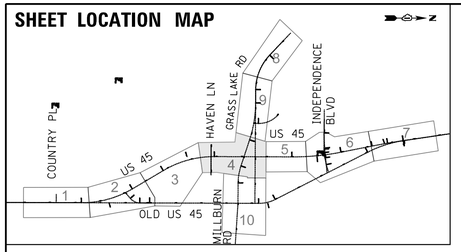
SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC PAVEMENT MARKING

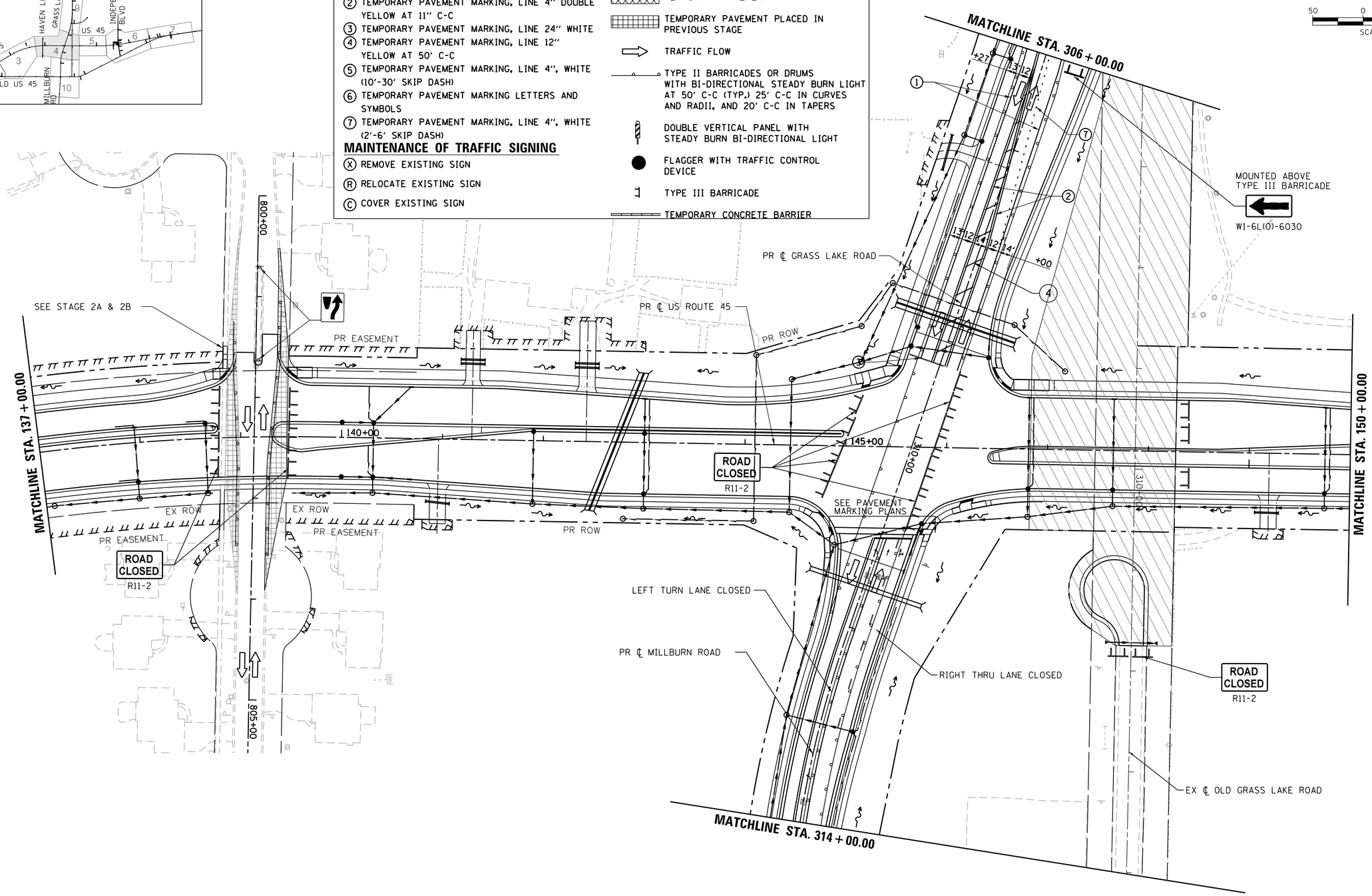
1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER



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SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
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GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

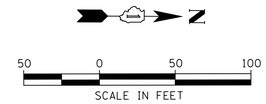
MAINTENANCE OF TRAFFIC STAGE 2

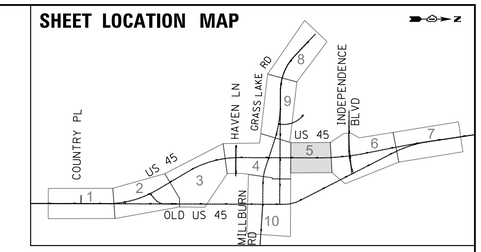
SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

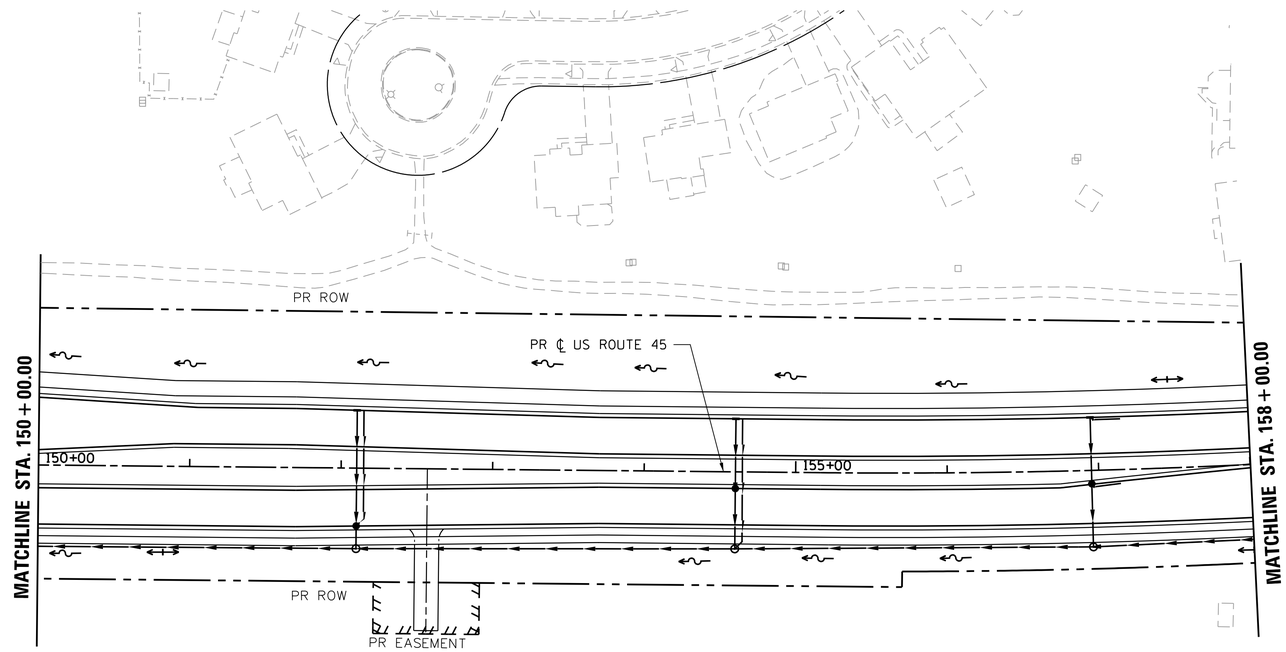
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	101

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT







MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTAT'NS CHK'D		
NOTE BOOK NO.		

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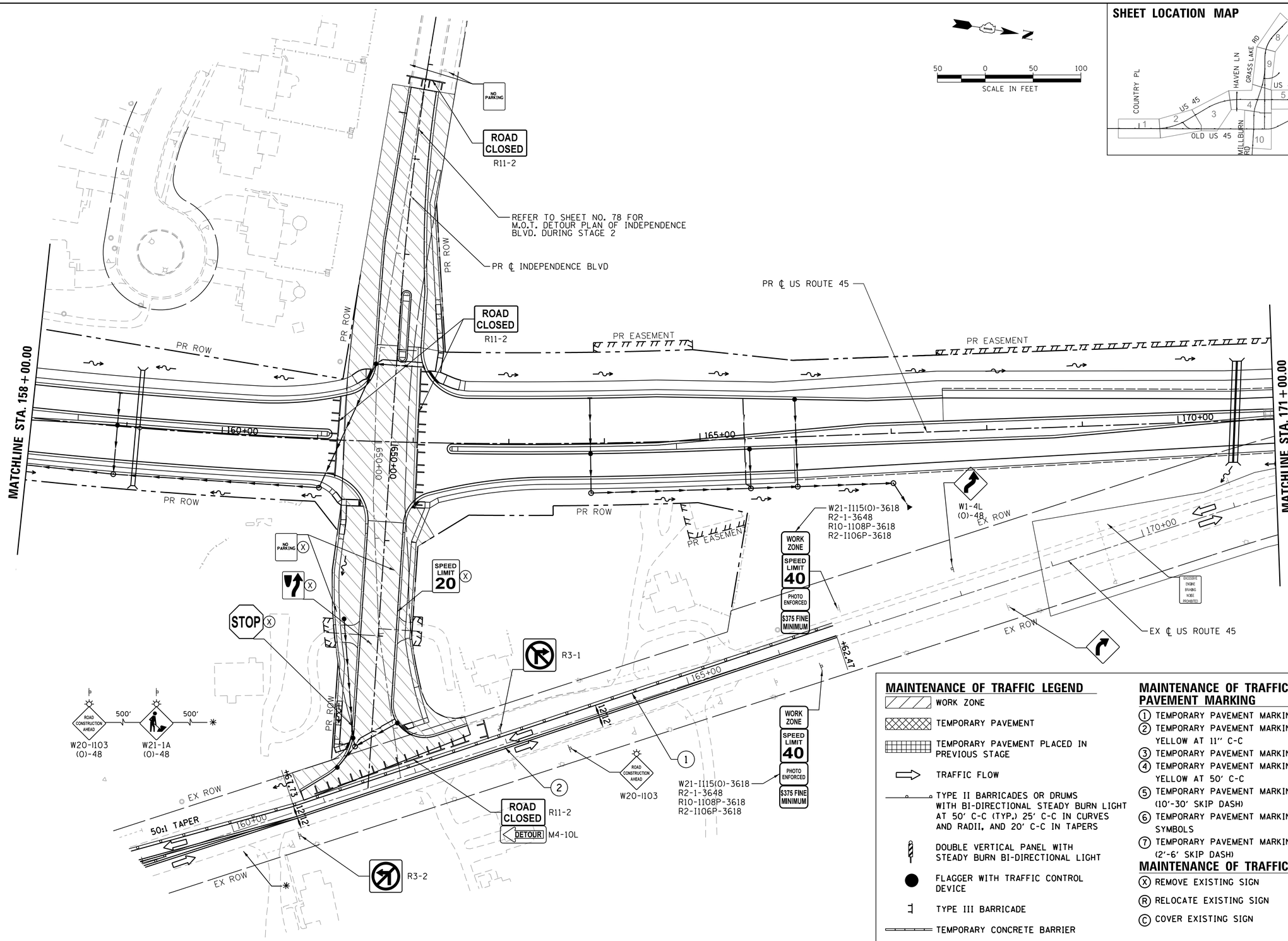
	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	102
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA. 171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	103

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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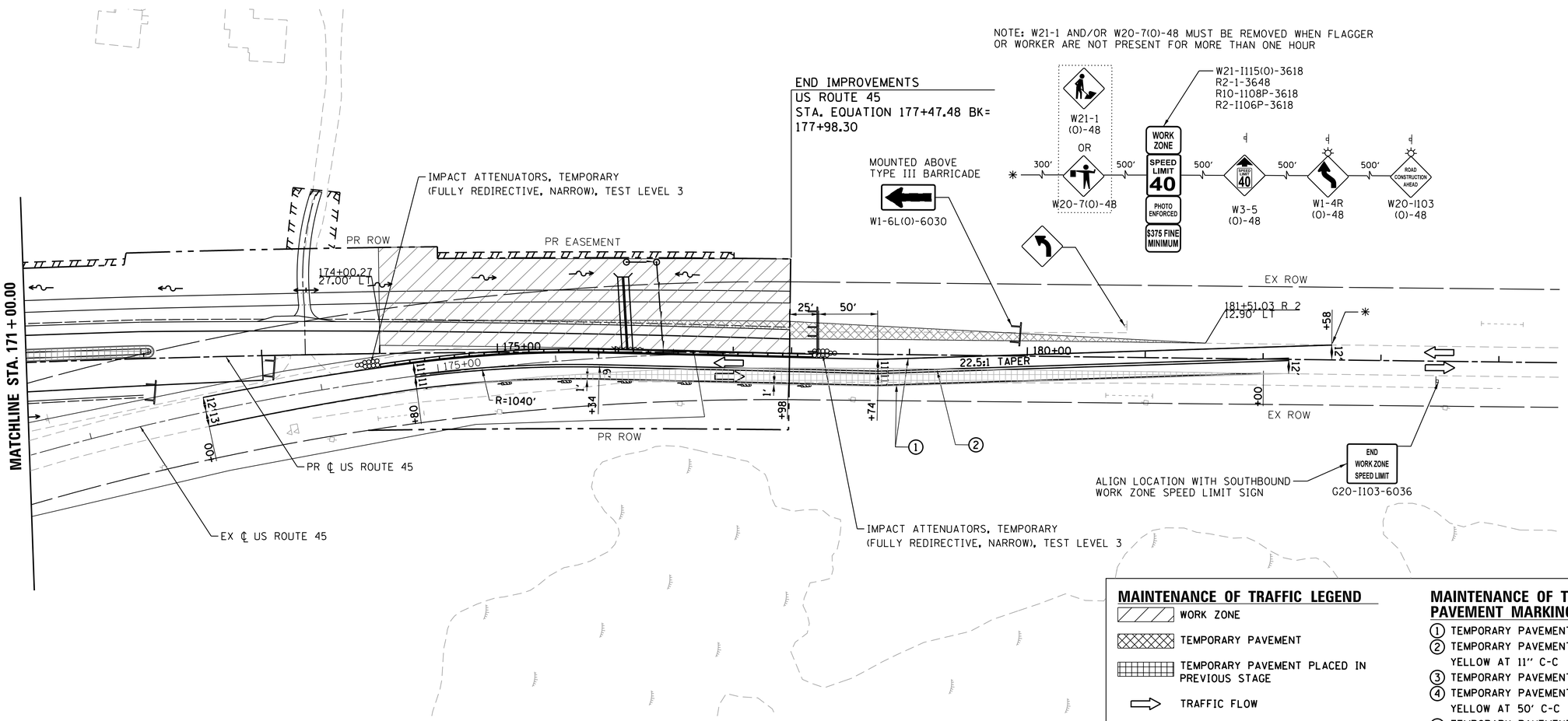

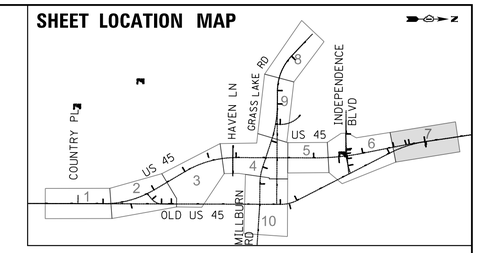

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA.178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	104
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

PLAN — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTAT'NS CH'KD — BY — DATE

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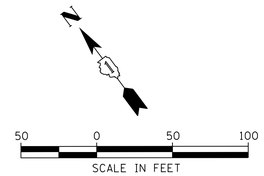

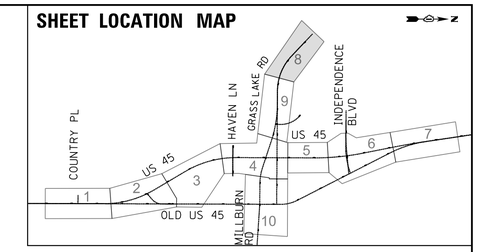

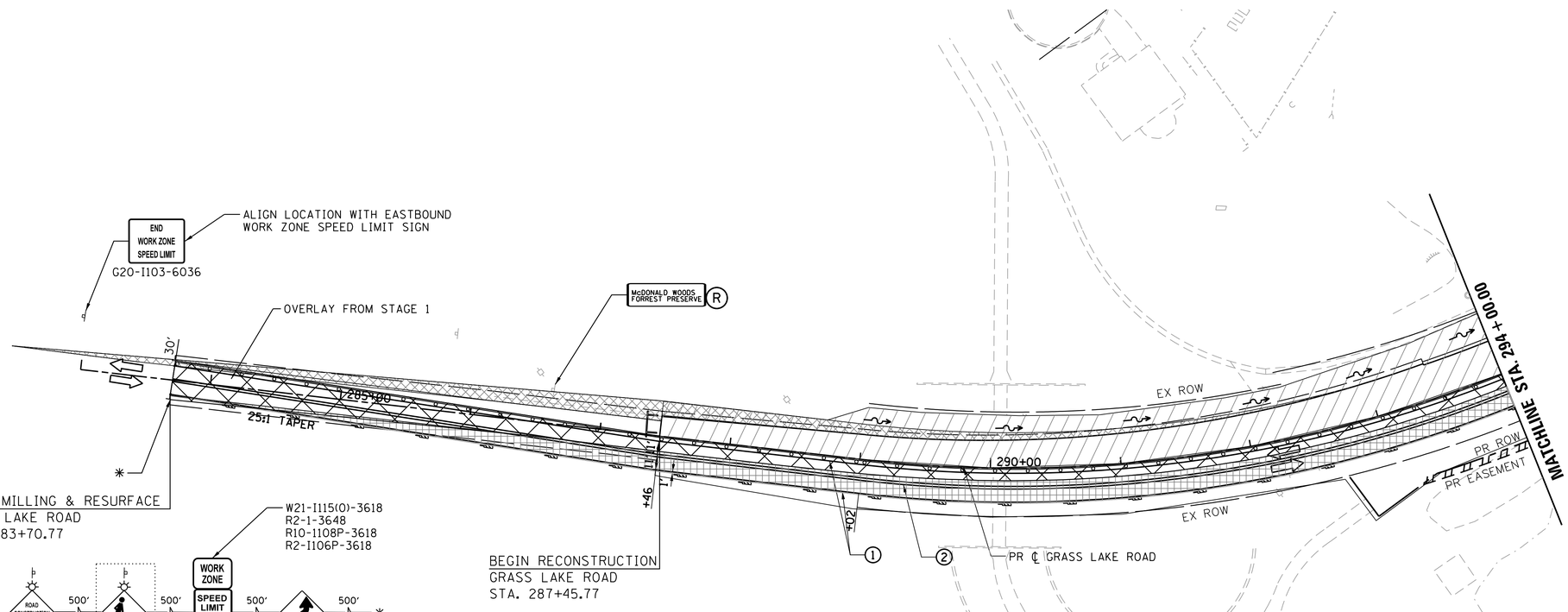

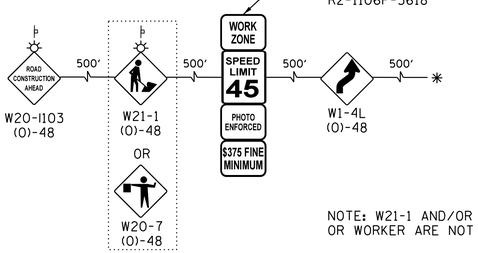

NOTE: W21-1 AND/OR W20-7(O)-48 MUST BE REMOVED WHEN FLAGGER OR WORKER ARE NOT PRESENT FOR MORE THAN ONE HOUR

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
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PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
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PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC STAGE 2

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	105

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

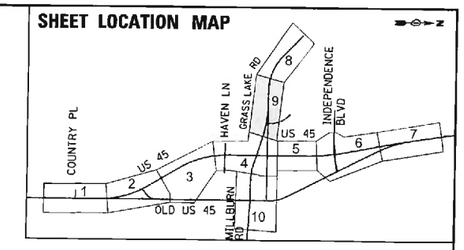
MAINTENANCE OF TRAFFIC SIGNING

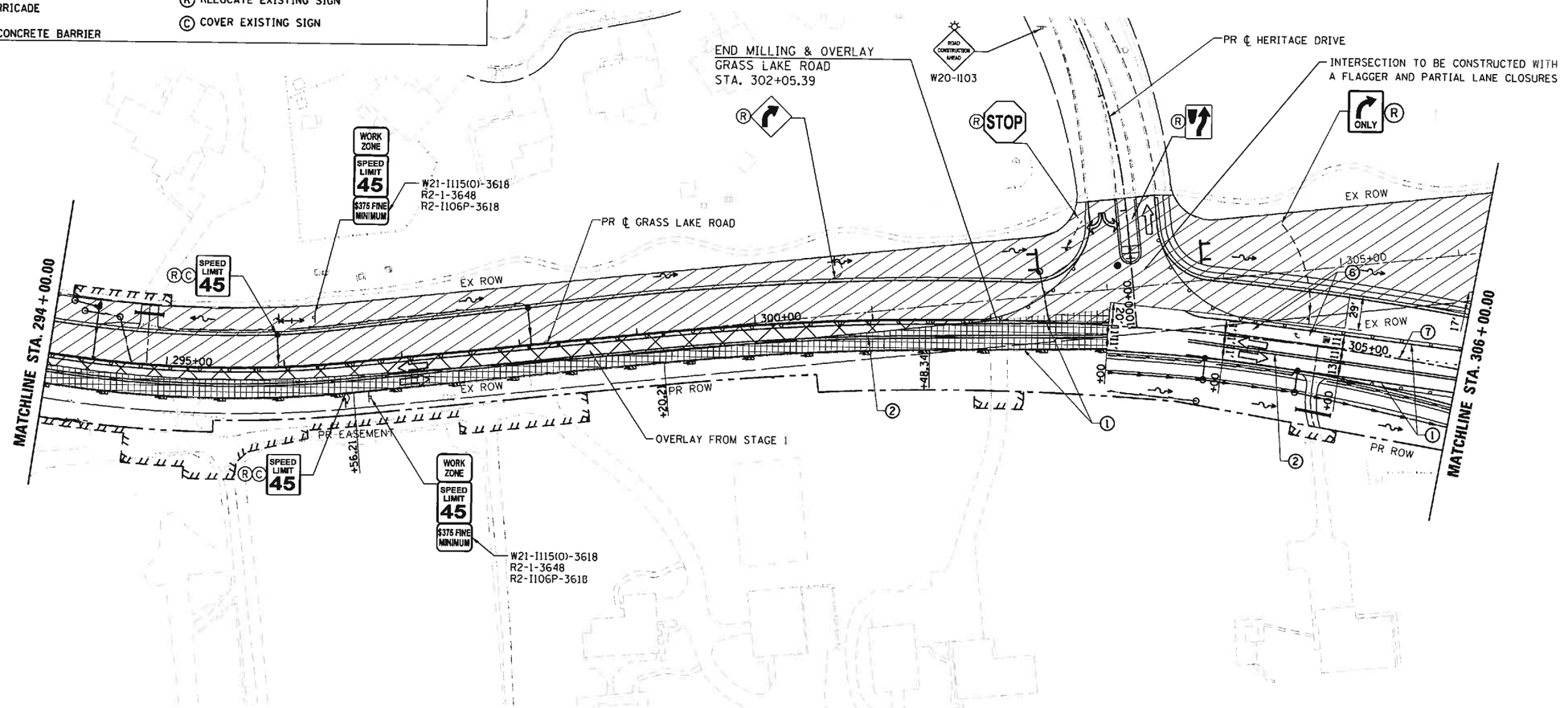
- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

N

SCALE IN FEET: 50 0 50 100

SHEET LOCATION MAP





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PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 2

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	106

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RIGHT OF WAY CHECKED		
NOTE BOOK		
NO.		
CADD FILE NAME		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
NOTE BOOK		
NO.		
STRUCTURE NOTATIONS CHKD		

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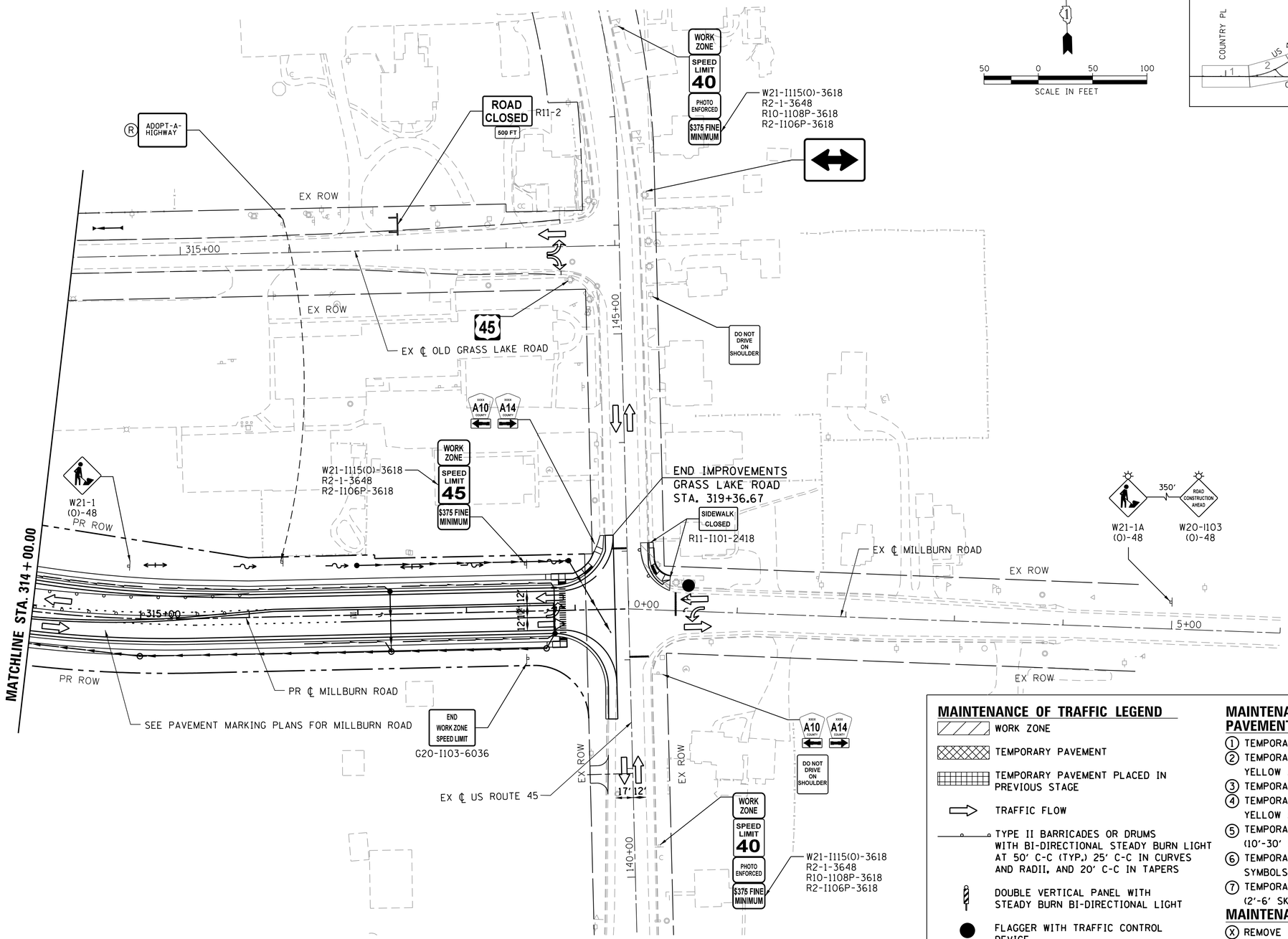

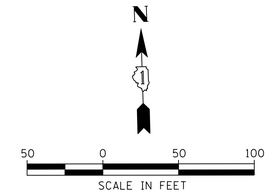

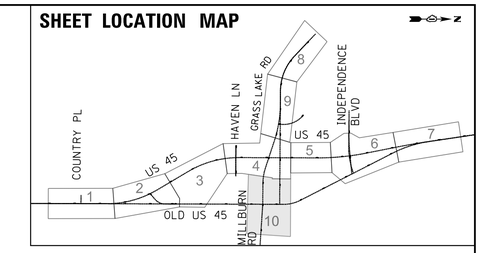

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
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7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTAT'NS CH'KD		

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	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 2

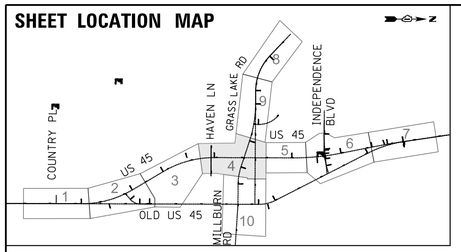
SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	107

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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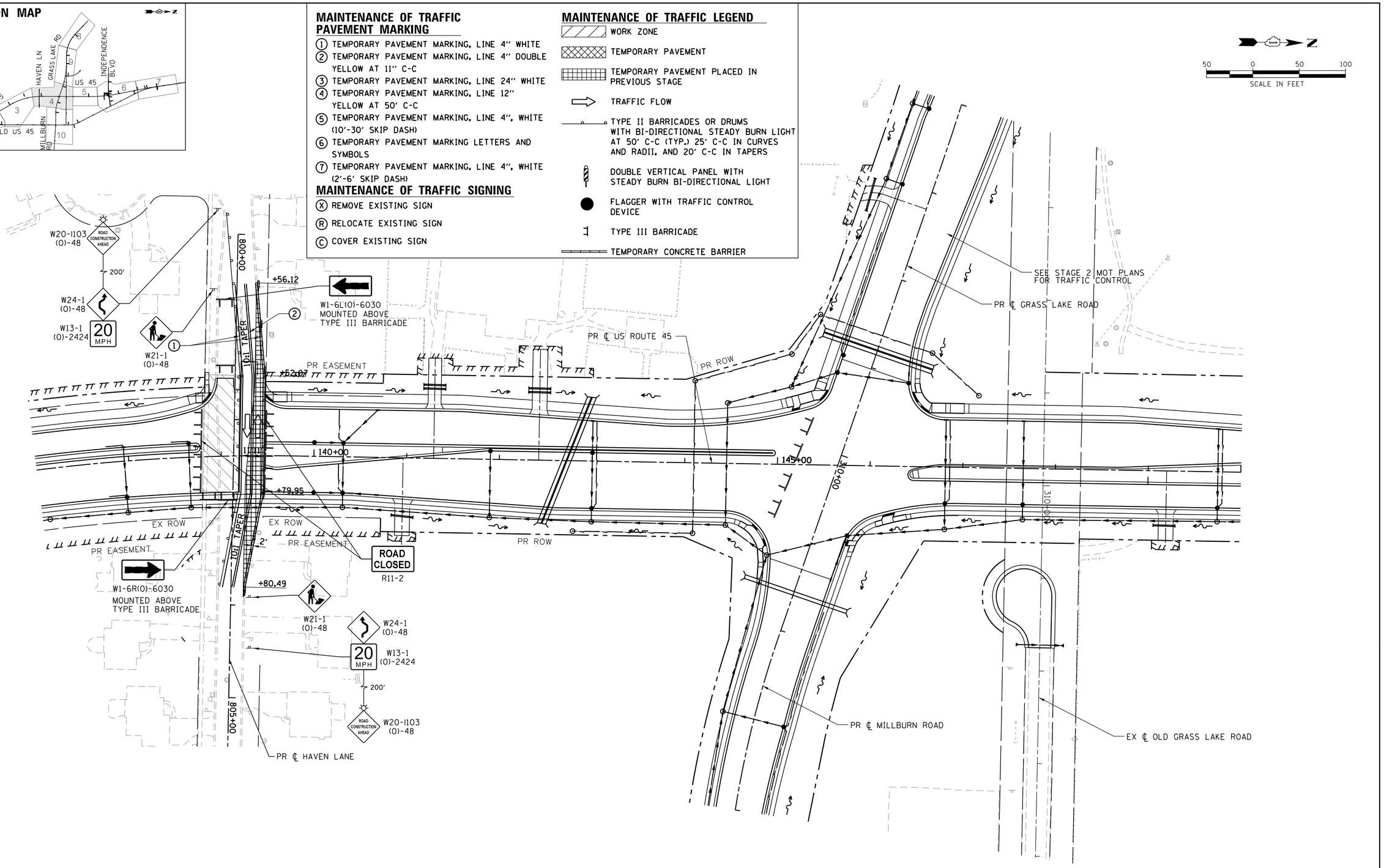
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER



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PLOTTED			
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CADD FILE NAME			
NOTE BOOK NO.			

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SURVEYED			
PLOTTED			
GRADES CHECKED			
B.M. NOTED			
STRUCTURE NOTAT'NS CH'KD			
NOTE BOOK NO.			

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 3A

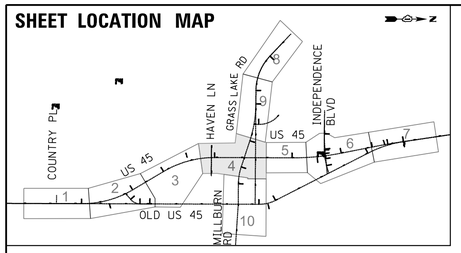
SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	108

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

SCALE IN FEET: 50 0 50 100

W20-I103 (O)-48 — ROAD CONSTRUCTION AHEAD
200'
W24-1 (O)-48
W13-1P — 20 MPH
W21-1 (O)-48
+54.59
+55.46
+79.48
+81.87
+19.57
800+00
TGT TAPER
W1-6R(O)-6030 MOUNTED ABOVE TYPE III BARRICADE
W1-6L(O)-6030 MOUNTED ABOVE TYPE III BARRICADE
PR EASEMENT
PR ROW
EX ROW
PR ℄ US ROUTE 45
PR ℄ HAVEN LANE
PR ℄ GRASS LAKE ROAD
PR ℄ MILLBURN ROAD
EX ℄ OLD GRASS LAKE ROAD
SEE STAGE 2 MOT PLANS FOR TRAFFIC CONTROL
140+00
145+00
310+00
ROAD CLOSED
R11-2

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	PROPERTY CHECKED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
NOTE BOOK	CADD FILE NAME		
NO.			

PROFILE	SURVEYED	BY	DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

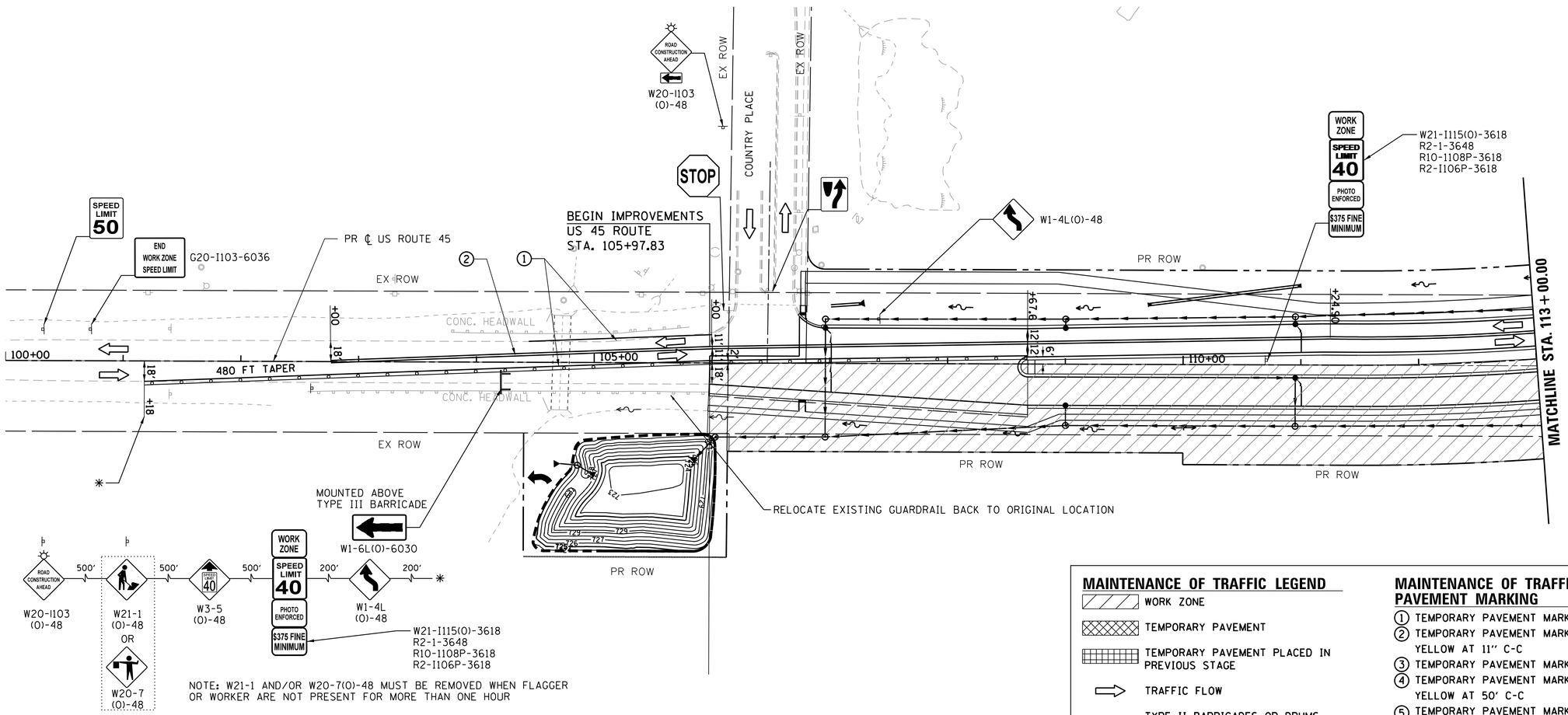
MAINTENANCE OF TRAFFIC
STAGE 3B

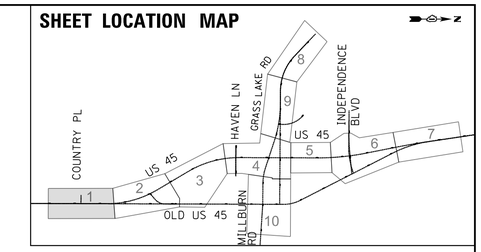
SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	109

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 3

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA.113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	110
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

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MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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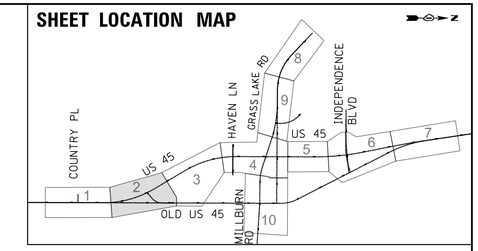
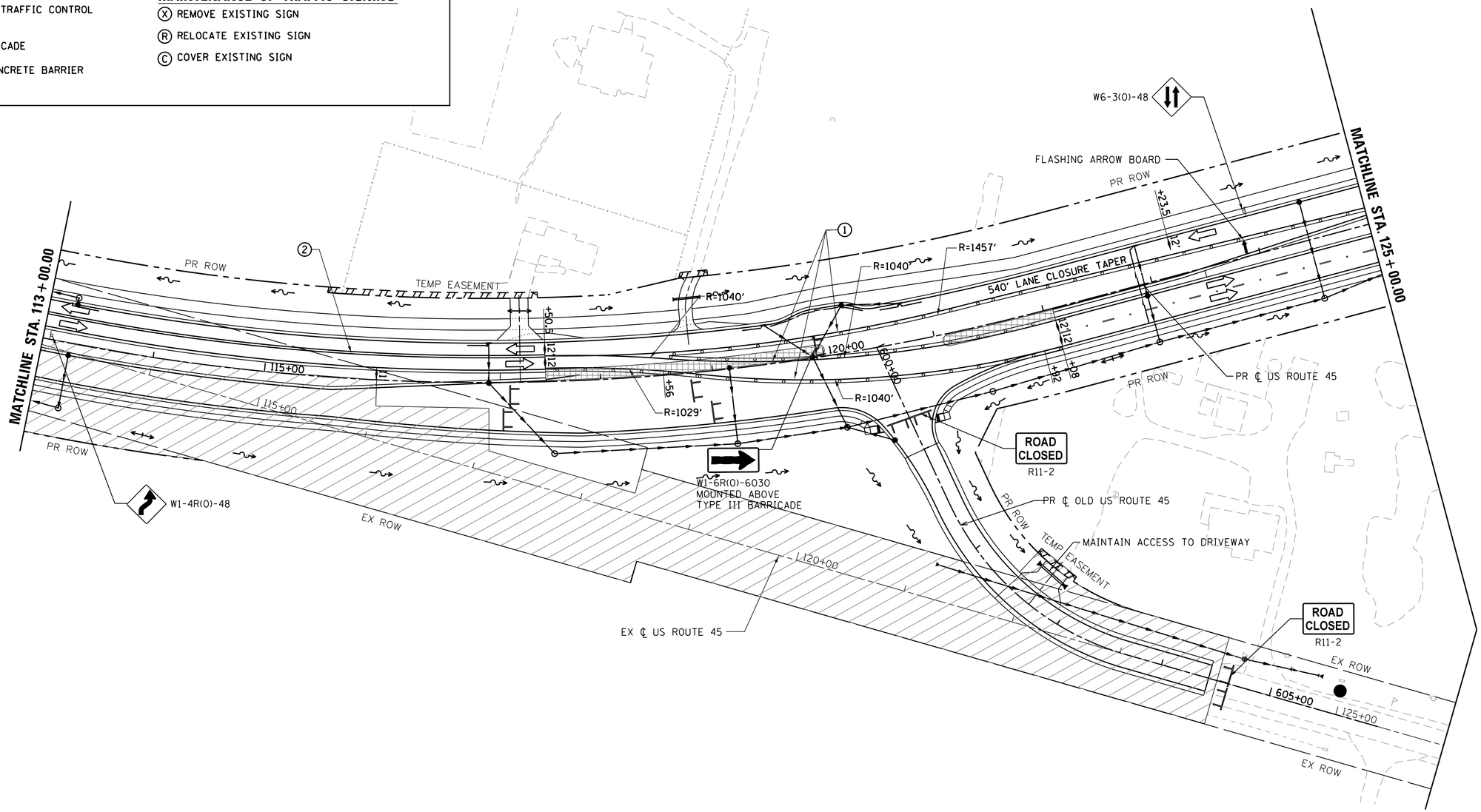
MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

SCALE IN FEET: 50 0 50 100

SHEET LOCATION MAP





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NOTE BOOK NO.		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

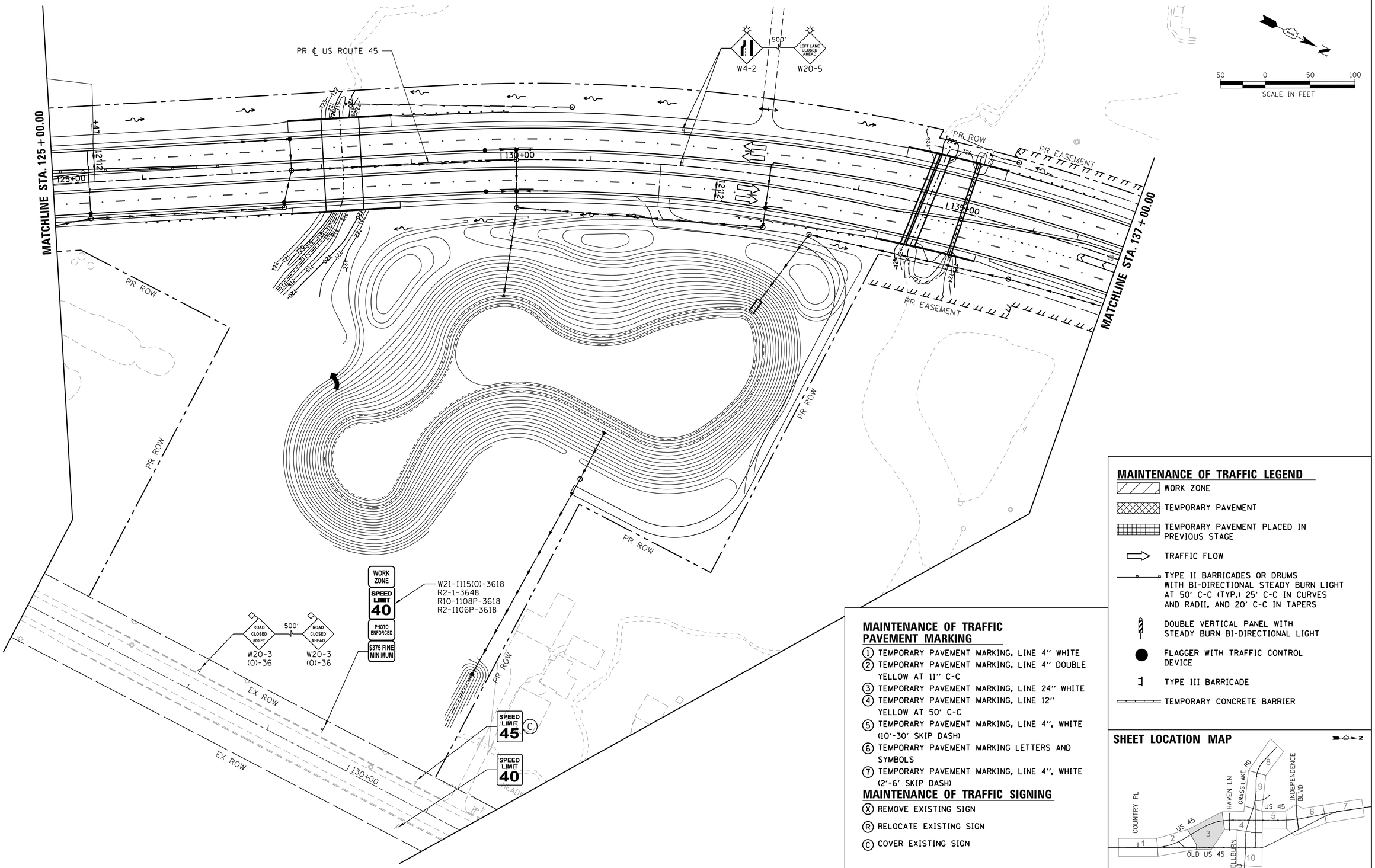
MAINTENANCE OF TRAFFIC
STAGE 3

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 113+00 TO STA.125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	111

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

SHEET LOCATION MAP

PLAN	BY	DATE
SURVEYED		
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 3

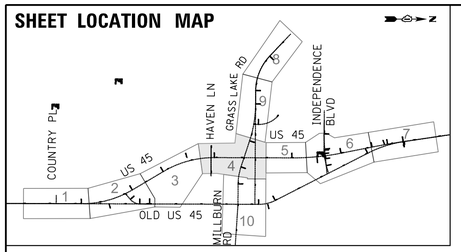
SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	112

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
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- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

SEE PAVEMENT MARKING PLANS FOR EB GRASS LAKE ROAD EAST OF STA 306+27.00

SCALE IN FEET: 50 0 50 100

MATCHLINE STA. 306 + 00.00

RIGHT LANE MUST TURN RIGHT 100 FEET R3-7R

RIGHT LANE MUST TURN RIGHT 200 FEET R3-7R

PR ℄ GRASS LAKE ROAD

WORK ZONE SPEED LIMIT 40 PHOTO ENFORCED $375 FINE MINIMUM

W21-I115(O)-3618
R2-1-3648
R10-I108P-3618
R2-I106P-3618

PR ℄ US ROUTE 45

PR ROW

PR ℄ HAVEN LANE

PR EASEMENT

800+00

MATCHLINE STA. 137 + 00.00

140+00

145+00

310+00

MATCHLINE STA. 150 + 00.00

EX ROW

PR EASEMENT

SEE PAVEMENT MARKING PLANS FOR US 45

CONTRACTOR TO PROVIDE ACCESS TO DRIVEWAYS DURING CONSTRUCTION

W21-1

OR

200'

W20-7 (O)-48

200'

W20-I103 (O)-48

ROAD CONSTRUCTION AHEAD

NOTE: W21-1 AND/OR W20-7(O)-48 MUST BE REMOVED WHEN FLAGGER OR WORKER ARE NOT PRESENT FOR MORE THAN ONE HOUR

ROAD CLOSED TO THRU TRAFFIC R11-4

805+00

PR ℄ MILLBURN ROAD

EX ℄ OLD GRASS LAKE ROAD

MATCHLINE STA. 314 + 00.00

PLAN		BY	DATE
NOTE BOOK NO. ____	SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

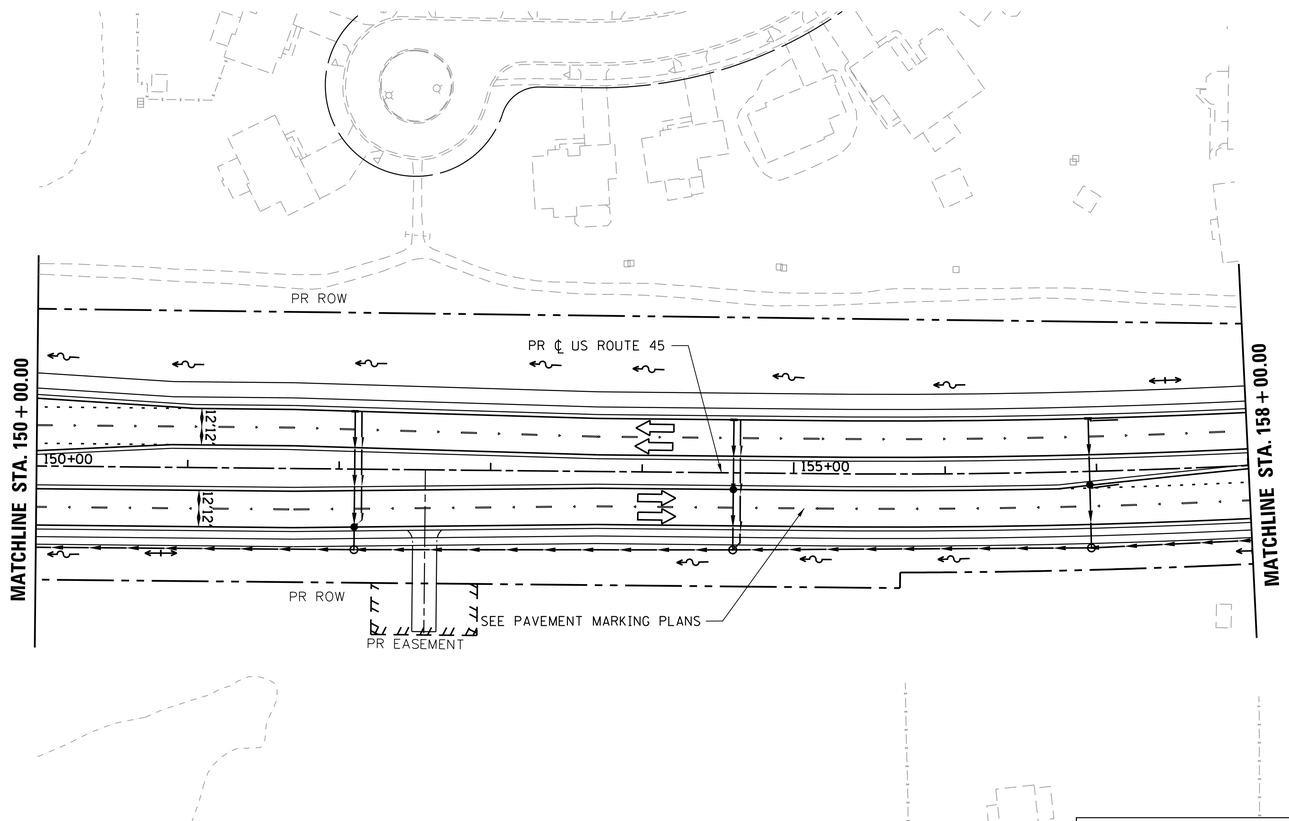
MAINTENANCE OF TRAFFIC
STAGE 3

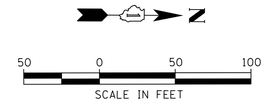
SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA.150+00

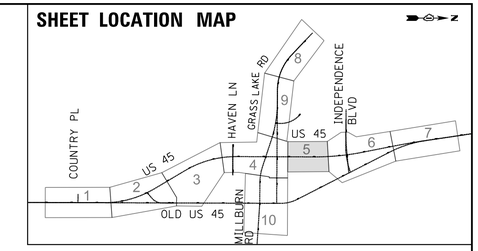
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	113

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT







MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
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MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	BM. NOTED		
	STRUCTURE NOTATNS CHKD		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

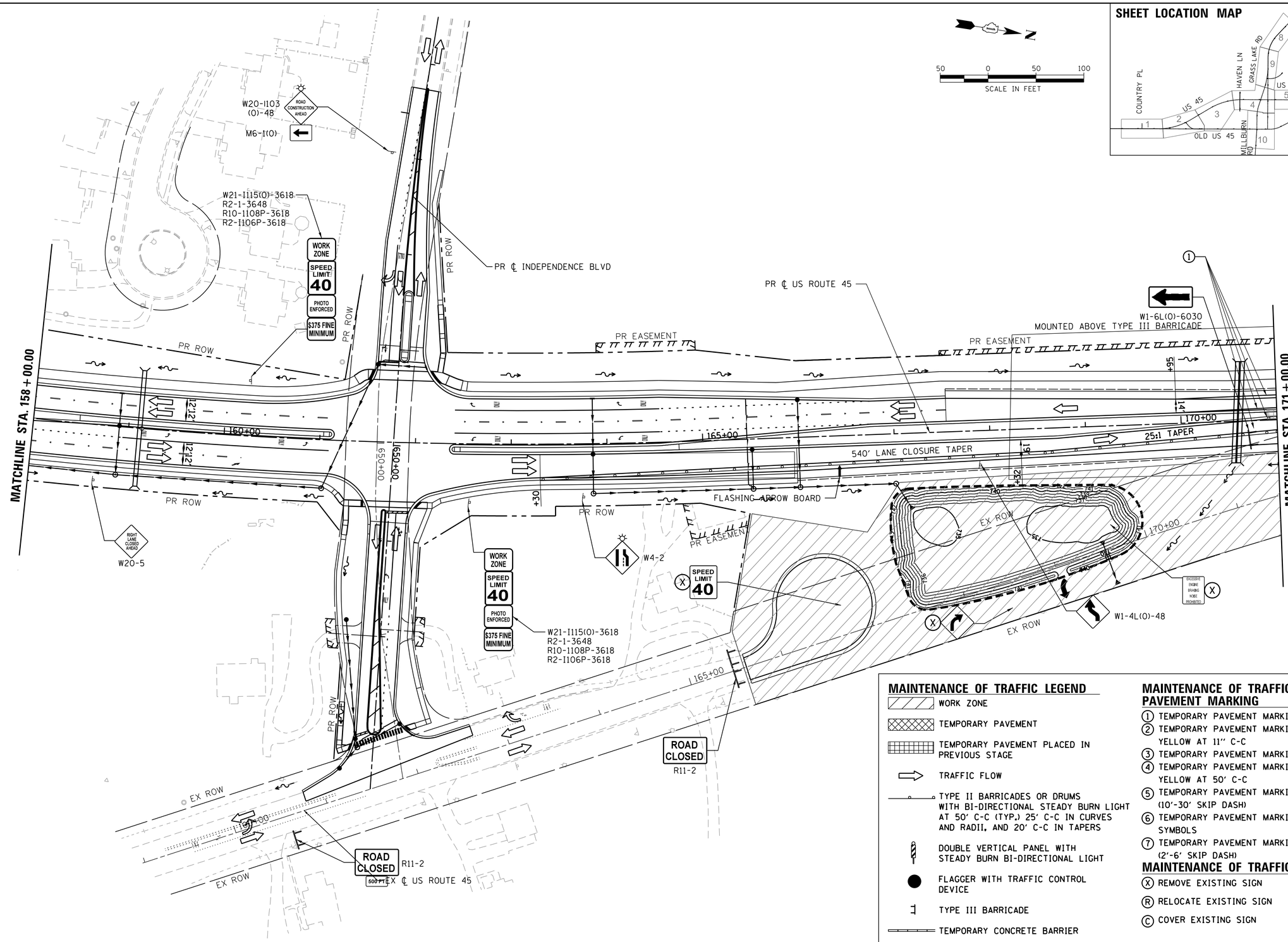
MAINTENANCE OF TRAFFIC
STAGE 3

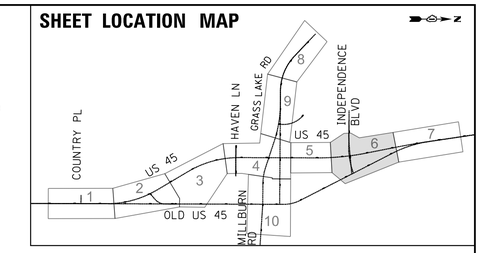
SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	114

CONTRACT NO. 60T75

ILLINOIS | FED. AID PROJECT





SCALE IN FEET: 50 0 50 100

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
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- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CH'KD		
NOTE BOOK NO.		

