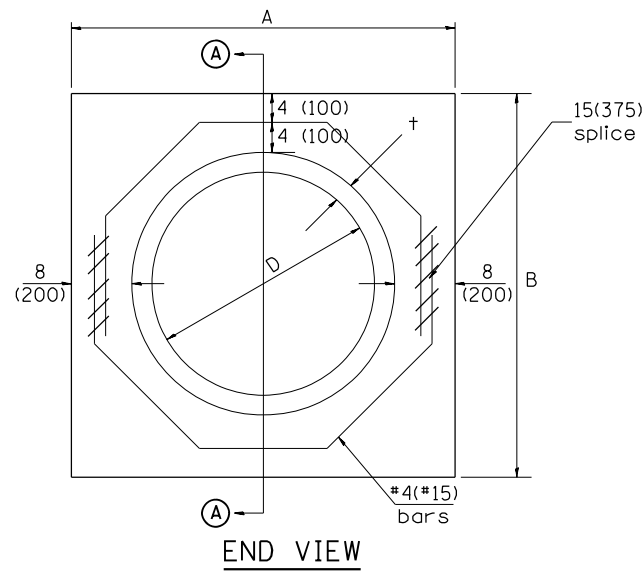
CALC. BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

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

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SECTION A - A



LOCATIONS

1. STA. 997+43.44
2. STA. 1030+19.76, LT
3. STA. 1106+57.19
4. STA. 1106+62.98
5. STA. 1113+92.74
6. STA. 1159+82.03, LT
7. STA. 1165+52.41
8. STA. 1193+03.20
9. STA. 1205+35.46
10. STA. 1210+56.00
11. STA. 1228+32.61

				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 ³)	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 ¹⁵ / ₁₆ (253)	12 ⁷ / ₁₆ (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 ³ / ₈ (290)	13 ³ / ₁₆ (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 ¹³ / ₁₆ (327)	13 ⁷ / ₈ (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 ¹ / ₄ (364)	14 ⁵ / ₈ (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 ¹¹ / ₁₆ (401)	15 ⁵ / ₁₆ (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 ¹ / ₄ (438)	16 ¹ / ₁₆ (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 ¹¹ / ₁₆ (475)	16 ³ / ₄ (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 ¹ / ₈ (512)	17 ¹ / ₂ (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 ⁹ / ₁₆ (549)	18 ³ / ₁₆ (465)	8.44 (2.574)	45 (20)	
42 (1050)	4.50 (114)	5.58 (1.701)	5.58 (1.701)	1.0 (.800)	24 ⁷ / ₁₆ (622)	19 ³ / ₄ (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 ⁵ / ₁₆ (696)	21 ³ / ₁₆ (538)	10.38 (3.164)	55 (25)	

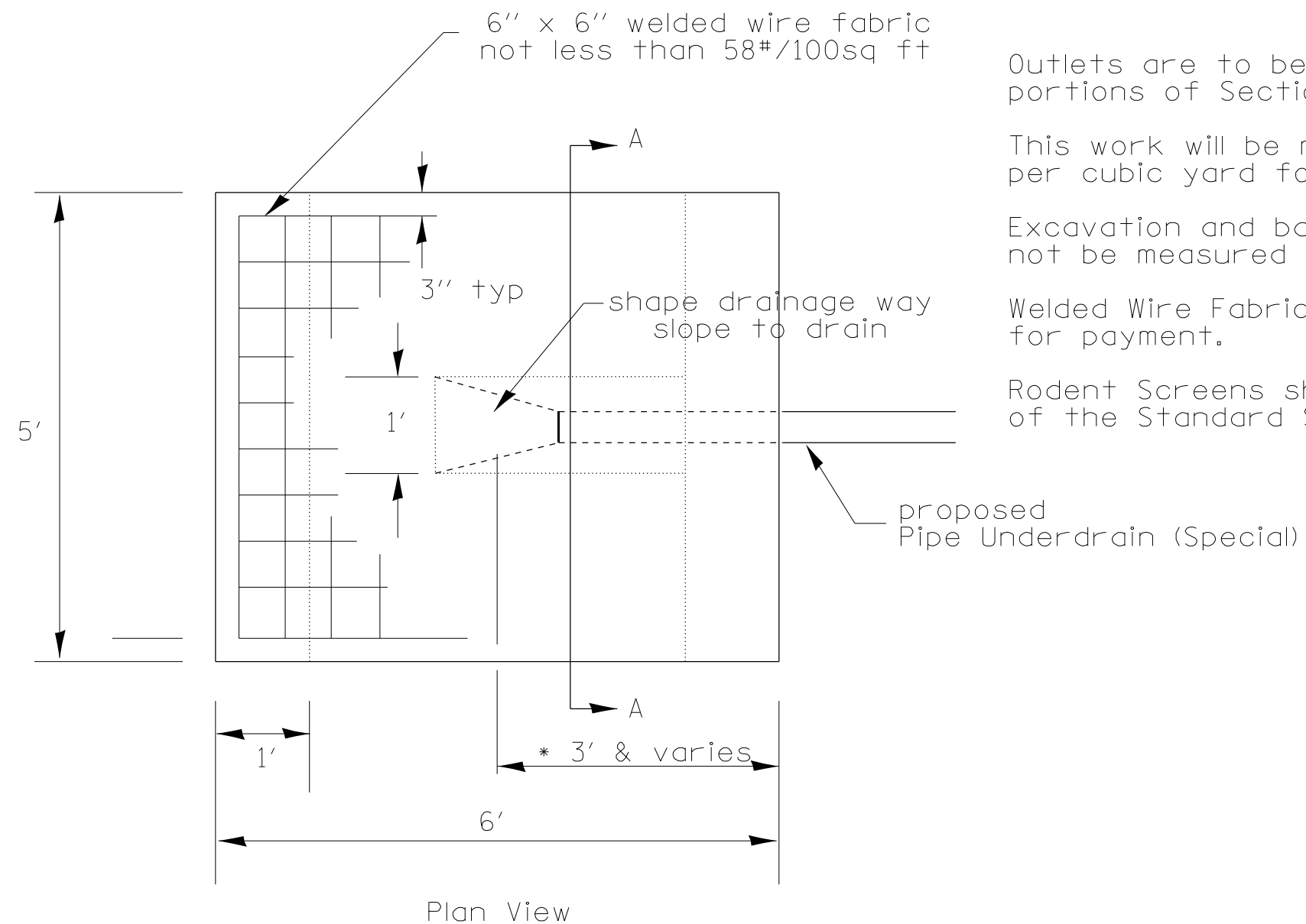
GENERAL NOTES

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.

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

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			

01-01-97	RENUM. B-8.03, NEW REVISION BOX, REVISED	T.P.	09-01-00	CORRECT WEIGHT	J.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIPE CULVERT EXTENSION COLLAR (WITHOUT END SECTION)	NOT TO SCALE	CADD STD. 542016-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TITLE BOX, ADDED QUANTITY CALCULATION BOX		10-16-06	REV. TO 2007 SPEC., CORRECT mm UNITS	M.A.					310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	191
04-01-97	CORRECT BAR	J.A.	2-15-11	ADDED GENERAL NOTE #2	R.D.					CONTRACT NO. 68B60				
02-10-98	REVISE QUANTITIES	J.A.								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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

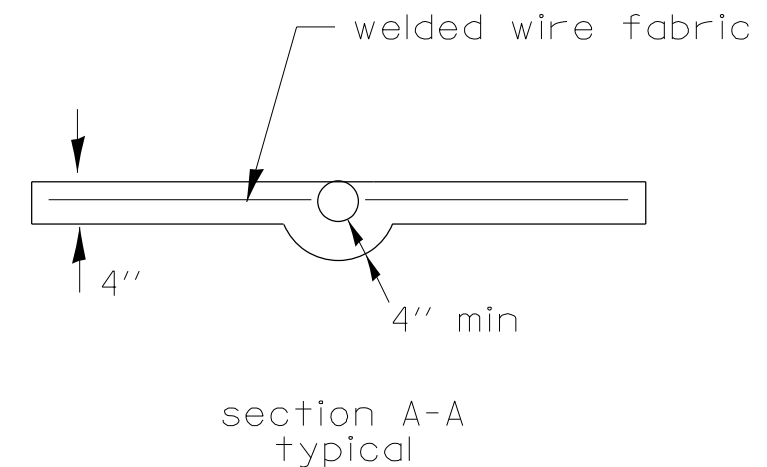
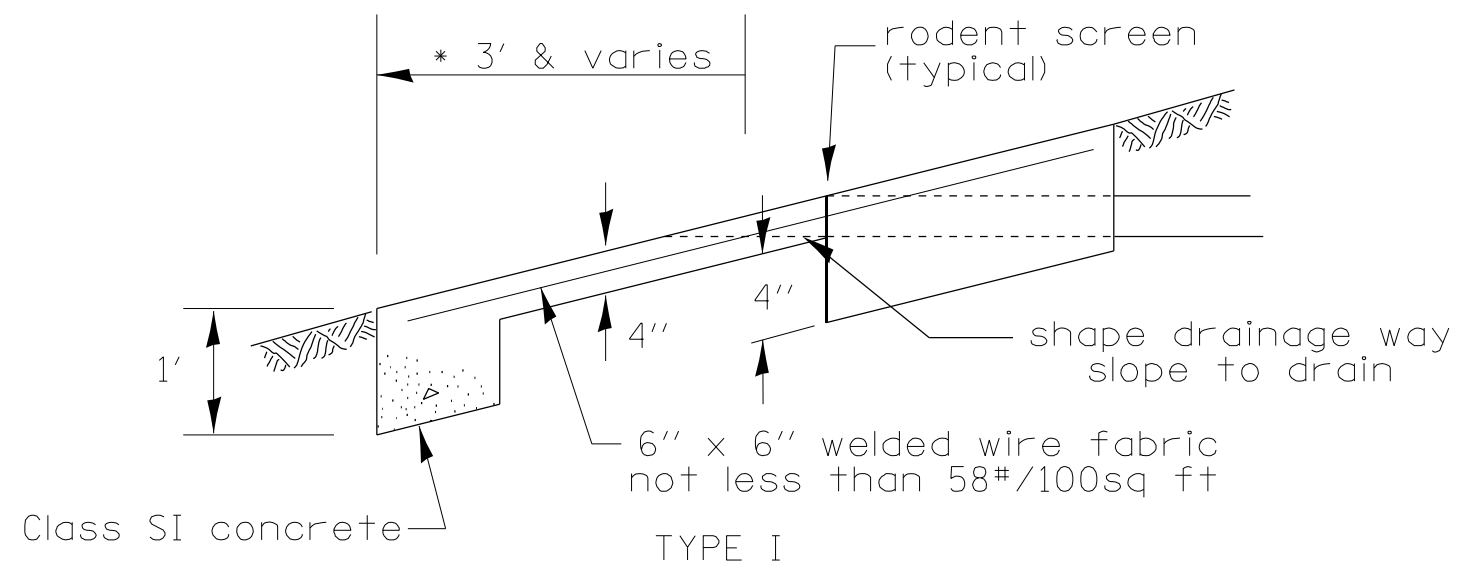
This work will be measured for payment at the contract unit price per cubic yard for CLASS SI CONCRETE FOR PIPE UNDERDRAIN OUTLET

