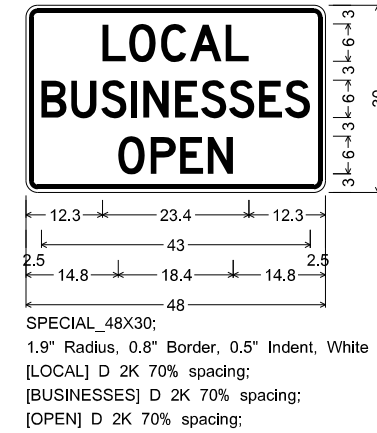


- NOTES:**
1. THE COMMERCIAL ENTRANCE LOCATED ON WEST SIDE OF 104TH AVE APPROXIMATELY 1100' SOUTH OF 159TH ST SHALL BE KEPT OPEN FOR NORTHBOUND IN AND SOUTHBOUND OUT FOR ALL TIME DURING CLOSURE OF 104TH AVE.
 2. SPACING OF SIGNS SHALL BE PER DISTRICT DETAIL TC-21.
 3. THE SIGN "LOCAL BUSINESSES OPEN" SHALL BE PLACED ON INDEPENDENT SIGN POSTS (NOT ATTACHED TO TYPE III BARRICADES) AT THE POINTS WHERE THE ROAD IS OPEN TO LOCAL TRAFFIC ONLY.

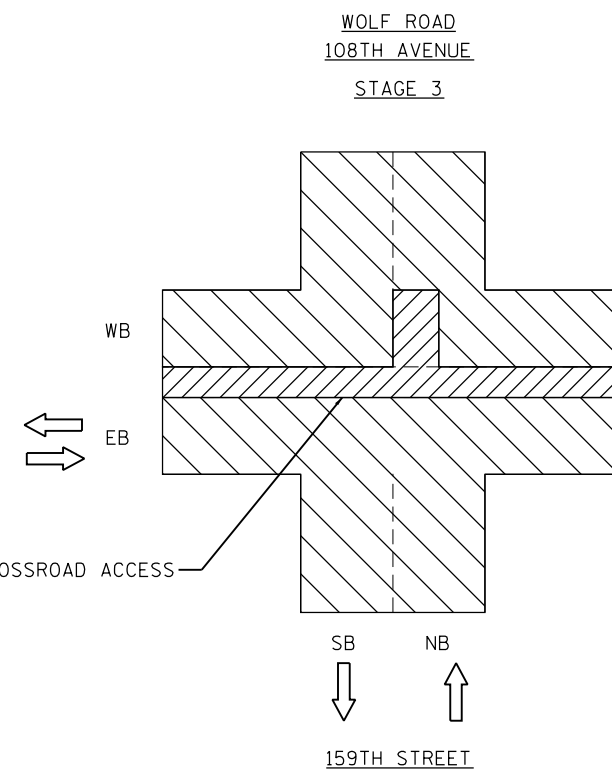
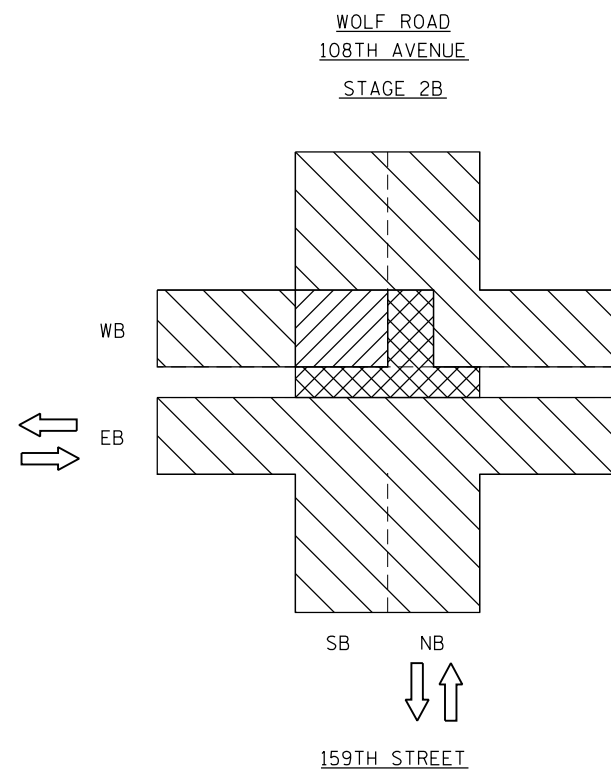
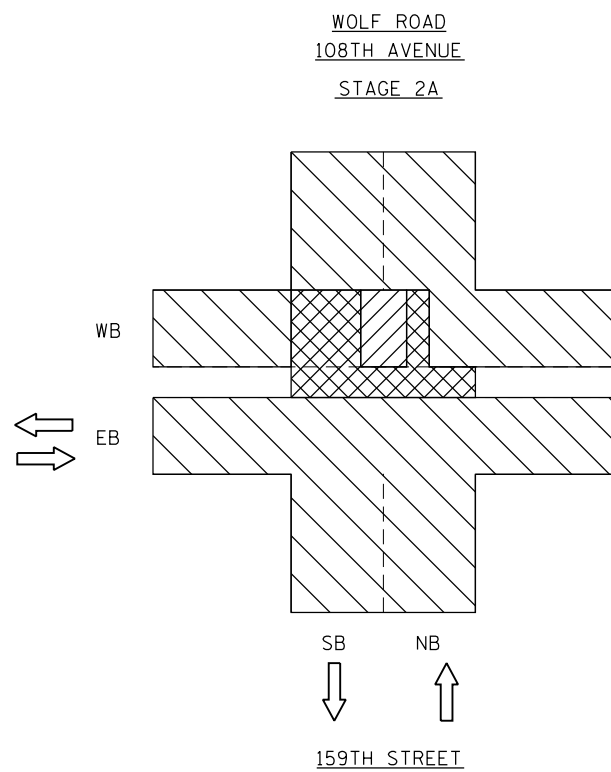
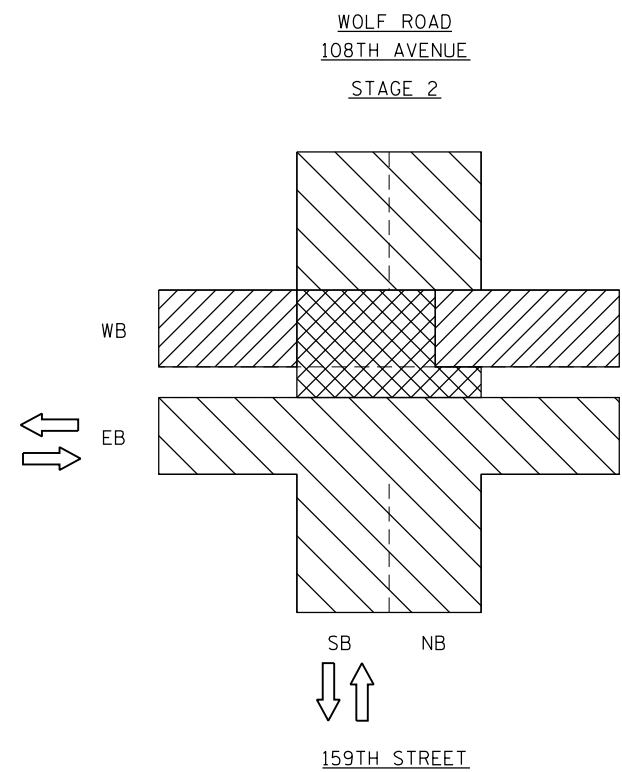
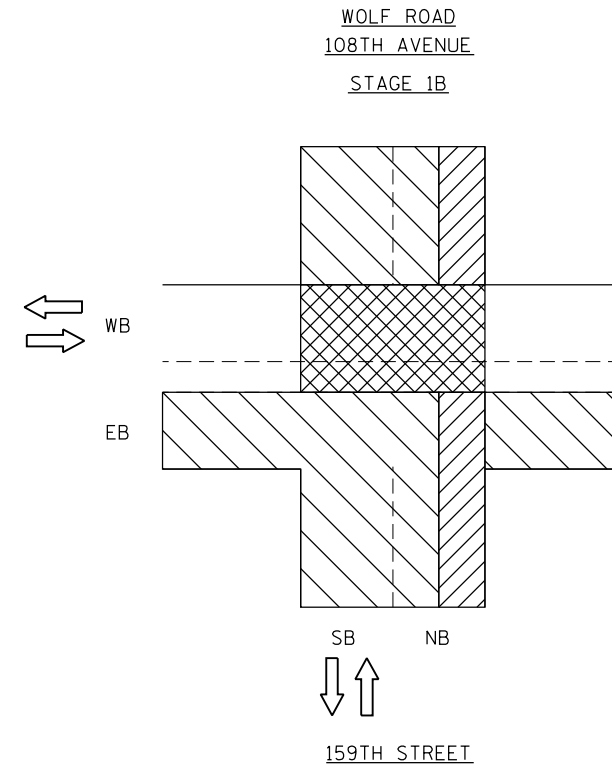
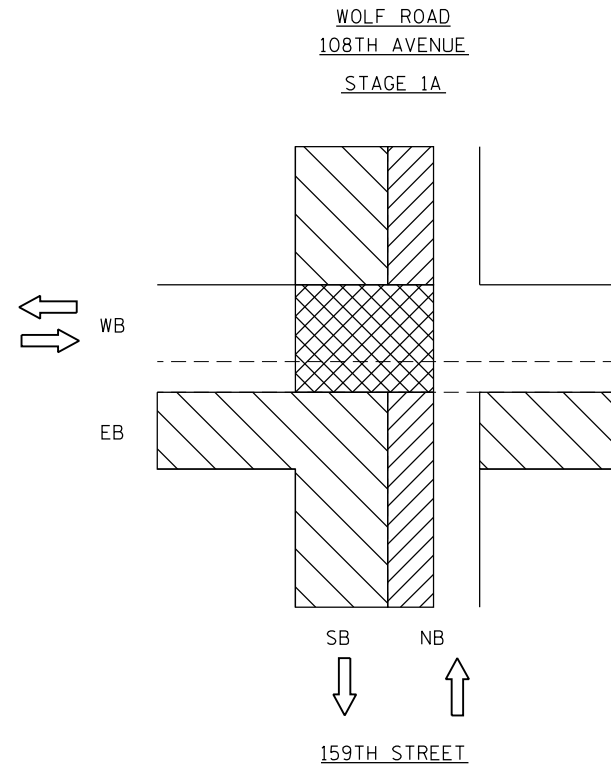
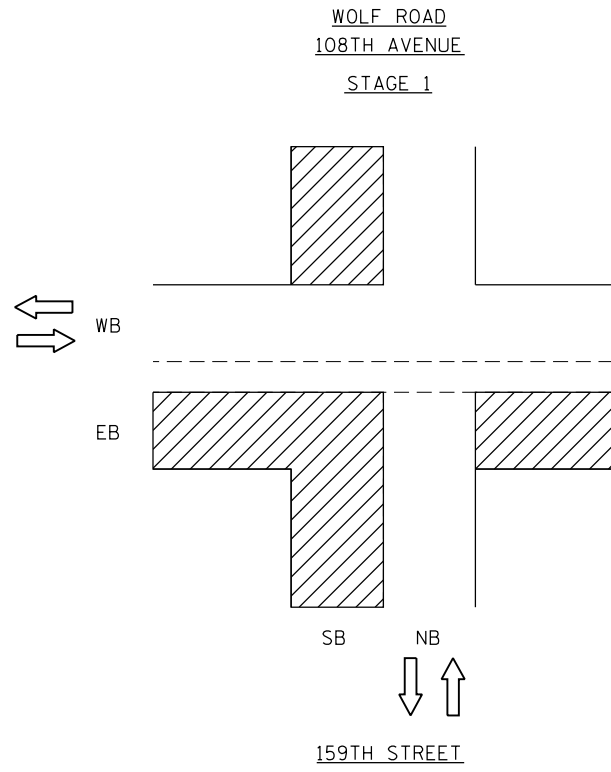
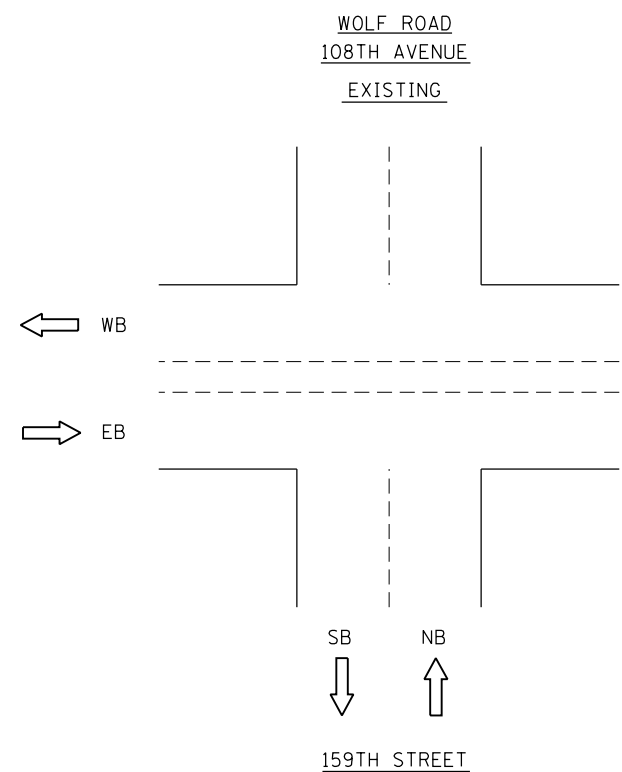
LEGEND	
	WORK AREA
10	KEY NO.
	CONSTRUCTION SIGNS
	TYPE III BARRICADES WITH FLASHING LIGHTS
	DIRECTION OF DETOURED TRAFFIC
	CHANGEABLE MESSAGE SIGN



KEY NO.	SIGN
1	 NORTH M3-1(O) 16"x12"
2	 SOUTH M3-3(O) 16"x12"
3	 DETOUR M4-9 30"x16"
4	 DETOUR M4-9R 30"x16"
5	 DETOUR M4-9L 30"x16"
6	 DETOUR M4-9R ◻ 30"x16"
7	 DETOUR M4-9L ◻ 30"x16"
8	 104TH AVE. W17-1100(O) VAR x 6"
9	 ROAD CLOSED AHEAD W20-3 48"x48"

KEY NO.	SIGN
10	 DETOUR AHEAD W20-2 48"x48"
11	 END DETOUR M4-8◻ 24"x 18"
12	 R3-1 30"x30"
13	 R3-2 30"x30"
14	 ROAD CLOSED R11-2 48"x 30"
15	 ROAD CLOSED X.X MILES AHEAD LOCAL TRAFFIC ONLY R11-3 60"x30"
16	 ROAD CLOSED 500 FT W20-3 48"x48"
17R	 DETOUR M4-10R 48"x18"
17L	 DETOUR M4-10L 48"x18"
18	 104TH AVE AT 159TH ST WILL BE CLOSED XX-XX-XX CHANGEABLE MESSAGE SIGN
19	 LOCAL BUSINESSES OPEN SPECIAL 48"x 30" (SEE DETAIL)

* PLACE CHANGEABLE MESSAGE SIGNS WHERE SHOWN IN PLANS PRIOR TO CLOSURE DATE. ONCE ROAD IS CLOSED AND DETOUR POSTED, REMOVE CHANGEABLE MESSAGE SIGNS.



- LEGEND
- TEMPORARY PAVEMENT
 - PAVEMENT CONSTRUCTED DURING STAGE
 - PAVEMENT CONSTRUCTED FROM PREVIOUS STAGE
 - TRAFFIC LOCATION (SEE MOT PLANS FOR DETAILS)

FILE NAME = D160L72-sht-typical-MOT.dgn	USER NAME = rdonley	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1:100	CHECKED -	REVISED -
MODELNAME	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -

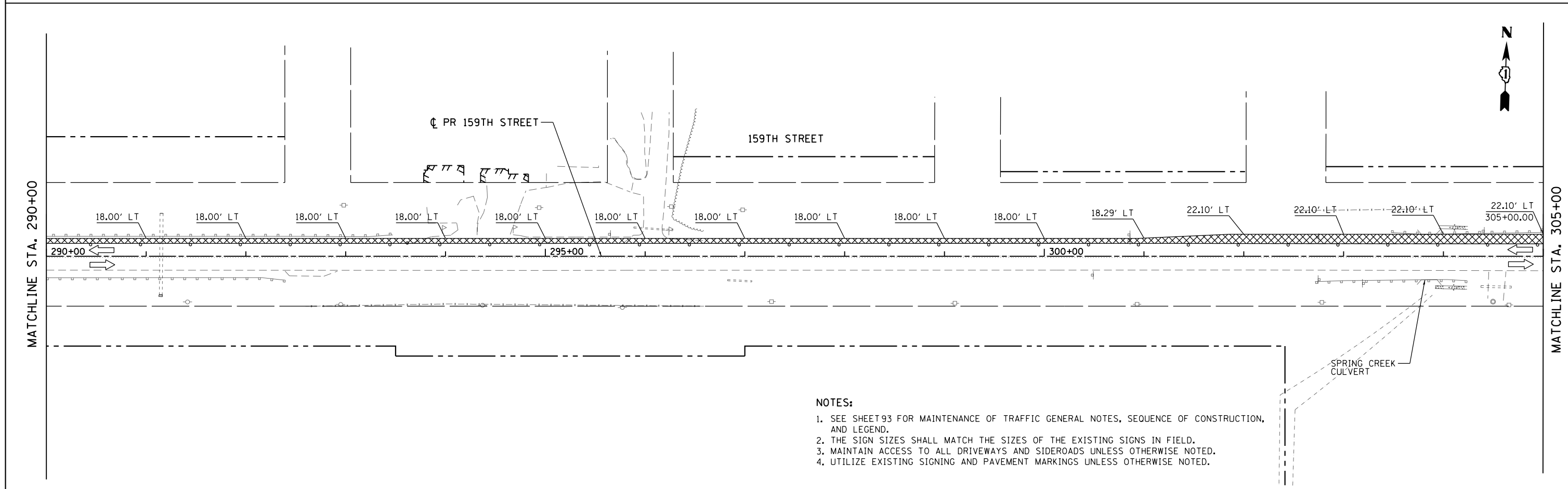
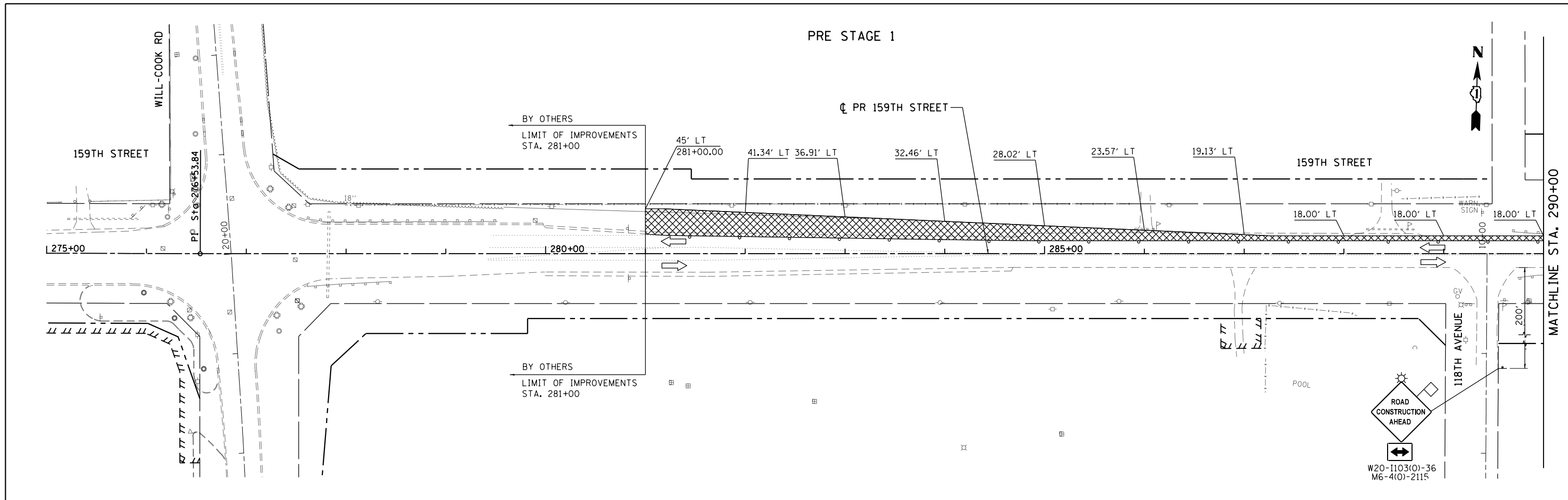
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
INTERSECTION STAGING DETAILS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	102
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	

PRE STAGE 1



NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. UTILIZE EXISTING SIGNING AND PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

FILE NAME = D:\160L72-sht-staging-PreStage1.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -
	PLOT SCALE = 1:100	DRAWN - JPW	REVISED -
	PLOT DATE = 10/22/2014	CHECKED -	REVISED -
		DATE - 10/28/14	REVISED -

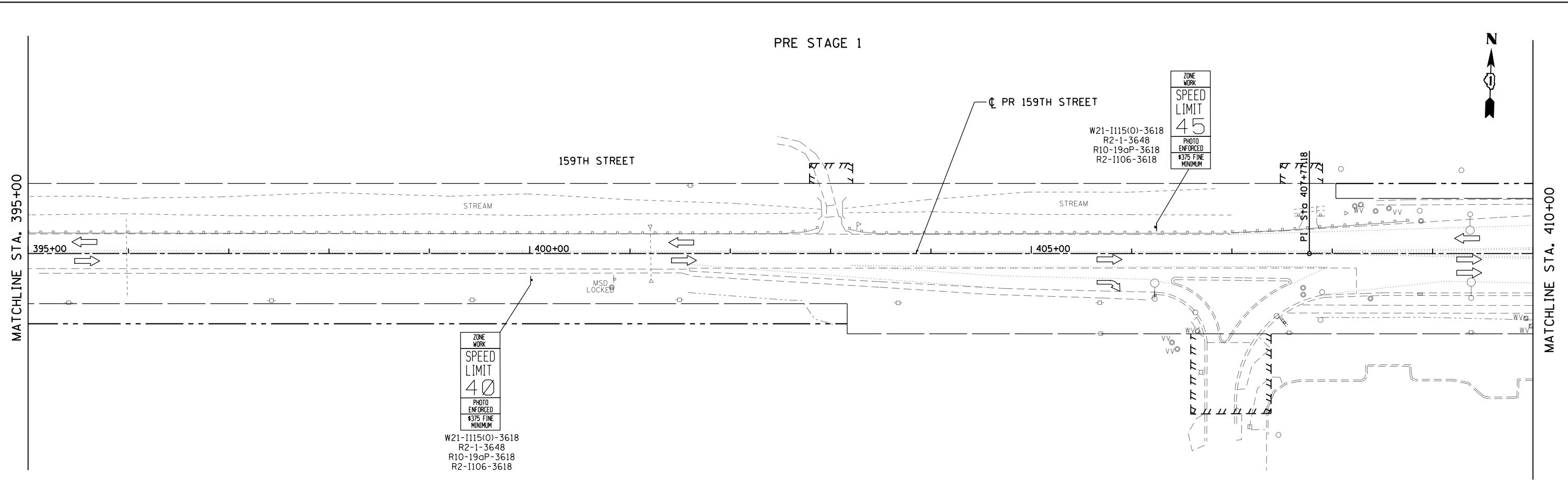
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
159TH STREET PRE-STAGE 1

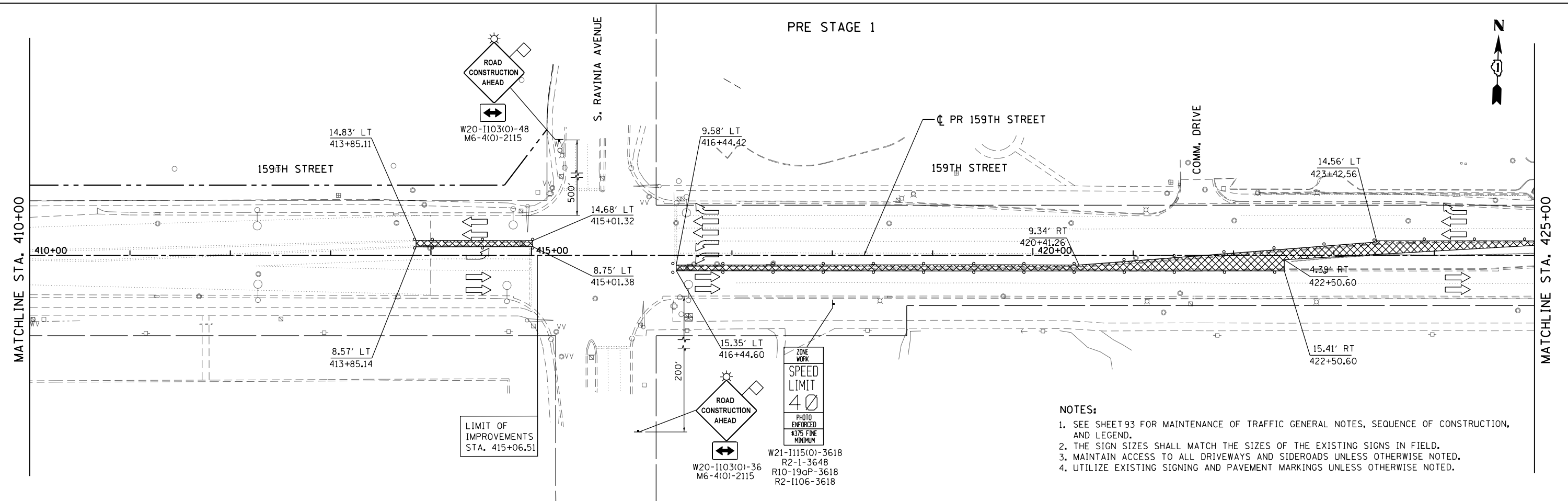
SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 281+00.00 TO STA. 305+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	103
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				

PRE STAGE 1



PRE STAGE 1

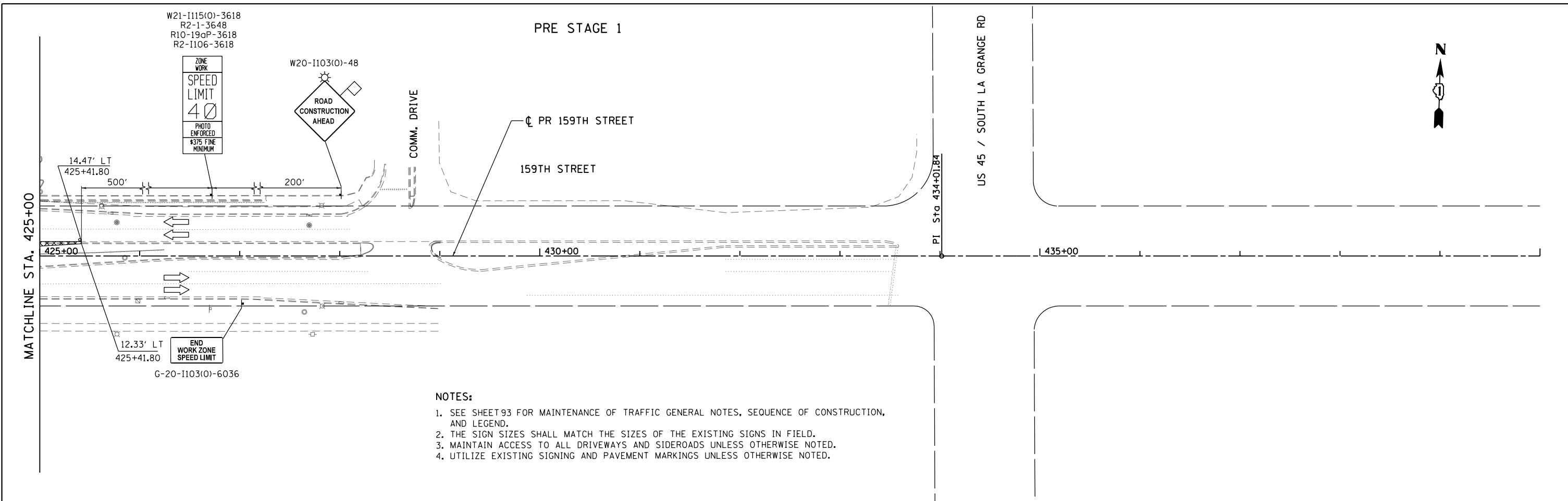


NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. UTILIZE EXISTING SIGNING AND PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

FILE NAME = D:\60L72-sht-staging-PreStage1.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET PRE-STAGE 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			351	2010-081-R	COOK	1045	107
*MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50'		SHEET 5 OF 6 SHEETS		STA. 395+00.00 TO STA. 425+00.00		ILLINOIS FED. AID PROJECT

CONTRACT NO. 60L72



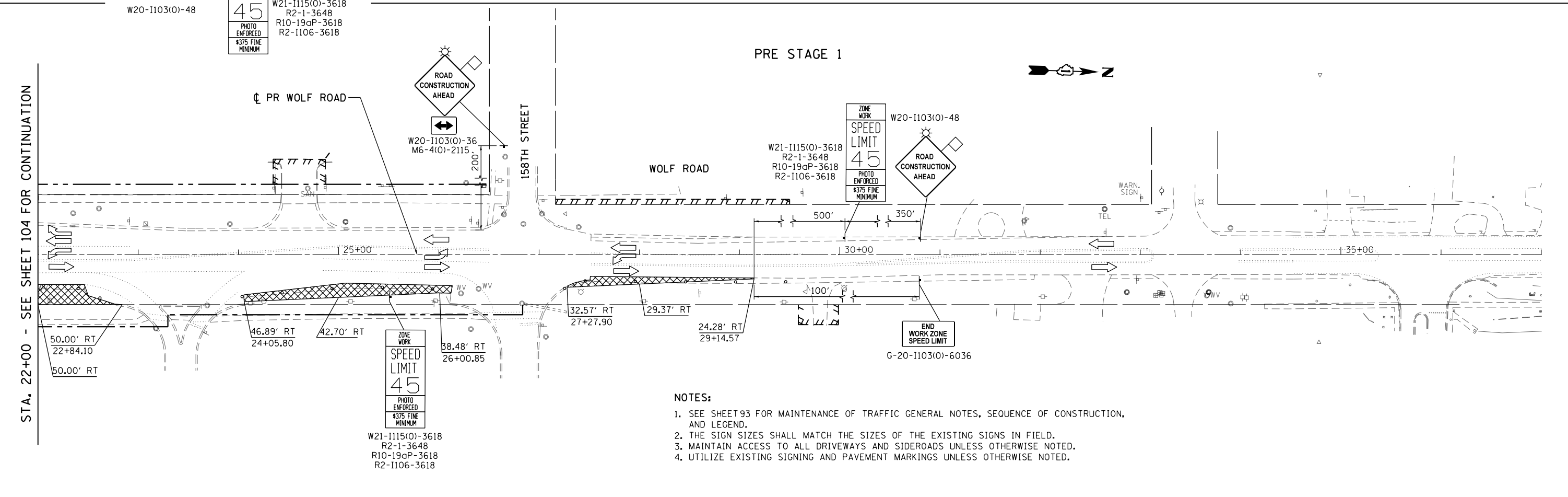
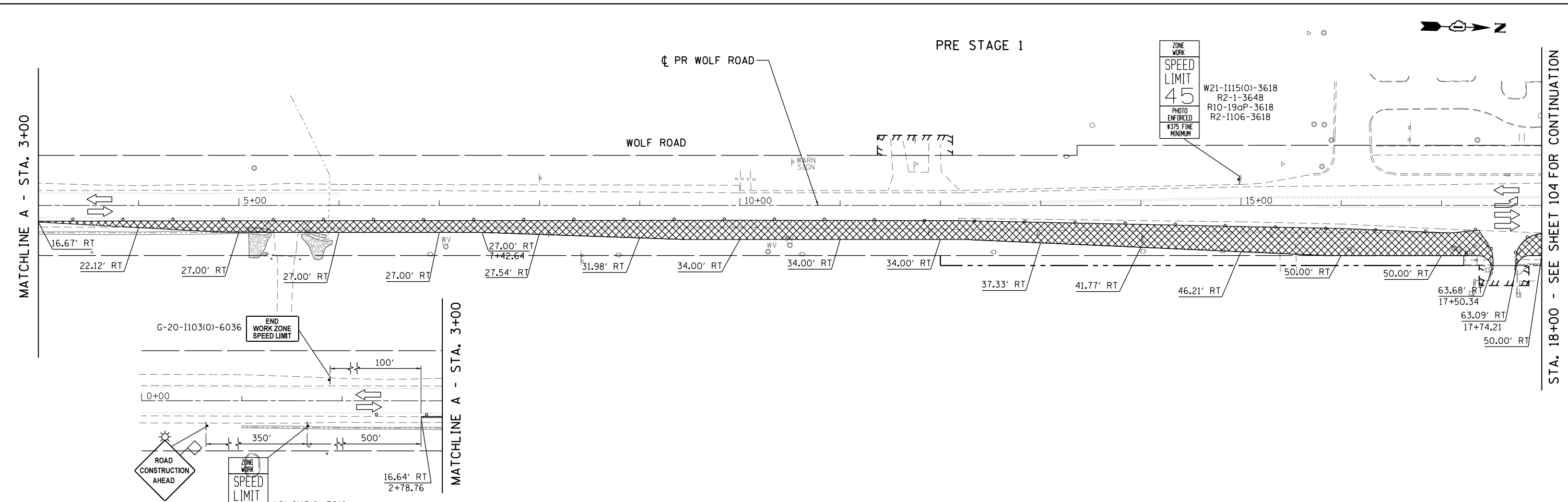
FILE NAME = D:\60L72-sht-staging-PreStage1.dgn	USER NAME = rdenley	DESIGNED - JPW	REVISED -
		DRAWN - JPW	REVISED -
	PLOT SCALE = 1:100	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
159TH STREET PRE-STAGE 1**

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 425+00.00 TO STA. 428+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	108
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L72	



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. UTILIZE EXISTING SIGNING AND PAVEMENT MARKINGS UNLESS OTHERWISE NOTED.

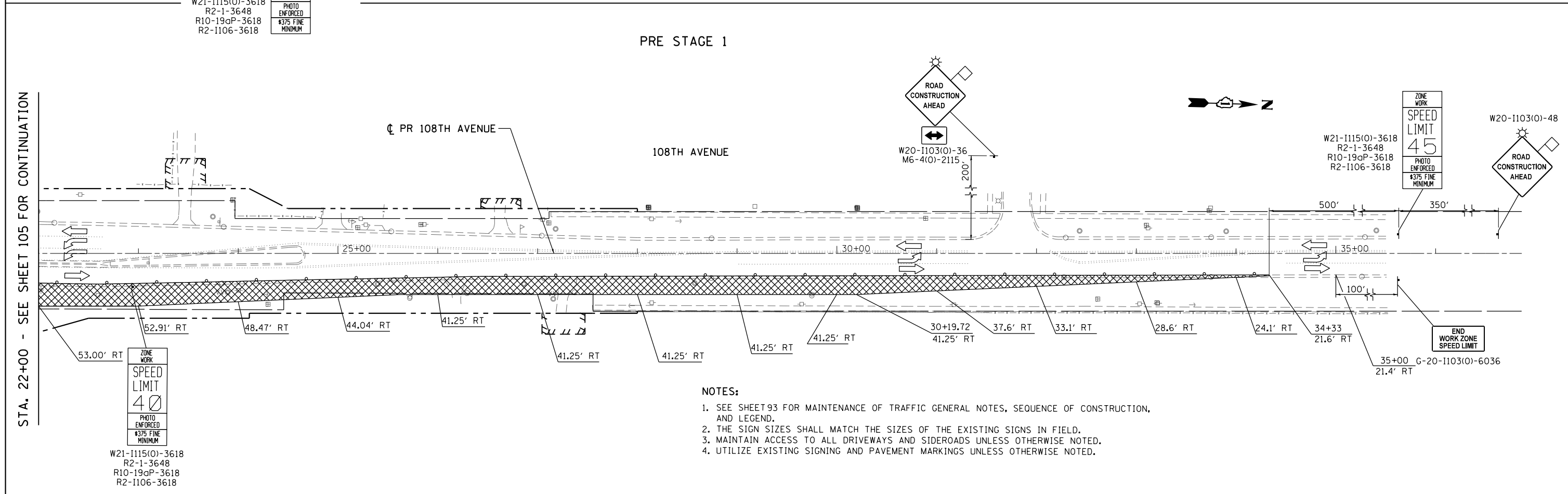
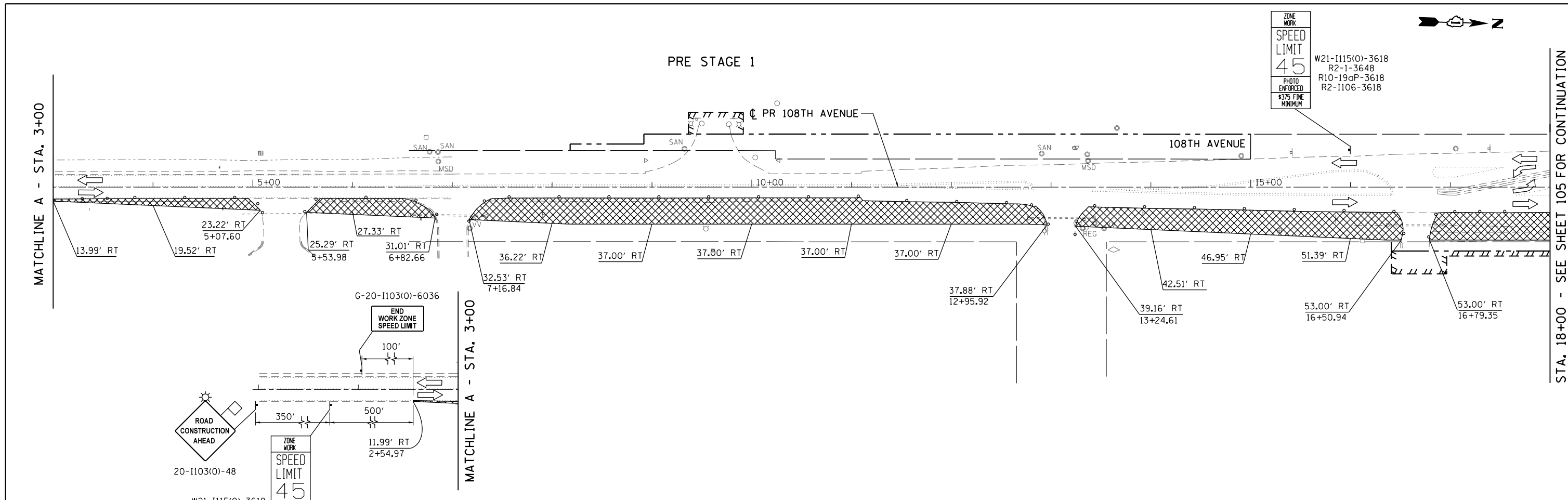
FILE NAME =	USER NAME = rdonley	DESIGNED - JPW	REVISED -
D:\60L72-sht-staging-PreStage1.dgn		DRAWN - JPW	REVISED -
	PLOT SCALE = 1:1100	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
WOLF ROAD PRE-STAGE 1**

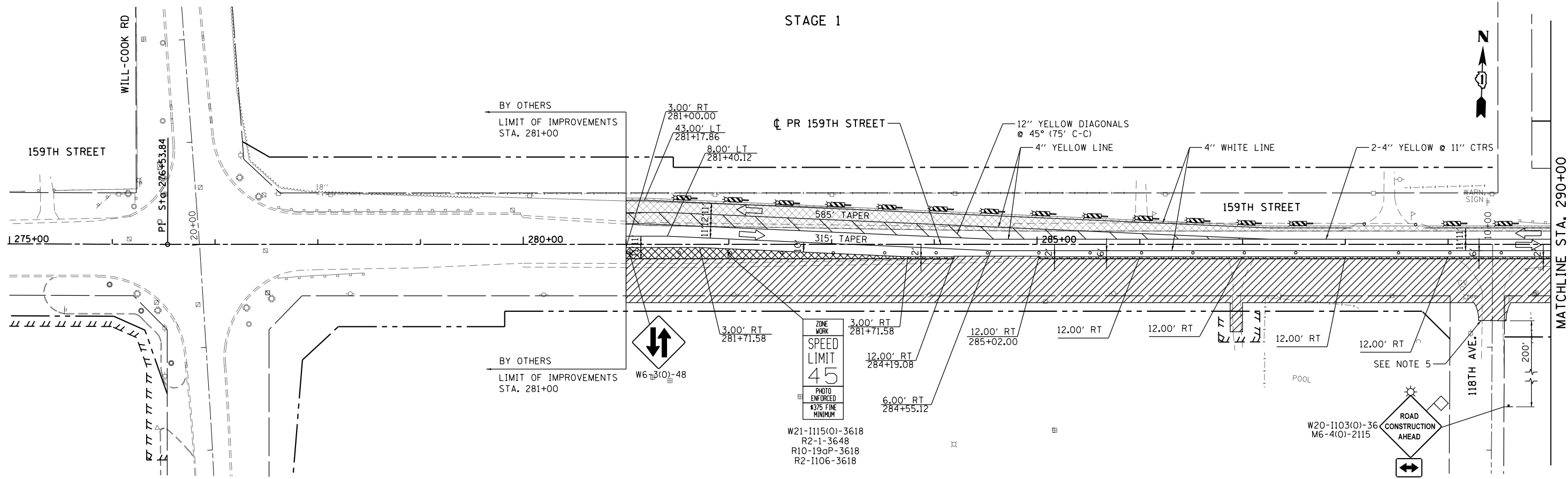
SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 2+78.76 TO STA. 29+14.15

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	109
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				

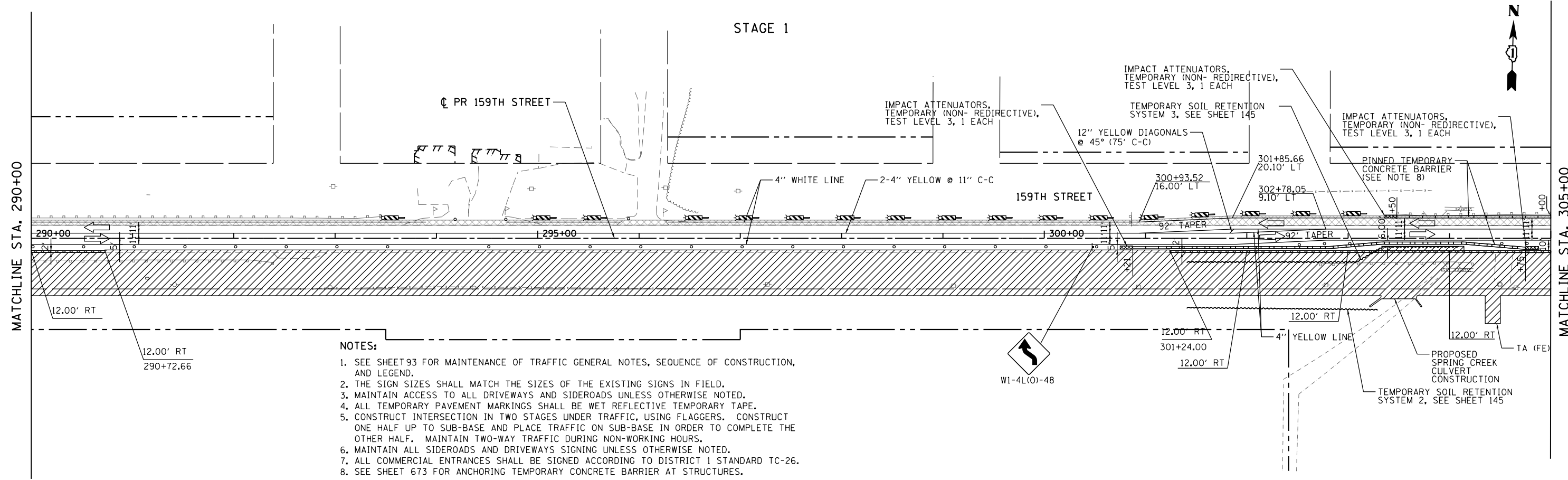


FILE NAME = D:\60L72-sht-staging-PreStage1.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE PRE-STAGE 1	F.A.P. R.T.E. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 110		
MODELNAME	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA. 2+54.97 TO STA. 34+33.00	CONTRACT NO. 60L72			
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT						

STAGE 1



STAGE 1



NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
5. CONSTRUCT INTERSECTION IN TWO STAGES UNDER TRAFFIC, USING FLAGGERS. CONSTRUCT ONE HALF UP TO SUB-BASE AND PLACE TRAFFIC ON SUB-BASE IN ORDER TO COMPLETE THE OTHER HALF. MAINTAIN TWO-WAY TRAFFIC DURING NON-WORKING HOURS.
6. MAINTAIN ALL SIDEROADS AND DRIVEWAYS SIGNING UNLESS OTHERWISE NOTED.
7. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
8. SEE SHEET 673 FOR ANCHORING TEMPORARY CONCRETE BARRIER AT STRUCTURES.