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	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

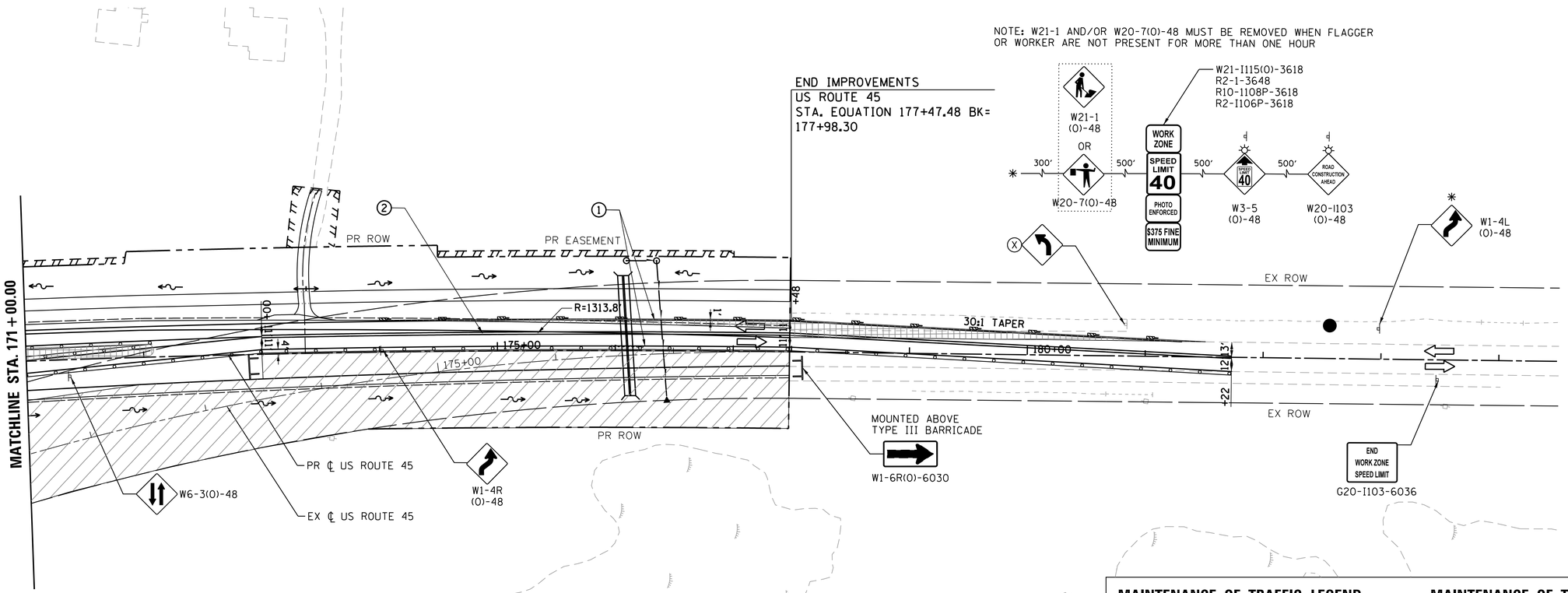
MAINTENANCE OF TRAFFIC
STAGE 3

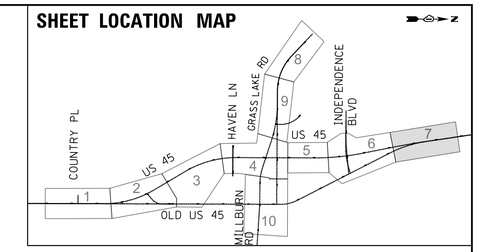
SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA.171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	115

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
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4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 3

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA.178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	116

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

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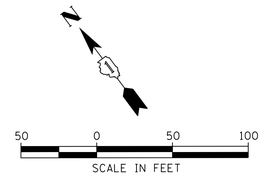

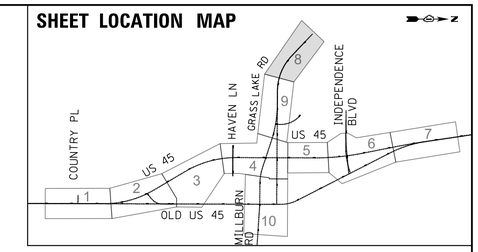

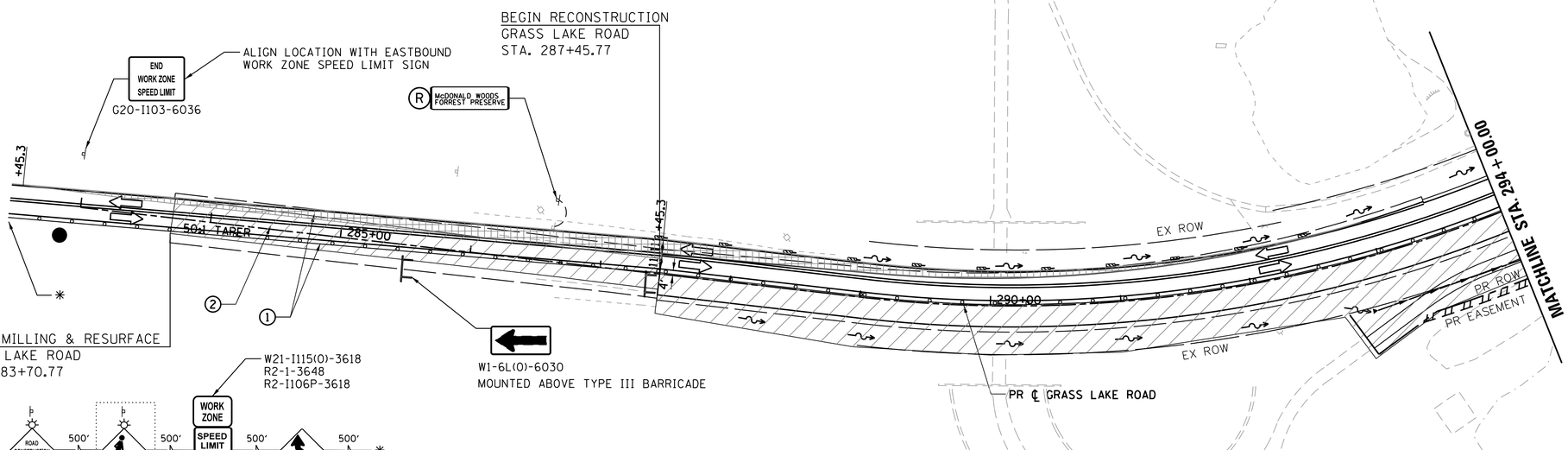

NOTE: W21-1 AND/OR W20-7(O)-48 MUST BE REMOVED WHEN FLAGGER OR WORKER ARE NOT PRESENT FOR MORE THAN ONE HOUR

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
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	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 3

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	117

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

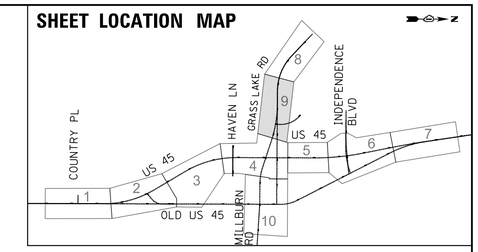
MAINTENANCE OF TRAFFIC SIGNING

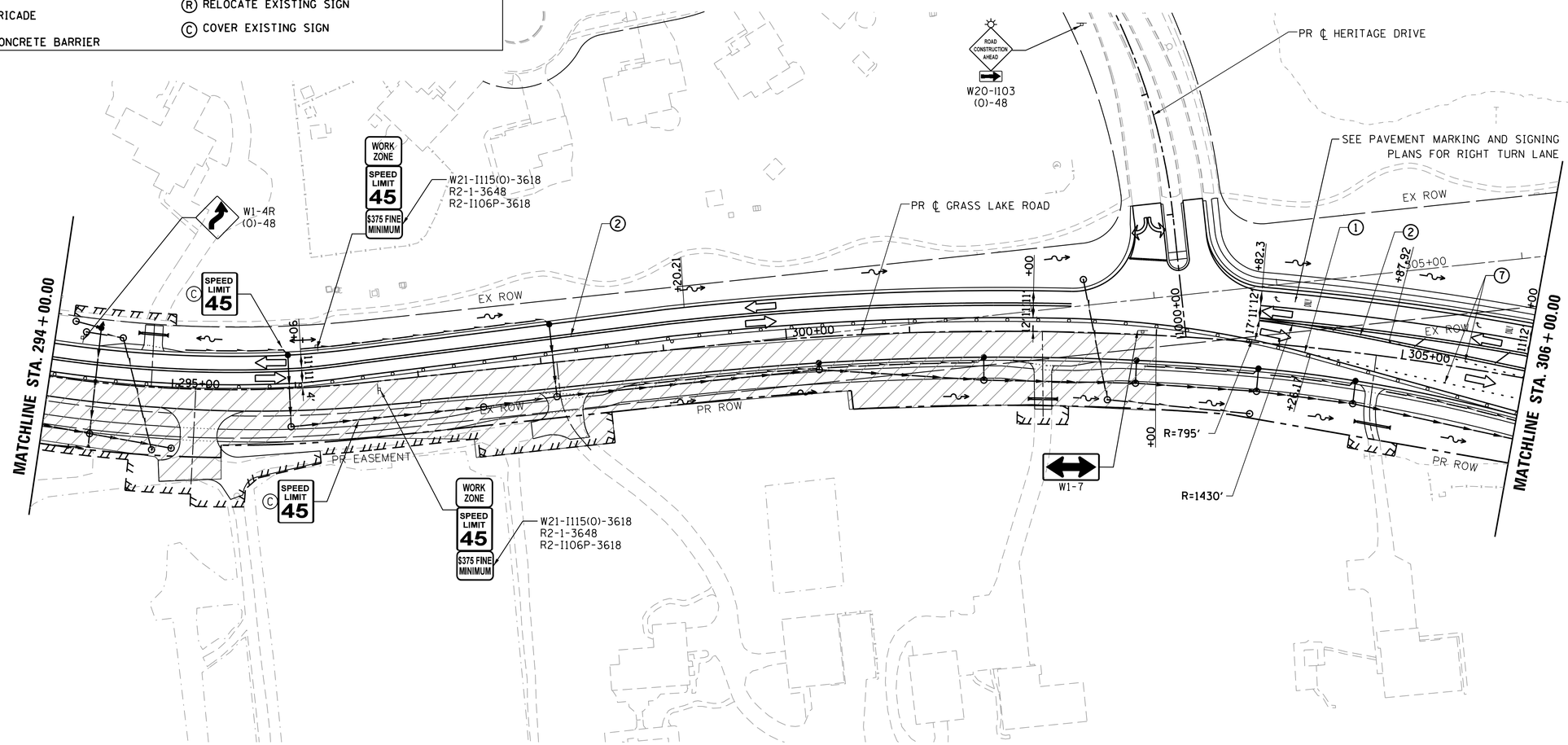
- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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SURVEYED			
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ALIGNMENT CHECKED			
RT. OF WAY CHECKED			
CADD FILE NAME			
NOTE BOOK NO.			

PROFILE		BY	DATE
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GRADES CHECKED			
B.M. NOTED			
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NOTE BOOK NO.			

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	DRAWN MO	REVISED
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

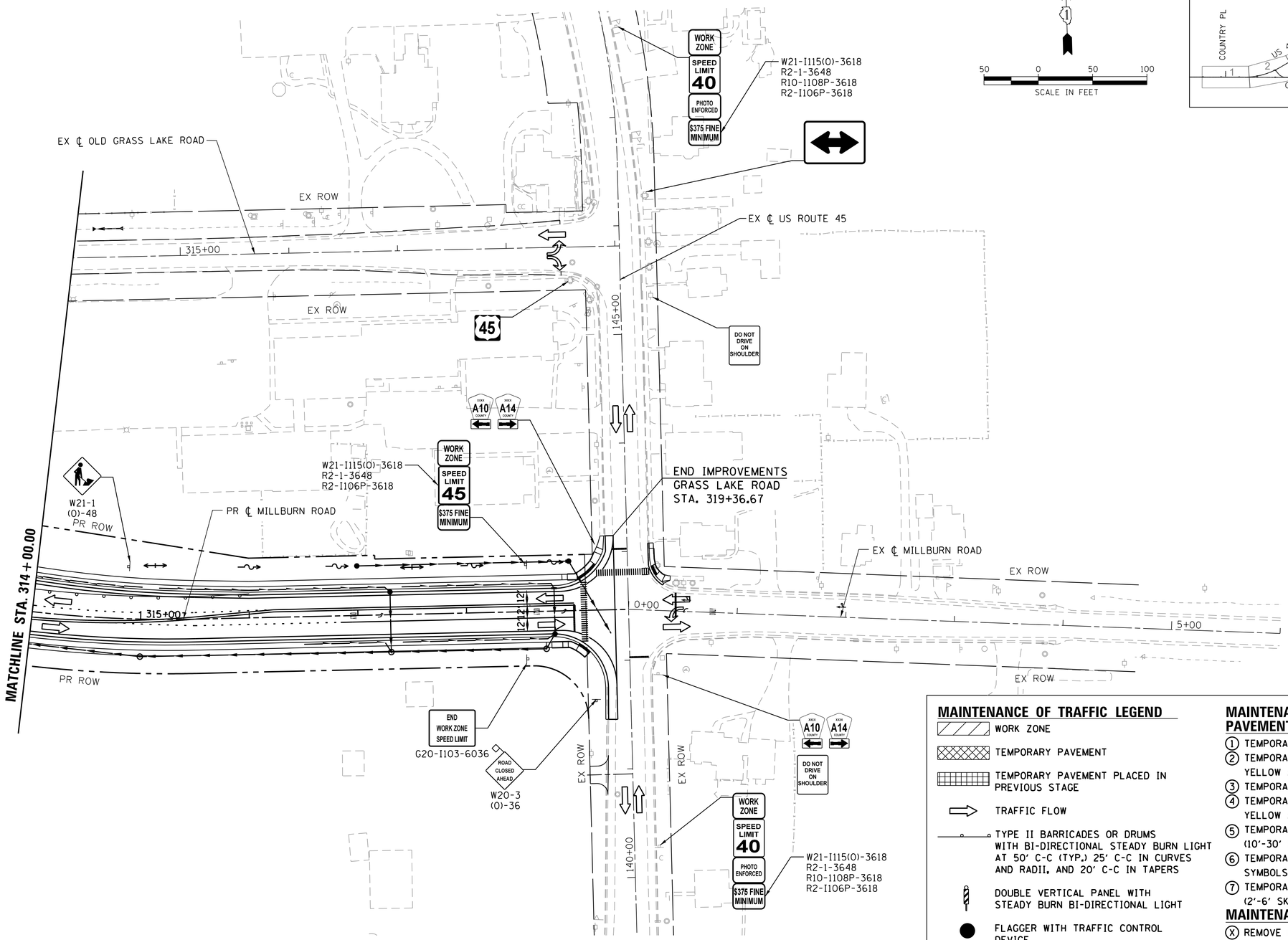
MAINTENANCE OF TRAFFIC
STAGE 3

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

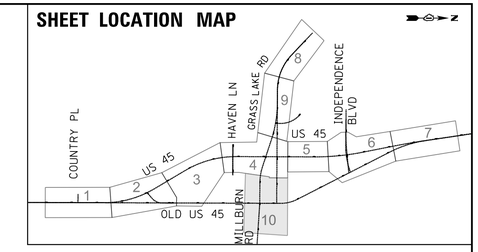
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	118

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
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5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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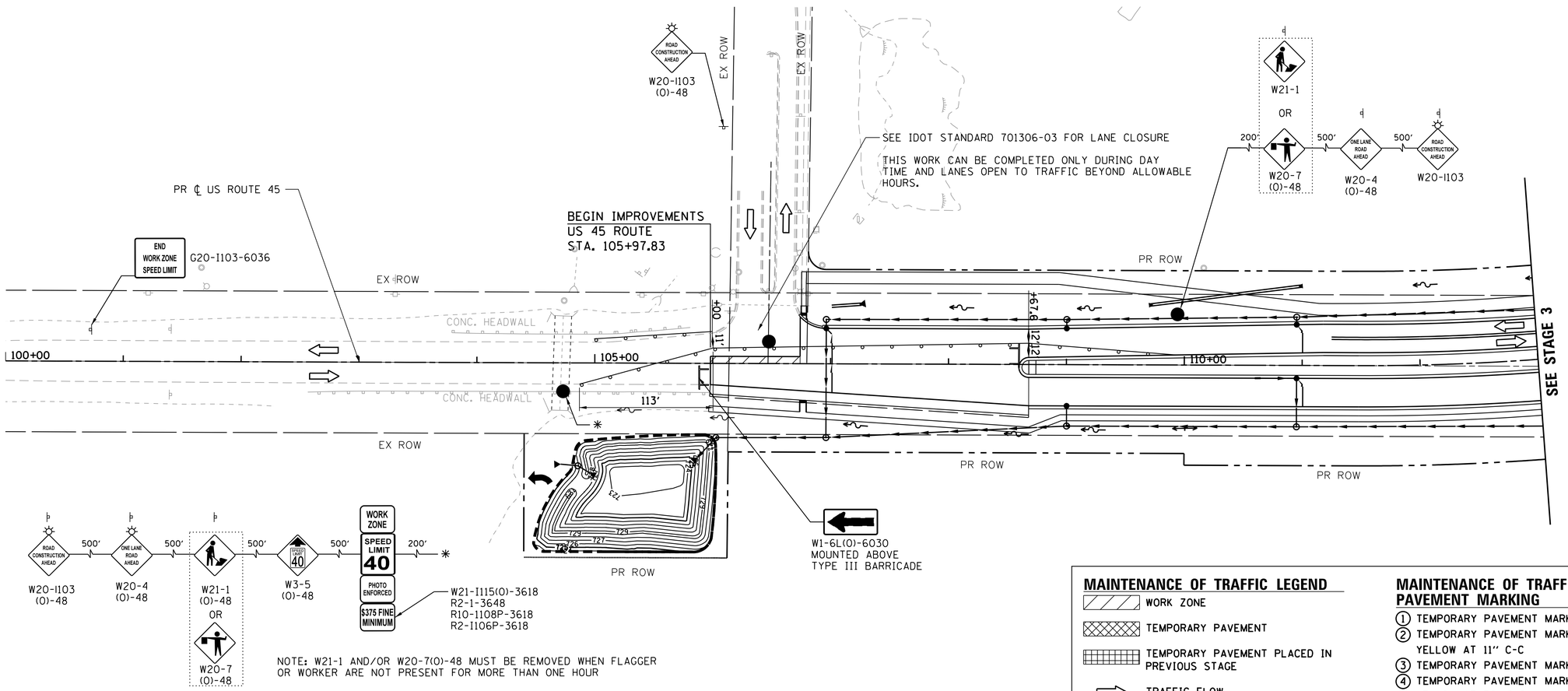
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

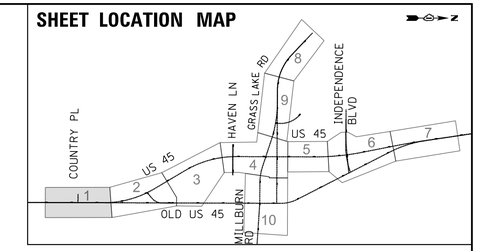
MAINTENANCE OF TRAFFIC STAGE 3

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	119
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		



NOTE: W21-1 AND/OR W20-7(O)-48 MUST BE REMOVED WHEN FLAGGER OR WORKER ARE NOT PRESENT FOR MORE THAN ONE HOUR



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN MO	REVISED	
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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 4A

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	120

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

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B.M. NOTED
STRUCTURE NOTATNS CHKD
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DATE

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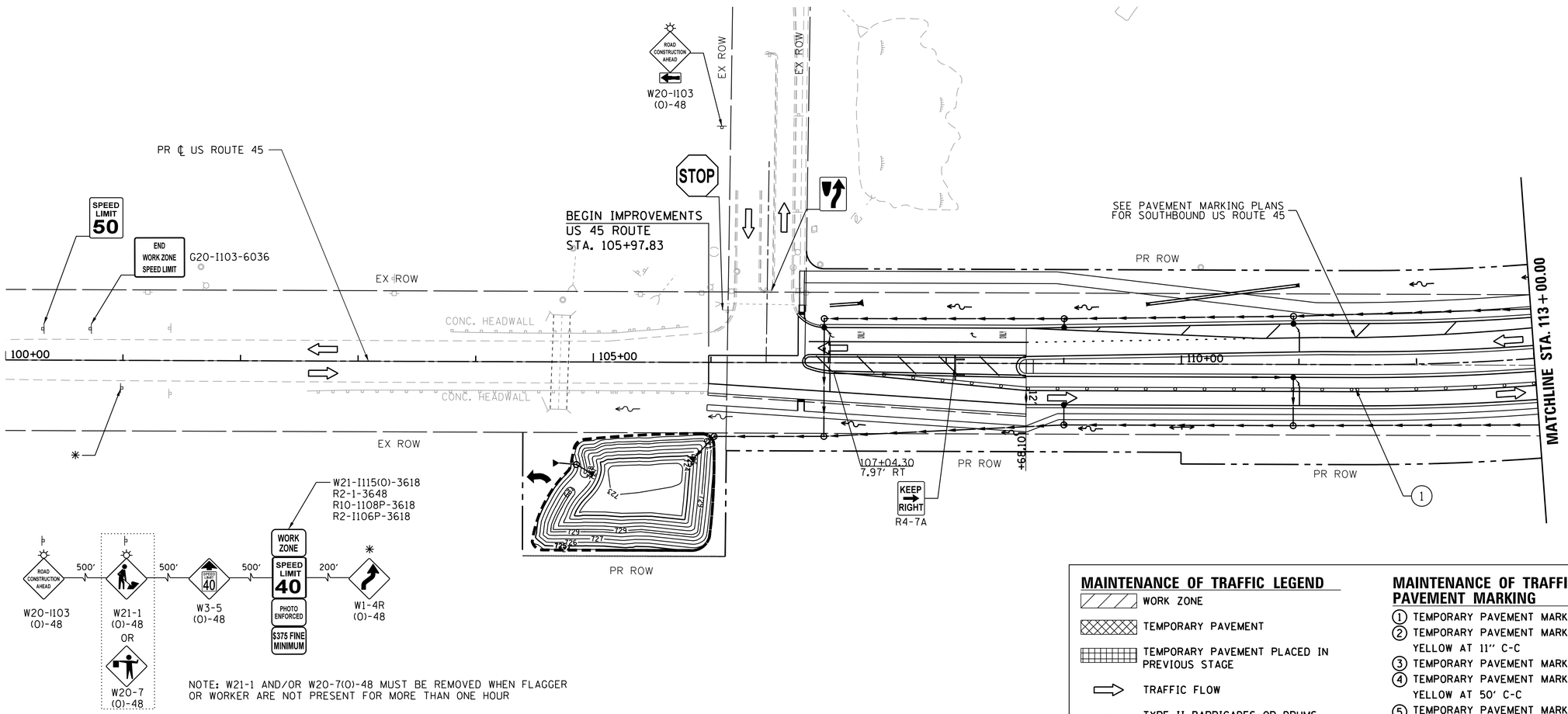

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
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MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

USER NAME = 35361	DESIGNED MO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	121

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

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CADD FILE NAME
NOTE BOOK
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PROFILE
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PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
NOTE BOOK
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MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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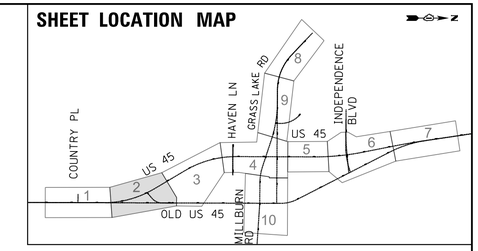
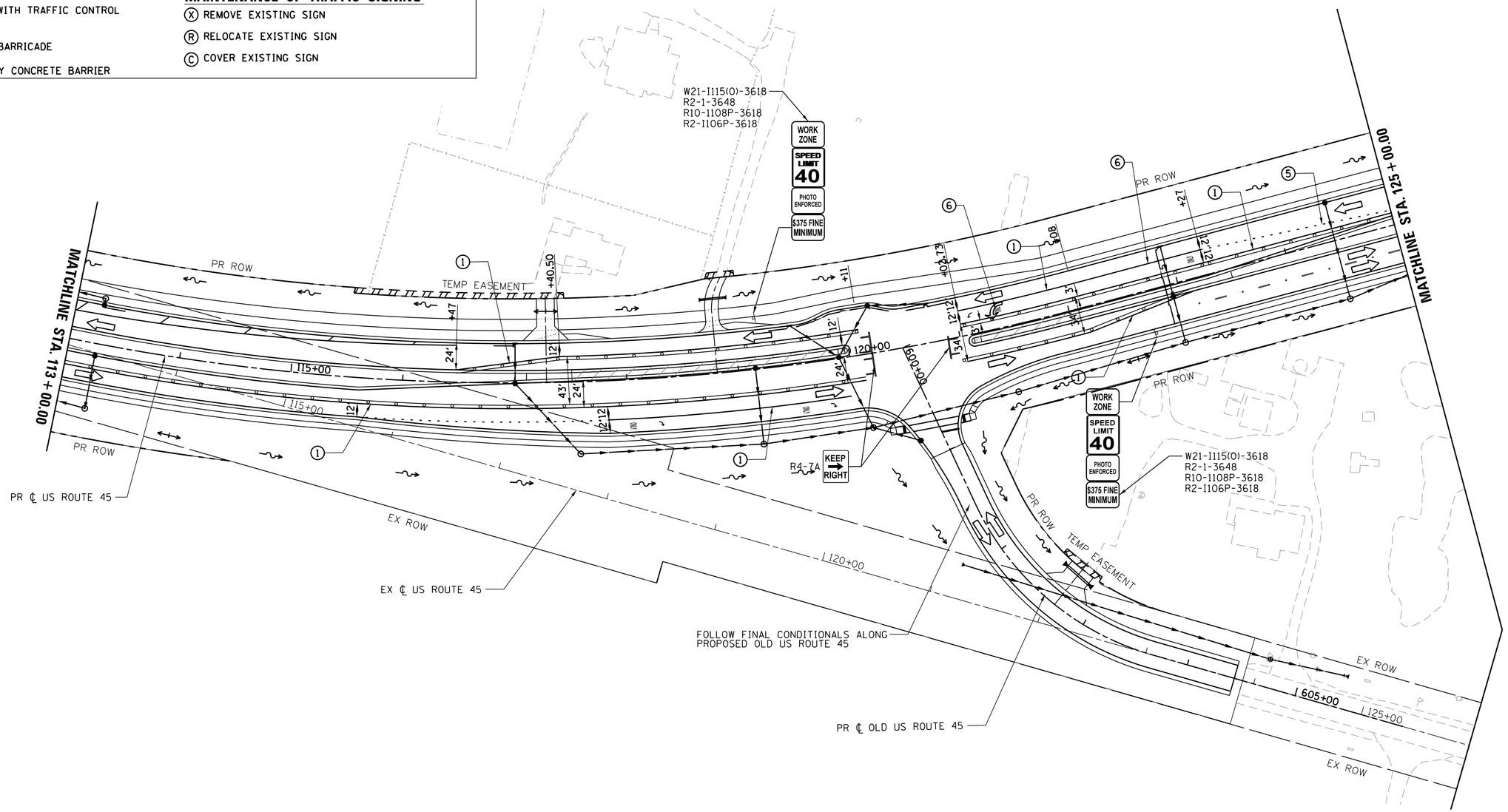
MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

SCALE IN FEET: 50 0 50 100

SHEET LOCATION MAP





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	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC STAGE 4

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 113+00 TO STA.125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	122

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

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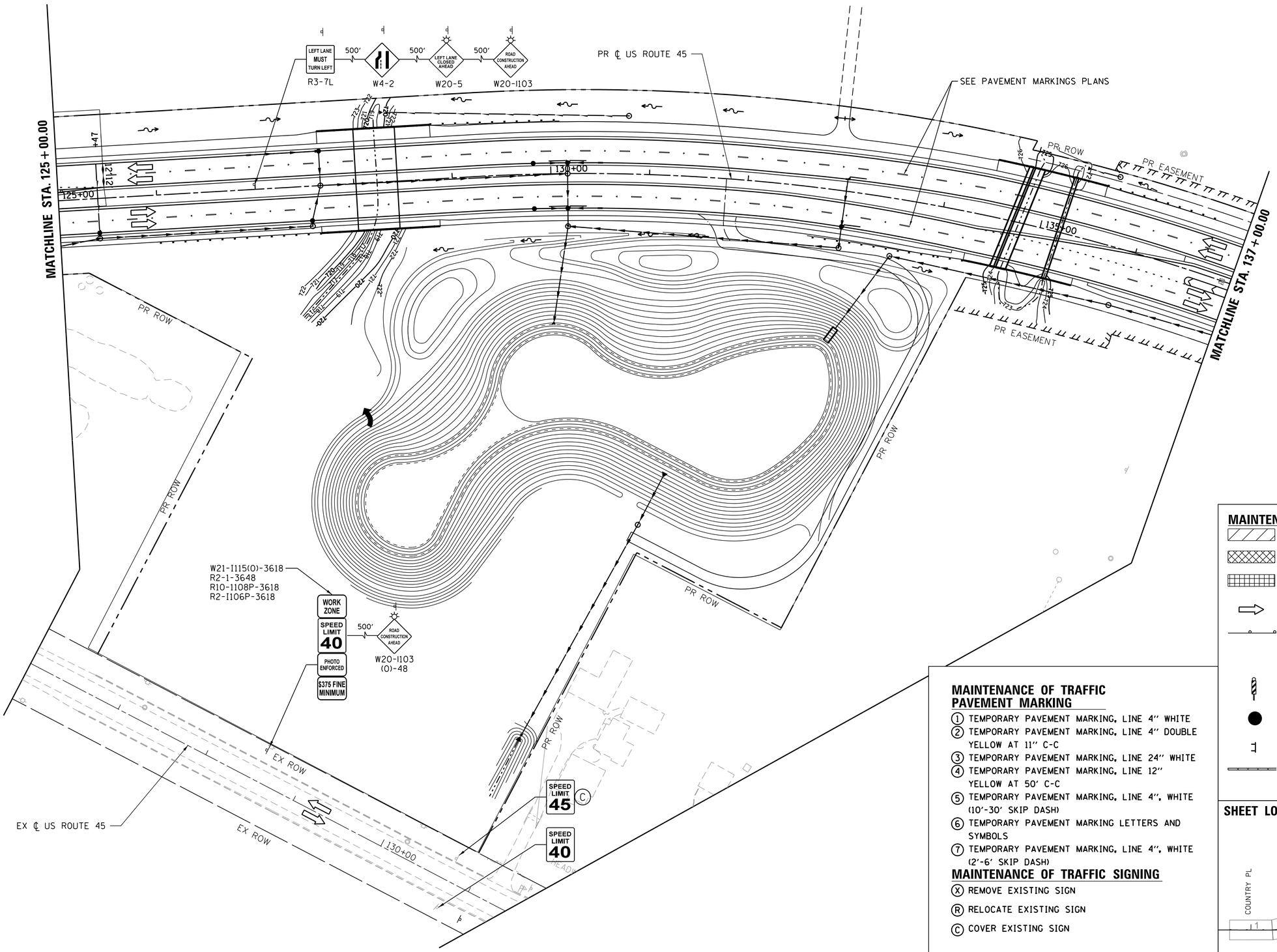


MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

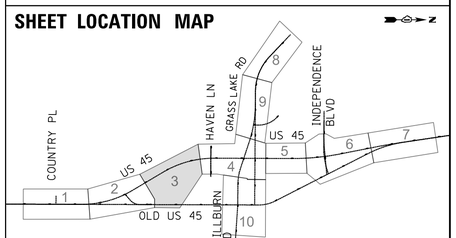
MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

SHEET LOCATION MAP



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	PLOTTED		
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	RT. OF WAY CHECKED		
NOTE BOOK	BLM. NOTED		
NO.	STRUCTURE NOTATNS CHKD		

PLAN	SURVEYED	BY	DATE
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	DRAWN MO	REVISED
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED

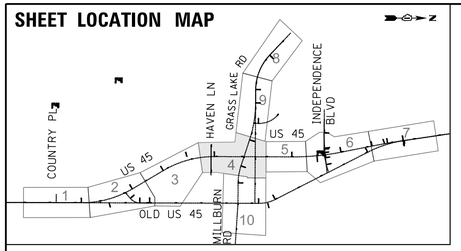
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	123
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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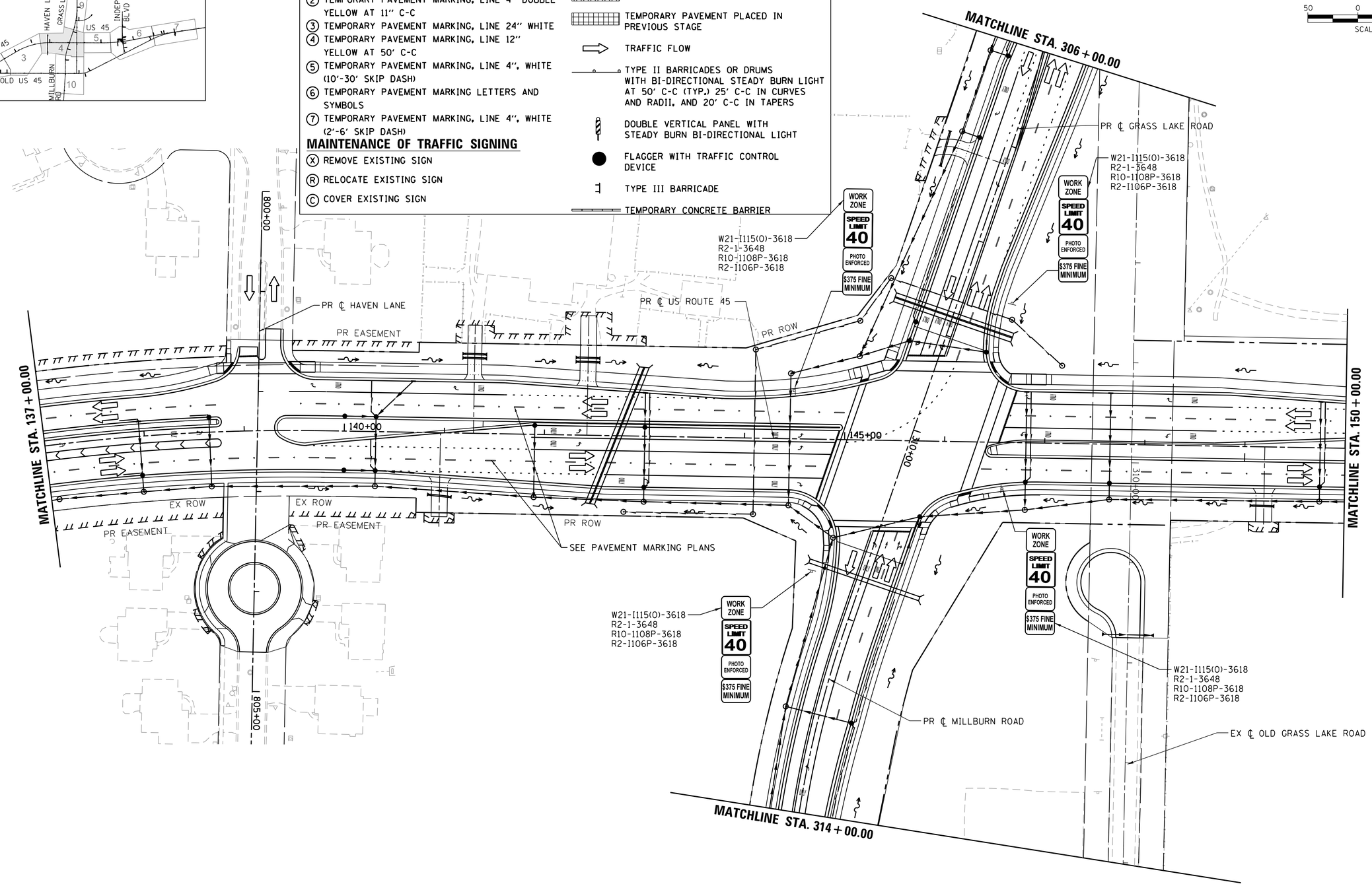
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER



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NOTE BOOK NO.		

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SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CHKD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

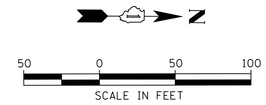
MAINTENANCE OF TRAFFIC
STAGE 4

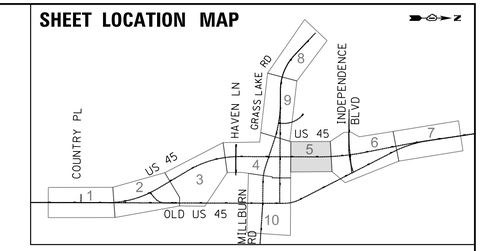
SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

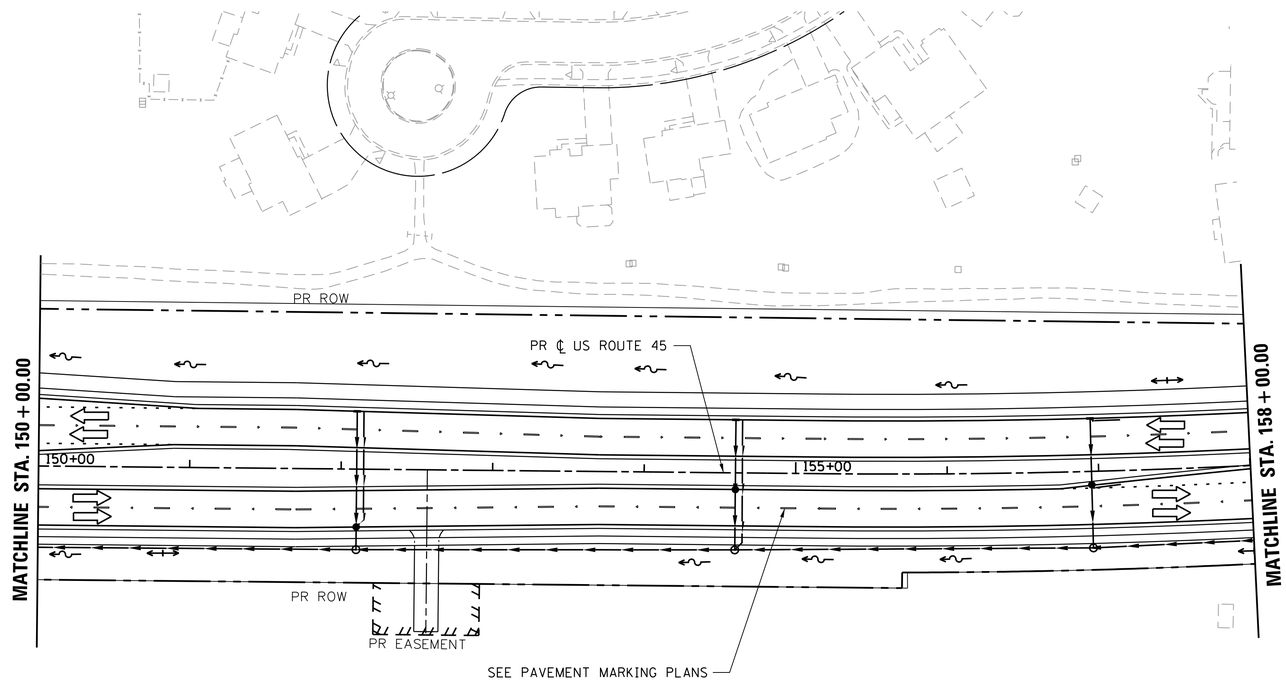
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	124

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT







MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
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PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

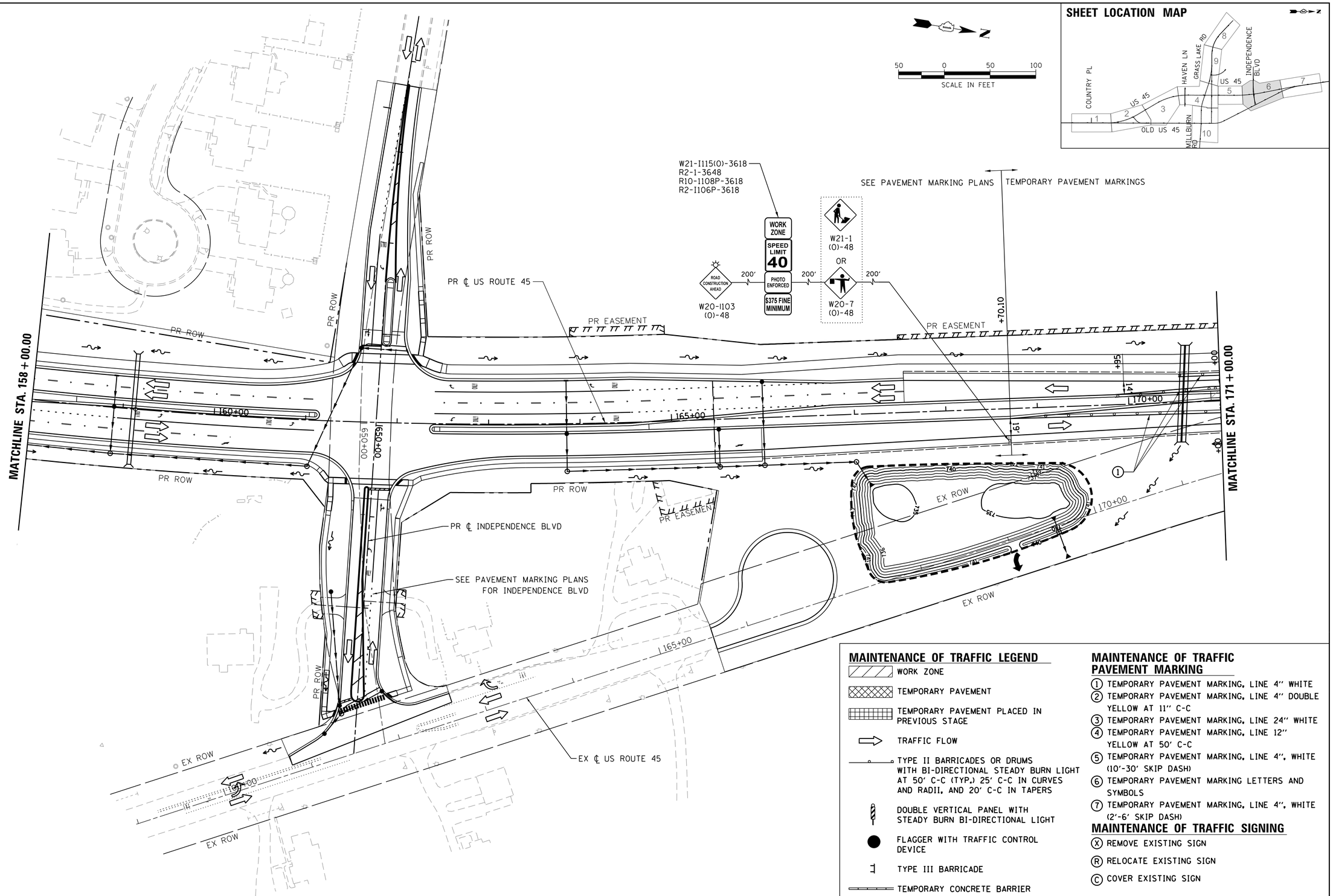
MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	125

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

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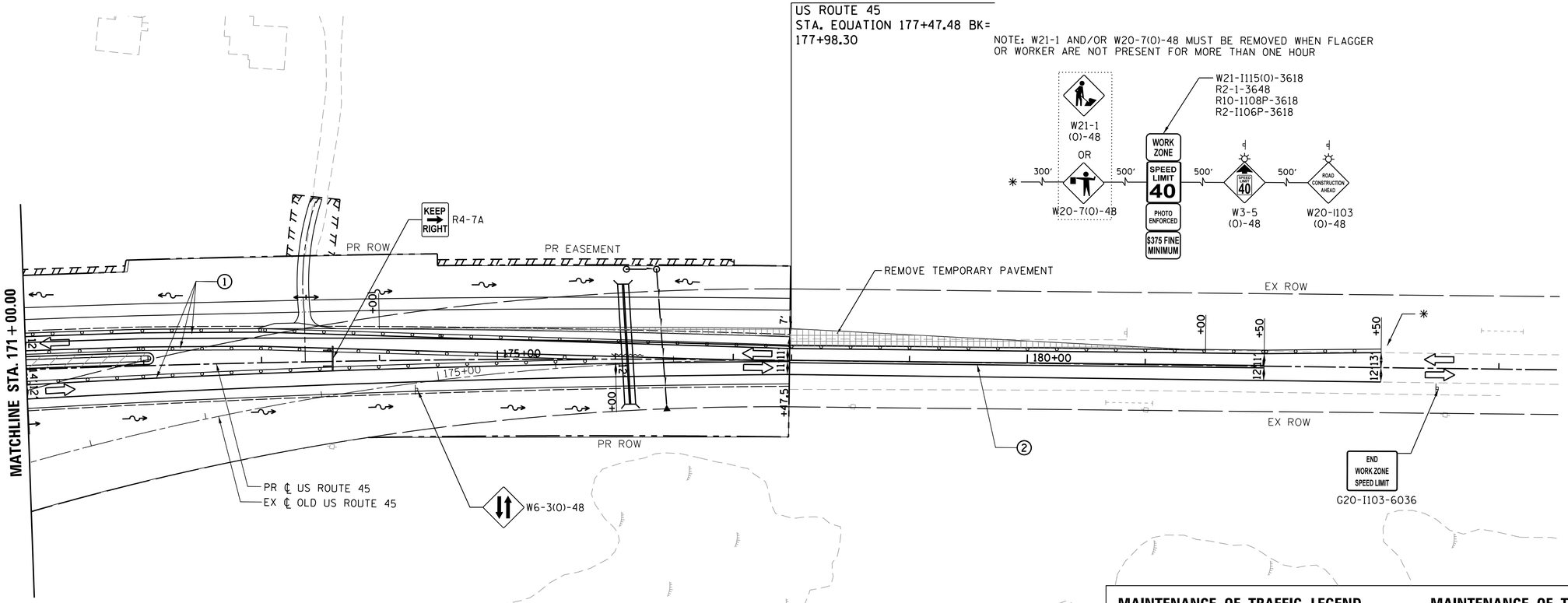
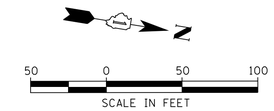
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

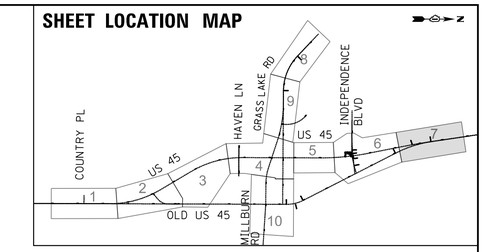
MAINTENANCE OF TRAFFIC STAGE 4

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA.171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	126
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		







MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

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	DRAWN MO	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED FZ	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA. 178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	127

CONTRACT NO. 60T75

ILLINOIS | FED. AID PROJECT

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CH'KD — NOTE BOOK NO. — BY — DATE

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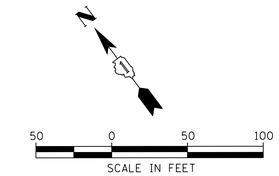

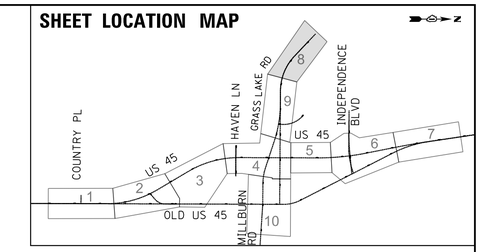

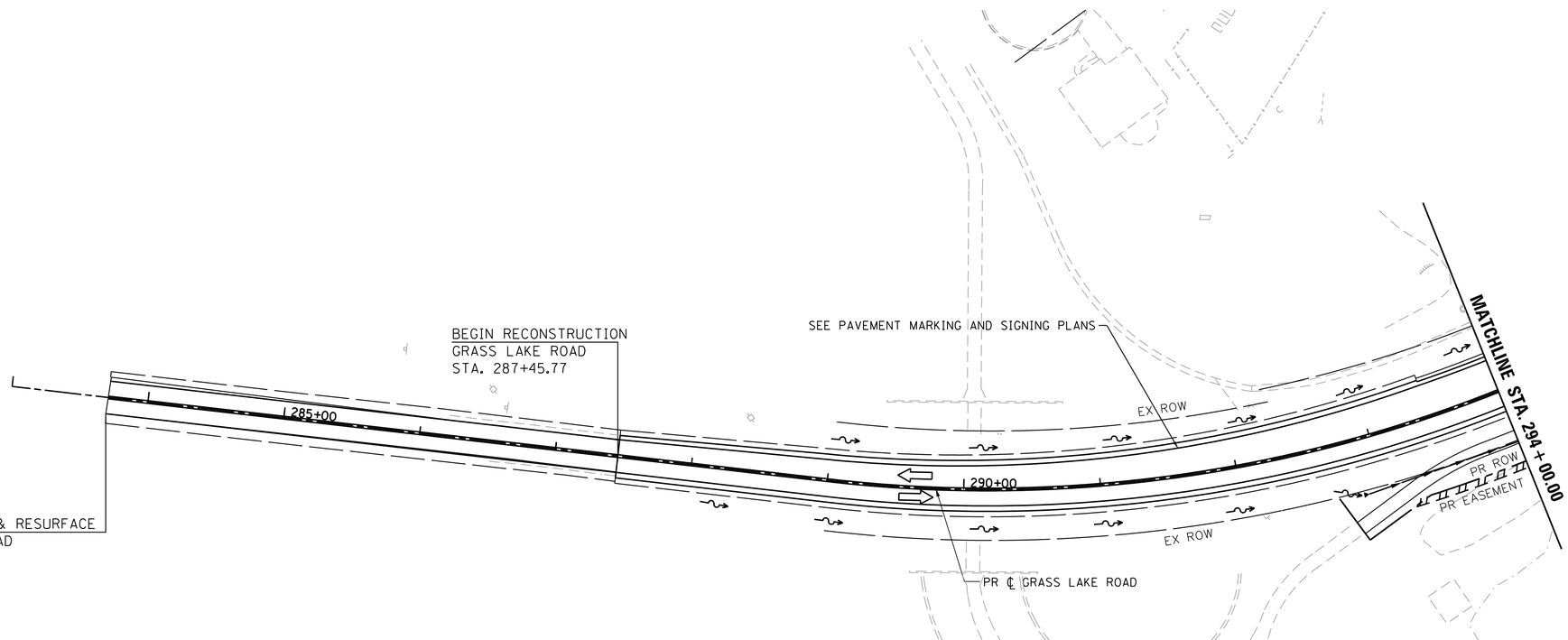

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
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MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
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- (C) COVER EXISTING SIGN

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
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GRADES CHECKED		
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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	128

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
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6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

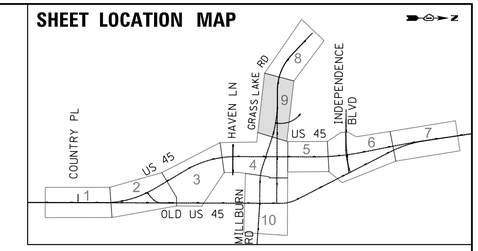
- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

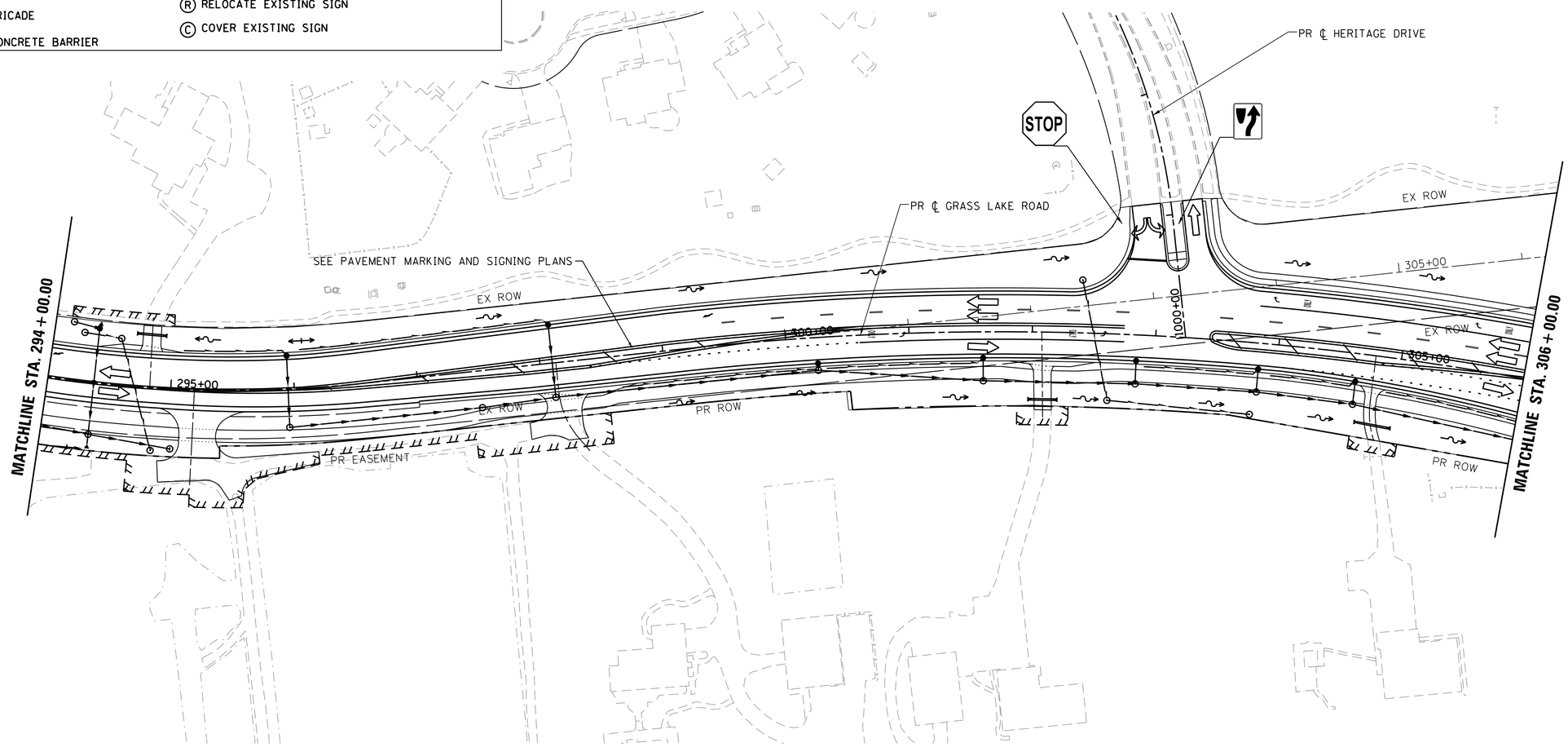
NO MAINTENANCE OF TRAFFIC ON THIS SHEET

N

SCALE IN FEET: 50 0 50 100

SHEET LOCATION MAP





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RT. OF WAY CHECKED		
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NOTE BOOK NO.		