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

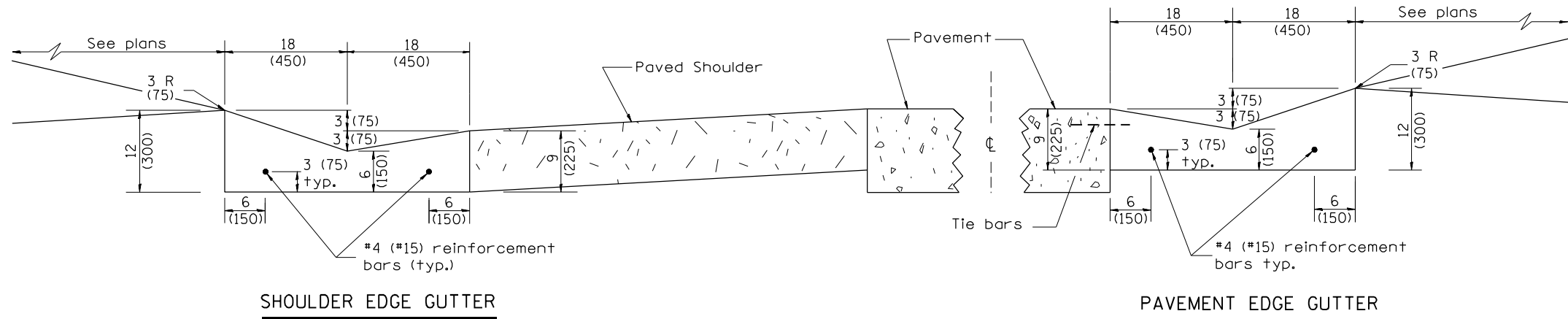
Welded Wire Fabric required for this work will not be measured for payment.

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



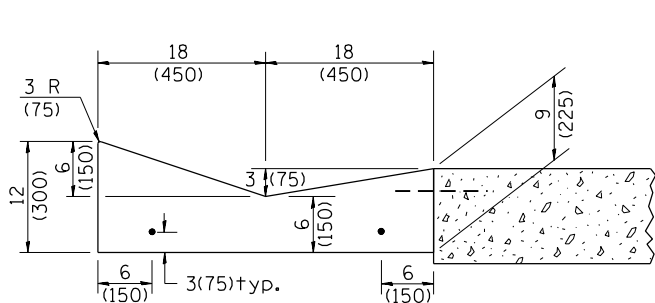
DESIGNER NOTES:
1. INCLUDE STATE STANDARD 420001.
2. PAY ITEM FOR INLETS, OUTLETS, AND ENTRANCES IS X6060097 CLASS SI CONCRETE (OUTLET), SPECIAL



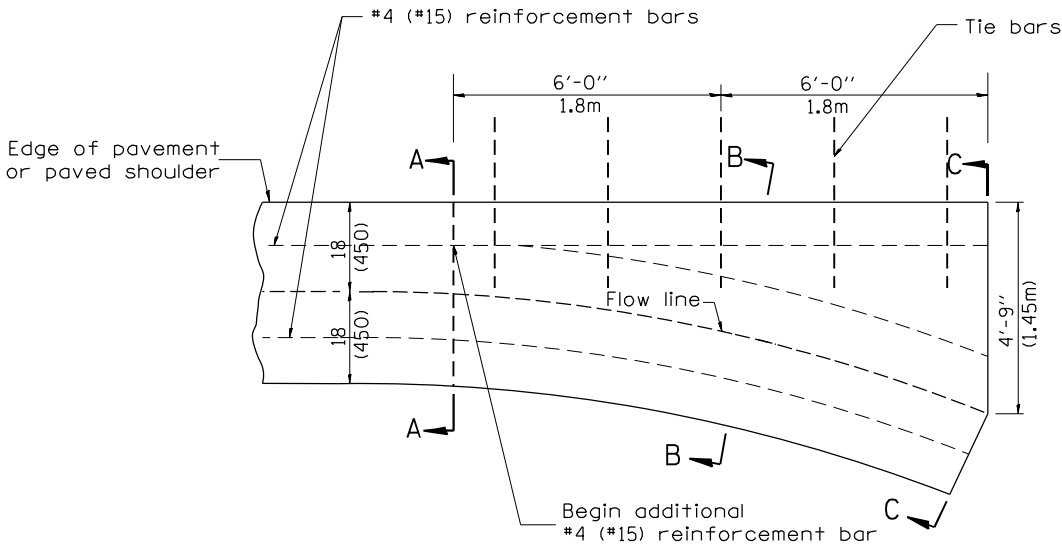
SHOULDER EDGE GUTTER

PAVEMENT EDGE GUTTER

CONCRETE GUTTER, TYPE A, (SPECIAL)



SECTION A-A

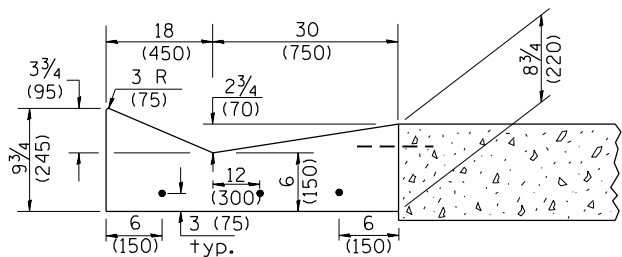


PLAN

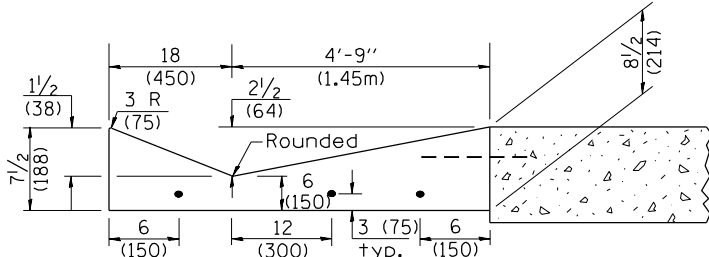
QUANTITY
Section C-C to A-A= 1.2 cu. yd.
(0.92 m³) concrete.

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/m²).