FILE NAME = D:\60L72-sht-staging-Stage1.dgn
 #MODELNAME#

USER NAME = jwise
 PLOT SCALE = 1:100
 PLOT DATE = 10/24/2014

DESIGNED - JPW
 DRAWN - JPW
 CHECKED -
 DATE - 10/28/14

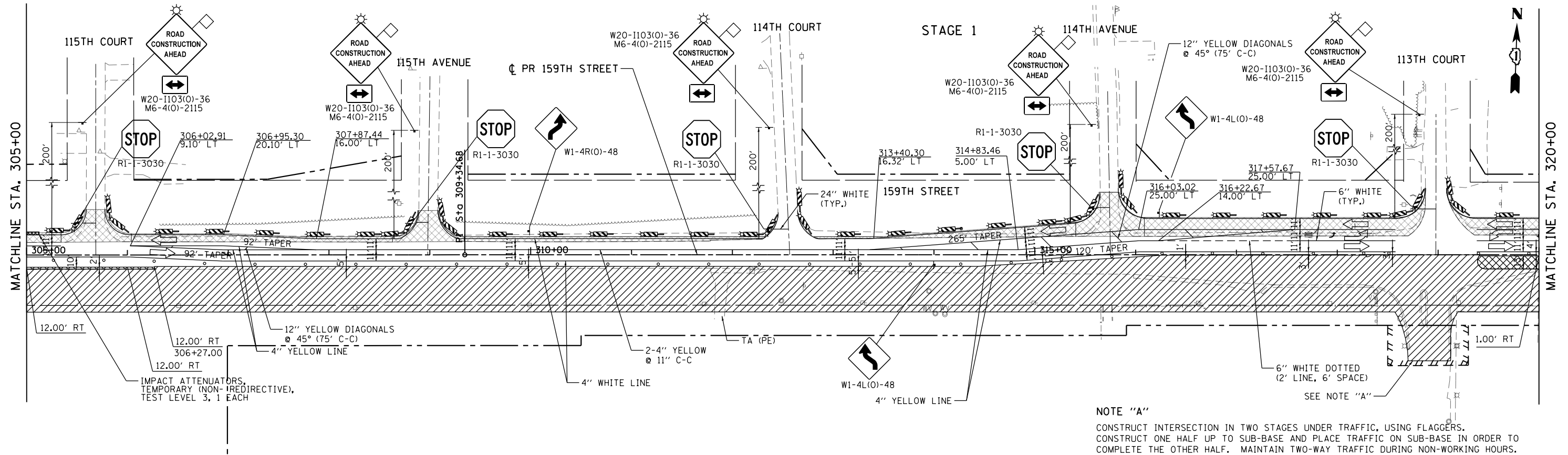
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

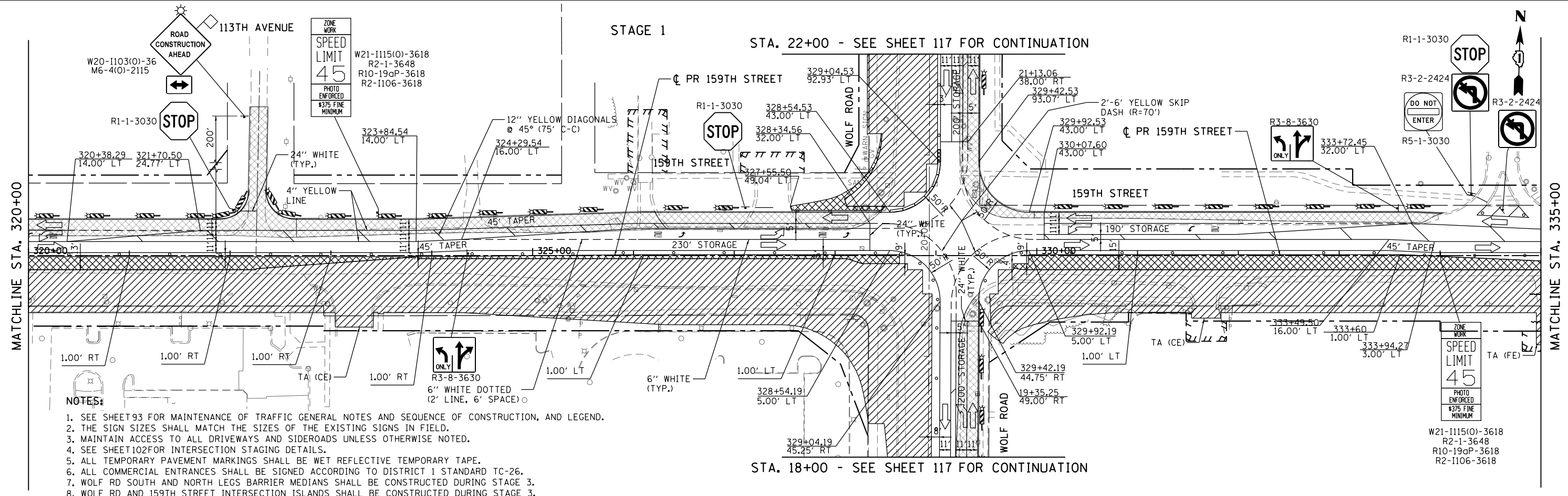
SUGGESTED MAINTENANCE OF TRAFFIC
 159TH STREET STAGE 1

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 281+00.00 TO STA. 305+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	111
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	

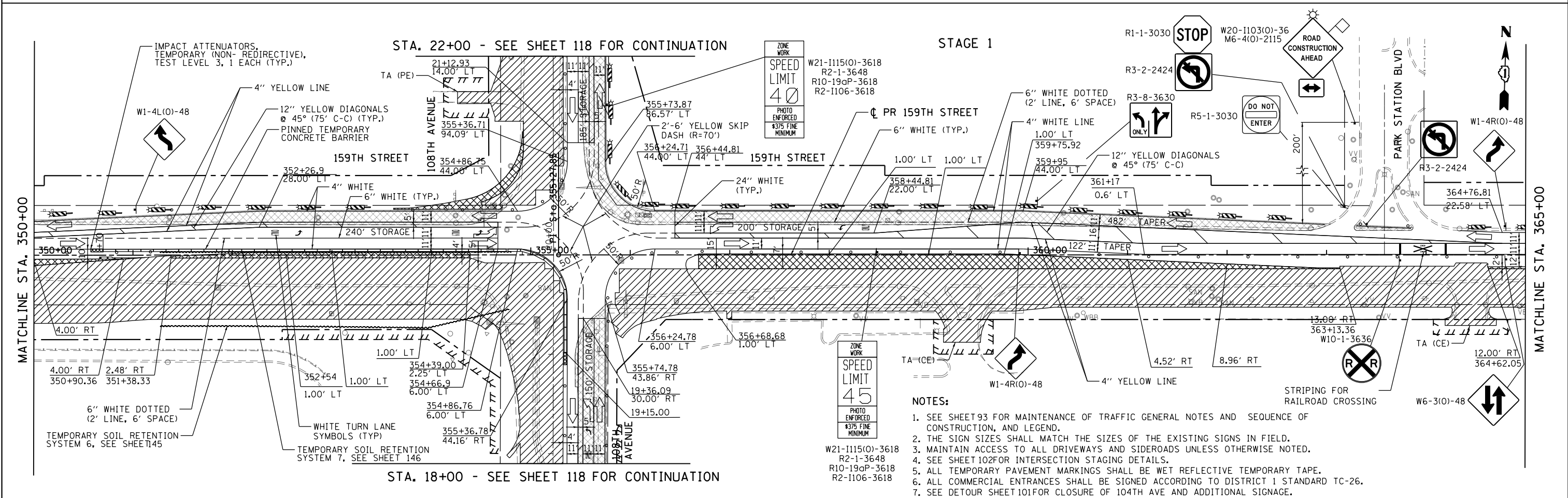
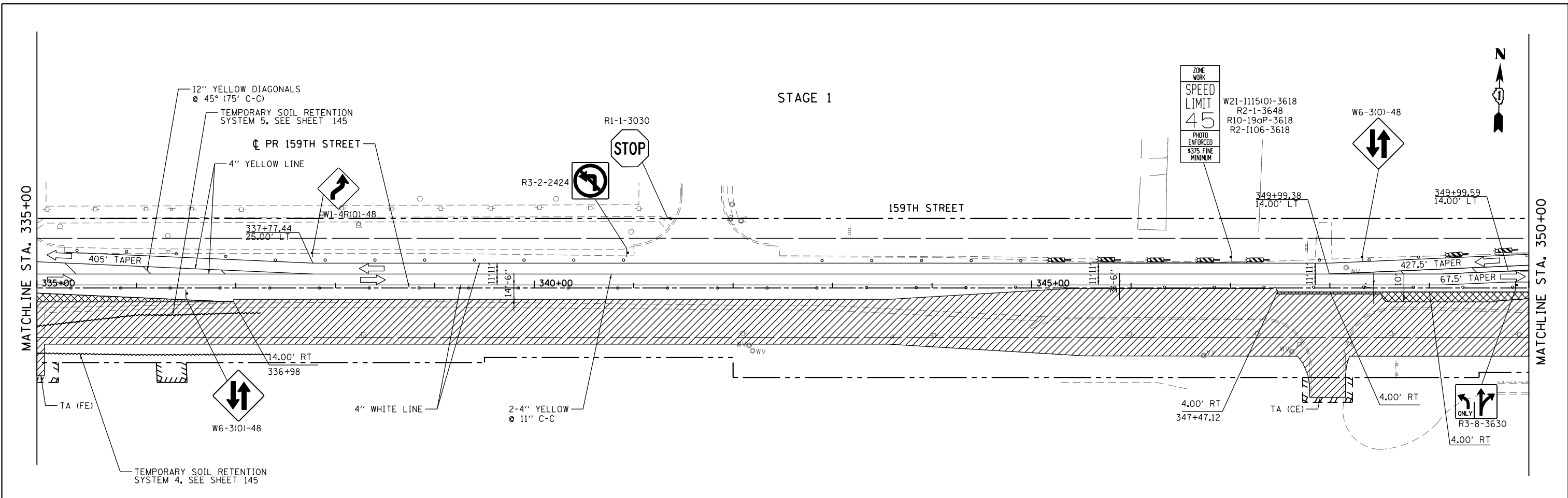


NOTE "A"
 CONSTRUCT INTERSECTION IN TWO STAGES UNDER TRAFFIC, USING FLAGGERS.
 CONSTRUCT ONE HALF UP TO SUB-BASE AND PLACE TRAFFIC ON SUB-BASE IN ORDER TO
 COMPLETE THE OTHER HALF. MAINTAIN TWO-WAY TRAFFIC DURING NON-WORKING HOURS.



- NOTES:**
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 - ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 - ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 - WOLF RD SOUTH AND NORTH LEGS BARRIER MEDIANS SHALL BE CONSTRUCTED DURING STAGE 3.
 - WOLF RD AND 159TH STREET INTERSECTION ISLANDS SHALL BE CONSTRUCTED DURING STAGE 3.

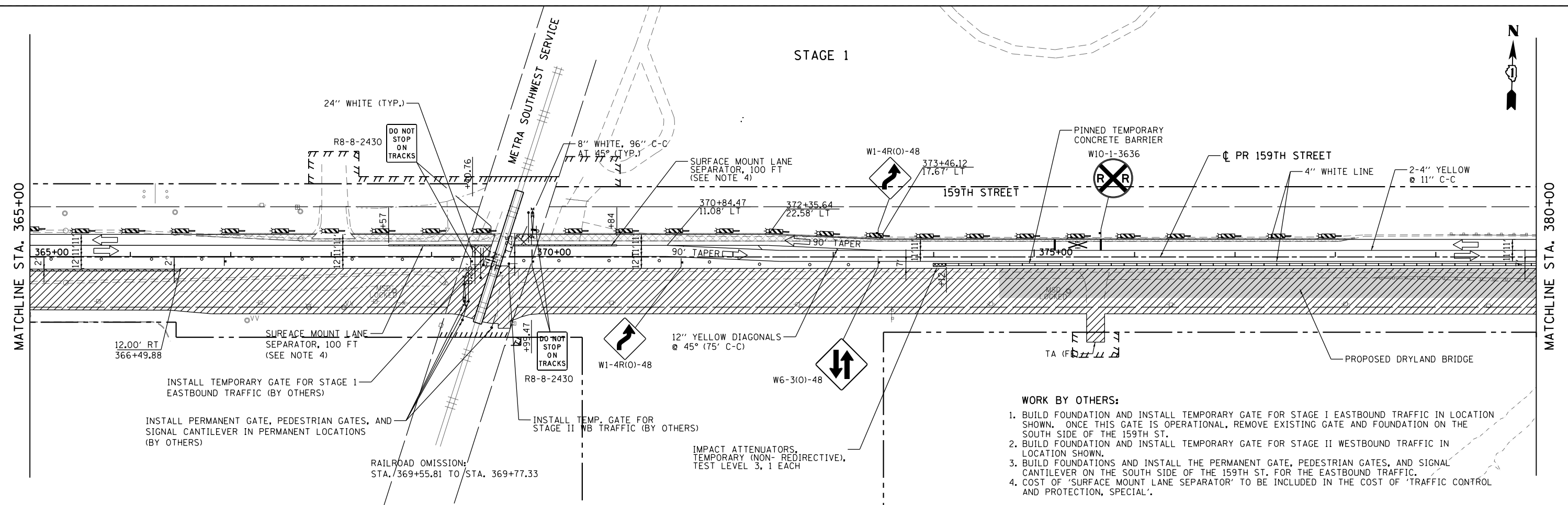
FILE NAME = D:\60L72-shr-staging-Stage1.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 1			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 112
MODELNAME#	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -		SCALE: 1"=50'	SHEET 2	OF 6 SHEETS	STA. 305+00.00	TO STA. 335+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 7. SEE DETOUR SHEET 101 FOR CLOSURE OF 104TH AVE AND ADDITIONAL SIGNAGE.

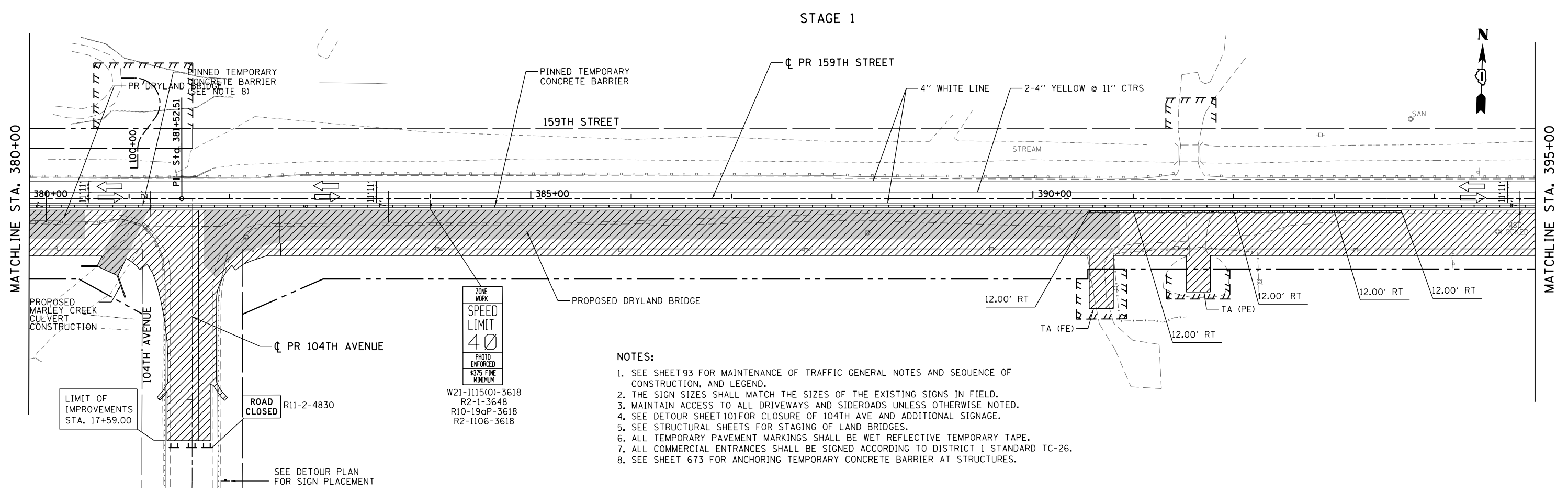
FILE NAME = D:\60L72-sht-staging-Stage1.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 1	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 113	
PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -	SCALE: 1"=50'			SHEET 3 OF 6 SHEETS	STA. 335+00.00 TO STA. 365+00.00	ILLINOIS FED. AID PROJECT		CONTRACT NO. 60L72	
PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -									

STAGE 1



- WORK BY OTHERS:**
1. BUILD FOUNDATION AND INSTALL TEMPORARY GATE FOR STAGE I EASTBOUND TRAFFIC IN LOCATION SHOWN. ONCE THIS GATE IS OPERATIONAL, REMOVE EXISTING GATE AND FOUNDATION ON THE SOUTH SIDE OF THE 159TH ST.
 2. BUILD FOUNDATION AND INSTALL TEMPORARY GATE FOR STAGE II WESTBOUND TRAFFIC IN LOCATION SHOWN.
 3. BUILD FOUNDATIONS AND INSTALL THE PERMANENT GATE, PEDESTRIAN GATES, AND SIGNAL CANTILEVER ON THE SOUTH SIDE OF THE 159TH ST. FOR THE EASTBOUND TRAFFIC.
 4. COST OF 'SURFACE MOUNT LANE SEPARATOR' TO BE INCLUDED IN THE COST OF 'TRAFFIC CONTROL AND PROTECTION, SPECIAL'.

STAGE 1



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE DETOUR SHEET 101 FOR CLOSURE OF 104TH AVE AND ADDITIONAL SIGNAGE.
 5. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.
 6. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 7. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 8. SEE SHEET 673 FOR ANCHORING TEMPORARY CONCRETE BARRIER AT STRUCTURES.

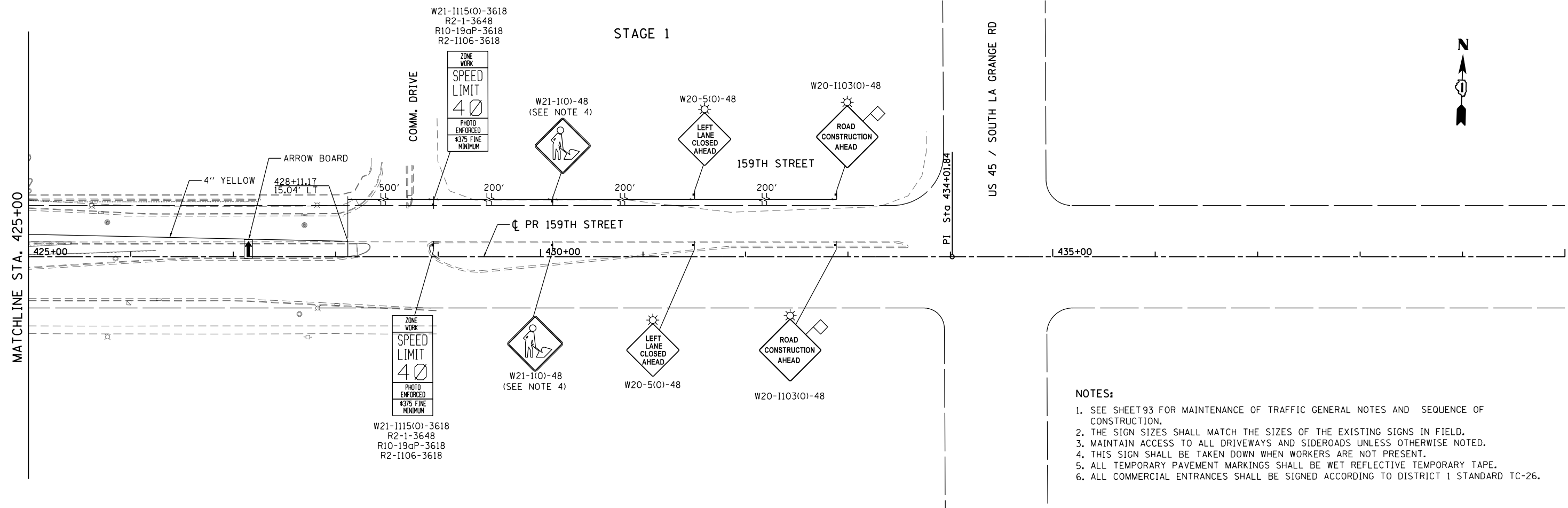
FILE NAME = D160L72-sh1-staging-Stage1.dgn	USER NAME = jwise/gos	DESIGNED - JPW	REVISED -
	PLOT SCALE = 1:1100	DRAWN - JPW	REVISED -
	PLOT DATE = 10/24/2014	CHECKED -	REVISED -
		DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
159TH STREET STAGE 1**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 365+00.00 TO STA. 395+00.00

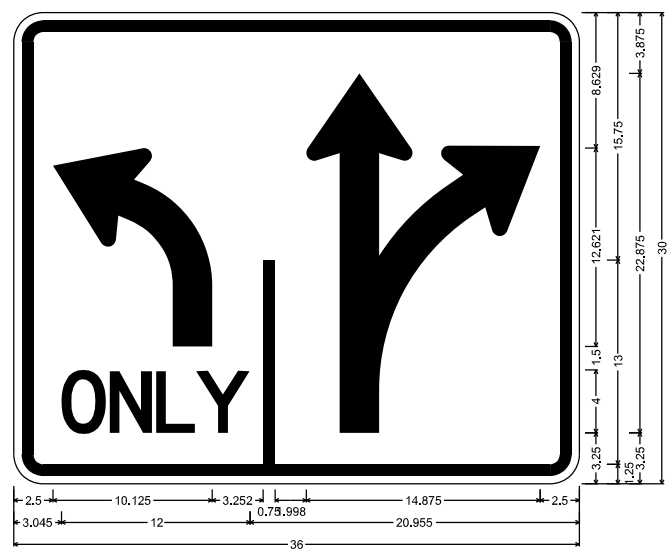
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	114
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.



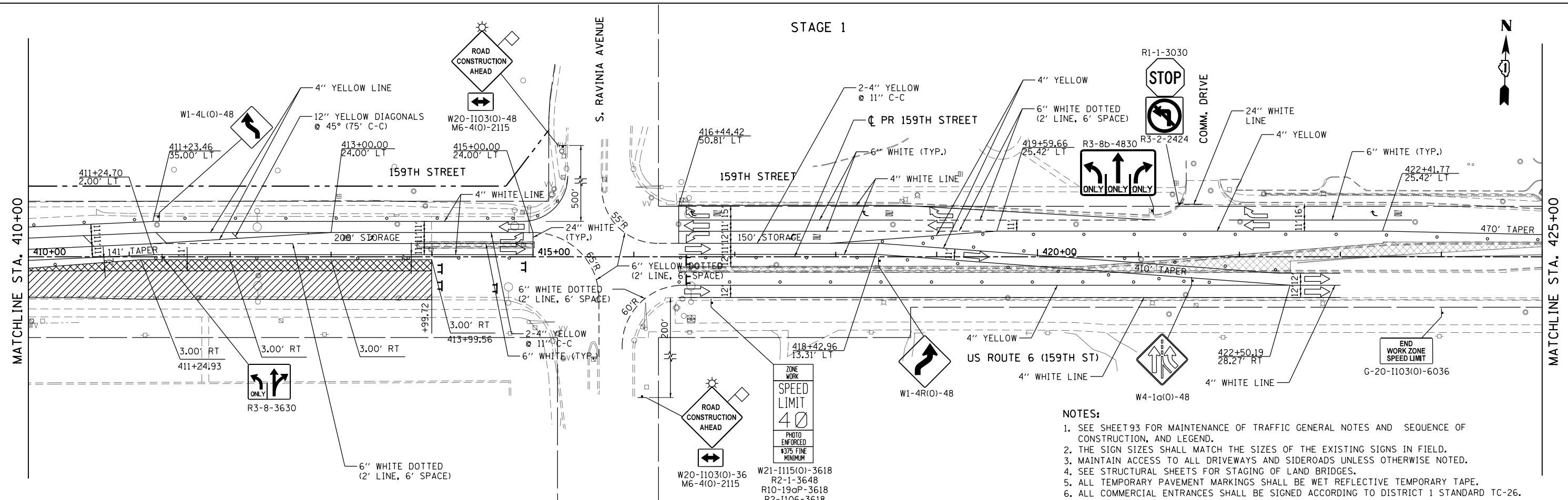
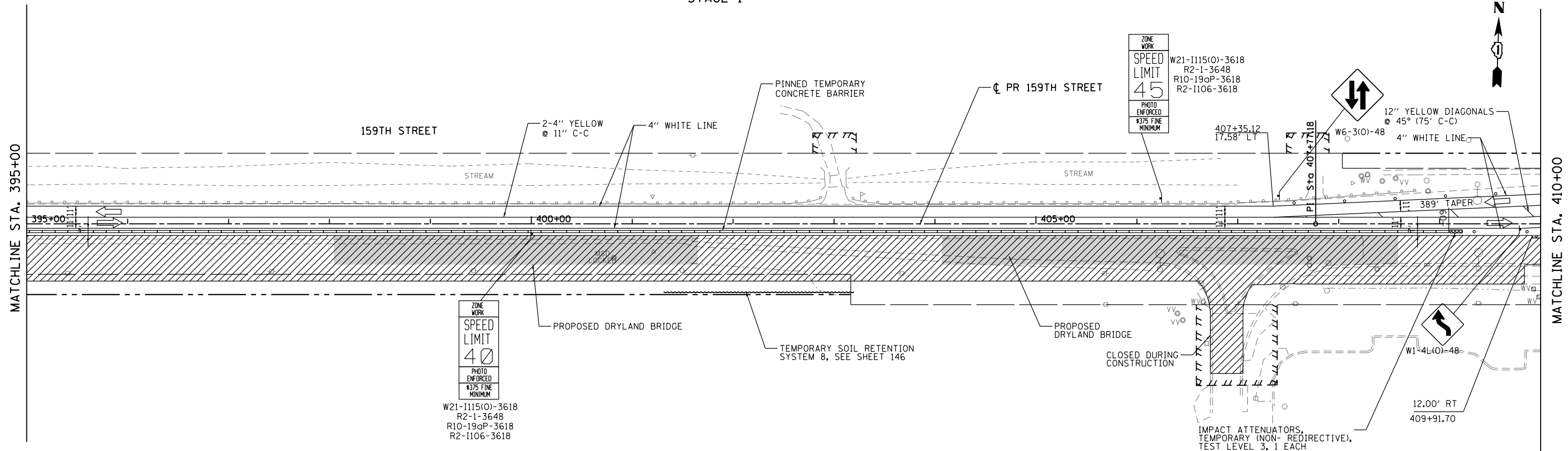
SPECIAL_24x36:
 1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
 [CAUTION] D 2K; [NEW LANES] D 2K 70% spacing;
 [OPEN] D 2K 70% spacing;
 [STOP HERE] D 2K 70% spacing;
 Standard Arrow Custom 14.6" X 6.9" 210";



R3-8_36x30; 1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
 R3-8 left turn arrow l=5.75, s=2.5; [ONLY] D 2K 25% spacing;
 R3-8 left double headed arrow l=14.5, s=2.5;

FILE NAME = D:\60L72-sht-staging-Stage1.dgn	USER NAME = rdenley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 1	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 116
	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 6 OF 6 SHEETS	STA. 425+00.00 TO STA. 426+03.98	CONTRACT NO. 60L72	
#MODELNAME#	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -							

STAGE 1



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.
 5. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage1.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

DESIGNED - JPW
 DRAWN - JPW
 CHECKED - JPW
 DATE - 10/28/14

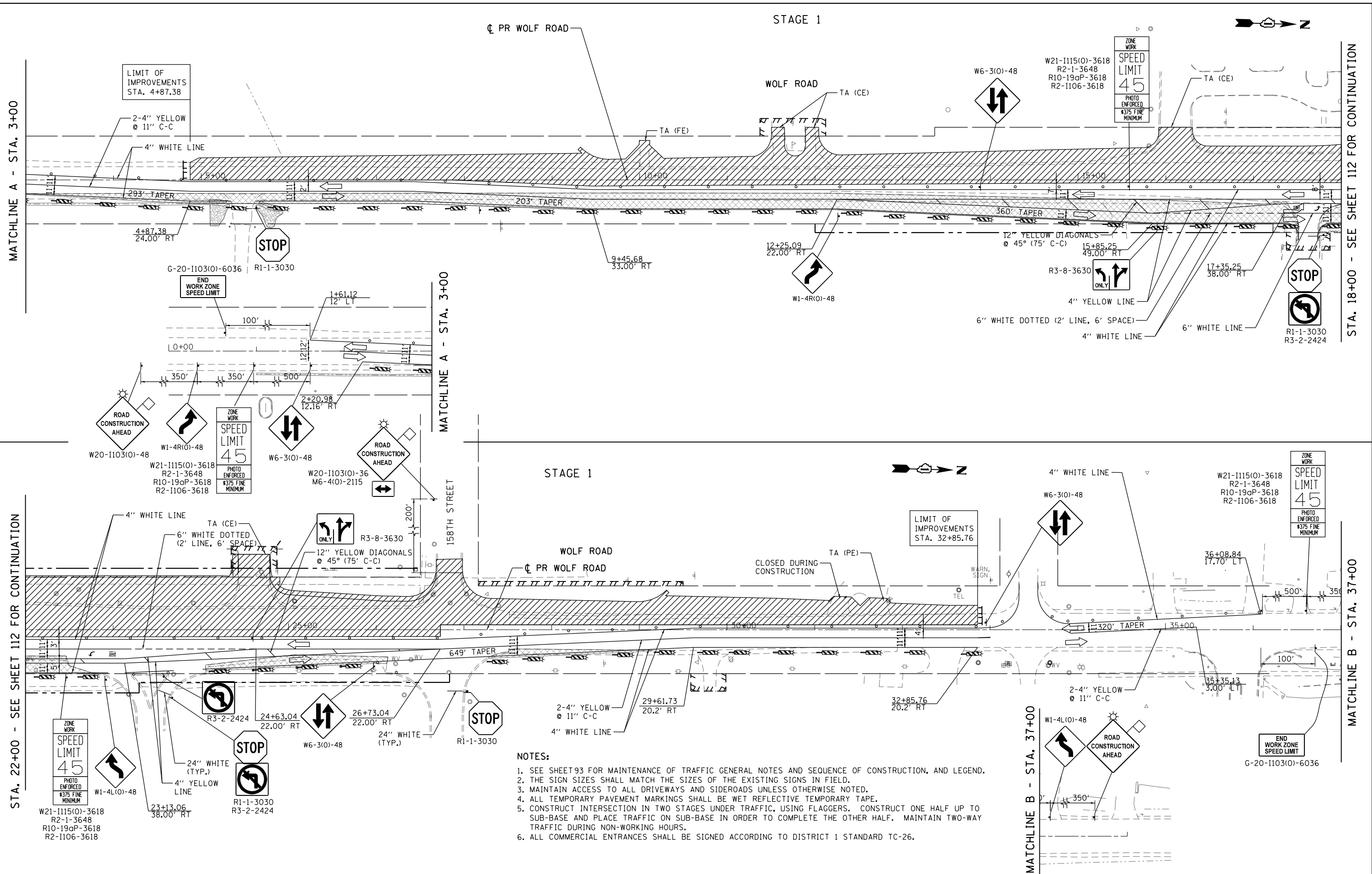
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
 159TH STREET STAGE 1**

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 395+00.00 TO STA. 425+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	115
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
5. CONSTRUCT INTERSECTION IN TWO STAGES UNDER TRAFFIC, USING FLAGGERS. CONSTRUCT ONE HALF UP TO SUB-BASE AND PLACE TRAFFIC ON SUB-BASE IN ORDER TO COMPLETE THE OTHER HALF. MAINTAIN TWO-WAY TRAFFIC DURING NON-WORKING HOURS.
6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage1.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

DESIGNED - JPW
 DRAWN - JPW
 CHECKED - JPW
 DATE - 10/28/14

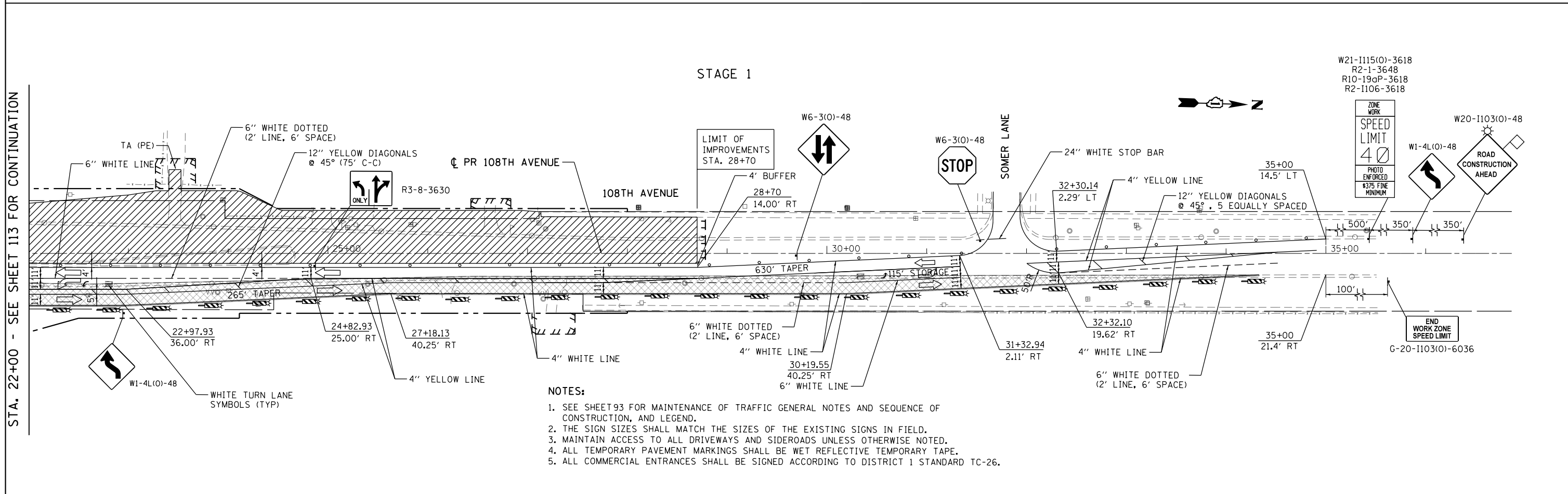
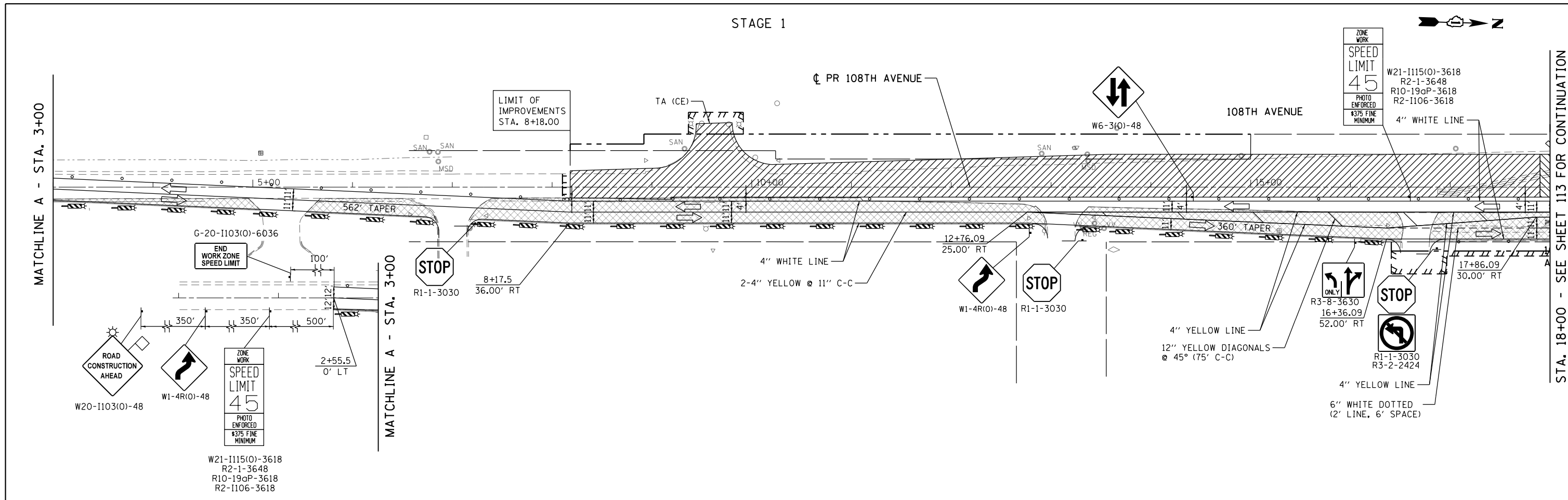
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
 WOLF ROAD STAGE 1**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 1+61.12 TO STA. 32+85.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	117
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES AND SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D160L72-sht-staging-Stage1.dgn	USER NAME = rdonley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 1			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 118
MODELNAME#	PLOT SCALE = 1:1100	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. 2+55.50	TO STA. 35+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							

STAGE 1A

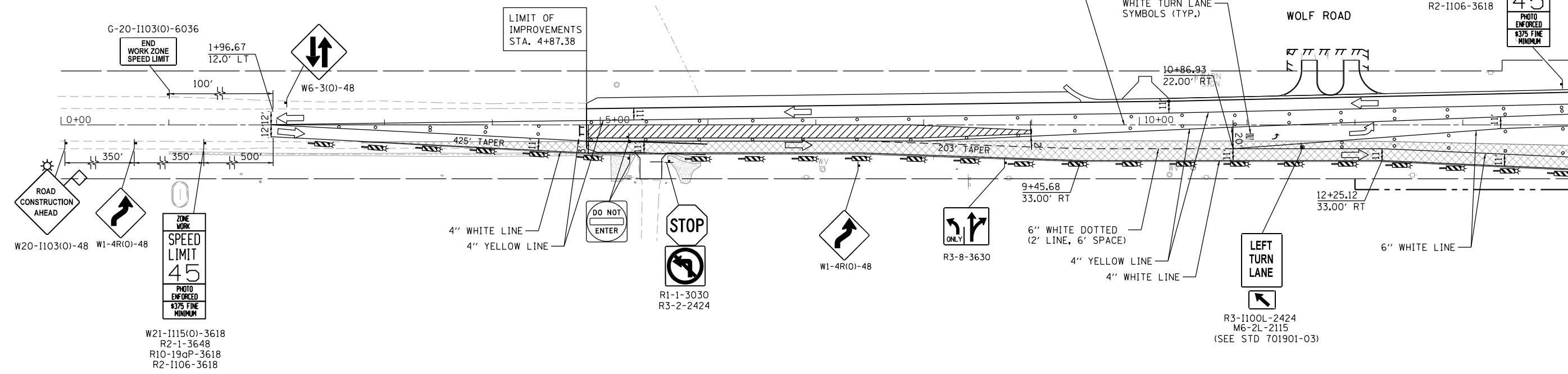
PR WOLF ROAD



W21-1115(O)-3618
R2-1-3648
R10-19aP-3618
R2-1106-3618

ZONE WORK
SPEED LIMIT
45
PHOTO ENFORCED
\$375 FINE
MINIMUM

MATCHLINE STA. 14+00



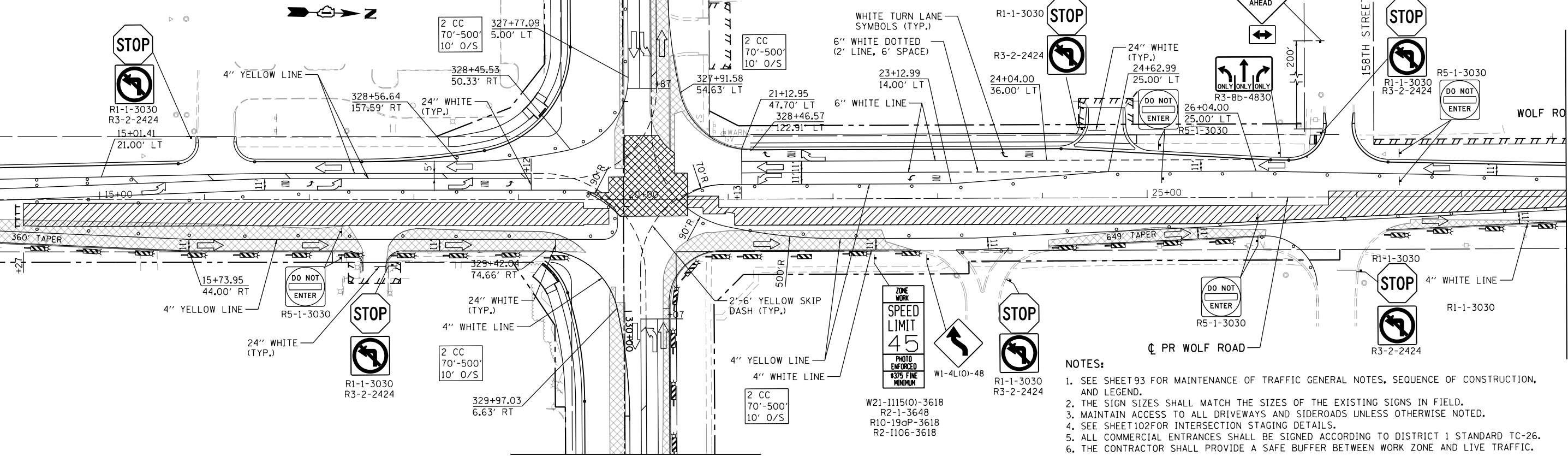
SEE SHEET 112 FOR CONTINUATION

STAGE 1A

W20-1103(O)-36
M6-4(O)-2115

MATCHLINE STA. 14+00

MATCHLINE - STA. 29+00



SEE SHEET 112 FOR CONTINUATION

NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
6. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME =
D160L72-sht-staging-Stage1A.dgn