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BKM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 4

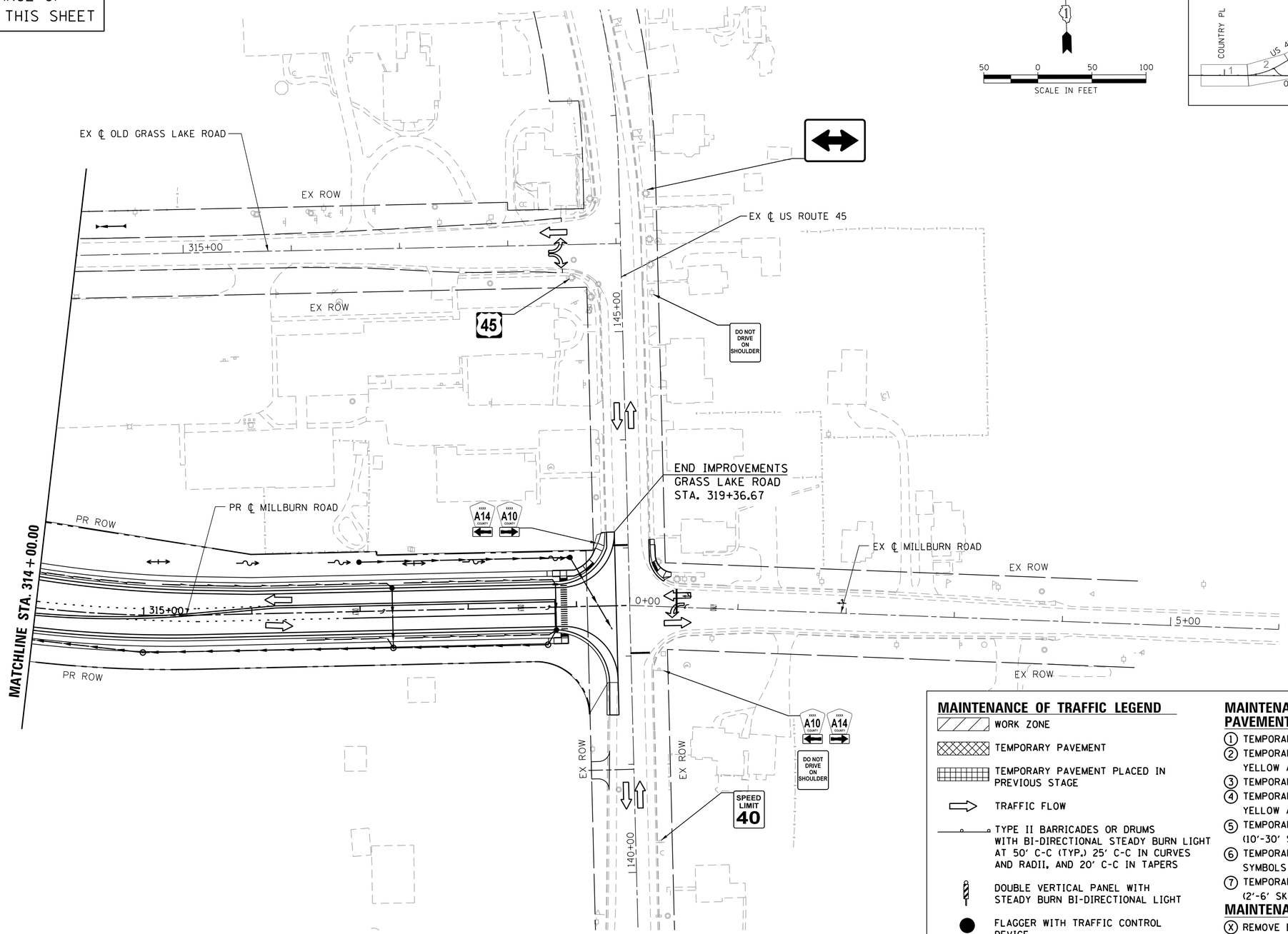
SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	129

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

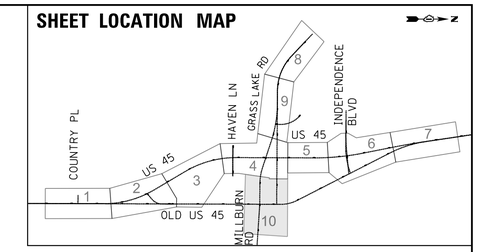
NO MAINTENANCE OF TRAFFIC ON THIS SHEET



N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT PLACED IN PREVIOUS STAGE
- TRAFFIC FLOW
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURN LIGHT AT 50' C-C (TYP.) 25' C-C IN CURVES AND RADII, AND 20' C-C IN TAPERS
- DOUBLE VERTICAL PANEL WITH STEADY BURN BI-DIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL DEVICE
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC PAVEMENT MARKING

1. TEMPORARY PAVEMENT MARKING, LINE 4" WHITE
2. TEMPORARY PAVEMENT MARKING, LINE 4" DOUBLE YELLOW AT 11" C-C
3. TEMPORARY PAVEMENT MARKING, LINE 24" WHITE
4. TEMPORARY PAVEMENT MARKING, LINE 12" YELLOW AT 50' C-C
5. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (10'-30' SKIP DASH)
6. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
7. TEMPORARY PAVEMENT MARKING, LINE 4", WHITE (2'-6' SKIP DASH)

MAINTENANCE OF TRAFFIC SIGNING

- (X) REMOVE EXISTING SIGN
- (R) RELOCATE EXISTING SIGN
- (C) COVER EXISTING SIGN

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NOTE BOOK		
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PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 4

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

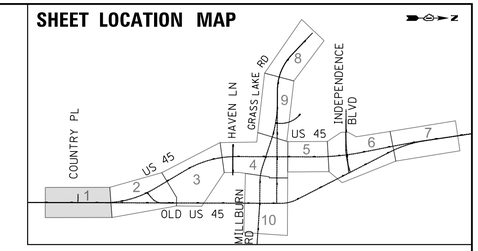
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	130
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

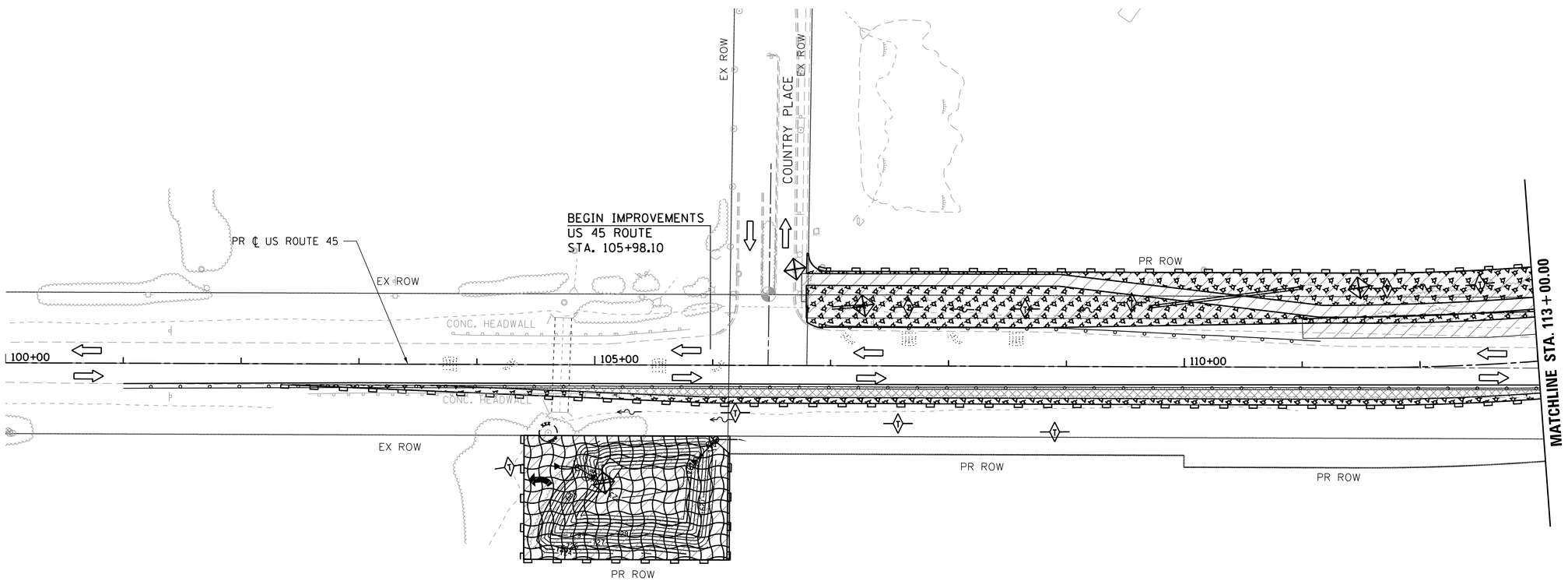
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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NOTE BOOK NO.		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	131

CONTRACT NO. 60T75

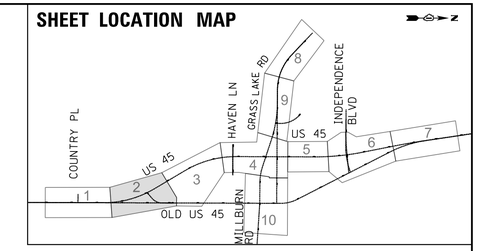
ILLINOIS FED. AID PROJECT

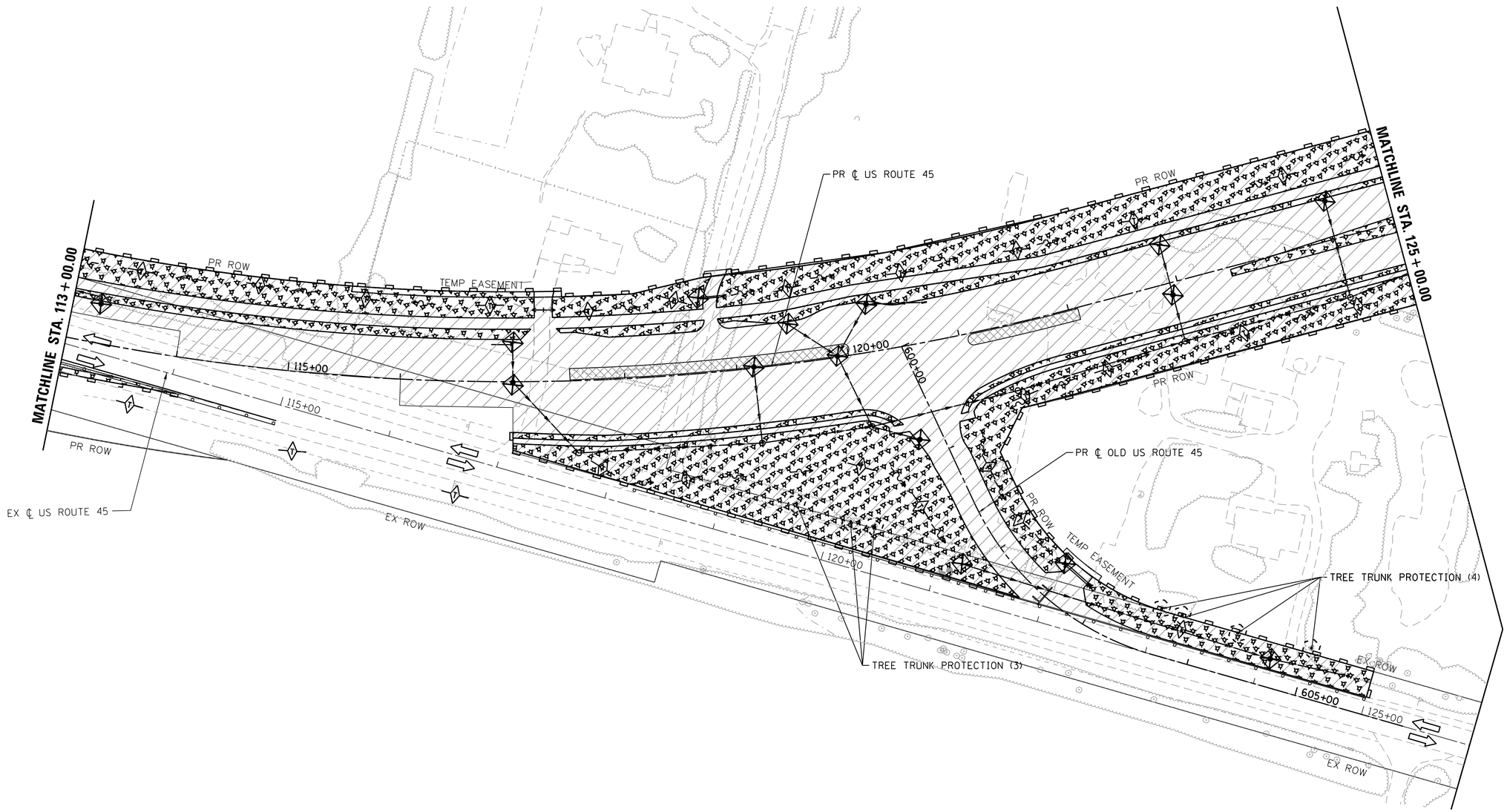
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 113+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	132
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

PLAN	BY	DATE
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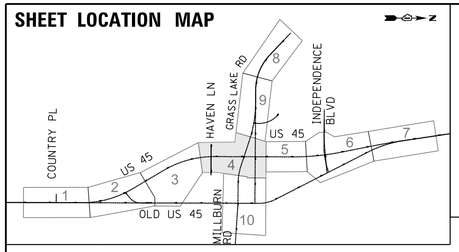
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	133
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

SHEET LOCATION MAP



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx — xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

SCALE IN FEET: 50 0 50 100

MATCHLINE STA. 306 + 00.00

TREE TRUNK PROTECTION

PR ℄ GRASS LAKE ROAD

PR ℄ HAVEN LANE

800+00

TREE TRUNK PROTECTION (6)

PR ℄ US ROUTE 45

PR EASEMENT

PR ROW

MATCHLINE STA. 137 + 00.00

140+00

145+00

304+00

310+00

MATCHLINE STA. 150 + 00.00

PR EASEMENT

PR EASEMENT

PR ROW

EX ℄ OLD GRASS LAKE ROAD

PR ℄ MILLBURN ROAD

805+00

MATCHLINE STA. 314 + 00.00

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA.150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	134

CONTRACT NO. 60T75

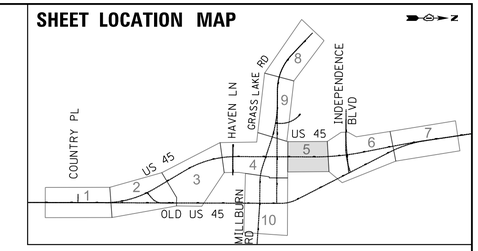
ILLINOIS FED. AID PROJECT

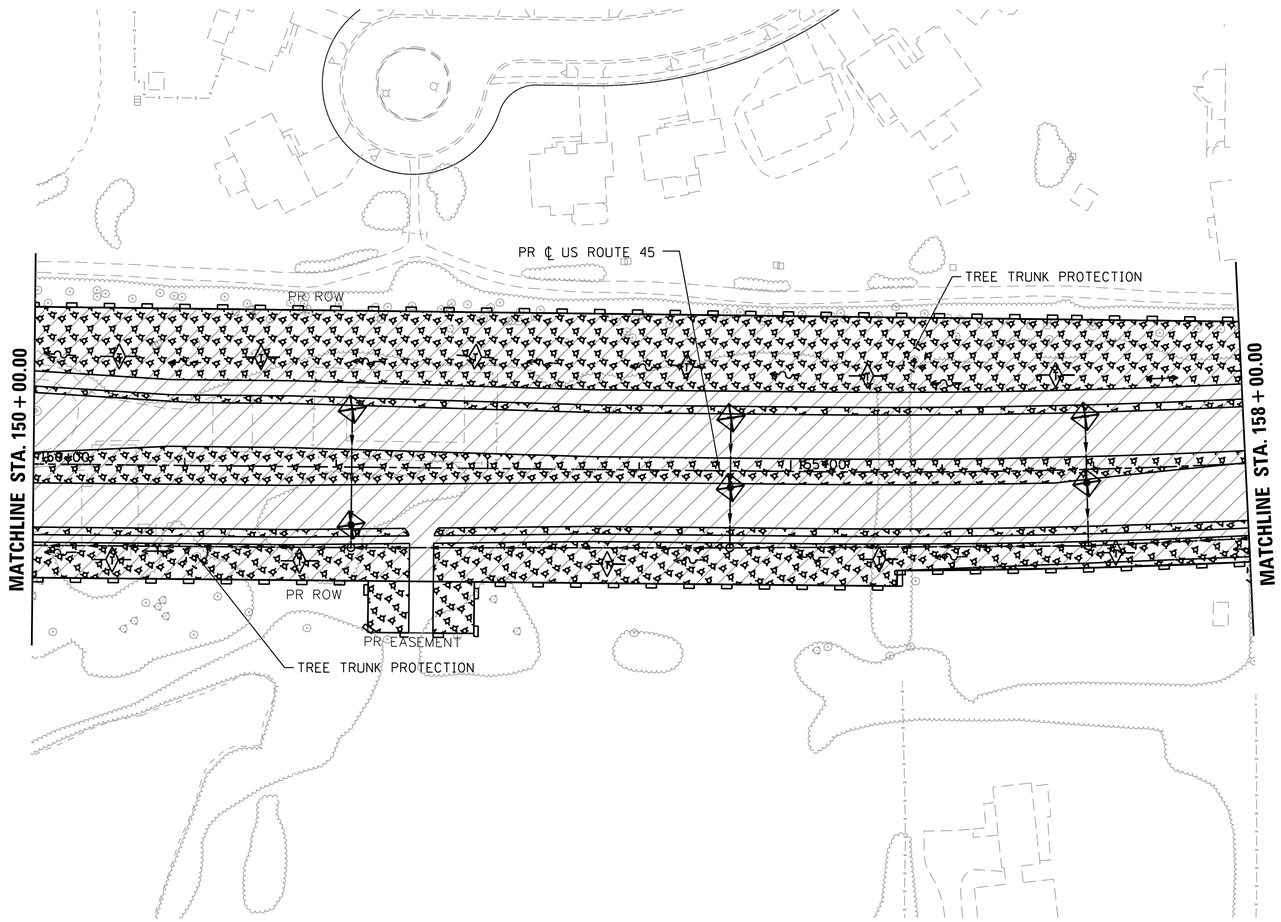
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

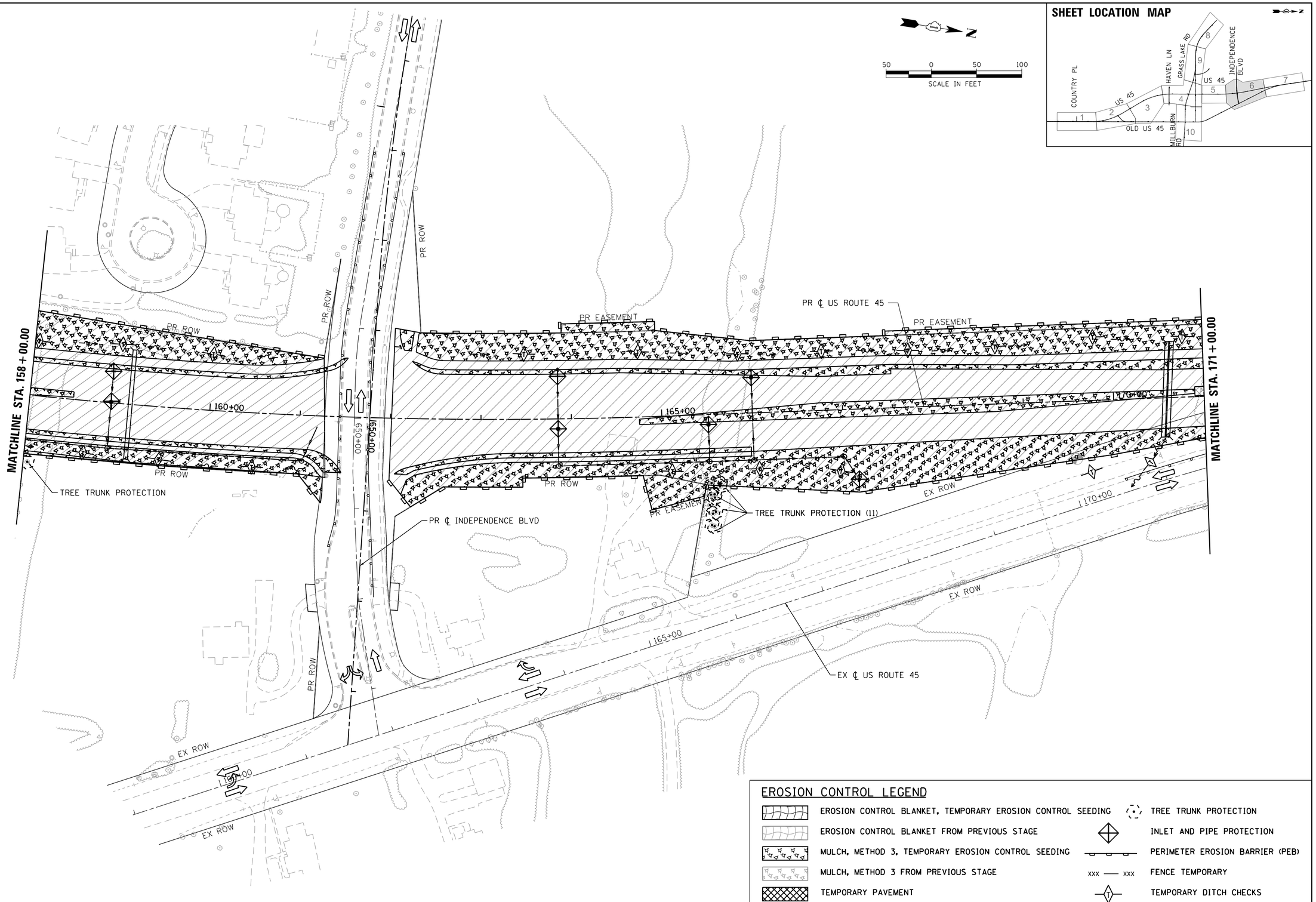
EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	135

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA.171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	136

CONTRACT NO. 60T75

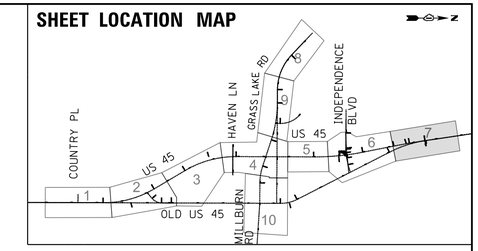
ILLINOIS FED. AID PROJECT

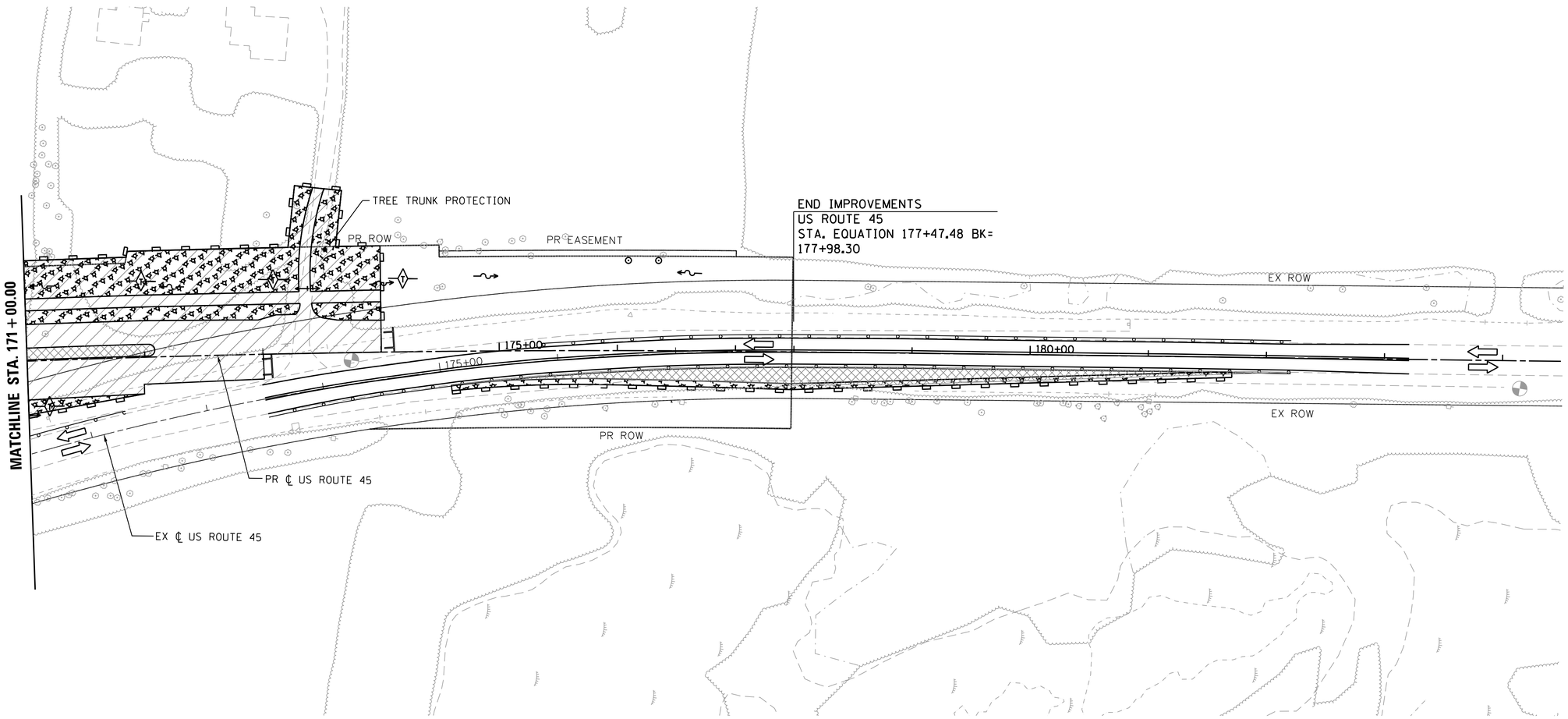
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
US ROUTE 45

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA. 178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	137

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

EROSION CONTROL LEGEND

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- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

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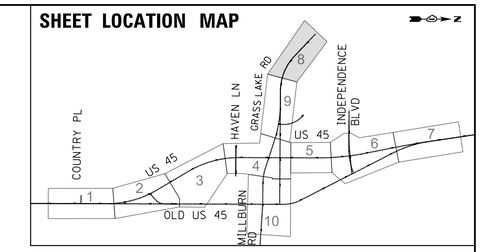
SCALE IN FEET

SHEET LOCATION MAP



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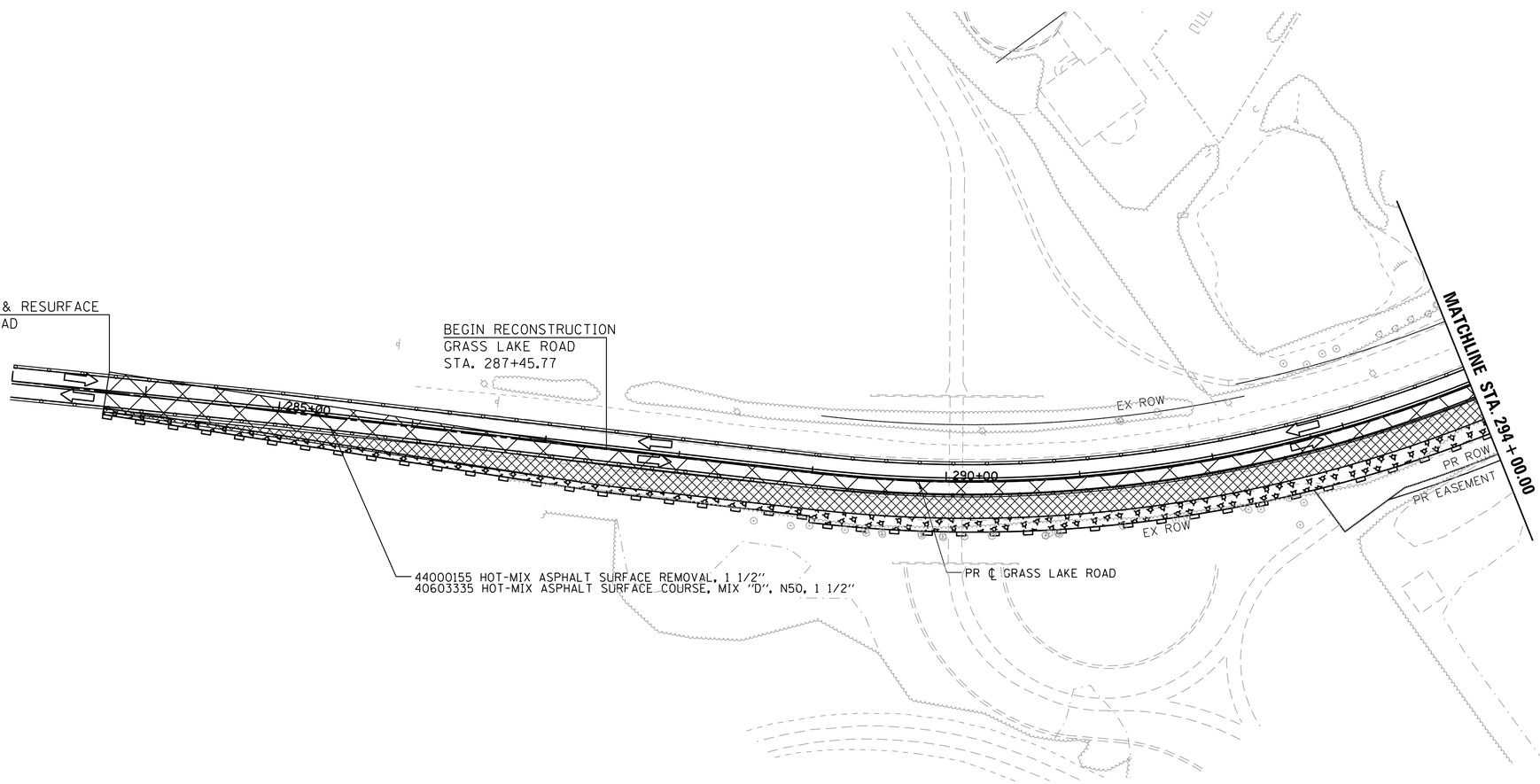

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	138

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
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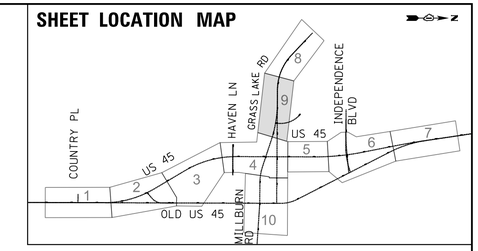
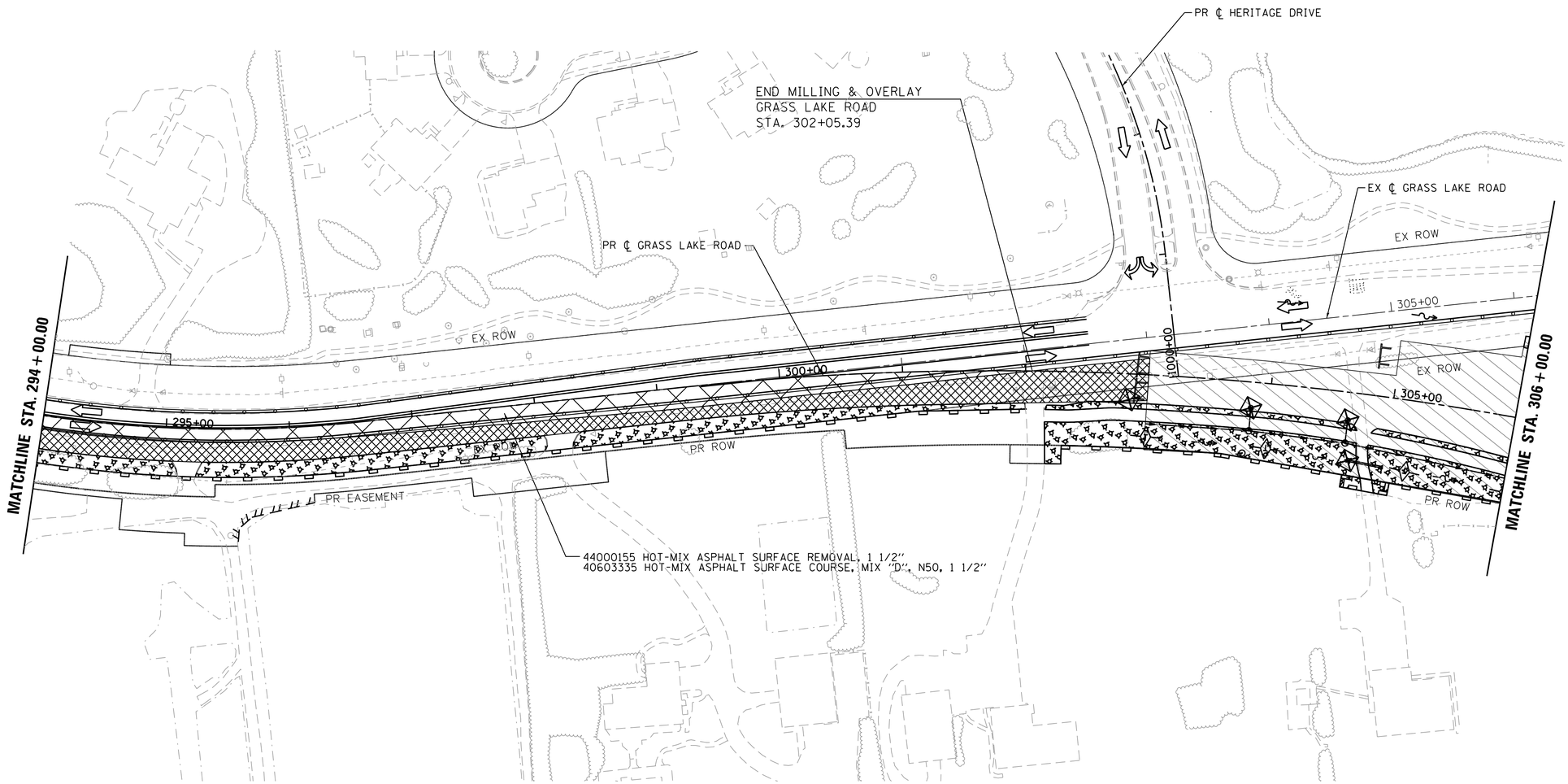
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	139

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

EROSION CONTROL LEGEND

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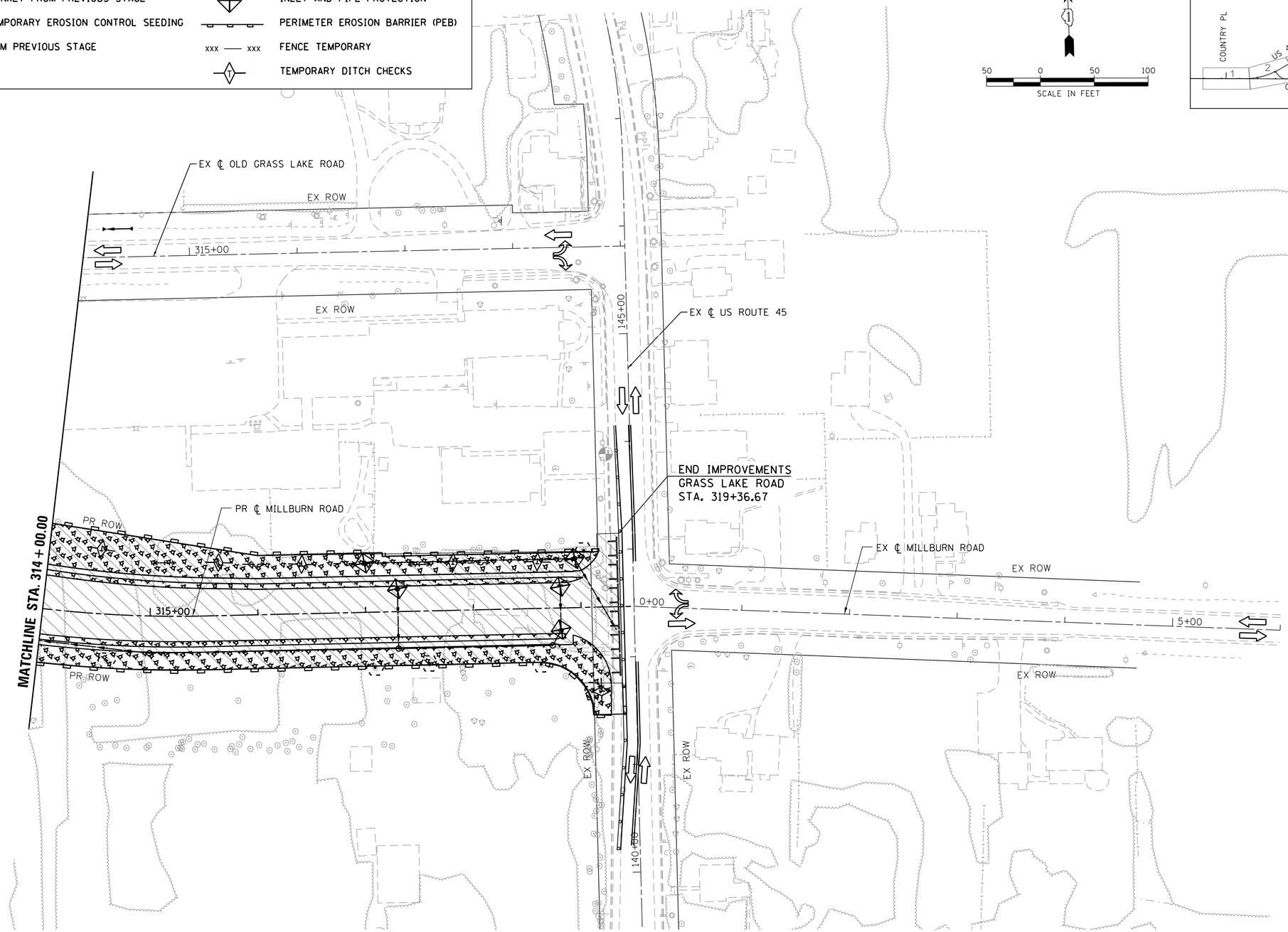
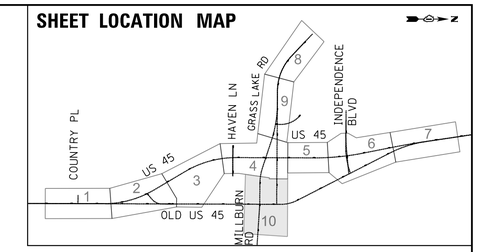
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS





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NOTE BOOK NO.		

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PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 1
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	140

CONTRACT NO. 60T75

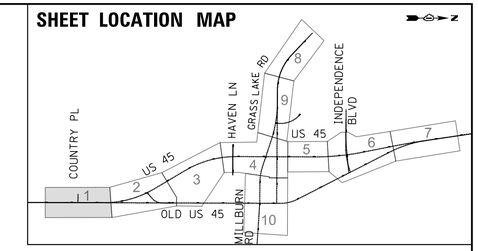
ILLINOIS FED. AID PROJECT

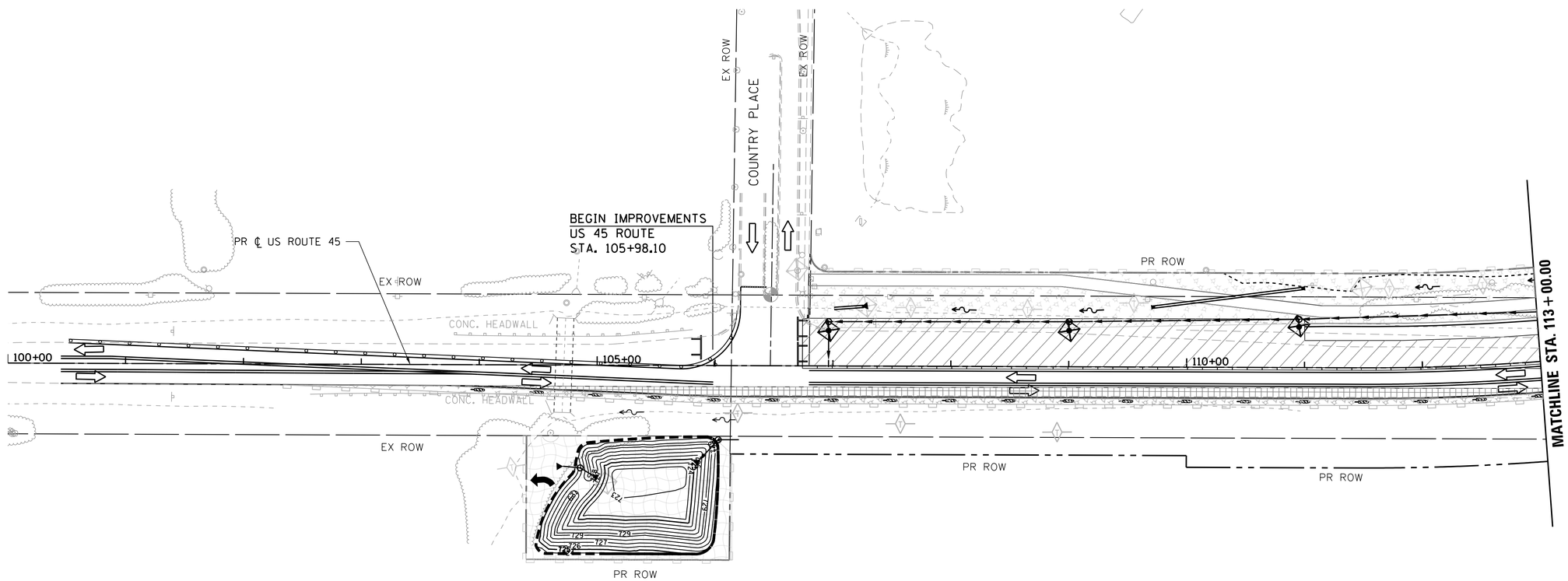
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
US ROUTE 45

SCALE: 1"=50' | SHEET 1 OF 8 SHEETS | STA. 100+00 TO STA. 113+00

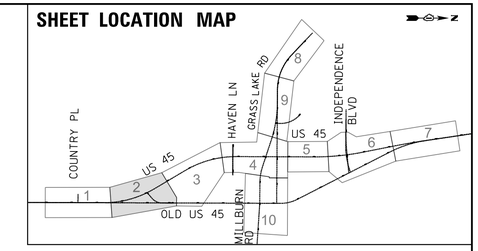
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	141
		CONTRACT NO. 60T75		
	ILLINOIS	FED. AID PROJECT		

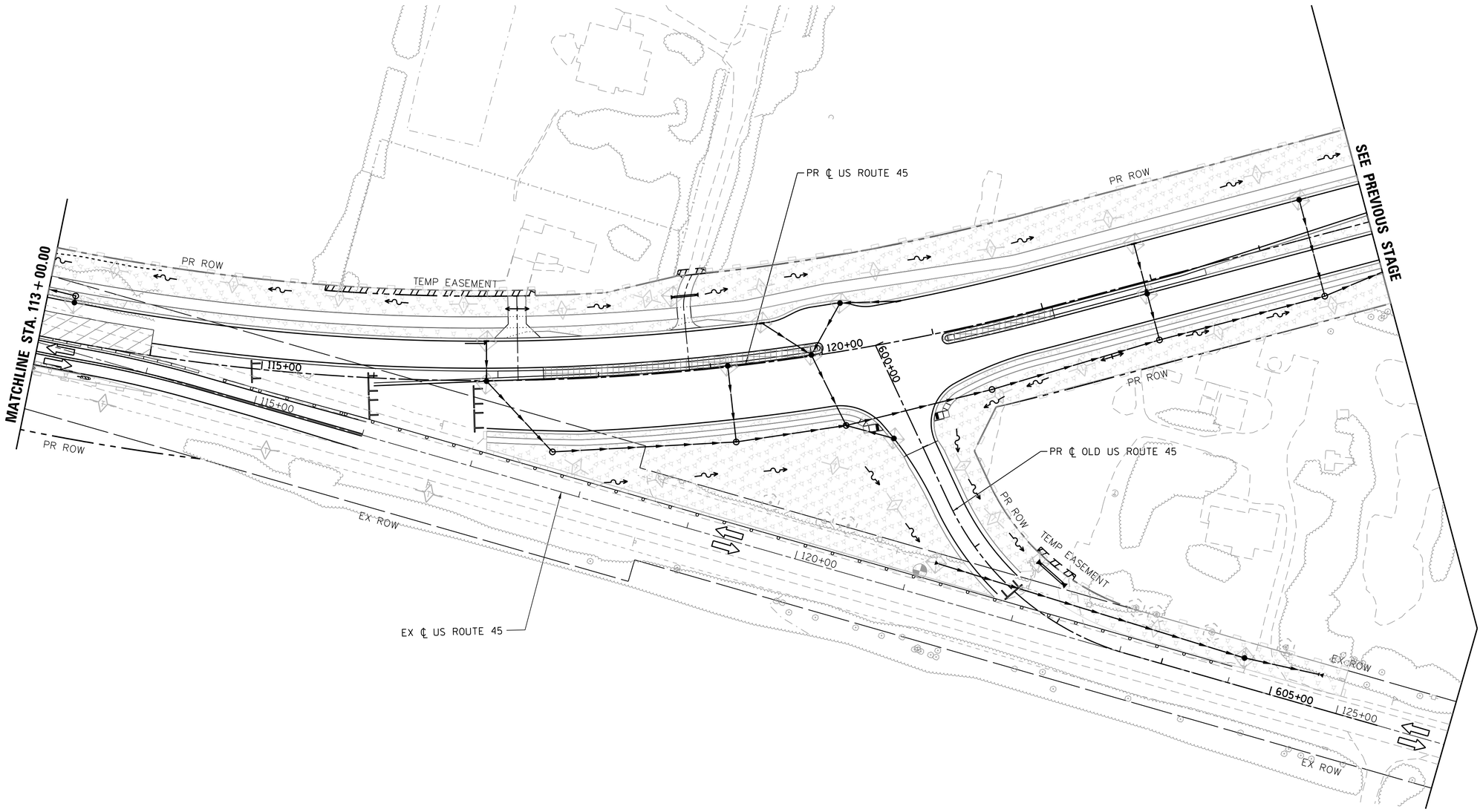
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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RT. OF WAY CHECKED		
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NOTE BOOK NO.		