SECTION B-B



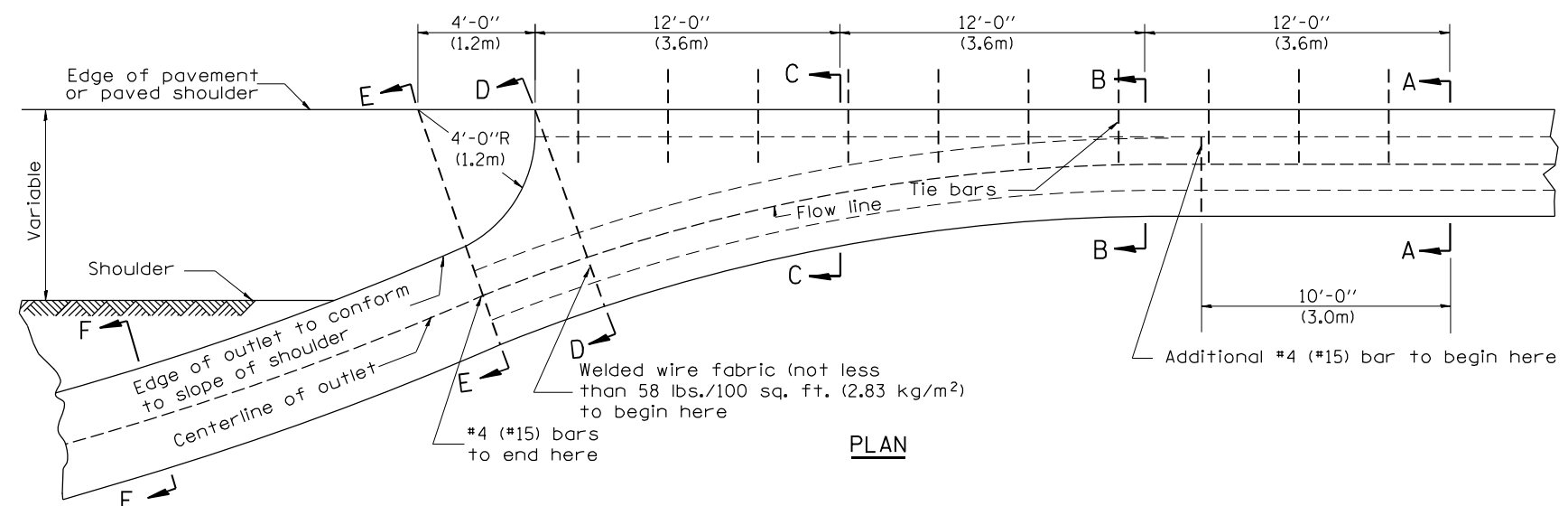
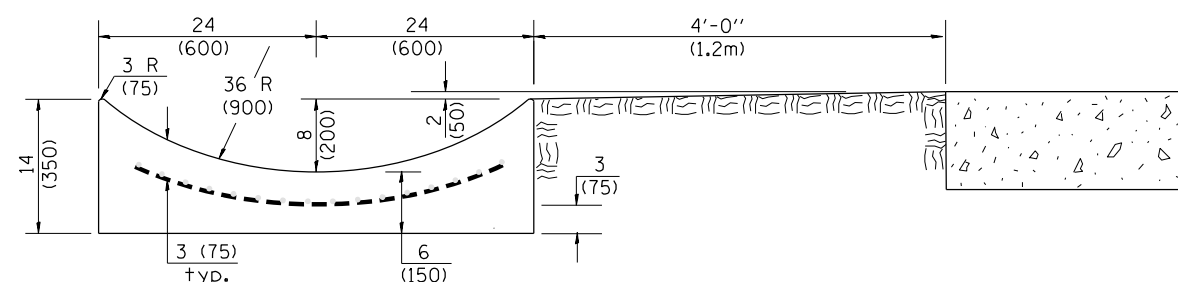
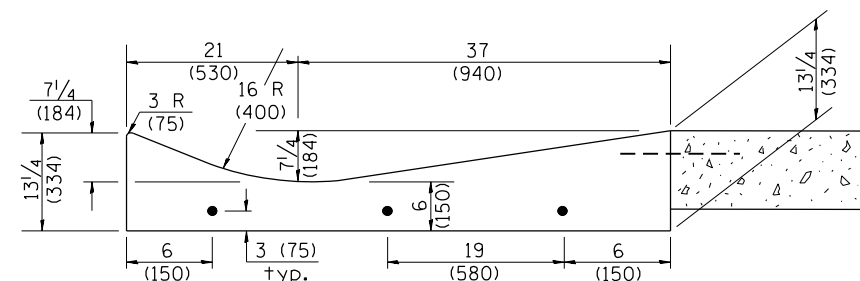
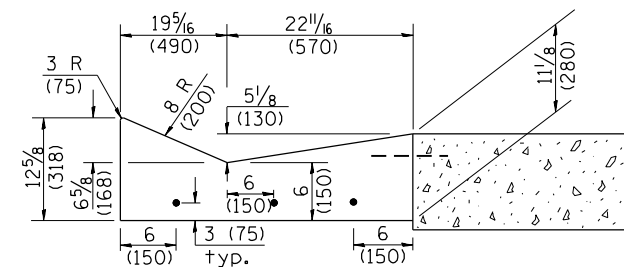
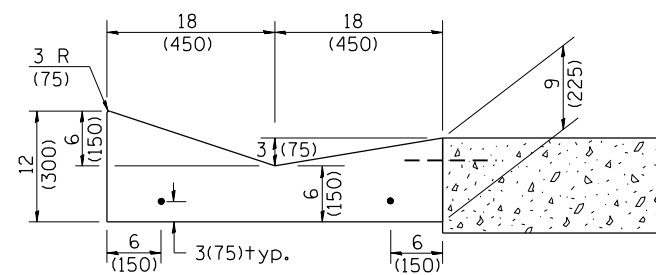
SECTION C-C

INLET

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

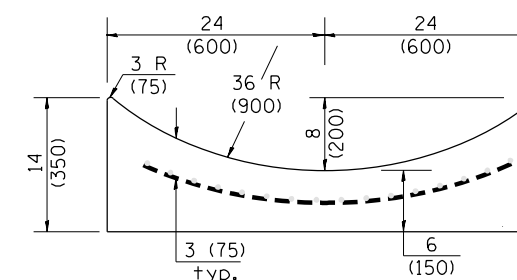
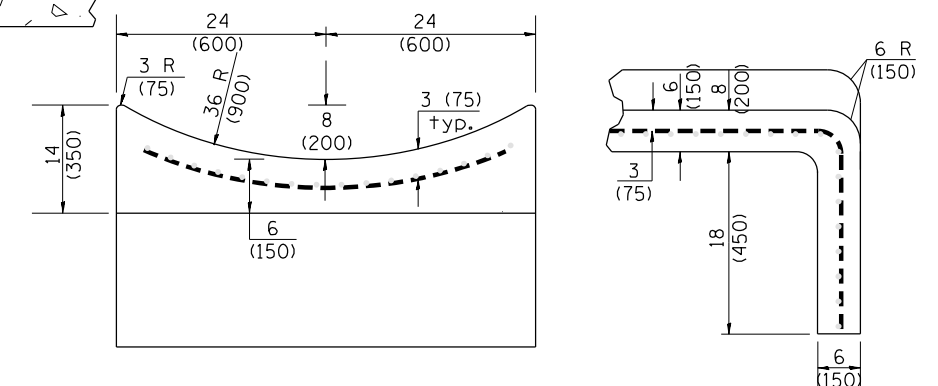
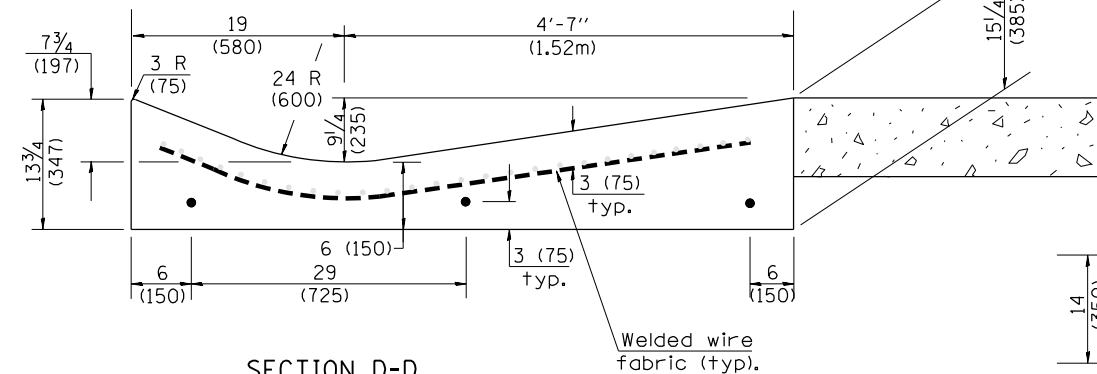
01-01-97	RENUM. A-1.02, NEW REVISION BOX, ELIMINATED	T.P.	01-10-07	REVISED QUANTITY	M.A.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONCRETE GUTTER, TYPE A, (SPECIAL) (INLET, OUTLET & ENTRANCE)	SHT. 1 OF 3 CADD STD. 606101-D4	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
	EXPANSION ANCHOR TIES		11-16-07	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.				
						NOT TO SCALE			

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



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



QUANTITY

Curtain Wall = 0.1 cu. yd.
(0.08 m³) concrete.