USER NAME = rdonley
PLOT SCALE = 1:1100
PLOT DATE = 10/22/2014

DESIGNED - JPW
DRAWN - JPW
CHECKED -
DATE - 10/28/14

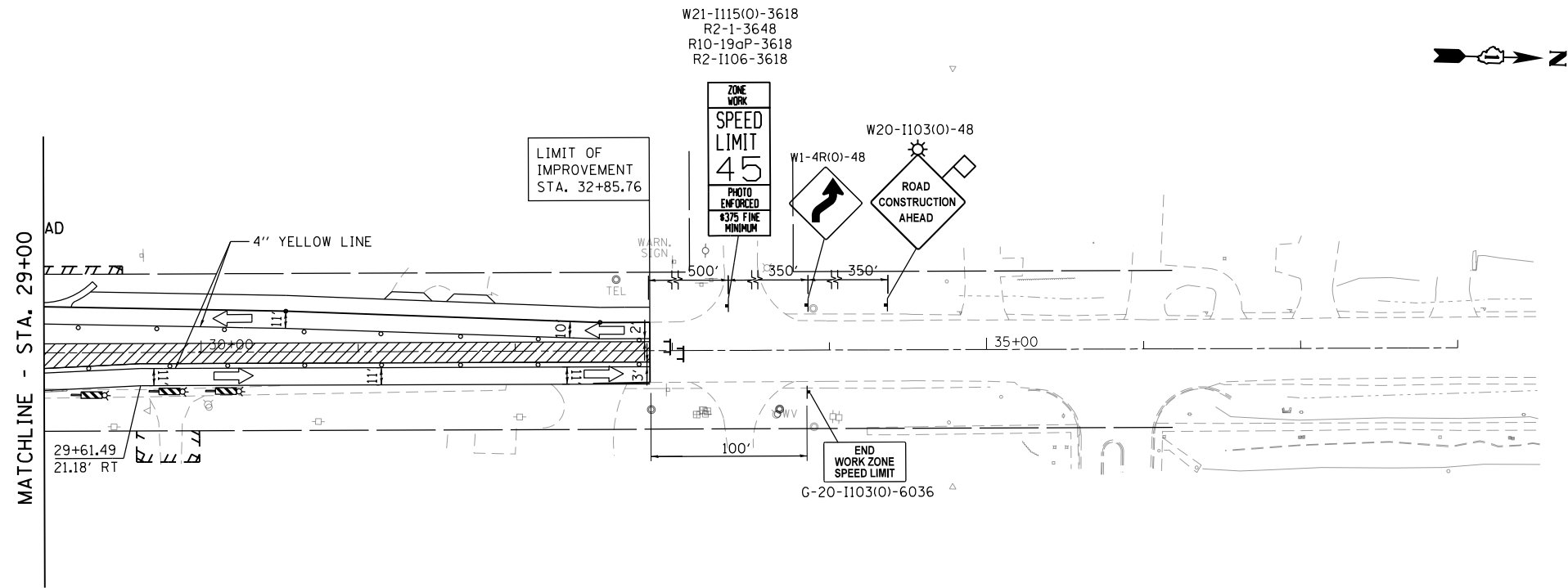
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
WOLF ROAD STAGE 1A

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 1+96.67 TO STA. 29+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	119
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				

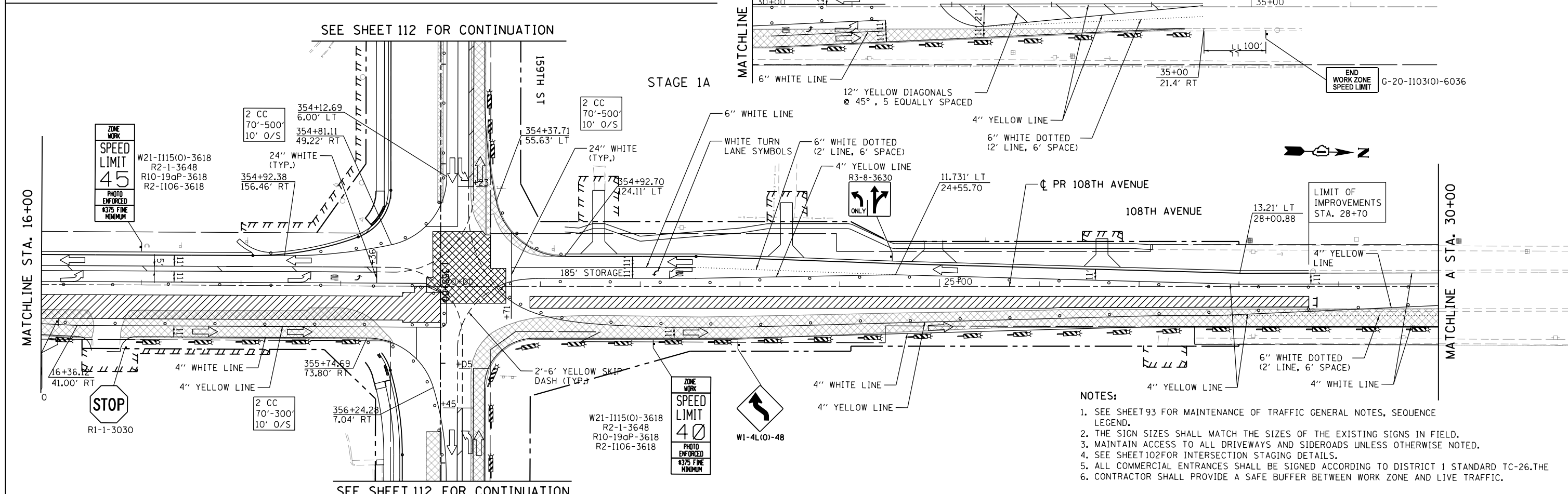
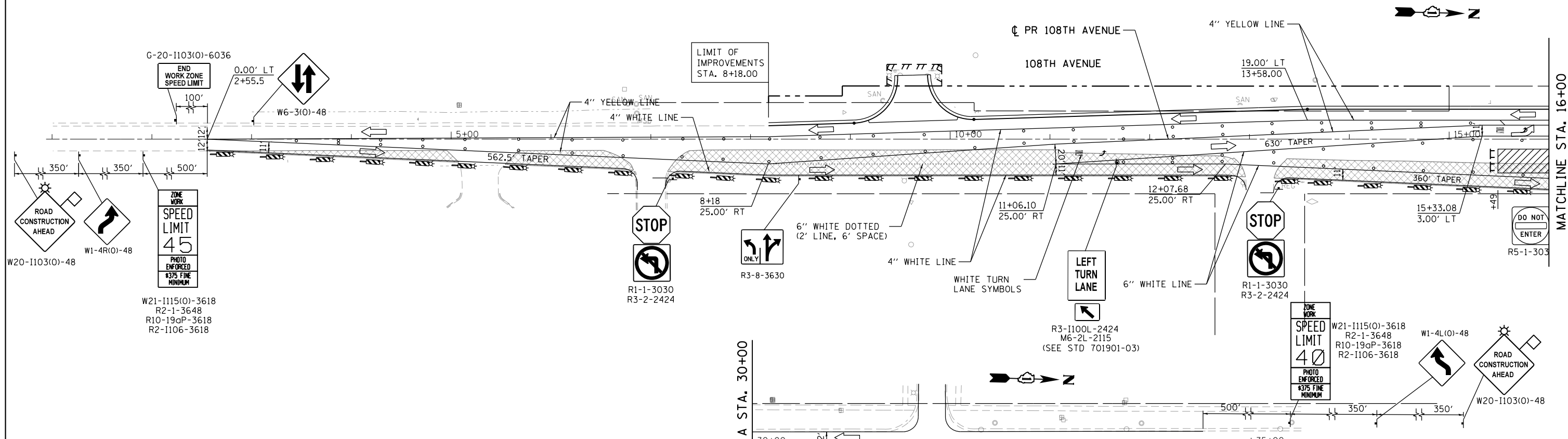


NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, TEMPORARY PAVEMENT MARKINGS AND TEMPORARY TRAFFIC SIGN LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
5. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage1A.dgn	USER NAME = rdenley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 1A	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 120
	PLOT SCALE = 1:100	CHECKED -	REVISED -			CONTRACT NO. 60L72				
MODELNAME	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	SCALE: 1"=50'		SHEET 2 OF 2 SHEETS		STA. 29+00.00 TO STA. 32+85.76		ILLINOIS FED. AID PROJECT

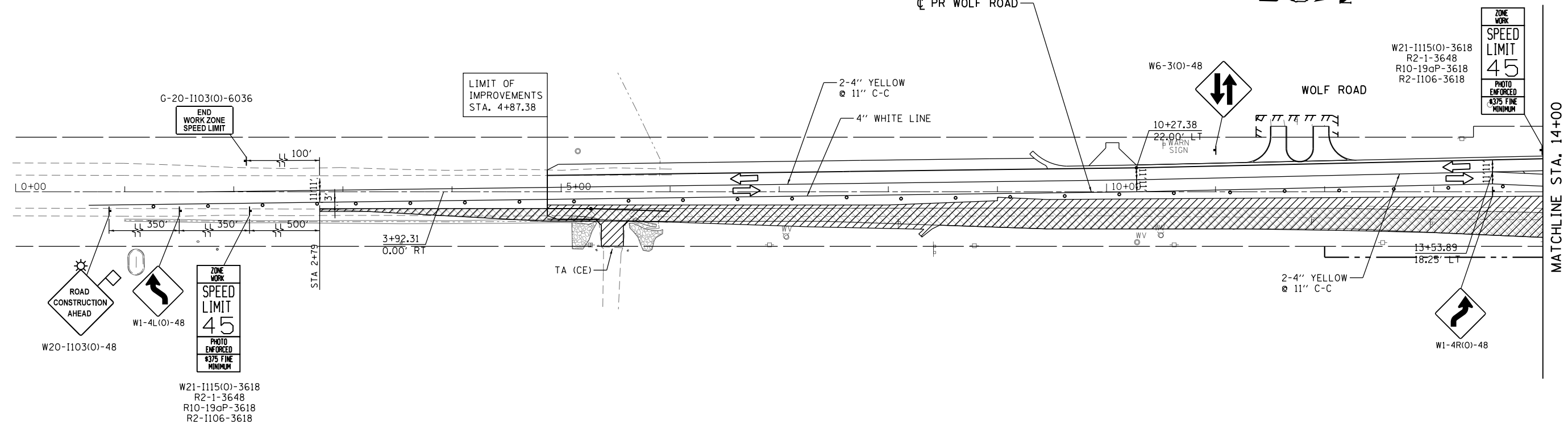
STAGE 1A



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26. THE
 6. CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

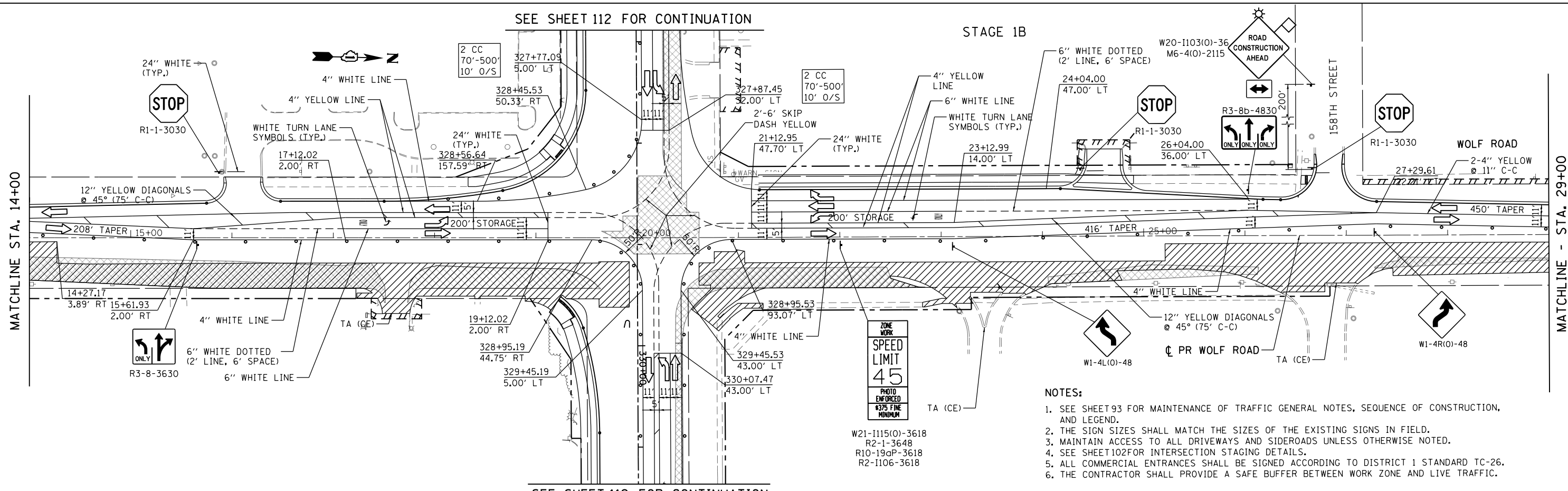
FILE NAME = D160L72-sht-staging-Stage1A.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 1A			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 121
#MODELNAME#	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -		SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. 2+55.50	TO STA. 35+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							

STAGE 1B



SEE SHEET 112 FOR CONTINUATION

STAGE 1B



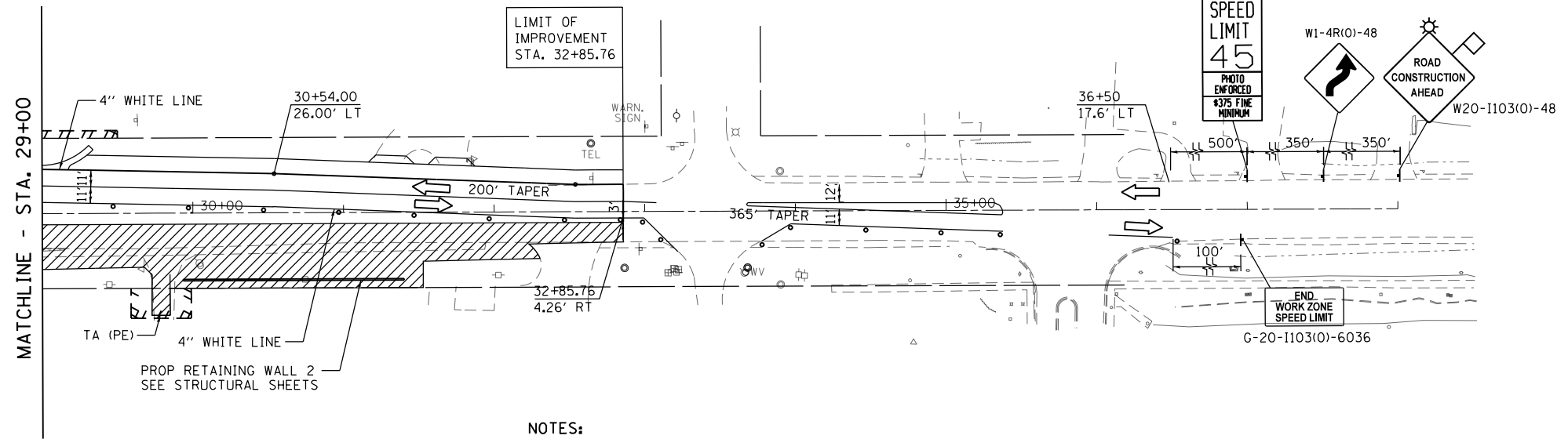
SEE SHEET 112 FOR CONTINUATION

- NOTES:
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 6. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage1B.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 1B			F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 122
	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -		SCALE: 1"=50'	SHEET 1	OF 2 SHEETS	STA. 2+79.00	TO STA. 29+00.00	ILLINOIS FED. AID PROJECT		
#MODELNAME#	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -					CONTRACT NO. 60L72				

STAGE 1B

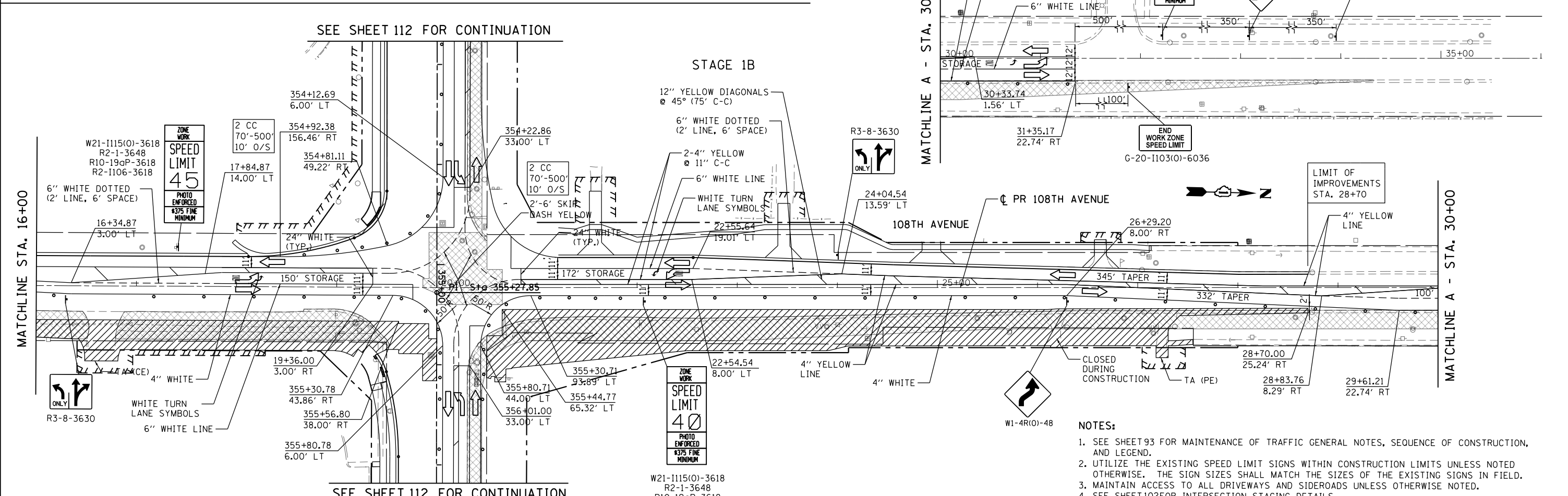
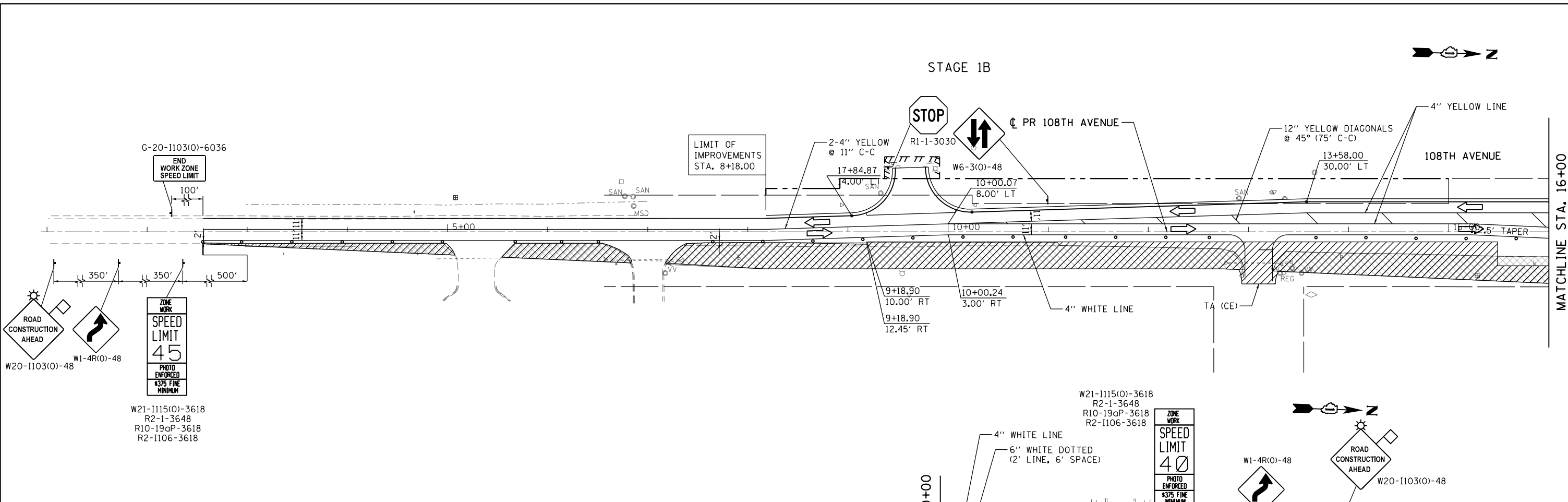
W21-I115(O)-3618
R2-1-3648
R10-19aP-3618
R2-I106-3618



NOTES:

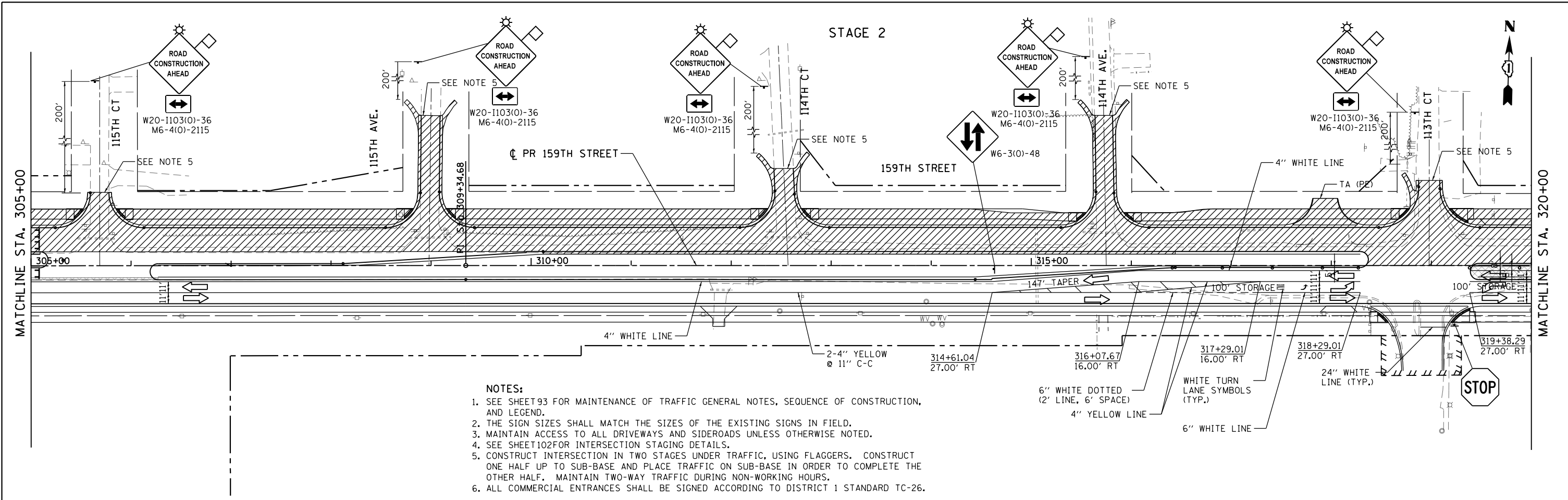
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
5. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage1B.dgn	USER NAME = rdenley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 1B	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED - JPW	REVISED -			351	2010-081-R	COOK	1045	123
MODELNAME	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 29+00.00 TO STA. 36+50.00		ILLINOIS FED. AID PROJECT CONTRACT NO. 60L72				

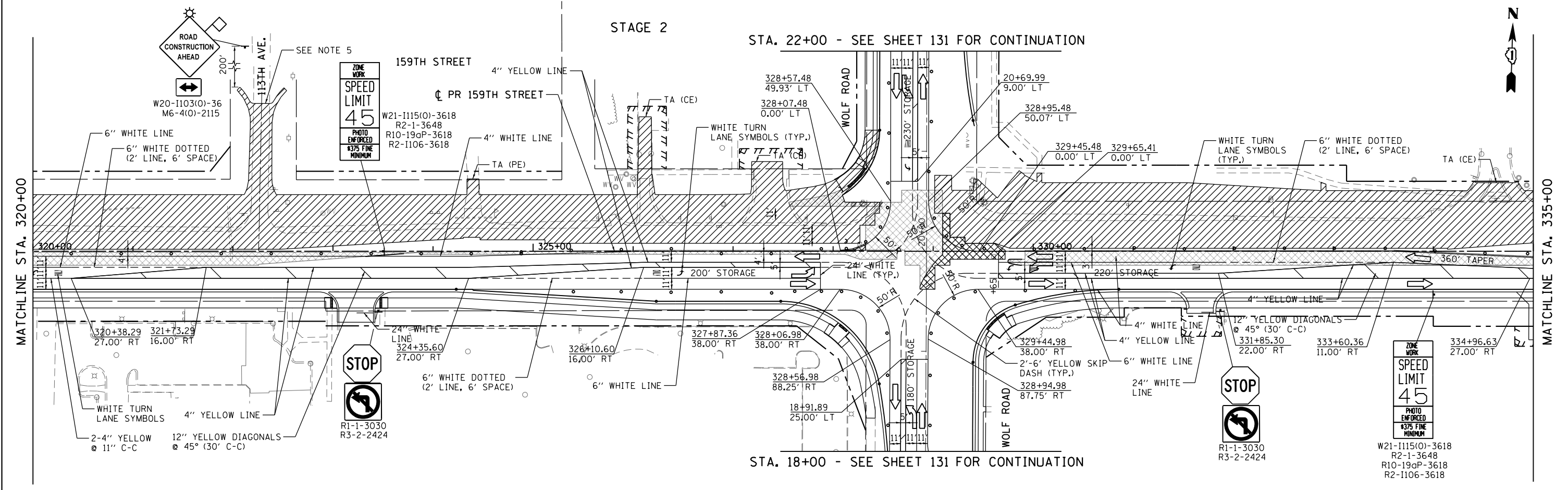


- NOTES:**
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - UTILIZE THE EXISTING SPEED LIMIT SIGNS WITHIN CONSTRUCTION LIMITS UNLESS NOTED OTHERWISE. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.

FILE NAME = D:\60L72-sht-staging-Stage1B.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 1B		F.A.P. RT. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 124
#MODELNAME#	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -				SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. 2+55.80	TO STA. 31+35.17
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT						

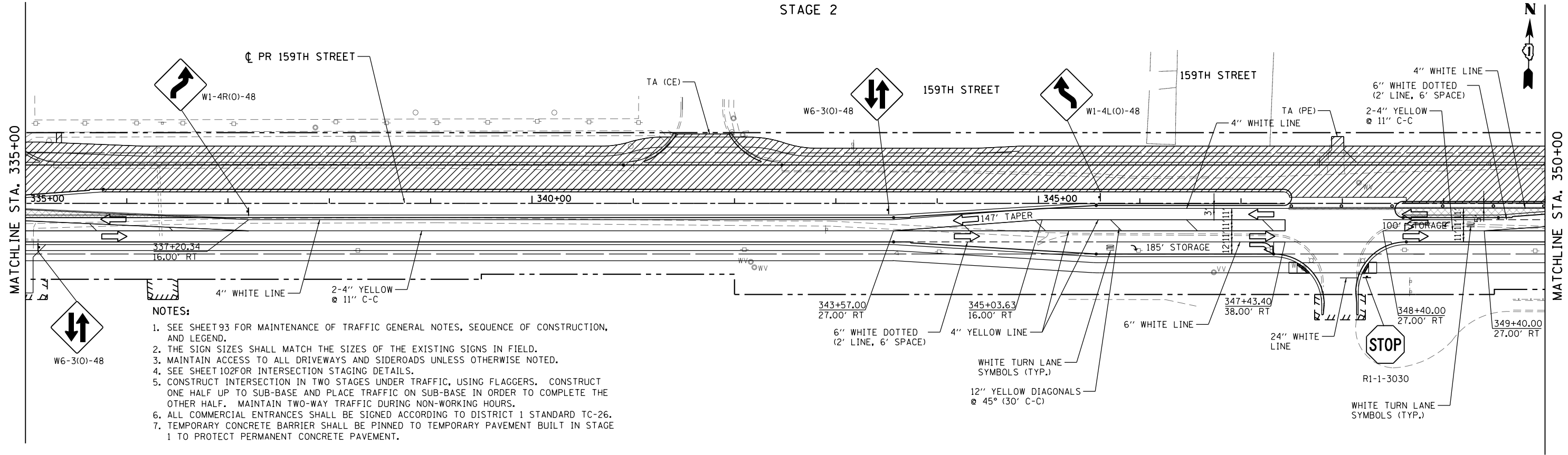


- NOTES:**
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 - CONSTRUCT INTERSECTION IN TWO STAGES UNDER TRAFFIC, USING FLAGGERS. CONSTRUCT ONE HALF UP TO SUB-BASE AND PLACE TRAFFIC ON SUB-BASE IN ORDER TO COMPLETE THE OTHER HALF. MAINTAIN TWO-WAY TRAFFIC DURING NON-WORKING HOURS.
 - ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.



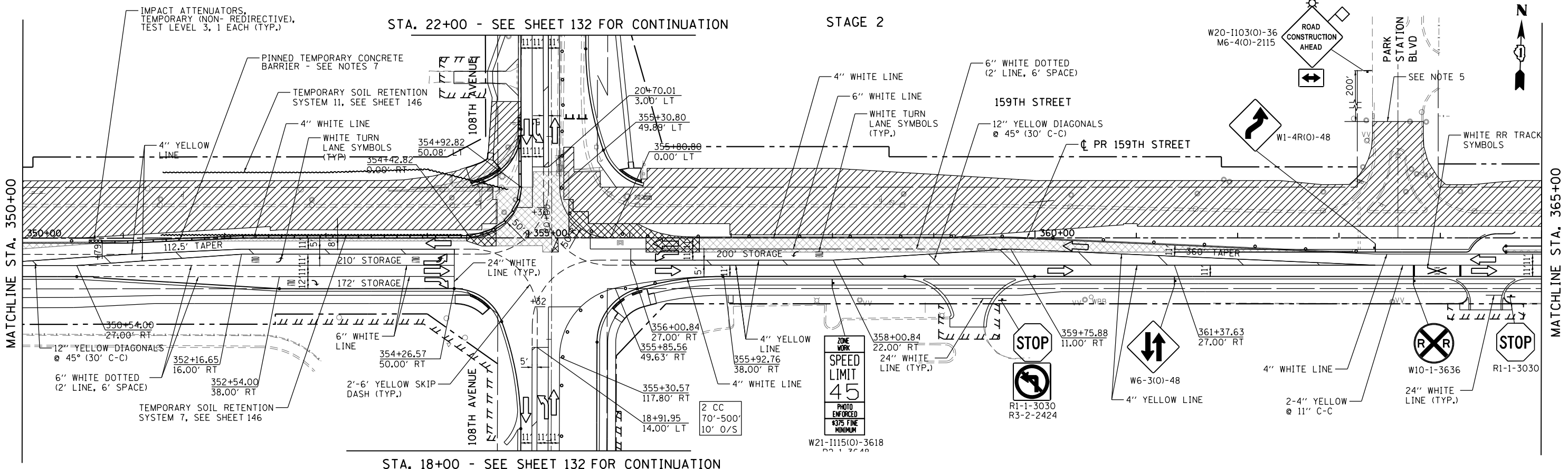
FILE NAME - D:\60L72-sht-staging-Stage2.dgn	USER NAME - rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 2	F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 126
PLLOT SCALE = 1:1100	PLLOT DATE = 10/22/2014	CHECKED - JPW	REVISED -	SCALE: 1"=50'	SHEET 2 OF 6 SHEETS	STA. 305+00.00 TO STA. 335+00.00		CONTRACT NO. 60L72		
DATE - 10/28/14		DATE - 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT						

STAGE 2



NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
5. CONSTRUCT INTERSECTION IN TWO STAGES UNDER TRAFFIC, USING FLAGGERS. CONSTRUCT ONE HALF UP TO SUB-BASE AND PLACE TRAFFIC ON SUB-BASE IN ORDER TO COMPLETE THE OTHER HALF. MAINTAIN TWO-WAY TRAFFIC DURING NON-WORKING HOURS.
6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
7. TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO TEMPORARY PAVEMENT BUILT IN STAGE 1 TO PROTECT PERMANENT CONCRETE PAVEMENT.



STA. 22+00 - SEE SHEET 132 FOR CONTINUATION

STA. 18+00 - SEE SHEET 132 FOR CONTINUATION

FILE NAME = D:\60L72-sht-staging-Stage2.dgn

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

DESIGNED - JPW
 DRAWN - JPW
 CHECKED - JPW
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

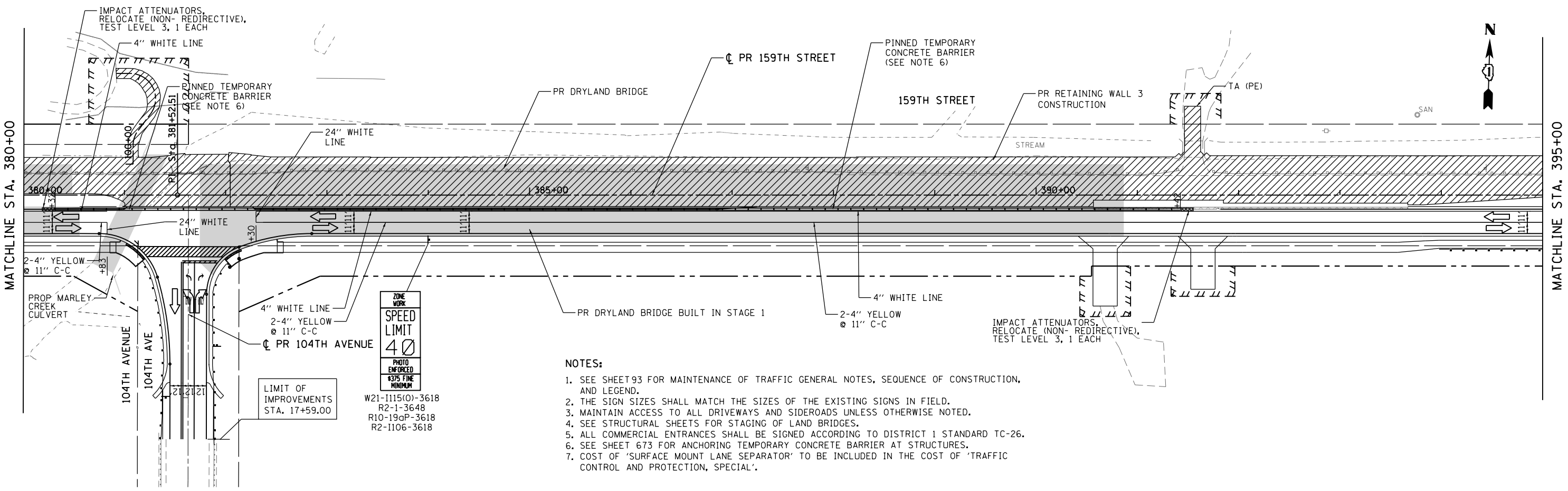
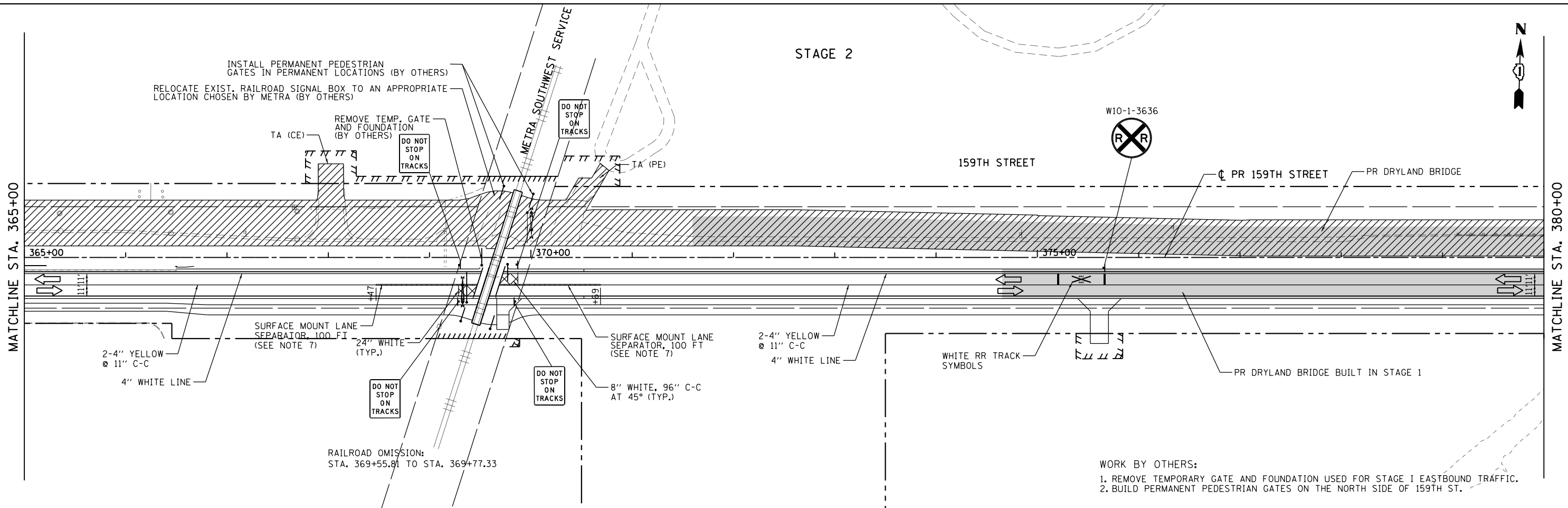
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
 159TH STREET STAGE 2

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 335+00.00 TO STA. 365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	127
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L72	

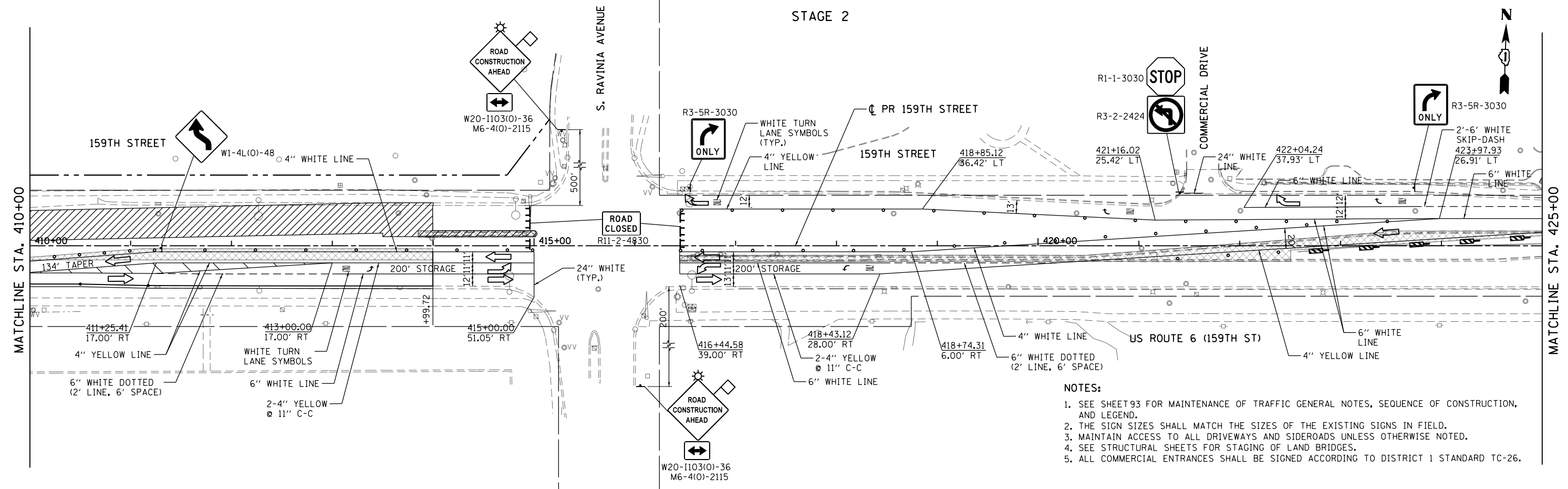
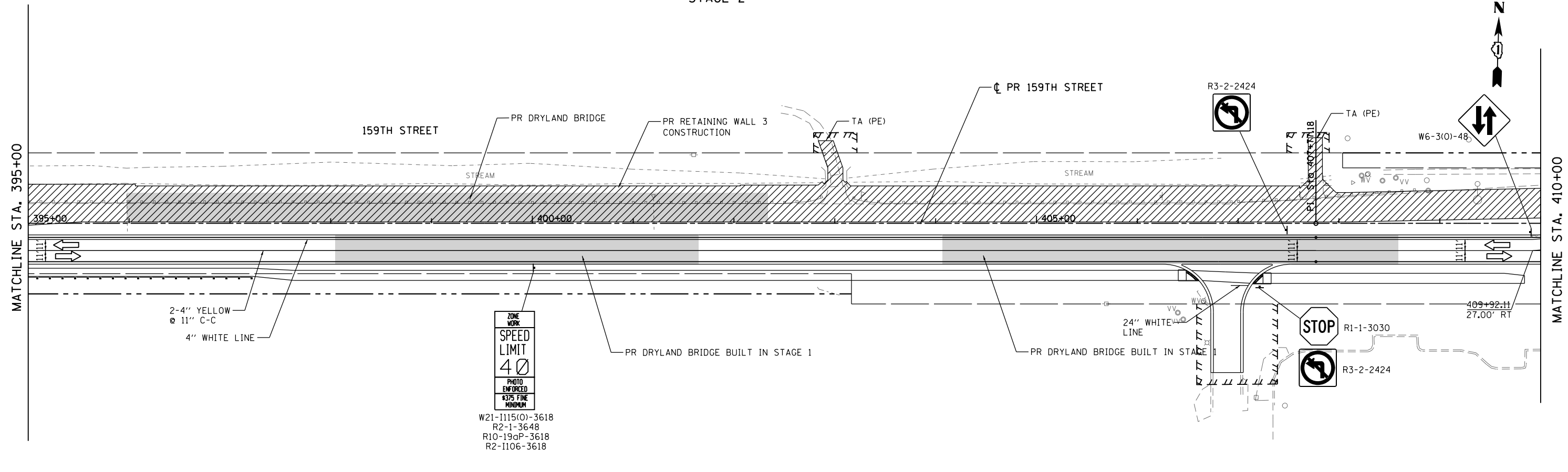
STAGE 2



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 6. SEE SHEET 673 FOR ANCHORING TEMPORARY CONCRETE BARRIER AT STRUCTURES.
 7. COST OF 'SURFACE MOUNT LANE SEPARATOR' TO BE INCLUDED IN THE COST OF 'TRAFFIC CONTROL AND PROTECTION, SPECIAL'.