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B.M. NOTED		
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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
US ROUTE 45

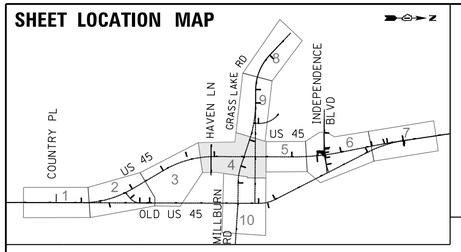
SCALE: 1"=50' | SHEET 2 OF 8 SHEETS | STA. 113+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	142

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx — xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

SCALE IN FEET: 50 0 50 100

MATCHLINE STA. 306 + 00.00

PR ℄ GRASS LAKE ROAD

PR ℄ HAVEN LANE

PR ℄ US ROUTE 45

PR EASEMENT

PR ROW

800+00

140+00

145+00

310+00

310-L

SEE PREVIOUS STAGE

EX ROW

PR EASEMENT

EX ROW

PR EASEMENT

PR ROW

TREE TRUNK PROTECTION (5)

TREE TRUNK PROTECTION (2)

EX ℄ OLD GRASS LAKE ROAD

PR ℄ MILLBURN RD

805+00

MATCHLINE STA. 314 + 00.00

PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED		
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PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED		
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PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

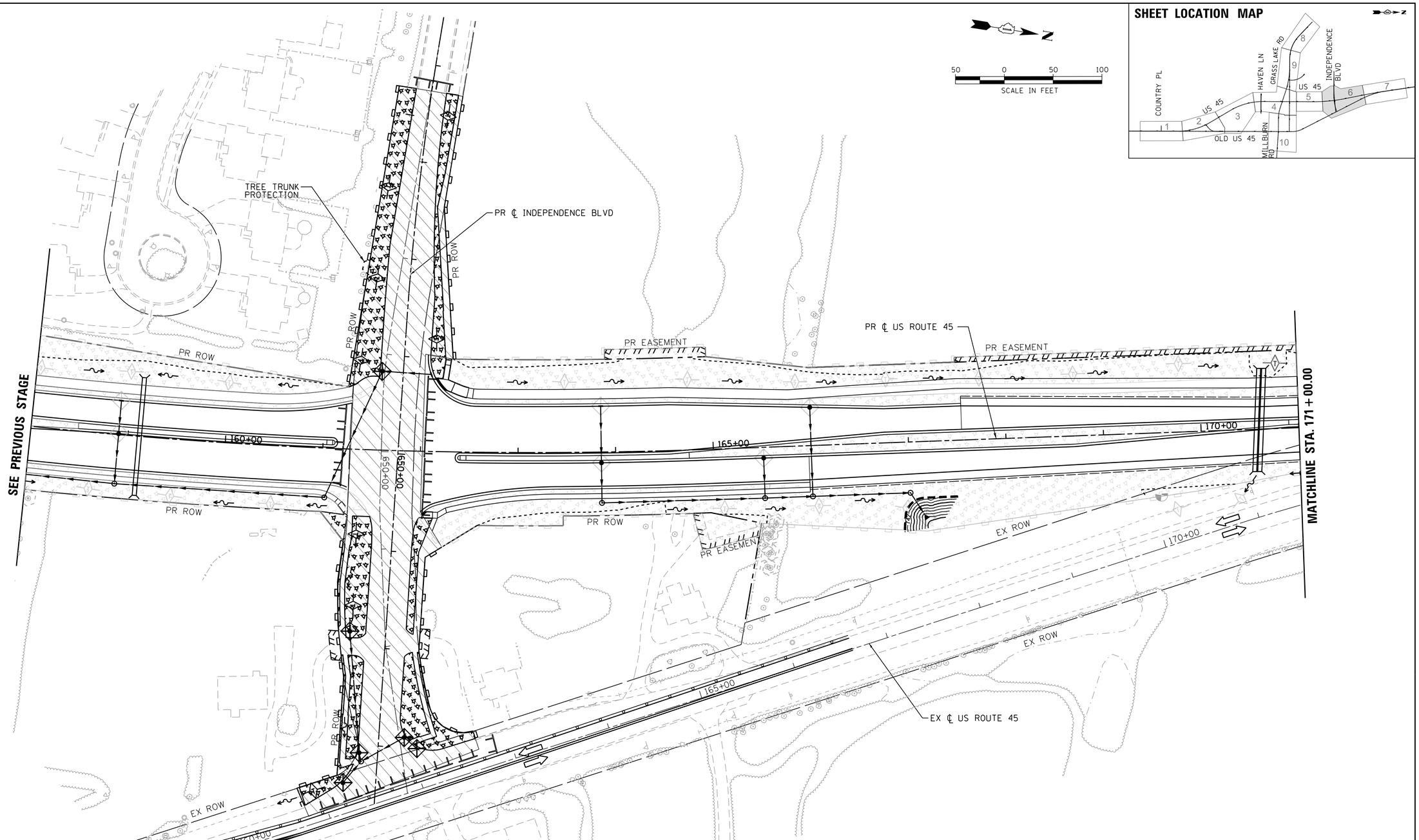
EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 8 SHEETS | STA. 137+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	143

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

PLAN	BY	DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
US ROUTE 45

SCALE: 1"=50' | SHEET 6 OF 8 SHEETS | STA. 158+00 TO STA.171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	144
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

EROSION CONTROL LEGEND

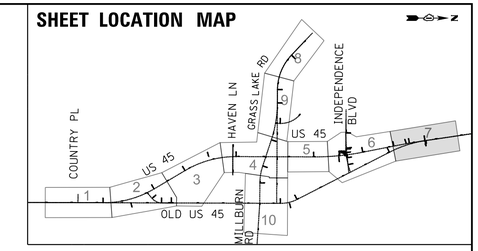
- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

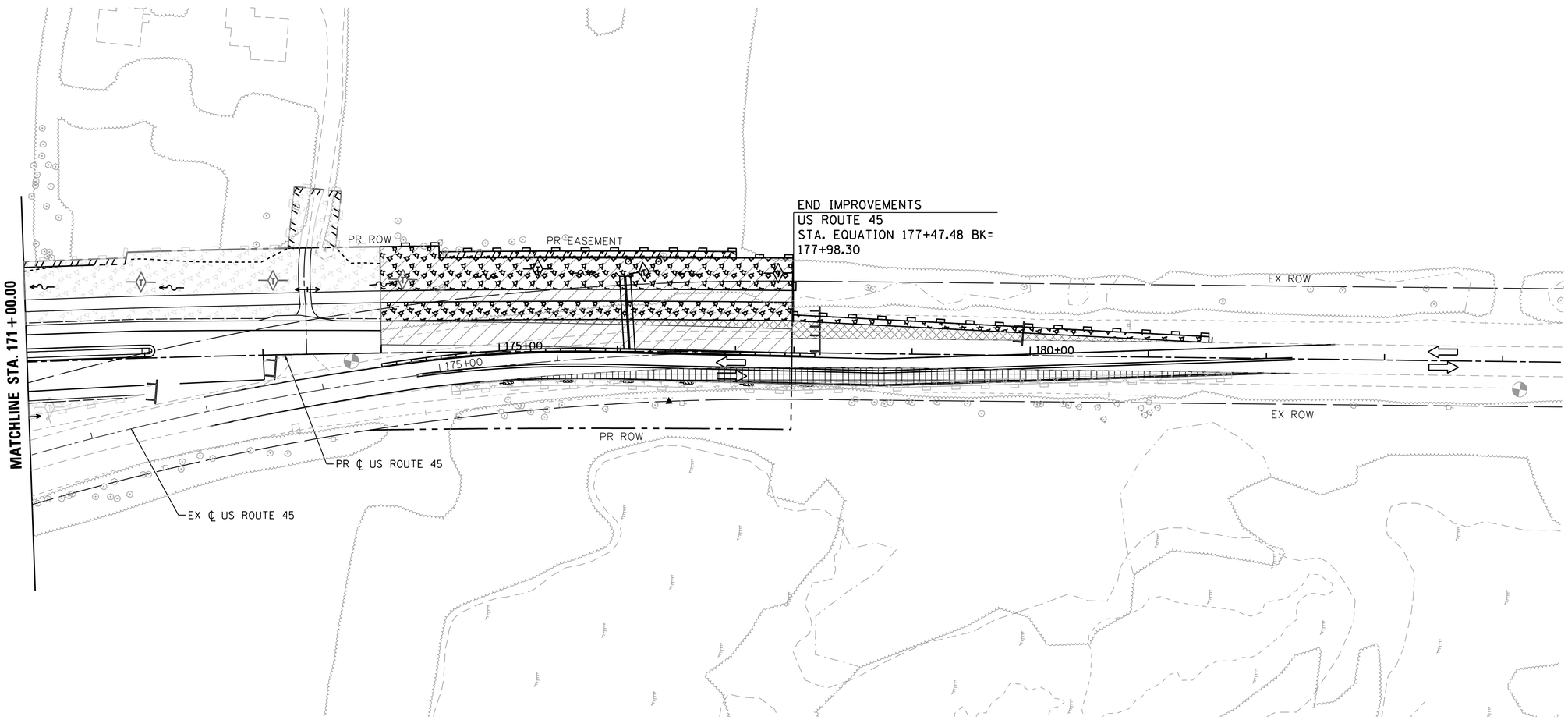
N

50 0 50 100

SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
US ROUTE 45

SCALE: 1"=50' | SHEET 7 OF 8 SHEETS | STA. 171+00 TO STA.178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	145
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

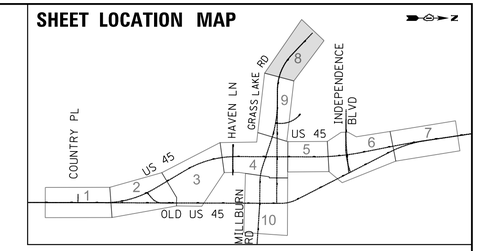
EROSION CONTROL LEGEND

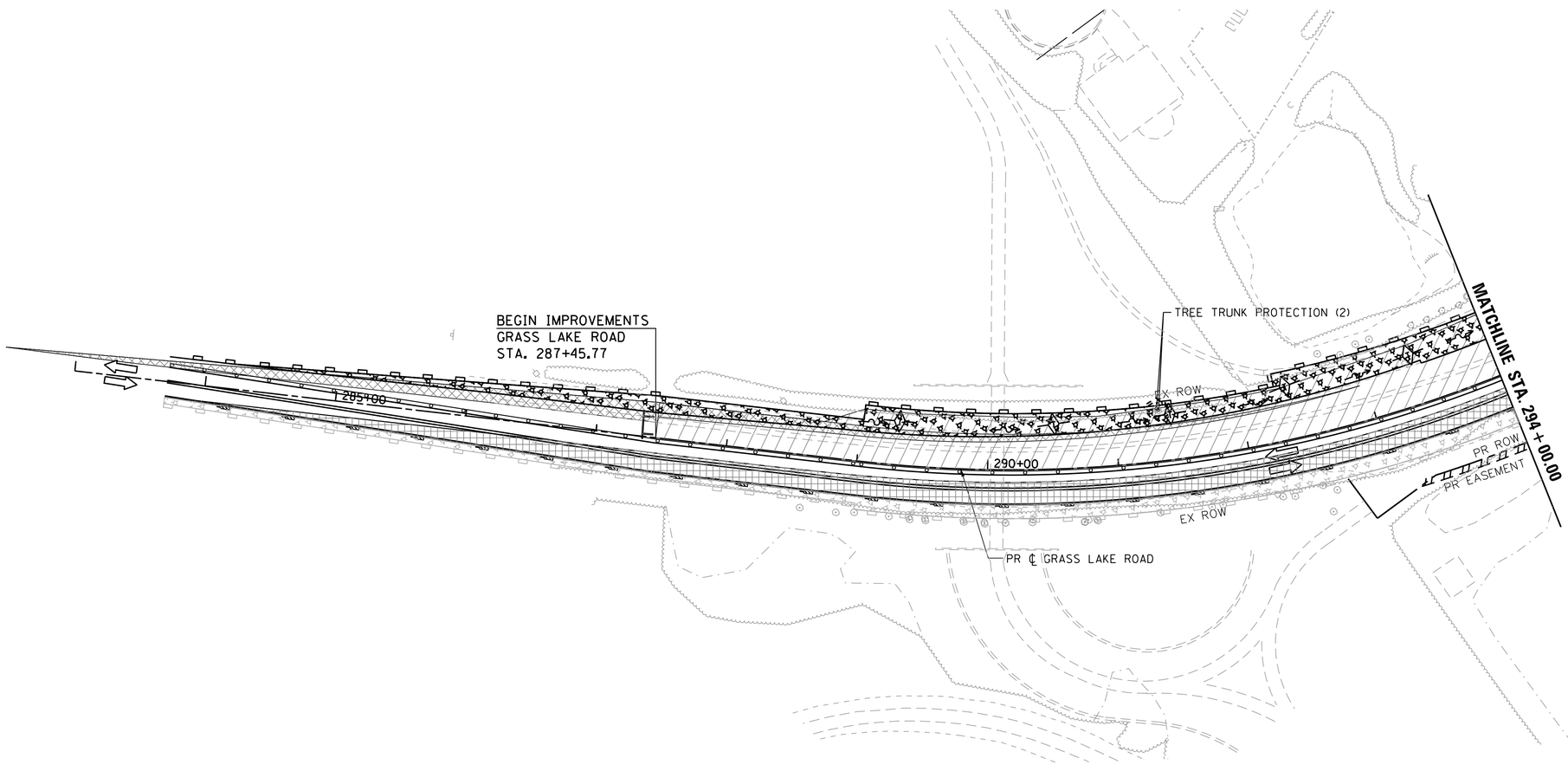
EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING	TREE TRUNK PROTECTION
EROSION CONTROL BLANKET FROM PREVIOUS STAGE	INLET AND PIPE PROTECTION
MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER (PEB)
MULCH, METHOD 3 FROM PREVIOUS STAGE	xxx —— xxx FENCE TEMPORARY
TEMPORARY PAVEMENT	TEMPORARY DITCH CHECKS

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 8 OF 8 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	146

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

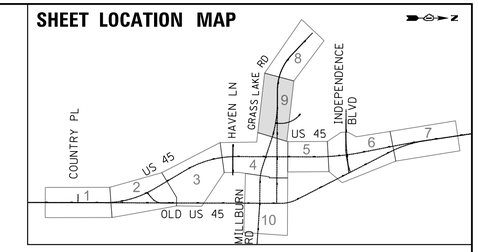
EROSION CONTROL LEGEND

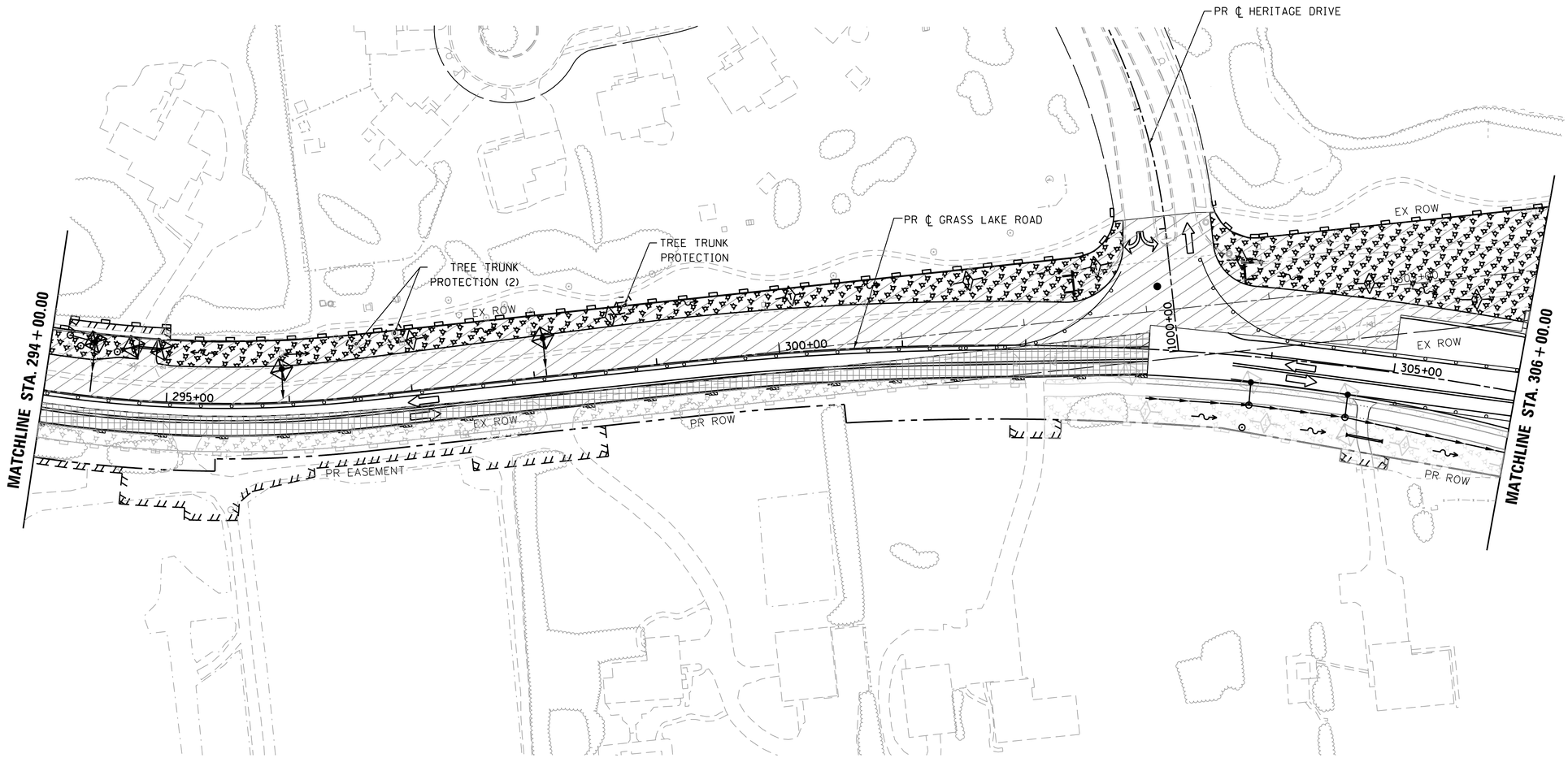
- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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NOTE BOOK NO.		

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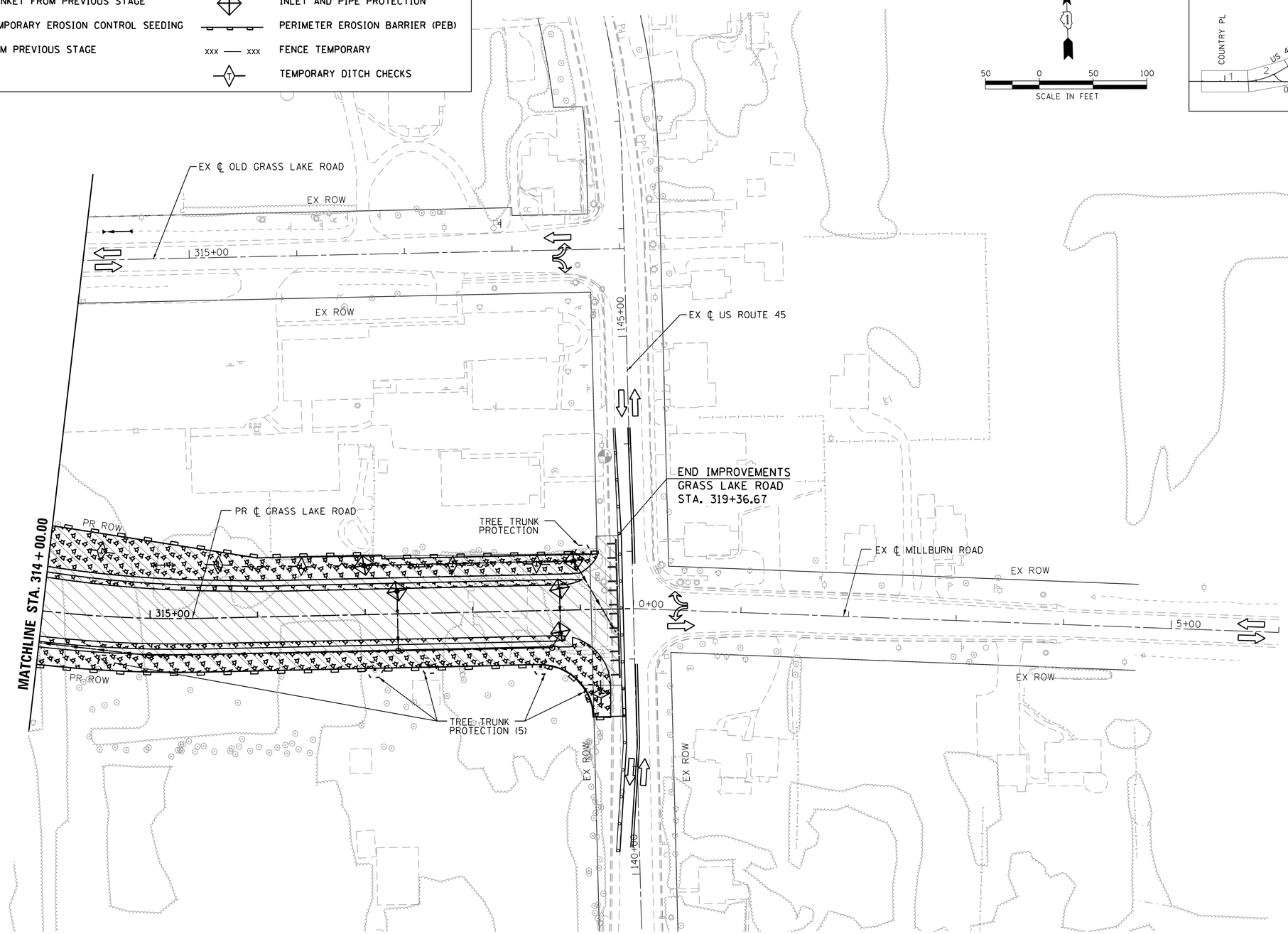
EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 9 OF 8 SHEETS | STA. 294+00 TO STA. 304+00

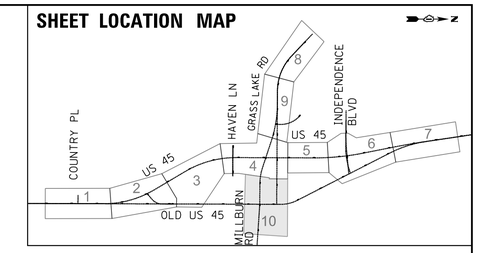
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	147
		CONTRACT NO. 60T75		
	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS



SHEET LOCATION MAP



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	B.M. NOTED		
	STRUCTURE NOTATNS CHKD		

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EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 2
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 10 OF 8 SHEETS | STA. 314+00 TO STA.

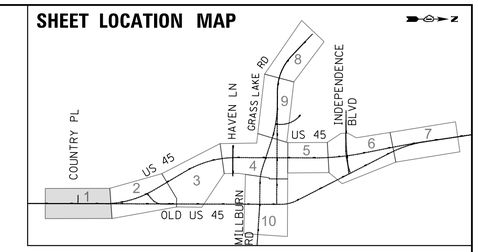
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	148
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

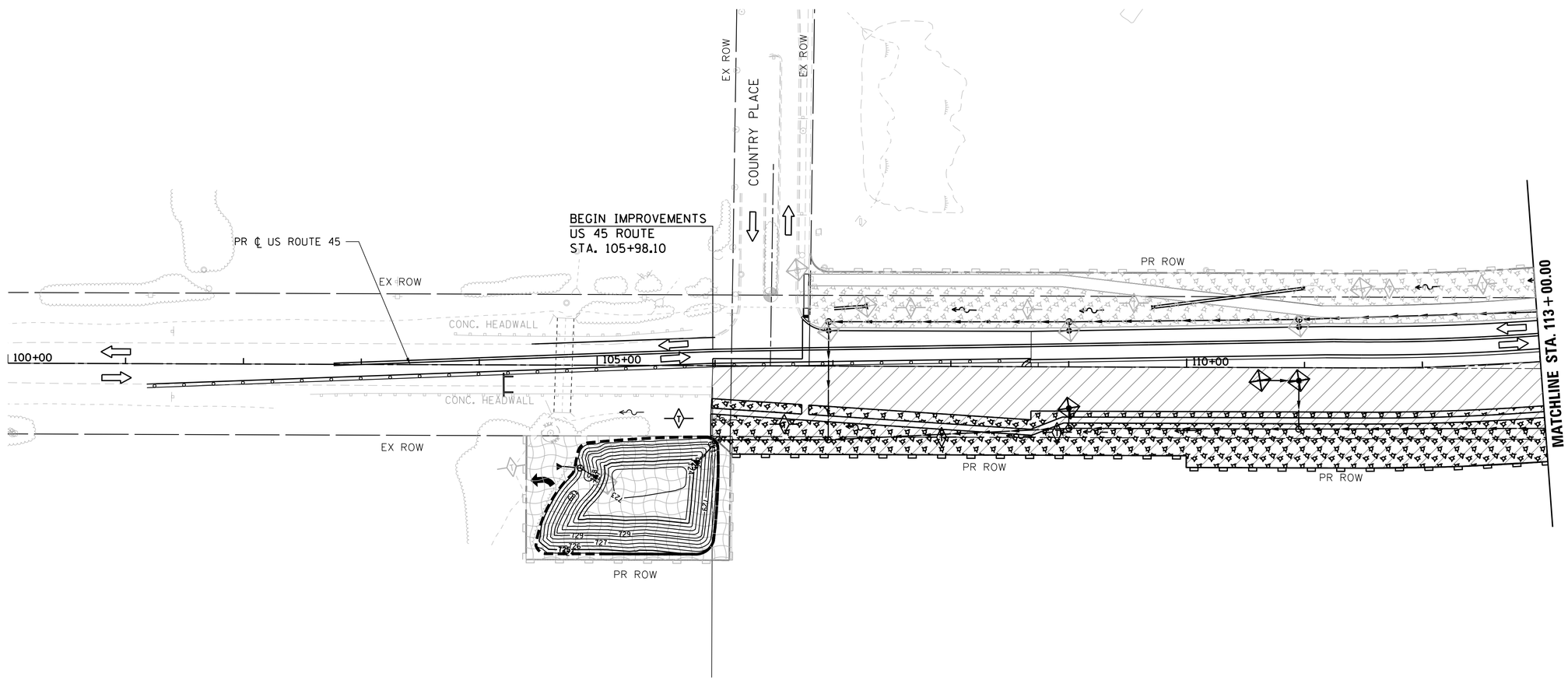
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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ALIGNMENT CHECKED		
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NOTE BOOK NO.		

PROFILE	BY	DATE
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B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED BN	REVISED	
PLOT DATE = 9/14/2017	DATE 02/02/2017	REVISED	

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
US ROUTE 45

SCALE: 1"=50' | SHEET 1 OF 7 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	149

CONTRACT NO. 60T75

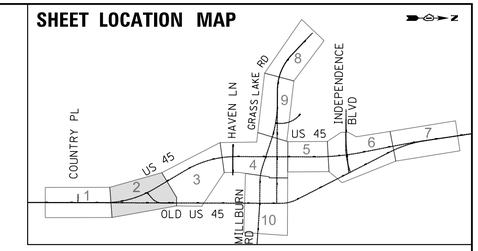
ILLINOIS FED. AID PROJECT

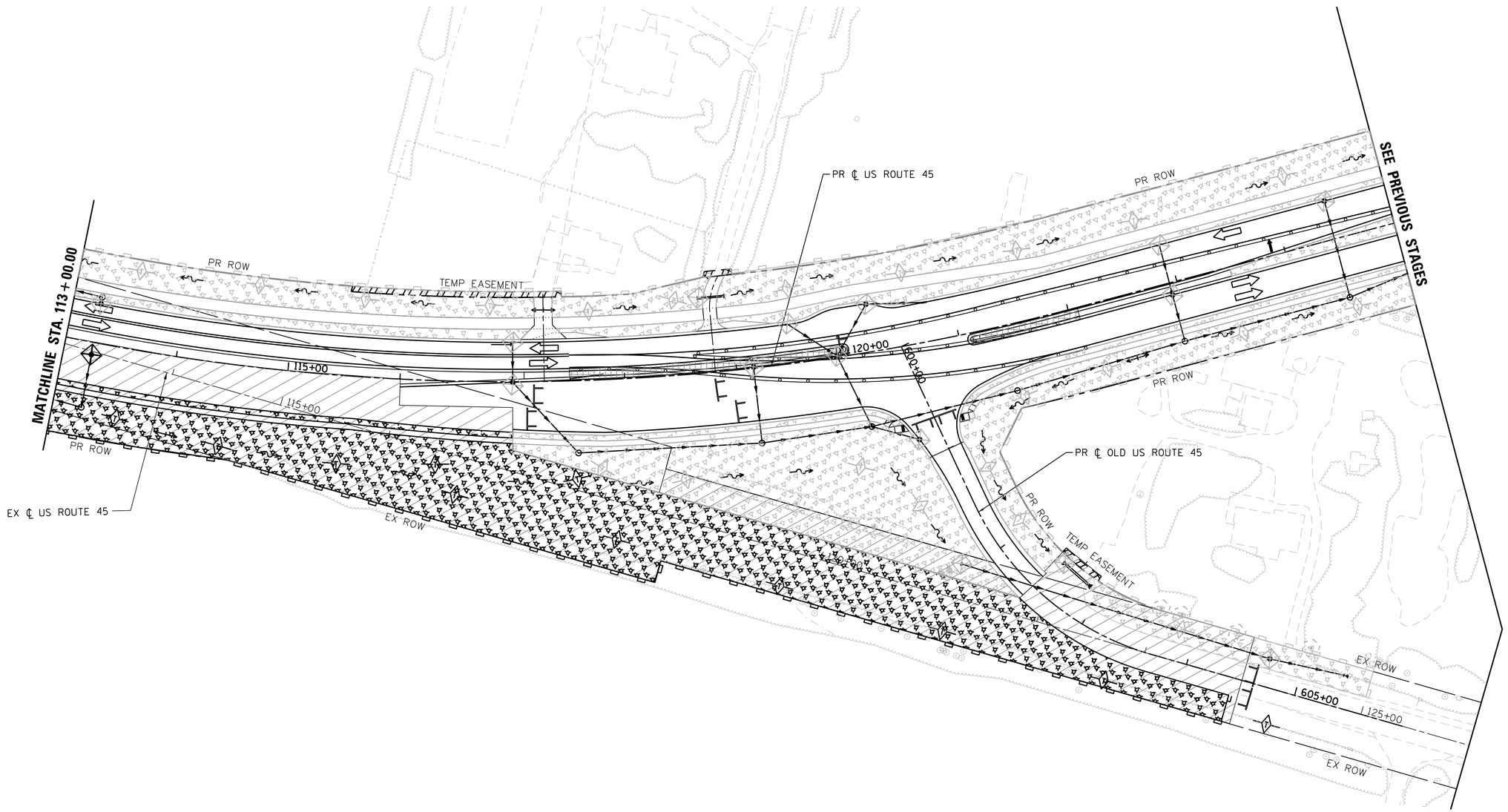
EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

SCALE IN FEET: 50 0 50 100

SHEET LOCATION MAP





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NOTE BOOK NO.		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
US ROUTE 45

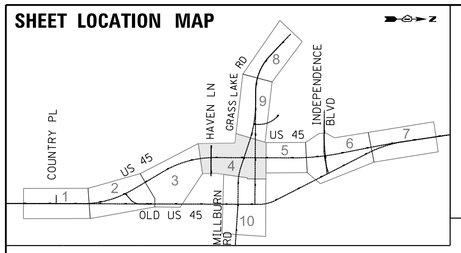
SCALE: 1"=50' | SHEET 2 OF 7 SHEETS | STA. 113+00 TO STA.125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	150

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

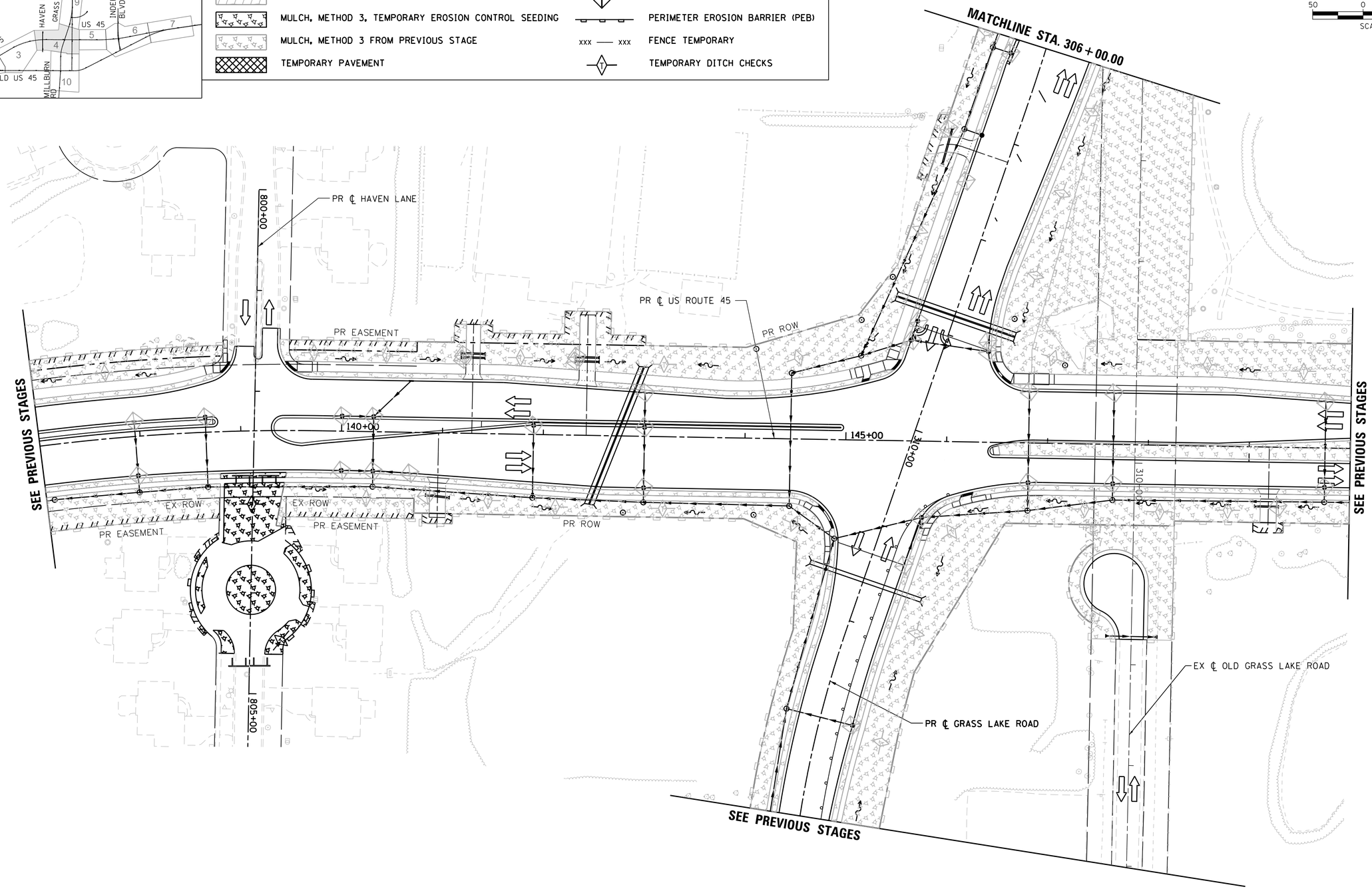
SHEET LOCATION MAP



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx — xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

SCALE IN FEET: 50 0 50 100



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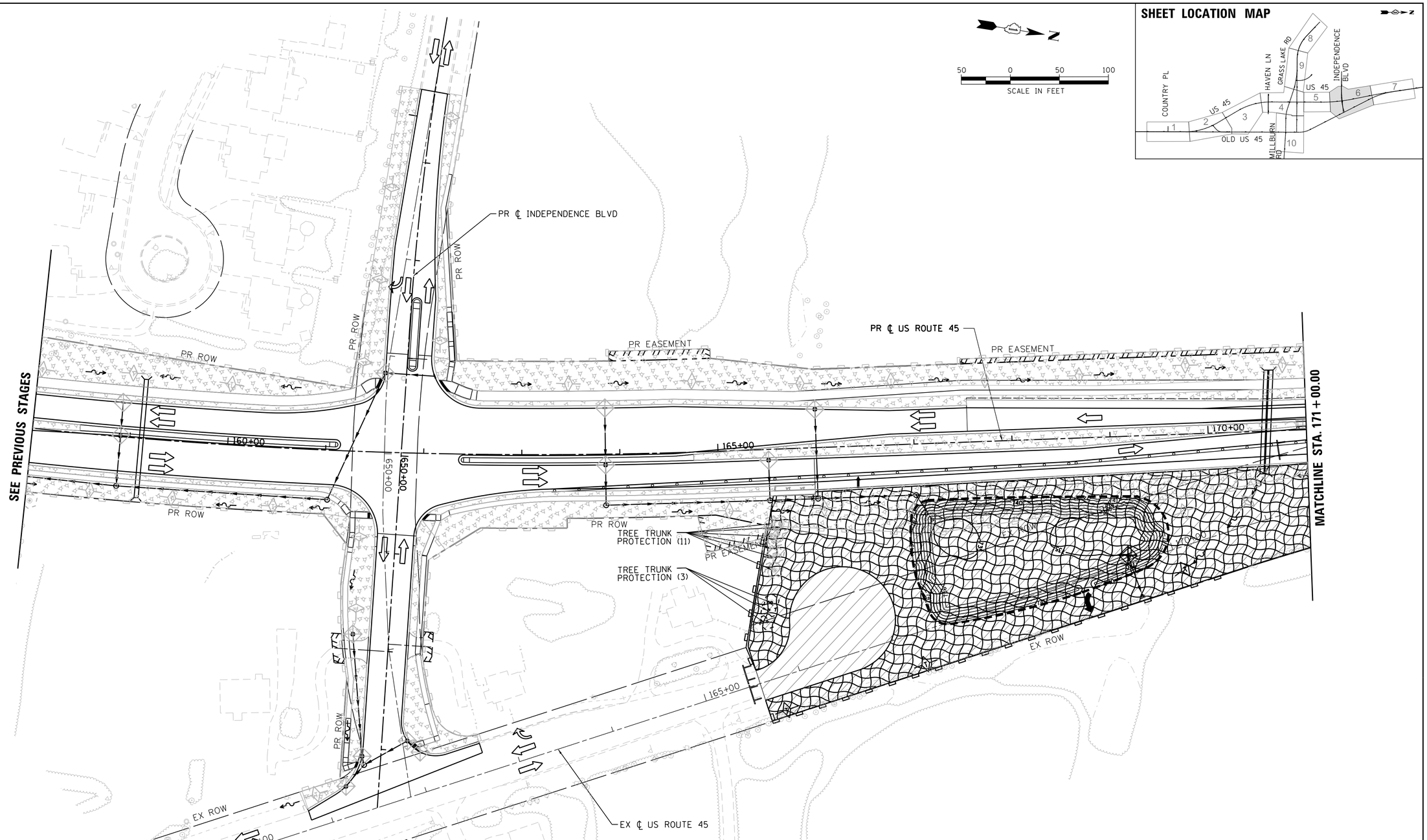
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 7 SHEETS | STA. 137+00 TO STA.150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	151
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		



EROSION CONTROL LEGEND

- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
US ROUTE 45

SCALE: 1"=50' | SHEET 6 OF 7 SHEETS | STA. 158+00 TO STA.171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	152
		CONTRACT NO. 60T75		
	ILLINOIS	FED. AID PROJECT		

EROSION CONTROL LEGEND

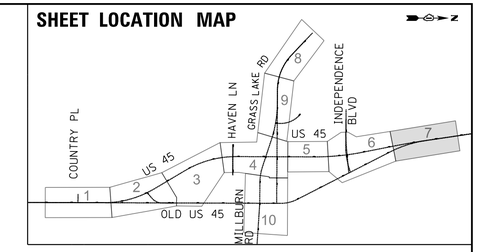
- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

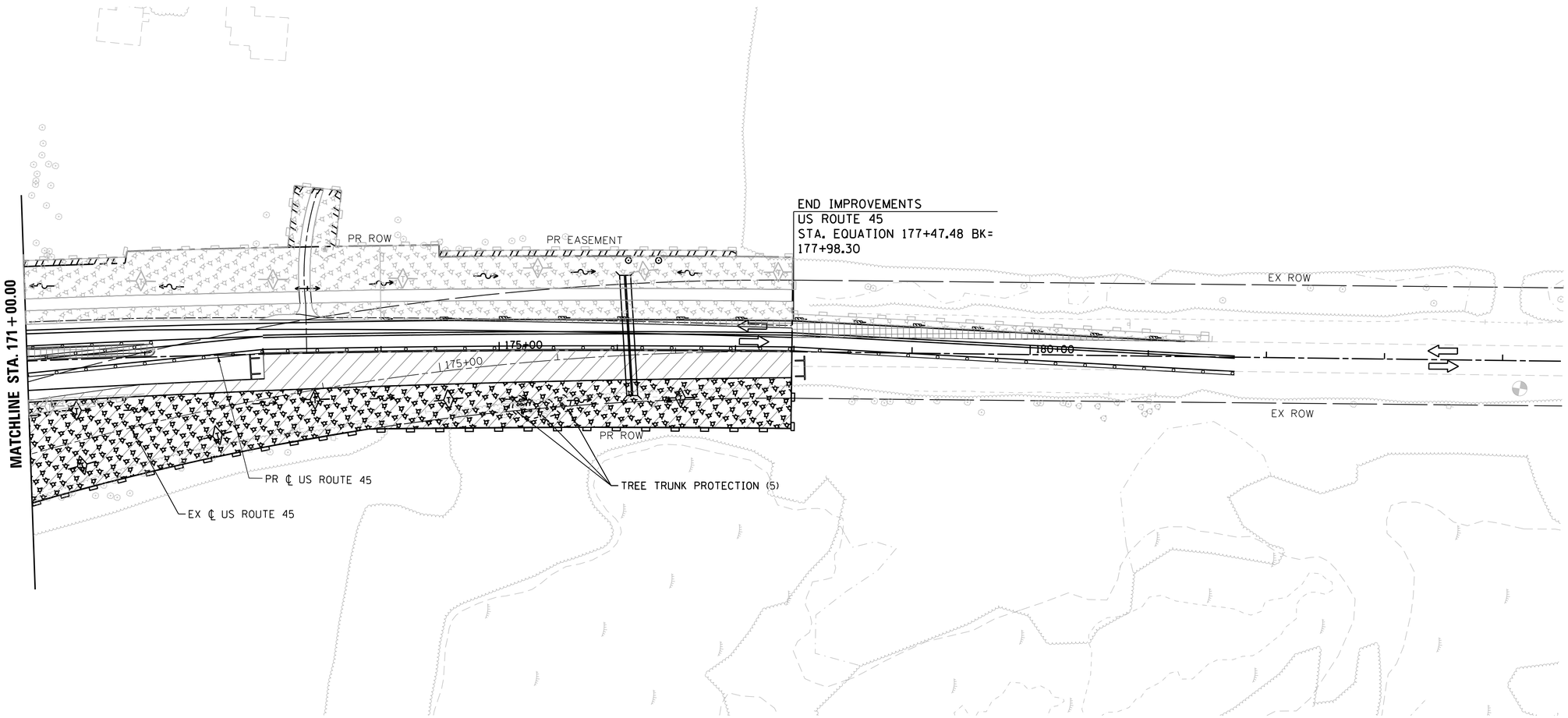
N

50 0 50 100

SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
US ROUTE 45

SCALE: 1"=50' | SHEET 7 OF 7 SHEETS | STA. 171+00 TO STA. 178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	153

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

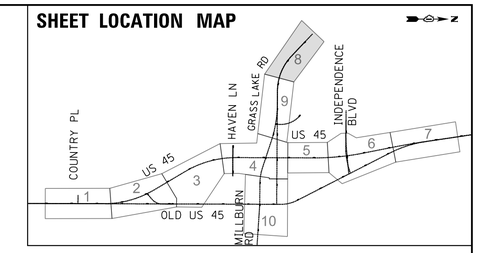
EROSION CONTROL LEGEND

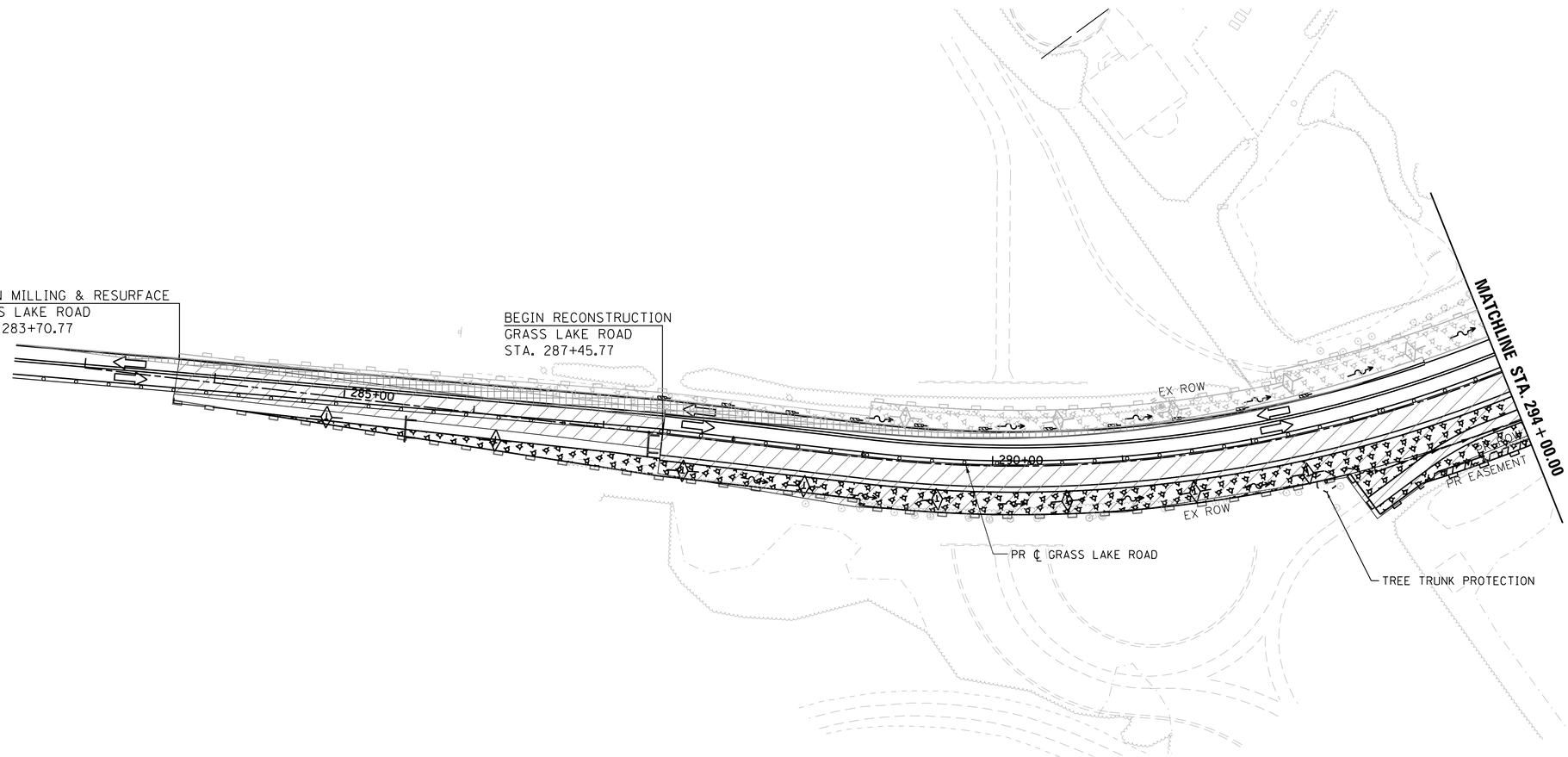
- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 8 OF 7 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	154
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

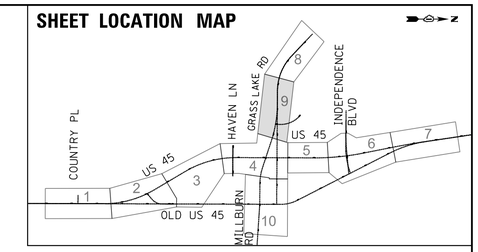
EROSION CONTROL LEGEND

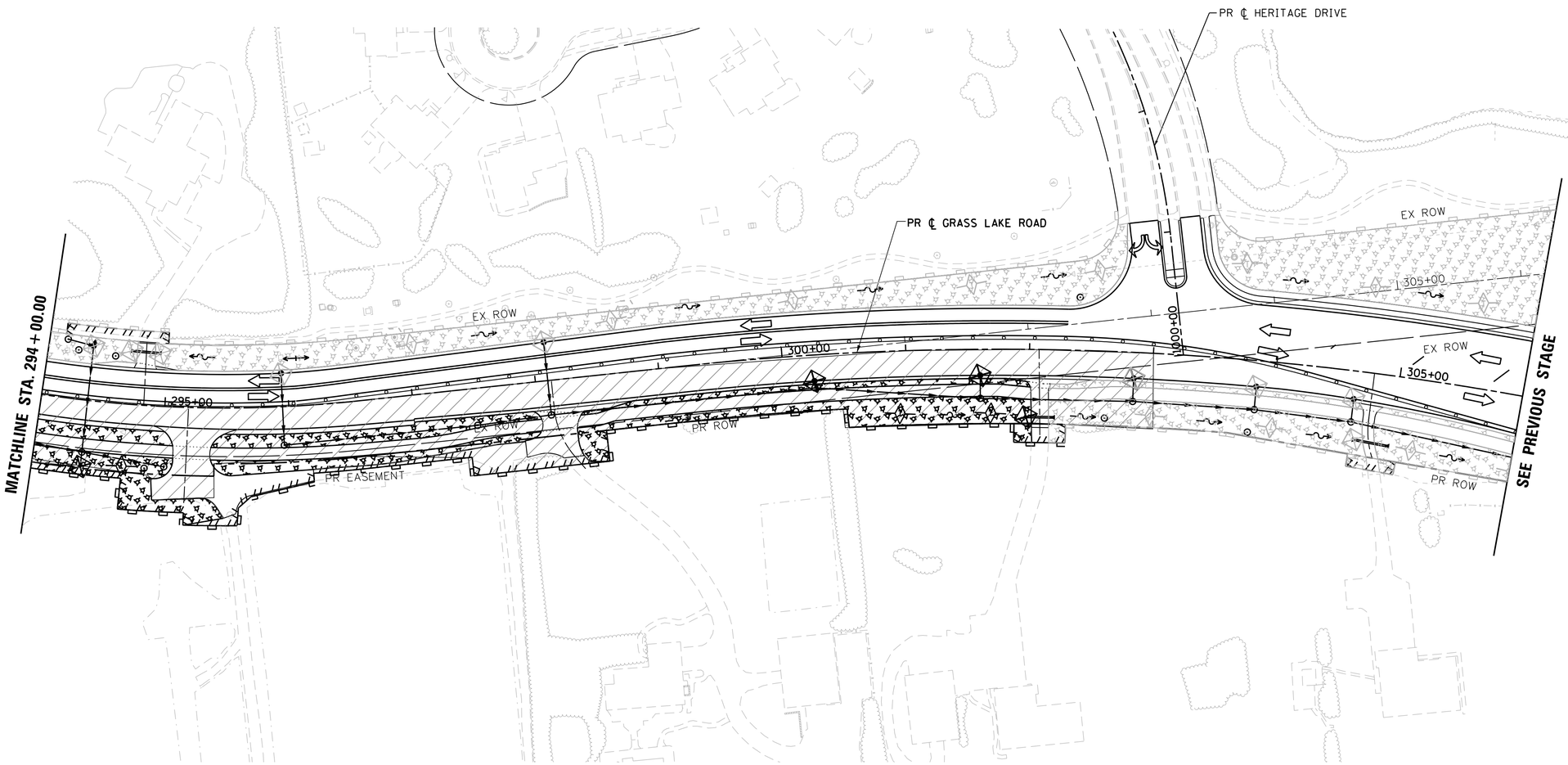
- EROSION CONTROL BLANKET, TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET FROM PREVIOUS STAGE
- MULCH, METHOD 3, TEMPORARY EROSION CONTROL SEEDING
- MULCH, METHOD 3 FROM PREVIOUS STAGE
- TEMPORARY PAVEMENT
- TREE TRUNK PROTECTION
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER (PEB)
- xxx —— xxx FENCE TEMPORARY
- TEMPORARY DITCH CHECKS

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGING PLAN – STAGE 3
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 9 OF 7 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	155

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

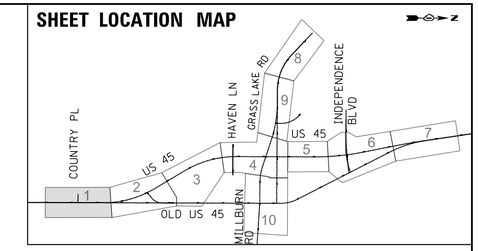
REMOVAL DRAINAGE LEGEND

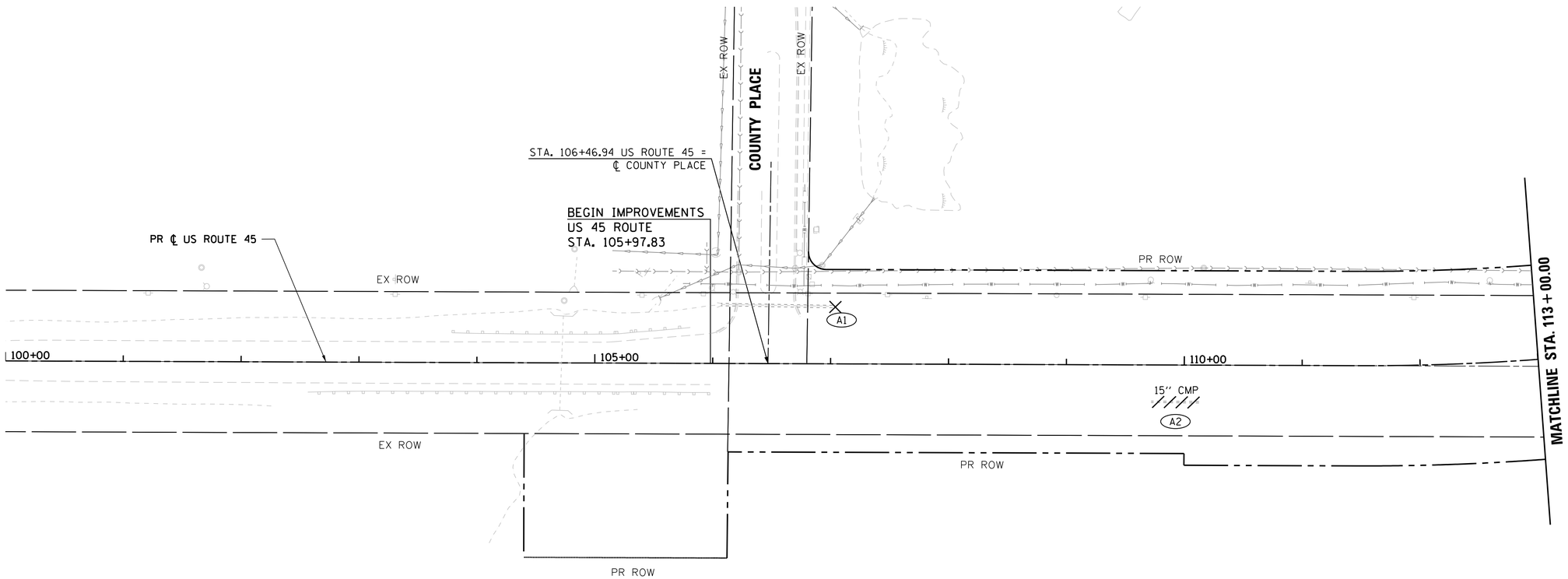
- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183