QUANTITIES

CALC. BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

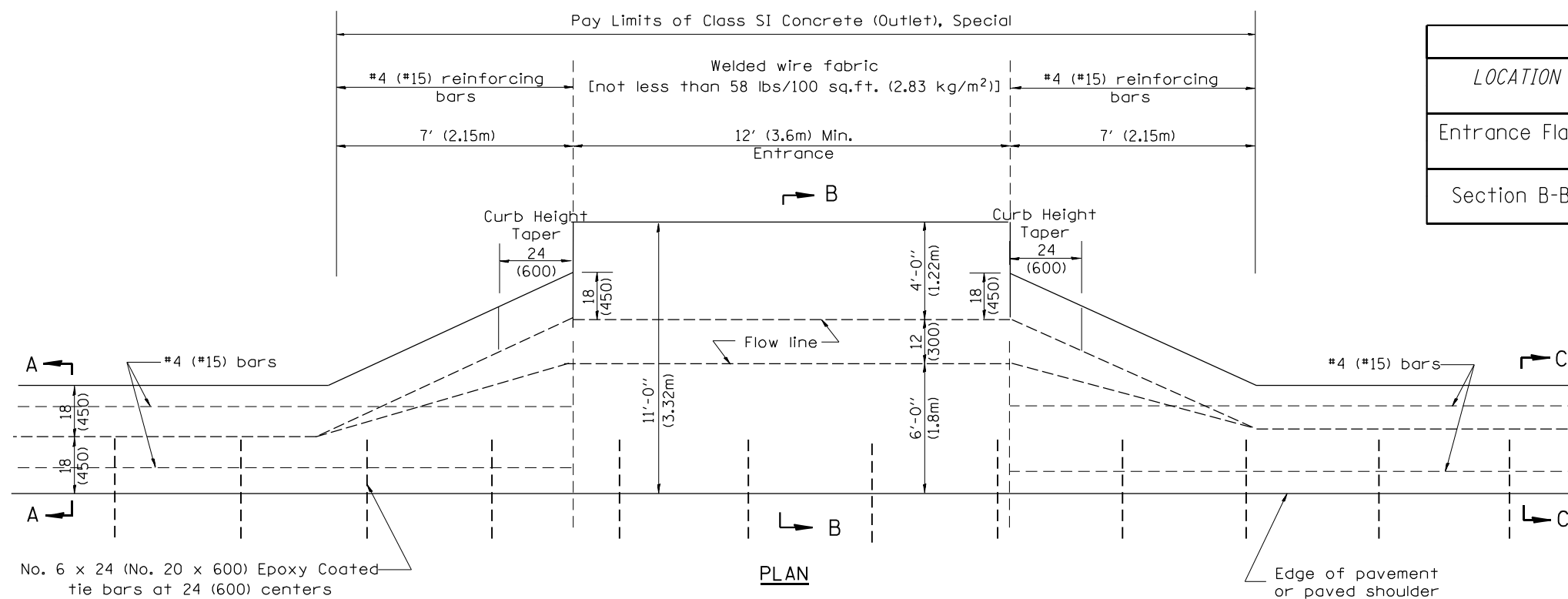
**CONCRETE GUTTER, TYPE A, (SPECIAL)
(INLET, OUTLET & ENTRANCE)**

NOT TO SCALE

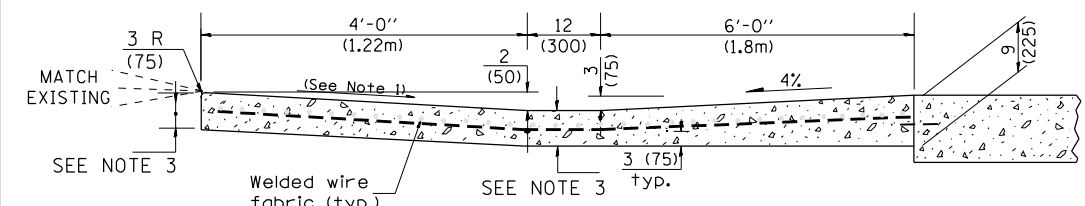
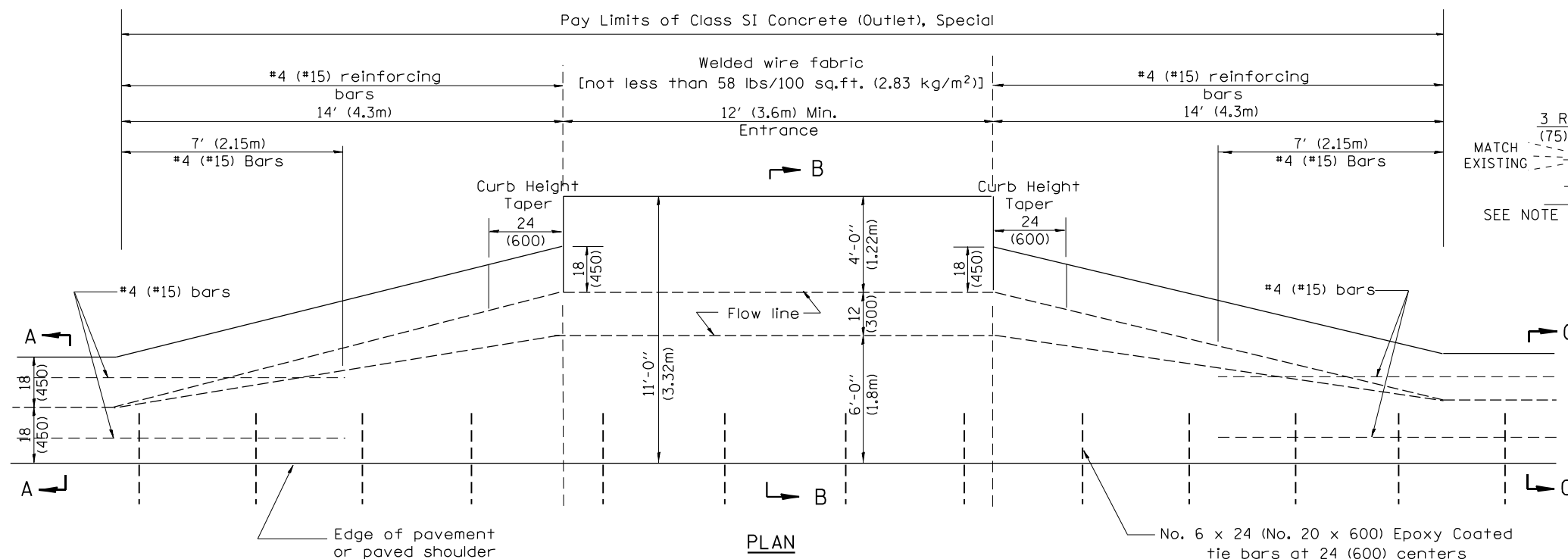
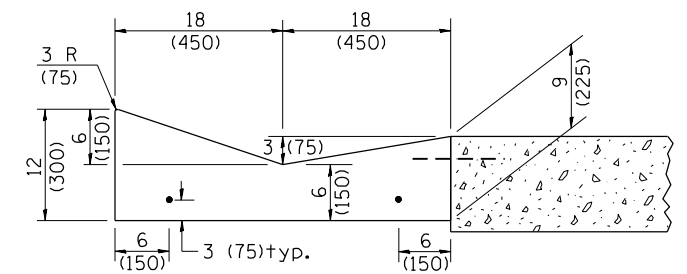
SHT. 2 OF 3
CADD STD. 606101-D4

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	194
CONTRACT NO. 68B60				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID	PROJECT	



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 B-B

GENERAL NOTES

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

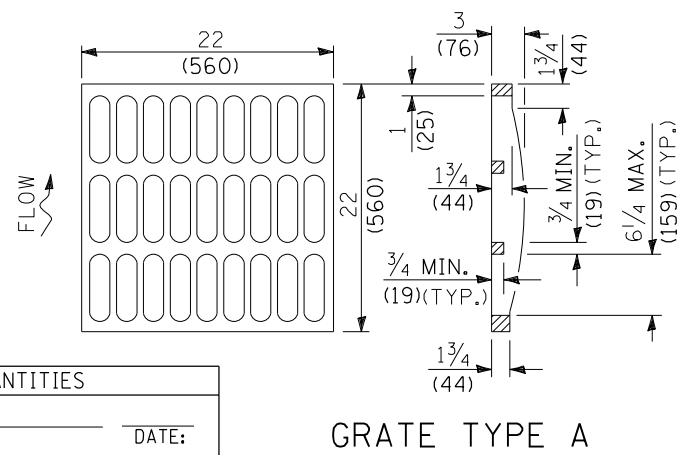
All dimensions are in inches (millimeters) unless otherwise noted.

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

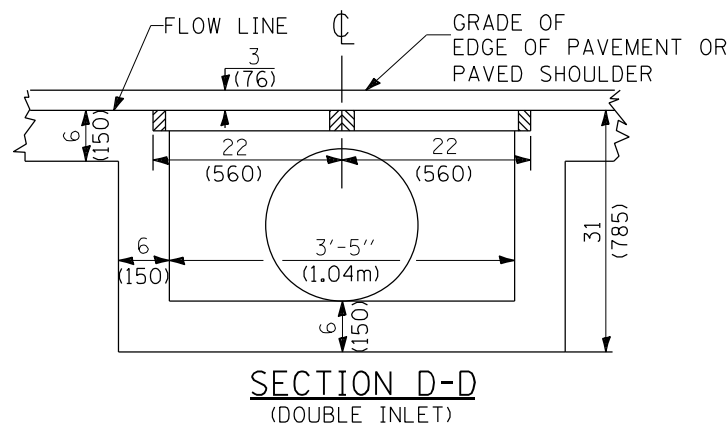
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DESIGNER NOTES:
1. INCLUDE STATE STANDARD 420001.
2. PAY ITEM IS CLASS 51 CONCRETE (OUTLET), SPECIAL.