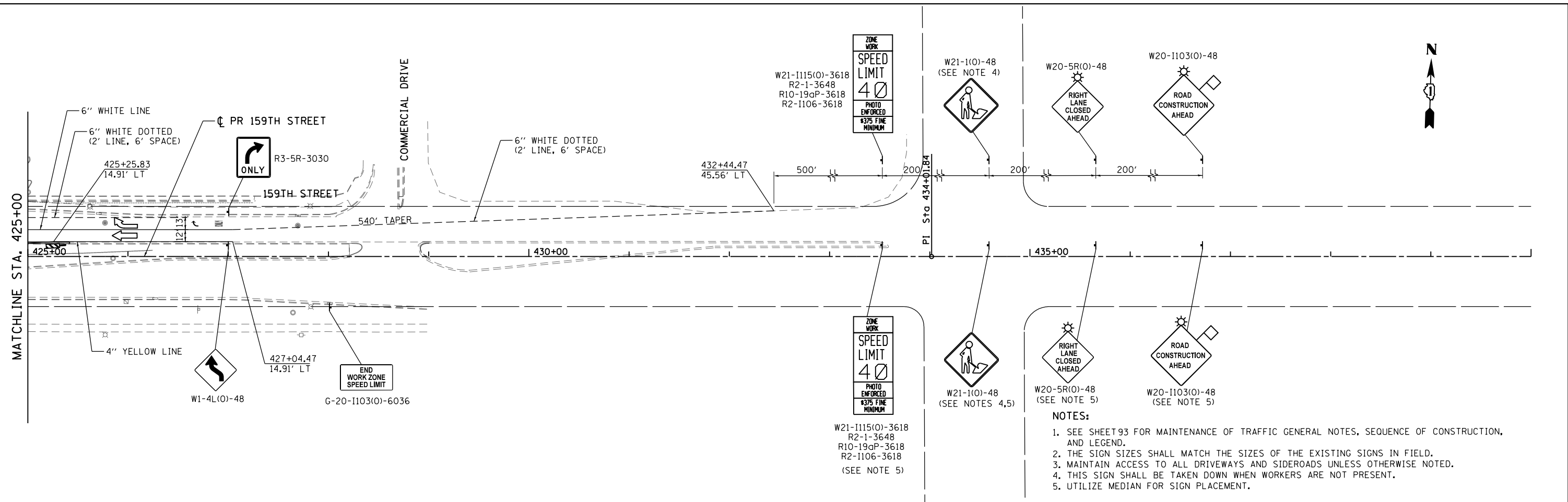
FILE NAME = D160L72-sht-staging-Stage2.dgn	USER NAME = jwiegos	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 2			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 128
#MODELNAME#	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -		SCALE: 1"=50'	SHEET 4	OF 6 SHEETS	STA. 365+00.00	TO STA. 395+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							

STAGE 2



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage2.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 2	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 129
	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 5 OF 6 SHEETS	STA. 395+00.00 TO STA. 425+00.00	CONTRACT NO. 60L72	
MODELNAME	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -							



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
 5. UTILIZE MEDIAN FOR SIGN PLACEMENT.

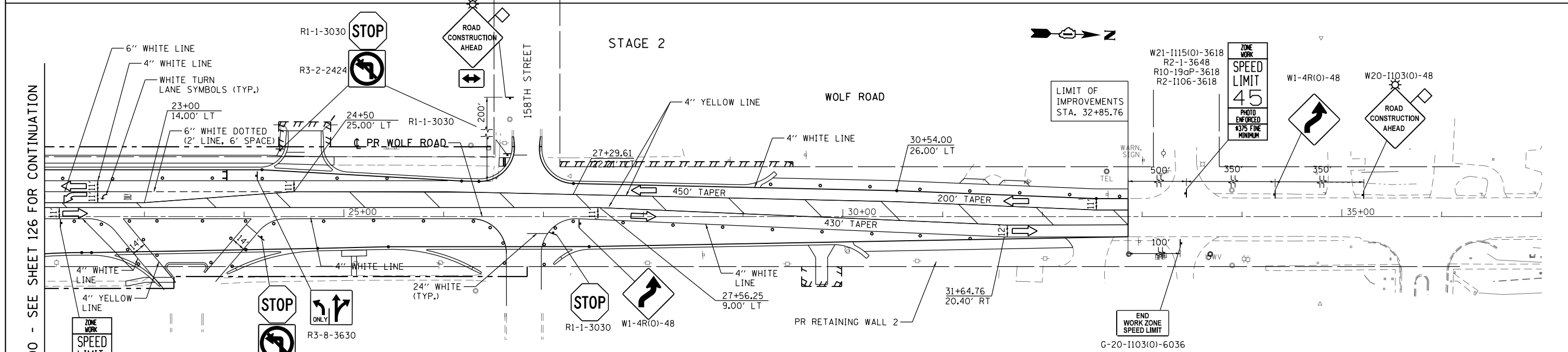
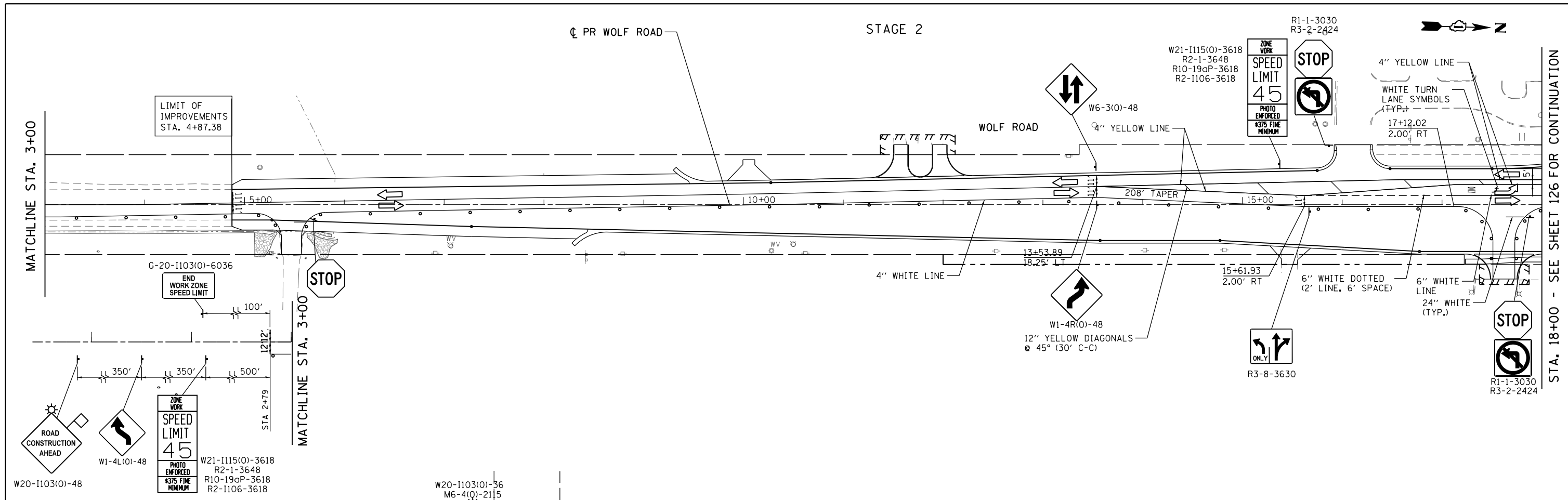
FILE NAME = D:\60L72-sht-staging-Stage2.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -
	PLOT SCALE = 1:100	DRAWN - JPW	REVISED -
#MODELNAME#	PLOT DATE = 10/22/2014	CHECKED -	REVISED -
		DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
159TH STREET STAGE 2**

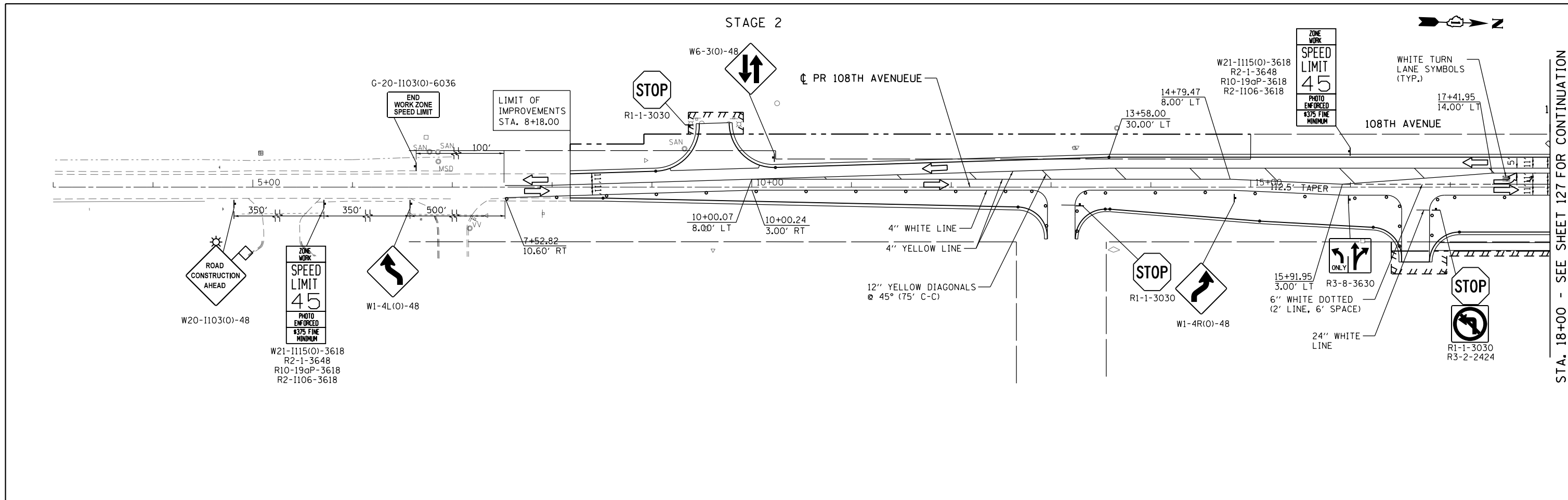
SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 425+00.00 TO STA. 432+44.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	130
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	

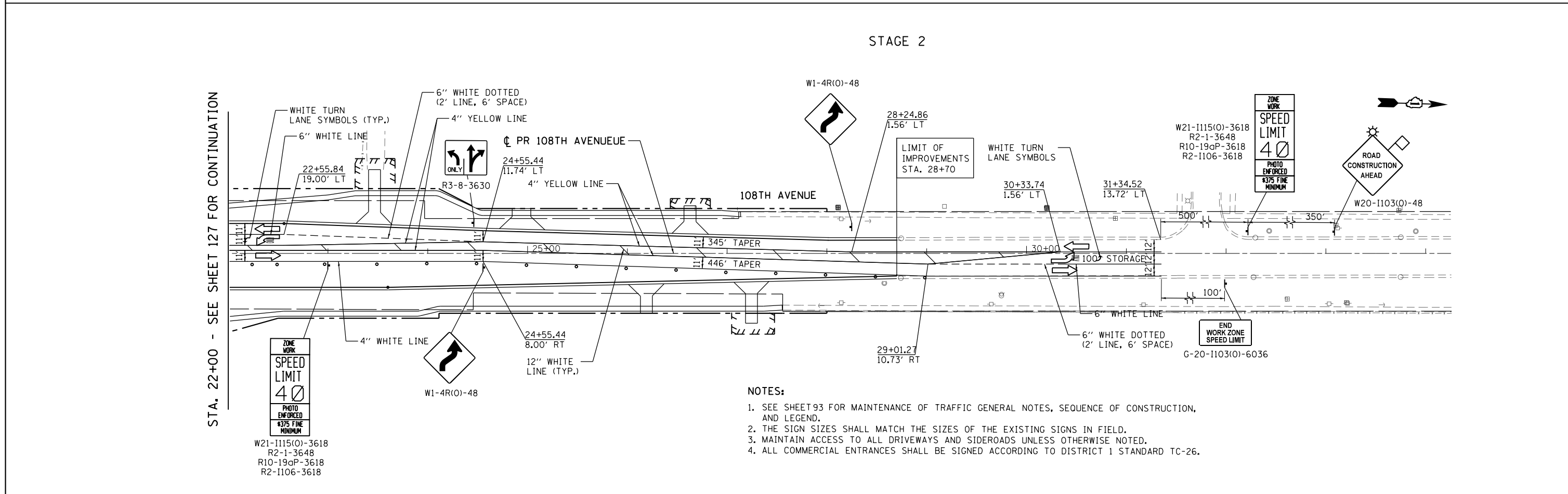


- NOTES:
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage2.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 2			F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 131
	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -					SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 2+79.00 TO STA. 32+85.76			CONTRACT NO. 60L72	
#MODELNAME#	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT								



STA. 18+00 - SEE SHEET 127 FOR CONTINUATION

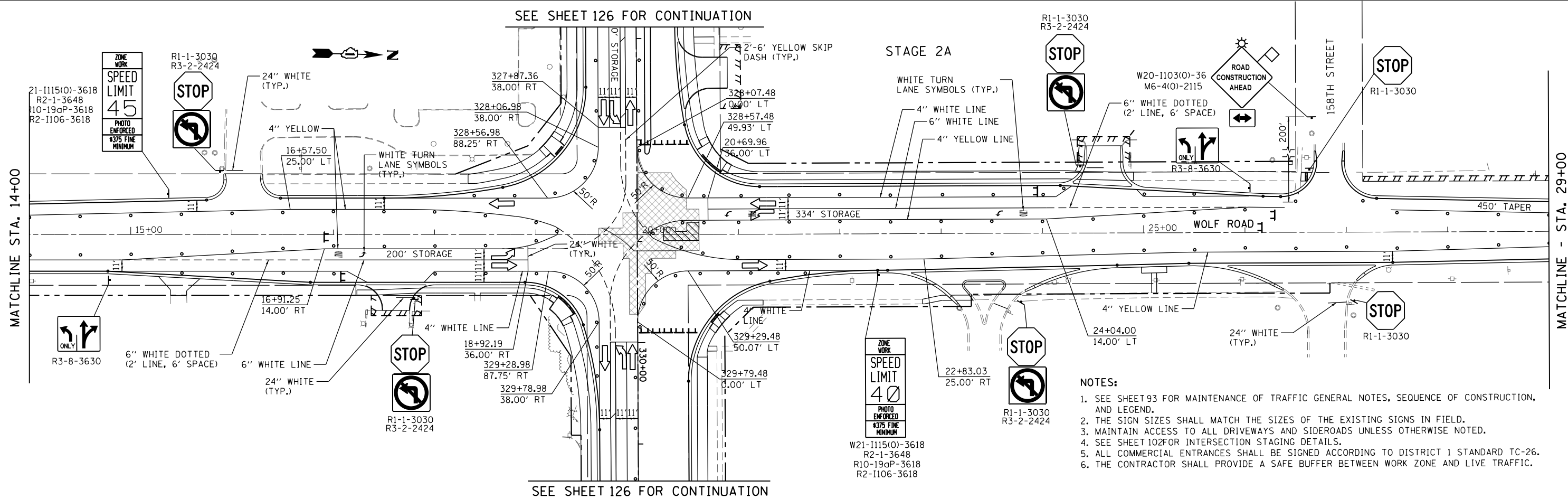
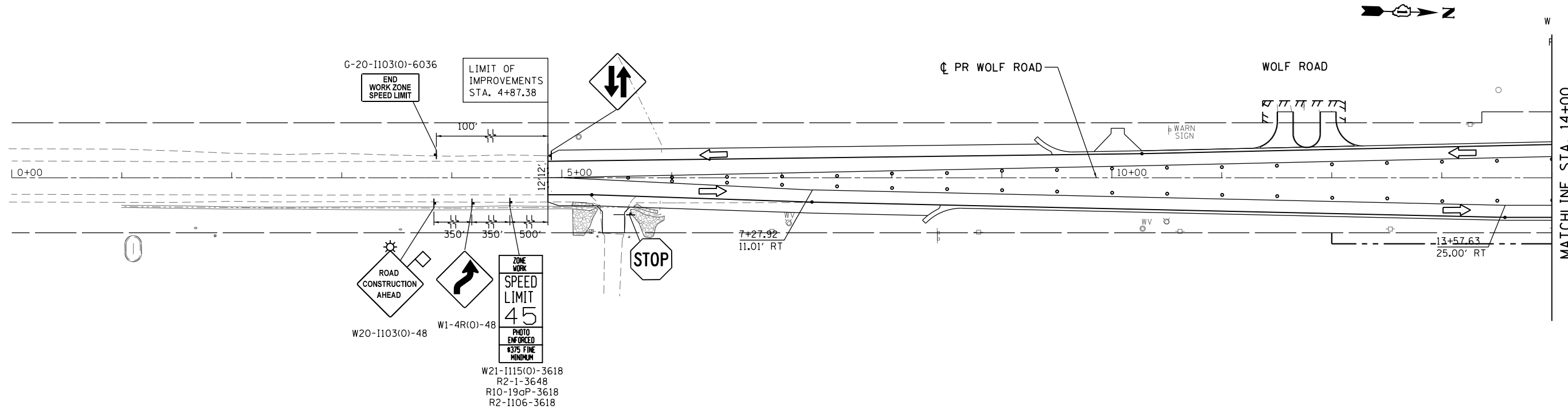


STA. 22+00 - SEE SHEET 127 FOR CONTINUATION

- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage2.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 2			F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 132
	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -					SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA. 7+52.82 TO STA. 31+34.52	CONTRACT NO. 60L72	
#MODELNAME#	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -					ILLINOIS FED. AID PROJECT				

STAGE 2A



- NOTES:**
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 - ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 - THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage2A.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

DESIGNED - JPW
 DRAWN - JPW
 CHECKED -
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

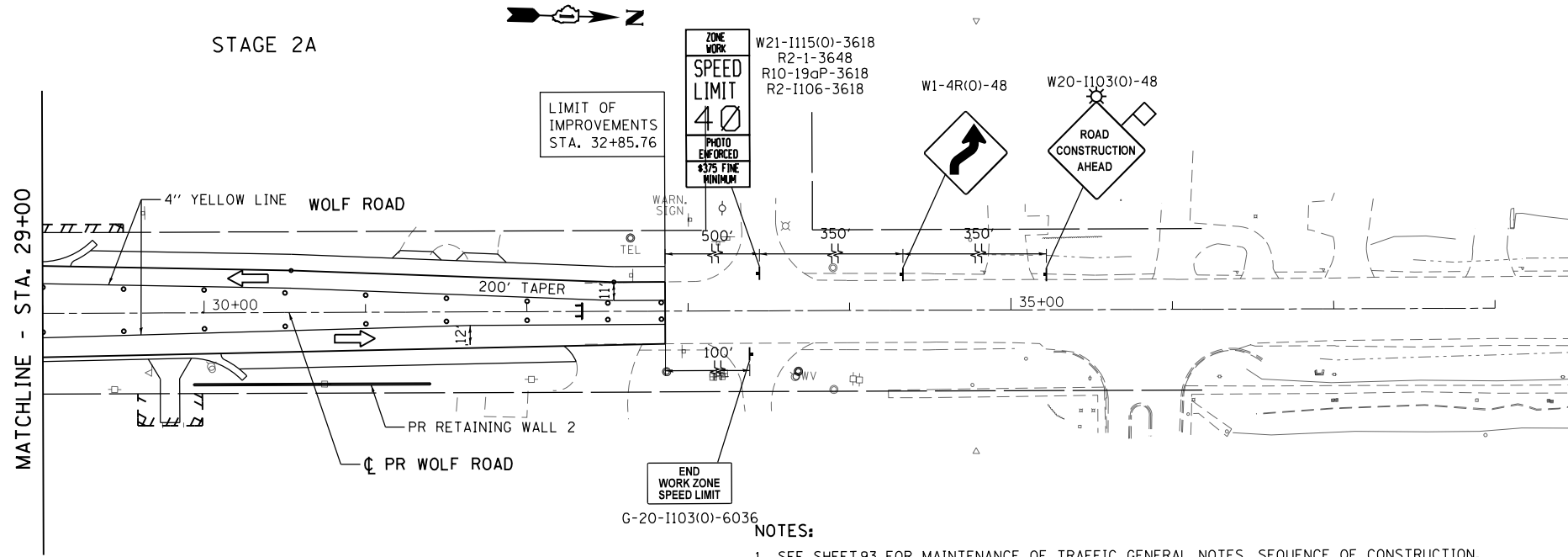
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
 WOLF ROAD STAGE 2A**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 4+87.38 TO STA. 29+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	133
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	

STAGE 2A



END WORK ZONE SPEED LIMIT
G-20-1103(0)-6036

NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
5. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

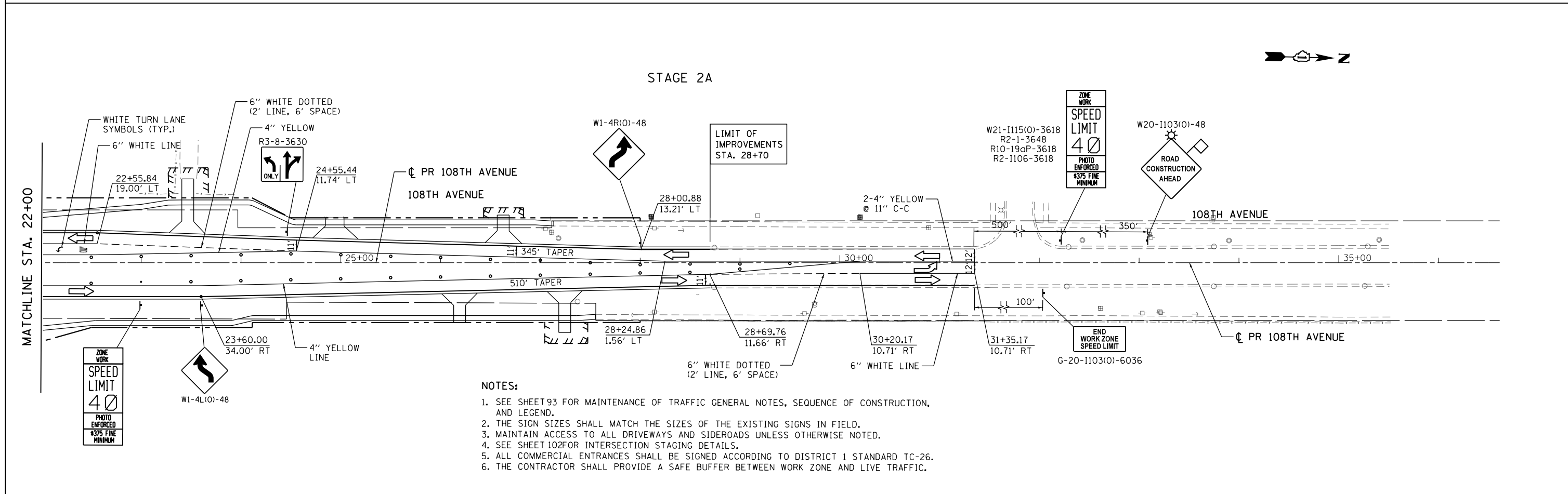
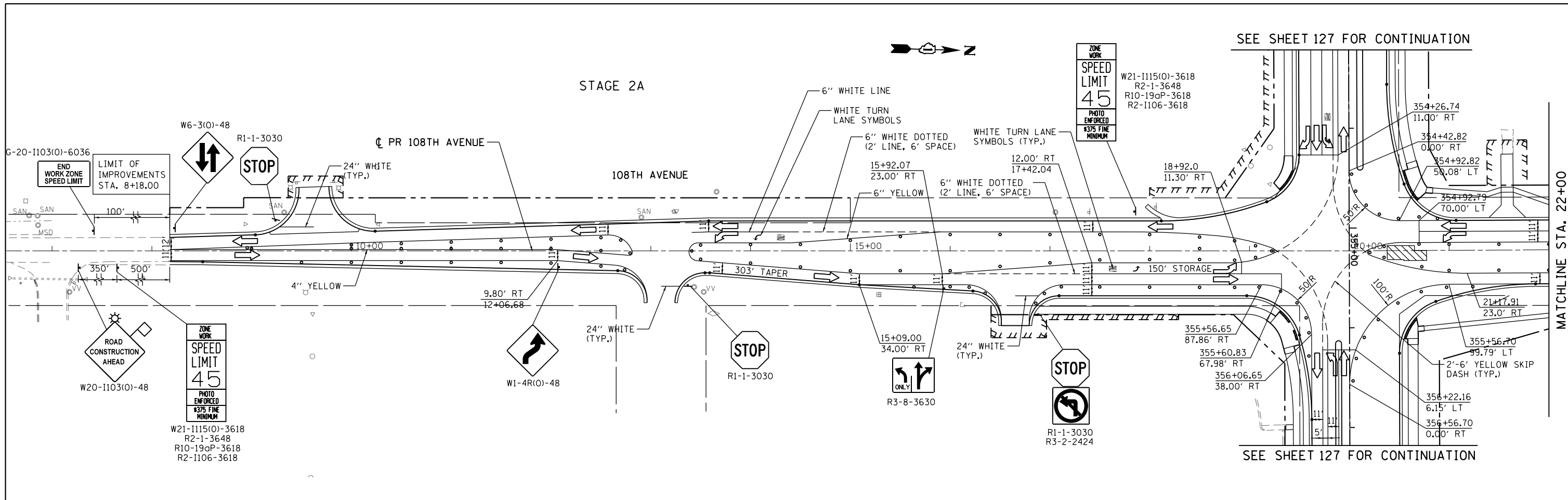
FILE NAME = D:\60L72-sht-staging-Stage2A.dgn	USER NAME = rdenley	DESIGNED - JPW	REVISED -
		DRAWN - JPW	REVISED -
	PLOT SCALE = 1:100	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC
WOLF ROAD STAGE 2A

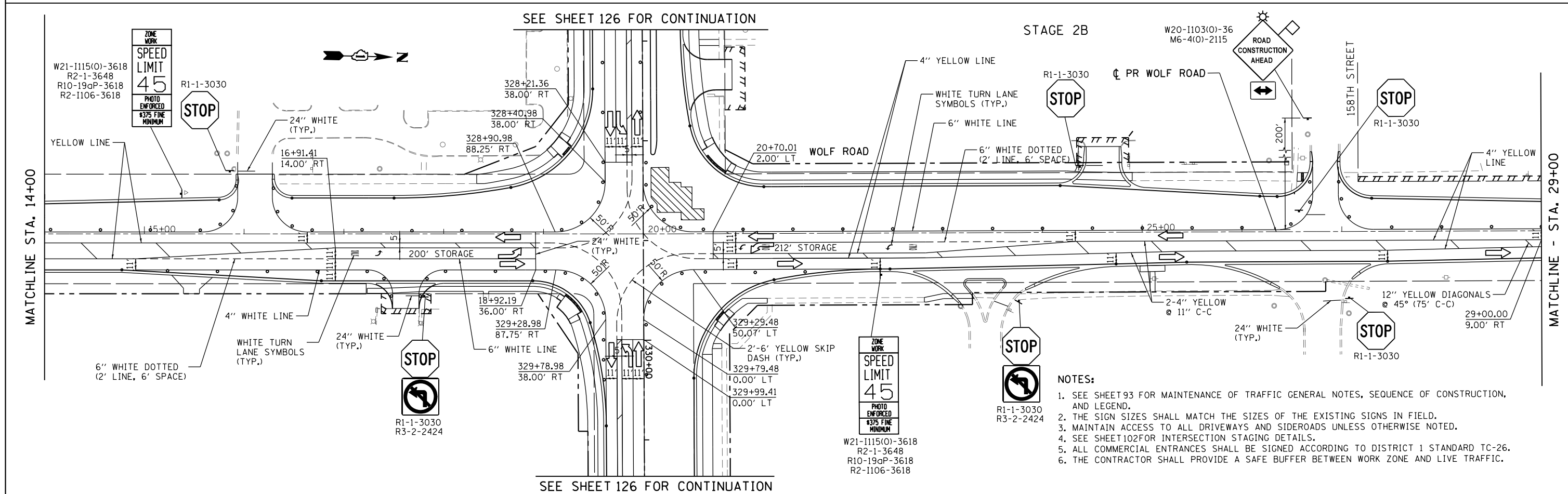
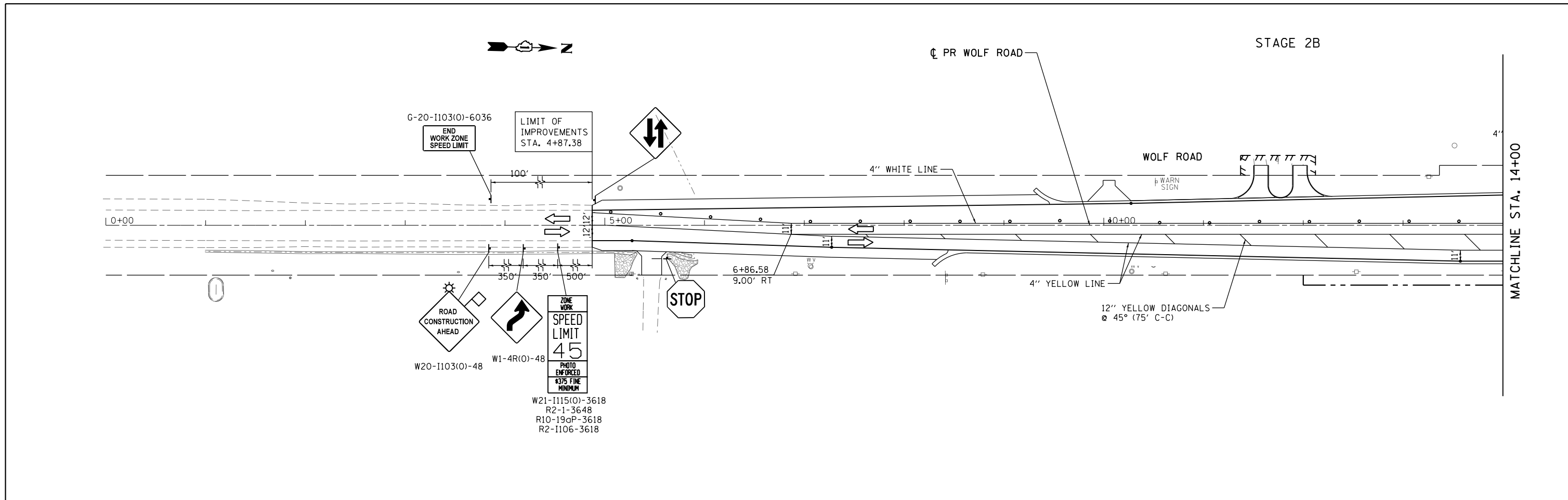
SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 29+00.00 TO STA. 32+85.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	134
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 6. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

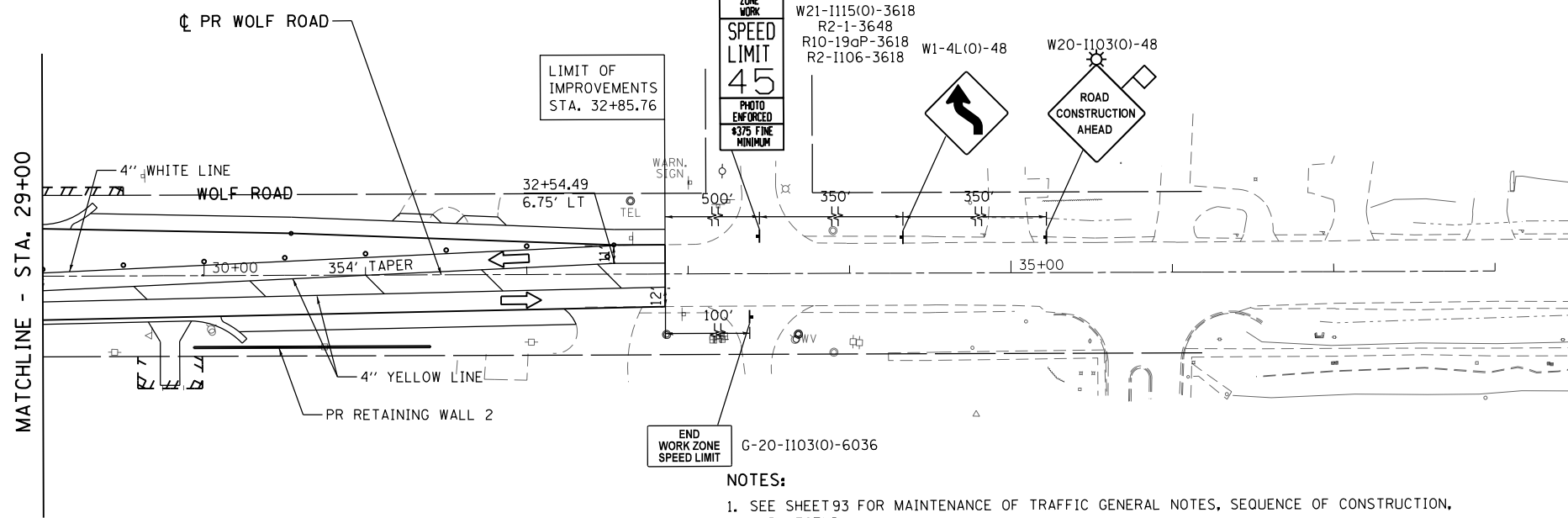
FILE NAME = D:\60L72-sht-staging-Stage2A.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 2A			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 135
	PLOT SCALE = 1:1000	CHECKED - JPW	REVISED -					SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA. 8+18.00	TO STA. 31+35.17
#MODELNAME#	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -					ILLINOIS FED. AID PROJECT				



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 6. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

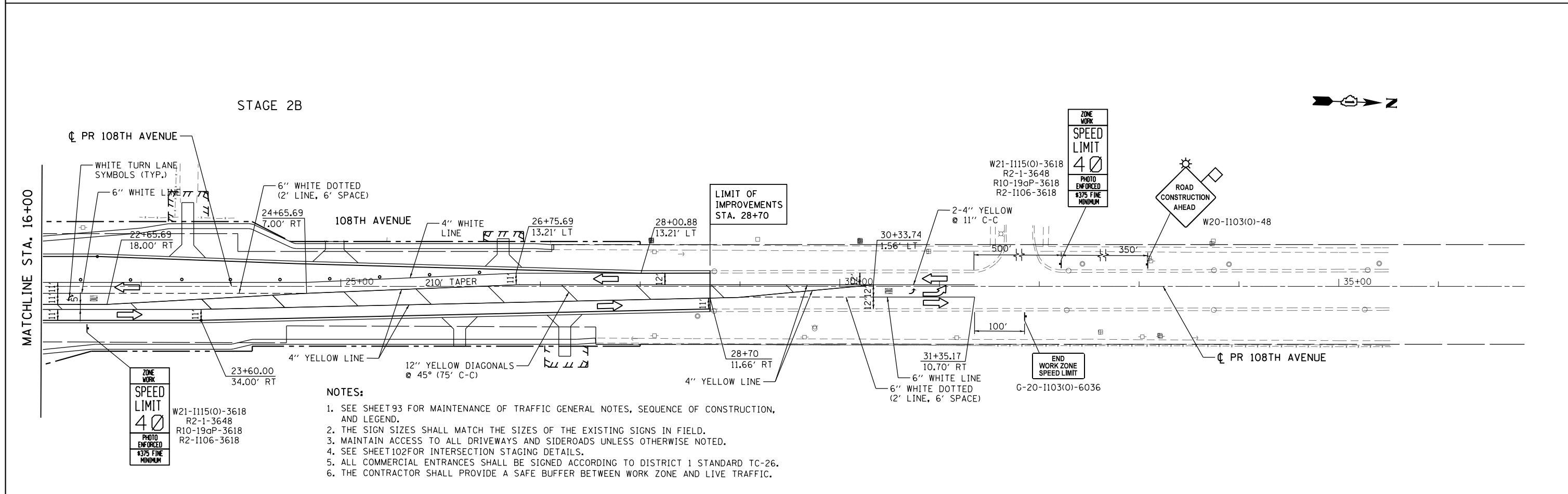
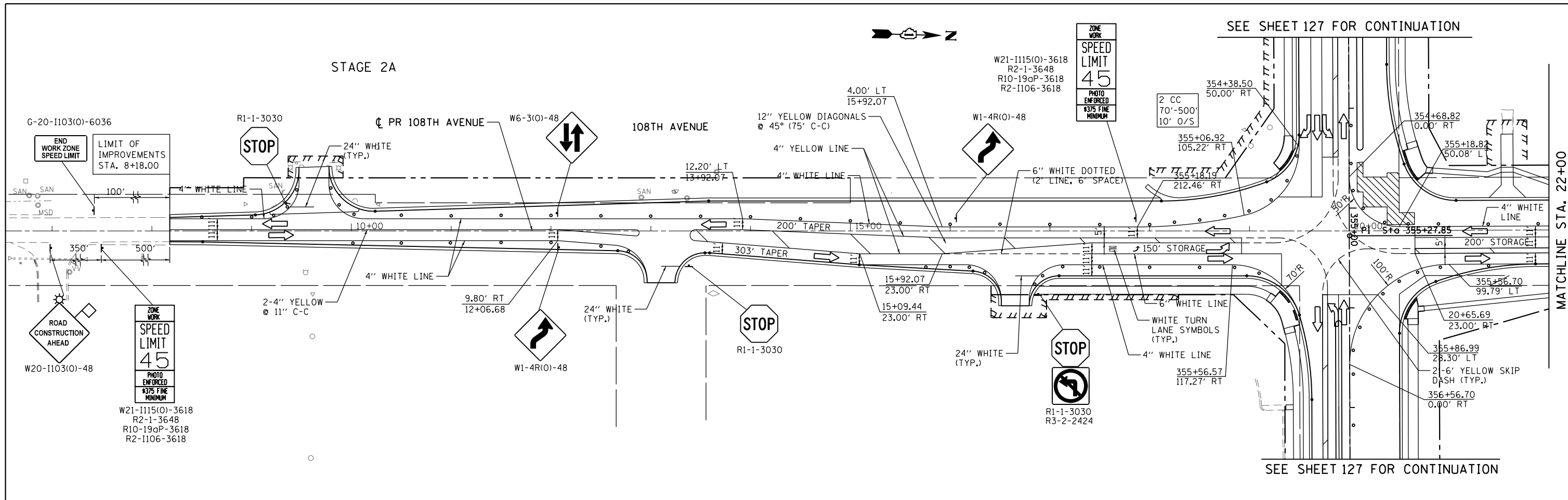
FILE NAME = D160L72-sht-staging-Stage2B.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 2B	F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 136		
#MODELNAME#	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 1 OF 2 SHEETS	STA. 4+87.38	TO STA. 29+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT						

STAGE 2B



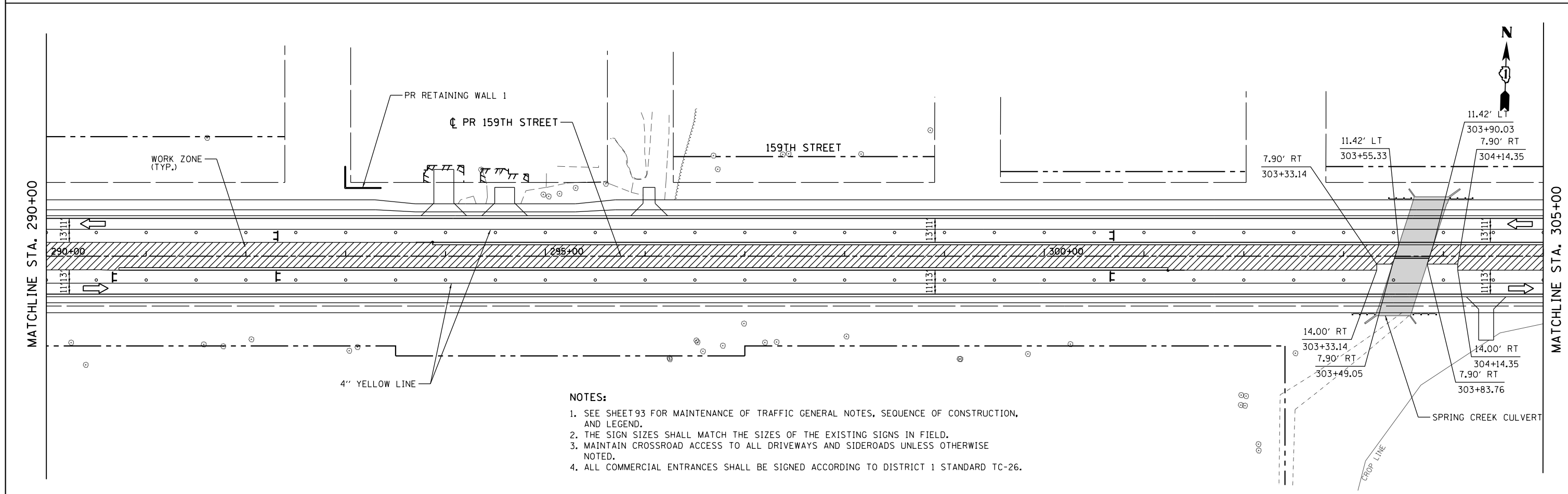
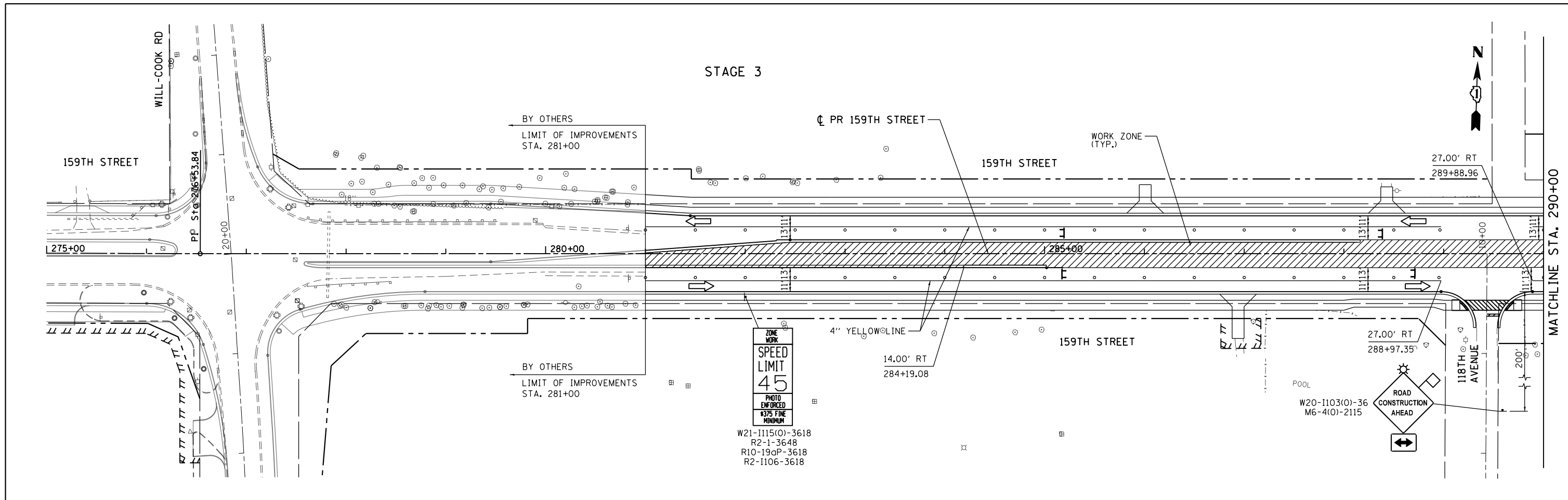
- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 6. THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage2B.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC WOLF ROAD STAGE 2B	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 137
	PLOT SCALE = 1:100	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET 2 OF 2 SHEETS	STA. 29+00.00 TO STA. 32+85.76	CONTRACT NO. 60L72	
MODELNAME	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -							