50 0 50 100
SCALE IN FEET





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	156

CONTRACT NO. 60T75

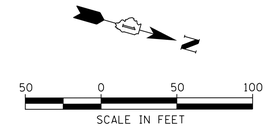
ILLINOIS FED. AID PROJECT

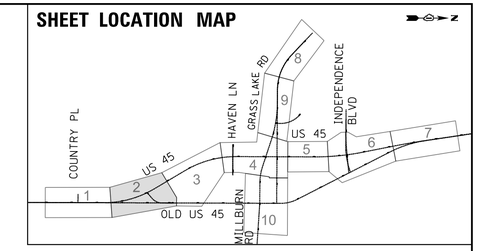
REMOVAL DRAINAGE LEGEND

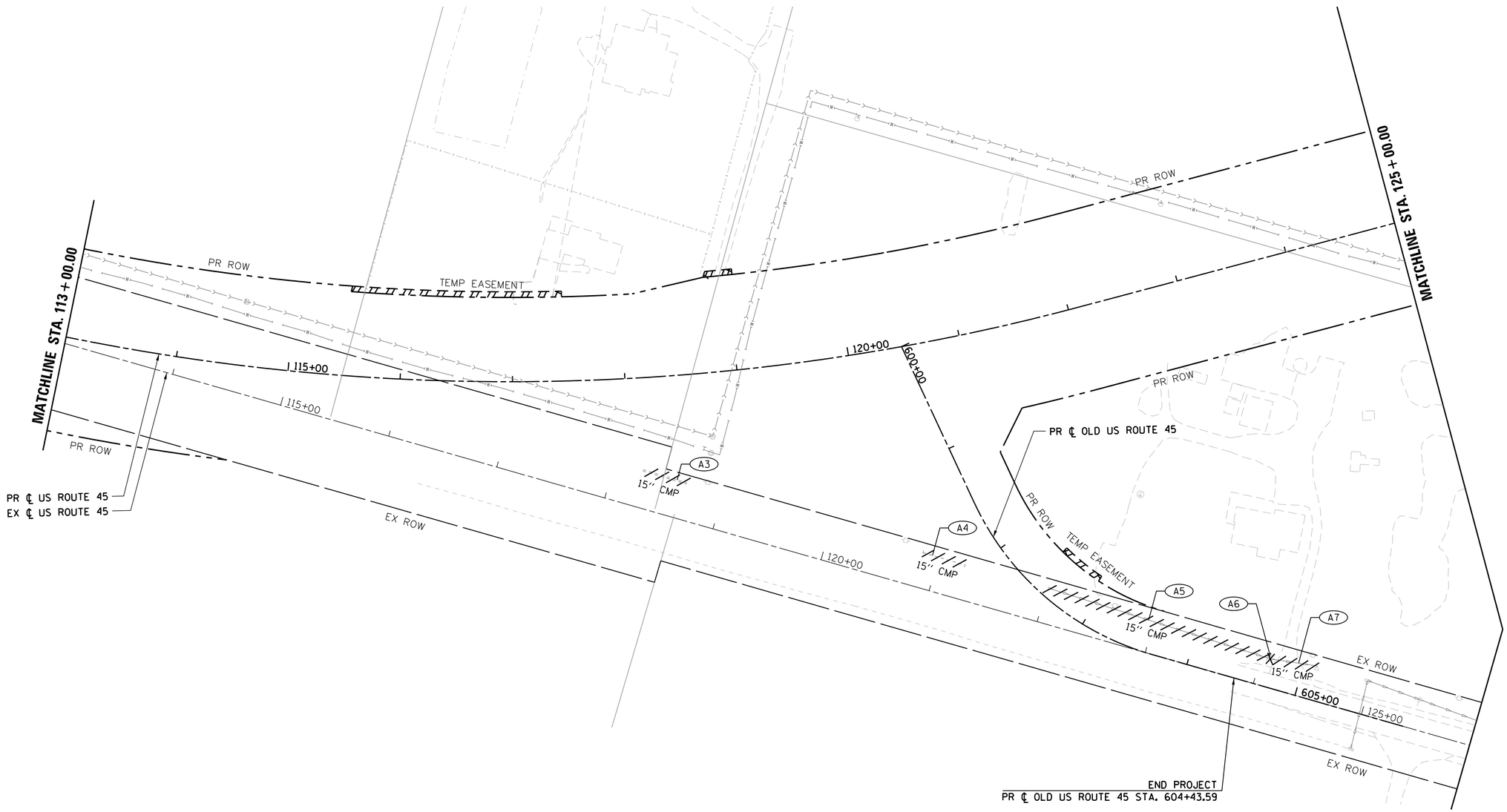
- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183







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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 113+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	157

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

MILLBURN CREEK

PR ℄ US ROUTE 45

UNNAMED TRIBUTARY TO MILLBURN CREEK

MATCHLINE STA. 125+00.00

125+00

130+00

135+00

PR ROW

PR EASEMENT

EXISTING FIELD TILE REMOVAL, 16'
SIZE AND INVERTS TO BE FIELD VERIFIED

EXISTING FIELD TILE REMOVAL, 261'
SIZE AND INVERTS TO BE FIELD VERIFIED

MATCHLINE STA. 137+00.00

PR ROW

PR EASEMENT

PR ROW

PR ROW

PR ROW

PR ROW

EX ROW

EX ROW

130+00

EX ℄ US ROUTE 45

HEADW

50 0 50 100
SCALE IN FEET

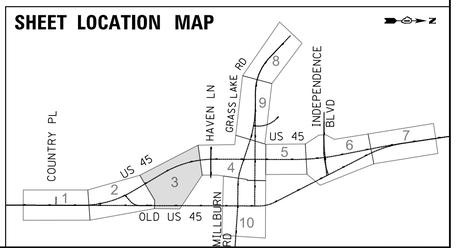
NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183

REMOVAL DRAINAGE LEGEND

//////	LINEAR ITEM REMOVAL
X	ITEM REMOVAL
AX	STRUCTURE TO BE ADJUSTED
AX	PIPE TO BE REMOVED

SHEET LOCATION MAP



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

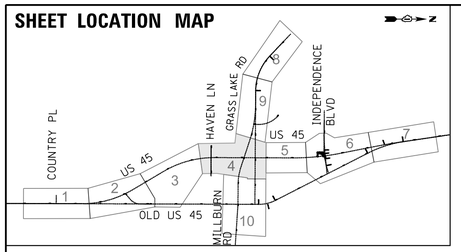
SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	158

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP

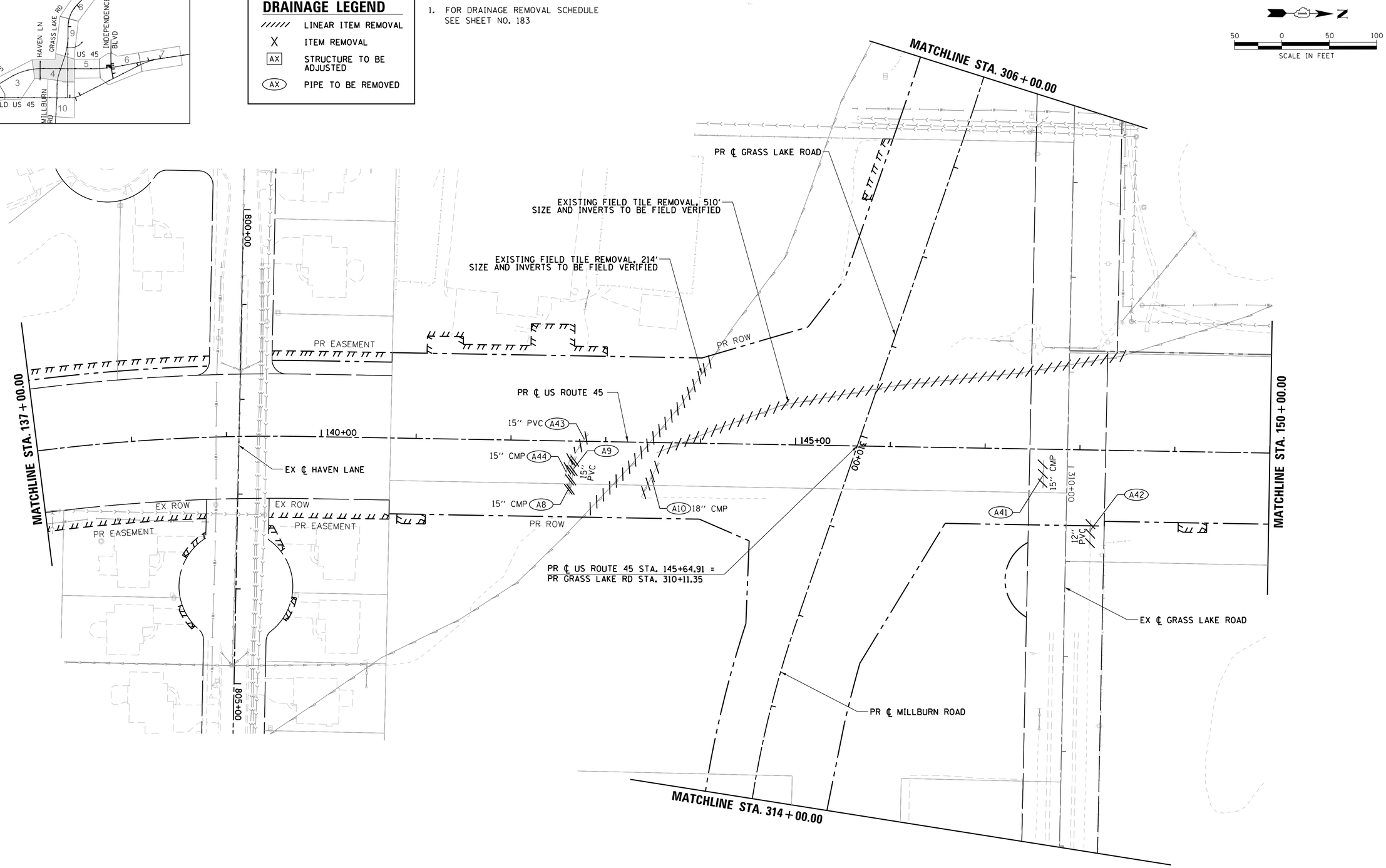


REMOVAL DRAINAGE LEGEND

- LINEAR ITEM REMOVAL
- ITEM REMOVAL
- (AX) STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	159

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

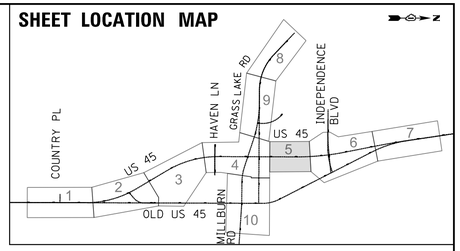
REMOVAL DRAINAGE LEGEND

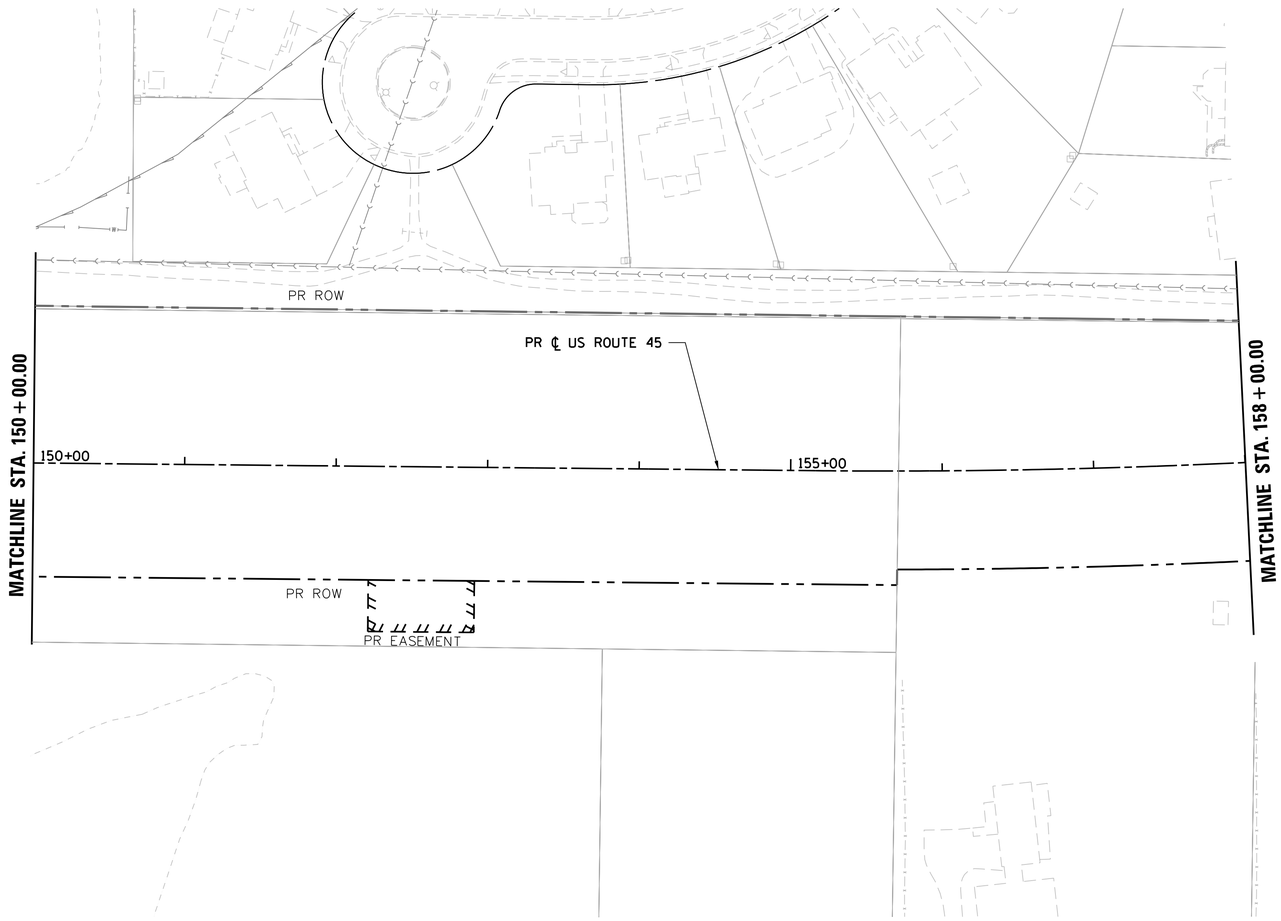
- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183

50 0 50 100
SCALE IN FEET





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SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED DW	REVISED
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	160

CONTRACT NO. 60T75

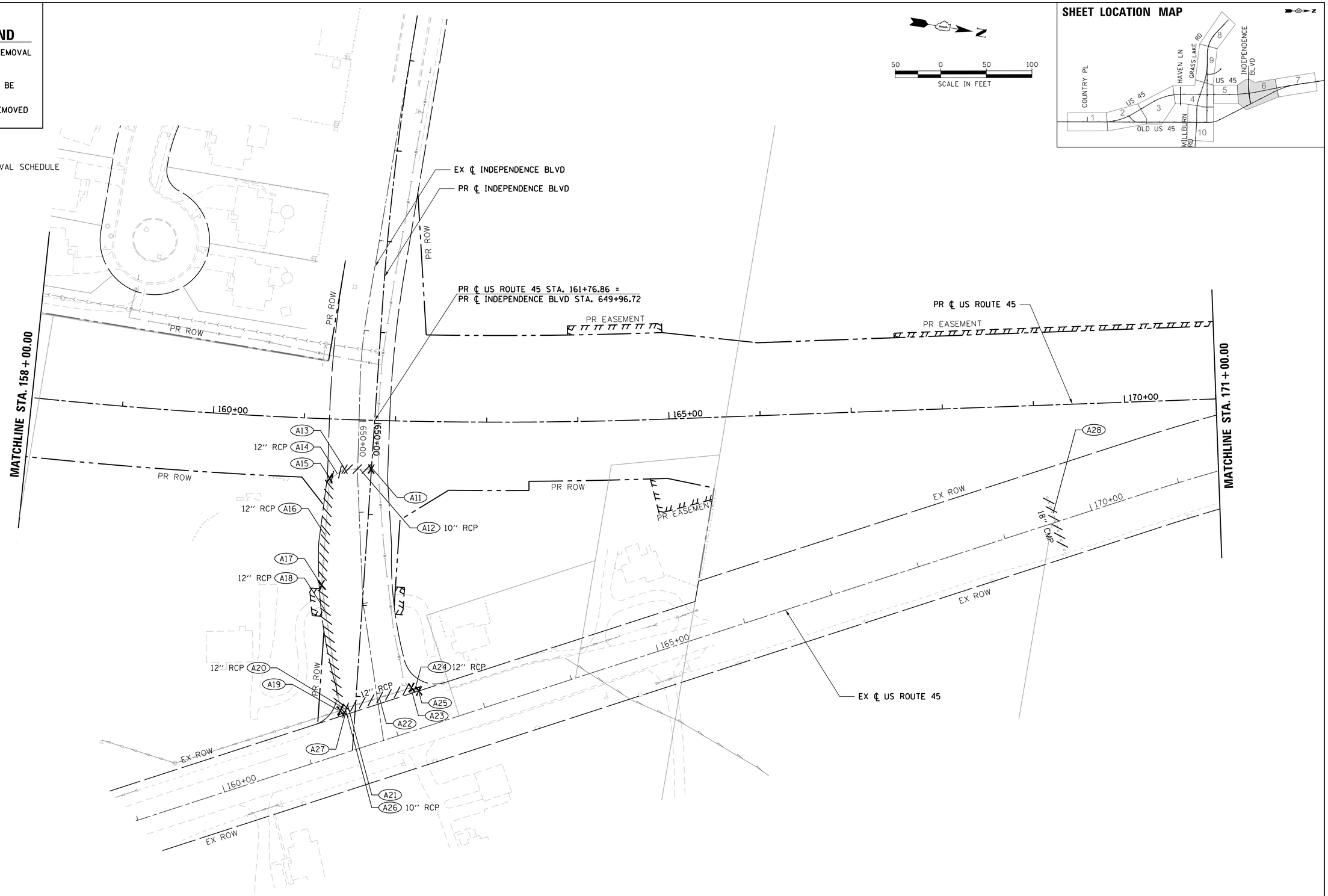
ILLINOIS FED. AID PROJECT

REMOVAL DRAINAGE LEGEND

- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183



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PLOT SCALE = 50.0000 ' / in.	CHECKED DW	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA. 171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	161

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / BM. NOTED / STRUCTURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

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REMOVAL DRAINAGE LEGEND

- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

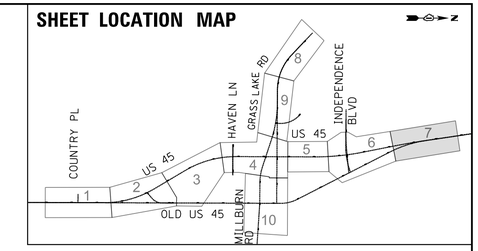
NOTE:

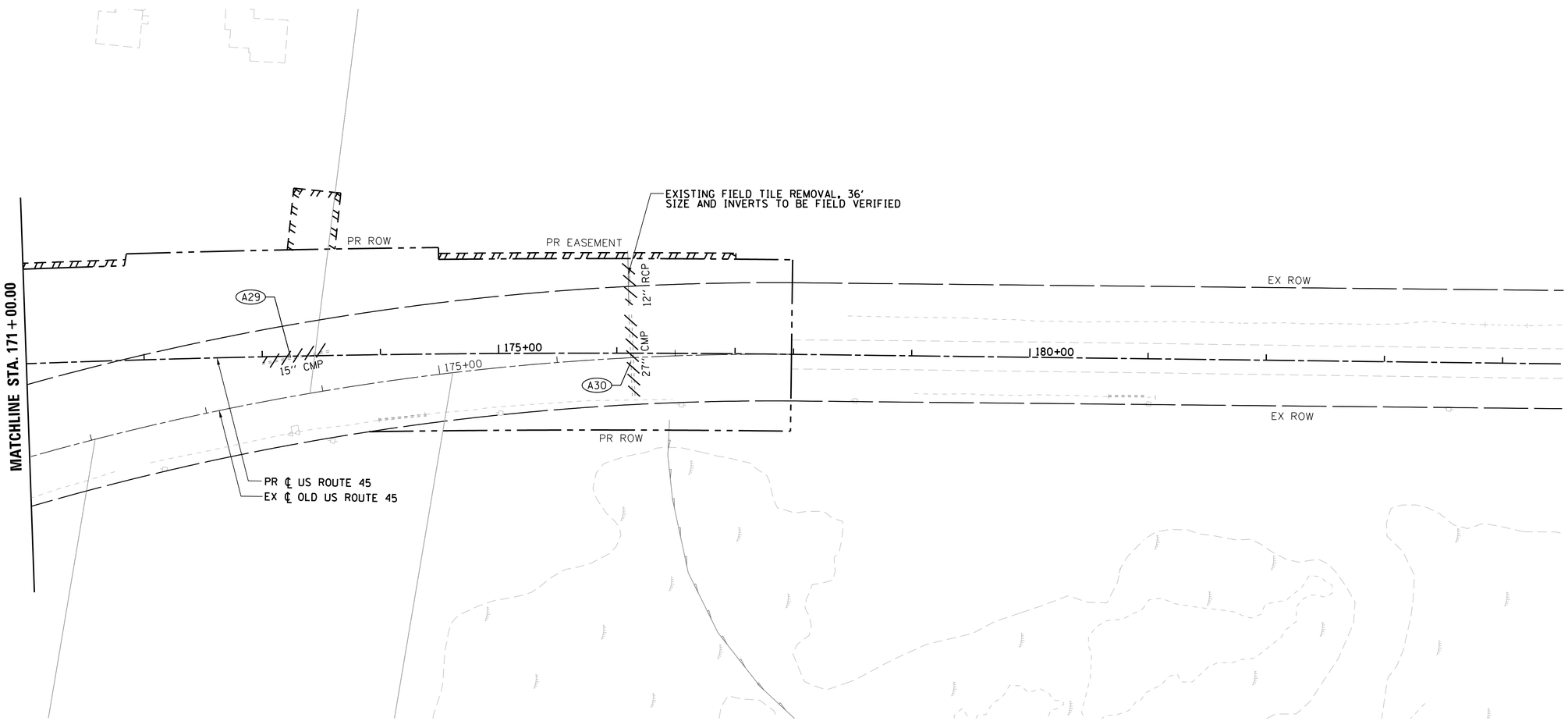
1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183

N

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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PLOTTED		
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RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
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GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA.178+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	162

CONTRACT NO. 60T75

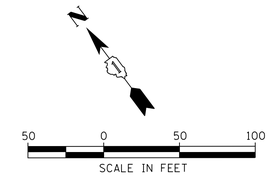
ILLINOIS FED. AID PROJECT

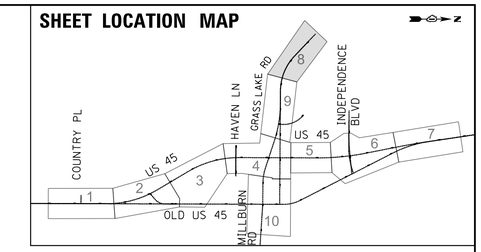
REMOVAL DRAINAGE LEGEND

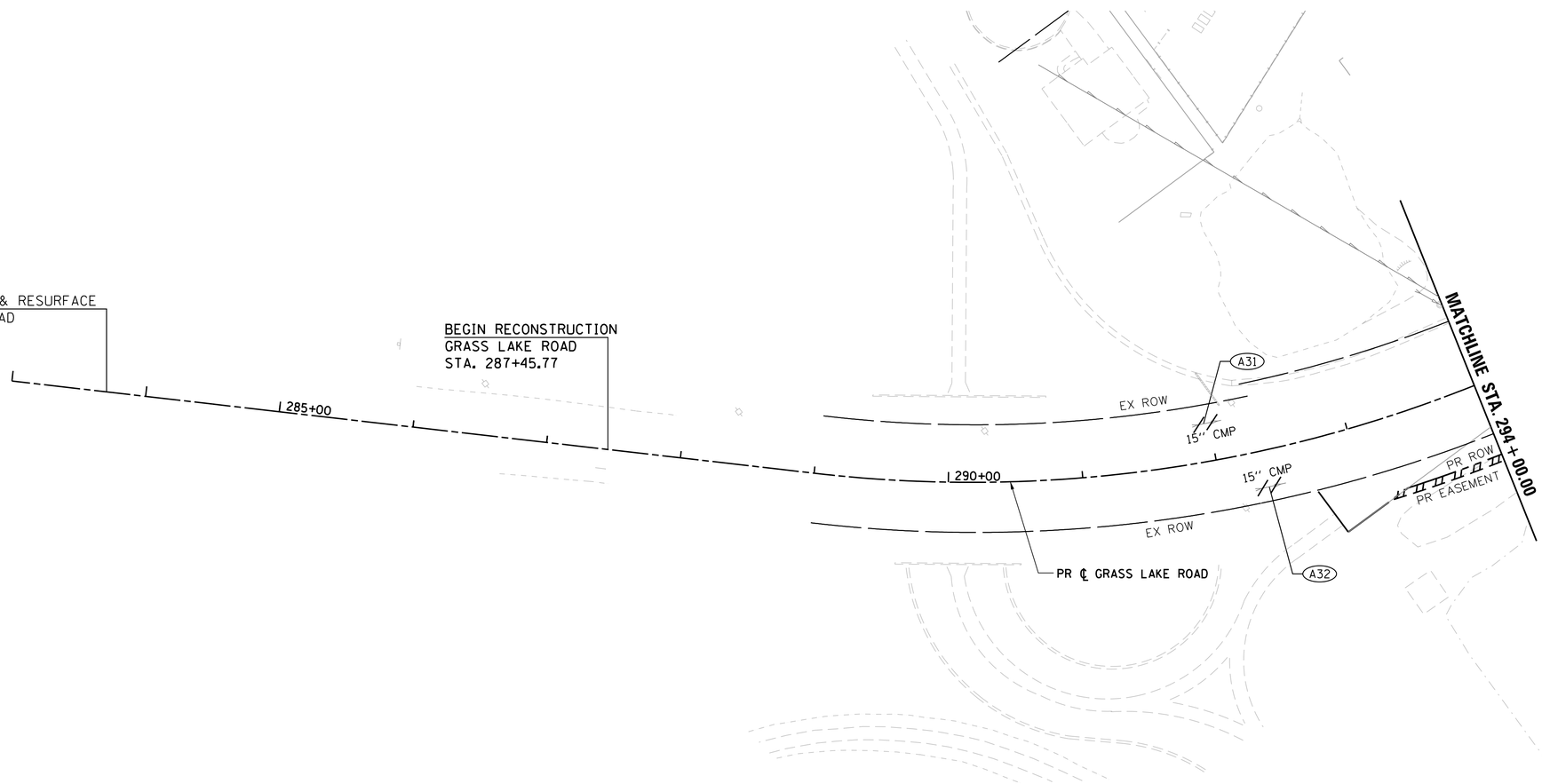
- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183







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NOTE BOOK NO.		

PROFILE	BY	DATE
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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	163
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

REMOVAL DRAINAGE LEGEND

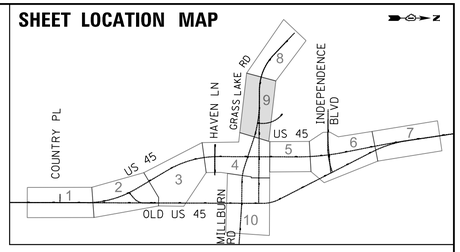
- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

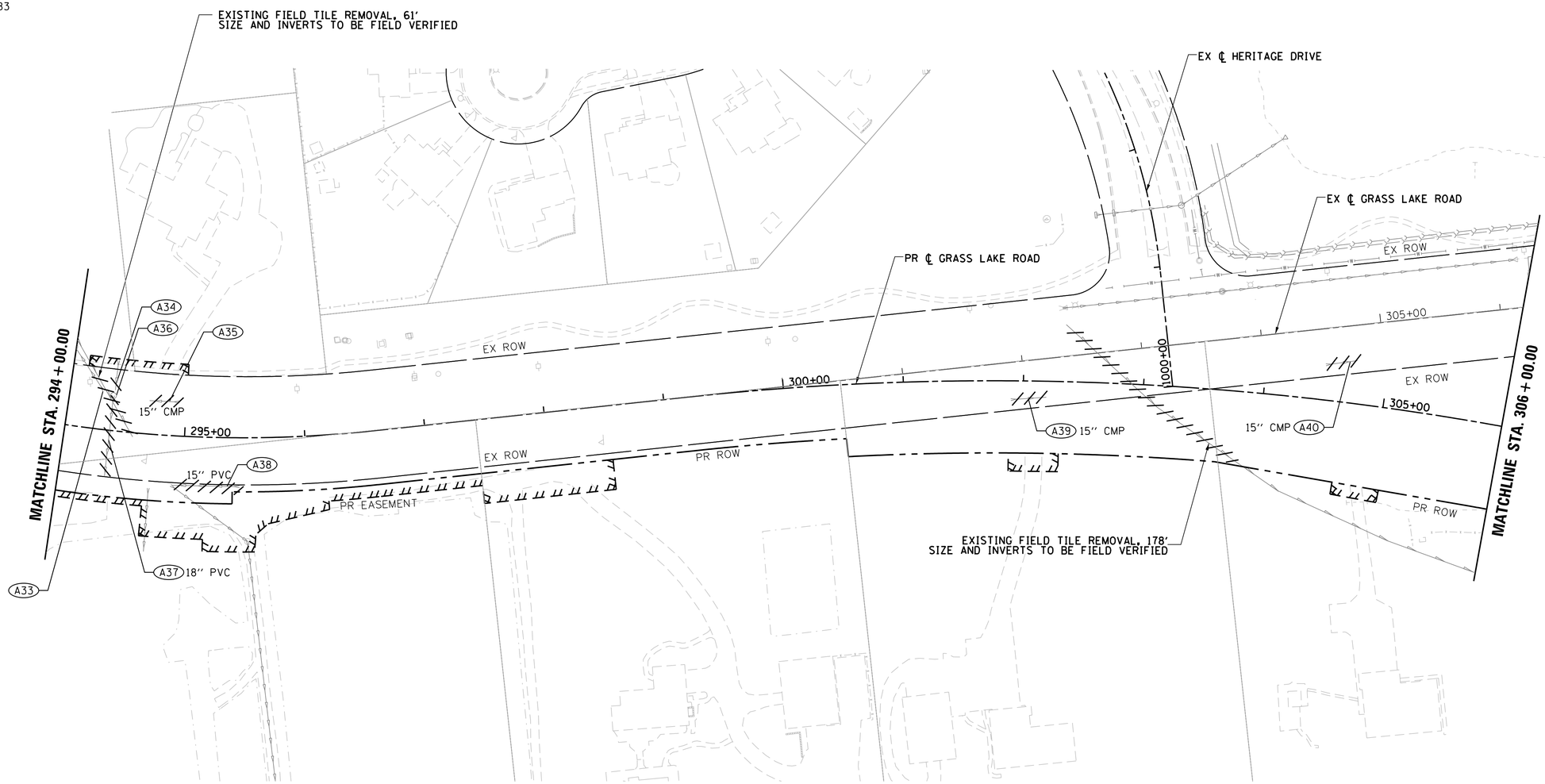
NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183

N

50 0 50 100
SCALE IN FEET





PLAN		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
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	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO. ____	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	BM. NOTED		
	STRUCTURE NOTATNS CHKD		

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

DRAINAGE REMOVAL PLAN
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	164

CONTRACT NO. 60T75

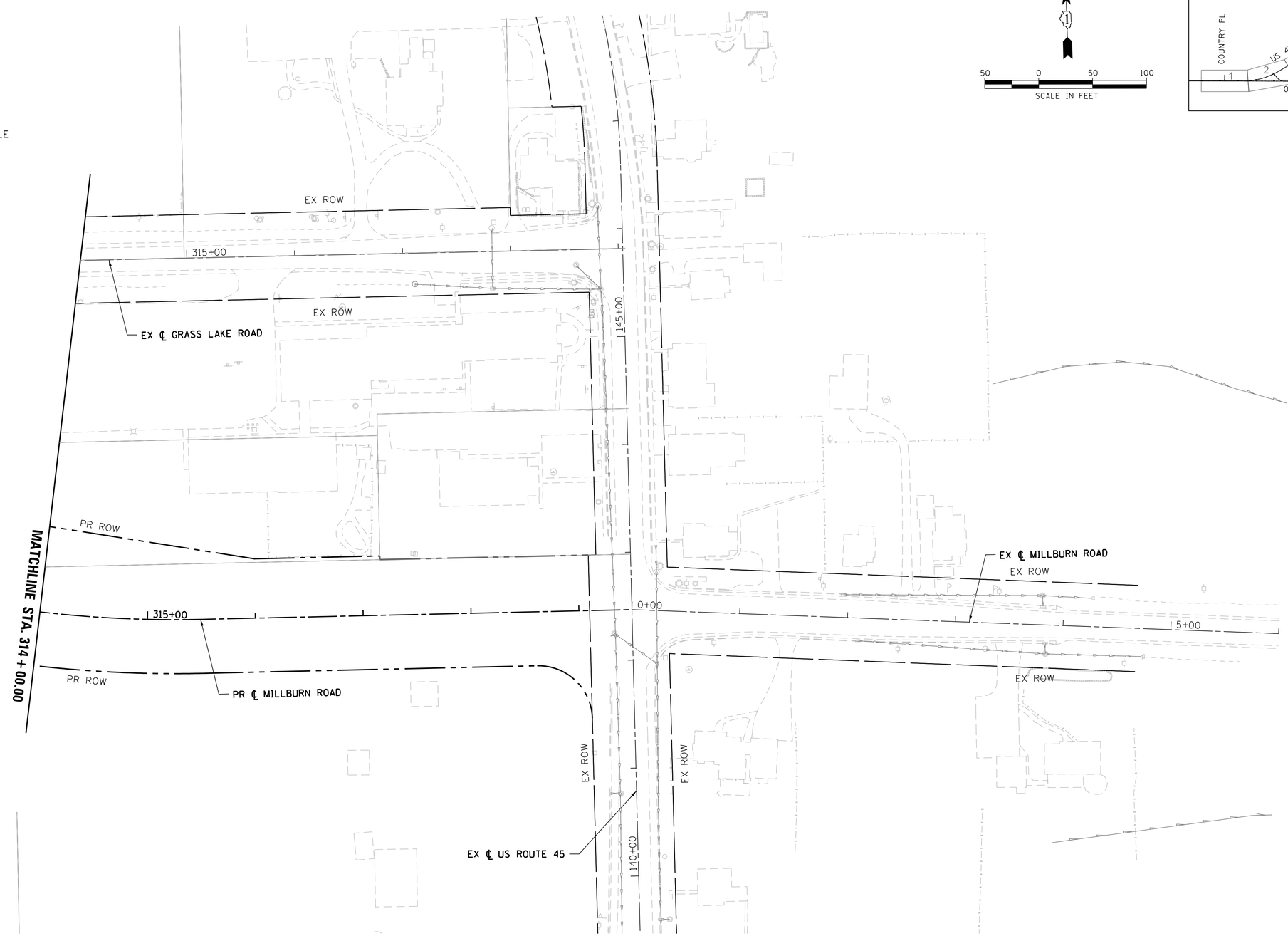
ILLINOIS FED. AID PROJECT

REMOVAL DRAINAGE LEGEND

- ////// LINEAR ITEM REMOVAL
- X ITEM REMOVAL
- [AX] STRUCTURE TO BE ADJUSTED
- (AX) PIPE TO BE REMOVED

NOTE:

1. FOR DRAINAGE REMOVAL SCHEDULE SEE SHEET NO. 183



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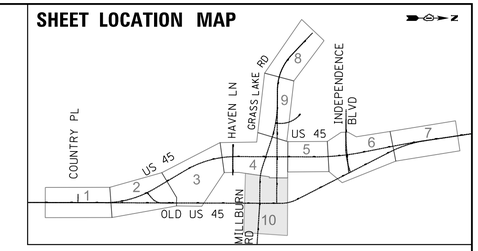
SCALE IN FEET



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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
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NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CH'KD		
NOTE BOOK NO.		

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

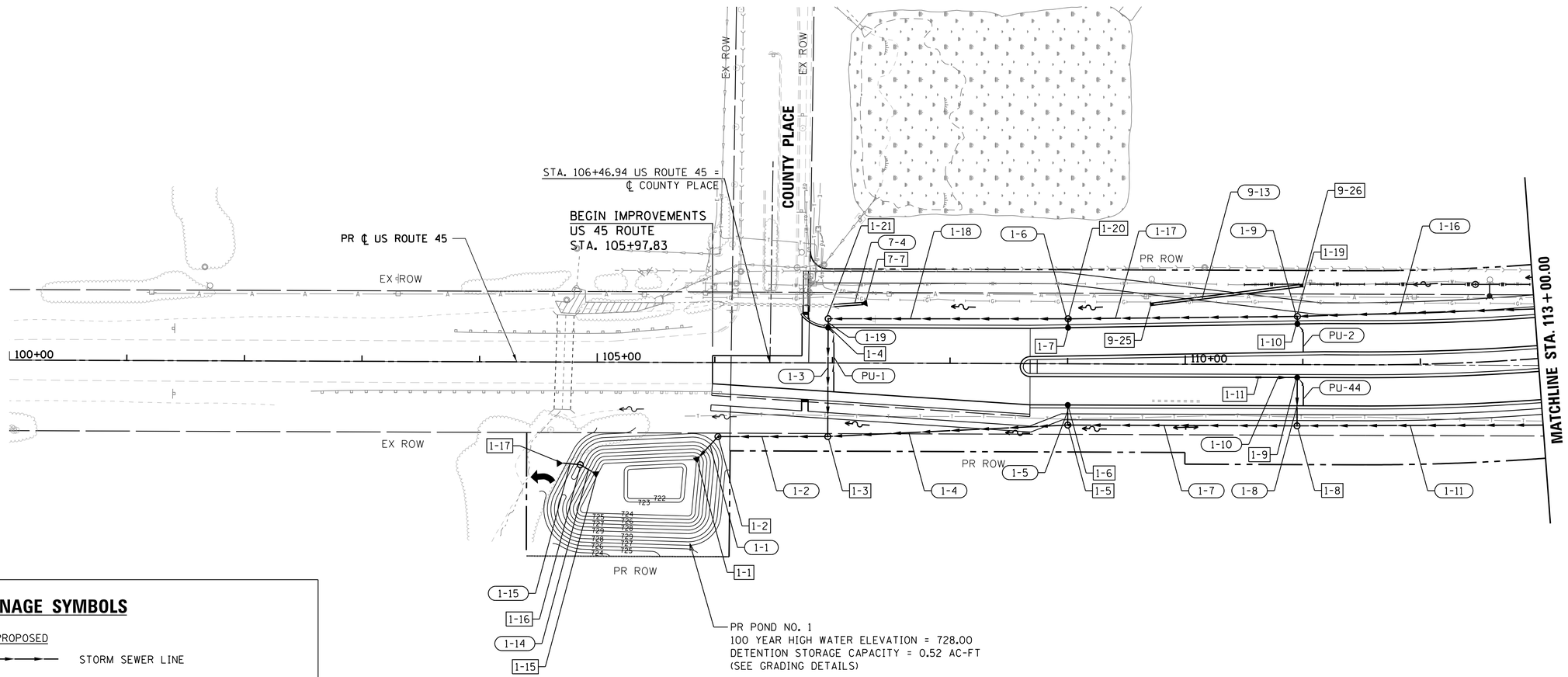
DRAINAGE REMOVAL PLAN
GRASS LAKE ROAD

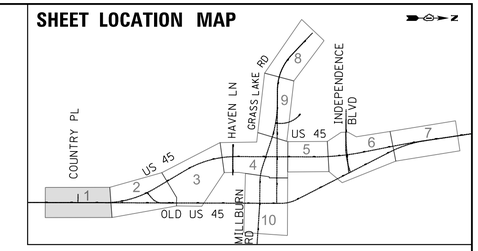
SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	165

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

PROPOSED DRAINAGE PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	166

CONTRACT NO. 60T75

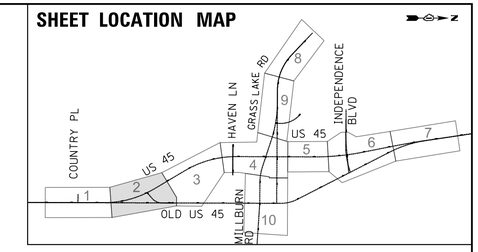
ILLINOIS FED. AID PROJECT

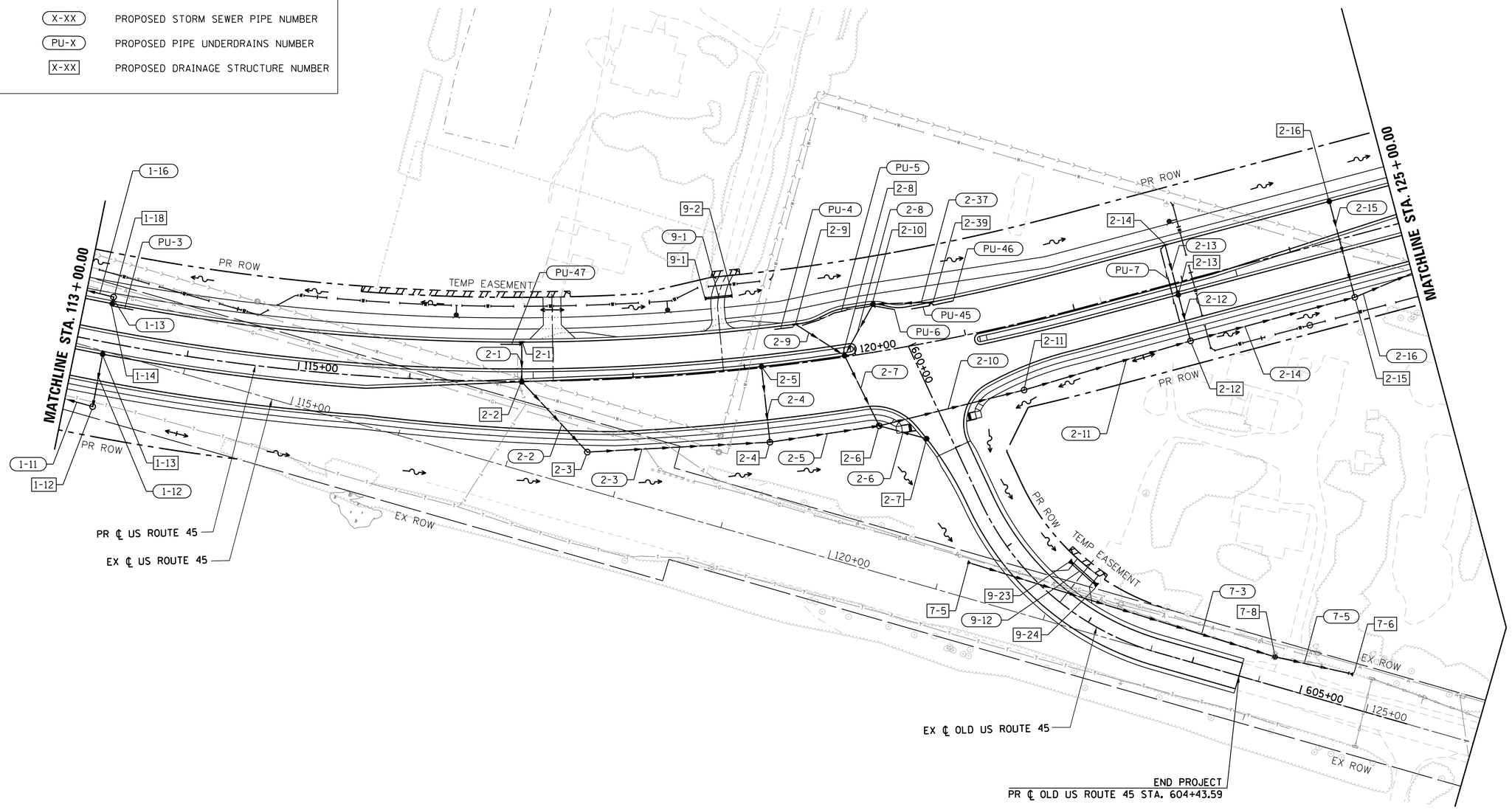
DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





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SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BKM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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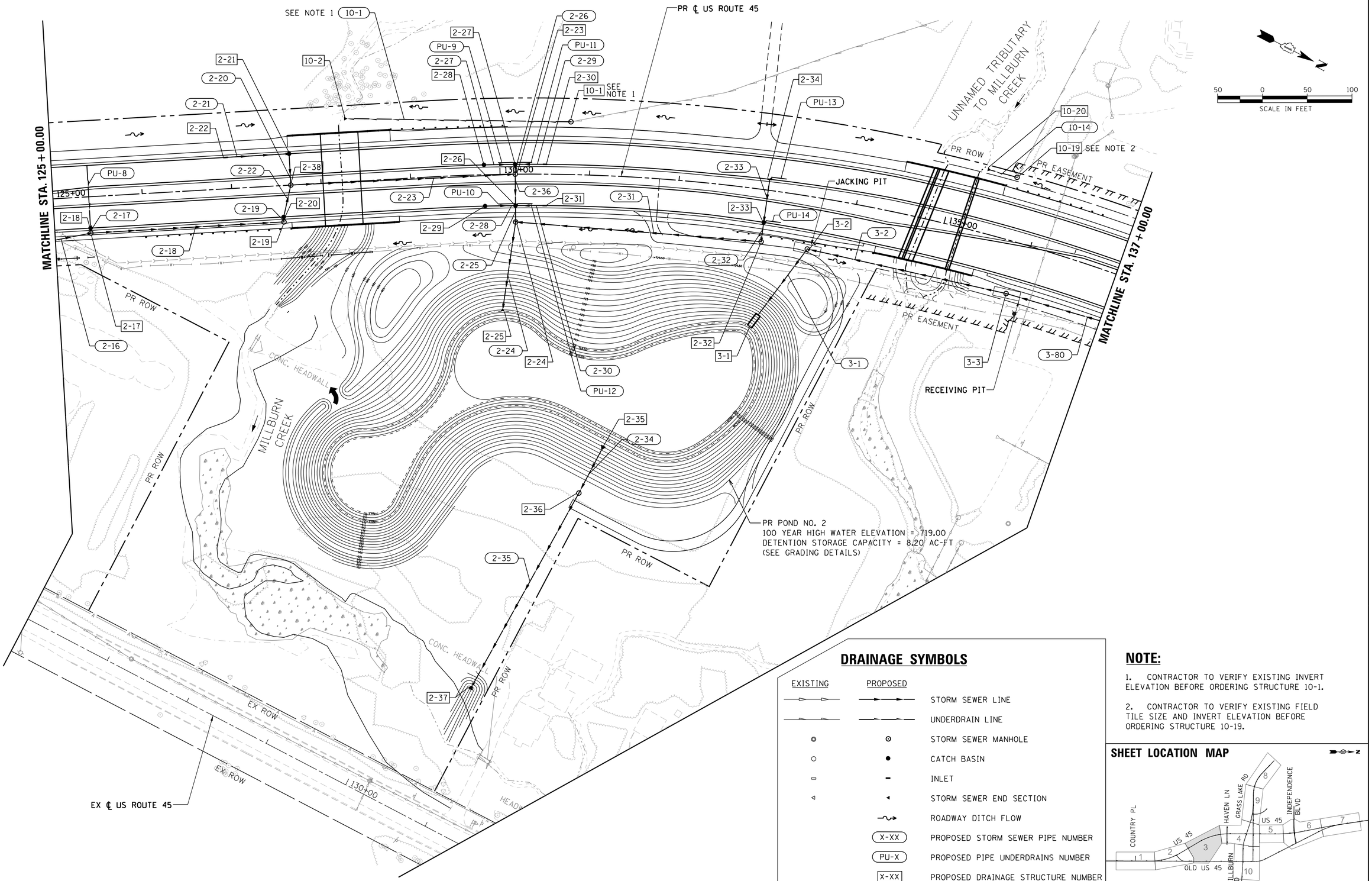
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

PROPOSED DRAINAGE PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 113+00 TO STA.125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	167
		CONTRACT NO. 60T75		
	ILLINOIS	FED. AID PROJECT		



DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

NOTE:

1. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATION BEFORE ORDERING STRUCTURE 10-1.

2. CONTRACTOR TO VERIFY EXISTING FIELD TILE SIZE AND INVERT ELEVATION BEFORE ORDERING STRUCTURE 10-19.

SHEET LOCATION MAP

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CH'KD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN
US ROUTE 45

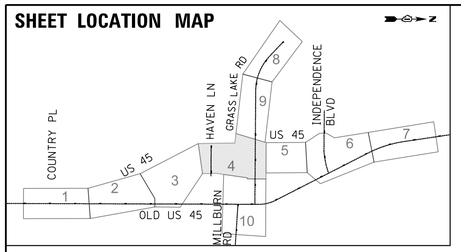
SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	168

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

SHEET LOCATION MAP



NOTES:

1. THE CONTRACTOR SHALL LOCATE AND DETERMINE THE EXISTING DRAIN TILE, DUAL FORCEMAIN AND SANITARY SEWER INVERT ELEVATIONS. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE THE STATION, OFFSET AND INVERT ELEVATION OF THE EXISTING UTILITIES IN WRITING. MATERIALS SHALL NOT BE ORDERED FOR STORM SEWER NETWORK #3 OR DRAIN TILE NETWORK #10 WITHOUT THE ENGINEER'S APPROVAL.

2. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATION BEFORE ORDERING STRUCTURES 10-3 AND 19-9.