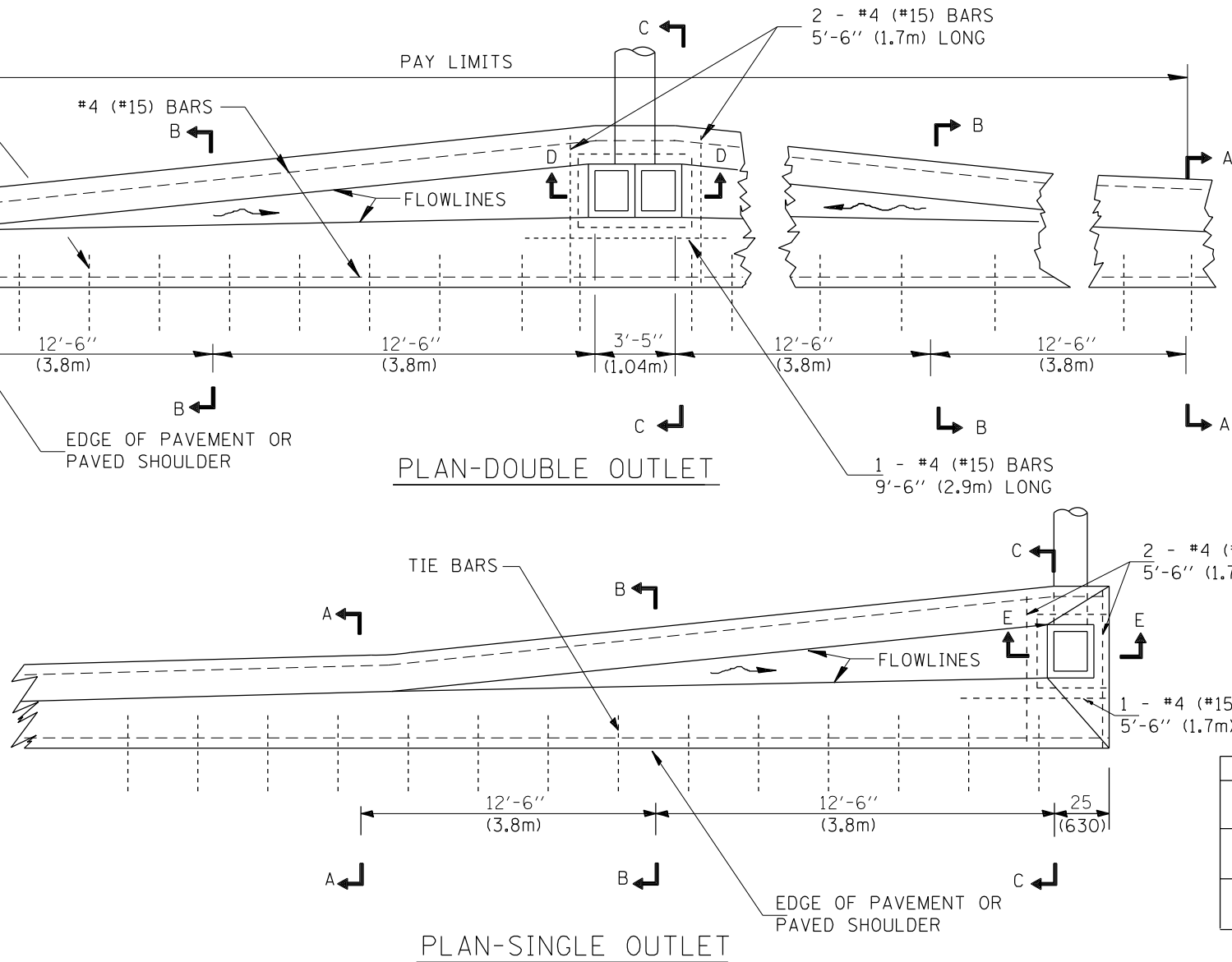
QUANTITIES			
CALC. BY:		DATE:	
CHECKED BY:		DATE:	
QUANTITY CALCULATIONS ARE ON FILE AT THE DISTRICT 4 OFFICE; BUREAU OF PROJECT IMPLEMENTATION; DOCUMENTATION SECTION			



GRATE TYPE A

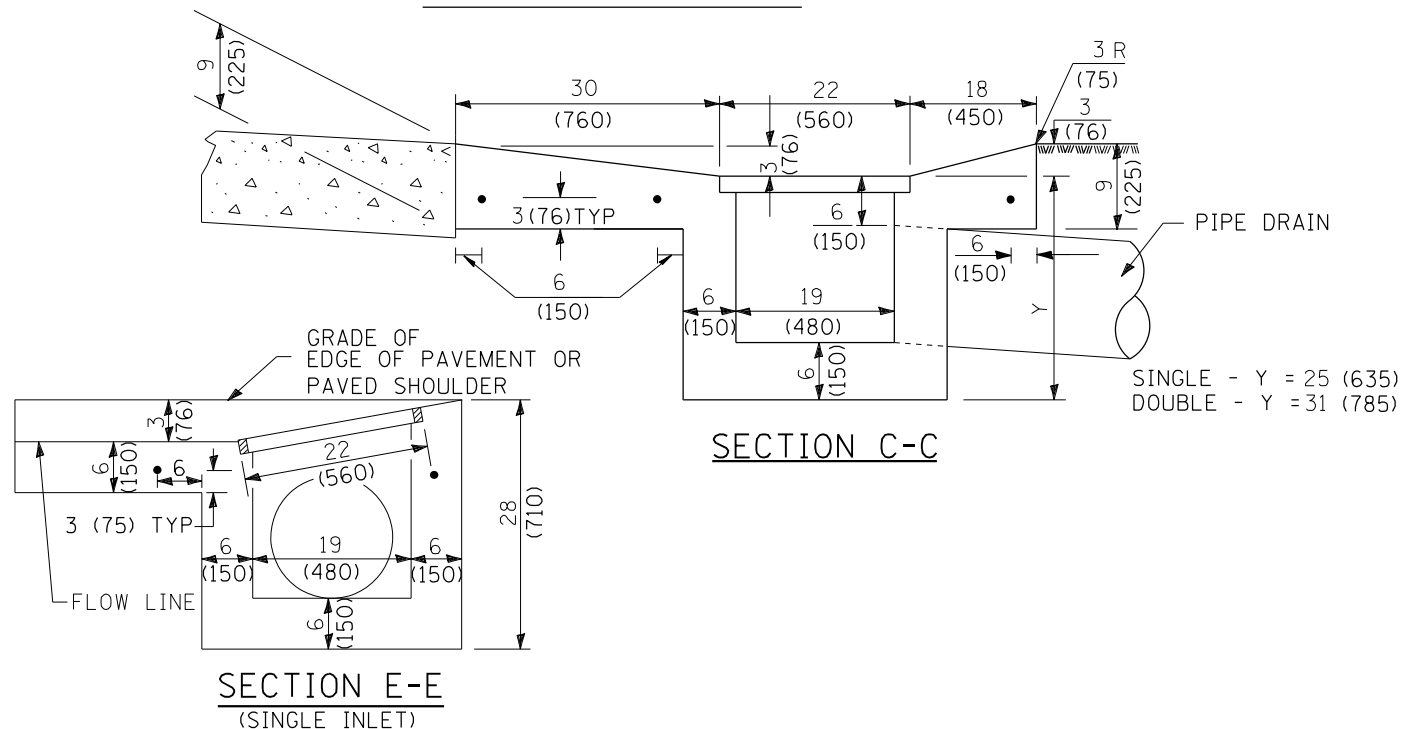


SECTION D-D
(DOUBLE INLET)



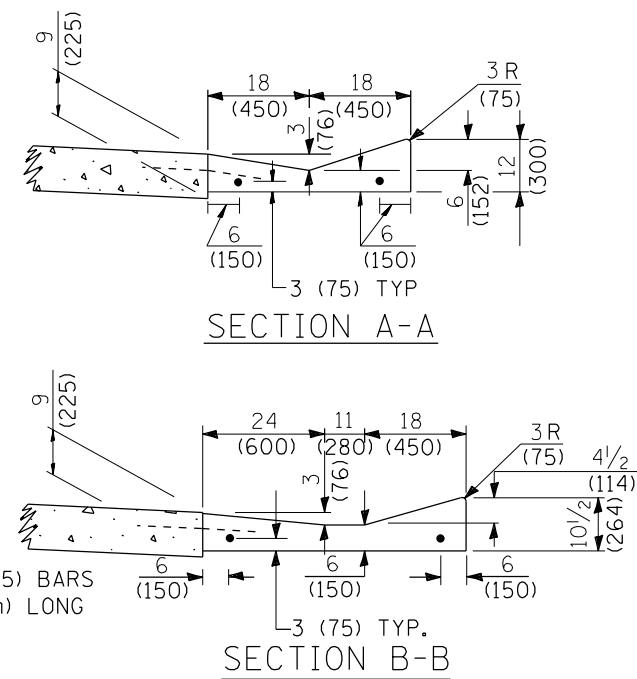
PLAN-DOUBLE OUTLET

PLAN-SINGLE OUTLET



SECTION C-C

SECTION E-E
(SINGLE INLET)



SECTION A-A

SECTION B-B

QUANTITIES

MATERIAL	SINGLE	DOUBLE
CONCRETE - (cu.yd.) m ³	()	()
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.

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

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	DESIGNER NOTES				
03-15-12	REVISIED TO 2007 SPEC.	M.A.			
	CHANGED MODIFIED TO SPECIAL	R.D.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

NOT TO SCALE

CADD STD. 606106-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	196
CONTRACT NO. 68B60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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)

USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1" (INCLUDE DISTRICT SPECIAL PROVISION).

INCLUDE STATE STANDARD 610001, IF APPLICABLE.

INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES

SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.

INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.