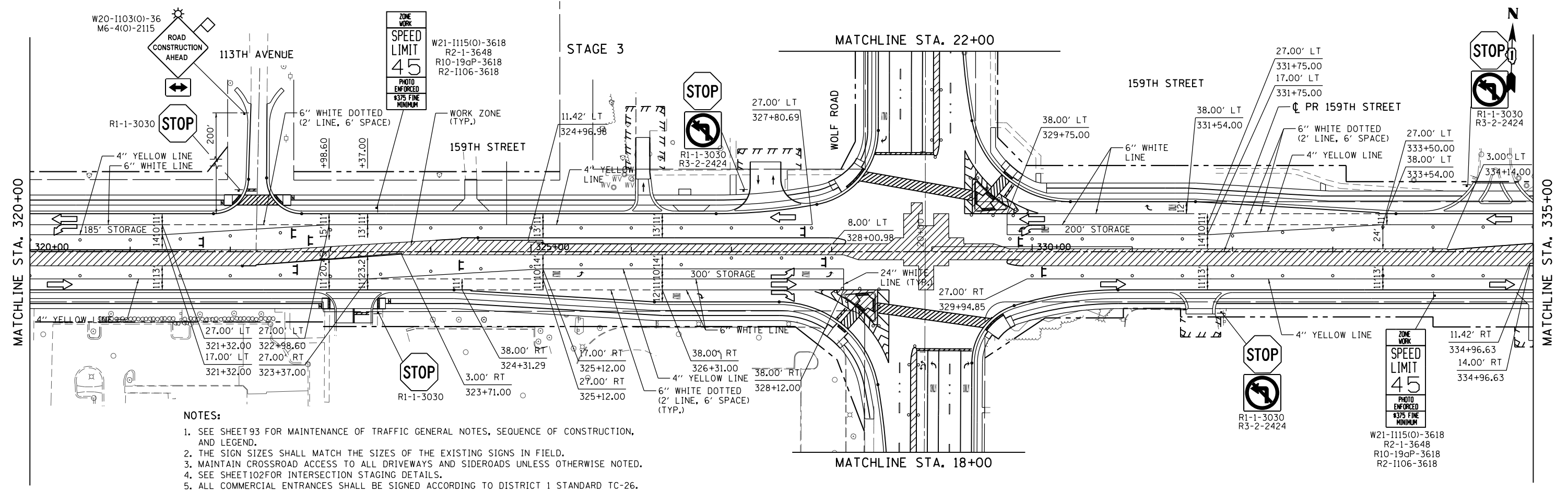
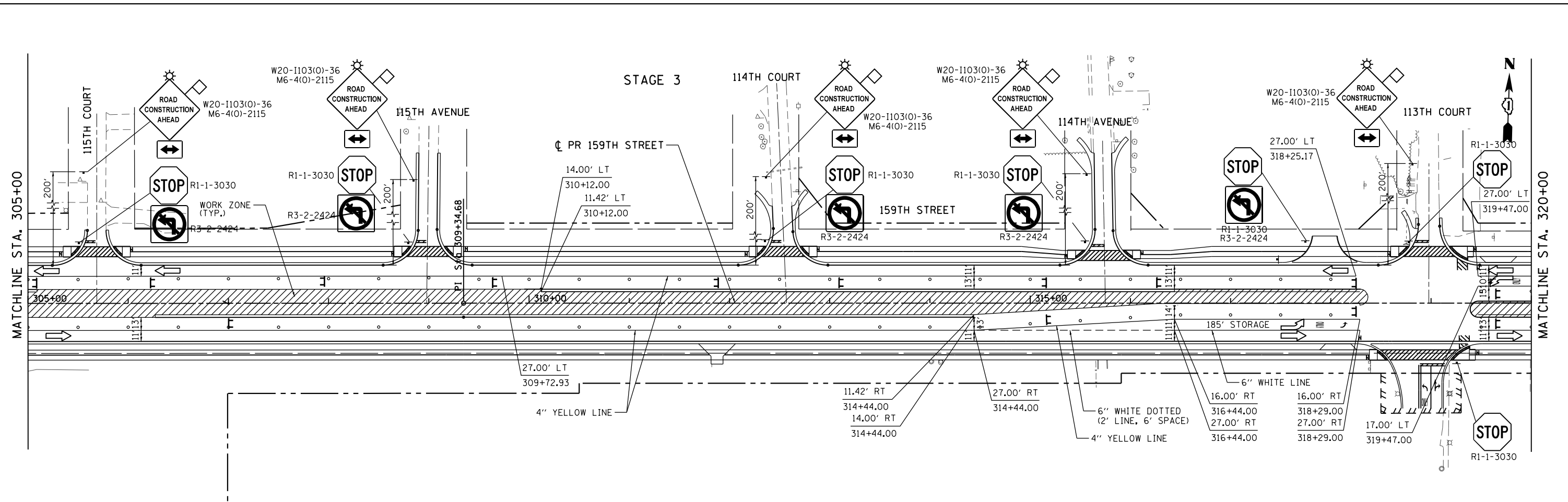
- NOTES:**
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 - ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 - THE CONTRACTOR SHALL PROVIDE A SAFE BUFFER BETWEEN WORK ZONE AND LIVE TRAFFIC.

FILE NAME = D:\60L72-sht-staging-Stage2B.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 108TH AVENUE STAGE 2B	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 138		
MODEL NAME =	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 1 OF 1 SHEETS	STA. 8+18.00	TO STA. 31+35.17	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT						



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage3.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 3	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			351	2010-081-R	COOK	1045	139
MODELNAME	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 281+00.00 TO STA. 305+00.00		ILLINOIS FED. AID PROJECT CONTRACT NO. 60L72				



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 5. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

FILE NAME = D:\60L72-sht-staging-Stage3.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:1000
 PLOT DATE = 10/22/2014

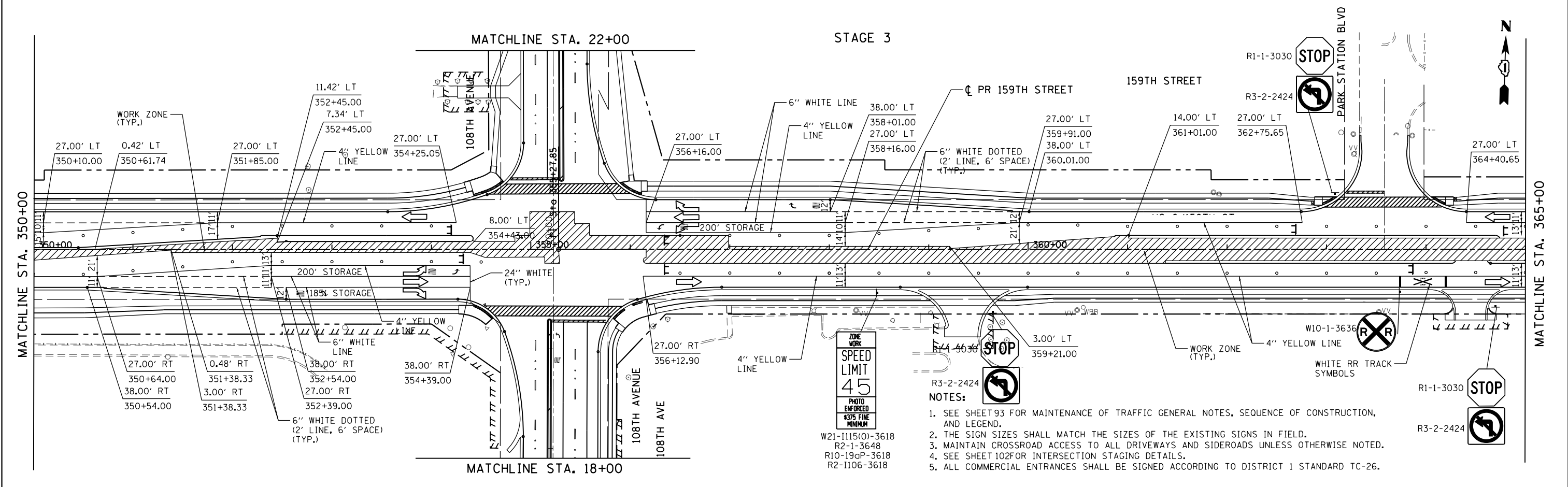
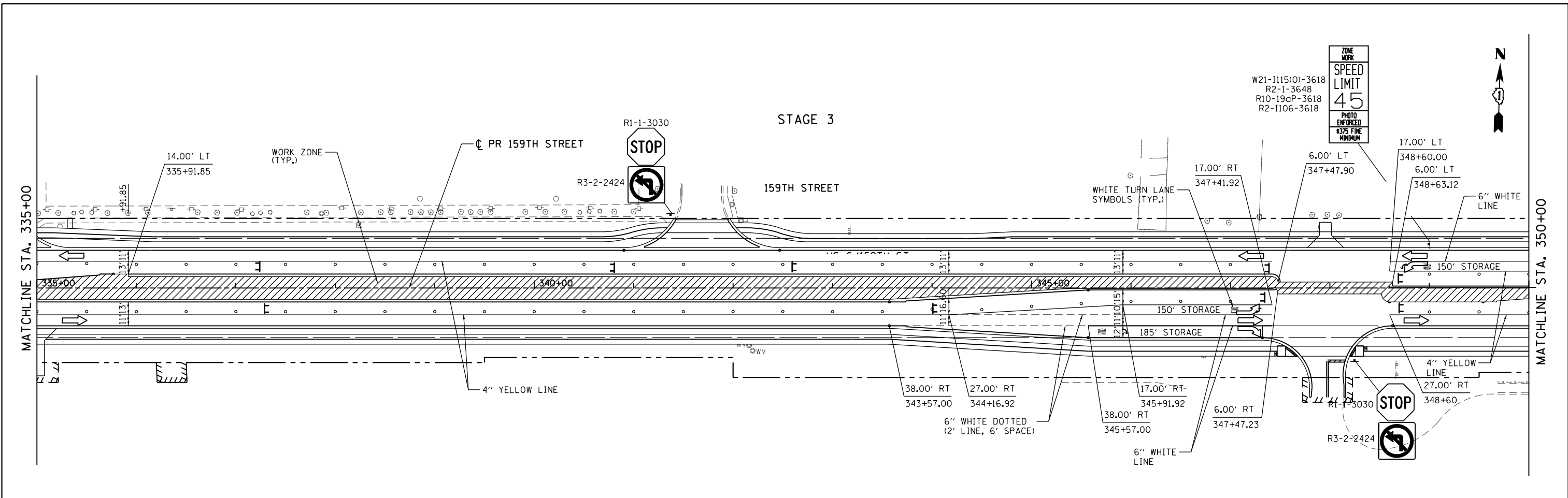
DESIGNED - JPW
 DRAWN - JPW
 CHECKED -
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
 159TH STREET STAGE 3**
 SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 305+00.00 TO STA. 335+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	140
ILLINOIS FED. AID PROJECT				CONTRACT NO. 60L72



FILE NAME = D:\60L72-sht-staging-Stage3.dgn
 #MODELNAME#

USER NAME = rdonley
 DESIGNED - JPW
 DRAWN - JPW
 CHECKED -
 DATE - 10/22/2014

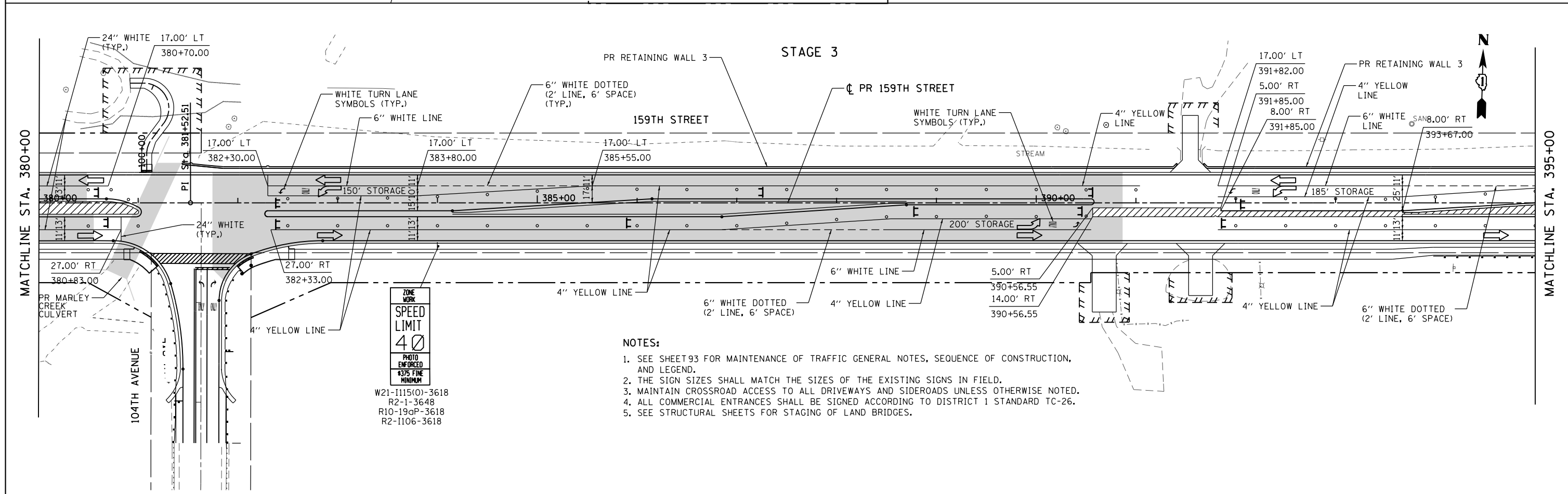
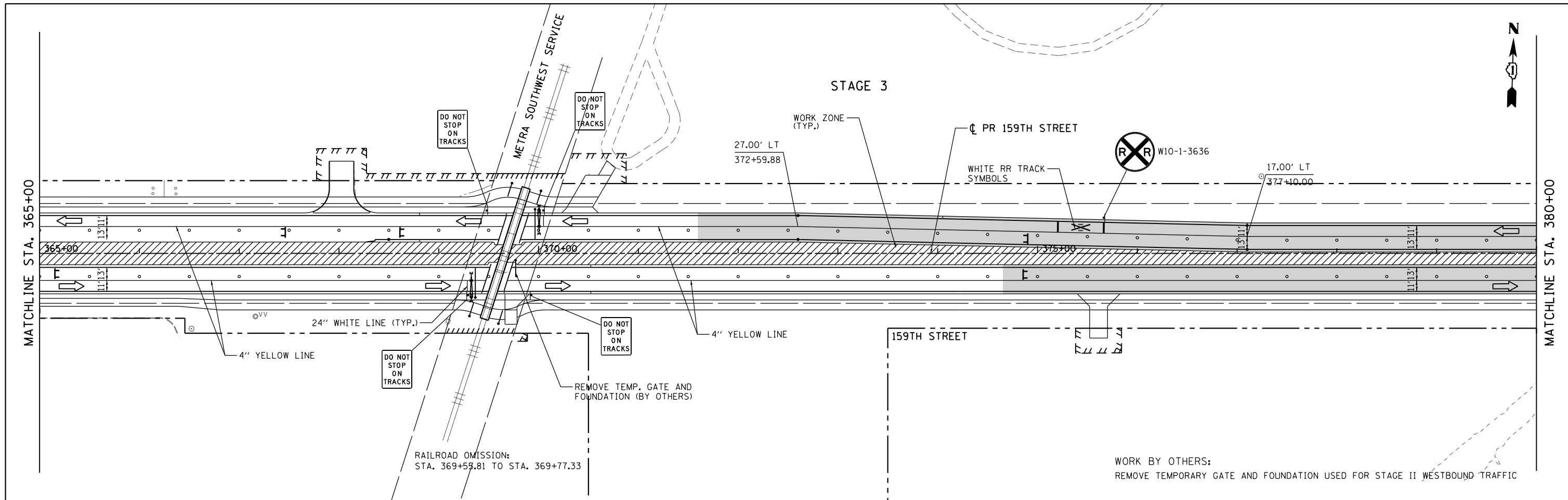
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
 159TH STREET STAGE 3**
 SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 335+00.00 TO STA. 365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	141
CONTRACT NO. 60L72				ILLINOIS FED. AID PROJECT

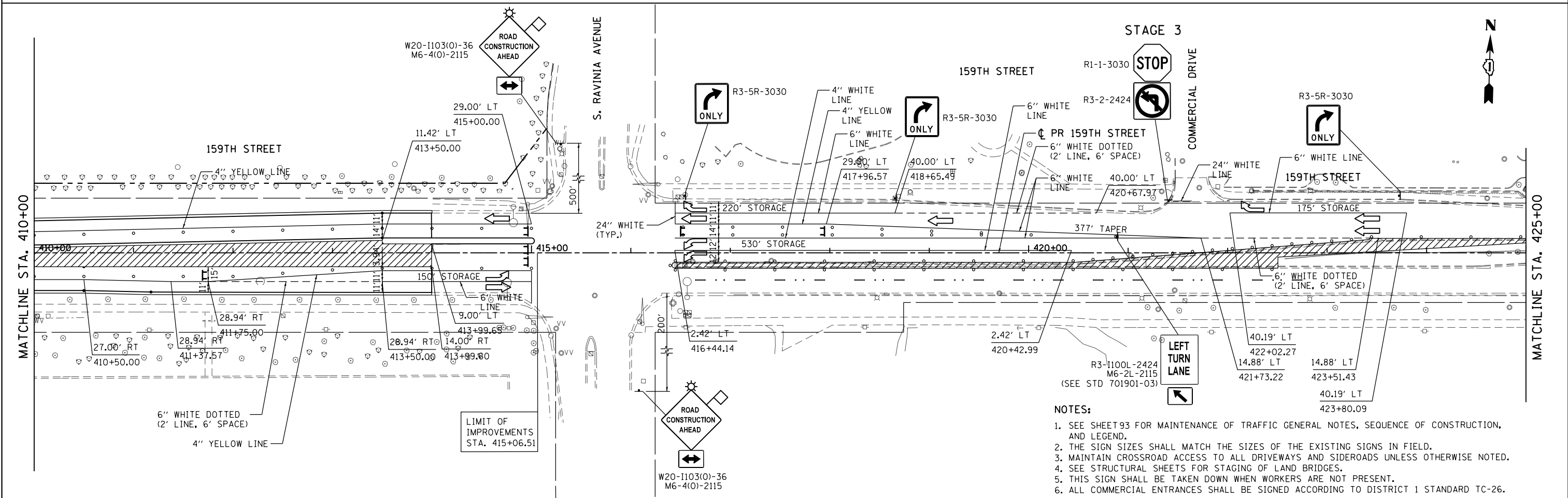
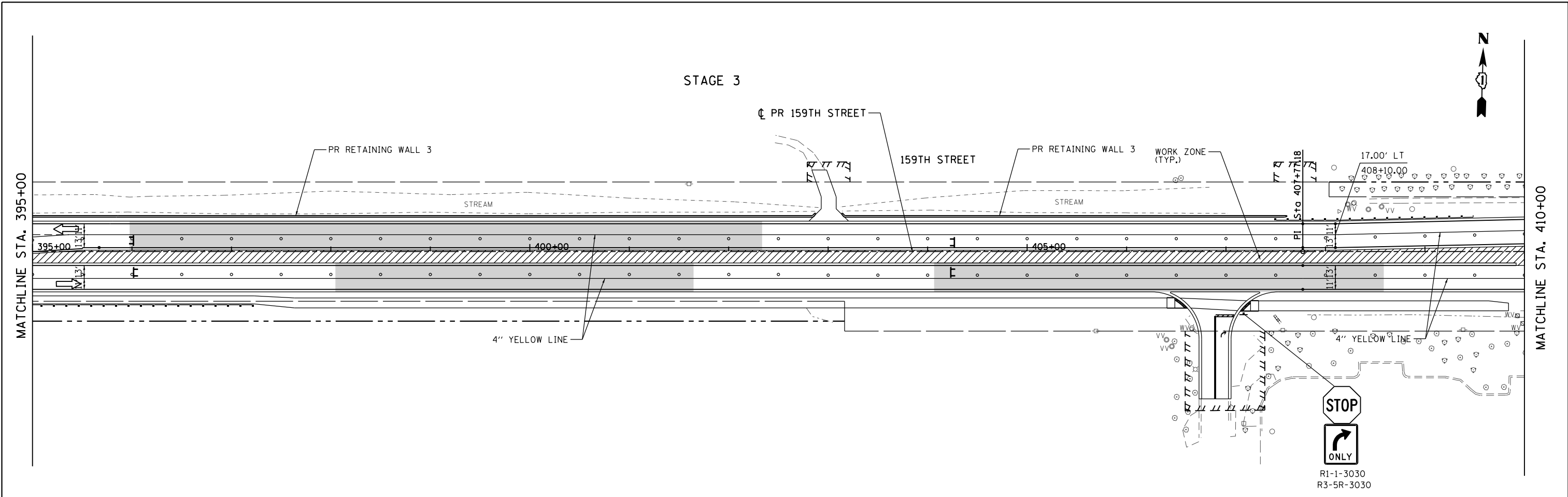
- NOTES:
- SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 - THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 - MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 - SEE SHEET 102 FOR INTERSECTION STAGING DETAILS.
 - ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.



NOTES:

1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
3. MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
5. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.

FILE NAME = D160L72-sh-t-staging-Stage3.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 3	F.A.P. R.T.E. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 142		
#MODELNAME#	PLOT SCALE = 1:1100	CHECKED - JPW	REVISED -			SCALE: 1"=50'	SHEET 4 OF 6 SHEETS	STA. 365+00.00 TO STA. 395+00.00	CONTRACT NO. 60L72			
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT						



- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. SEE STRUCTURAL SHEETS FOR STAGING OF LAND BRIDGES.
 5. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.
 6. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.

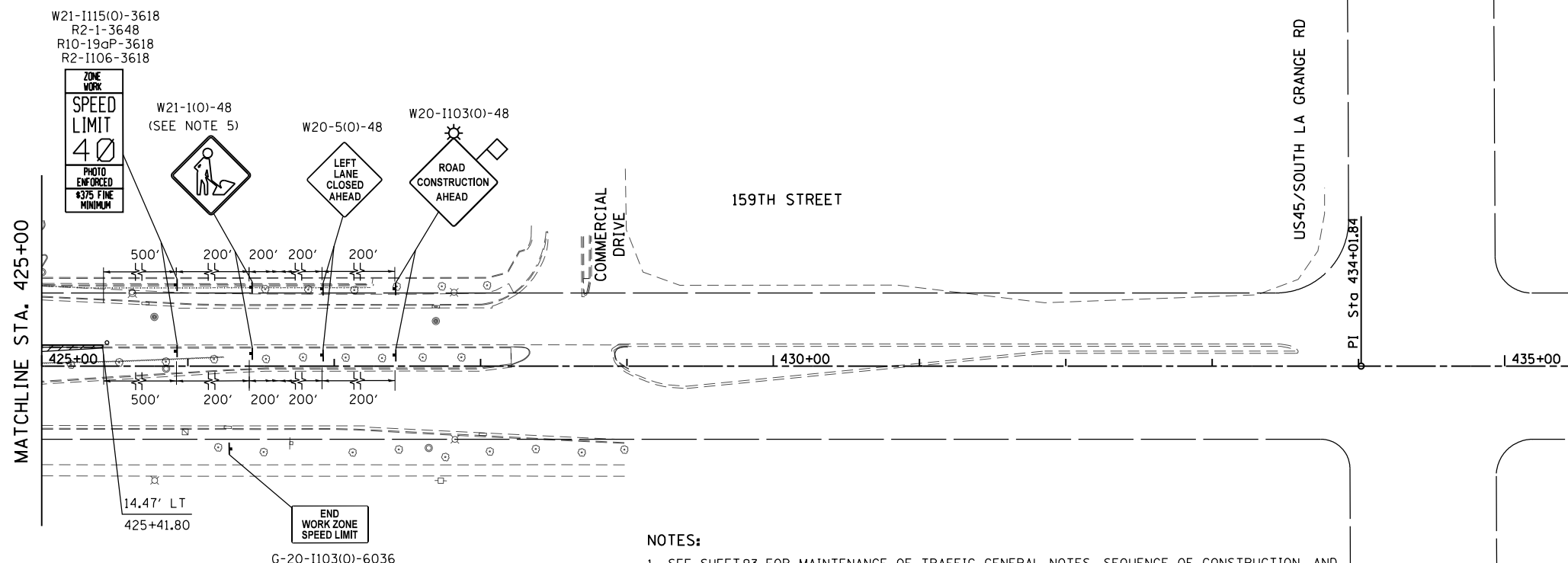
FILE NAME = D:\60L72-sht-staging-Stage3.dgn	USER NAME = rdonley	DESIGNED - JPW	REVISED -
	PLOT SCALE = 1:1000	DRAWN - JPW	REVISED -
	PLOT DATE = 10/22/2014	CHECKED -	REVISED -
		DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC
159TH STREET STAGE 3**

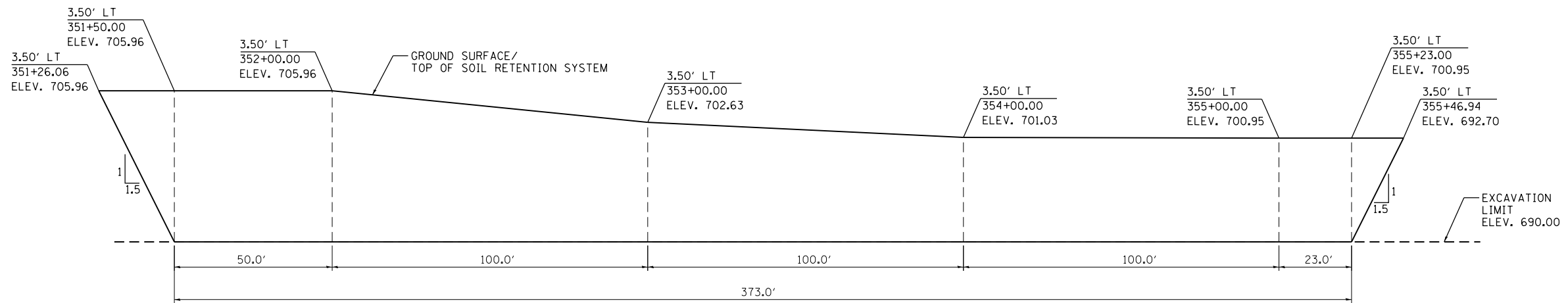
SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 395+00.00 TO STA. 425+00.00

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	143
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				

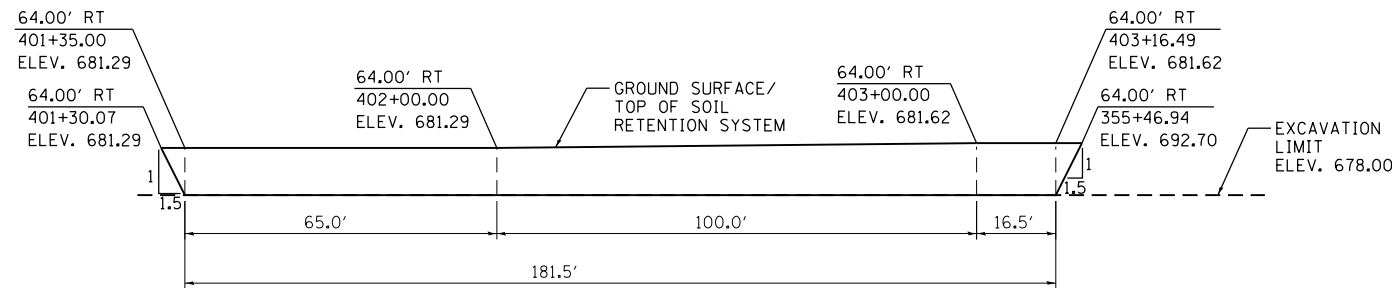


- NOTES:**
1. SEE SHEET 93 FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND LEGEND.
 2. THE SIGN SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
 3. MAINTAIN CROSSROAD ACCESS TO ALL DRIVEWAYS AND SIDEROADS UNLESS OTHERWISE NOTED.
 4. ALL COMMERCIAL ENTRANCES SHALL BE SIGNED ACCORDING TO DISTRICT 1 STANDARD TC-26.
 5. THIS SIGN SHALL BE TAKEN DOWN WHEN WORKERS ARE NOT PRESENT.

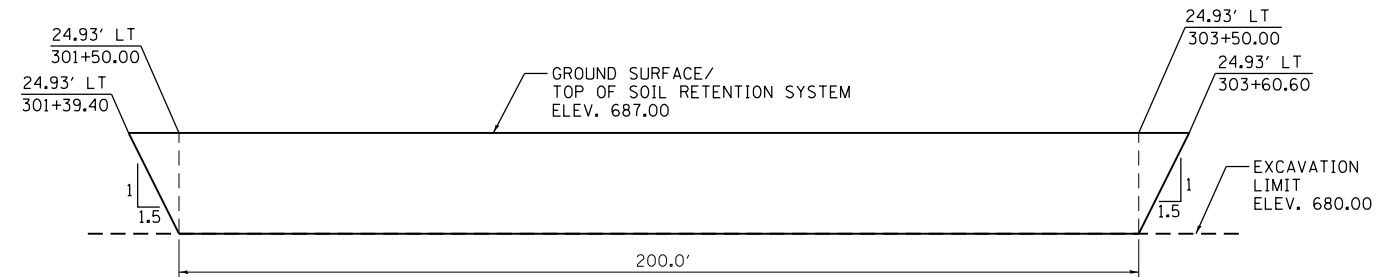
FILE NAME = D:\60L72-sht-staging-Stage3.dgn	USER NAME = rdonley	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED MAINTENANCE OF TRAFFIC 159TH STREET STAGE 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED -	REVISED -					351	2010-081-R	COOK	1045	144
MODELNAME	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	SCALE: 1"=50'	SHEET 6	OF 6	SHEETS	STA. 425+00.00	TO STA. 425+41.80	CONTRACT NO. 60L72 ILLINOIS FED. AID PROJECT		



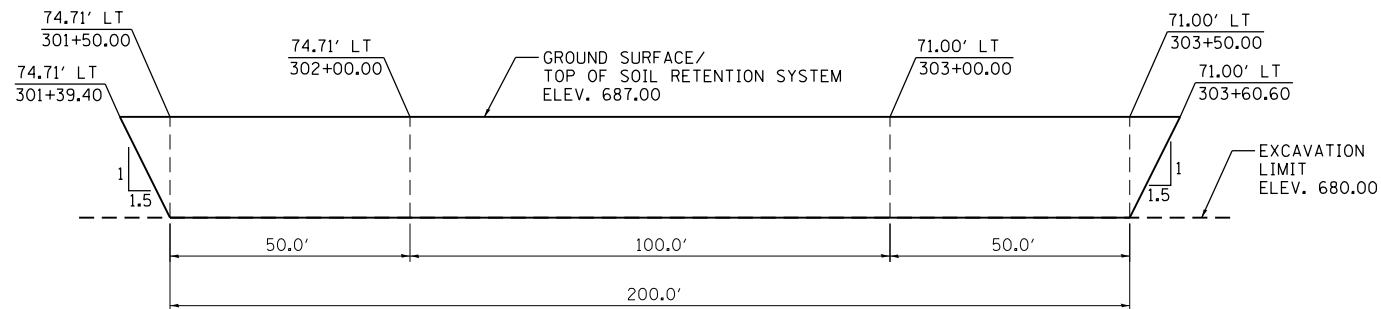
TEMPORARY SOIL RETENTION SYSTEM 7
STA. 351+26.06 TO STA. 355+46.94



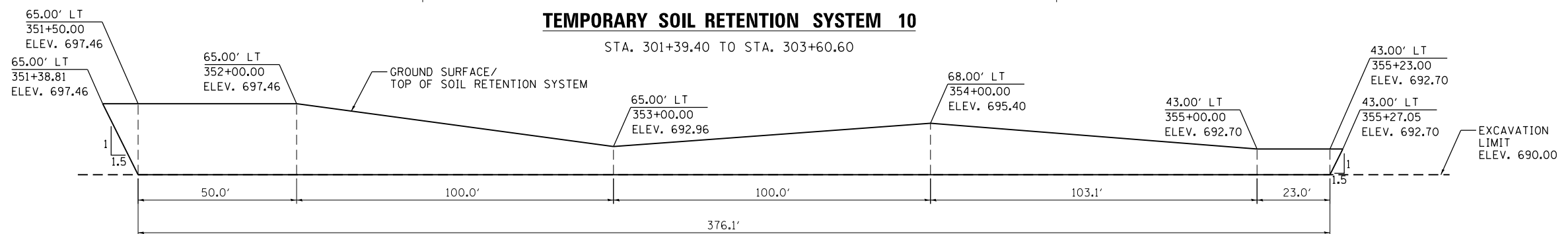
TEMPORARY SOIL RETENTION SYSTEM 8
STA. 401+30.07 TO STA. 403+21.43



TEMPORARY SOIL RETENTION SYSTEM 9
STA. 301+39.40 TO STA. 303+60.60



TEMPORARY SOIL RETENTION SYSTEM 10
STA. 301+39.40 TO STA. 303+60.60



TEMPORARY SOIL RETENTION SYSTEM 11
STA. 351+38.81 TO STA. 355+27.05

NOTES

1. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE INSTALLING TEMPORARY SOIL RETENTION SYSTEM. ANY DISTURBANCE OR DAMAGE TO EXISTING STRUCTURES, UTILITIES OR OTHER PROPERTY, CAUSED BY THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED BY THE CONTRACTOR IN A MANNER SATISFACTORY TO THE ENGINEER AT NO ADDITIONAL COST.
2. THE CONTRACTOR MAY ELECT TO CUT OFF A PORTION OF THE SHEET PILING LEAVING THE REMAINDER IN PLACE. THE REMAINING SHEET PILING SHALL BE A MINIMUM OF 12 IN BELOW THE FINISHED GRADE OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR HAS THE OPTION TO REMOVE AND DISPOSE THE TEMPORARY SOIL RETENTION SYSTEM. REMOVED TEMPORARY SOIL RETENTION SYSTEM SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
3. FOR TEMPORARY SOIL RETENTION SYSTEM 1 SEE STAGE CONSTRUCTION SHEET FOR STRUCTURE 016-1334.

FILE NAME = D:\60L72-sht-typical-MOT.dgn	USER NAME = rdonley	DESIGNED - LDR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SOIL RETENTION DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:100	DRAWN - LDR	REVISED -		SCALE: NTS	SHEET 146 OF 1045 SHEETS	STA.	TO STA.	351	2010-081-R	COOK	1045	146
#MODELNAME#	PLOT DATE = 10/22/2014	CHECKED -	REVISED -						CONTRACT NO. 60L72				
		DATE - 10/28/14	REVISED -						ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL GENERAL NOTES






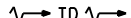













1. THE WORK DESCRIBED ON THESE DRAWINGS IS AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS ON DOWNSTREAM AREAS.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
4. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
5. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
6. ALL PERMANENT SEDIMENT BASINS, PERMANENT STORM WATER CONTROL MEASURES, AND RUNOFF CONTROL MEASURES REQUIRED TO KEEP OFF-SITE RUNOFF FROM FLOWING OVER THE CONSTRUCTION AREA WILL BE INSTALLED BEFORE CLEARING AND STRIPPING OF THE SITE PROCEEDS. PRIOR TO PROCEEDING WITH GENERAL EARTHWORK ON A PROJECT THE CONTRACTOR WILL OBTAIN APPROVAL OF HIS PROPOSED EARTHWORK AND STABILIZATION SCHEDULE.
7. A MAXIMUM OF 10 ACRES MAY BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.
 - (A) WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 10 ACRES OF GRADING AT A TIME. THE 10 ACRE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS AND STORAGE AREAS.
 - (B) VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:
 - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
 - THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE THE WORK ON TIME.
 - THE CONTRACTOR MUST COMPLY WITH ALL OTHER CONTRACT REQUIREMENTS.
8. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WITHIN 1 DAY WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 1/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME. TEMPORARY STABILIZATION MAY BE USED FOR AREAS THAT WILL BECOME DISTURBED AGAIN AFTER 14 DAYS. AREAS DIRECTLY TRIBUTARY TO SPRING CREEK SHALL BE SAME DAY STABILIZED TO ENSURE PROTECTION OF THE IMPAIRED WATERWAY.
9. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES AND IS TO HAVE TAKEN AN APPROVED EROSION AND SEDIMENT CONTROL COURSE. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 0.5 INCH, OR SNOW FALL EQUIVALENT. ADDITIONALL DURING WINTER MONTHS, ALL MEASURES SHALL BE CHECKED AFTER EACH SIGNIFICANT SNOWFALL.

10. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. PERIMETER BARRIER FENCE SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES ONE-THIRD OF THE BARRIER HEIGHT. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
11. SALVAGED TOPSOIL SHALL BE PLACED ON WELL DRAINED LAND AWAY FROM INTERMITTENT AND LIVE STREAMS OR WETLANDS WITH THE APPROPRIATE RUNOFF CONTROL AND SEDIMENT CONTROL MEASURES INSTALLED AROUND THE STORAGE SITE, AND STABILIZED IMMEDIATELY AFTER FINAL SHAPING OF THE PILE IN ACCORDANCE WITH MULCH, METHOD 2. THE CONTRACTOR WILL PROVIDE AN ADEQUATE QUANTITY OF PERIMETER EROSION BARRIER TO CONTROL THE PERIMETER OF THE STOCKPILE.
12. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN THE VICINITY OF THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.
13. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
14. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
15. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION PROVIDING THE FOLLOWING CONDITIONS ARE MET:
 - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
 - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION.
 - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
16. SEEDING USAGE (SEE LANDSCAPING PLANS)
 - CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.
 - CLASS 4 USED ON SPECIFIC EMBANKMENT SLOPES AND AT SPECIFIC PROPOSED DITCHES AS SHOWN ON LANDSCAPING PLANS.
 - CLASS 4B (MODIFIED) USED AT PROPOSED POND AS SHOWN ON LANDSCAPING PLANS.
 - CLASS 7 USED ON LONG TERM TEMPORARY SEEDING AND FOR WINTER SHUTDOWN IN PLACE OF TEMPORARY EROSION CONTROL SEEDING.

TEMPORARY EROSION CONTROL SEEDING : USED IN AREAS REQUIRING SHORT TERM TEMPORARY SEEDING DURING CONSTRUCTION.
17. IN AREAS WHERE A PERMANENT VEGETATIVE COVER IS PRACTICABLE AND INCLUDED IN THE CONTRACT DOCUMENTS, A SPECIAL EFFORT SHOULD BE MADE TO ESTABLISH A COVER AS SOON AS A DISTURBED AREA IS BROUGHT TO FINAL GRADE.
18. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

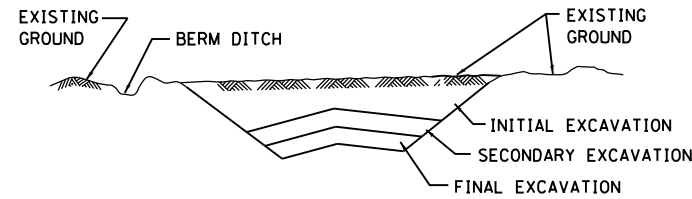
19. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW(BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EROSION AND SEDIMENT CONTROL LEGEND

-  SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE
-  PERIMETER EROSION BARRIER
-  TREE TRUNK PROTECTION
-  DITCH CHECK TEMPORARY
-  INLET FILTER
-  TEMPORARY DITCH
-  DITCH FLOW
-  DEWATERING BASIN
-  ROCK DITCH CHECK
-  SEDIMENT TRAP
-  EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  WOUS (IMPACTED)
-  WETLAND (IMPACTED)
-  TEMPORARY PAVEMENT (SEE SUGGESTED MAINTENANCE OF TRAFFIC PLANS)
-  FLOTATION BOOM
-  WORK ZONE
-  OVERLAND FLOW
-  "WETLAND - NO INTRUSION" SIGN, 6'x3'

FILE NAME = D:\60L72-shr-erosion-notes.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$MODELNAME\$	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -			351	2010-081-R	COOK	1045	147	
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -			CONTRACT NO. 60L72					
						ILLINOIS FED. AID PROJECT					

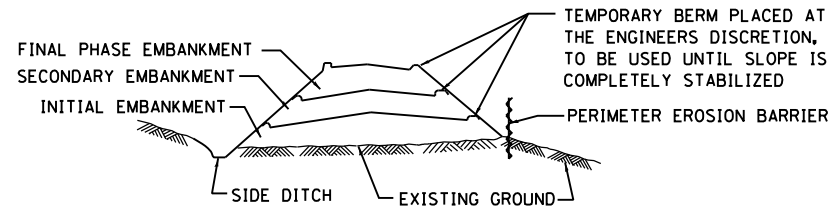
EXCAVATION PHASING PLAN-CUT SECTION



NOTES:

1. ALL CUT SLOPES SHALL BE EXCAVATED AND STABILIZED (PLACE TOPSOIL, PREPARE SEEDBED, APPLY SEED, PROTECT SLOPE WITH MULCH OR EROSION BLANKET) AS THE WORK PROGRESSES.
2. CONSTRUCTION SEQUENCE FOR EXCAVATION:
 - (A) EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SUITABLE EROSION CONTROLS FOR DITCHES.
 - (B) PERFORM INITIAL EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
 - (C) PERFORM SECONDARY EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING, OVERSEED INITIAL EXCAVATION AREA SLOPES, IF REQUIRED.
 - (D) PERFORM FINAL EXCAVATION, AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE. STABILIZE SURFACE DRAIN DITCHES. OVERSEED INITIAL AND SECONDARY SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.
3. IF PERMANENT SEEDING CANNOT BE PLACED DUE TO CONTRACT REQUIREMENTS REGARDING PLANTING SEASONS, THE CUT SLOPE IS TO HAVE TOPSOIL PLACED AND SEEDBED PREPARED PRIOR TO USING TEMPORARY EROSION CONTROL SEEDING WITH MULCH, METHOD 2 OR 4 OR OR TEMPORARY SEEDING WITH EROSION BLANKET.
4. ONCE THE EXCAVATION WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF SLOPE STABILIZATION MEASURES. ANY INTERRUPTIONS IN THE OPERATION 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATIONS OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SWPPP.