SCALE IN FEET: 50 0 50 100

MATCHLINE STA. 306+00.00

MATCHLINE STA. 137+00.00

MATCHLINE STA. 150+00.00

MATCHLINE STA. 314+00.00

PR ℄ GRASS LAKE ROAD

PR ℄ US ROUTE 45

PR ℄ HAVEN LANE

PR ℄ MILLBURN ROAD

EX ℄ GRASS LAKE ROAD

PR ROW

EX ROW

SEE NOTE 1

SEE NOTES 1 & 2

PR ℄ US ROUTE 45 STA. 145+64.91 =
PR GRASS LAKE RD STA. 310+11.35

EX (2) 10" FORCEMAINS
CONTRACTOR TO PROTECT
DURING CONSTRUCTION
OF PROPOSED STORM SEWER

DRAINAGE SYMBOLS

EXISTING	PROPOSED		PROPOSED	
		STORM SEWER LINE		ROADWAY DITCH FLOW
		UNDERDRAIN LINE	X-XX	PROPOSED STORM SEWER PIPE NUMBER
		STORM SEWER MANHOLE	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
		CATCH BASIN	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER
		INLET		
		STORM SEWER END SECTION		

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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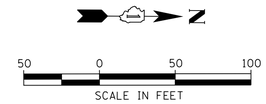
PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

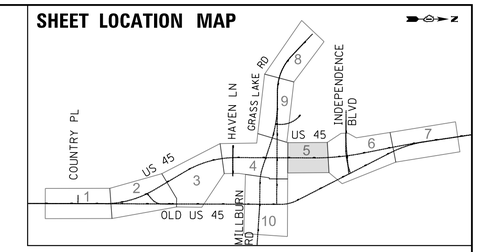
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

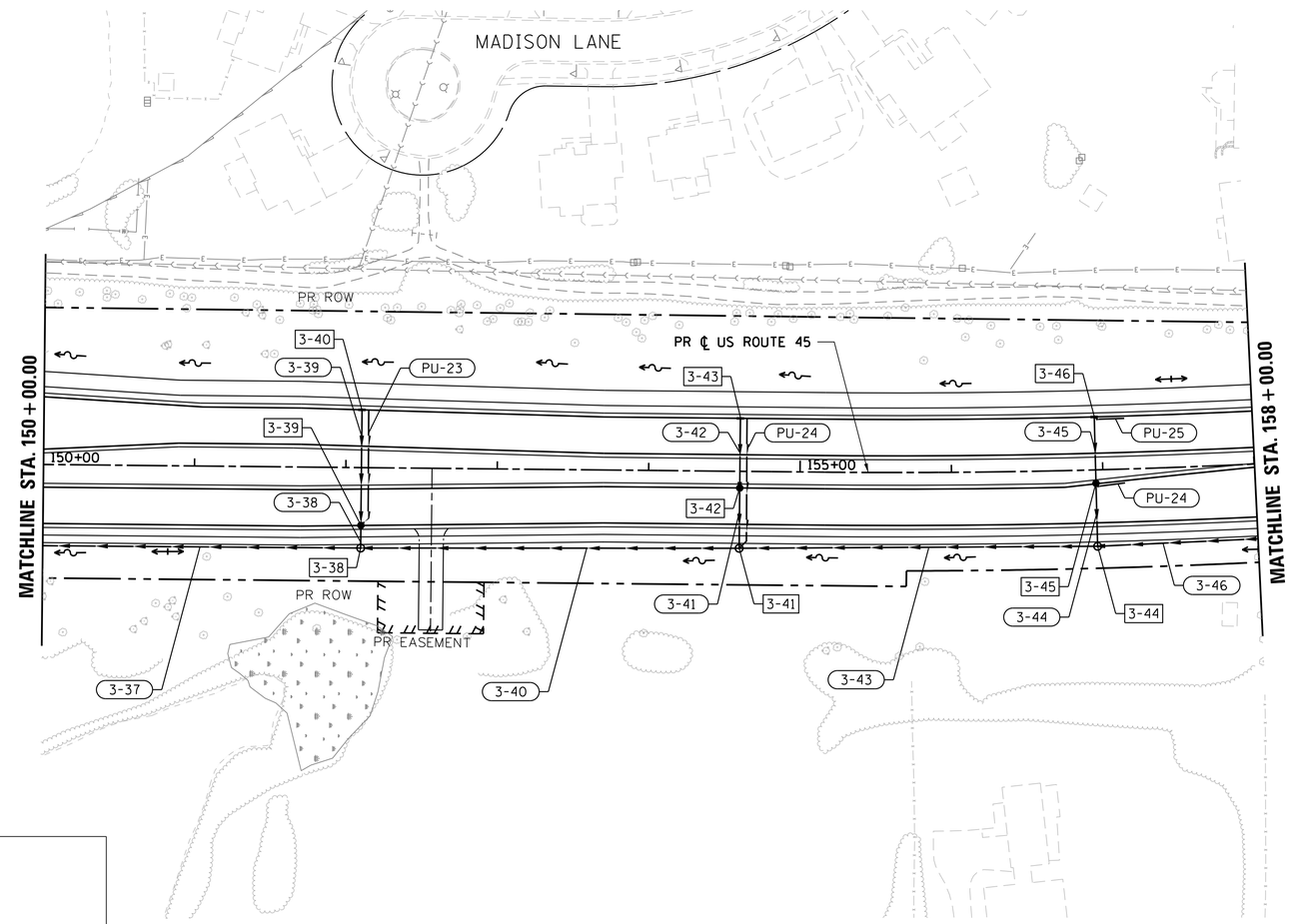
PROPOSED DRAINAGE PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 10 SHEETS | STA. 137+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	169
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		







DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

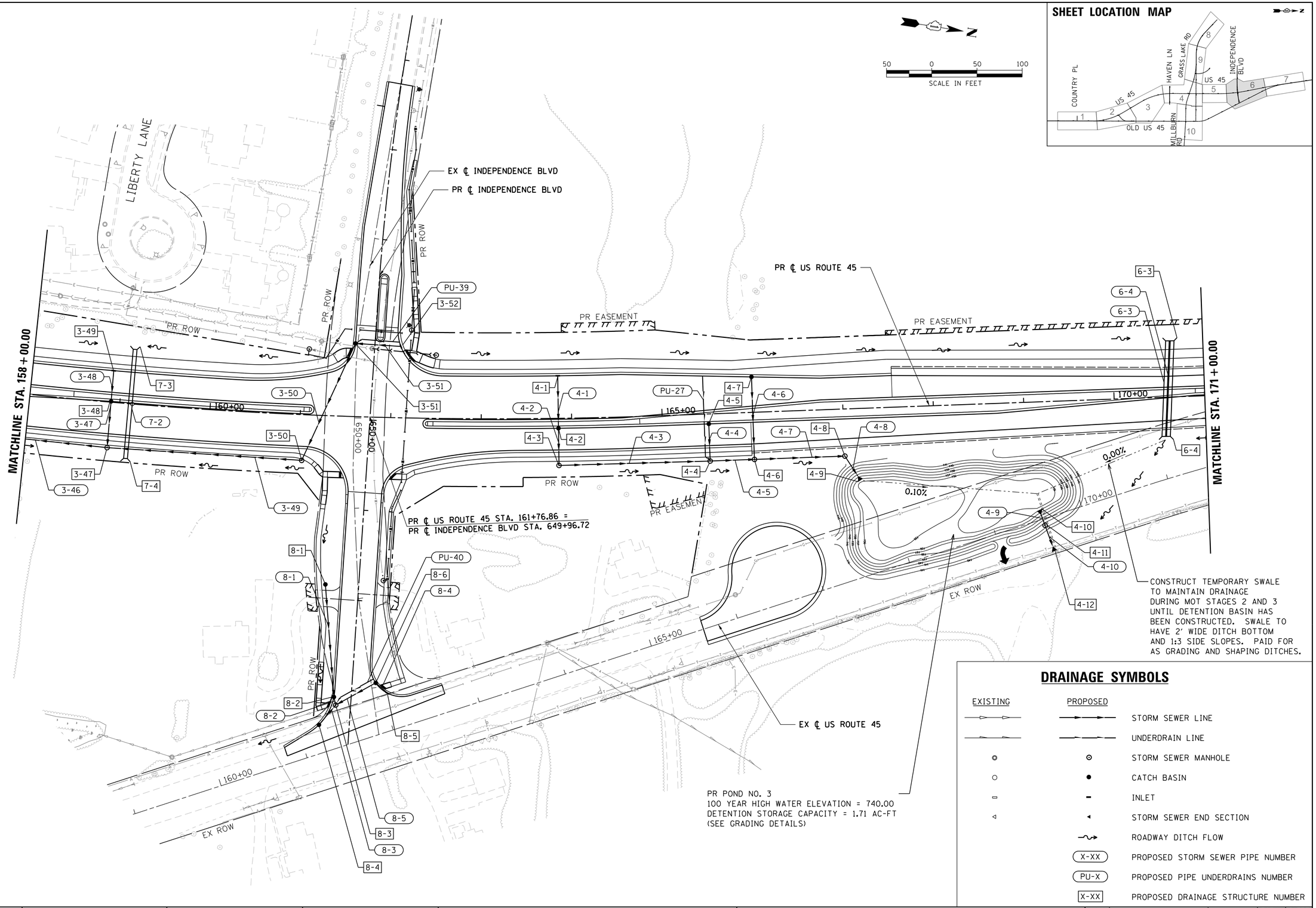
PROPOSED DRAINAGE PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 5 OF 10 SHEETS | STA. 150+00 TO STA.158+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	170

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
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GRADES CHECKED		
B.M. NOTED		
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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN
US ROUTE 45

SCALE: 1"=50' | SHEET 6 OF 10 SHEETS | STA. 158+00 TO STA. 171+00

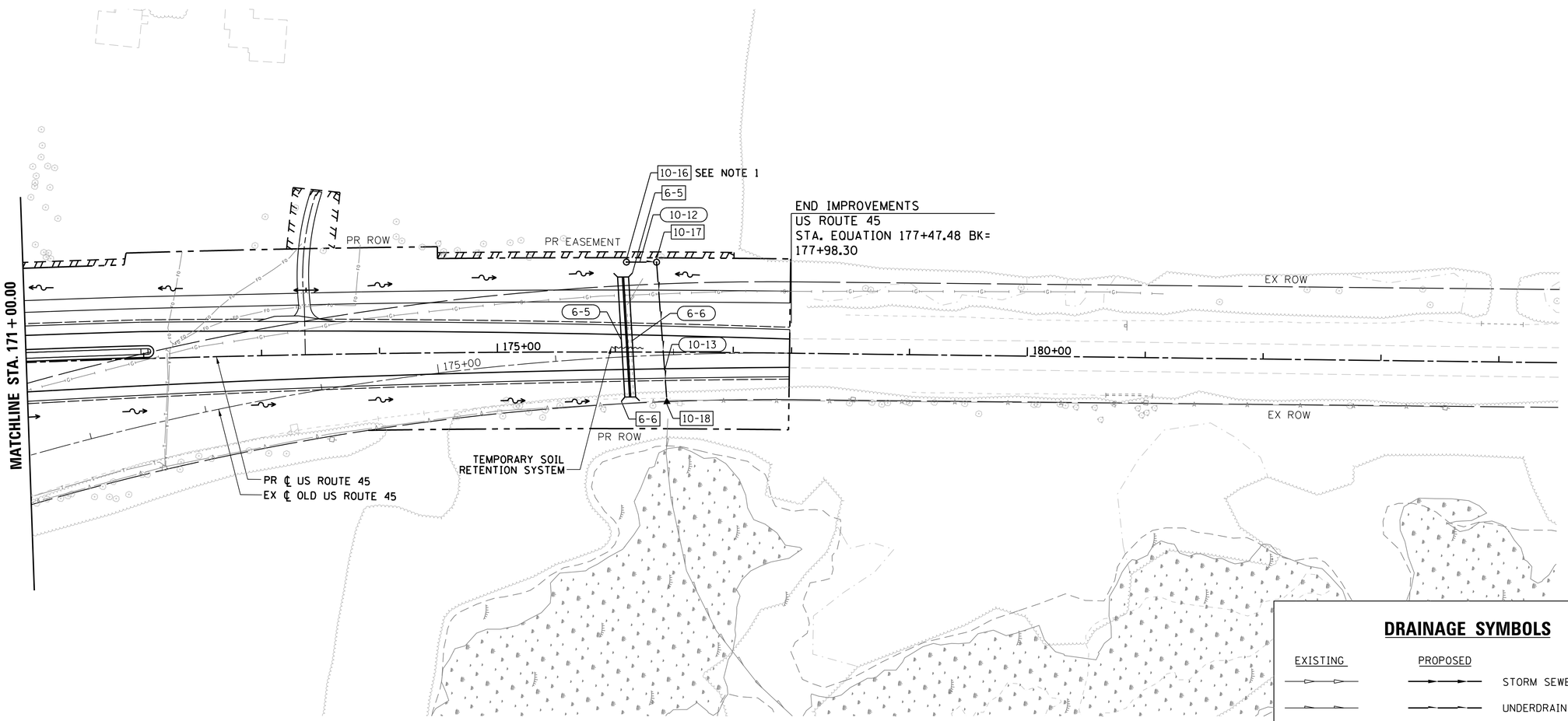
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	171

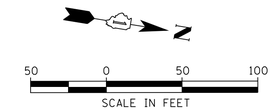
CONTRACT NO. 60T75

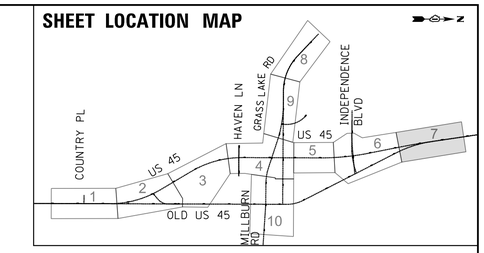
ILLINOIS FED. AID PROJECT

NOTE:

1. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATION BEFORE ORDERING STRUCTURE 10-16.







DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CHKD		
NOTE BOOK NO.		

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

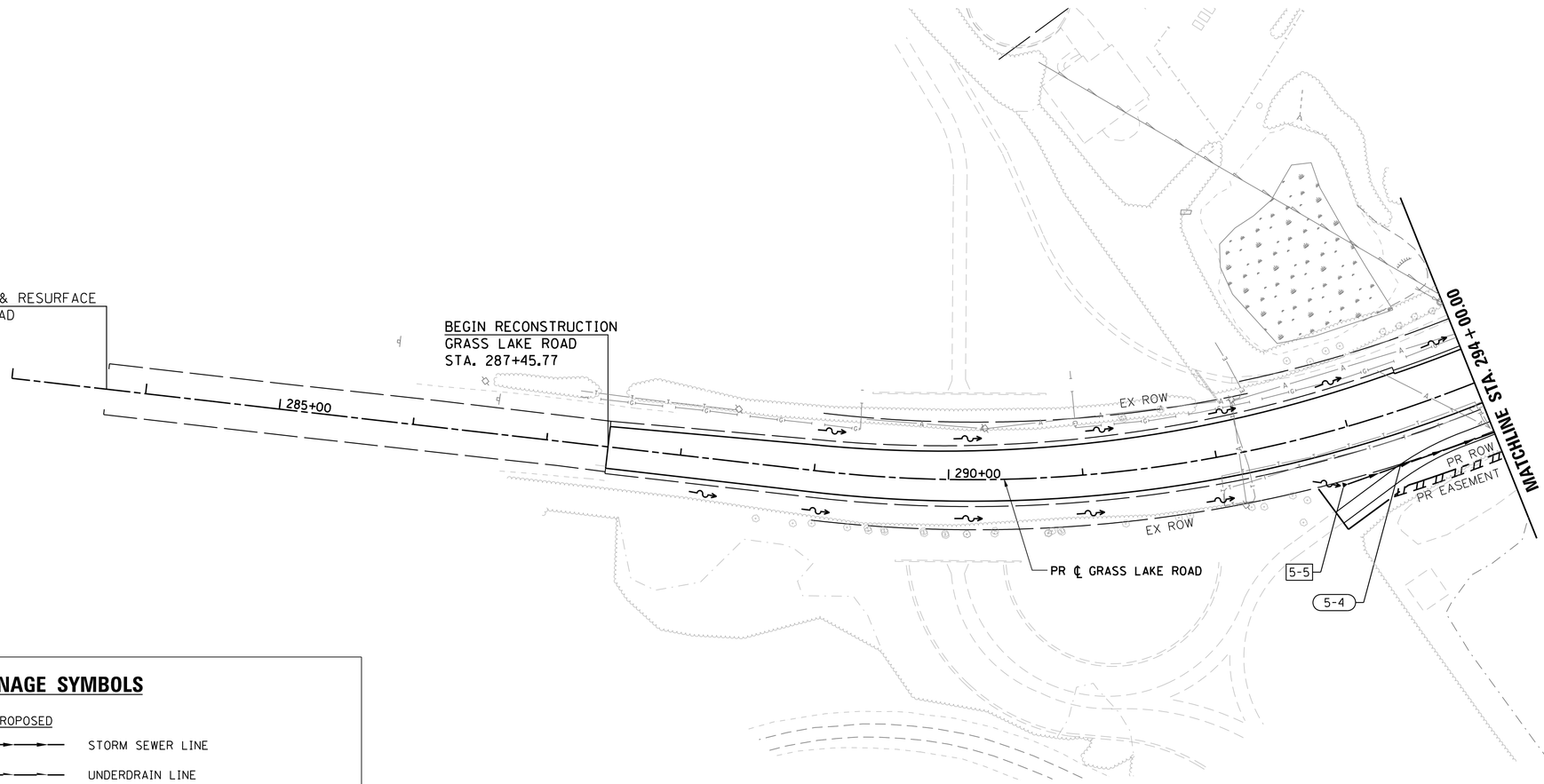
PROPOSED DRAINAGE PLAN
US ROUTE 45

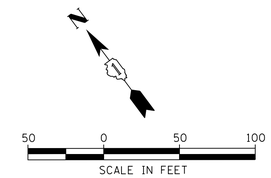
SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 171+00 TO STA.178+00

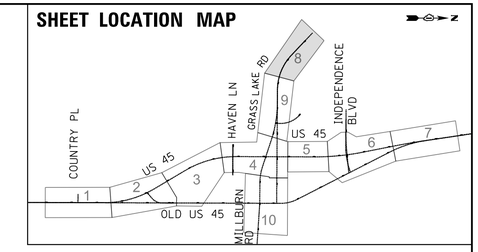
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	172

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT







DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK NO.		

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PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PLAN
GRASS LAKE ROAD

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 287+50 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	173
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

NOTES:

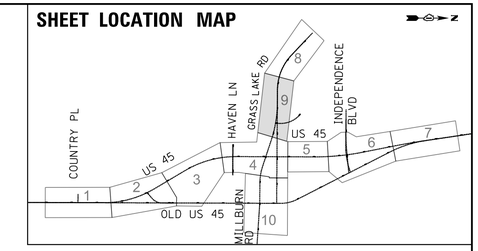
1. THE CONTRACTOR SHALL LOCATE AND DETERMINE THE EXISTING DRAIN TILE INVERT ELEVATIONS. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND PROVIDE THE STATION, OFFSET AND INVERT ELEVATION OF THE EXISTING DRAIN TILE IN WRITING. MATERIALS SHALL NOT BE ORDERED FOR STORM SEWER NETWORK #3 OR DRAIN TILE NETWORK #10 WITHOUT THE ENGINEER'S APPROVAL.

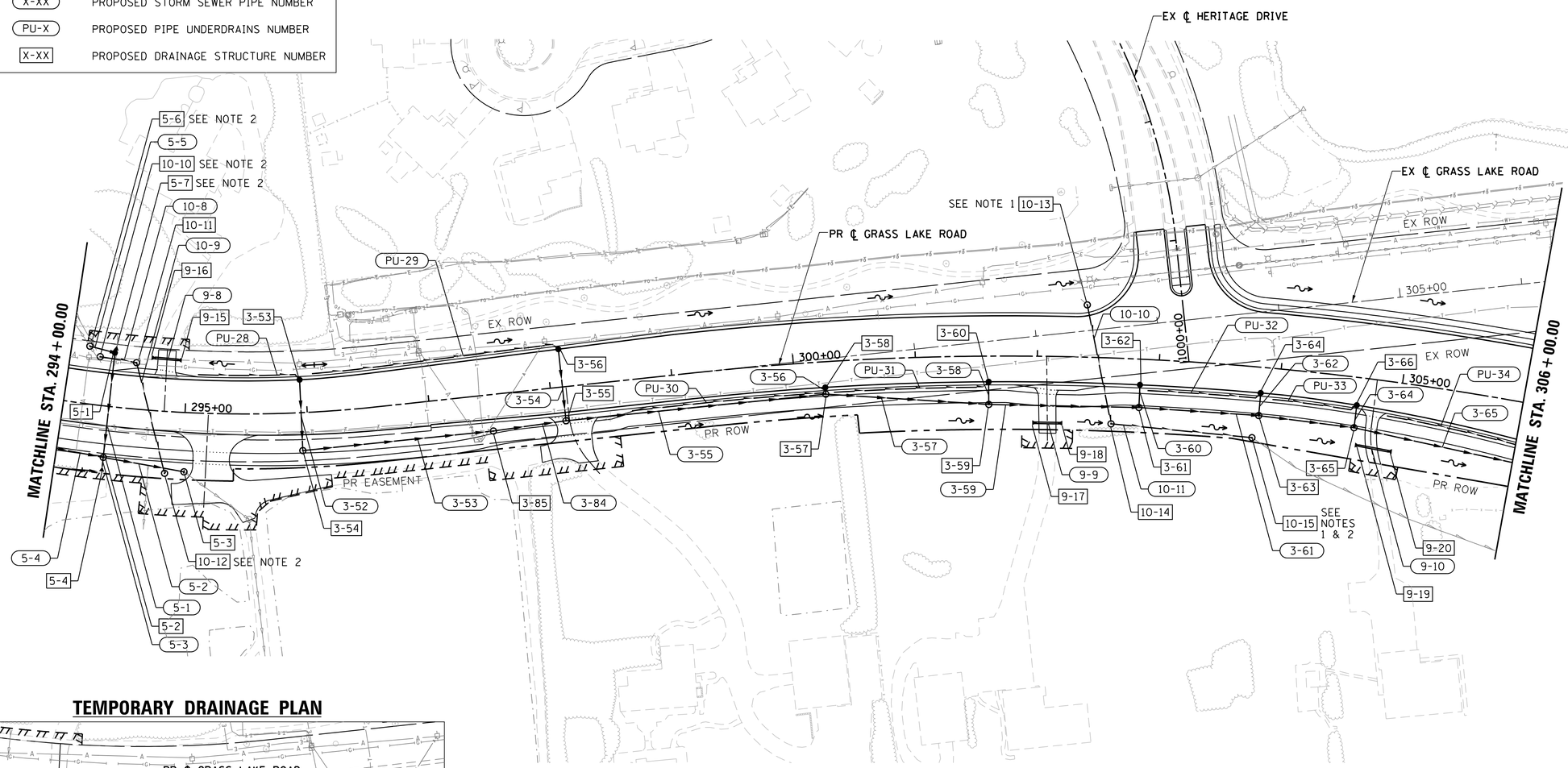
2. THE CONTRACTOR TO VERIFY EXISTING INVERT ELEVATION BEFORE ORDERING STRUCTURE.

N

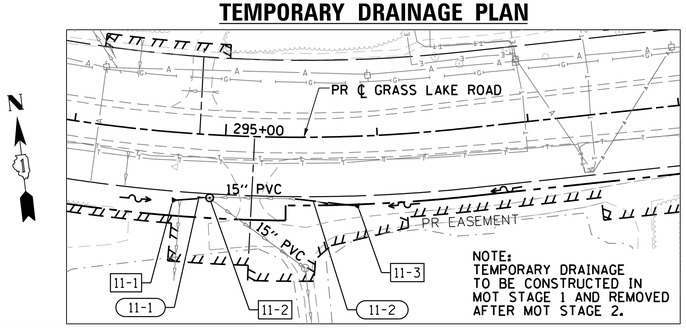
50 0 50 100
SCALE IN FEET

SHEET LOCATION MAP





TEMPORARY DRAINAGE PLAN



NOTE:
TEMPORARY DRAINAGE TO BE CONSTRUCTED IN MOT STAGE 1 AND REMOVED AFTER MOT STAGE 2.

PLAN	BY	DATE
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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

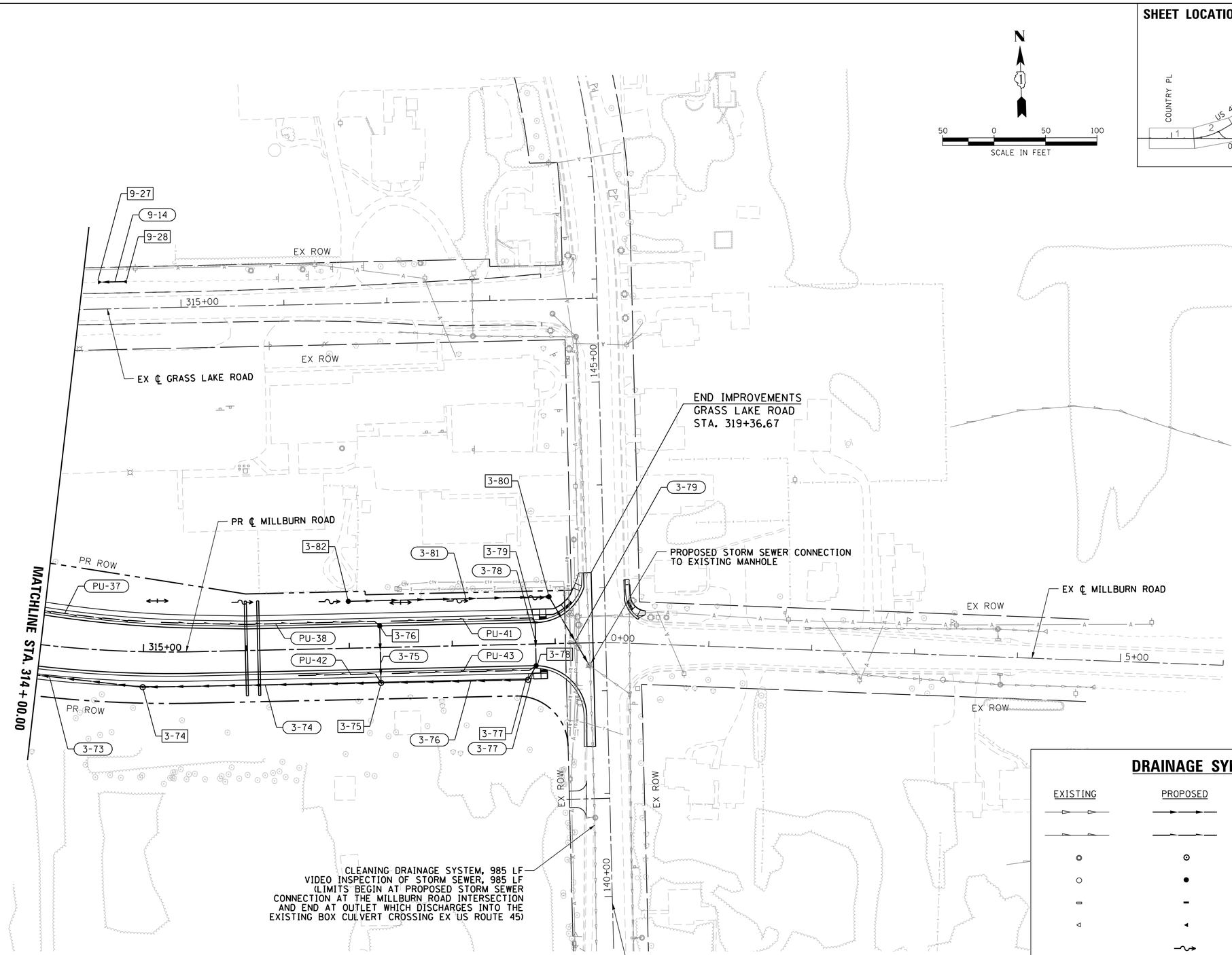
PROPOSED DRAINAGE PLAN
GRASS LAKE ROAD

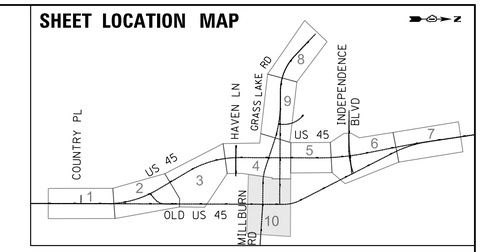
SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 294+00 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	174

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





DRAINAGE SYMBOLS

EXISTING	PROPOSED	
		STORM SEWER LINE
		UNDERDRAIN LINE
		STORM SEWER MANHOLE
		CATCH BASIN
		INLET
		STORM SEWER END SECTION
		ROADWAY DITCH FLOW
	X-XX	PROPOSED STORM SEWER PIPE NUMBER
	PU-X	PROPOSED PIPE UNDERDRAINS NUMBER
	X-XX	PROPOSED DRAINAGE STRUCTURE NUMBER

PLAN	BY	DATE
SURVEYED		
PLOTTED		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

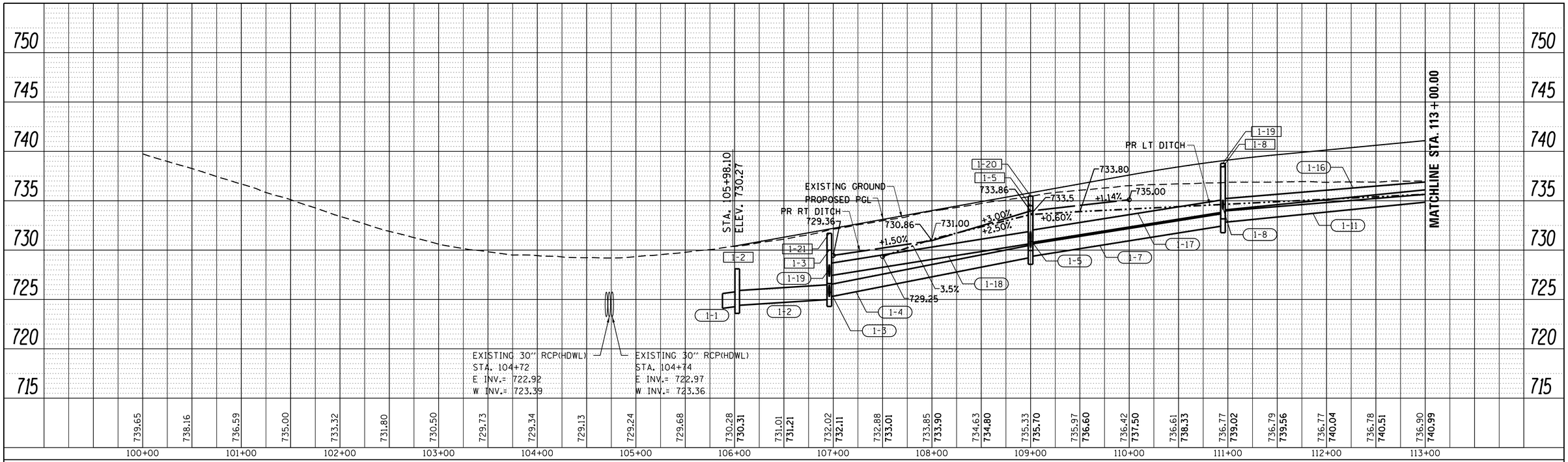
PROPOSED DRAINAGE PLAN
GRASS LAKE ROAD

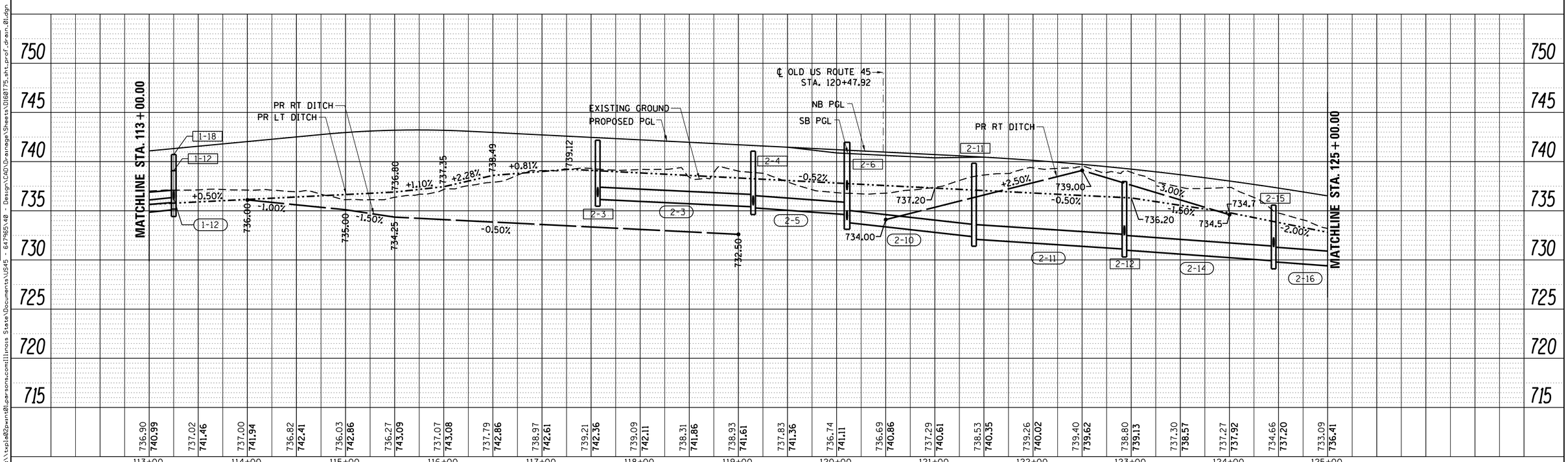
SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	175

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

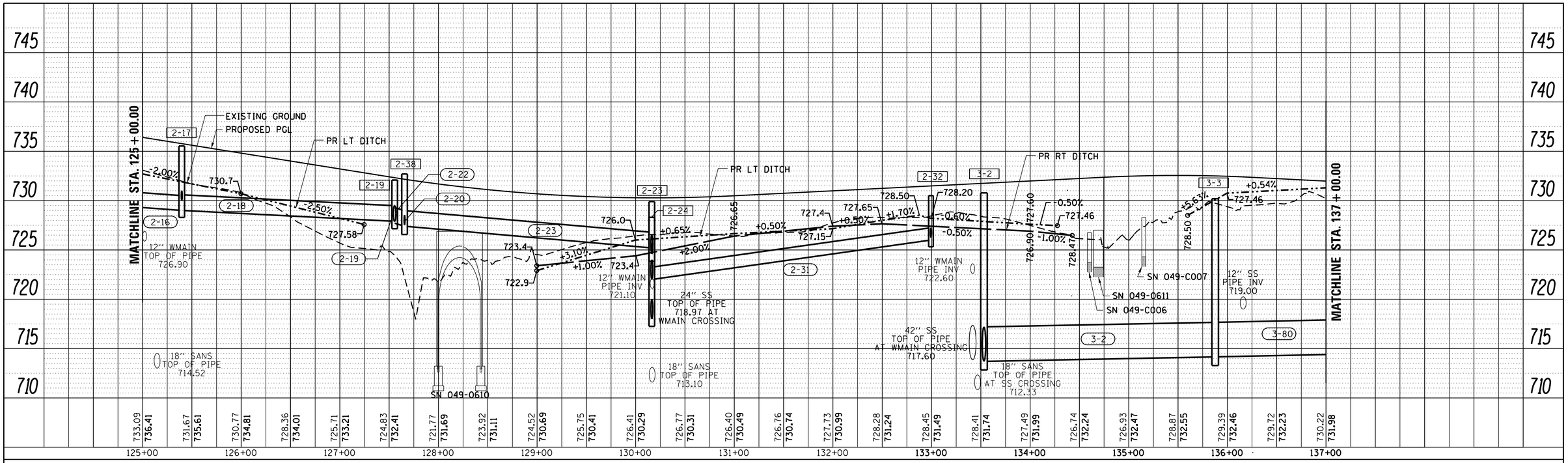
PROPOSED DRAINAGE PROFILE
US ROUTE 45

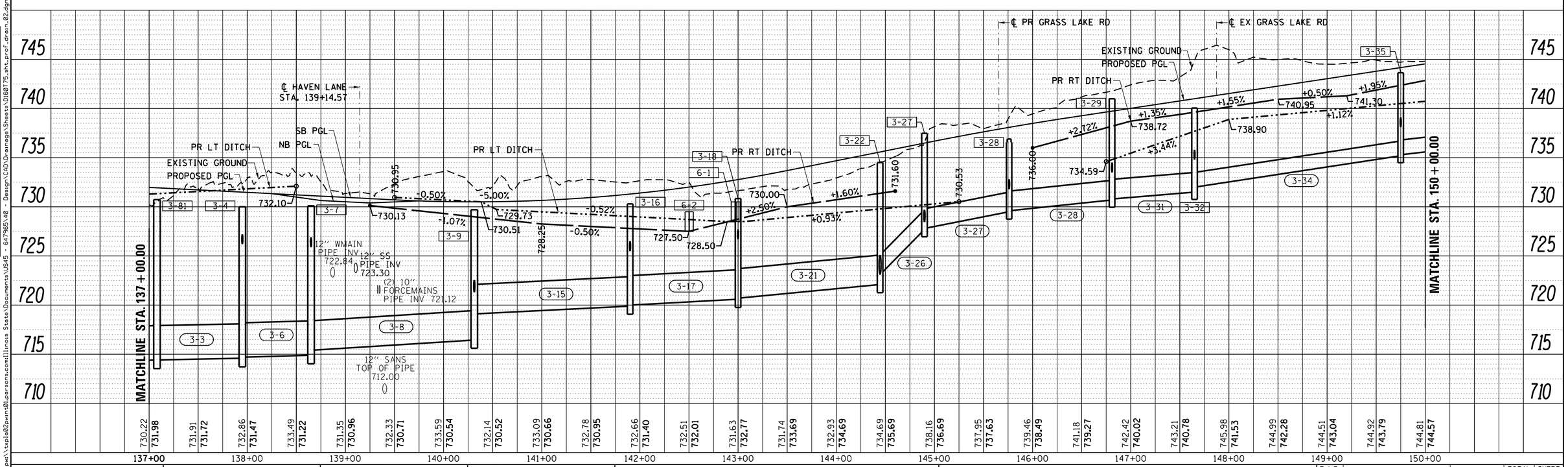
1"=50' | SHEET 1 OF 4 SHEETS | STA. 100+00 TO STA.125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	176

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PROFILE
US ROUTE 45

1"=50' | SHEET 2 OF 4 SHEETS | STA. 125+00 TO STA. 150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	177

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

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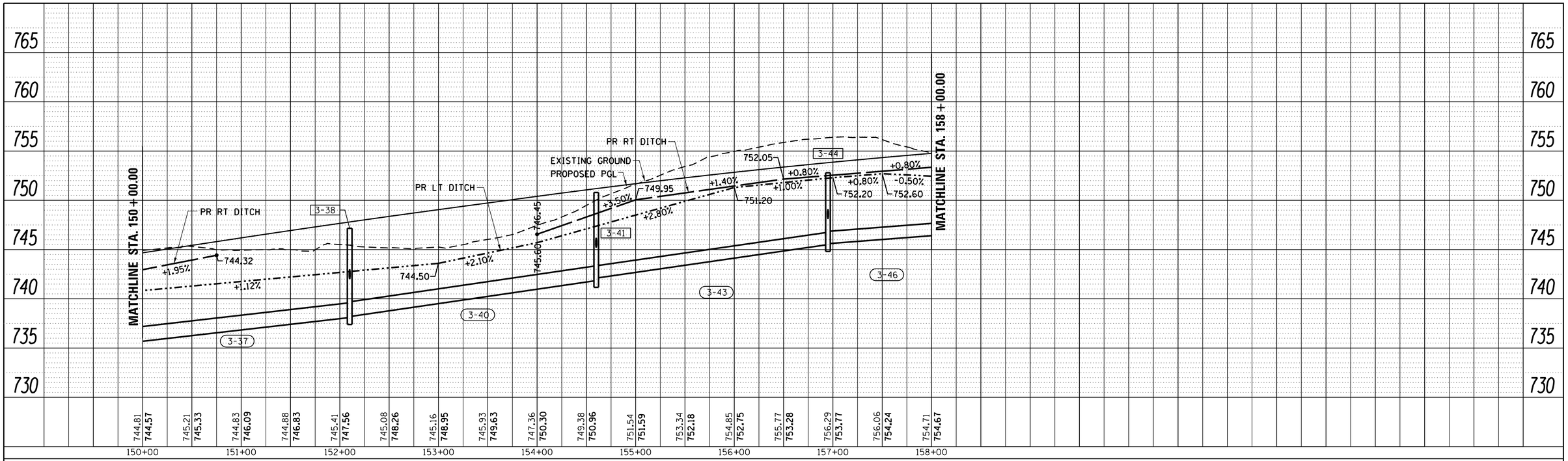

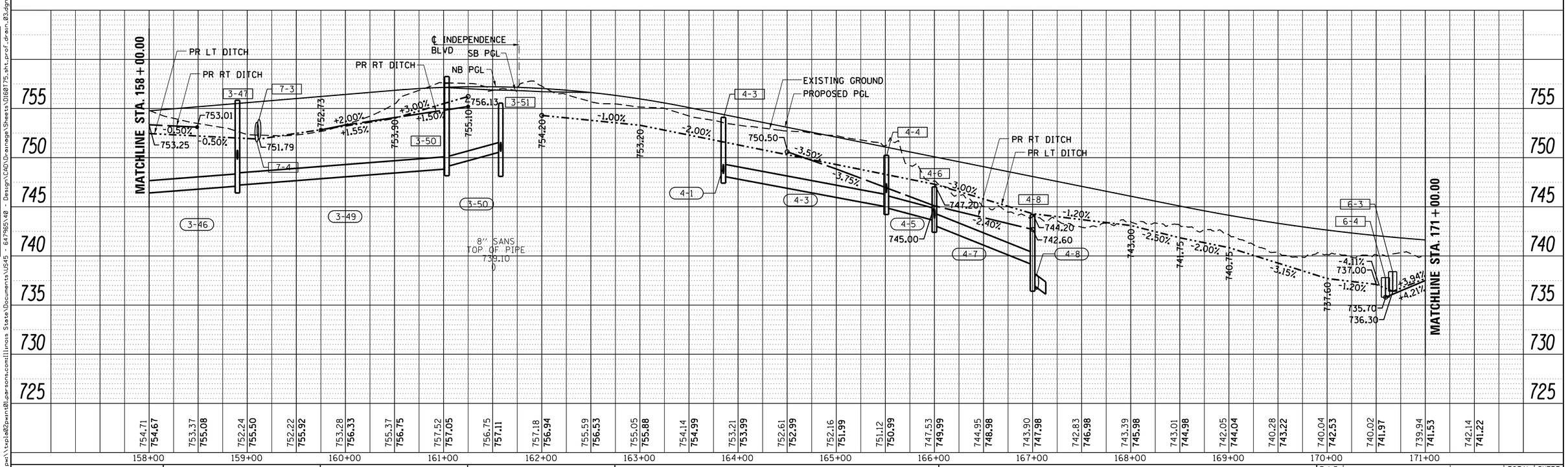

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PLOT DATE = 12/6/2017	DATE - 02/02/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PROFILE
US ROUTE 45

1"=50' | SHEET 3 OF 4 SHEETS | STA. 150+00 TO STA. 171+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	178

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN	BY	DATE
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ALIGNMENT CHECKED		
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NOTE BOOK NO.		

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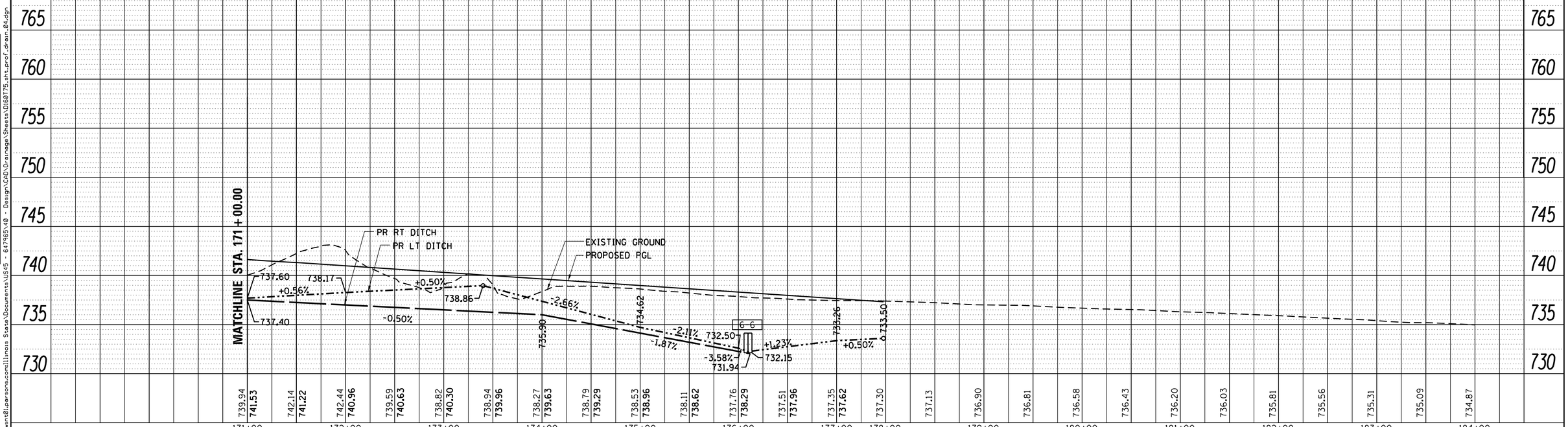

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PLOT DATE = 12/6/2017	DATE - 02/02/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PROFILE
US ROUTE 45

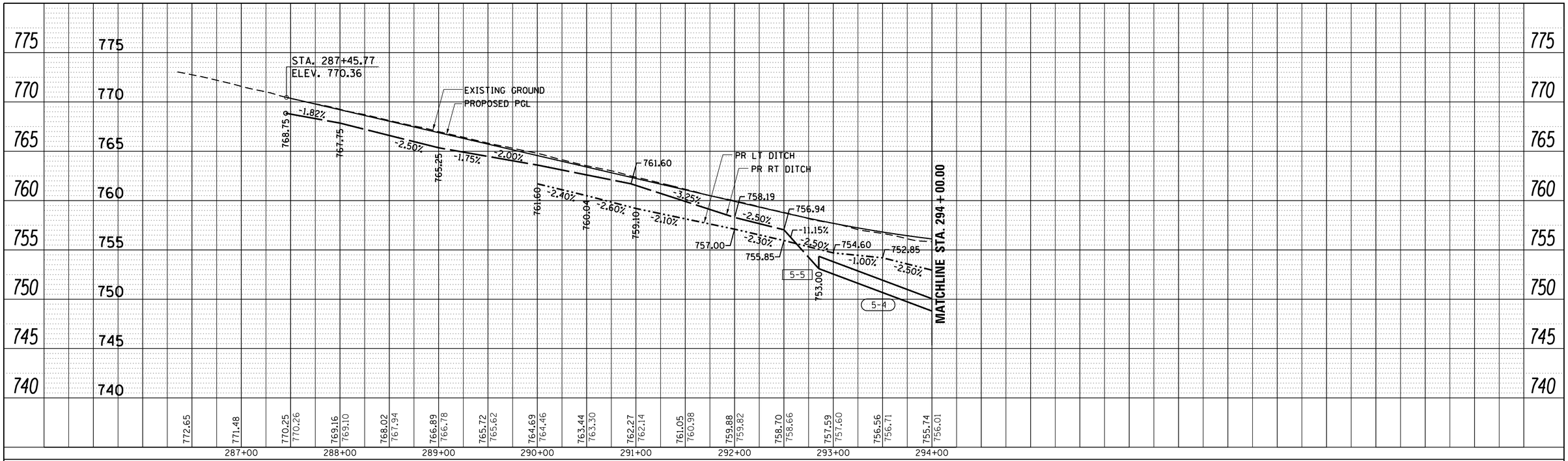
1"=50' | SHEET 4 OF 4 SHEETS | STA. 171+00 TO STA. 178+00

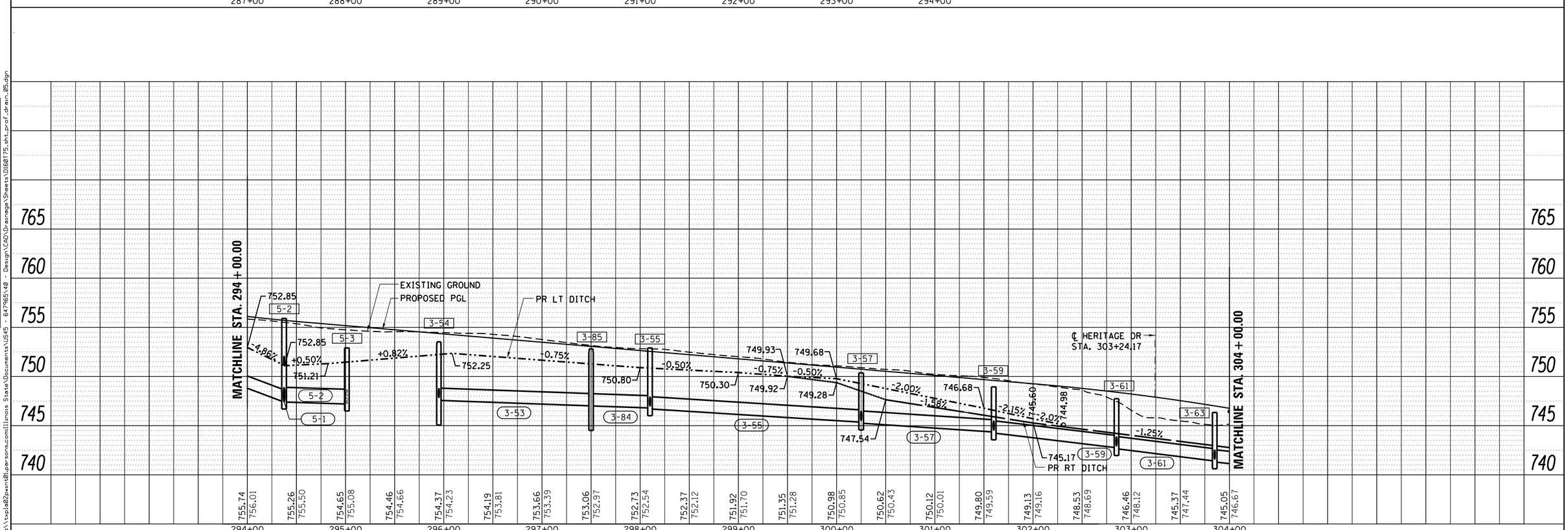
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	179

PRELIMINARY

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT





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PLOT DATE = 12/6/2017	DATE - 02/02/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PROFILE
GRASS LAKE ROAD

1"=50' | SHEET 1 OF 2 SHEETS | STA. 287+50 TO STA. 304+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	180

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD — NOTE BOOK NO. — BY — DATE

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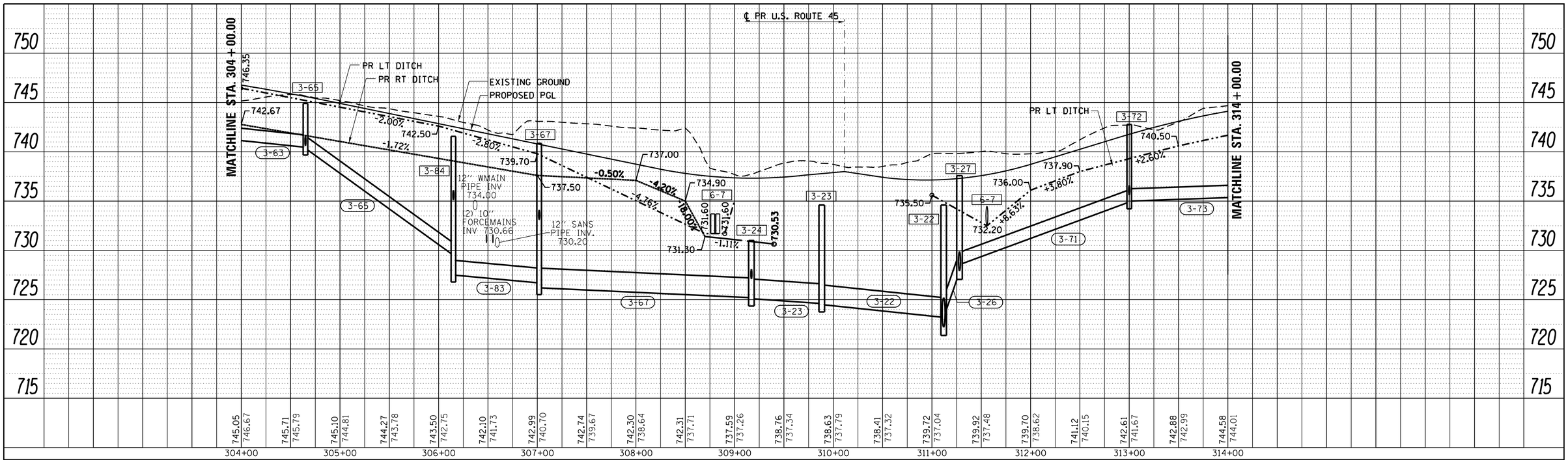

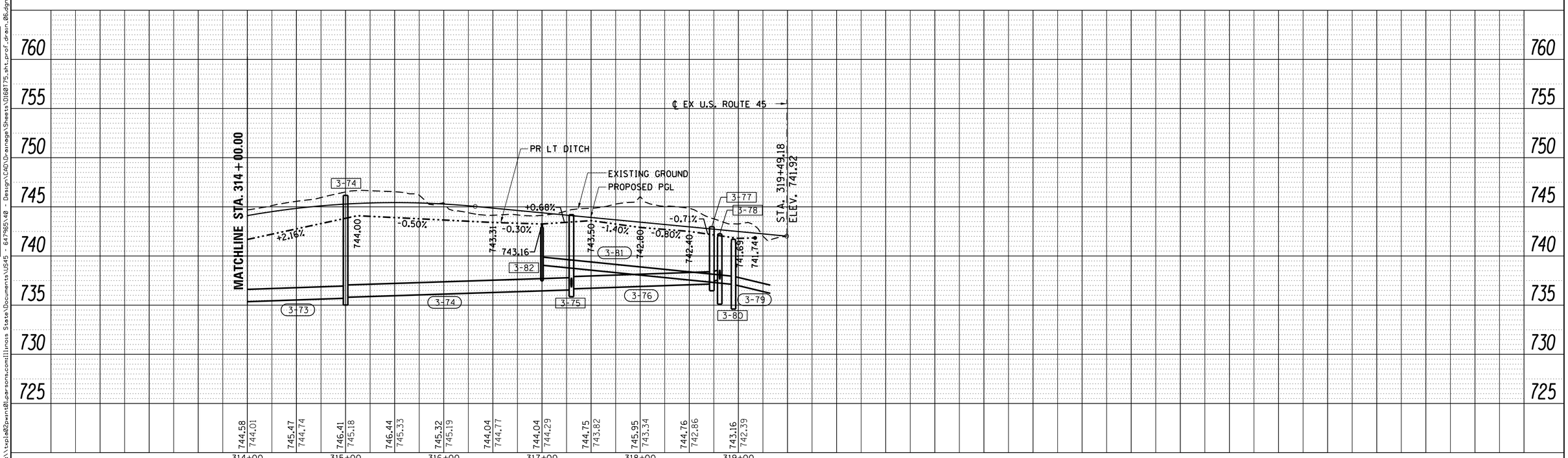

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PLOT DATE = 12/6/2017	DATE - 02/02/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