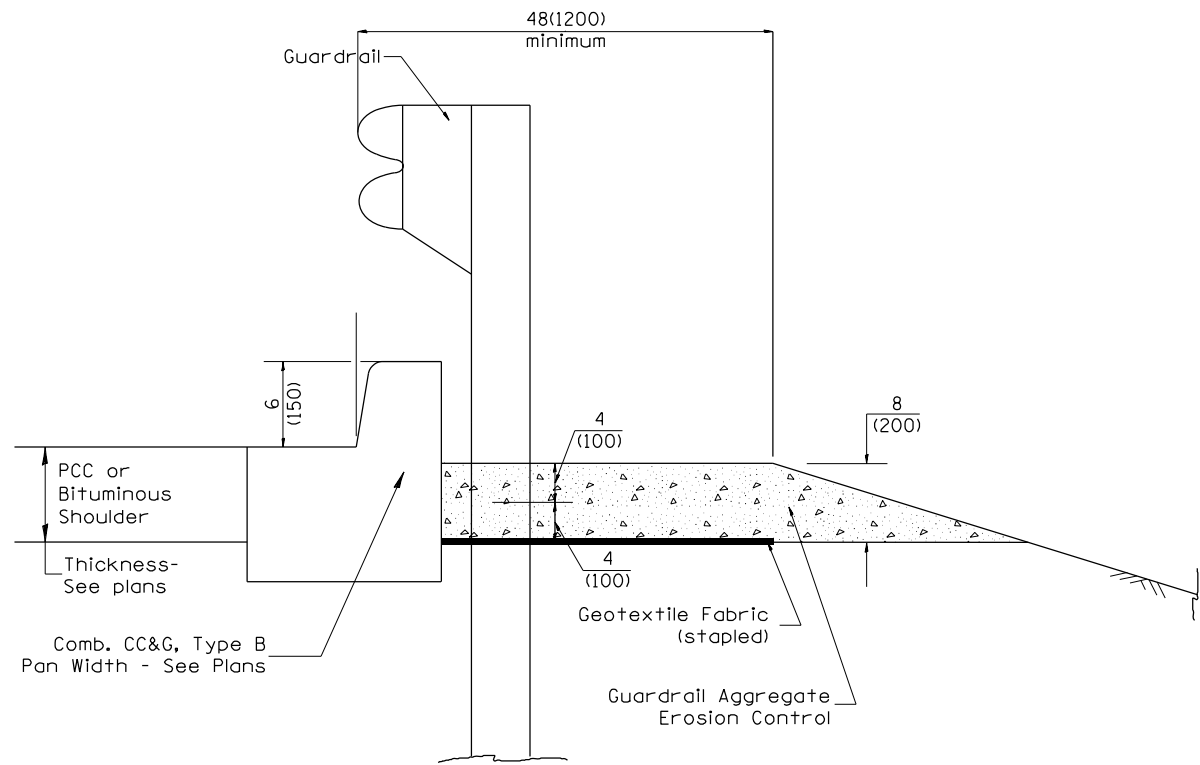
DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.

OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.

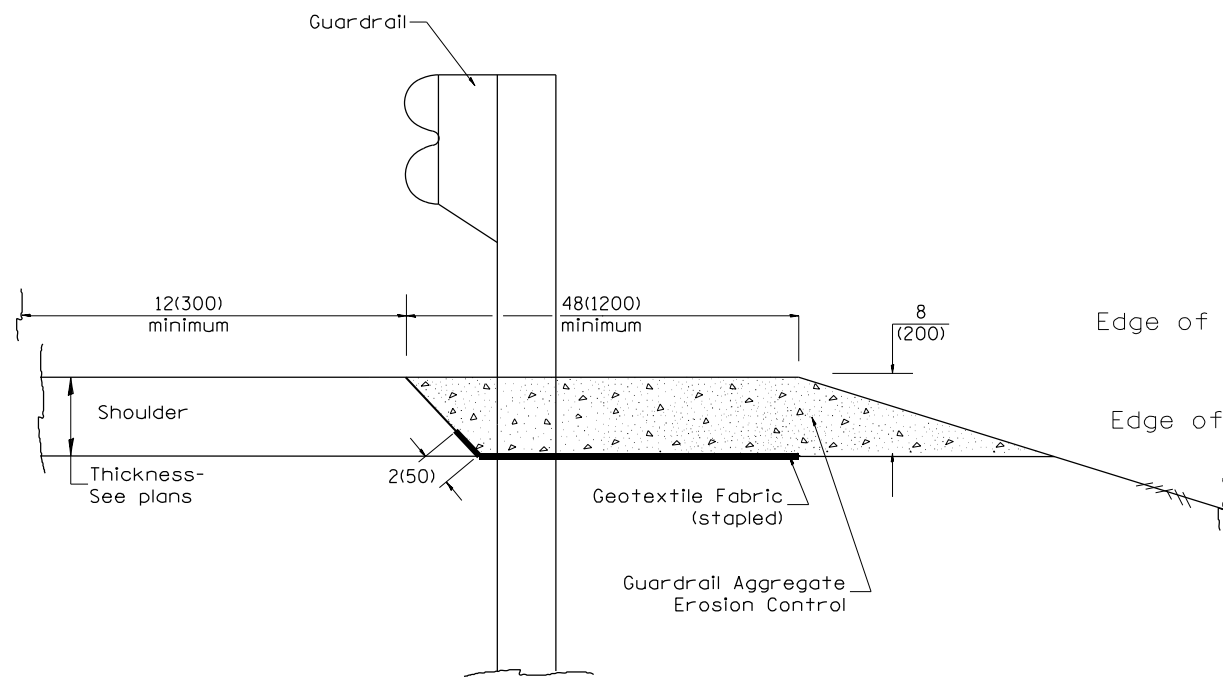
IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS

DESIGNER NOTES:

- 1:
- 2:
- 3:
- 4:
- 5:
- 6:
- 7:
- 8:



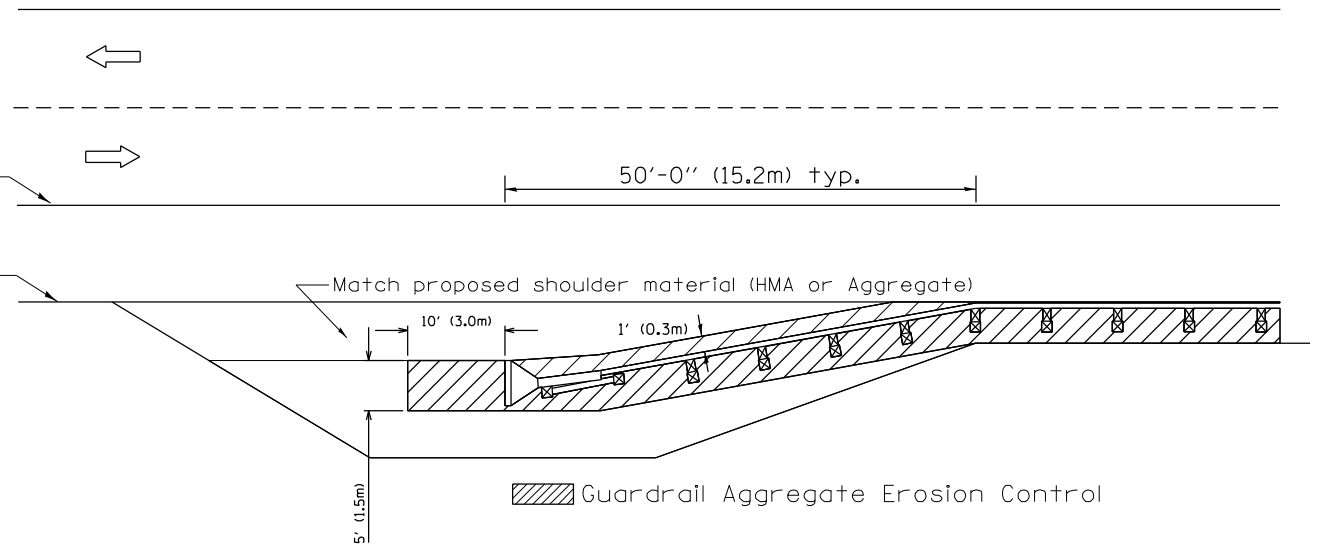
TYPICAL SECTION WITH COMBINATION CONCRETE CURB & GUTTER



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

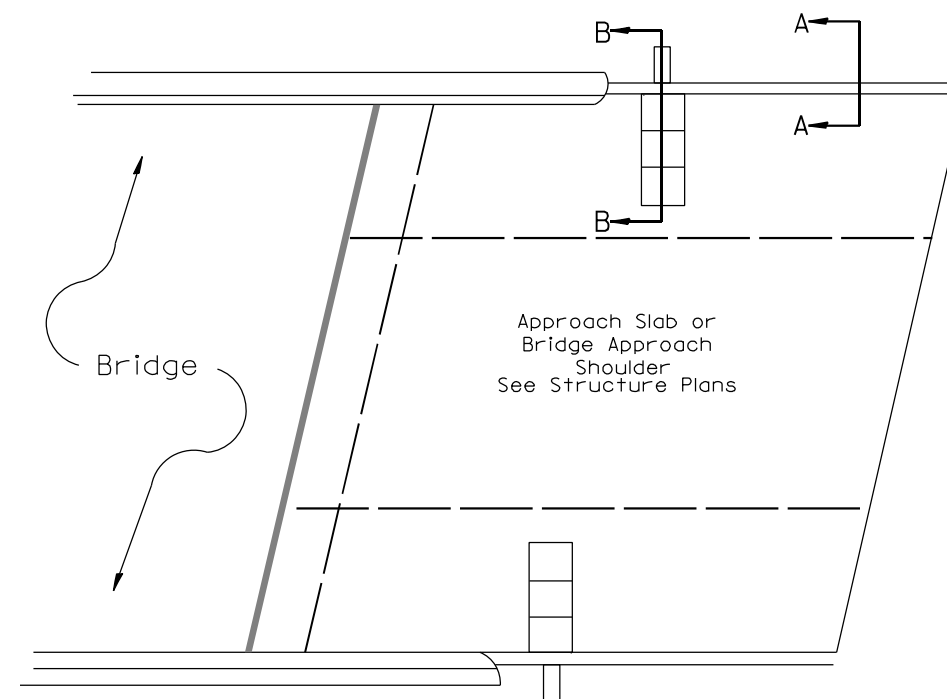
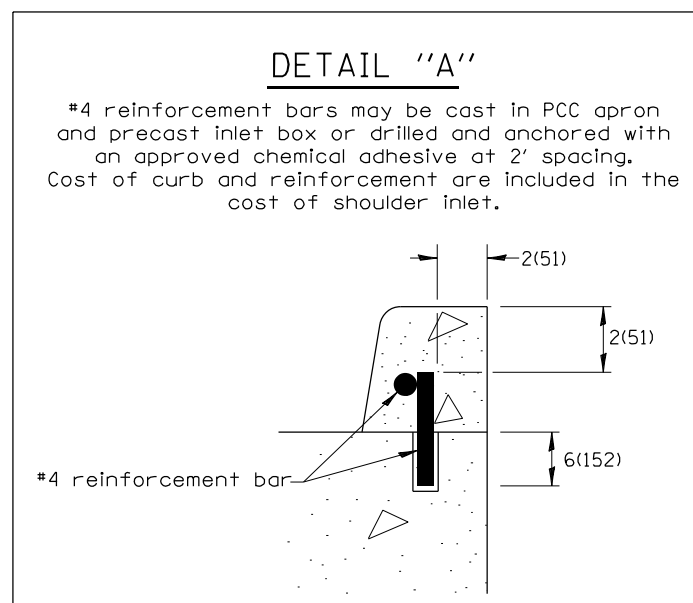
GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

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.