EMBANKMENT PHASING PLAN-FILL SECTION



NOTES:

1. THE EMBANKMENT WILL BE CONSTRUCTED IN LIFTS. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING THE NEXT LIFT.
2. UPON COMPLETION OF THE EMBANKMENT, TEMPORARY BERMS (EARTH) AND MAY BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF WHEN DIRECTED BY THE ENGINEER.
3. CONSTRUCTION SEQUENCE FOR EMBANKMENT
 - (A) EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
 - (B) PLACE INITIAL EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - (C) PLACE SECONDARY EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - (D) PLACE FINAL EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.
4. ONCE THE PLACEMENT OF FILL WITHIN A SPECIFIC AREA HAS BEGUN, THE OPERATION SHALL BE CONTINUOUS FROM STRIPPING THROUGH THE COMPLETION OF THE GRADING AND PLACEMENT OF PERMANENT VEGETATIVE PLAN. ANY INTERRUPTIONS IN THE OPERATION OF 14 DAYS OR MORE MUST BE APPROVED BY THE ENGINEER. ANY VIOLATION OF THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR ASSUMING THE RESPONSIBILITY OF PLACING TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SWPPP.

EROSION AND SEDIMENT CONTROL (ESC) STRATEGY

DISTURBED AREA: 57.6 ACRES
 RECEIVING WATERS: MARLEY AND SPRING CREEKS, UNNAMED TRIBUTARY TO MARLEY CREEK

1. ERECT PERIMETER EROSION BARRIER AS SHOWN ON THE PLANS.
2. ESTABLISH STABILIZED CONSTRUCTION ENTRANCES.
3. CLEAR AND GRUB, REMOVE EXISTING TREES AS NECESSARY.
4. INSTALL INLET FILTERS AND INLET & PIPE PROTECTION AS SHOWN ON THE PLANS.
5. INSTALL TEMPORARY DITCH CHECKS AT 18" VERTICAL INTERVALS UNLESS OTHERWISE SPECIFIED.
6. INSTALL SEDIMENT TRAPS.
7. STABILIZE DISTURBED AREAS WITH MULCH METHOD 2 OR EROSION CONTROL BLANKET AND TEMPORARY EROSION CONTROL SEEDING AS SHOWN ON THE PLANS.
8. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
9. WHEN FINAL STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES.

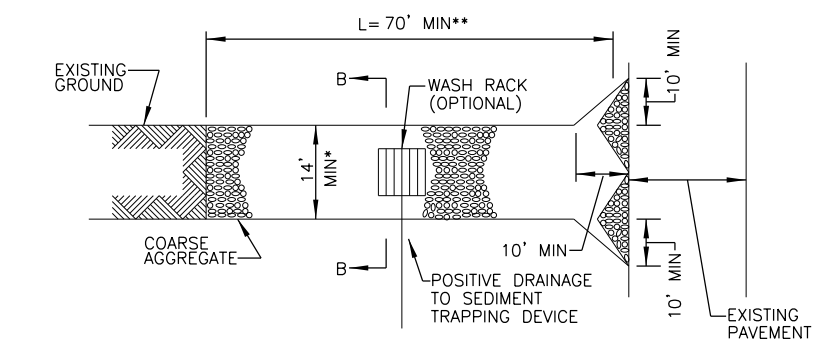
FILE NAME = D:\60L72-sht-erosion-notes.dgn	USER NAME = rdenley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JM	REVISED -					351	2010-081-R	COOK	1045	148
\$MODELNAME\$	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. - TO STA. -			CONTRACT NO. 60L72				
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							

EROSION AND SEDIMENT CONTROL SCHEDULE

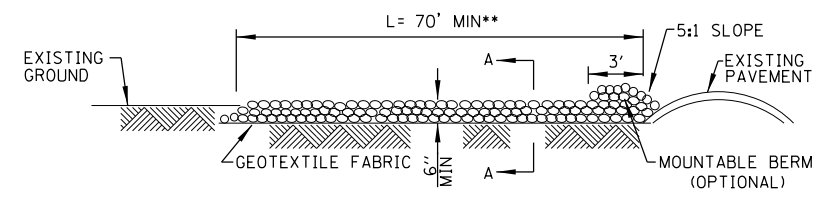
SCHEDULE OF EROSION CONTROL					
STATION	28000200 EARTH EXCAVATION FOR EROSION CONTROL (CU YD)	28000305 TEMPORARY DITCH CHECKS (FOOT)	28000315 AGGREGATE DITCH CHECK (TON)	28000400 PERIMETER EROSION BARRIER (FOOT)	28000510 INLET FILTERS (EACH)
PRESTAGE					
159TH STREET					
281+00 TO 290+00	0	900	0	479	0
290+00 TO 305+00	37	100	0	1309	0
305+00 TO 320+00	0	734	0	309	3
320+00 TO 335+00	0	100	0	143	0
335+00 TO 350+00	0	100	0	0	9
350+00 TO 365+00	0	100	0	202	7
365+00 TO 380+00	0	528	0	191	0
380+00 TO 395+00		104	0	0	0
395+00 TO 410+00	0	693	0	0	0
410+00 TO 415+06.01	0	0	0	0	1
WOLF ROAD					
4+87.37 TO 18+00.00	0	0	15	0	2
18+00.00 TO 32+85.76	0	0	0	0	0
108TH STREET					
8+18.00 TO 22+00.00	0	0	0	296	0
22+00.00 TO 28+70.00	0	0	0	0	9
104TH STREET					
17+59.00 TO 20+00.00	0	0	0	0	0
STAGE 1					
159TH STREET					
281+00 TO 290+00	0	0	0	803	12
290+00 TO 305+00	735	368	0	1232	17
305+00 TO 320+00	0	85	0	1166	14
320+00 TO 335+00	0	0	15	0	38
335+00 TO 350+00	0	100	15	1479	34
350+00 TO 365+00	0	250	0	556	31
365+00 TO 380+00	0	0	0	1812	12
380+00 TO 395+00	0	0	0	1306	3
395+00 TO 410+00	0	194	0	1159	11
410+00 TO 415+06.01	0	53	0	0	0
WOLF ROAD					
4+87.37 TO 18+00.00	0	984	30	1064	12
18+00.00 TO 32+85.76	0	472	45	0	26
108TH STREET					
8+18.00 TO 22+00.00	0	0	15	935	7
22+00.00 TO 28+70.00	0	0	0	0	0
104TH STREET					
17+59.00 TO 20+00.00	0	0	0	276	0

SCHEDULE OF EROSION CONTROL (CONT.)					
STATION	28000200 EARTH EXCAVATION FOR EROSION CONTROL (CU YD)	28000305 TEMPORARY DITCH CHECKS (FOOT)	28000315 AGGREGATE DITCH CHECK (TON)	28000400 PERIMETER EROSION BARRIER (FOOT)	28000510 INLET FILTERS (EACH)
STAGE 2					
159TH STREET					
281+00 TO 290+00	0	236	0	479	14
290+00 TO 305+00	0	0	0	1595	17
305+00 TO 320+00	0	0	0	302	15
320+00 TO 335+00	0	0	0	143	4
335+00 TO 350+00	0	0	0	0	0
350+00 TO 365+00	0	304	0	168	3
365+00 TO 380+00	0	0	0	912	0
380+00 TO 395+00	0	0	0	501	4
395+00 TO 410+00	0	0	0	1471	7
410+00 TO 415+06.01	0	0	0	544	0
WOLF ROAD					
4+87.37 TO 18+00.00	0	0	15	0	0
18+00.00 TO 32+85.76	0	0	0	0	0
108TH STREET					
8+18.00 TO 22+00.00	0	82	15	0	0
22+00.00 TO 28+70.00	0	0	0	0	0
104TH STREET					
17+59.00 TO 20+00.00	0	0	0	0	0
STAGE 3					
159TH STREET					
281+00 TO 290+00	0	0	0	0	0
290+00 TO 305+00	0	0	0	0	1
305+00 TO 320+00	0	0	0	0	1
320+00 TO 335+00	0	0	0	0	0
335+00 TO 350+00	0	0	0	0	0
350+00 TO 365+00	0	0	0	0	0
365+00 TO 380+00	0	0	0	0	0
380+00 TO 395+00	0	0	0	0	0
395+00 TO 410+00	0	0	0	0	0
410+00 TO 415+06.01	0	0	0	0	0
WOLF ROAD					
4+87.37 TO 18+00.00	0	0	0	0	0
18+00.00 TO 32+85.76	0	0	0	0	0
108TH STREET					
8+18.00 TO 22+00.00	0	0	0	0	0
22+00.00 TO 28+70.00	0	0	0	0	0
104TH STREET					
17+59.00 TO 20+00.00	0	0	0	0	0
BOX CULVERTS					
SPRING CREEK (016-1335)					
MARLEY CREEK (016-1334)					
TOTAL	772	6,487	165	20,832	314

NOTE:
ALSO SEE LANDSCAPING AND TEMPORARY STABILIZATION SCHEDULE IN SCHEDULE OF QUANTITIES SHEETS.

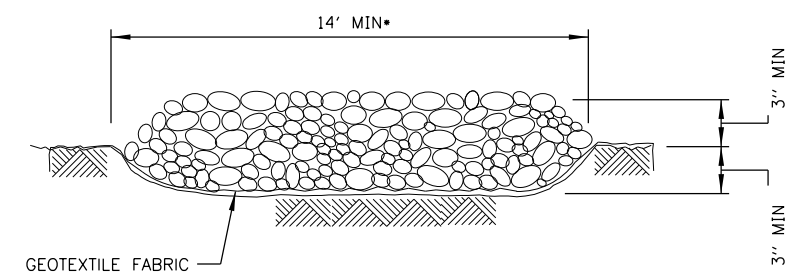


PLAN VIEW

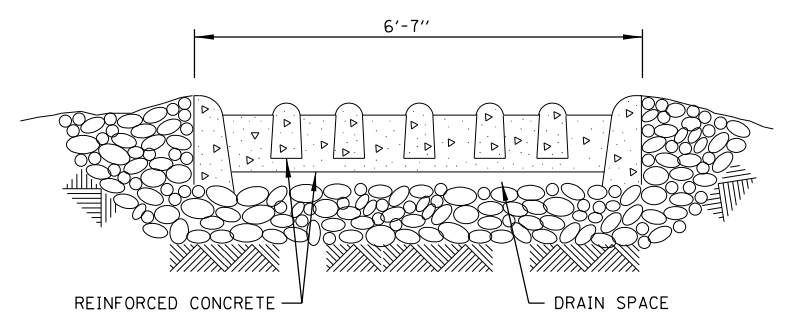


SIDE ELEVATION

- 24' MIN FOR TWO WAY TRAFFIC. MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION
- UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



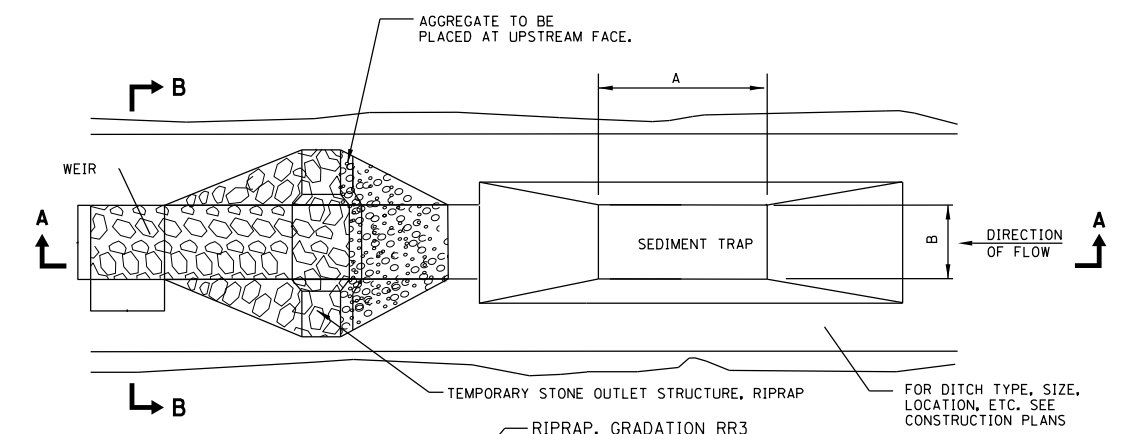
SECTION A-A



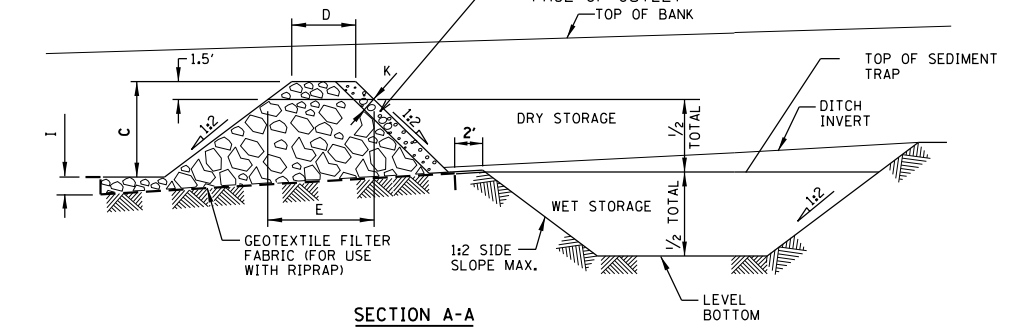
SECTION B-B

STABILIZED CONSTRUCTION ENTRANCE

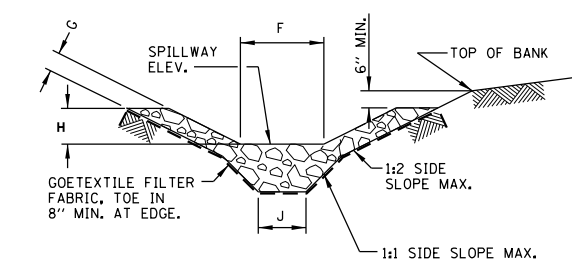
- NOTES:
1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF ARTICLE 1080.02: "GEOTEXTILE FABRIC FOR GROUND STABILIZATION" AND SHALL BE PLACED ACCORDING TO ARTICLE 210.03: "INSTALLATION REQUIREMENTS."
 2. THE COARSE AGGREGATE SHALL MEET EITHER IDOT COARSE AGGREGATE GRADATION CA-2 OR CA-4 (UNLESS OTHERWISE DIRECTED BY THE ENGINEER) AND BE PLACED ACCORDING TO ARTICLE 402.10: "FOR TEMPORARY ACCESS."
 3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
 4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 5. EXISTING DITCH DRAINAGE TO BE MAINTAINED.
 6. THE CONTRACTOR SHALL PLACE ENTRANCES AT LOCATIONS AS APPROVED BY THE ENGINEER.
 7. THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE ENTRANCES WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



PLAN



SECTION A-A



SECTION B-B

- NOTES:
1. USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
 2. THE SEDIMENT TRAP SHALL BE REPLACED DUE TO WASHOUT, DAMAGE FROM CONSTRUCTION TRAFFIC, OR SILT ACCUMULATION. THE SILT SHALL BE REMOVED WHEN THE TRAP IS 50% FULL.
- THIS COST TO PERFORM THIS WORK SHALL BE PAID FOR AS:
3. - EARTH EXCAVATION FOR EROSION CONTROL
- AGGREGATE (EROSION CONTROL)
(FILTER FABRIC IS INCLUDED IN THE COST OF AGGREGATE (EROSION CONTROL))
- UPON COMPLETION OF CONSTRUCTION, ESTABLISHMENT OF FINAL STABILIZATION, AND WHEN DIRECTED BY THE ENGINEER, THE SEDIMENT TRAP SHALL BE REMOVED AND THE DITCH LINE RE-ESTABLISHED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. THE COST TO COMPLETE THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS LISTED ABOVE.
- DIMENSION NOTES:
- A. ALL DIMENSIONS ARE BASED UPON AN AVERAGE DEPTH OF 30" AND PROVIDING, AS A MINIMUM, 3,600 CUBIC FEET OF STORAGE PER ACRE OF RUNOFF.
 - B. L AND W ARE MEASURED ALONG THE BOTTOM OF THE TRAP.
 - C. WHENEVER POSSIBLE, THE MAXIMUM AVERAGE DEPTH OF THE TRAP WILL BE 30".
 - D. THE MAXIMUM DRAINAGE AREA (INCLUDING OFF-SITE AREA) ALLOWED PER TRAP IS 5 ACRES.

NOTE:
THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURE SHOWN AND DESIGN VALUES ARE ON THE EROSION CONTROL PLAN SHEETS AND THE FOLLOWING DETAIL SHEET.

STONE OUTLET STRUCTURE
SEDIMENT TRAP

FILE NAME = D160L72-sht-erosion-notes.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -
		DRAWN - JM	REVISED -
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -
#MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

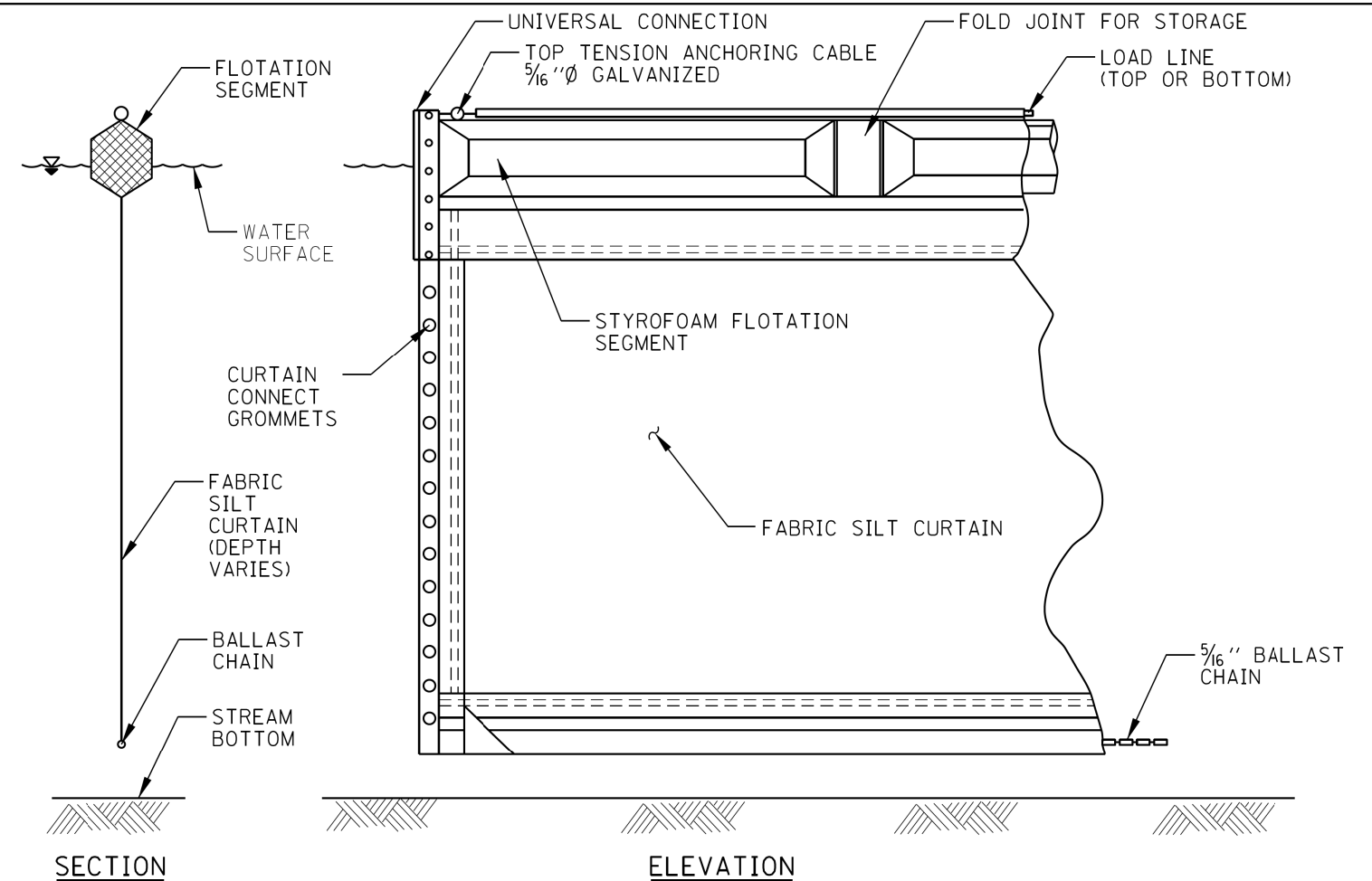
EROSION AND SEDIMENT CONTROL DETAILS			
SCALE: N.T.S.	SHEET 2 OF 3 SHEETS	STA. -	TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	150
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				

TEMPORARY SEDIMENT TRAP TABLE 303+65 LT		
DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	0.18
SEDIMENT TRAP STORAGE CAPACITY	V (CU. YD.)	25
WET DETENTION STORAGE	1/2V (CU. YD.)	12.5
DRY DETENTION STORAGE	1/2V (CU. YD.)	12.5
SEDIMENT TRAP LENGTH	A (FEET)	42.0
SEDIMENT TRAP WIDTH	B (FEET)	4.0
STONE OUTLET STRUCTURE HEIGHT	C (FEET)	2.00
STONE OUTLET STRUCTURE TOP WIDTH	D (FEET)	5.0
WEIR LENGTH	E (FEET)	6.0
WEIR TOP WIDTH	F (FEET)	4.0
WEIR SIDE SLOPE THICKNESS	G (FEET)	1.75
WEIR SLOPE HEIGHT	H (FEET)	1.0
WEIR DEPTH	I (FEET)	0.5
WEIR BASE WIDTH	J (FEET)	3.0
RIPRAP	GRADATION	RR-4
AGGREGATE	GRADATION	CA-2
STONE AGGREGATE THICKNESS	K (FEET)	1.0

TEMPORARY SEDIMENT TRAP TABLE 304+78 RT		
DESIGN ELEMENTS		VALUES
DRAINAGE AREA	X (ACRES)	1.64
SEDIMENT TRAP STORAGE CAPACITY	V (CU. YD.)	219
WET DETENTION STORAGE	1/2V (CU. YD.)	109.5
DRY DETENTION STORAGE	1/2V (CU. YD.)	109.5
SEDIMENT TRAP LENGTH	A (FEET)	96.0
SEDIMENT TRAP WIDTH	B (FEET)	15.0
STONE OUTLET STRUCTURE HEIGHT	C (FEET)	2.00
STONE OUTLET STRUCTURE TOP WIDTH	D (FEET)	5.0
WEIR LENGTH	E (FEET)	9.0
WEIR TOP WIDTH	F (FEET)	6.0
WEIR SIDE SLOPE THICKNESS	G (FEET)	1.75
WEIR SLOPE HEIGHT	H (FEET)	1.0
WEIR DEPTH	I (FEET)	0.5
WEIR BASE WIDTH	J (FEET)	3.0
RIPRAP	GRADATION	RR-4
AGGREGATE	GRADATION	CA-2
STONE AGGREGATE THICKNESS	K (FEET)	1.0

STONE OUTLET STRUCTURE
SEDIMENT TRAP
(DIMENSIONS)



NOTES:

1. FLOTATION BOOM FOR USE IN MOVING WATER SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. BOOMS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE BARRIER WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE.
4. DESIGN OF BOOM AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF BOOM SHALL REACH BOTTOM OF WATERWAY USING ONE VERTICAL SECTION AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE BOOM AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.
6. CONSTRUCTION DEBRIS/MATERIALS SHALL BE REMOVED IMMEDIATELY TO PREVENT DAMAGE TO THE CURTAIN AND ENTRY INTO THE WATERWAY.
7. FLOTATION BOOMS TO BE USED TO CONTROL TURBIDITY AND DEBRIS WHEN WORKING IN WATERWAYS.
8. THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE FLOTATION BOOM WILL NOT BE PAID FOR SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

FLOTATION BOOM

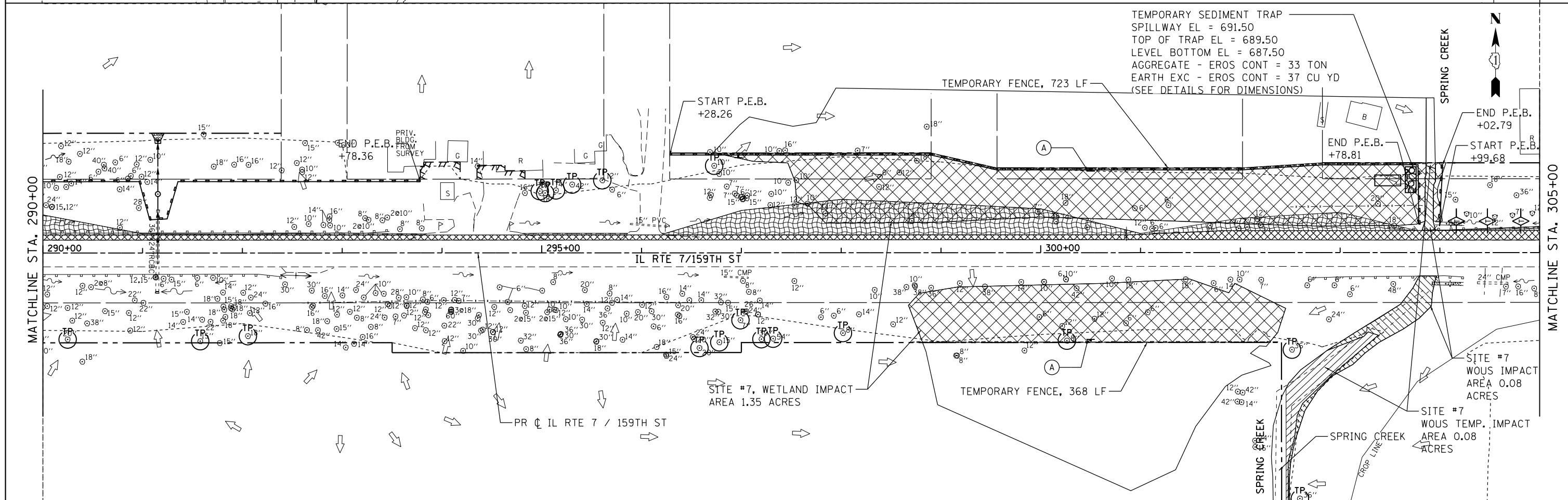
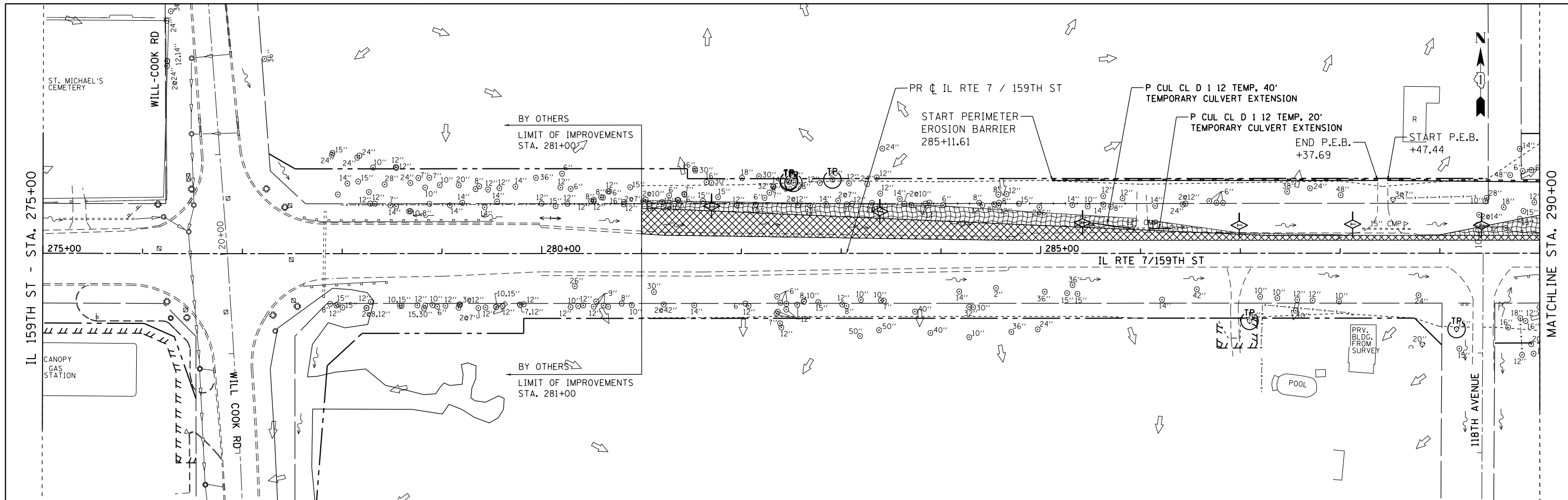
FILE NAME =	USER NAME = rdonley	DESIGNED - JM	REVISED -
D:\60L72-sht-erosion-notes.dgn		DRAWN - JM	REVISED -
\$MODELNAME\$	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. - TO STA. -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	151
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L72	



FILE NAME = D:\60L72-sht-erosion.dgn
 #MODELNAME#

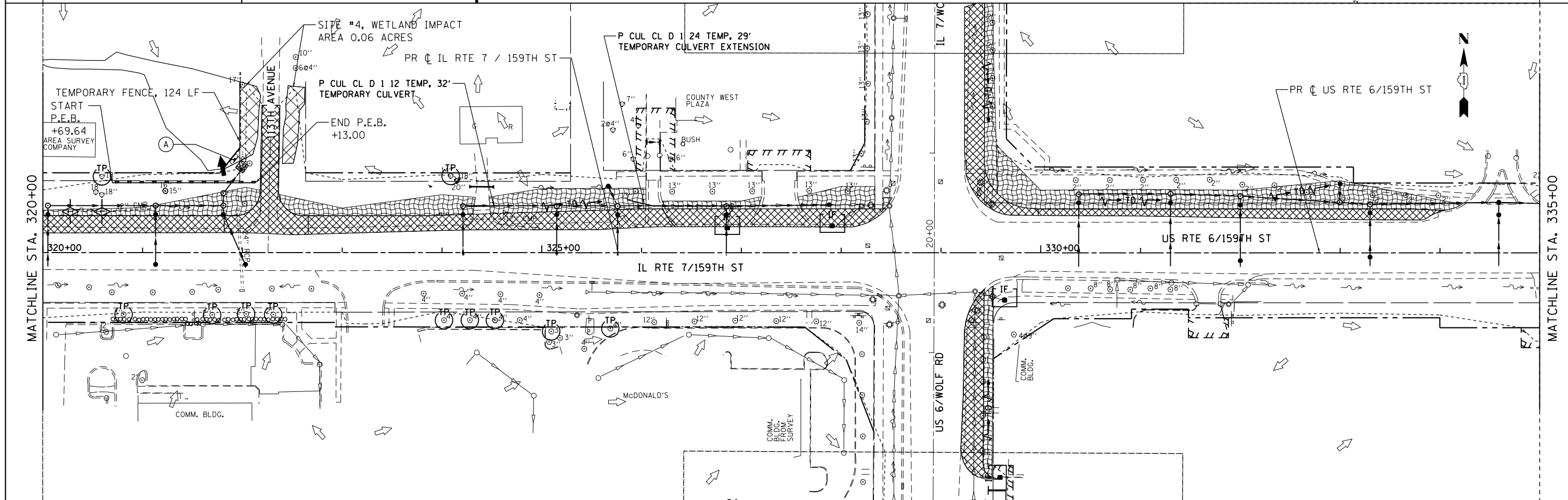
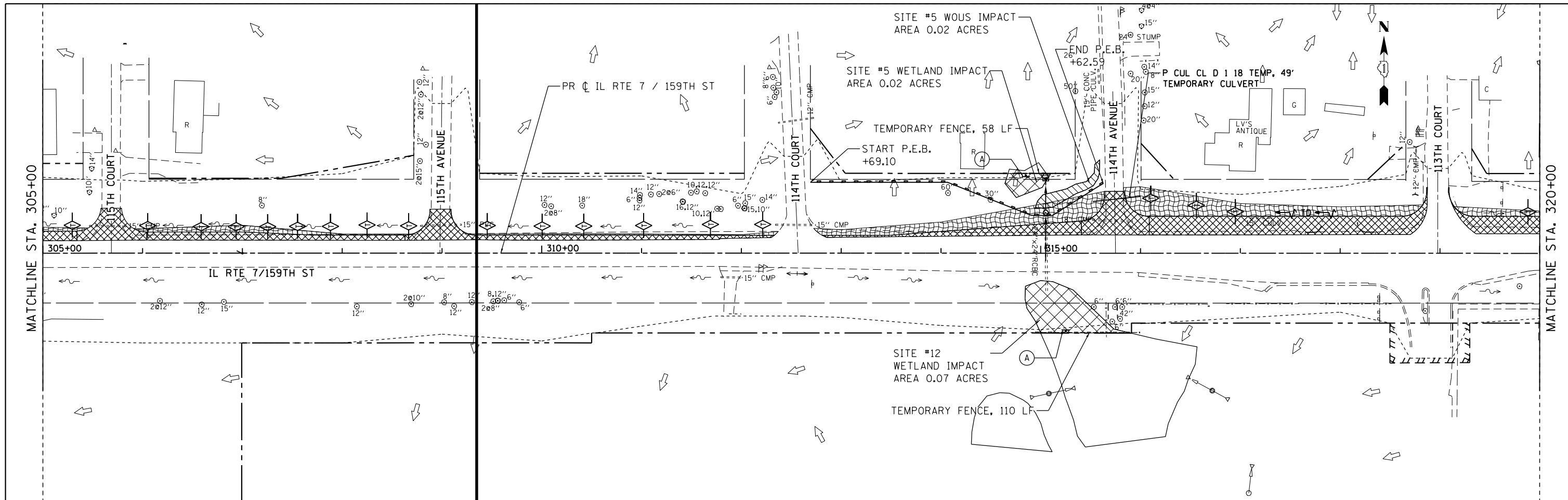
USER NAME = jwmiller	DESIGNED - JM	REVISED -
PLOT SCALE = 1:100	DRAWN - JM	REVISED -
PLOT DATE = 10/24/2014	CHECKED - JWM	REVISED -
	DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 PRE-STAGE 1**

F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 152
SCALE: 1"=50'			SHEET 1 OF 32 SHEETS STA. 281+00.00 TO STA. 305+00.00	
			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 60L72



FILE NAME = D:\60L72-sht-erosion\00.dgn
 #MODELNAME#

USER NAME = jwmiller
 PLOT SCALE = 1:100
 PLOT DATE = 10/24/2014

DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

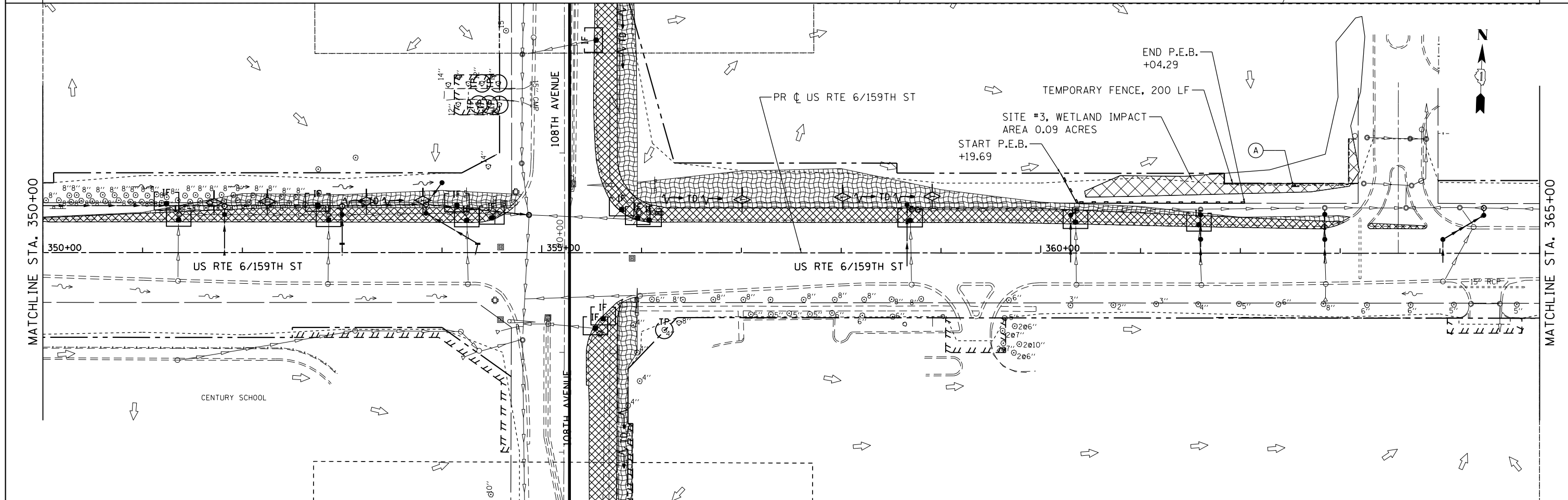
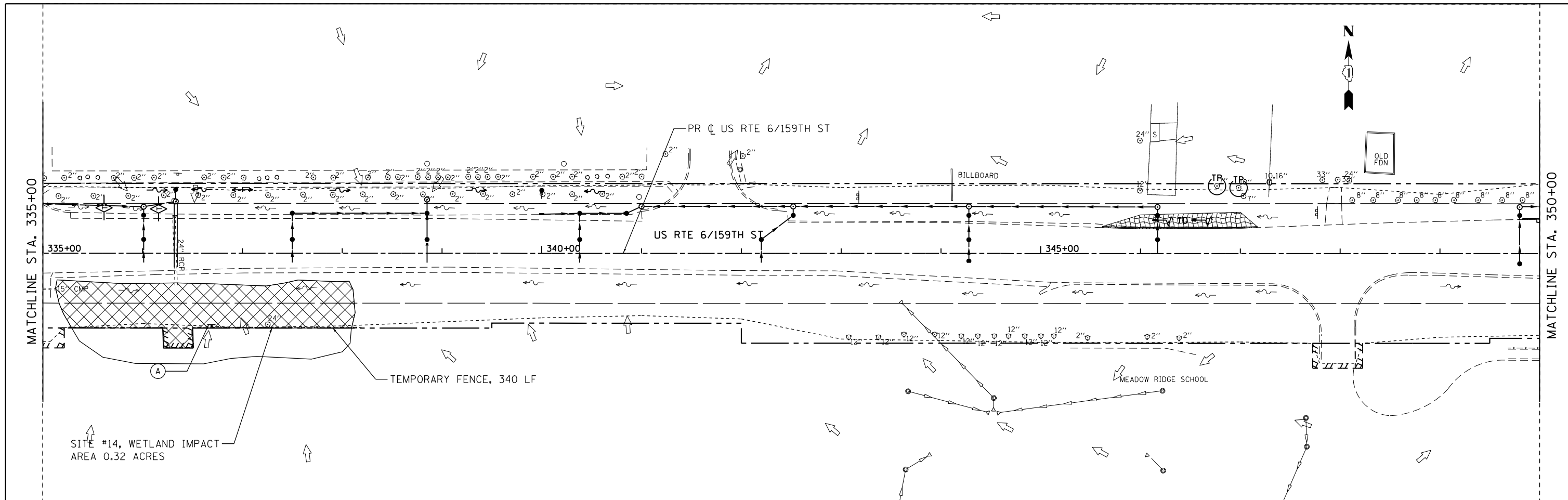
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 PRE-STAGE 1**

SCALE: 1"=50' SHEET 2 OF 32 SHEETS STA. 305+00.00 TO STA. 335+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	153
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60L72-sht-erosion.dgn
 #MODELNAME#