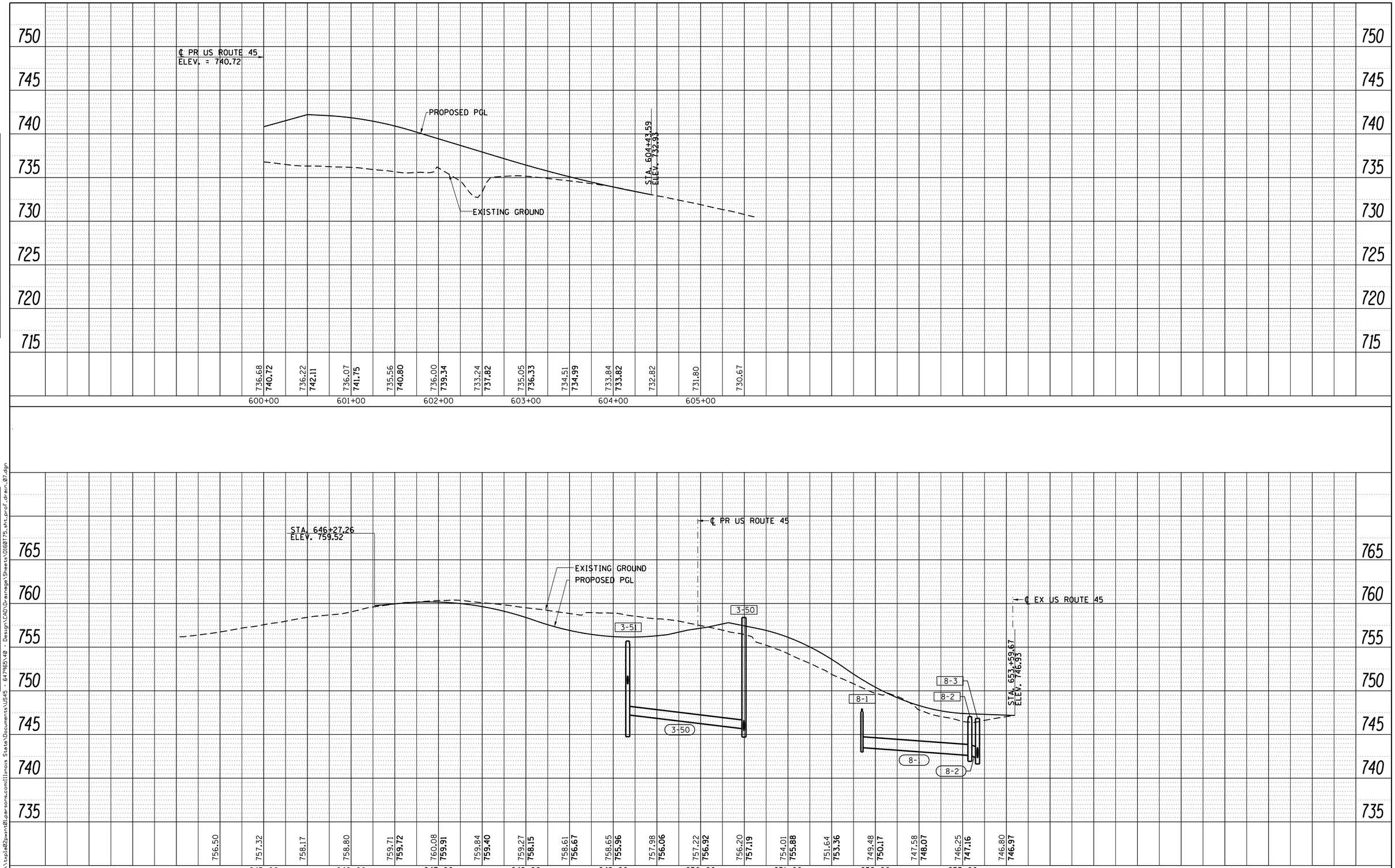
PROPOSED DRAINAGE PROFILE
GRASS LAKE ROAD

1"=50' | SHEET 2 OF 2 SHEETS | STA. 304+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	181

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT



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PLOT DATE = 12/6/2017	DATE - 02/02/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE PROFILE
OLD US ROUTE 45 & INDEPENDENCE BLVD

1"=50' | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	182

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

REMOVAL CALLOUT	PROPOSED ALIGNMENT	PAY ITEM	FROM		TO		PIPE		MATERIAL	STRUCTURE
			STATION	OFFSET	STATION	OFFSET	LENGTH (FT)	DIA (IN)		
A1	EX US 45	X5010523	107+01	48.8′ LT				24	RCP	END SECTION
A2	EX US 45	50105220	109+71	30.6′ RT	110+13	30.9′ RT	42	15	CMP	
A3	EX US 45	50105220	118+26	32.8′ LT	118+69	33.1′ LT	43	15	CMP	
A4	EX US 45	50105220	120+86	31.0′ LT	121+25	30.9′ LT	39	15	CMP	
A5	EX US 45	55100700	122+01	31.5′ LT	124+09	25.2′ LT	208	15	CMP	
A6	EX US 45	60500040	124+09	25.2′ LT						MANHOLE
A7	EX US 45	55100700	124+09	25.2′ LT	124+52	30.6′ LT	43	15	CMP	
A8	PR US 45	50105220	142+65	16.2′ RT	142+61	55.7′ RT	40	15	CMP	
A9	PR US 45	50105220	142+69	16.2′ RT	142+63	55.7′ RT	40	15	PVC	
A10	PR US 45	50105220	143+56	21.5′ RT	143+69	57.4′ RT	40	18	CMP	
A11	INDEPENDENCE BLVD	60500060	650+50	0.50′ RT						INLET
A12	INDEPENDENCE BLVD	55100400	650+50	0.50′ RT	650+52	29.4′ RT	29	10	RCP	
A13	INDEPENDENCE BLVD	60500050	650+52	29.4′ RT						CATCH BASIN
A14	INDEPENDENCE BLVD	55100500	650+52	29.4′ RT	650+64	45.1′ RT	20	12	RCP	
A15	INDEPENDENCE BLVD	60500040	650+64	45.1′ RT						MANHOLE
A16	INDEPENDENCE BLVD	55100500	650+64	45.1′ RT	651+84	46.0′ RT	118	12	RCP	
A17	INDEPENDENCE BLVD	60500040	651+84	46.0′ RT						MANHOLE
A18	INDEPENDENCE BLVD	55100500	651+84	460.0′ RT	653+17	16.1′ RT	139	12	RCP	
A19	INDEPENDENCE BLVD	60500040	653+17	16.1′ RT						MANHOLE
A20	INDEPENDENCE BLVD	55100500	653+17	16.1′ RT	653+13	9.5′ RT	8	12	RCP	
A21	INDEPENDENCE BLVD	60500050	653+13	9.5′ RT						CATCH BASIN
A22	INDEPENDENCE BLVD	55100500	653+13	9.5′ RT	652+87	60.2′ LT	75	12	RCP	
A23	INDEPENDENCE BLVD	60500050	652+87	60.2′ LT						CATCH BASIN
A24	INDEPENDENCE BLVD	55100500	652+87	60.2′ LT	652+90	68.0′ LT	9	12	RCP	
A25	INDEPENDENCE BLVD	60500060	652+90	68.0′ LT						INLET
A26	INDEPENDENCE BLVD	55100400	653+19	11.4′ RT	653+13	9.5′ RT	6	10	RCP	
A27	INDEPENDENCE BLVD	60500060	653+19	11.4′ RT						INLET
A28	PR US 45	50105220	169+58	29.7′ LT	169+58	34.9′ RT	65	18	CMP	
A29	PR US 45	50105220	173+00	5.5′ RT	173+55	5.4′ LT	55	15	CMP	
A30	PR US 45	50105220	176+13	32.6′ LT	176+13	36.8′ RT	70	27	CMP	
A31	PR GRASS LAKE	50105220	291+87	27.8′ LT	292+10	28.3′ LT	22	15	CMP	
A32	PR GRASS LAKE	50105220	292+25	27.4′ RT	292+47	27.2′ RT	23	15	CMP	
A33	PR GRASS LAKE	55100500	294+29	32.7′ LT	294+20	42.6′ LT	14	12	RCP	
A34	PR GRASS LAKE	50105220	294+37	33.8′ LT	294+39	46.2′ LT	13	12	CMP	
A35	PR GRASS LAKE	50105220	294+69	28.0′ LT	294+98	28.9′ LT	28	15	CMP	
A36	PR GRASS LAKE	60500050	294+37	29.0′ LT						CATCH BASIN
A37	PR GRASS LAKE	50105220	294+37	29.1′ LT	294+38	38.1′ RT	68	18	PVC	
A38	PR GRASS LAKE	50105220	294+94	41.1′ RT	295+49	37.1′ RT	58	15	PVC	
A39	PR GRASS LAKE	50105220	301+90	16.0′ RT	302+20	10.6′ RT	30	15	CMP	
A40	PR GRASS LAKE	50105220	304+94	29.3′ LT	304+78	36.2′ LT	30	15	CMP	
A41	EX GRASS LAKE	50105220	309+93	26.0′ RT	310+23	25.1′ RT	30	15	CMP	
A42	EX GRASS LAKE	50105220	310+55	25.7′ LT	310+82	25.7′ LT	27	15	PVC	
A43	PR US 45	50105220	142+68	13.0′ RT	142+81	8.2′ LT	25	15	PVC	
A44	PR US 45	50105220	142+57	38.1′ RT	142+64	14.0′ RT	25	15	CMP	
TEMPORARY DRAINAGE CULVERTS REMOVALS										
	PR GRASS LAKE	60500040	294+92	41.7′ LT						MANHOLE
	PR GRASS LAKE	55100700	294+68	45.0′ RT	294+92	41.7′ RT	25	15	CMP	
	PR GRASS LAKE	55100700	295+46	40.7′ RT	295+41	46.4′ RT	43	15	CMP	

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PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL SCHEDULE

SCALE: NS | SHEET 10 OF 10 SHEETS | STA. 314+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	183

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
1-1	105+88	79.1' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	–	724.00 NW (IN)
1-2	106+03	63.0' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	728.00	724.30 N (IN) 724.20 SE (OUT)
1-3	106+96	62.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	729.90	725.15 N (IN) 724.90 S (OUT) 725.15 W (IN)
1-4	106+96	30.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	731.44	726.99 E (OUT) 726.99 W (IN)
1-5	109+00	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	734.40	729.25 N (IN) 730.15 W (IN) 729.15 S (OUT)
1-6	109+00	35.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	735.22	731.02 E (OUT)
1-7	109+00	30.6' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	735.21	731.01 W (OUT)
1-8	110+95	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	738.34	732.70 N (IN) 733.30 W (IN) 732.35 S (OUT)
1-9	110+95	11.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	738.95	734.00 E (OUT) 734.00 S (IN)
1-10	110+95	34.5' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	738.47	734.27 W (OUT)
1-11	110+62	11.0' RT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	738.51	734.31 N (OUT)
1-12	113+25	58.7' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	738.97	735.25 W (IN) 735.00 S (OUT)
1-13	113+25	11.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	741.22	737.02 E (OUT)
1-14	113+25	35.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	740.40	736.20 W (OUT)
1-15	104+95	92.8' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	–	724.00 SW (OUT)
1-16	104+86	87.3' RT	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	729.00	723.90 NE (IN) 723.90 S (OUT)
1-17	104+71	86.1' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	–	723.80 N (IN)
1-18	113+25	41.0' LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	740.62	736.00 E (IN) 735.75 S (OUT)
1-19	110+95	40.9' LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	738.68	734.00 E (IN) 733.85 N (IN) 733.75 S (OUT)
1-20	109+00	38.2' LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	735.37	730.80 E (IN) 730.65 N (IN) 730.55 S (OUT)
1-21	106+96	37.6' LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	731.60	727.30 N (IN) 727.20 E (OUT)

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
1-1	1-2	1-1	STORM SEWERS, CLASS A, TYPE 1 18"	20	0.98%	–
1-2	1-3	1-2	STORM SEWERS, CLASS A, TYPE 1 18"	89	0.67%	–
1-3	1-4	1-3	STORM SEWERS, CLASS A, TYPE 2 15"	89	2.08%	18
1-4	1-5	1-3	STORM SEWERS, CLASS A, TYPE 2 15"	200	2.00%	20
1-5	1-6	1-5	STORM SEWERS, CLASS A, TYPE 1 12"	14	6.18%	5
1-6	1-7	1-20	STORM SEWERS, CLASS A, TYPE 2 12"	5	4.58%	2
1-7	1-8	1-5	STORM SEWERS, CLASS A, TYPE 2 15"	191	1.62%	–
1-8	1-9	1-8	STORM SEWERS, CLASS A, TYPE 2 12"	37	1.89%	10
1-9	1-10	1-19	STORM SEWERS, CLASS A, TYPE 2 12"	3	7.97%	1
1-10	1-11	1-9	STORM SEWERS, CLASS A, TYPE 2 12"	30	1.03%	8
1-11	1-12	1-8	STORM SEWERS, CLASS A, TYPE 1 15"	231	1.00%	–
1-12	1-13	1-12	STORM SEWERS, CLASS A, TYPE 1 12"	45	3.96%	9
1-13	1-14	1-18	STORM SEWERS, CLASS A, TYPE 2 12"	3	6.60%	1
1-14	1-15	1-16	STORM SEWERS, CLASS A, TYPE 1 15"	8	1.25%	–
1-15	1-16	1-17	STORM SEWERS, CLASS A, TYPE 1 15"	12	0.84%	–
1-16	1-18	1-19	STORM SEWERS, CLASS A, TYPE 2 15"	222	0.86%	58
1-17	1-19	1-20	STORM SEWERS, CLASS A, TYPE 2 15"	191	1.62%	–
1-18	1-20	1-21	STORM SEWERS, CLASS A, TYPE 2 15"	200	1.63%	–
1-19	1-21	1-4	STORM SEWERS, CLASS A, TYPE 2 15"	4	5.87%	1

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PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 1 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	184
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
2-1	117+00	35.1' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	741.79	737.59 E (OUT)
2-2	117+00	0.5' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	742.26	737.20 W (IN) 737.20 NE (OUT)
2-3	117+57	64.3' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	742.07	736.30 SW (IN) 736.05 N (OUT)
2-4	119+15	67.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	740.96	735.30 S (IN) 735.20 NW (OUT) 735.45 W (IN)
2-5	119+15	1.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	741.37	737.17 E (OUT)
2-6	120+11	65.7' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	741.86	734.50 SE (IN) 733.70 NW (OUT) 733.95 SW (IN) 737.00 N (IN)
2-7	120+49	84.2' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	741.80	737.60 S (OUT)
2-8	119+90	1.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	741.00	734.70 W (IN) 734.70 NE (OUT) 734.70 S (IN)
2-9	119+50	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	740.55	736.35 N (OUT)
2-10	120+23	42.5' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	739.53	735.16 N (IN) 735.16 E (OUT)
2-11	121+40	59.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	739.73	732.25 SE (IN) 732.00 NW (OUT)
2-12	122+93	53.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	737.87	731.00 SE (IN) 730.90 NW (OUT) 732.40 SW (IN)
2-13	122+93	11.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	739.20	734.00 NE (OUT) 734.00 SW (IN)
2-14	122+93	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	738.72	734.52 NE (OUT)
2-15	124+45	53.7' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	735.47	729.80 SE (IN) 729.70 NW (OUT) 731.20 SW (IN)
2-16	124+45	35.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	736.80	732.60 NE (OUT)
2-17	125+40	40.6' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	735.53	729.00 SE (IN) 729.00 NW (OUT) 730.00 SW (IN)
2-18	125+40	35.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	735.29	731.09 NE (OUT)
2-19	127+56	40.6' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	732.08	727.90 SE (IN) 727.90 SW (OUT)
2-20	127+56	35.0' RT	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	731.84	727.70 W (OUT) 727.70 NE (IN)

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
2-21	127+66	35.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	731.69	727.69 SE (IN) 727.69 NE (OUT)
2-22	126+95	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	732.81	728.61 NW (OUT)
2-23	130+17	0.0' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	729.90	725.20 SE (IN) 724.70 SW (IN) 724.60 NE (OUT)
2-24	130+17	53.3' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	728.30	718.00 E (OUT) 722.00 NW (IN) 722.00 SW (IN)
2-25	130+01	146.7' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	–	713.50 W (IN)
2-26	130+17	35.0' RT	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	728.54	723.70 SE (IN) 722.70 NE (OUT) 722.70 SW (IN) 723.70 NW (IN)
2-27	130+17	11.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	729.36	724.80 SE (IN) 724.80 NE (OUT) 724.80 NW (IN)
2-28	129+82	11.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	729.39	725.19 NW (OUT)
2-29	129+82	35.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	728.57	724.37 NW (OUT)
2-30	130+50	11.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	730.31	726.11 SE (OUT)
2-31	130+50	35.0' RT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	729.49	725.29 SE (OUT)
2-32	133+00	58.0' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.50	726.25 W (IN) 726.00 SE (OUT)
2-33	133+00	36.2' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	730.67	726.47 W (IN) 726.47 E (OUT)
2-34	133+00	12.3' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	731.49	727.29 E (OUT)
2-35	131+26	307.9' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	–	713.50 E (OUT)
2-36	131+00	354.9' RT	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	725.00	713.00 W (IN) 713.00 E (OUT)
2-37	129+43	567.9' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	–	712.00 W (IN)
2-38	127+66	0.0'	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	732.70	727.54 SW (IN) 727.40 E (IN) 727.40 NW (OUT)
2-39	120+75	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	739.59	735.39 S (OUT)

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USER NAME = 35361	DESIGNED DW	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 2 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	185

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
2-1	2-1	2-2	STORM SEWERS, CLASS A, TYPE 2 12"	33	1.19%	7
2-2	2-2	2-3	STORM SEWERS, CLASS A, TYPE 2 12"	82	1.10%	12
2-3	2-3	2-4	STORM SEWERS, CLASS A, TYPE 2 15"	160	0.47%	-
2-4	2-5	2-4	STORM SEWERS, CLASS A, TYPE 2 12"	65	2.64%	13
2-5	2-4	2-6	STORM SEWERS, CLASS A, TYPE 2 15"	94	0.74%	-
2-6	2-7	2-6	STORM SEWERS, CLASS A, TYPE 2 12"	40	1.48%	4
2-7	2-8	2-6	STORM SEWERS, CLASS A, TYPE 2 12"	65	1.15%	51
2-8	2-10	2-8	STORM SEWERS, CLASS A, TYPE 2 12"	49	0.95%	14
2-9	2-9	2-8	STORM SEWERS, CLASS A, TYPE 2 12"	49	3.35%	15
2-10	2-6	2-11	STORM SEWERS, CLASS A, TYPE 2 15"	129	1.12%	103
2-11	2-11	2-12	STORM SEWERS, CLASS A, TYPE 2 18"	151	0.66%	-
2-12	2-13	2-12	STORM SEWERS, CLASS A, TYPE 2 12"	39	4.14%	13
2-13	2-14	2-13	STORM SEWERS, CLASS A, TYPE 2 12"	43	1.21%	11
2-14	2-12	2-15	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	148	0.74%	-
2-15	2-16	2-15	STORM SEWERS, CLASS A, TYPE 2 12"	86	1.63%	16
2-16	2-15	2-17	STORM SEWERS, CLASS A, TYPE 2 18"	91	0.77%	67
2-17	2-18	2-17	STORM SEWERS, CLASS A, TYPE 2 12"	2	51.99%	1
2-18	2-17	2-19	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	211	0.52%	178
2-19	2-19	2-20	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	1	34.18%	1
2-20	2-21	2-38	STORM SEWERS, CLASS A, TYPE 2 12"	31	0.51%	6
2-21	2-22	2-21	STORM SEWERS, CLASS A, TYPE 2 12"	68	1.35%	12
2-22	2-20	2-38	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	31	0.96%	27
2-23	2-38	2-23	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	246	0.90%	-
2-24	2-24	2-25	STORM SEWERS, CLASS A, TYPE 1 24"	92	4.87%	-
2-25	2-26	2-24	STORM SEWERS, CLASS A, TYPE 2 24"	13	5.26%	13
2-26	2-27	2-23	STORM SEWERS, CLASS A, TYPE 2 12"	6	1.54%	11
2-27	2-28	2-27	STORM SEWERS, CLASS A, TYPE 2 12"	32	1.23%	7
2-28	2-29	2-26	STORM SEWERS, CLASS A, TYPE 2 12"	30	2.20%	7
2-29	2-30	2-27	STORM SEWERS, CLASS A, TYPE 2 12"	31	4.29%	7
2-30	2-31	2-26	STORM SEWERS, CLASS A, TYPE 2 12"	29	5.44%	7
2-31	2-32	2-24	STORM SEWERS, CLASS A, TYPE 2 15"	270	1.48%	-
2-32	2-33	2-32	STORM SEWERS, CLASS A, TYPE 2 12"	18	1.24%	4
2-33	2-34	2-33	STORM SEWERS, CLASS A, TYPE 2 12"	46	1.80%	6
2-34	2-35	2-36	STORM SEWERS, CLASS A, TYPE 1 15"	49	1.02%	-
2-35	2-36	2-37	STORM SEWERS, CLASS A, TYPE 1 15"	242	0.41%	-
2-36	2-23	2-26	STORM SEWERS, CLASS A, TYPE 2 24"	30	6.33%	-
2-37	2-39	2-10	STORM SEWERS, CLASS A, TYPE 2 12"	49	0.47%	10

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USER NAME = 35361	DESIGNED DW	REVISED -	
	DRAWN DW	REVISED	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 3 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	186

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
3-1	133+08	139.1' RT	CONCRETE END SECTION, STANDARD 542001, 42", 1:3 AND TRAVERSABLE PIPE GRATE	–	713.50 W (IN)
3-2	133+54	58.4' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.78	713.70 N (IN) 713.70 E (OUT)
3-3	135+88	58.1' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.18	714.16 N (IN) 714.16 S (OUT)
3-4	137+95	55.6' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.00	714.70 N (IN) 714.60 S (OUT) 726.20 W (IN)
3-5	137+95	39.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	730.68	726.48 W (IN) 726.48 E (OUT)
3-6	137+95	15.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	731.50	727.30 E (OUT)
3-7	138+65	54.3' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.10	715.40 N (IN) 714.90 S (OUT) 725.90 W (IN)
3-8	138+65	15.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	731.14	726.94 E (OUT)
3-9	140+31	54.6' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	729.70	719.10 N (IN) 716.44 S (OUT) 721.30 W (IN)
3-10	140+31	39.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	730.03	725.20 W (IN) 721.60 E (OUT) 725.20 S (IN) 725.20 N (IN)
3-11	140+31	15.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	730.51	725.80 E (OUT) 725.80 S (IN) 725.80 NW (IN)
3-12	140+00	15.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	730.54	726.34 N (OUT)
3-13	140+00	39.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	730.06	725.86 N (OUT)
3-14	140+68	51.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	730.55	726.35 SE (OUT)
3-15	140+68	40.5' RT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	730.07	725.87 S (OUT)
3-16	141+90	62.8' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.30	720.00 N (IN) 719.90 S (OUT) 725.50 W (IN)
3-17	141+90	9.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	731.30	727.10 E (OUT)
3-18	143+00	65.5' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.84	720.70 N (IN) 720.60 S (OUT) 726.70 W (IN)
3-19	143+00	51.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	731.99	727.00 W (IN) 727.00 E (OUT)
3-20	143+00	9.0' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	732.77	727.60 W (IN) 727.60 E (OUT)
3-21	143+00	43.3' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	732.20	728.00 E (OUT)

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
3-22	144+45	66.6' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	734.50	723.10 NE (IN) 722.10 S (OUT) 723.10 W (IN)
3-23	144+45	63.3' LT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	734.50	724.50 NW (IN) 724.40 E (OUT)
3-24	309+17	71.9' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.90	727.00 N (IN) 725.00 SE (OUT) 725.10 NW (IN)
3-25	309+17	33.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	736.56	730.90 N (IN) 730.90 S (OUT) 730.90 W (IN)
3-26	309+03	43.3' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	736.87	731.90 S (OUT) 731.90 W (IN)
3-27	311+28	40.9' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	737.48	727.80 N (IN) 727.70 SW (OUT) 728.45 E (IN)
3-28	310+80	34.1' LT	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	736.90	729.60 N (IN) 729.50 S (OUT) 731.80 E (IN)
3-29	146+81	67.1' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	741.00	730.80 N (IN) 730.70 S (OUT) 733.50 W (IN)
3-30	146+81	39.4' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	739.24	733.50 W (IN) 733.50 E (OUT)
3-31	146+81	51.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	738.66	734.46 E (OUT)
3-32	147+65	55.2' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	740.05	732.00 N (IN) 731.50 S (OUT) 734.80 W (IN)
3-33	147+65	39.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	740.55	735.10 W (IN) 735.10 E (OUT)
3-34	147+65	51.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	740.25	736.05 E (OUT)
3-35	149+75	53.7' RT	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	743.65	735.30 N (IN) 735.20 S (OUT) 738.10 W (IN)
3-36	149+75	39.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	743.71	738.40 W (IN) 738.40 E (OUT)
3-37	149+75	46.1' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	743.54	739.34 E (OUT)
3-38	152+10	53.2' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	747.06	738.10 N (IN) 738.00 S (OUT) 741.90 W (IN)
3-39	152+10	38.2' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	747.22	742.20 W (IN) 742.20 E (OUT)
3-40	152+10	38.2' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	747.22	743.02 E (OUT)
3-41	154+60	50.9' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	750.70	742.00 N (IN) 741.75 S (OUT) 745.10 W (IN)
3-42	154+60	11.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	751.09	745.90 W (IN) 745.90 E (OUT)

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USER NAME = 35361	DESIGNED DW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 4 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	187

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
3-43	154+60	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	750.60	746.40 E (OUT)
3-44	156+95	50.5' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	752.70	745.50 N (IN) 745.40 S (OUT) 748.00 W (IN)
3-45	156+95	8.8' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	753.67	748.50 W (IN) 748.50 E (OUT)
3-46	156+95	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	753.19	748.99 E (OUT)
3-47	158+90	50.4' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.74	747.10 N (IN) 747.00 S (OUT) 749.70 W (IN)
3-48	158+90	0.9' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.22	750.30 W (IN) 750.30 E (OUT)
3-49	158+90	35.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.89	750.69 E (OUT)
3-50	161+03	50.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	758.15	749.00 W (IN) 748.75 S (OUT)
3-51	649+17	21.5' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.45	750.50 N (IN) 750.50 E (OUT)
3-52	649+17	28.7' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.32	751.12 S (OUT)
3-53	295+95	27.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	752.47	748.27 S (OUT)
3-54	295+95	31.1' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	753.43	747.72 N (IN) 747.47 E (OUT)
3-55	298+10	27.8' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	752.80	746.60 E (OUT) 746.70 W (IN) 746.85 N (IN)
3-56	298+10	31.1' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	752.24	748.04 S (OUT)
3-57	300+25	26.5' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	750.27	745.25 W (IN) 745.15 E (OUT) 745.40 N (IN)
3-58	300+25	21.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	750.01	745.81 S (OUT)
3-59	301+60	39.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	748.84	744.25 W (IN) 744.15 E (OUT) 744.40 N (IN)
3-60	301+60	21.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	748.87	744.67 S (OUT)
3-61	302+85	39.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	747.64	742.65 W (IN) 742.55 E (OUT) 742.80 N (IN)
3-62	302+85	21.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	747.67	743.47 S (OUT)
3-63	303+85	39.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	746.24	741.30 W (IN) 741.20 E (OUT) 741.45 N (IN)

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
3-64	303+85	21.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	746.27	742.07 S (OUT)
3-65	304+65	41.3' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	744.80	740.35 W (IN) 740.25 E (OUT) 740.50 N (IN)
3-66	304+65	22.7' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	744.83	740.63 S (OUT)
3-67	307+02	51.4' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	740.75	726.60 W (IN) 726.10 SE (OUT) 733.00 N (IN)
3-68	307+02	33.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	740.00	735.80 S (OUT)
3-69	308+97	33.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	736.61	732.41 E (OUT)
3-70	308+93	40.4' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	736.92	732.72 E (OUT)
3-71	311+30	33.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	736.56	732.36 W (OUT)
3-72	313+00	34.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	742.68	734.90 E (IN) 734.80 W (OUT) 735.50 N (IN)
3-73	313+00	33.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	740.35	736.15 S (OUT)
3-74	315+00	34.5' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	746.07	735.70 E (IN) 735.60 W (OUT)
3-75	317+30	34.3' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	744.10	736.55 E (IN) 736.45 W (OUT) 736.70 N (IN)
3-76	317+30	21.0' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	743.58	739.38 S (OUT)
3-77	318+73	34.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	742.87	737.30 NE (IN) 737.05 W (OUT)
3-78	318+81	21.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	742.15	737.50 N (IN) 737.50 SW (OUT)
3-79	318+81	21.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	742.15	737.95 S (OUT)
3-80	318+95	45.6' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	741.60	737.00 SE (OUT) 737.00 W (IN)
3-81	137+08	54.6' RT	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	730.73	714.42 N (IN) 714.42 S (OUT)
3-82	317+00	45.6' LT	CATCH BASINS, TYPE C, TYPE 8 GRATE	743.16	738.96 E (OUT)
3-83	306+15	32.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	741.49	737.29 S (OUT)
3-84	306+15	50.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	741.46	735.00 N (IN) 729.40 W (IN) 727.40 E (OUT)
3-85	297+50	29.9' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	752.71	746.91 W (IN) 746.91 E (OUT)

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USER NAME = 35361	DESIGNED DW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN DW	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 5 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	188

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
3-1	3-2	3-1	STORM SEWERS, CLASS A, TYPE 3 42"	89	0.23%	-
3-2	3-3	3-2	STORM SEWERS JACKED IN PLACE, 42"	221	0.21%	-
3-3	3-4	3-81	STORM SEWERS, CLASS A, TYPE 3 42"	79	0.24%	-
3-4	3-5	3-4	STORM SEWERS, CLASS A, TYPE 2 12"	12	2.42%	4
3-5	3-6	3-5	STORM SEWERS, CLASS A, TYPE 2 12"	51	1.61%	10
3-6	3-7	3-4	STORM SEWERS, CLASS A, TYPE 3 42"	62	0.32%	-
3-7	3-8	3-7	STORM SEWERS, CLASS A, TYPE 2 12"	65	1.59%	12
3-8	3-9	3-7	STORM SEWERS, CLASS A, TYPE 3 36"	157	0.66%	395
3-9	3-10	3-9	STORM SEWERS, CLASS A, TYPE 2 15"	11	2.83%	14
3-10	3-11	3-10	STORM SEWERS, CLASS A, TYPE 2 12"	50	1.20%	9
3-11	3-12	3-11	STORM SEWERS, CLASS A, TYPE 2 12"	28	1.91%	7
3-12	3-13	3-10	STORM SEWERS, CLASS A, TYPE 2 12"	28	2.33%	7
3-13	3-14	3-11	STORM SEWERS, CLASS A, TYPE 2 12"	48	1.14%	8
3-14	3-15	3-10	STORM SEWERS, CLASS A, TYPE 2 12"	34	1.98%	8
3-15	3-16	3-9	STORM SEWERS, CLASS A, TYPE 2 36"	153	0.52%	299
3-16	3-17	3-16	STORM SEWERS, CLASS A, TYPE 2 12"	68	2.34%	15
3-17	3-18	3-16	STORM SEWERS, CLASS A, TYPE 2 36"	105	0.57%	216
3-18	3-19	3-18	STORM SEWERS, CLASS A, TYPE 2 12"	10	3.01%	7
3-19	3-20	3-19	STORM SEWERS, CLASS A, TYPE 2 12"	56	1.07%	16
3-20	3-21	3-20	STORM SEWERS, CLASS A, TYPE 2 12"	31	1.28%	8
3-21	3-22	3-18	STORM SEWERS, CLASS A, TYPE 2 36"	140	1.00%	322
3-22	3-23	3-22	STORM SEWERS, CLASS A, TYPE 2 24"	127	1.02%	193
3-23	3-24	3-23	STORM SEWERS, CLASS A, TYPE 2 24"	66	0.46%	-
3-24	3-25	3-24	STORM SEWERS, CLASS A, TYPE 2 12"	47	6.12%	13
3-25	3-26	3-25	STORM SEWERS, CLASS A, TYPE 2 12"	74	1.36%	21
3-26	3-27	3-22	STORM SEWERS, CLASS A, TYPE 2 24"	50	9.17%	27
3-27	3-28	3-27	STORM SEWERS, CLASS A, TYPE 2 24"	84	2.02%	82
3-28	3-29	3-28	STORM SEWERS, CLASS A, TYPE 2 24"	100	1.10%	32
3-29	3-30	3-29	STORM SEWERS, CLASS A, TYPE 2 12"	23	0.00%	12
3-30	3-31	3-30	STORM SEWERS, CLASS A, TYPE 2 12"	87	1.10%	20
3-31	3-32	3-29	STORM SEWERS, CLASS A, TYPE 2 24"	80	0.88%	10
3-32	3-33	3-32	STORM SEWERS, CLASS A, TYPE 2 12"	12	2.56%	4
3-33	3-34	3-33	STORM SEWERS, CLASS A, TYPE 2 12"	87	1.09%	21
3-34	3-35	3-32	STORM SEWERS, CLASS A, TYPE 2 18"	205	1.56%	260
3-35	3-36	3-35	STORM SEWERS, CLASS A, TYPE 2 12"	10	2.94%	8
3-36	3-37	3-36	STORM SEWERS, CLASS A, TYPE 2 12"	82	1.15%	16
3-37	3-38	3-35	STORM SEWERS, CLASS A, TYPE 2 18"	231	1.17%	310
3-38	3-39	3-38	STORM SEWERS, CLASS A, TYPE 2 12"	11	2.74%	8
3-39	3-40	3-39	STORM SEWERS, CLASS A, TYPE 2 12"	73	1.12%	13
3-40	3-41	3-38	STORM SEWERS, CLASS A, TYPE 2 18"	246	1.48%	339
3-41	3-42	3-41	STORM SEWERS, CLASS A, TYPE 2 12"	36	2.23%	24
3-42	3-43	3-42	STORM SEWERS, CLASS A, TYPE 2 12"	43	1.16%	8

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
3-43	3-44	3-41	STORM SEWERS, CLASS A, TYPE 2 15"	233	1.46%	302
3-44	3-45	3-44	STORM SEWERS, CLASS A, TYPE 2 12"	38	1.33%	13
3-45	3-46	3-45	STORM SEWERS, CLASS A, TYPE 2 12"	41	1.20%	8
3-46	3-47	3-44	STORM SEWERS, CLASS A, TYPE 2 15"	193	0.78%	243
3-47	3-48	3-47	STORM SEWERS, CLASS A, TYPE 2 12"	47	1.27%	16
3-48	3-49	3-48	STORM SEWERS, CLASS A, TYPE 2 12"	31	1.25%	6
3-49	3-50	3-47	STORM SEWERS, CLASS A, TYPE 2 15"	212	0.78%	267
3-50	3-51	3-50	STORM SEWERS, CLASS A, TYPE 2 12"	138	1.08%	97
3-51	3-52	3-51	STORM SEWERS, CLASS A, TYPE 2 12"	47	1.31%	15
3-52	3-53	3-54	STORM SEWERS, CLASS A, TYPE 2 12"	55	1.00%	34
3-53	3-54	3-85	STORM SEWERS, CLASS A, TYPE 2 15"	153	0.37%	125
3-54	3-56	3-55	STORM SEWERS, CLASS A, TYPE 2 12"	56	2.13%	18
3-55	3-55	3-57	STORM SEWERS, CLASS A, TYPE 2 15"	210	0.64%	135
3-56	3-58	3-57	STORM SEWERS, CLASS A, TYPE 2 12"	3	16.18%	1
3-57	3-57	3-59	STORM SEWERS, CLASS A, TYPE 2 15"	130	0.69%	49
3-58	3-60	3-59	STORM SEWERS, CLASS A, TYPE 2 12"	16	1.73%	5
3-59	3-59	3-61	STORM SEWERS, CLASS A, TYPE 2 15"	119	1.26%	41
3-60	3-62	3-61	STORM SEWERS, CLASS A, TYPE 2 12"	16	4.30%	6
3-61	3-61	3-63	STORM SEWERS, CLASS A, TYPE 2 15"	94	1.33%	38
3-62	3-64	3-63	STORM SEWERS, CLASS A, TYPE 2 12"	16	3.98%	6
3-63	3-63	3-65	STORM SEWERS, CLASS A, TYPE 2 15"	75	1.14%	27
3-64	3-66	3-65	STORM SEWERS, CLASS A, TYPE 2 12"	16	0.83%	5
3-65	3-65	3-84	STORM SEWERS, CLASS A, TYPE 3 15"	143	7.57%	146
3-66	3-68	3-67	STORM SEWERS, CLASS A, TYPE 2 12"	15	18.17%	12
3-67	3-67	3-24	STORM SEWERS, CLASS A, TYPE 3 24"	242	0.50%	44
3-68	3-69	3-25	STORM SEWERS, CLASS A, TYPE 2 12"	17	8.88%	5
3-69	3-70	3-26	STORM SEWERS, CLASS A, TYPE 2 12"	7	11.83%	2
3-70	3-71	3-28	STORM SEWERS, CLASS A, TYPE 2 12"	47	1.19%	4
3-71	3-72	3-27	STORM SEWERS, CLASS A, TYPE 2 15"	171	3.72%	198
3-72	3-73	3-72	STORM SEWERS, CLASS A, TYPE 2 12"	65	1.01%	42
3-73	3-74	3-72	STORM SEWERS, CLASS A, TYPE 2 15"	202	0.35%	276
3-74	3-75	3-74	STORM SEWERS, CLASS A, TYPE 2 15"	228	0.33%	303
3-75	3-76	3-75	STORM SEWERS, CLASS A, TYPE 2 12"	52	5.12%	35
3-76	3-77	3-75	STORM SEWERS, CLASS A, TYPE 2 15"	139	0.36%	135
3-77	3-78	3-77	STORM SEWERS, CLASS A, TYPE 2 12"	12	1.70%	7
3-78	3-79	3-78	STORM SEWERS, CLASS A, TYPE 2 12"	39	1.15%	11
3-79	3-80		STORM SEWERS, CLASS A, TYPE 2 10"	75	1.20%	27
3-80	3-81	3-3	STORM SEWERS, CLASS A, TYPE 3 42"	111	0.23%	-
3-81	3-82	3-80	STORM SEWERS, CLASS A, TYPE 2 10"	192	1.02%	-
3-82	3-83	3-84	STORM SEWERS, CLASS A, TYPE 2 12"	16	14.64%	11
3-83	3-84	3-67	STORM SEWERS, CLASS A, TYPE 3 18"	82	0.98%	182
3-84	3-85	3-55	STORM SEWERS, CLASS A, TYPE 2 15"	56	0.38%	40

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USER NAME = 35361	DESIGNED DW	REVISED -	
	DRAWN DW	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 6 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	189

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
4-1	163+85	47.0' LT	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	753.46	749.26 E (OUT)
4-2	163+85	11.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.29	748.70 W (IN) 748.70 E (OUT)
4-3	163+85	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.00	748.25 W (IN) 748.00 N (OUT)
4-4	165+51	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	750.14	744.90 S (IN) 744.80 N (OUT) 746.30 W (IN)
4-5	165+51	11.0' RT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	750.97	746.77 E (OUT)
4-6	166+00	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	746.92	743.50 S (IN) 743.70 W (IN) 743.00 N (OUT)
4-7	166+00	39.2' LT	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	749.42	745.22 E (OUT)
4-8	167+00	52.1' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	744.10	739.00 S (IN) 737.00 NE (OUT)
4-9	167+13	74.6' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	736.00 SW (IN)
4-10	169+13	120.9' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	736.00 NE (OUT)
4-11	169+18	135.5' RT	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	741.00	735.90 SW (IN) 735.90 NE (OUT)
4-12	169+26	160.3' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	735.20 SW (IN)

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
5-1	294+37	44.2' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	751.00	747.60 S (OUT) 748.00 W (IN)
5-2	294+37	42.0' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.80	747.30 N (IN) 747.30 E (OUT) 751.00 S (IN) 747.30 W (IN)
5-3	295+01	48.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	752.80	747.10 W (IN)
5-4	294+37	53.5' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-	751.80 N (OUT)
5-5	292+85	41.1' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	753.00 E (OUT)
5-6	294+15	47.1' LT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.00	750.86 E (OUT)
5-7	294+39	50.1' LT	METAL END SECTIONS 12"	-	751.00 NE (IN)

MULTI-CELL BOX CULVERT END SECTIONS TABLE							
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	INVERTS	SPAN X RISE	SLOPE (V:H)	LENGTH
6-1	142+99	69.5' LT	BOX CULVERT END SECTIONS, CULVERT NO. 1	728.10 E	4' x 2'	1:3	7
6-2	142+46	68.4' RT	BOX CULVERT END SECTIONS, CULVERT NO. 2	727.00 W	4' x 2'	1:3	7
6-3	170+64	62.1' LT	BOX CULVERT END SECTIONS, CULVERT NO. 3	736.20 E	4' x 2'	1:3	7
6-4	170+56	43.5' RT	BOX CULVERT END SECTIONS, CULVERT NO. 4	735.70 W	4' x 2'	1:3	7
6-5	176+06	63.6' LT	BOX CULVERT END SECTIONS, CULVERT NO. 5	732.15 E	4' x 2'	1:3	7
6-6	176+12	38.1' RT	BOX CULVERT END SECTIONS, CULVERT NO. 6	731.90 W	4' x 2'	1:3	7
6-7	308+81	63.1' LT	BOX CULVERT END SECTIONS, CULVERT NO. 7	731.60 S	4' x 2'	1:3	7
6-8	308+81	60.9' RT	BOX CULVERT END SECTIONS, CULVERT NO. 8	731.30 N	4' x 2'	1:3	7

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
4-1	4-1	4-2	STORM SEWERS, CLASS A, TYPE 2 12"	55	1.02%	15
4-2	4-2	4-3	STORM SEWERS, CLASS A, TYPE 2 12"	37	1.21%	13
4-3	4-3	4-4	STORM SEWERS, CLASS A, TYPE 2 15"	163	1.90%	-
4-4	4-5	4-4	STORM SEWERS, CLASS A, TYPE 1 12"	38	1.23%	7
4-5	4-4	4-6	STORM SEWERS, CLASS A, TYPE 1 15"	45	2.89%	-
4-6	4-7	4-6	STORM SEWERS, CLASS A, TYPE 1 12"	88	1.72%	11
4-7	4-6	4-8	STORM SEWERS, CLASS A, TYPE 2 15"	96	4.17%	-
4-8	4-8	4-9	STORM SEWERS, CLASS A, TYPE 1 15"	25	4.07%	-
4-9	4-10	4-11	STORM SEWERS, CLASS A, TYPE 1 15"	12	0.80%	-
4-10	4-11	4-12	STORM SEWERS, CLASS A, TYPE 1 15"	23	3.00%	-

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
5-1	5-1	5-2	STORM SEWERS, CLASS A, TYPE 1 18"	82	0.37%	28
5-2	5-2	5-3	STORM SEWERS, CLASS A, TYPE 2 18"	63	0.32%	32
5-3	5-4	5-2	STORM SEWERS, CLASS A, TYPE 1 12"	10	8.41%	-
5-4	5-5	5-2	STORM SEWERS, CLASS A, TYPE 1 15"	156	3.65%	40
5-5	5-6	5-1	STORM SEWERS, CLASS A, TYPE 1 12"	17	16.65%	-

PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)									
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	SKEW	DESIGN FILL (FT) EDGE OF SHOULDER (MINIMUM)	DESIGN FILL (FT) MAXIMUM	PGE BACKFILL REQUIRED (CY)
6-1	6-1	6-2	PRECAST CONCRETE BOX CULVERTS 4' X 2'	148	0.75%	21	1.58	2.58	19
6-2	6-1	6-2	PRECAST CONCRETE BOX CULVERTS 4' X 2'	148	0.75%	21	1.58	2.58	19
6-3	6-3	6-4	PRECAST CONCRETE BOX CULVERTS 4' X 2'	106	0.47%	4	3.24	4.11	31
6-4	6-3	6-4	PRECAST CONCRETE BOX CULVERTS 4' X 2'	106	0.47%	4	3.24	4.11	31
6-5	6-5	6-6	PRECAST CONCRETE BOX CULVERTS 4' X 2'	102	0.25%	4	3.56	4.20	32
6-6	6-5	6-6	PRECAST CONCRETE BOX CULVERTS 4' X 2'	102	0.25%	4	3.56	4.20	32
6-7	6-7	6-8	PRECAST CONCRETE BOX CULVERTS 4' X 2'	124	0.24%	0	2.95	3.90	47
6-8	6-7	6-8	PRECAST CONCRETE BOX CULVERTS 4' X 2'	124	0.24%	0	2.95	3.90	47

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FILE NAME = pw:\\tspla02pwint@ipersons.com:illinois State\Documents\US45 - 647965\40 - Design\CAD\Drainage\Sheets\D160175_sht_plan_drain_schedules_07.dgn

USER NAME = 35361	DESIGNED DW	REVISED -	
	DRAWN DW	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 7 OF 10 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	190

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

ROADWAY CIRCULAR CULVERTS					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIMS	INVERTS
7-1	311+58	64.0' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	732.20 S
7-2	311+57	59.4' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	732.00 N
7-3	159+12	64.0' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	750.90 E
7-4	159+12	63.0' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	750.60 W
7-5	601+92	37.0' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	736.00 N
7-6	605+41	29.5' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	727.70 S
7-7	107+30	51.0' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" AND GRATING FOR CONCRETE FLARED END SECTION 24"	-	726.14 S
7-8	604+70	25.2' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	731.26	728.00 S 728.00 N
7-9	311+72	25.9' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" AND GRATING FOR CONCRETE FLARED END SECTION 15"	-	745.00 N
7-10	311+72	26.1' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" AND GRATING FOR CONCRETE FLARED END SECTION 15"	-	744.80 S

ROADWAY CIRCULAR CULVERTS						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
7-1	7-1	7-2	PIPE CULVERTS, CLASS A, TYPE 1 24"	106	0.19%	21
7-2	7-3	7-4	PIPE CULVERTS, CLASS A, TYPE 1 24"	116	0.26%	25
7-3	7-5	7-8	PIPE CULVERTS, CLASS A, TYPE 1 24"	282	2.84%	21
7-4	7-7		PIPE CULVERTS, CLASS A, TYPE 1 24"	22	0.95%	-
7-5	7-8	7-6	PIPE CULVERTS, CLASS A, TYPE 1 24"	64	0.47%	4
7-6	7-9	7-10	PIPE CULVERTS, CLASS A, TYPE 1 15"	40	0.50%	9

DRAINAGE & UTILITIES					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
8-1	651+85	36.8' RT	CATCH BASINS, TYPE C, TYPE 8 GRATE	747.70	743.25 E (OUT)
8-2	653+08	19.0' RT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	746.80	742.35 W (IN) 742.35 E (OUT)
8-3	653+17	16.4' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	746.60	742.05 W (IN) 742.05 SE (IN) 742.30 NW (IN)
8-4	653+40	33.5' RT	CATCH BASINS, TYPE C, TYPE 3 FRAME AND GRATE	746.10	742.30 NW (OUT)
8-5	653+00	39.8' LT	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	746.50	743.00 SW (OUT)
8-6	652+90	26.1' LT	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	746.75	742.80 NE (IN) 742.80 SE (OUT)

DRAINAGE & UTILITIES						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
8-1	8-1	8-2	STORM SEWERS, CLASS A, TYPE 2 15"	122	0.74%	24
8-2	8-2	8-3	STORM SEWERS, CLASS A, TYPE 2 15"	5	5.85%	2
8-3	8-4	8-3	STORM SEWERS, CLASS A, TYPE 1 12"	26	0.97%	6
8-4	8-5	8-6	STORM SEWERS, CLASS A, TYPE 1 12"	14	1.40%	2
8-5	8-6	8-3	STORM SEWERS, CLASS A, TYPE 1 12"	47	1.07%	10

DRIVEWAY CULVERTS				
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	INVERTS
9-1	118+70	66.4' LT	METAL END SECTIONS 15"	738.35 N
9-2	118+96	66.5' LT	METAL END SECTIONS 15"	738.25 S
9-3	140+83	61.9' RT	METAL END SECTIONS 15"	728.35 N
9-4	141+08	64.1' RT	METAL END SECTIONS 15"	728.23 S
9-5	141+17	75.0' LT	METAL END SECTIONS 15"	729.40 N
9-6	141+41	75.0' LT	METAL END SECTIONS 15"	729.34 S
9-7	141+17	79.0' LT	METAL END SECTIONS 15"	729.40 N
9-8	141+41	79.0' LT	METAL END SECTIONS 15"	729.34 S
9-9	142+30	73.4' LT	METAL END SECTIONS 15"	728.82 N
9-10	142+54	73.0' LT	METAL END SECTIONS 15"	728.76 S
9-11	142+30	77.4' LT	METAL END SECTIONS 15"	728.82 N
9-12	142+54	77.0' LT	METAL END SECTIONS 15"	728.76 S
9-13	149+30	59.2' RT	METAL END SECTIONS 15"	741.60 S
9-14	149+05	58.9' RT	METAL END SECTIONS 15"	741.26 N
9-15	294+95	42.6' LT	METAL END SECTIONS 15"	751.30 W

DRIVEWAY CULVERTS				
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	INVERTS
9-16	294+69	43.2' LT	METAL END SECTIONS 15"	751.24 E
9-17	301+96	54.5' RT	METAL END SECTIONS 15"	745.20 E
9-18	302+21	54.5' RT	METAL END SECTIONS 15"	744.90 W
9-19	304+67	55.3' RT	METAL END SECTIONS 15"	741.52 E
9-20	304+99	56.7' RT	METAL END SECTIONS 15"	740.96 W
9-21	307+05	63.0' RT	METAL END SECTIONS 15"	737.48 E
9-22	307+42	60.7' RT	METAL END SECTIONS 15"	737.31 W
9-23	602+50	33.8' LT	METAL END SECTIONS 15"	735.00 NE
9-24	602+88	31.9' LT	METAL END SECTIONS 15"	734.91 SW
9-25	109+70	50.7' LT	METAL END SECTIONS 24"	733.86 N
9-26	111+00	67.4' LT	METAL END SECTIONS 24"	734.52 S
9-27	314+22	26.1' LT	METAL END SECTIONS 15"	747.11 E
9-28	314+46	26.1' LT	METAL END SECTIONS 15"	747.30 W

DRIVEWAY CULVERTS						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
9-1	9-1	9-2	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.49%	3
9-2	9-3	9-4	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.59%	3
9-3	9-5	9-6	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.31%	3
9-4	9-7	9-8	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.31%	3
9-5	9-9	9-10	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.31%	3
9-6	9-11	9-12	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.31%	3
9-7	9-13	9-14	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	1.66%	3
9-8	9-15	9-16	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.32%	3
9-9	9-17	9-18	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	1.47%	3
9-10	9-19	9-20	PIPE CULVERTS, CLASS D, TYPE 1 15"	27	2.11%	2
9-11	9-21	9-22	PIPE CULVERTS, CLASS D, TYPE 1 15"	33	0.51%	3
9-12	9-23	9-24	PIPE CULVERTS, CLASS D, TYPE 1 15"	29	0.32%	4
9-13	9-26	9-25	PIPE CULVERTS, CLASS D, TYPE 1 24"	127	0.52%	13
9-14	9-28	9-27	PIPE CULVERTS, CLASS D, TYPE 1 15"	20	0.96%	4

PLAN
NOTE BOOK NO. ____
SURVEYED ____
PLOTTED ____
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BY ____ DATE ____

PROFILE
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PLOTTED ____
GRADES CHECKED ____
B.M. NOTED ____
STRUCTURE NOTAT'NS CH'KD ____
BY ____ DATE ____

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PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 8 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	191

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

FIELD TILE CONNECTIONS					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIM ELEVATION	INVERTS
10-1	130+78	58.8' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	730.00	722.00 SE (OUT)
10-2	128+33	70.4' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	–	719.00 NW (IN)
10-3	142+80	75.9' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	729.90	726.70 N (IN)
10-4	144+09	76.0' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	732.07	727.50 W (IN) 727.50 S (OUT)
10-5	144+09	88.6' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	734.70	728.25 E (OUT) 728.25 N (IN)
10-6	309+14	85.9' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	736.50	728.90 NW (IN) 728.90 S (OUT)
10-7	308+64	70.7' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	736.00	729.20 N (IN) 729.20 SE (OUT)
10-8	308+64	57.1' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	735.00	729.80 NE (IN) 729.80 S (OUT)
10-9	147+16	77.6' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	737.70	730.10 SW (OUT)
10-10	294+25	39.6' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	752.80	745.60 E (OUT)
10-11	294+57	37.9' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	752.33	745.50 W (IN) 745.50 S (OUT)
10-12	294+86	50.6' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	753.00	745.00 N (IN)
10-13	302+40	42.8' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	750.15	745.00 S (OUT)
10-14	302+62	53.9' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	744.80	740.50 N (IN) 740.50 E (OUT)
10-15	303+81	58.1' RT	FIELD TILE JUNCTION VAULTS, 4' DIA.	744.20	740.00 W (IN)
10-16	176+09	76.3' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	735.00	730.60 N (OUT)
10-17	176+34	76.3' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	735.00	730.35 E (OUT) 730.35 S (IN)
10-18	176+43	38.0' RT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	–	729.80 W (IN)
10-19	135+65	70.0' LT	FIELD TILE JUNCTION VAULTS, 4' DIA.	729.40	726.20 S (OUT)
10-20	135+38	70.1' LT	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	–	726.00 N (IN)

TEMPORARY DRAINAGE CULVERTS					
STRUCTURE NUMBER	STATION	OFFSET	DESCRIPTION	RIMS	INVERTS
11-1	294+71	50.5' RT	METAL END SECTIONS 15"	–	749.90 E
11-2	294+92	47.6' RT	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	751.90	747.07 W 747.07 E
11-3	295+83	51.7' RT	METAL END SECTIONS 15"	–	750.00 W

TEMPORARY DRAINAGE CULVERTS						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
11-1	11-1	11-2	PIPE CULVERTS, CLASS D, TYPE 1 15"	15	18.45%	–
11-2	11-3	11-2	PIPE CULVERTS, CLASS D, TYPE 1 15"	35	6.95%	–

FIELD TILE CONNECTIONS						
PIPE NUMBER	FROM STRUCTURE	TO STRUCTURE	DESCRIPTION	LENGTH (FT)	SLOPE (%)	TBF (CY)
10-1	10-1	10-2	STORM SEWERS PROTECTED, CLASS A, 12"	248	1.21%	–
10-2	10-4	10-3	STORM SEWERS (SPECIAL), 12"	125	0.64%	–
10-3	10-5	10-4	STORM SEWERS PROTECTED, CLASS A, 12"	161	0.47%	116
10-4	10-6	10-5	STORM SEWERS (SPECIAL), 12"	104	0.62%	–
10-5	10-7	10-6	STORM SEWERS (SPECIAL), 12"	49	0.62%	–
10-6	10-8	10-7	STORM SEWERS PROTECTED, CLASS A, 12"	124	0.48%	90
10-7	10-9	10-8	STORM SEWERS (SPECIAL), 12"	64	0.47%	–
10-8	10-10	10-11	STORM SEWERS (SPECIAL), 12"	26	0.38%	–
10-9	10-11	10-12	STORM SEWERS PROTECTED, CLASS A, 12"	89	0.56%	76
10-10	10-13	10-14	STORM SEWERS PROTECTED, CLASS A, 12"	95	4.72%	23
10-11	10-14	10-15	STORM SEWERS (SPECIAL), 12"	112	0.45%	–
10-12	10-16	10-17	STORM SEWERS (SPECIAL), 12"	22	1.16%	23
10-13	10-17	10-18	STORM SEWERS PROTECTED, CLASS A, 12"	113	0.49%	–
10-14	10-19	10-20	STORM SEWERS (SPECIAL), 12"	26	0.76%	–

PIPE UNDERDRAINS TYPE 2 4"			
PIPE NUMBER	DESCRIPTION	STATION	LENGTH (FT)
PU-1	PIPE UNDERDRAINS 4"	107+01	54
PU-2	PIPE UNDERDRAINS 4"	111+00	24
PU-3	PIPE UNDERDRAINS 4"	113+45	20
PU-4	PIPE UNDERDRAINS 4"	119+31	20
PU-5	PIPE UNDERDRAINS 4"	119+55	66
PU-6	PIPE UNDERDRAINS 4"	120+42	20
PU-7	PIPE UNDERDRAINS 4"	122+88	70
PU-8	PIPE UNDERDRAINS 4"	125+40	70
PU-9	PIPE UNDERDRAINS 4"	129+98	20
PU-10	PIPE UNDERDRAINS 4"	129+97	20
PU-11	PIPE UNDERDRAINS 4"	130+36	20
PU-12	PIPE UNDERDRAINS 4"	130+36	20
PU-13	PIPE UNDERDRAINS 4"	133+19	20
PU-14	PIPE UNDERDRAINS 4"	133+19	20
PU-15	PIPE UNDERDRAINS 4"	137+76	20
PU-16	PIPE UNDERDRAINS 4"	137+76	20
PU-17	PIPE UNDERDRAINS 4"	138+46	20
PU-18	PIPE UNDERDRAINS 4"	140+26	36
PU-19	PIPE UNDERDRAINS 4"	140+26	31
PU-20	PIPE UNDERDRAINS 4"	143+04	94
PU-21	PIPE UNDERDRAINS 4"	146+85	90
PU-22	PIPE UNDERDRAINS 4"	149+79	85
PU-23	PIPE UNDERDRAINS 4"	152+14	76

PIPE UNDERDRAINS TYPE 2 4"			
PIPE NUMBER	DESCRIPTION	STATION	LENGTH (FT)
PU-24	PIPE UNDERDRAINS 4"	154+64	86
PU-25	PIPE UNDERDRAINS 4"	157+15	20
PU-26	PIPE UNDERDRAINS 4"	157+14	20
PU-27	PIPE UNDERDRAINS 4"	165+46	94
PU-28	PIPE UNDERDRAINS 4"	295+09	83
PU-29	PIPE UNDERDRAINS 4"	296+06	203
PU-30	PIPE UNDERDRAINS 4"	298+65	159
PU-31	PIPE UNDERDRAINS 4"	300+32	126
PU-32	PIPE UNDERDRAINS 4"	302+92	92
PU-33	PIPE UNDERDRAINS 4"	303+95	69
PU-34	PIPE UNDERDRAINS 4"	304+91	122
PU-35	PIPE UNDERDRAINS 4"	307+58	139
PU-36	PIPE UNDERDRAINS 4"	311+66	130
PU-37	PIPE UNDERDRAINS 4"	315+01	196
PU-38	PIPE UNDERDRAINS 4"	315+17	213
PU-39	PIPE UNDERDRAINS 4"	649+12	48
PU-40	PIPE UNDERDRAINS 4"	652+85	48
PU-41	PIPE UNDERDRAINS 4"	317+41	141
PU-42	PIPE UNDERDRAINS 4"	316+50	83
PU-43	PIPE UNDERDRAINS 4"	317+41	141
PU-44	PIPE UNDERDRAINS 4"	111+00	24
PU-45	PIPE UNDERDRAINS 4"	120+55	20
PU-46	PIPE UNDERDRAINS 4"	120+95	20
PU-47	PIPE UNDERDRAINS 4"	117+00	20

NOTE:
PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.