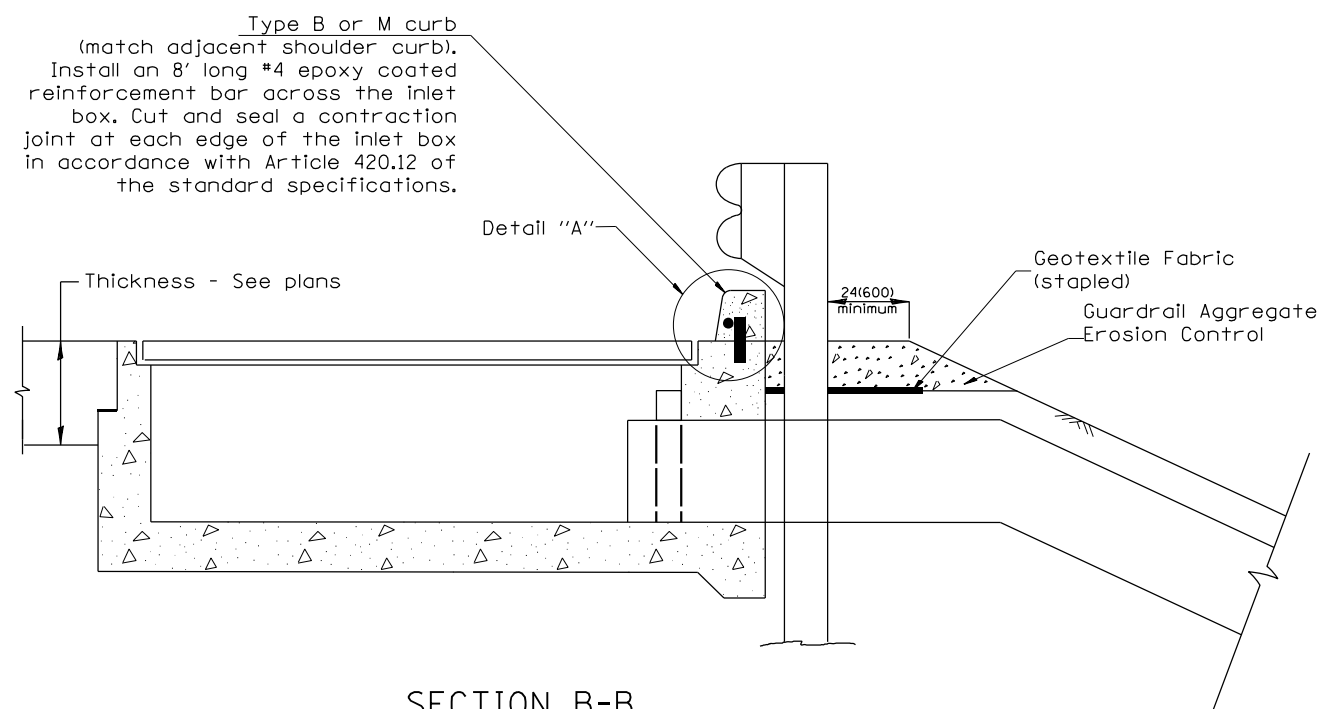


All dimensions are in inches (millimeters) unless otherwise noted.

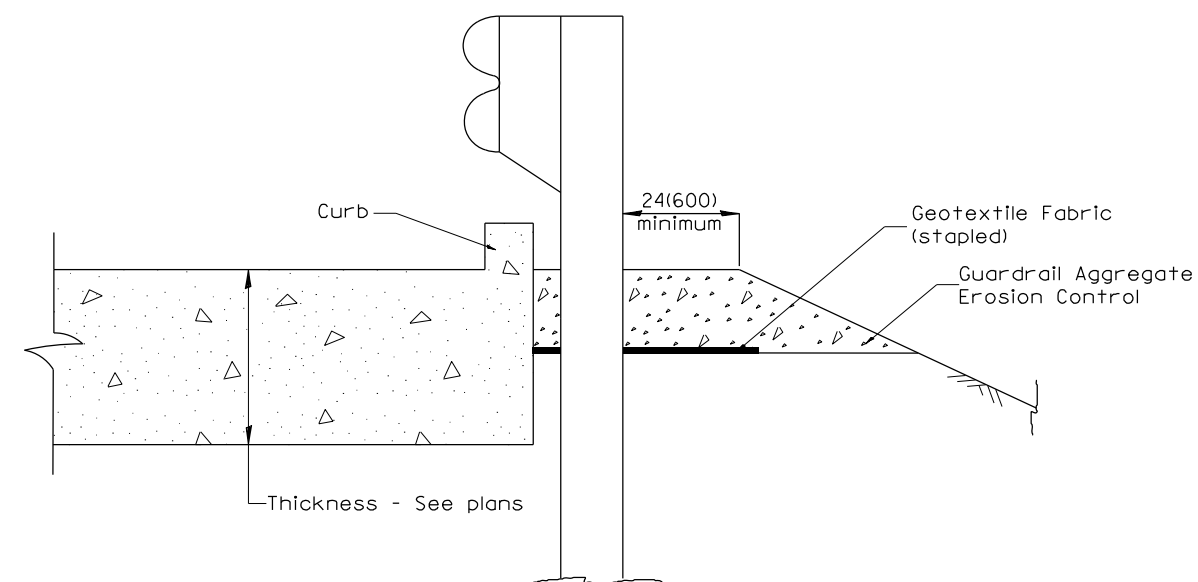
03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	5-30-18	CHANGE B CURB TO CC&G	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	SHT. 1 OF 2 CADD STD. 630101-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.	07-16-19	SPELLING CORRECTIONS	R.D.				310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	197
07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.							CONTRACT NO. 68B60				
01-26-17	REVISED	R.D.							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.

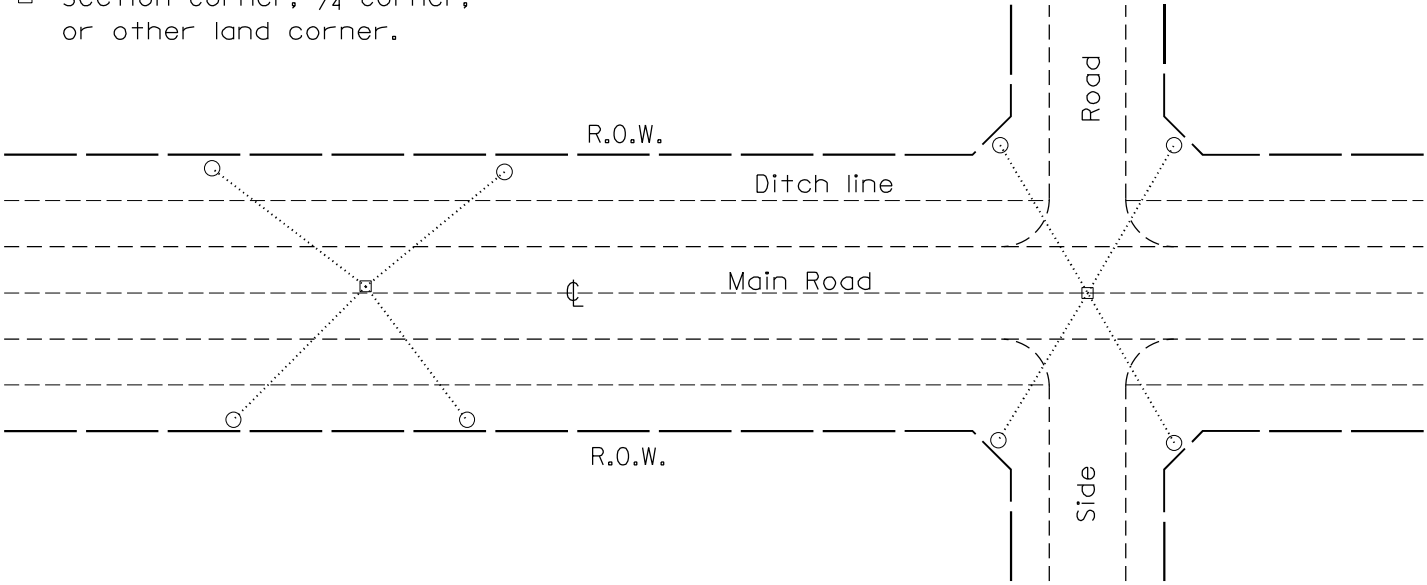
										STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GUARDRAIL EROSION CONTROL TREATMENTS		SHT. 2 OF 2 CADD STD. 630101-D4		F.A.P. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
																310		28W-2, 29W-1; 28RS-6, 29RS-4		WARREN		277		198	
																FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT					

DESIGNER NOTES:

1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE 1 MARKER ON A STRUCTURE.
2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD
3. 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.
4. 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.