USER NAME = jwmiller
 PLOT SCALE = 1:100
 PLOT DATE = 10/24/2014

DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

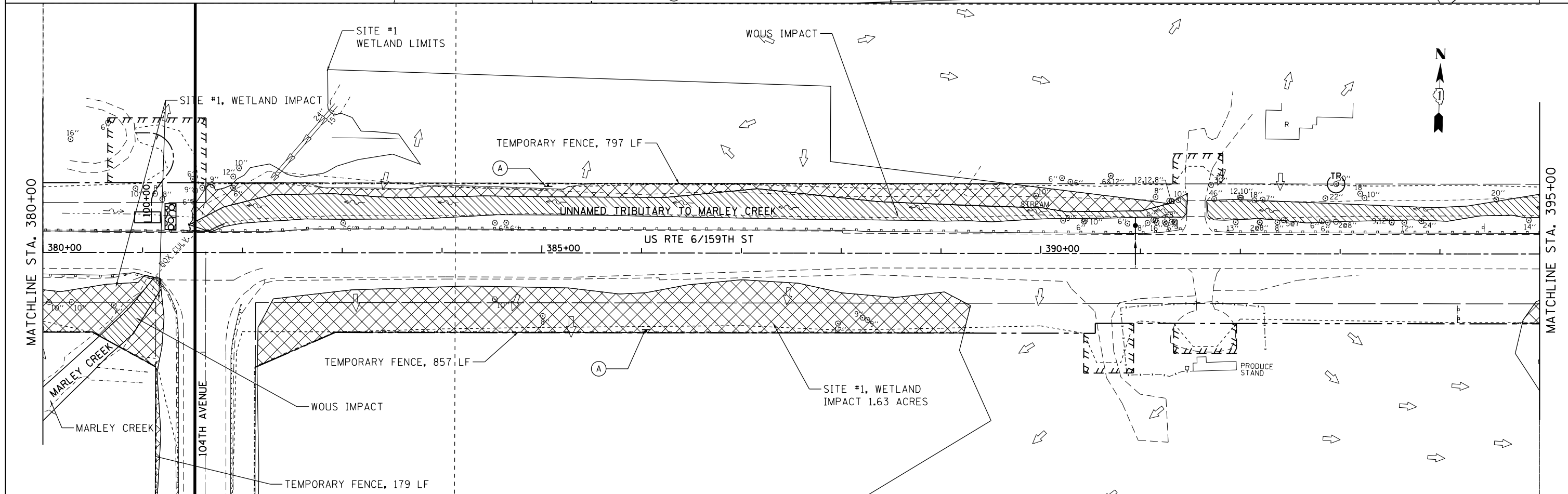
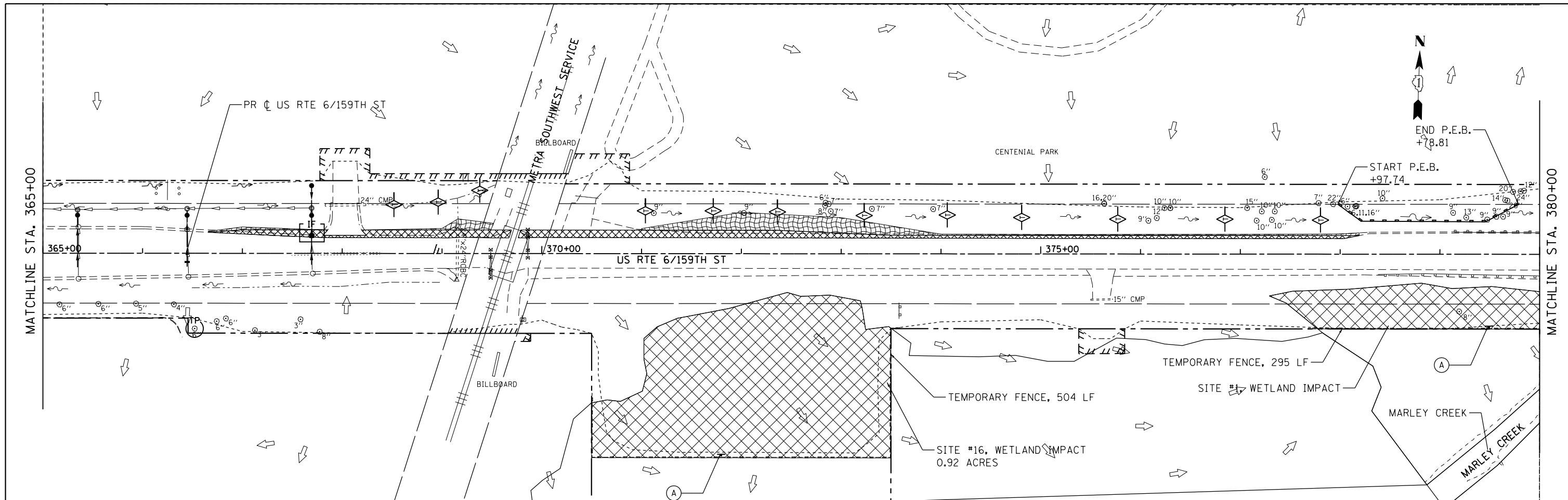
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

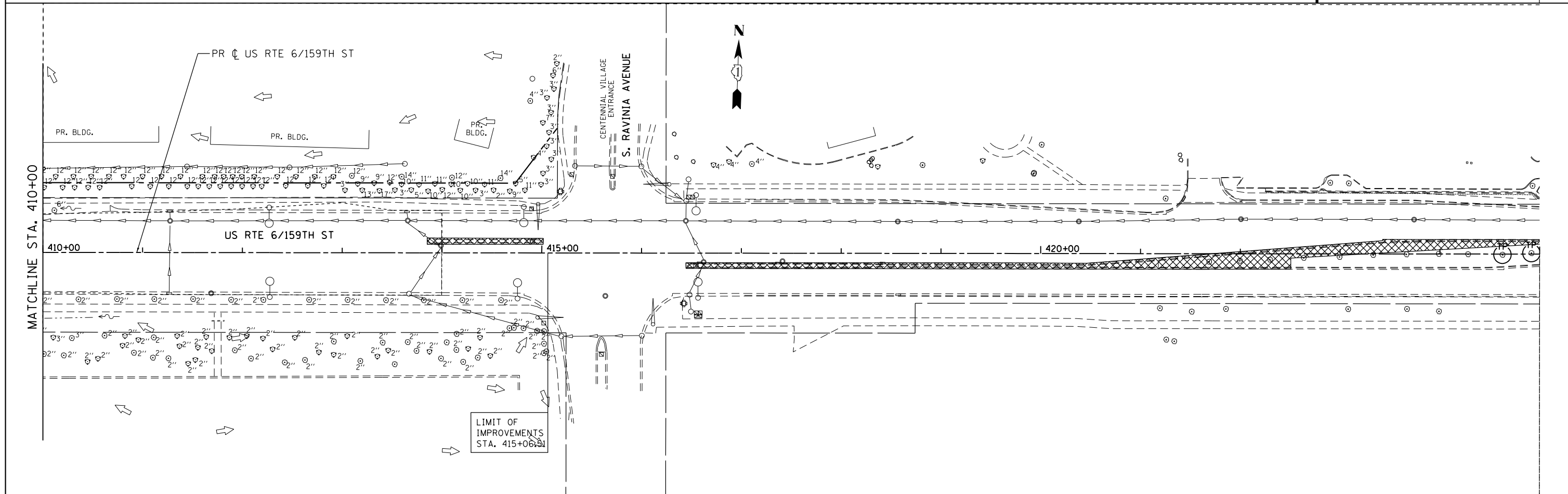
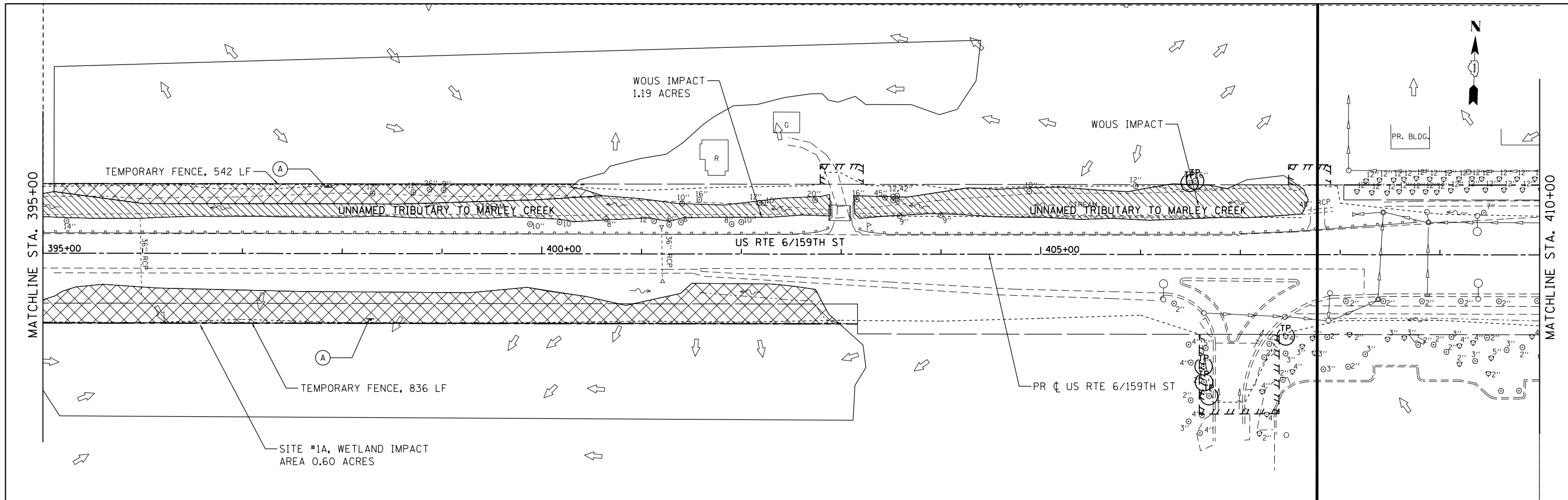
**EROSION AND SEDIMENT CONTROL PLAN
 PRE-STAGE 1**

SCALE: 1"=50' SHEET 3 OF 32 SHEETS STA. 335+00.00 TO STA. 365+00.00

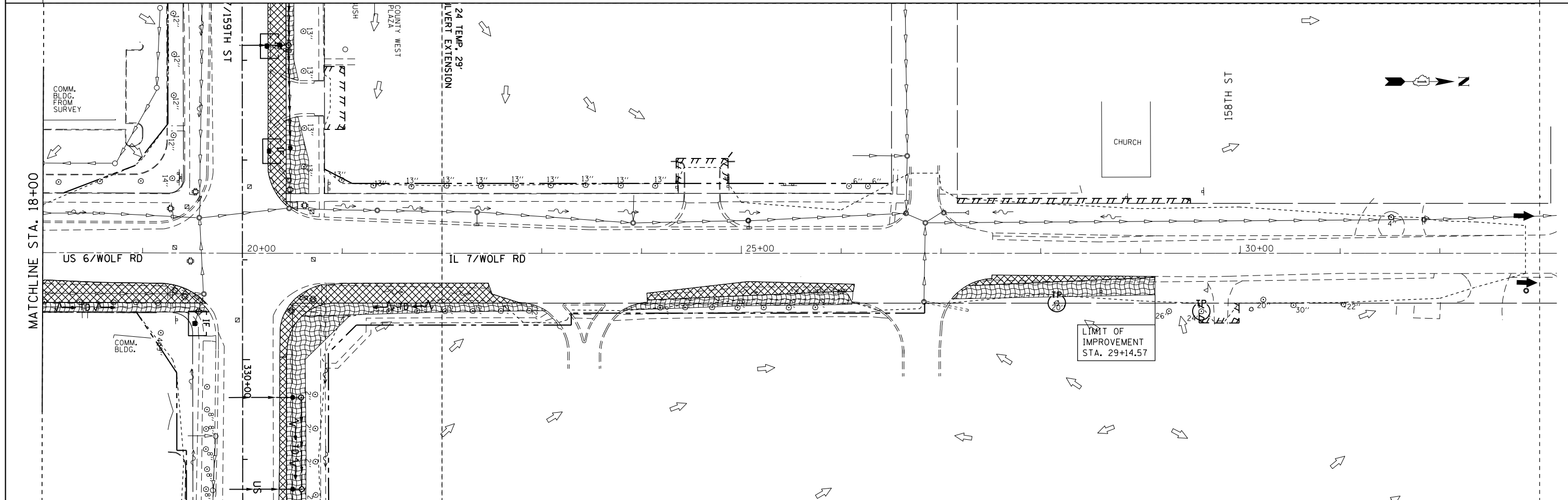
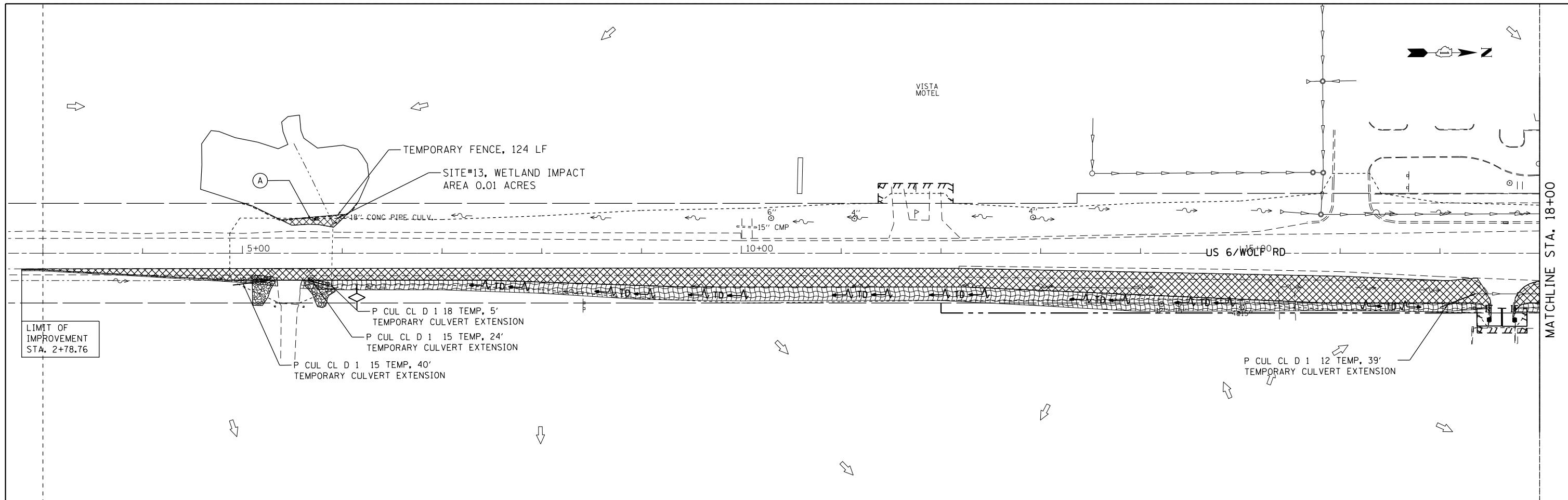
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	154
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60L72-sht-erosion\00.dgn	USER NAME = jwMiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN PRE-STAGE 1			F.A.P. R.E. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 155
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					SCALE: 1"=50'	SHEET 4 OF 32 SHEETS	STA. 365+00.00 TO STA. 395+00.00	CONTRACT NO. 60L72	
#MODELNAME#	PLOT DATE = 10/24/2014	DATE = 10/28/14	REVISED -									



FILE NAME = D160L72-sht-erosion00.dgn	USER NAME = jwmiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN PRE-STAGE 1			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	156
#MODELNAME#	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50' SHEET 5 OF 32 SHEETS STA. 395+00.00 TO STA. 415+06.51			CONTRACT NO. 60L72 ILLINOIS FED. AID PROJECT					



FILE NAME = D:\60L72-sht-erosion\00.dgn
 #MODELNAME#

USER NAME = jmillier
 PLOT SCALE = 1:100
 PLOT DATE = 10/24/2014

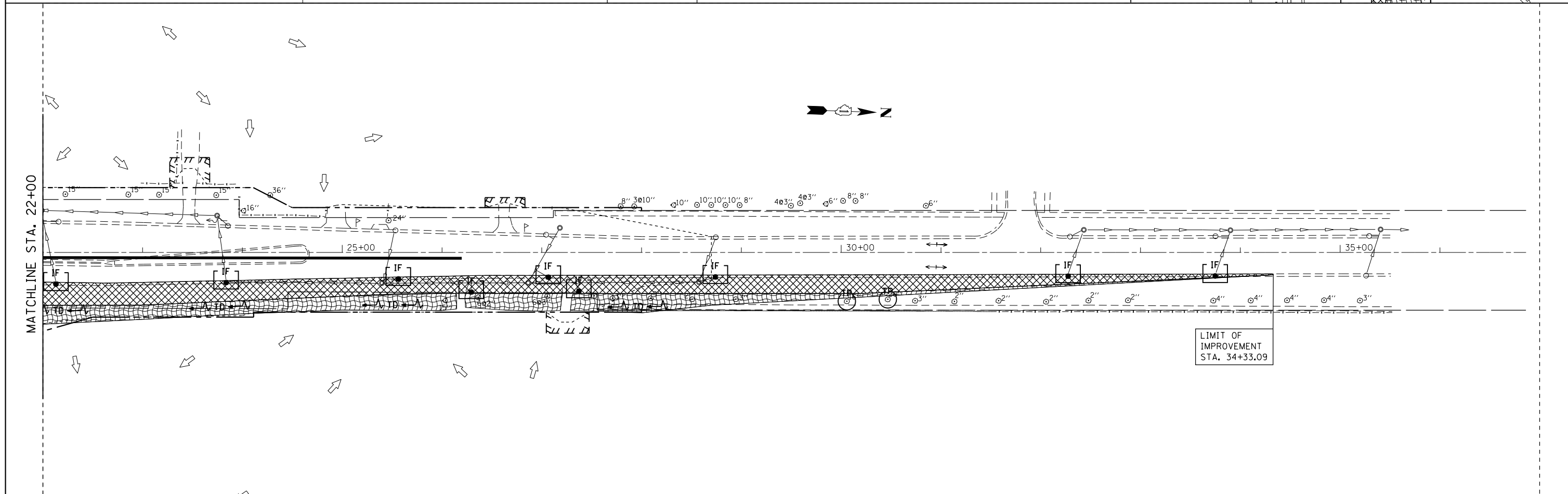
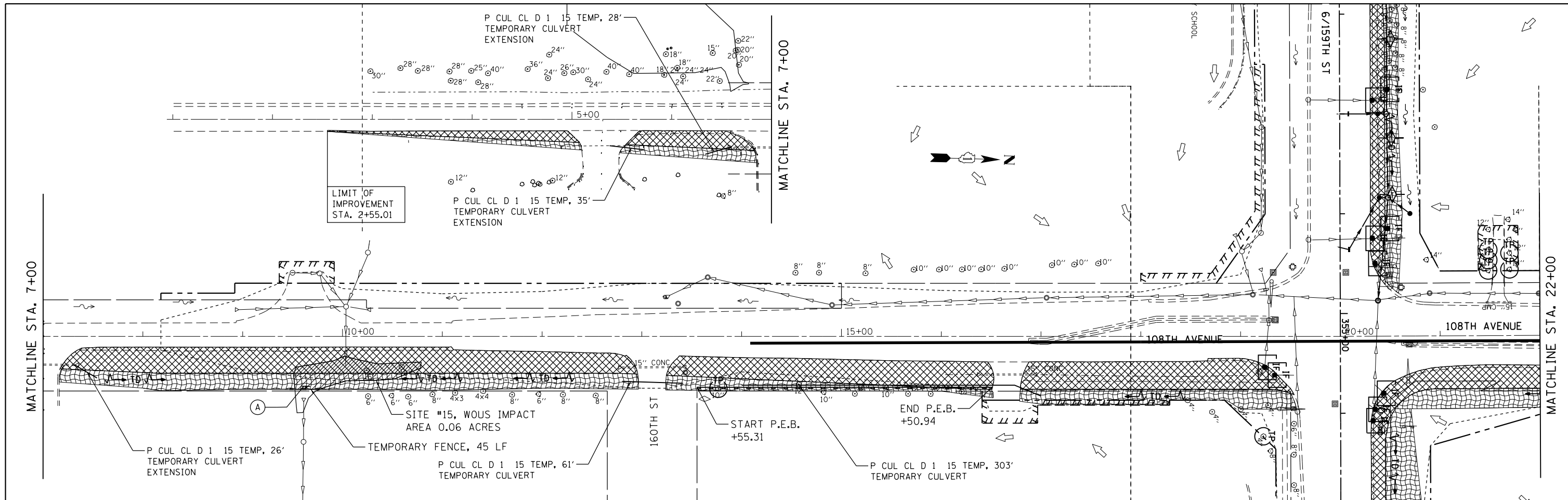
DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

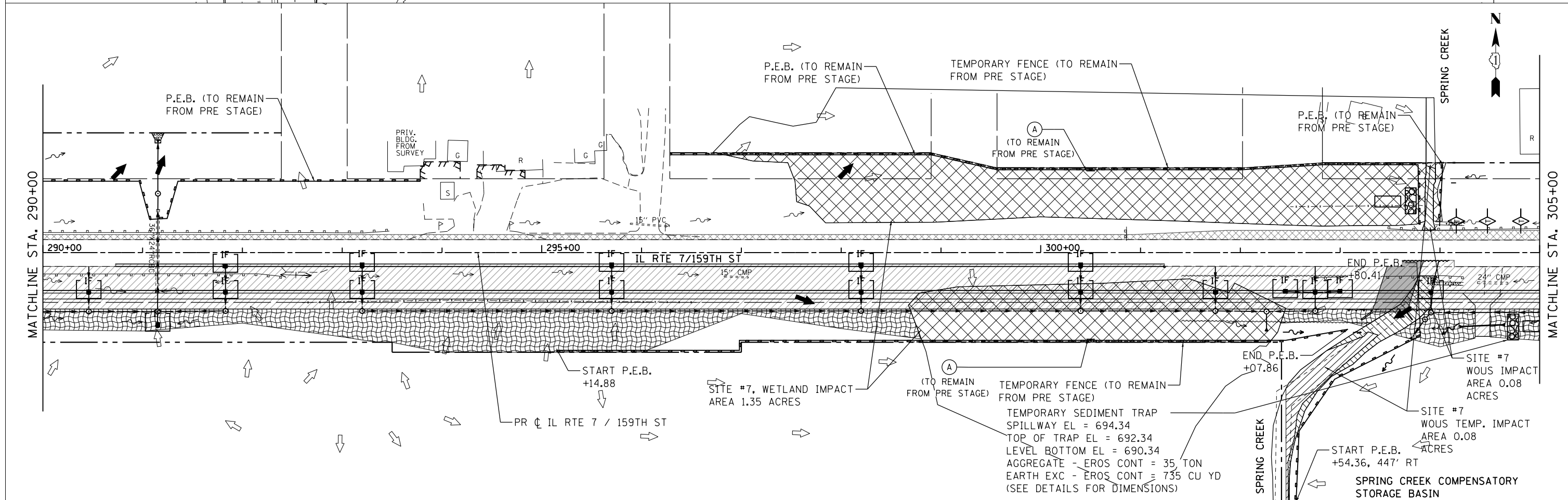
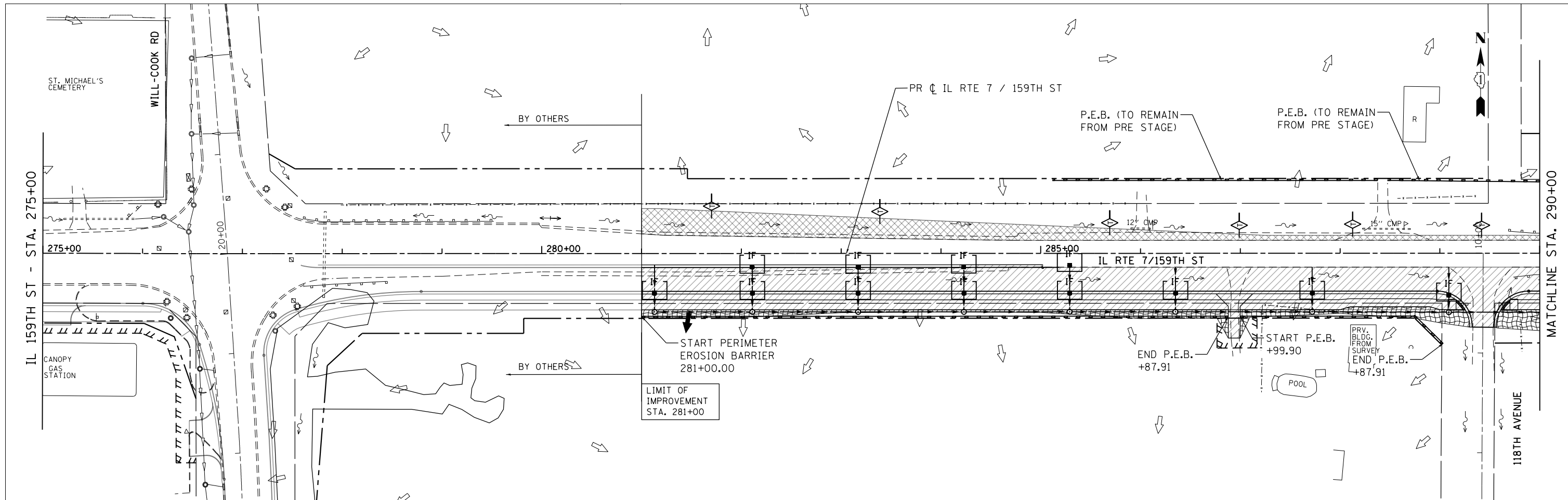
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 PRE-STAGE 1**
 SCALE: 1"=50' SHEET 6 OF 32 SHEETS STA. 2+78.76 TO STA. 29+14.57

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	157
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



FILE NAME = D160L72-sht-erosion00.dgn	USER NAME = jwmiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN PRE-STAGE 1			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	158
*MODELNAME#	PLOT DATE = 10/24/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50'			SHEET 7 OF 32 SHEETS		STA. 2+55.01 TO STA. 34+33.09		CONTRACT NO. 60L72	
											ILLINOIS FED. AID PROJECT	



FILE NAME = D:\60L72-sht-erosion\01.dgn
 #MODELNAME#

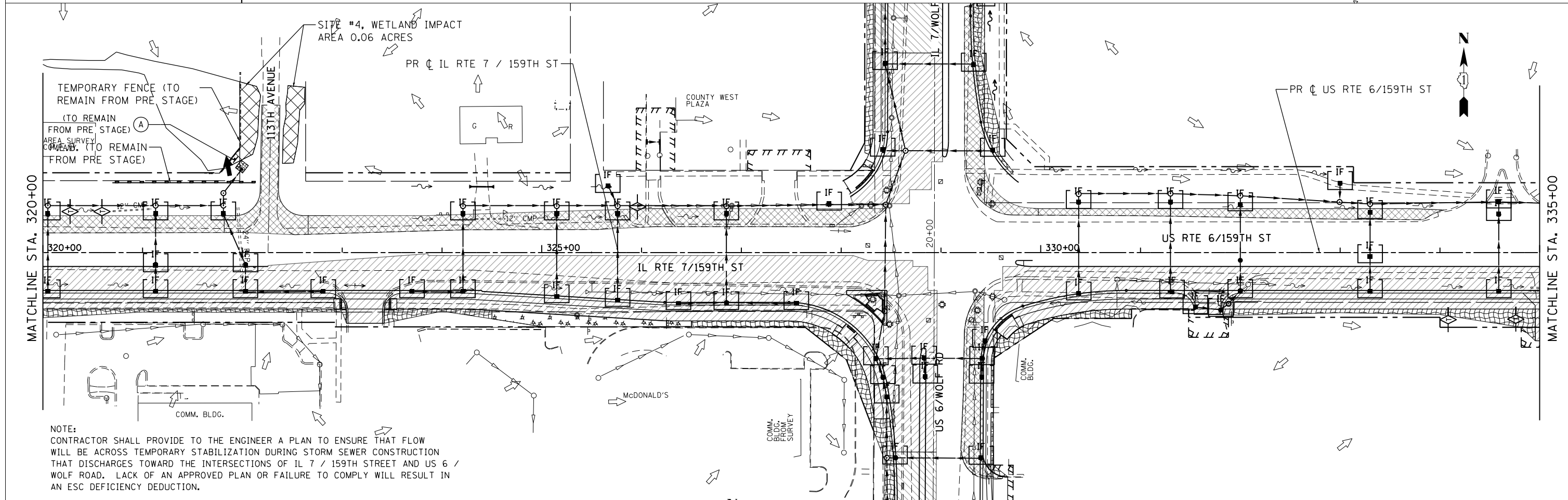
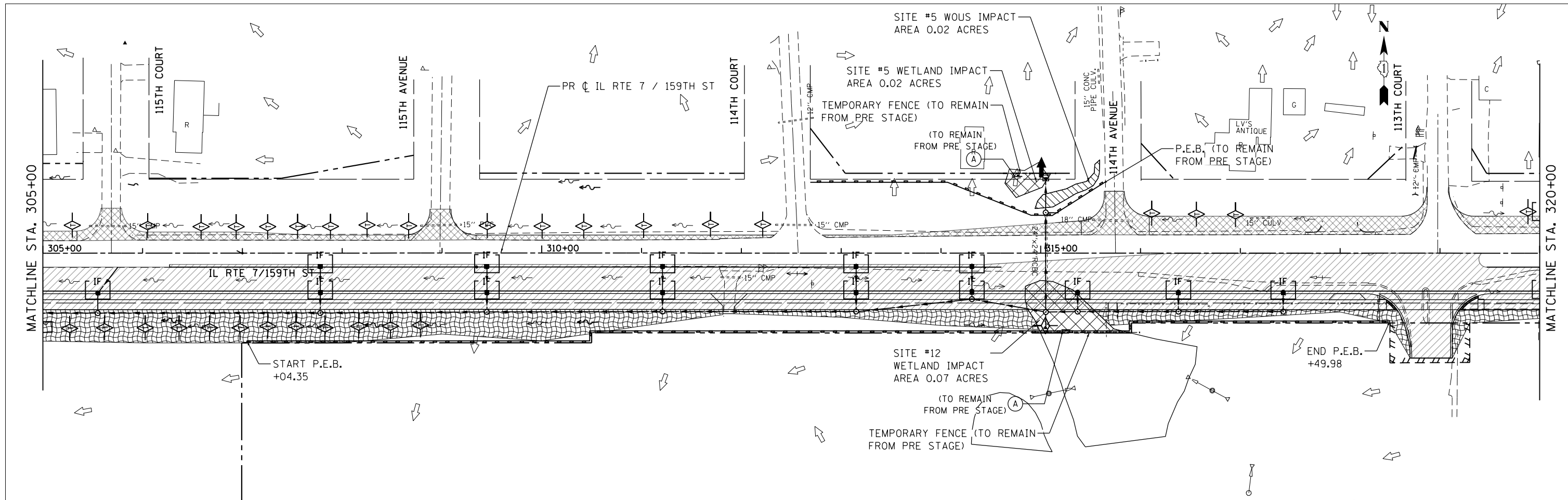
USER NAME = jwmiller	DESIGNED - JM	REVISED -
PLOT SCALE = 1:100	DRAWN - JM	REVISED -
PLOT DATE = 10/23/2014	CHECKED - JWM	REVISED -
	DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 1**

SCALE: 1"=50' SHEET 9 OF 32 SHEETS STA. 281+00.00 TO STA. 305+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	159
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60L72-sht-erosion\01.dgn
 #MODELNAME#

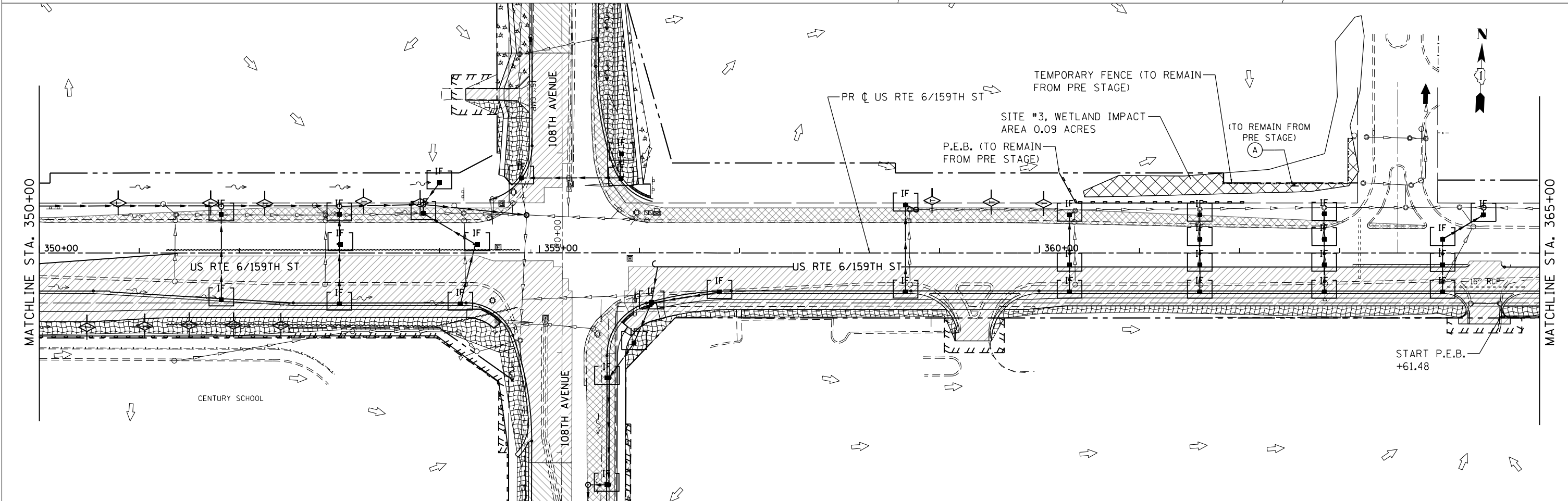
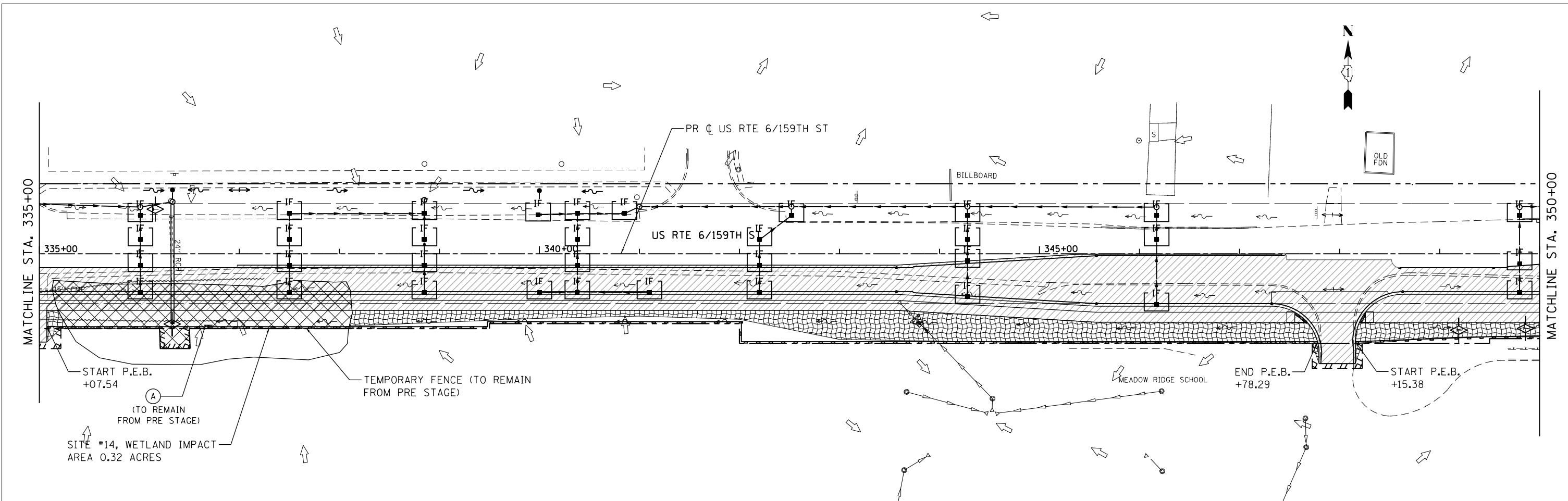
USER NAME = jwmiller	DESIGNED - JM	REVISED -
PLOT SCALE = 1:100	DRAWN - JM	REVISED -
PLOT DATE = 10/23/2014	CHECKED - JWM	REVISED -
	DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 1**

F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 160
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 10 OF 32 SHEETS STA. 305+00.00 TO STA. 335+00.00



FILE NAME = D:\60L72-sht-erosion\01.dgn
 #MODELNAME#

USER NAME = jwmiller
 PLOT SCALE = 1:100
 PLOT DATE = 10/23/2014

DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

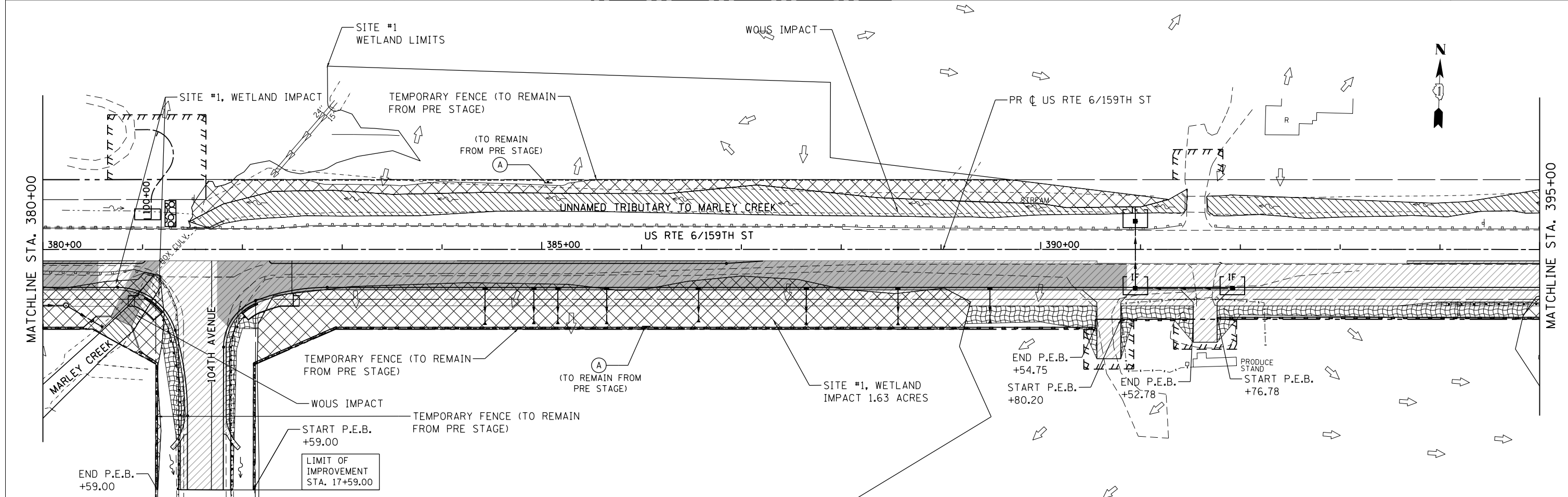
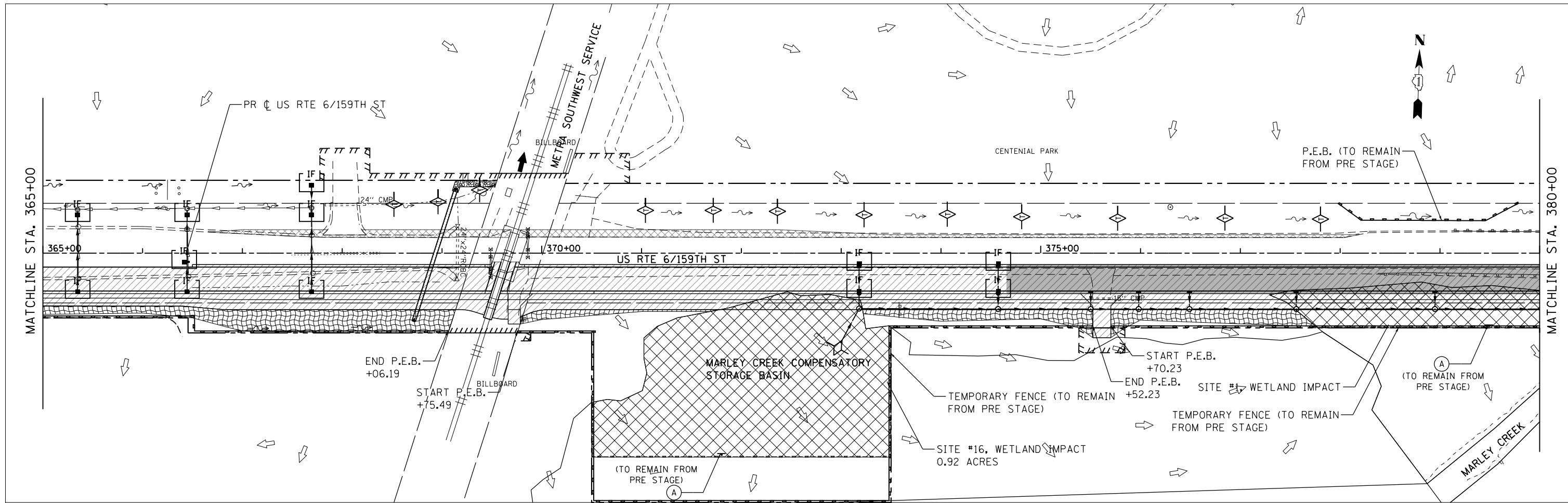
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 1**

SCALE: 1"=50' SHEET 11 OF 32 SHEETS STA. 335+00.00 TO STA. 365+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	161
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60L72-sht-erosion\01.dgn
 #MODELNAME#

USER NAME = jwMiller
 PLOT SCALE = 1:100
 PLOT DATE = 10/23/2014

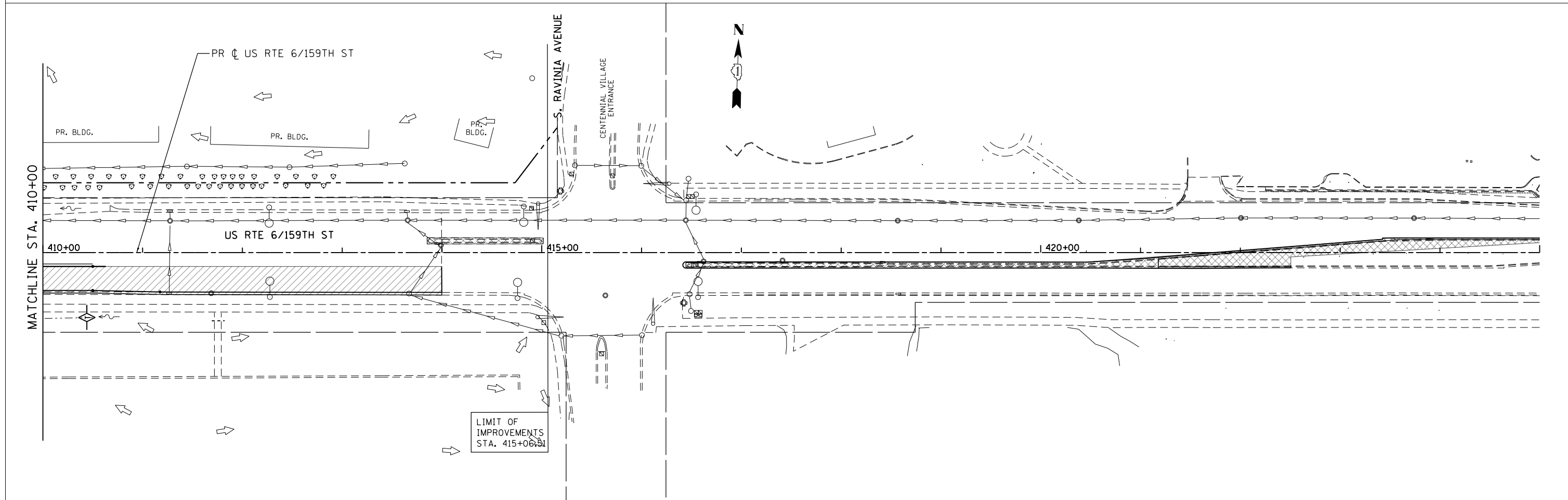
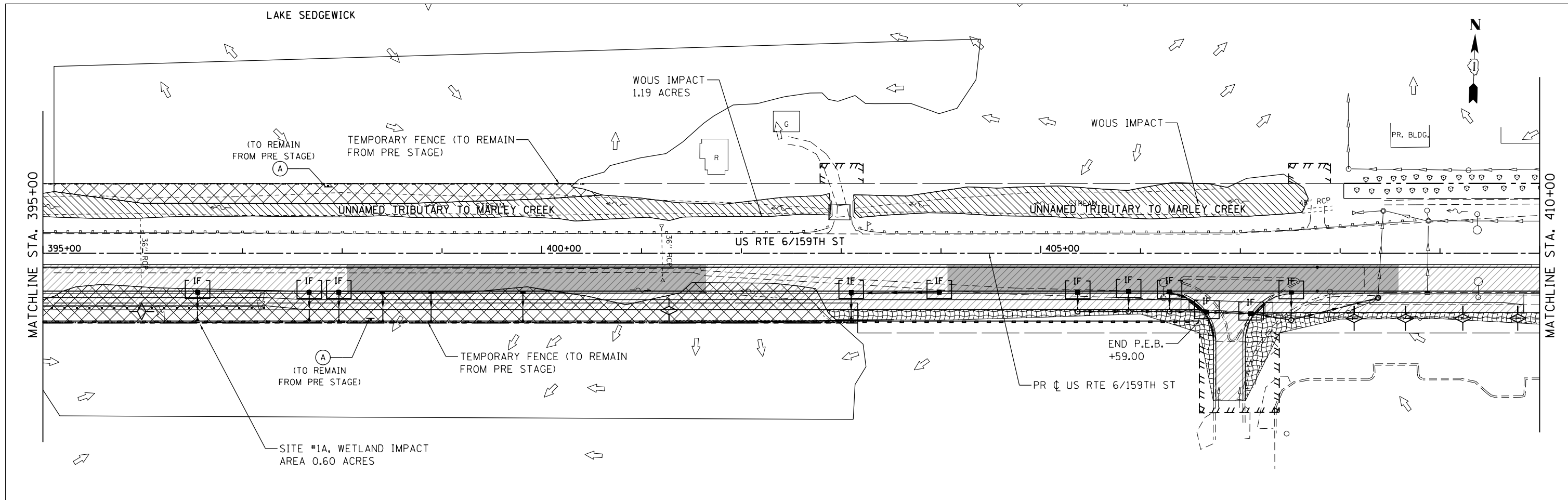
DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