PLAN
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ALIGNMENT CHECKED
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NO. ____
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PROFILE
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STRUCTURE NOTAT'NS CHKD
NOTE BOOK
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BY
DATE

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	DRAWN DW	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED SS	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

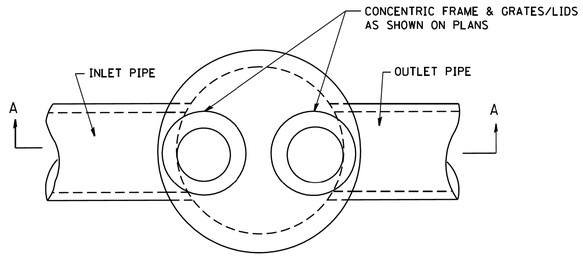
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURE SCHEDULE

SCALE: NS | SHEET 9 OF 9 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	192

CONTRACT NO. 60T75
ILLINOIS FED. AID PROJECT



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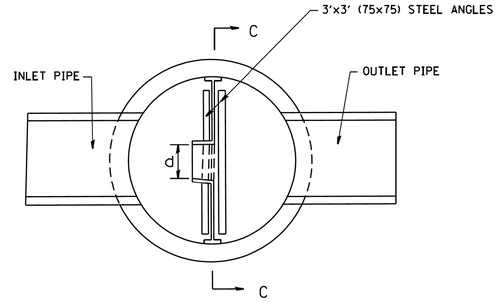
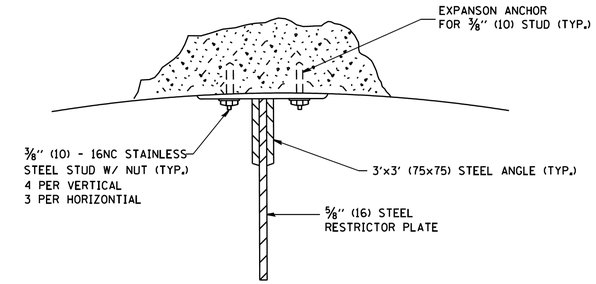
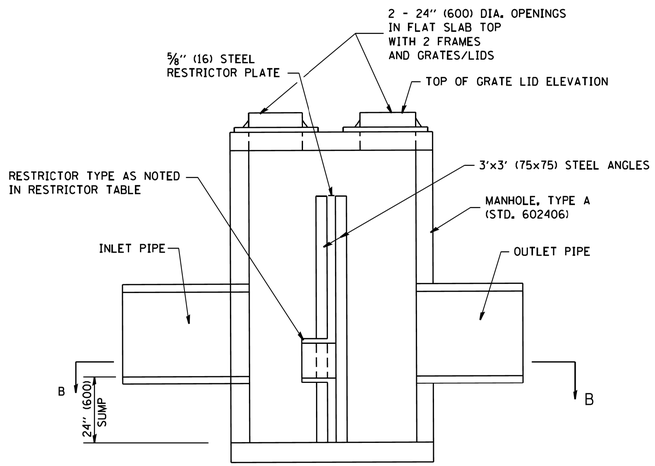


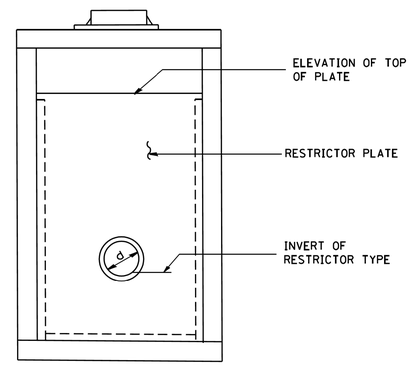
SECTION B-B



ANGLE FASTENER DETAIL



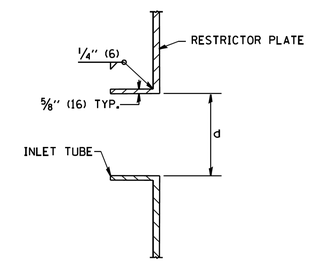
SECTION A-A



SECTION C-C

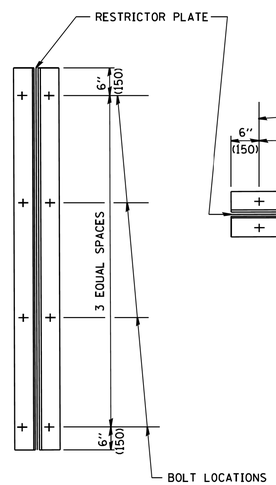
NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH

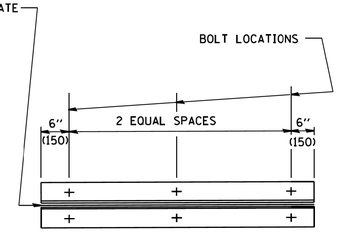


INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
104+86	6'	TYPE 1 FR & CL	3	6.0	724.00	728.50
131+10	6'	TYPE 1 FR & CL	3	6.7	713.00	719.00
169+18	6'	TYPE 1 FR & CL	3	6.0	736.00	740.80



TYPICAL VERTICAL ANGLES
LOOKING TOWARD MANHOLE WALL



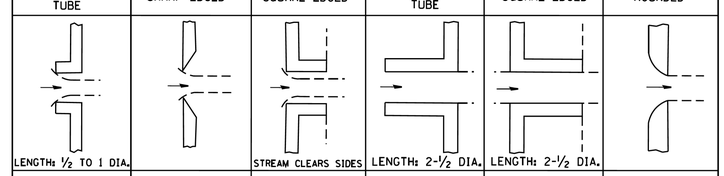
TYPICAL HORIZONTIAL
ANGLES LOOKING TOWARD
BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
					
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR
AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = 35361	DESIGNED SS	REVISED -	
	DRAWN SS	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED DW	REVISED	
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: NS | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	193

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | BM. NOTED | STRUCTURE NOTAT'NS CHKD | NOTE BOOK | NO. | BY | DATE

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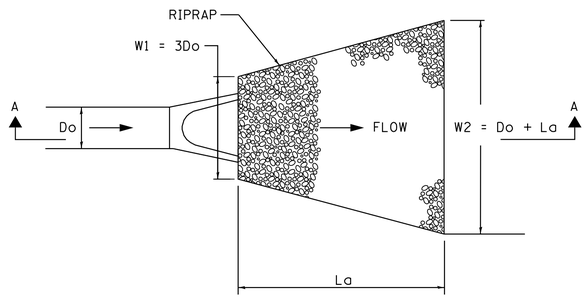
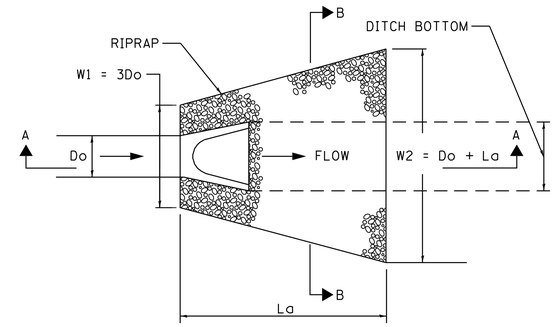
ROCK OUTLET PROTECTION



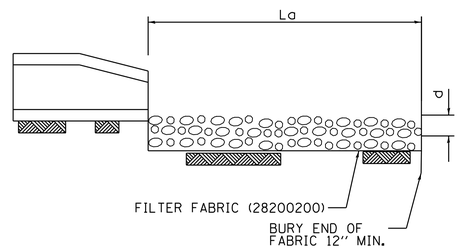
DETAIL 'A'

RIPRAP OUTLET PROTECTION TO FLAT AREA
OR PERPENDICULAR TO DITCH

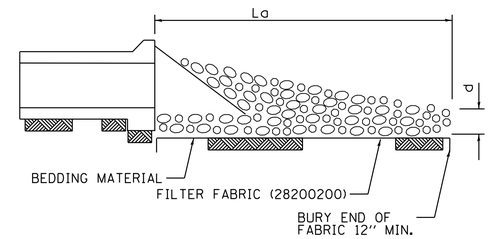


DETAIL 'B'

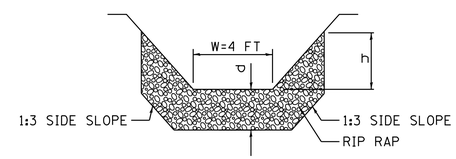
RIPRAP OUTLET PROTECTION TO WELL-DEFINED
CHANNEL-IN-LINE WITH OUTLET



SECTION A-A



SECTION A-A



SECTION B-B

RIPRAP OUTLET PROTECTION										
STRUCTURE NUMBER	RIPRAP CLASS	PIPE DIAMETER, Do (INCHES)	La (FT)	RIPRAP THICKNESS, d (INCHES)	W1 (FT)	W2 (FT)	AREA (SQ YD)	VOLUME (CU YD)	DETAIL	FILTER FABRIC AREA (SQ YD)
1-1	A3	12	10	15	3.0	11.0	7.8	3.2	''A''	12.0
1-17	A3	15	12	15	3.75	13.3	11.3	4.7	''A''	16.3
2-25	A3	24	27	15	6.0	29.0	52.5	21.9	''A''	62.8
2-37	A3	15	12	15	3.75	13.3	11.3	4.7	''B''	16.3
3-1	A4	42	33	15	10.5	36.5	86.2	35.9	''A''	99.2
4-9	A3	15	12	15	3.75	13.3	11.3	4.7	''A''	16.3
4-12	A4	15	12	15	3.75	13.3	11.3	4.7	''A''	16.3
5-7	A3	12	10	15	3.00	11.0	7.8	3.2	''B''	12.0
6-2	A4	48	24	15	12.0	28.0	53.3	22.2	''B''	63.6
6-4	A4	48	24	15	12.0	28.0	53.3	22.2	''B''	63.6
6-8	A4	48	24	15	12.0	28.0	53.3	22.2	''B''	63.6
7-2	A3	24	16	15	6.0	18.0	21.3	3.24	''B''	10.0
7-6	A3	24	16	15	6.0	18.0	21.3	3.24	''B''	10.0

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. ____ — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHKD — NOTE BOOK NO. ____ — BY — DATE

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USER NAME = 35361	DESIGNED SS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN SS	REVISED			344	39 R	LAKE	510	194
PLOT SCALE = 50.0000 ' / in.	CHECKED DW	REVISED					CONTRACT NO. 60T75		
PLOT DATE = 9/18/2017	DATE 02/02/2017	REVISED		SCALE: NS / SHEET 2 OF 2 SHEETS / STA. TO STA.			ILLINOIS FED. AID PROJECT		

SCHEDULE OF WATER MAIN AND RELATED ITEMS

STATION FROM	STATION TO	TRENCH BACKFILL CU YD	DUCTILE IRON WATER MAIN 6" FOOT	DUCTILE IRON WATER MAIN 12" FOOT	WATER VALVES 12 EACH	FIRE HYDRANTS TO BE ADJUSTED EACH	VV TA 5 DIA T1F CL EACH	D I WTR MN FITTINGS POUND	WM LINE STOP 10 EACH	WM LINE STOP 12 EACH	CUT & CAP EX 10 WM EACH	CUT & CAP EX 12 WM EACH	CONN TO EX W MAIN 12 EACH	VV REMOVED EACH	PRESS CONNECT 12X10 EACH	PRESS CONNECT 12X12 EACH
PROPOSED US 45																
107+00	120+00	136	26	678	1		1	2,505					2	1		
123+00	126+00	70	7	210	1		1	1,840					2	1		
127+00	134+00	-	4	52		1		765					2			
HAVEN LANE																
140+00	142+00	86		140				-					2			
PROPOSED GRASS LAKE ROAD																
306+40	306+40	-	16	175				325					2			
PROPOSED INDEPENDENCE BLVD																
346+00	652+00	431	6	253	2		2	3,075	1	1	1	2	1	1	1	1
TOTAL		723	59	1,508	4	1	4	8,510	1	1	1	2	11	3	1	1

WATER MAIN REMOVAL, 10"

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)
PROPOSED US ROUTE 45				
161+07	73' LT	161+83	61' LT	76
			TOTAL	76

WATER MAIN REMOVAL, 12"

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)
PROPOSED US ROUTE 45				
110+50	68' LT	115+05	37.5' LT	446
118+22	49.5' RT	118+86	49.5' RT	96
119+17	37.5' LT	119+36	82.5' LT	48
123+08	71' LT	123+63	37.5' LT	65
124+88	37.5' RT	125+43	67.5' RT	63
127+60	81' RT	128+55	79' RT	96
PROPOSED HAVEN LANE				
801+62	24.5' RT	803+02	23' RT	140
PROPOSED GRASS LAKE ROAD				
306+62	79.5' RT	306+10	88.5' LT	175
PROPOSED INDEPENDENCE BLVD				
646+70	22' LT	647+46	19' LT	75
648+68	9' LT	649+36	4' LT	60
			TOTAL	1,264

WATER MAIN TO BE ABANDONED, 12"

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)
PROPOSED US ROUTE 45				
115+05	37.5' LT	118+22	49.5' RT	329
118+86	49.5' RT	119+17	37.5' LT	93
123+63	37.5' LT	124+88	37.5 RT	146
PROPOSED INDEPENDENCE BLVD				
647+46	19' LT	648+68	9' LT	122
649+36	4' LT	651+76	27' LT	242
			TOTAL	932

CASING PIPE, OPEN CUT, 24" STEEL / TRENCH BACKFILL

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)	TOTAL (CU YD)
PROPOSED MILLBURN ROAD					
316+12	48.0' LT	316+12	44.0' RT	92	163
PROPOSED GRASS LAKE ROAD					
306+16	63.5' LT	306+37	57.5' RT	127	157
			TOTAL	219	320

FIRE HYDRANTS TO BE RELOCATED

FROM	OFFSET	TO	OFFSET	TOTAL (EACH)
PROPOSED US ROUTE 45				
112+63	70' LT	112+62	66' LT	1
116+39	10' LT	116+40	58.5' LT	1
118+66	65' RT	118+35	59' LT	1
123+04	70' LT	123+02	54.5' LT	1
133+81	83' RT	136+04	76' RT	1
PROPOSED GRASS LAKE ROAD				
306+24	61' RT	306+49	52' RT	1
PROPOSED INDEPENDENCE BLVD				
646+54	17.5' LT	646+30	20.5' LT	1
649+74	3.5' RT	648+93	36.5' LT	1
			TOTAL	8

DUCTILE IRON WATER MAIN 10" RESTRAINED JOINT PIPE

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)
PROPOSED US ROUTE 45				
161+07	73' LT	162+17	93' LT	139
			TOTAL	139

DUCTILE IRON WATER MAIN 12" RESTRAINED JOINT PIPE

FROM	OFFSET	TO	OFFSET	TOTAL (FOOT)
PROPOSED US ROUTE 45				
114+39	48' LT	115+11	67' LT	76
118+19	67' LT	119+36	82' LT	118
123+08	71' LT	123+09	48' LT	24
123+09	5' LT	123+55	67.5' RT	117
125+23	67.5' RT	125+43	67.5' RT	20
127+50	81' RT	128+04	80' RT	54
PROPOSED INDEPENDENCE BLVD				
646+71	22' LT	647+62	27' LT	91
648+33	37' LT	648+73	39.5' LT	40
650+55	39.5' LT	651+76	27' LT	125
			TOTAL	665

PLAN — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. ____ — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD — BY — DATE

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PLOT DATE = 3/13/2018	DATE 02/02/2017	REVISED	

WATER MAIN SCHEDULE OF QUANTITIES

SCALE: NS | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	195

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

WATERMAIN CONSTRUCTION NOTES

1. REFER TO "SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS" MANUAL AND VILLAGE OF LINDENHURST STANDARDS.

2. THE VILLAGE OF LINDENHURST ENGINEERING AND PUBLIC WORKS DEPARTMENTS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, SHUTDOWNS OR DISRUPTIONS OF SERVICE.

3. CONTRACTORS TO NOTIFY RESIDENTS OR BUSINESSES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, SHUTDOWNS OR DISRUPTIONS OF SERVICE.

4. WATER MAINS TO BE INSTALLED WITH A MINIMUM OF 5.5 FEET OF COVER UNLESS OTHERWISE SHOWN ON DRAWINGS.

5. THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OWNERS OF THE FACILITIES AND THE ENGINEER AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. CONTRACTOR REQUIRED TO LOCATE ALL UTILITIES IN THE FIELD PRIOR TO STARTING WORK.

6. PROTECT EXISTING UNDERGROUND UTILITIES AND WATER SERVICE LINES FROM DAMAGE. MAKE EXPLORATIONS AS NECESSARY TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES AND SERVICE LINES. EXERCISE CARE DURING THE PROGRESS OF WORK TO PREVENT DAMAGE TO EXISTING UNDERGROUND FACILITIES.

7. PROVIDE TRAFFIC CONTROL AS REQUIRED IN ACCORDANCE WITH THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS"; AND LOCAL GOVERNMENTAL AUTHORITY DURING ALL PHASES OF CONSTRUCTION.

8. IF TRENCH DEWATERING IS REQUIRED, PROTECT ADJOINING PROPERTIES AND HOSE DISCHARGE LOCATIONS FROM EROSION. USE SILT BAGS ON DISCHARGE HOSES FOR SEDIMENTATION CONTROL.

9. REPLACE EXISTING DRAIN TILES DISTURBED DURING TRENCHING OPERATIONS WITH SAME SIZE P.V.C. (SDR 26) PLASTIC PIPE AND NON-SHEAR, FLEXIBLE, STAINLESS STEEL BANDED COUPLINGS.

10. DO NOT STORE MATERIALS, STRUCTURES, OR MACHINES WHERE THEY WILL OBSTRUCT STREET OR DRIVEWAY SIGHTLINES.

11. RE-ESTABLISH EXISTING DRAINAGE PATTERNS IMMEDIATELY AFTER BACKFILLING AND DURING FINAL GRADING.

12. ALL DUCTILE IRON PIPE, FITTINGS, VALVES, FIRE HYDRANTS AND SERVICE CONNECTIONS SHALL BE WRAPPED WITH POLYETHYLENE SHEETING OR TUBES.

13. COVER ALL NEW FIRE HYDRANTS WITH BLACK PLASTIC BAGS AFTER INSTALLATION AND UNTIL NEW WATER MAIN IS IN SERVICE.

14. EXISTING VALVES ARE TO BE RESTRAINED OR BRACED AS REQUIRED PRIOR TO CLOSING VALVES FOR CONNECTION OF PROPOSED WATER MAINS TO EXISTING WATER MAINS OR FOR ABANDONMENT OF EXISTING WATER MAINS.

15. WATER MAIN PIPE SHALL BE OPEN CUT TRENCHES WITH DUCTILE IRON PIPE COMPLYING WITH A.N.S.I. A 21.51, THICKNESS CLASS 52; WITH JOINTS COMPLYING WITH A.N.S.I. A 21.11; AND WITH CEMENT LINING COMPLYING WITH A.N.S.I. A 21.4 / A.W.W.A. C104, STANDARD THICKNESS.

16. GRANULAR PIPE BEDDING SHALL BE IDOT CA-6 CRUSHED STONE AND CONFORM TO THE TYPICAL TRENCH SECTION.

18. ABANDON EXISTING WATER MAINS, FIRE HYDRANTS, VALVES AND VALVE VAULTS AND BOXES AFTER ALL NEW WATER MAIN HAS BEEN INSTALLED, TESTED, DISINFECTED, AND ACCEPTED FOR USE BY THE VILLAGE OF LINDENHURST AND AFTER ALL WATER SERVICES HAVE BEEN CONNECTED TO THE NEW WATER MAINS. FIRE HYDRANTS, VALVE BOXES, VALVE VAULT FRAMES AND COVERS REMOVED DURING WATER MAIN ABANDONMENT WORK SHALL BE DELIVERED TO THE VILLAGE OF LINDENHURST PUBLIC WORKS GARAGE.

19. ALL TRENCHES WITHIN THE PAVEMENT, OR WITHIN TWO FEET OF THE EDGE OF PAVEMENT, OF ALL STREETS SHALL BE BACKFILLED WITH TRENCH BACKFILL.

20. WHERE A LINE STOP, PLUG/CAP AND CONCRETE THRUST BLOCK IS CALLED FOR ON THE PLANS, CONTRACTOR SHALL CUT A SHORT SECTION OF WATER MAIN OUT OF THE WATER MAIN TO BE IMMEDIATELY ABANDONED OR REMOVED AND INSTALL THE CONCRETE THRUST BLOCK AGAINST THE PLUG/CAP AND THE CUT END OF THE WATER MAIN TO BE IMMEDIATELY ABANDONED OR REMOVED. ALTERNATIVELY, THE CONTRACTOR MAY INSTALL A DEDICATED, SPECIALLY DESIGNED, PERMANENT LINE STOP TO REMAIN IN THE WATER MAIN TO BE ABANDONED AFTER THE NEW WATER MAIN IS IN SERVICE.

21. CONTRACTOR SHALL INSTALL WATER MAIN PRIOR TO UTILITY COMPANIES INSTALLING NEW OR RELOCATED UTILITIES PARALLEL TO WATER MAIN.

22. NO TEMPORARY STOCKPILING OF EXCAVATED MATERIALS IS ALLOWED WITHIN THE RIGHT-OF-WAY. REMOVE TRENCH EXCAVATION SPOILS FROM THE SITE AS THE WORK PROGRESSES.

23. PROVIDE PROPERTY OWNERS ALONG AND IMMEDIATELY ADJACENT TO THE WORK ADVANCE NOTICE OF THE CONSTRUCTION AND OF ALL ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAY AND ACCESS. MAKE ALL DRIVEWAYS ACCESSIBLE AT THE END OF EACH WORK DAY.

24. ALL FITTINGS, VALVES AND FIRE HYDRANTS SHALL INCLUDE RESTRAINED JOINTS AND CONCRETE THRUST BLOCKS.

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
NOTE BOOK NO. ____	CADD FILE NAME ____		

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
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NOTE BOOK NO. ____	STRUCTURE NOTATNS CHKD		

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PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

WATER MAIN CONSTRUCTION NOTES

SCALE: NS | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	196

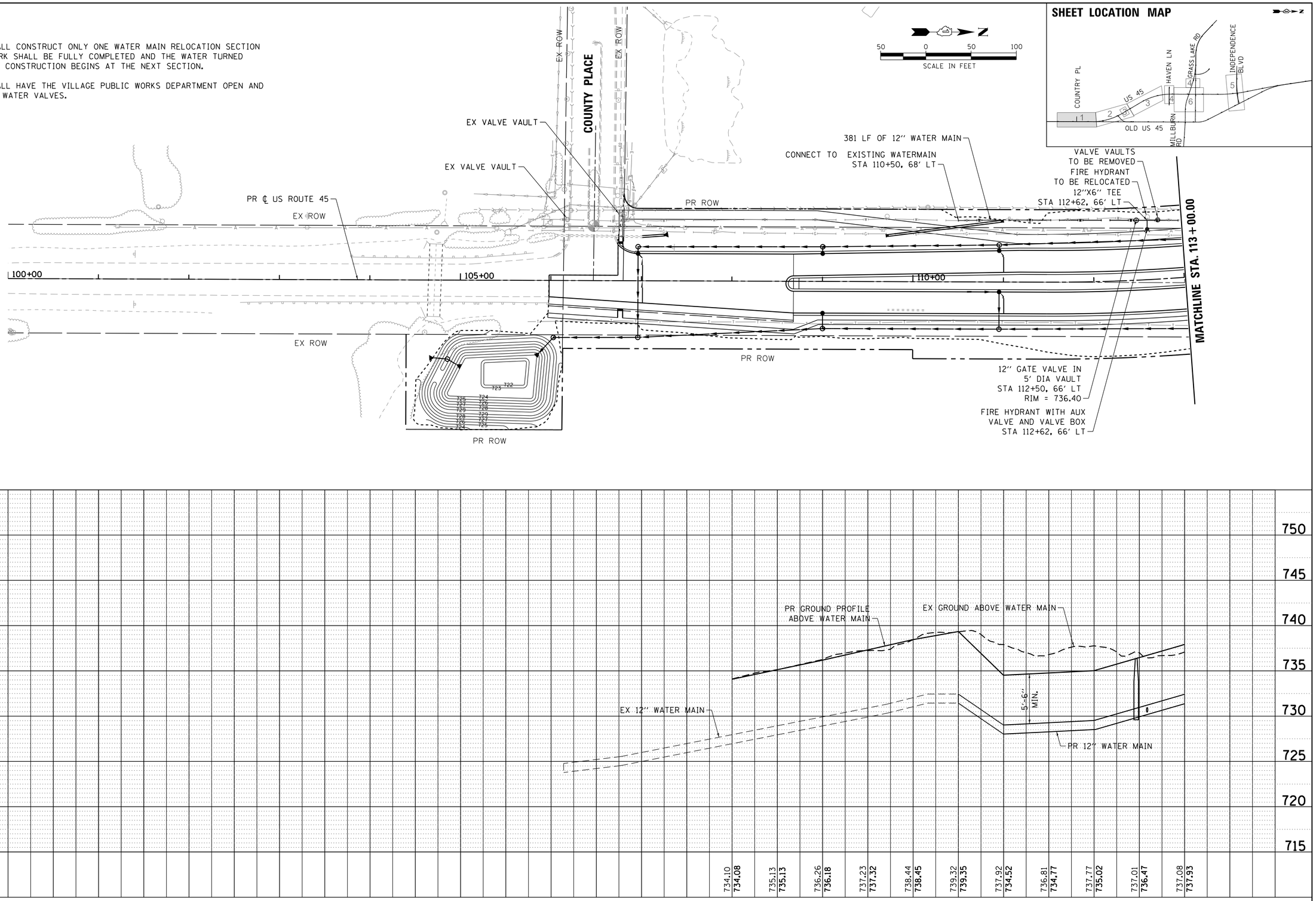
CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT

NOTES:

1. CONTRACTOR SHALL CONSTRUCT ONLY ONE WATER MAIN RELOCATION SECTION AT A TIME. WORK SHALL BE FULLY COMPLETED AND THE WATER TURNED BACK ON BEFORE CONSTRUCTION BEGINS AT THE NEXT SECTION.

2. CONTRACTOR SHALL HAVE THE VILLAGE PUBLIC WORKS DEPARTMENT OPEN AND CLOSE EXISTING WATER VALVES.



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NOTE BOOK	CADD FILE NAME		
NO.			

PROFILE		BY	DATE
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PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN AND SANITARY SEWER – PLAN & PROFILES
US ROUTE 45

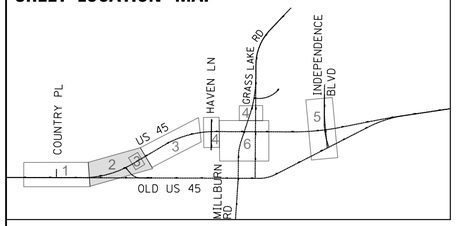
SCALE: 1"=50' | SHEET 1 OF 6 SHEETS | STA. 100+00 TO STA. 113+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	197

CONTRACT NO. 60T75

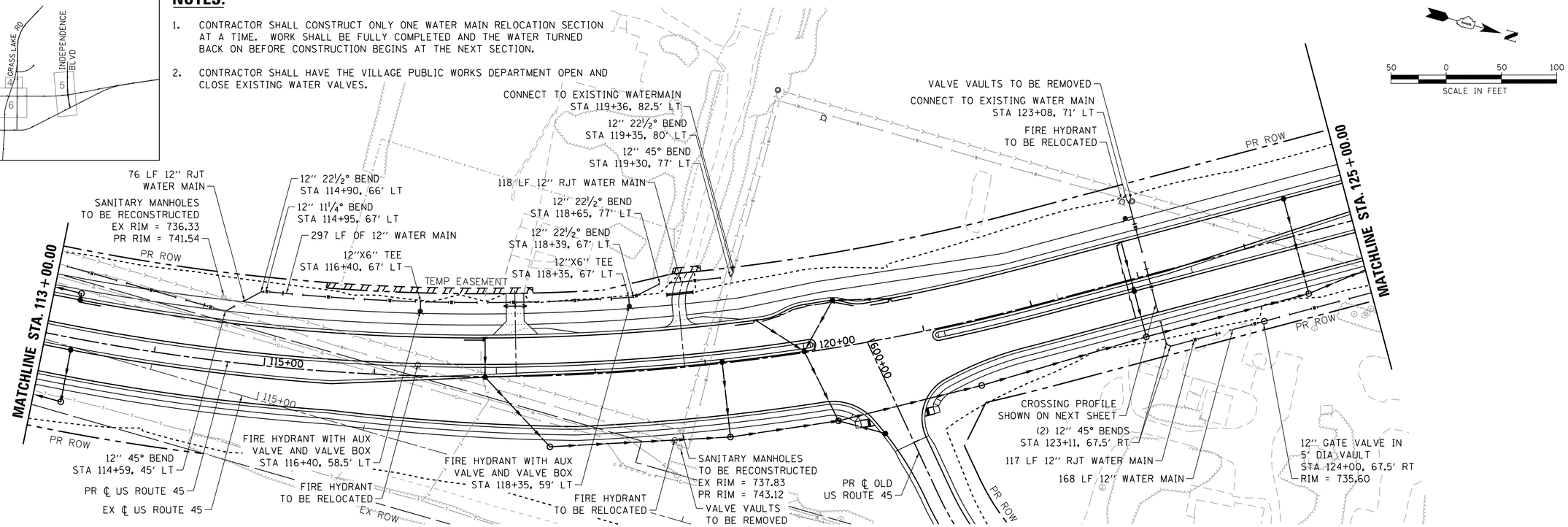
ILLINOIS FED. AID PROJECT

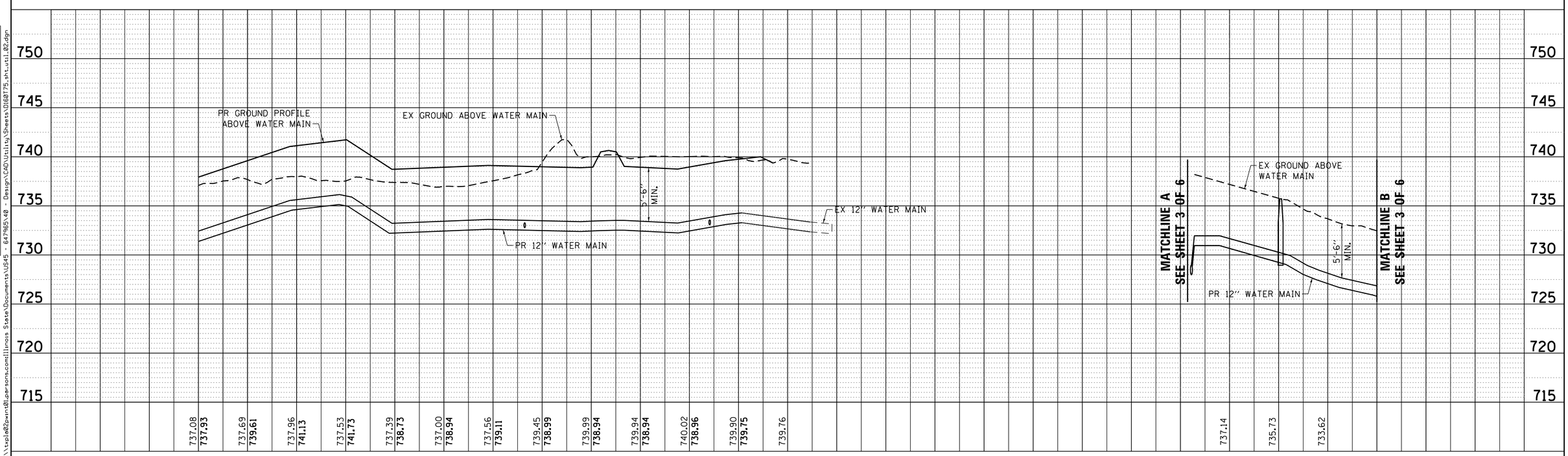
SHEET LOCATION MAP



NOTES:

1. CONTRACTOR SHALL CONSTRUCT ONLY ONE WATER MAIN RELOCATION SECTION AT A TIME. WORK SHALL BE FULLY COMPLETED AND THE WATER TURNED BACK ON BEFORE CONSTRUCTION BEGINS AT THE NEXT SECTION.
2. CONTRACTOR SHALL HAVE THE VILLAGE PUBLIC WORKS DEPARTMENT OPEN AND CLOSE EXISTING WATER VALVES.





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ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CHKD		
NOTE BOOK NO.		

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	DRAWN SJ	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED VW	REVISED	
PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

WATER MAIN AND SANITARY SEWER – PLAN & PROFILES
US ROUTE 45

SCALE: 1"=50' | SHEET 2 OF 6 SHEETS | STA. 113+00 TO STA.125+00

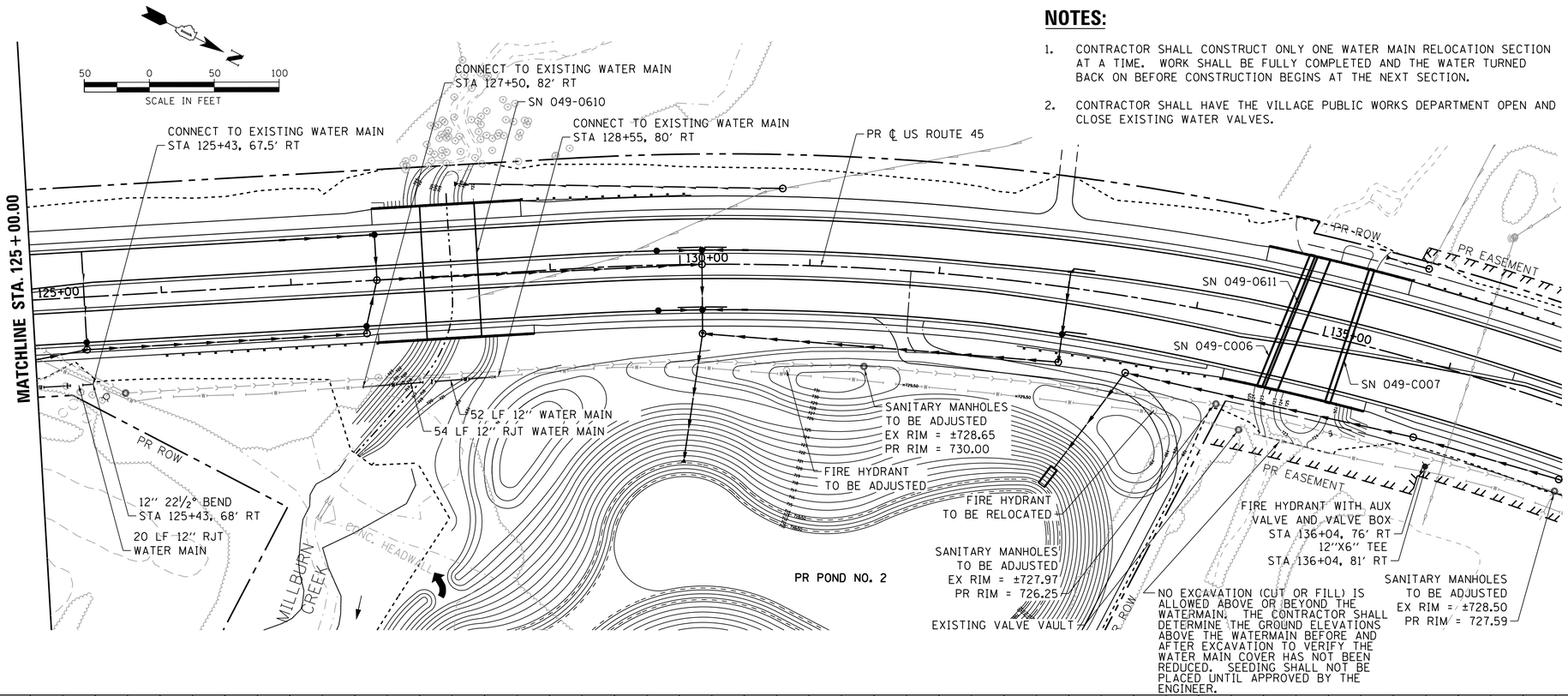
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	198

CONTRACT NO. 60T75

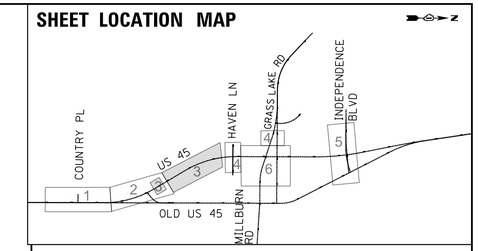
ILLINOIS FED. AID PROJECT

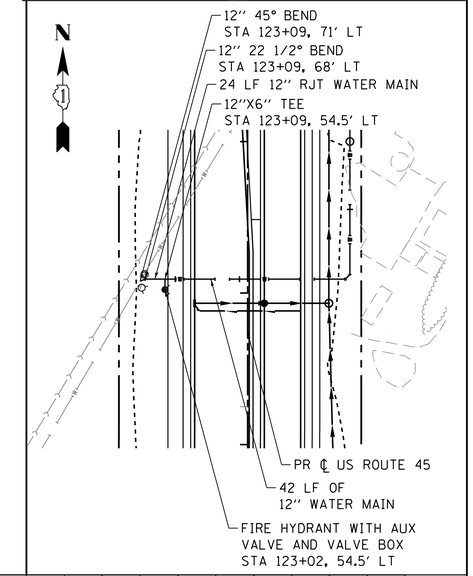
NOTES:

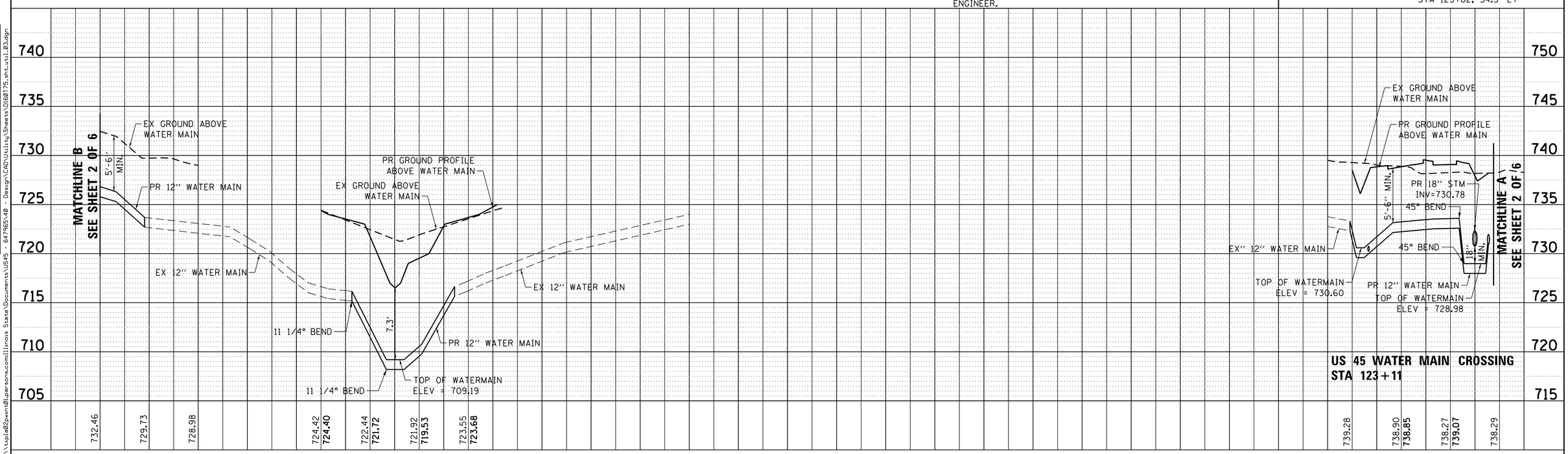
1. CONTRACTOR SHALL CONSTRUCT ONLY ONE WATER MAIN RELOCATION SECTION AT A TIME. WORK SHALL BE FULLY COMPLETED AND THE WATER TURNED BACK ON BEFORE CONSTRUCTION BEGINS AT THE NEXT SECTION.
2. CONTRACTOR SHALL HAVE THE VILLAGE PUBLIC WORKS DEPARTMENT OPEN AND CLOSE EXISTING WATER VALVES.



SHEET LOCATION MAP







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	DRAWN SJ	REVISED	
PLOT SCALE = 50.0000 ' / in.	CHECKED VW	REVISED	
PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN AND SANITARY SEWER – PLAN & PROFILES
US ROUTE 45

SCALE: 1"=50' | SHEET 3 OF 6 SHEETS | STA. 125+00 TO STA.137+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	199
		CONTRACT NO. 60T75		
		ILLINOIS FED. AID PROJECT		

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

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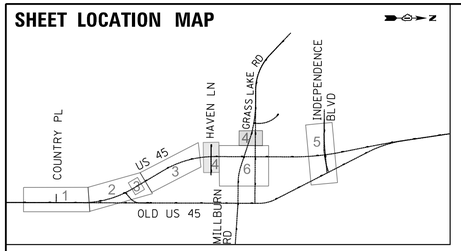
SHEET LOCATION MAP



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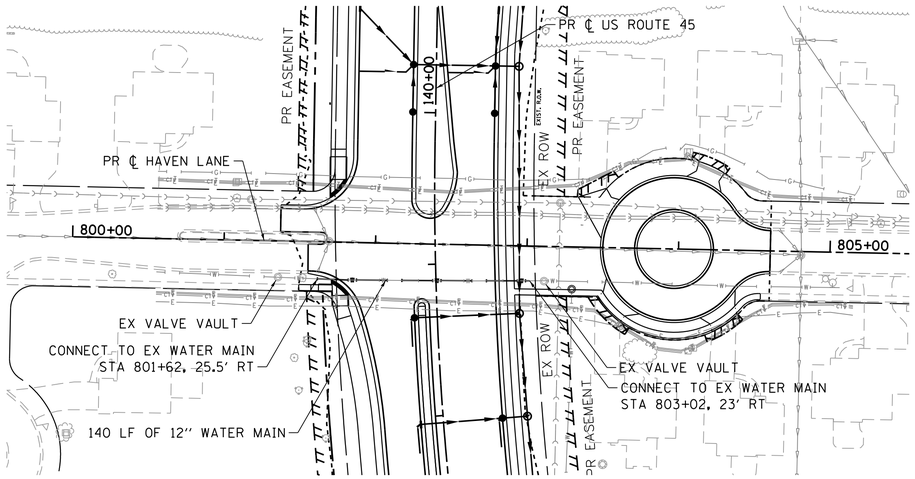
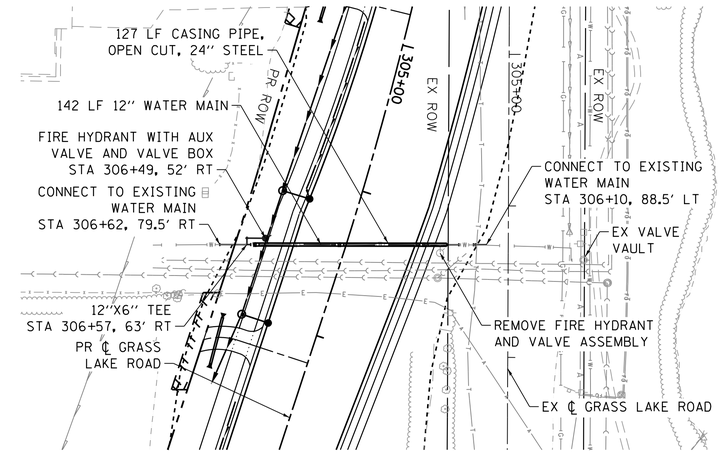
50 0 50 100
SCALE IN FEET

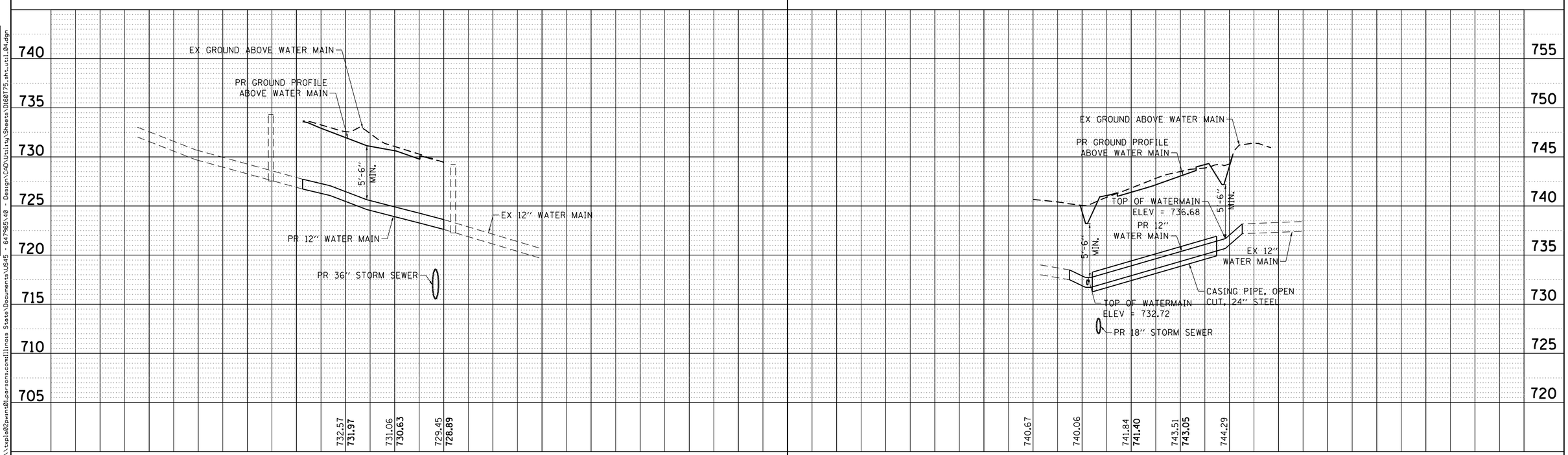
NOTES:

1. CONTRACTOR SHALL CONSTRUCT ONLY ONE WATER MAIN RELOCATION SECTION AT A TIME. WORK SHALL BE FULLY COMPLETED AND THE WATER TURNED BACK ON BEFORE CONSTRUCTION BEGINS AT THE NEXT SECTION.
2. CONTRACTOR SHALL HAVE THE VILLAGE PUBLIC WORKS DEPARTMENT OPEN AND CLOSE EXISTING WATER VALVES.

50 0 50 100
SCALE IN FEET







PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTAT'NS CHK'D		
NOTE BOOK NO.		

FILE NAME = pw:\\xpio02pwint01.parsons.com:Illinois State\Documents\US45 - 647965\40 - Design\CAD\Utility\Sheets\0160T75_sht_util_04.dgn

USER NAME = 35361	DESIGNED SS	REVISED -
	DRAWN SJ	REVISED
PLOT SCALE = 50.0000 ' / in.	CHECKED VW	REVISED
PLOT DATE = 12/6/2017	DATE 02/02/2017	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN AND SANITARY SEWER – PLAN & PROFILES
US ROUTE 45

SCALE: 1"=50' | SHEET 4 OF 6 SHEETS | STA. 137+00 TO STA.150+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	39 R	LAKE	510	200

CONTRACT NO. 60T75

ILLINOIS FED. AID PROJECT