PERMANENT SURVEY TIES

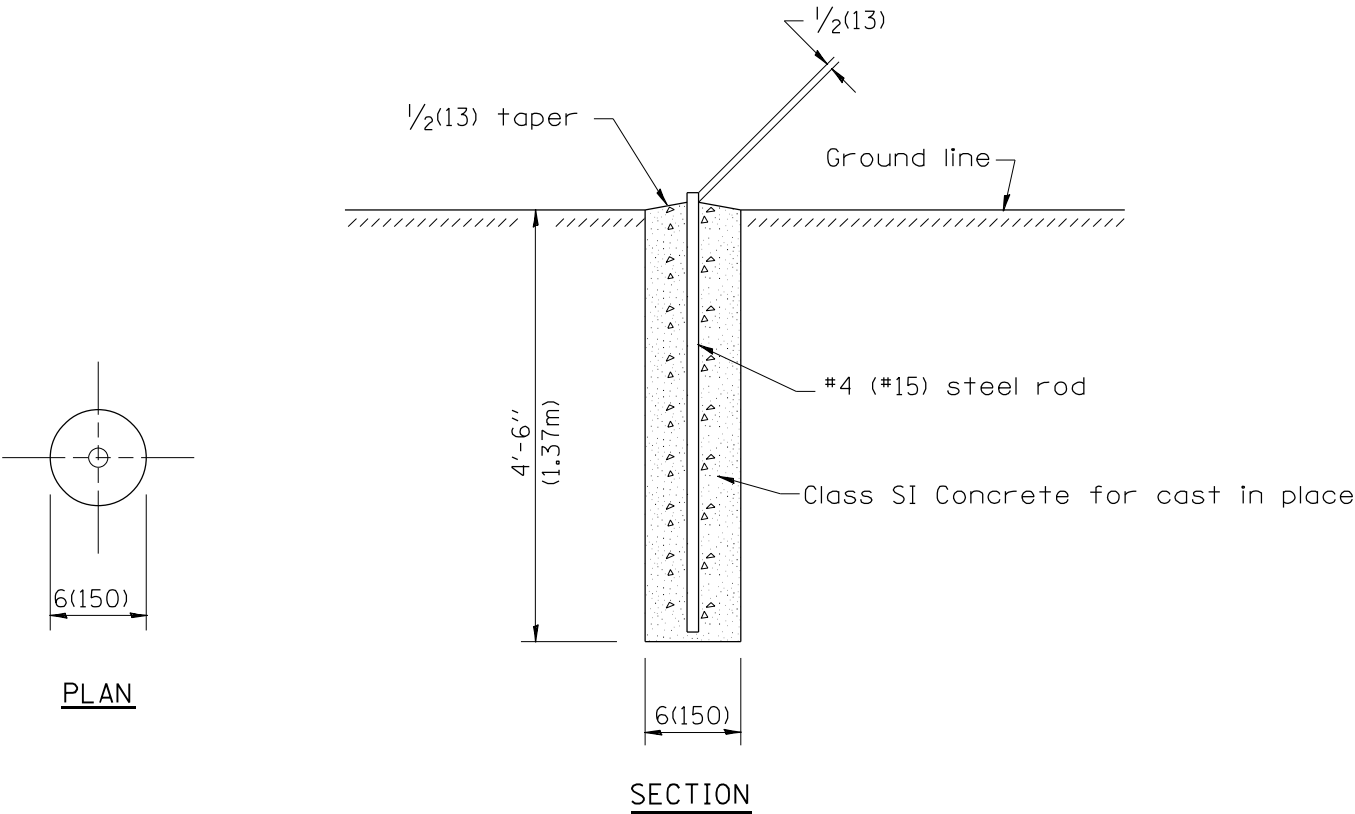
- Permanent Survey Tie
- Section Corner, 1/4 Corner, or other land corner.



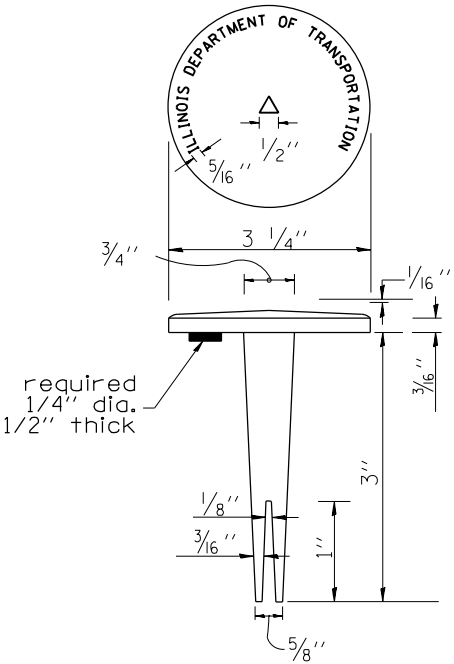
TYPICAL APPLICATION

GENERAL NOTES

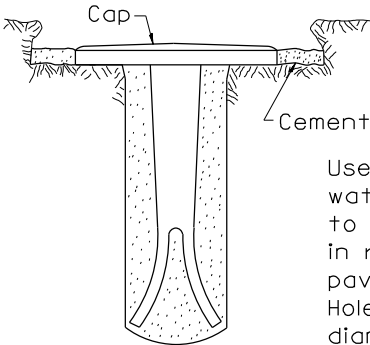
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall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



PERMANENT SURVEY MARKERS



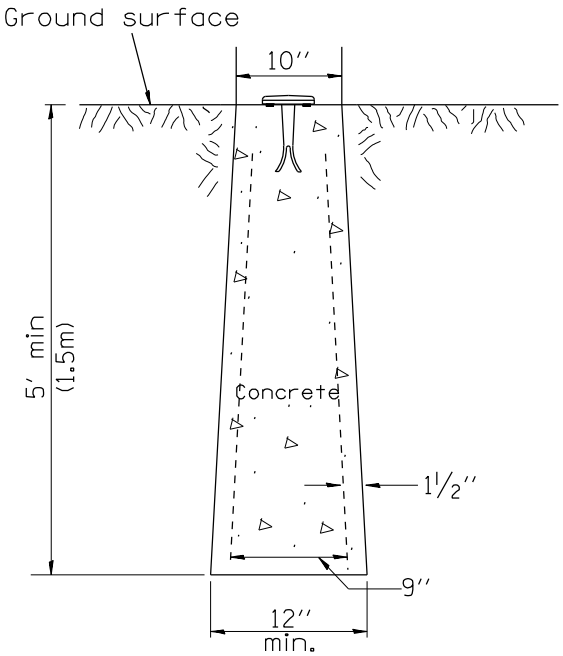
BRASS TABLET



TYPE I

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 llocated 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.



TYPE II
CAST-IN-PLACE MARKER

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

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

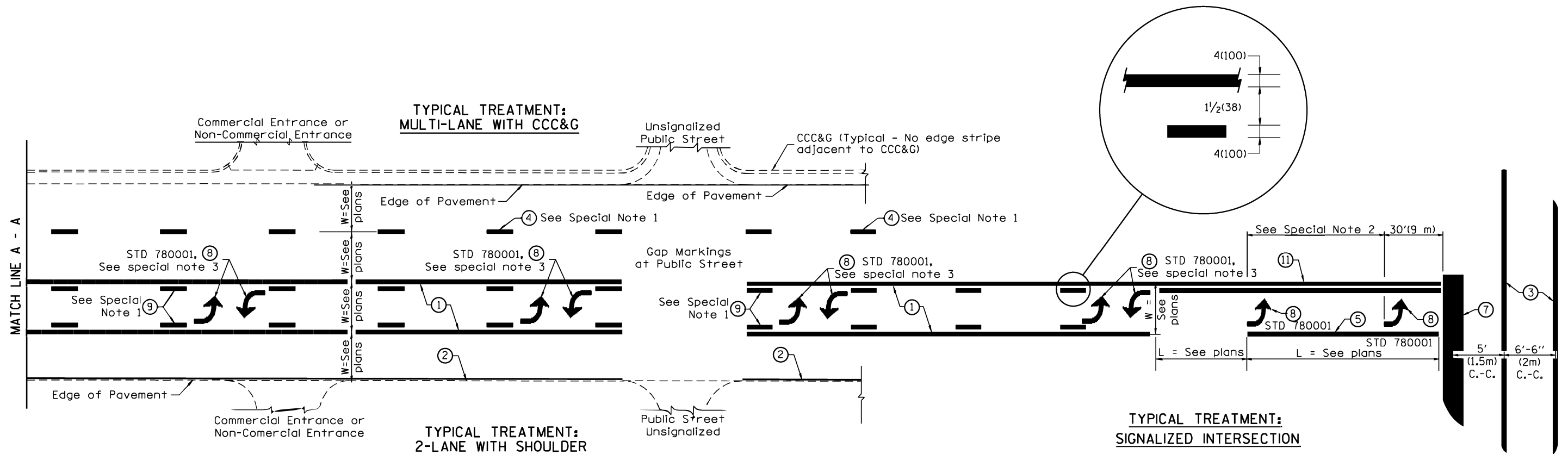
PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I – TY.II

NOT TO SCALE

CADD STD. 667101-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	28W-2, 29W-1; 28RS-6, 29RS-4	WARREN	277	199
CONTRACT NO. 68B60				
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) ⑩
- ⑪ 4(100) Double Solid (Yellow) ⑪

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.		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	SHT. 1 OF 2 CADD STD. 780001-D4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.				310	28W-2, 29W-1, 28RS-6, 29RS-4	WARREN	277	200
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.	07-16-19	SPELLING CORRECTIONS	R.D.				CONTRACT NO. 68B60				
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				