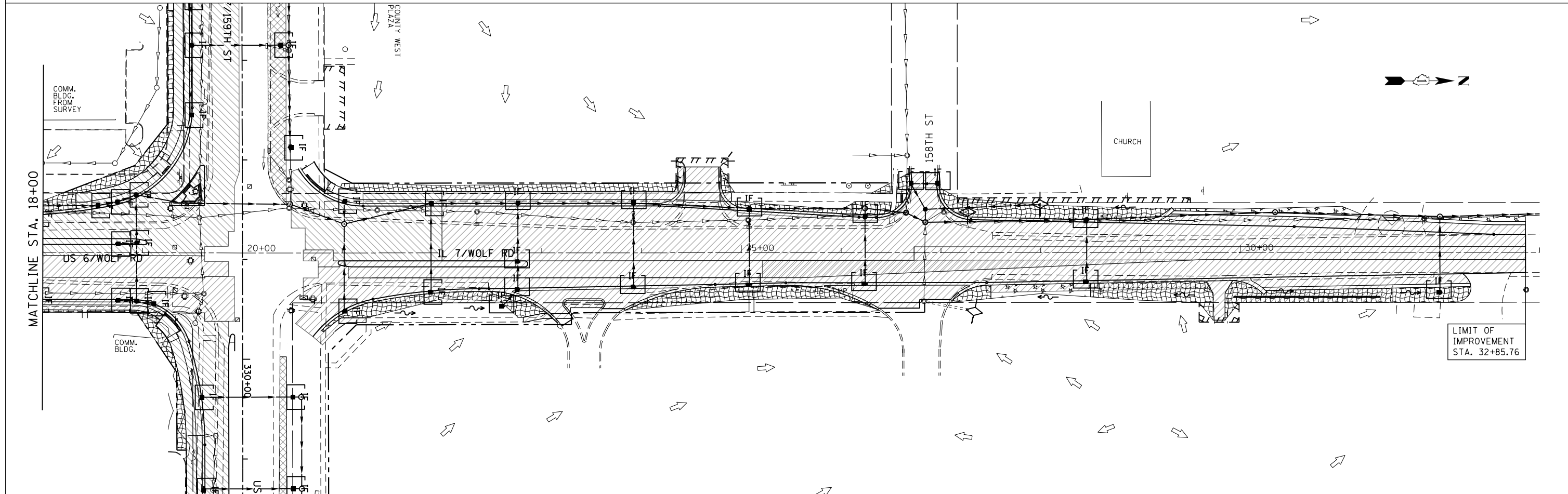
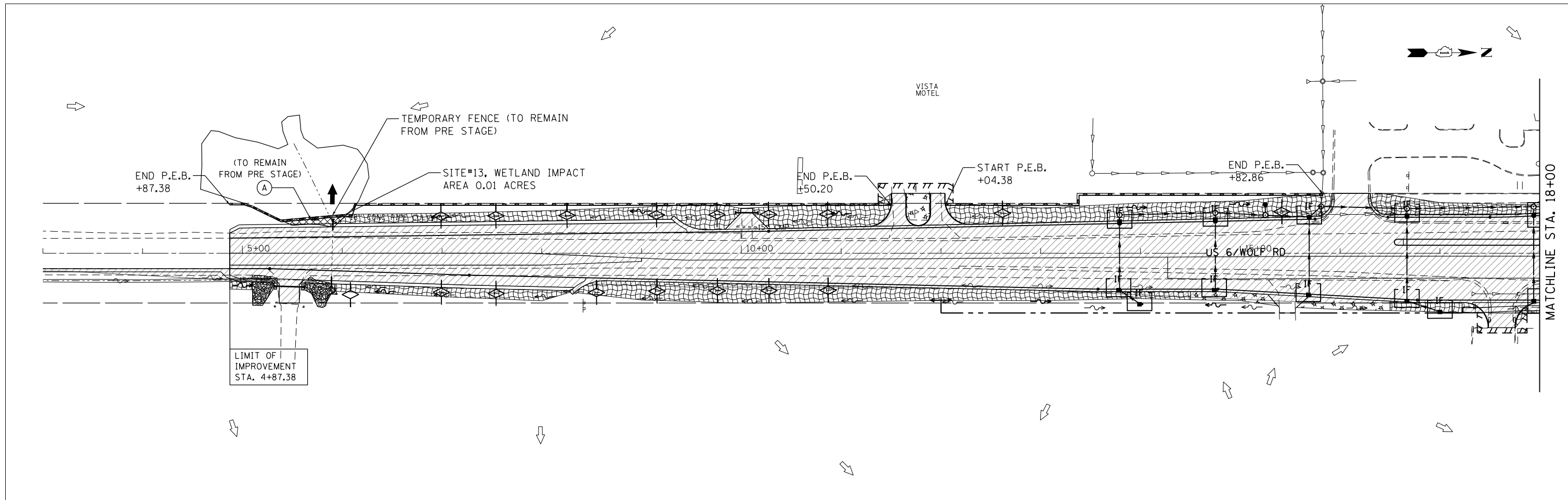
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 1**
 SCALE: 1"=50'
 SHEET 12 OF 32 SHEETS STA. 365+00.00 TO STA. 395+00.00

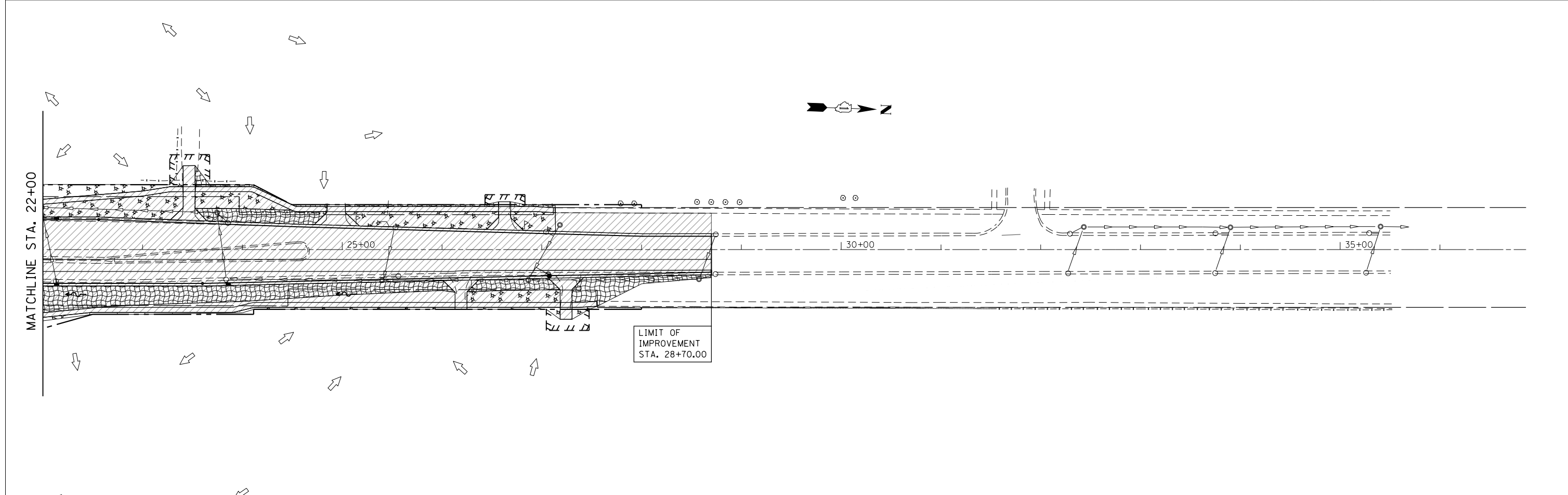
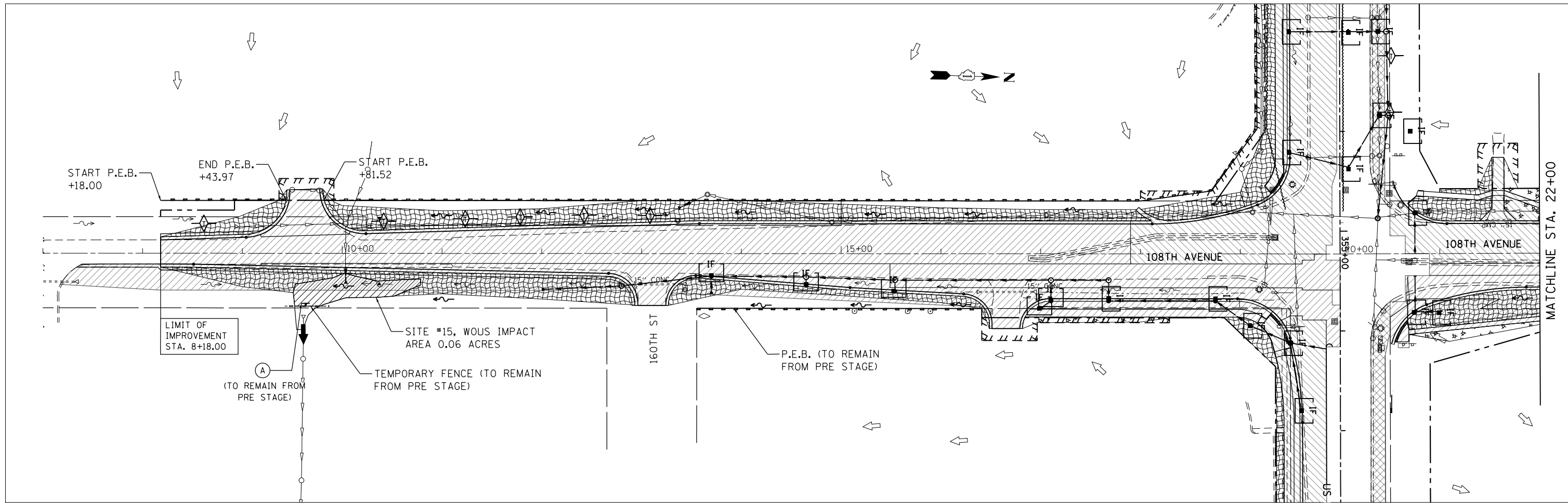
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	162
				CONTRACT NO. 60L72
ILLINOIS FED. AID PROJECT				



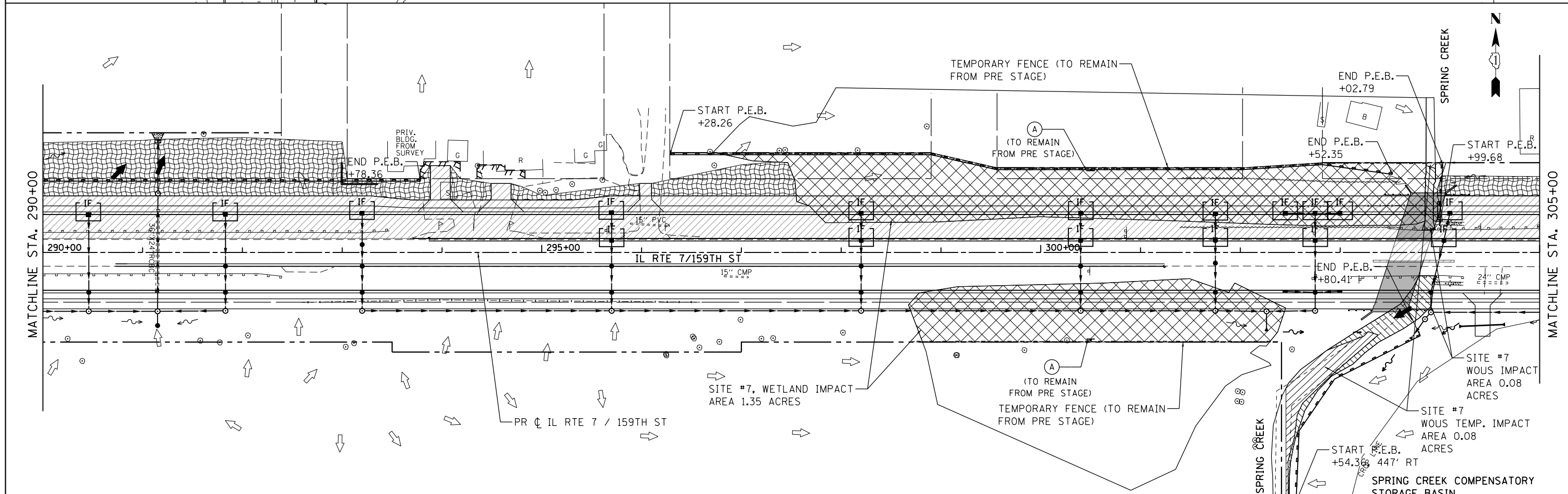
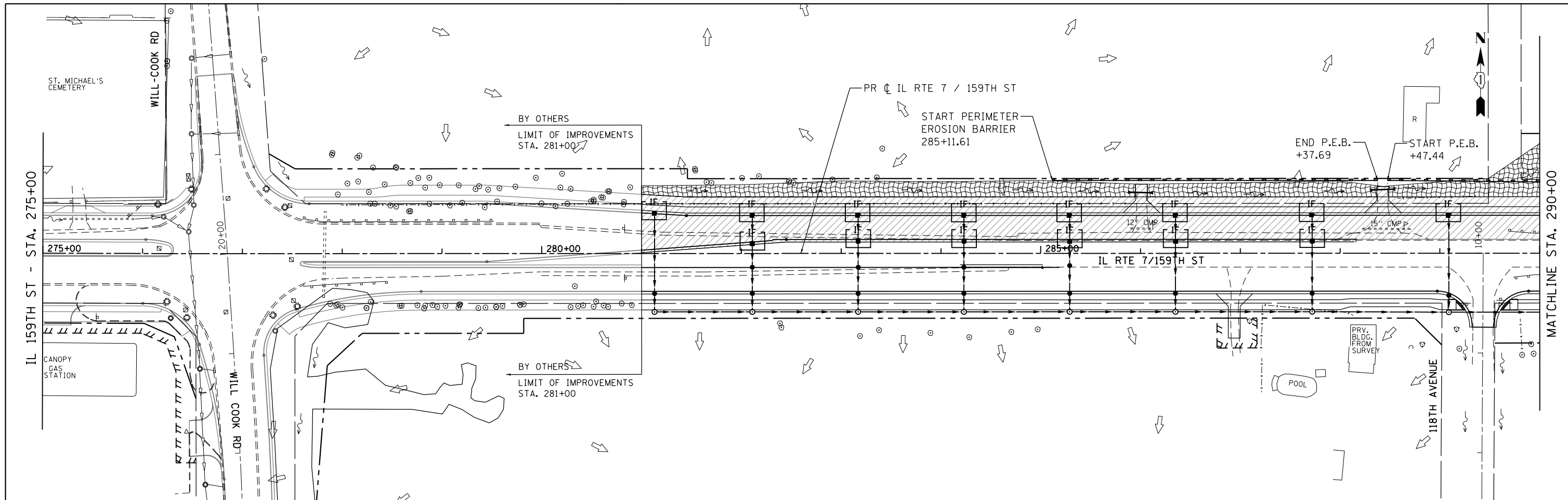
FILE NAME = D160L72-sht-erosion01.dgn	USER NAME = jwmiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 1			F.A.P. R.T.E. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 163
	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		SCALE: 1"=50'	SHEET 13 OF 32 SHEETS	STA. 395+00.00 TO STA. 415+06.51	CONTRACT NO. 60L72				
MODELNAME	PLOT DATE = 10/23/2014	DATE = 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							



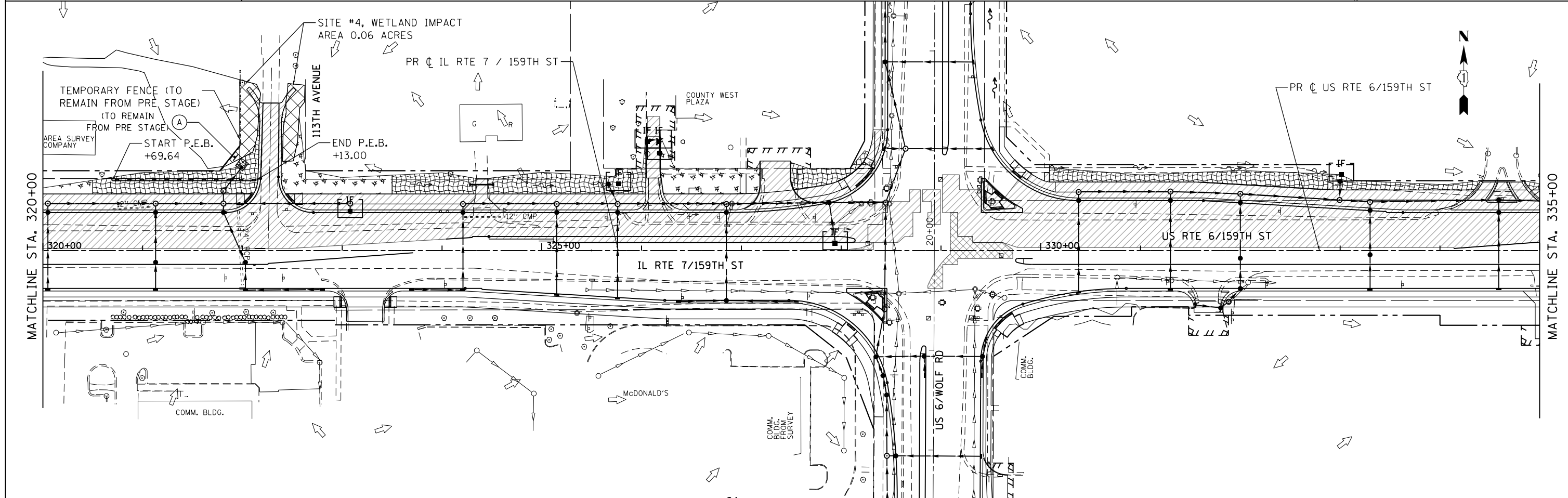
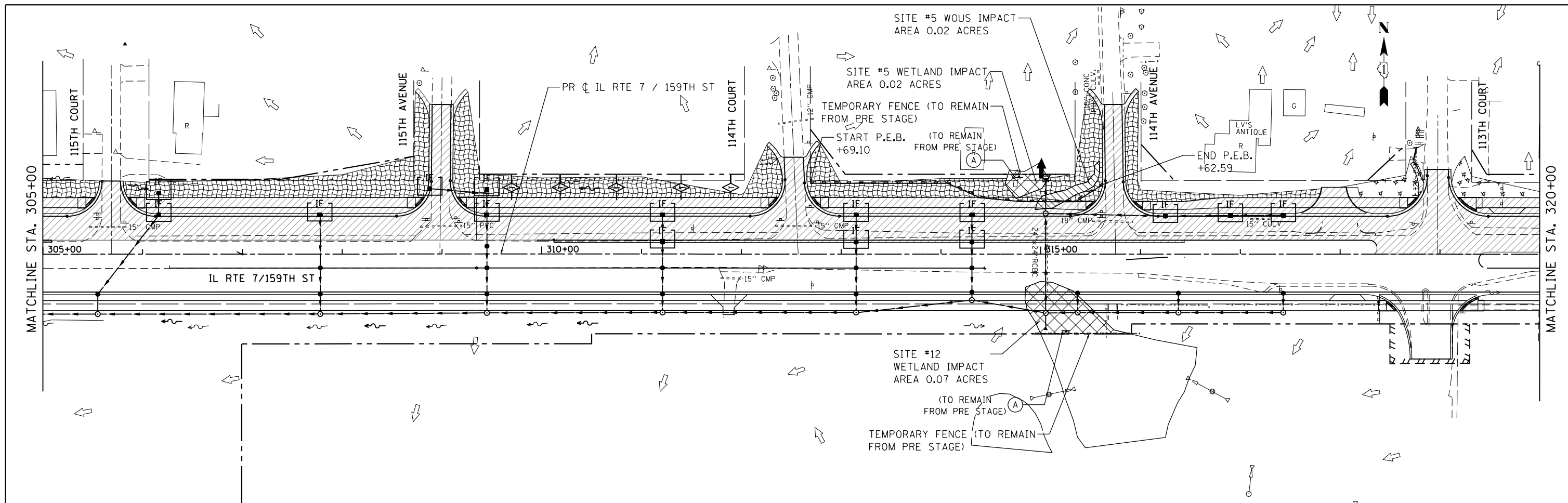
FILE NAME = D160L72-sht-erosion01.dgn	USER NAME = jwmiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 1			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	164
MODELNAME	PLOT DATE = 10/23/2014	DATE = 10/28/14	REVISED -	SCALE: 1"=50'			SHEET 14 OF 32 SHEETS STA. 4+87.38 TO STA. 32+85.76			ILLINOIS FED. AID PROJECT		



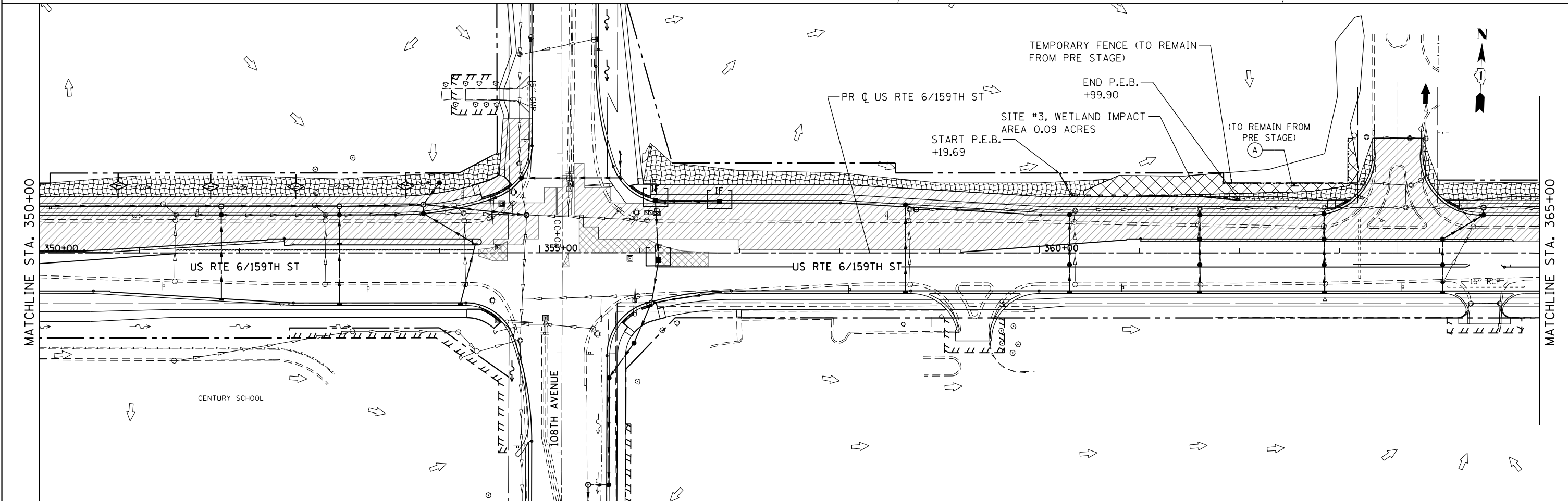
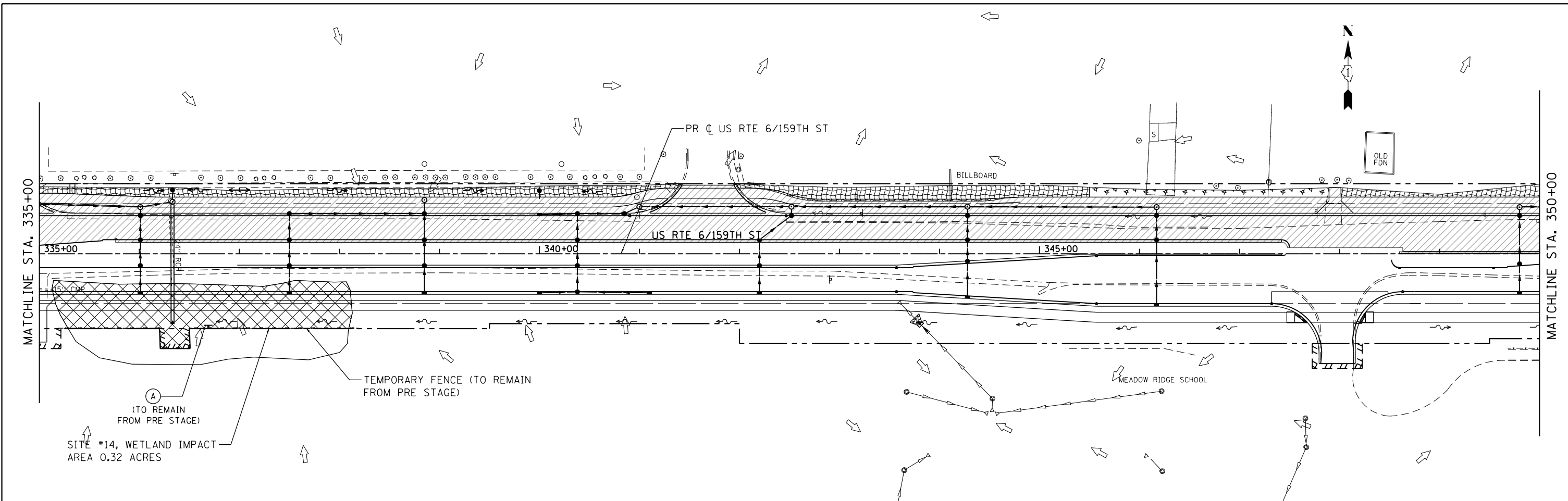
FILE NAME = D:\60L72-sht-erosion\01.dgn	USER NAME = jwMiller	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 1			F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 165
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					SCALE: 1"=50' SHEET 15 OF 32 SHEETS STA. 8+18.00 TO STA. 28+70.00			CONTRACT NO. 60L72	
MODELNAME	PLOT DATE = 10/23/2014	DATE = 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT								



FILE NAME = D160L72-sht-erosion02.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 2			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 166
#MODELNAME#	PLOT SCALE = 1:1100	CHECKED - JWM	REVISED -		SCALE: 1"=50'	SHEET 17	OF 32 SHEETS	STA. 281+00.00	TO STA. 305+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							



FILE NAME = D:\60L72-sht-erosion\02.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 2			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 167
#MODELNAME#	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		SCALE: 1"=50'	SHEET 18	OF 32 SHEETS	STA. 305+00.00	TO STA. 335+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							



FILE NAME = D:\60L72-sht-erosion\02.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

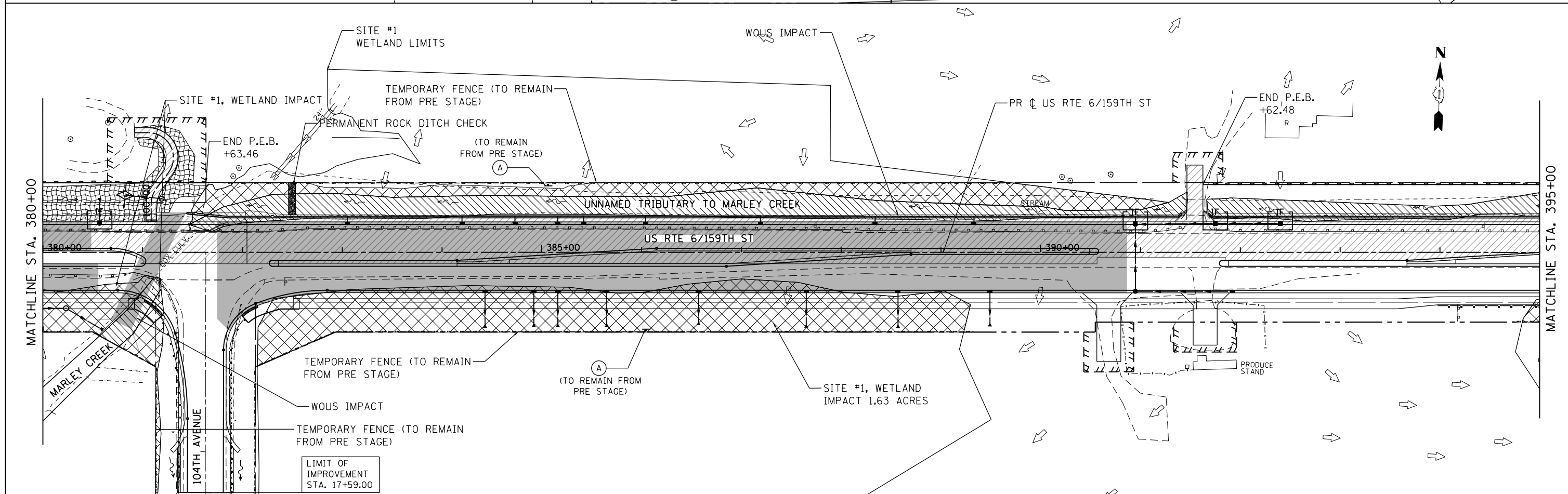
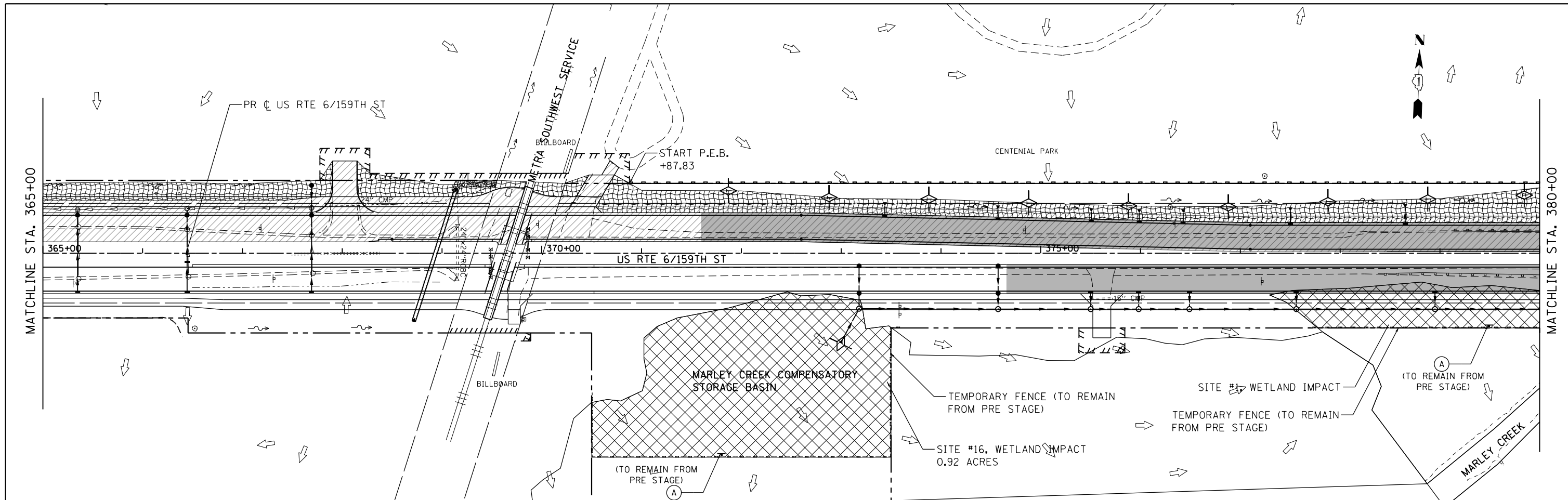
DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

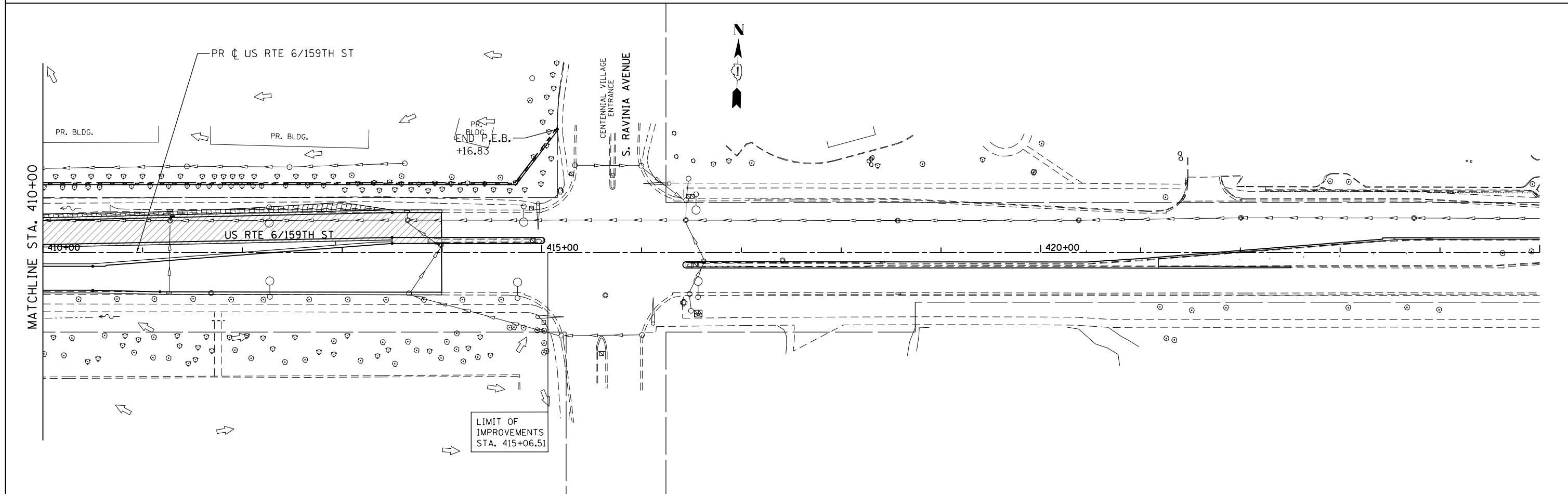
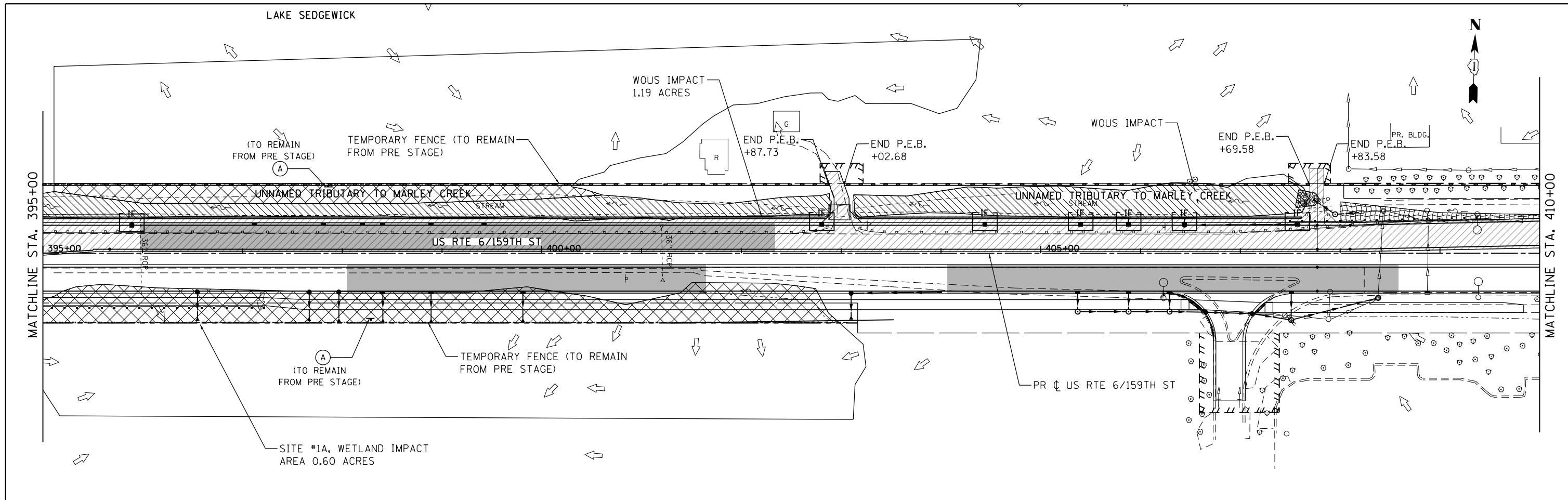
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 2**
 SCALE: 1"=50'
 SHEET 19 OF 32 SHEETS
 STA. 335+00.00 TO STA. 365+00.00

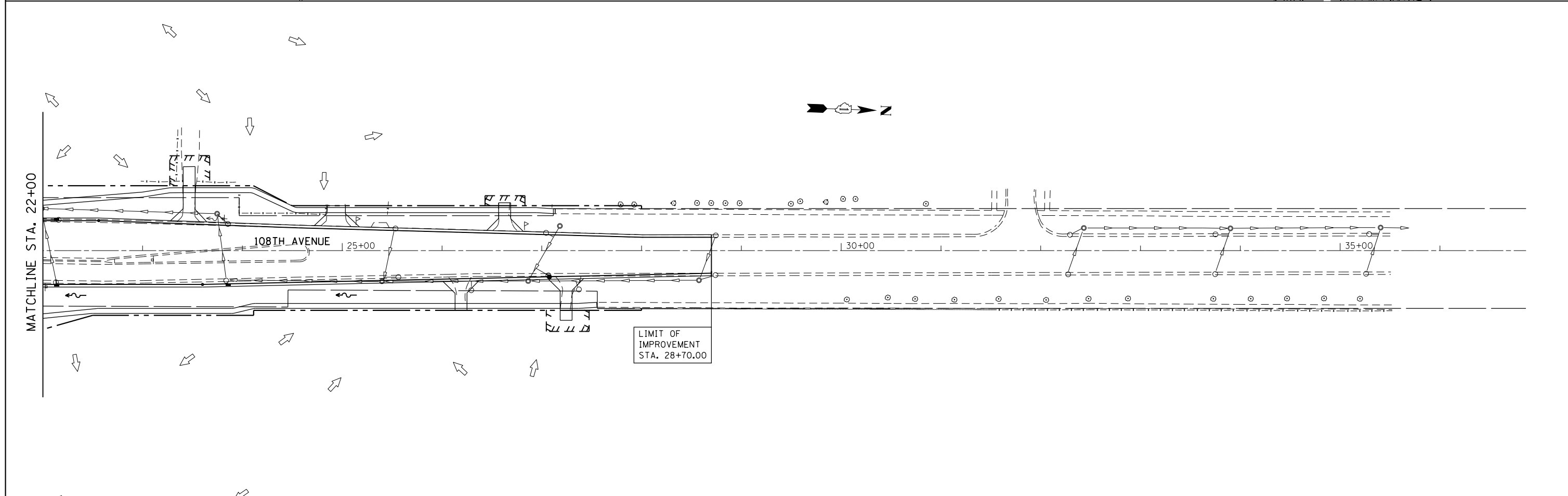
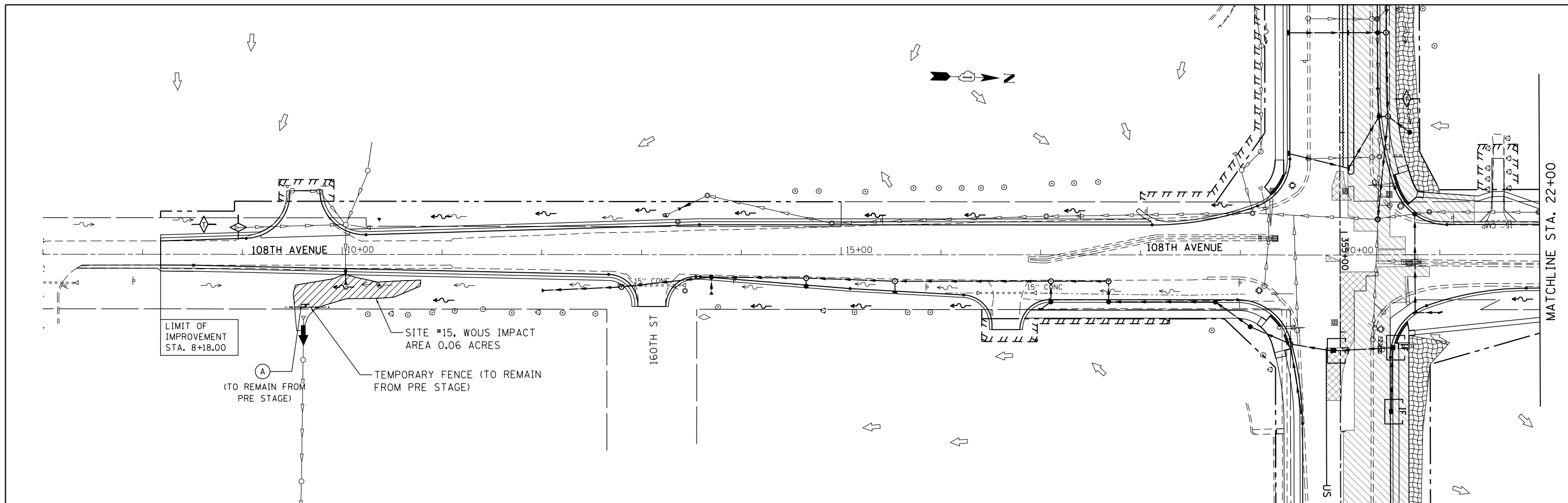
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	168
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				



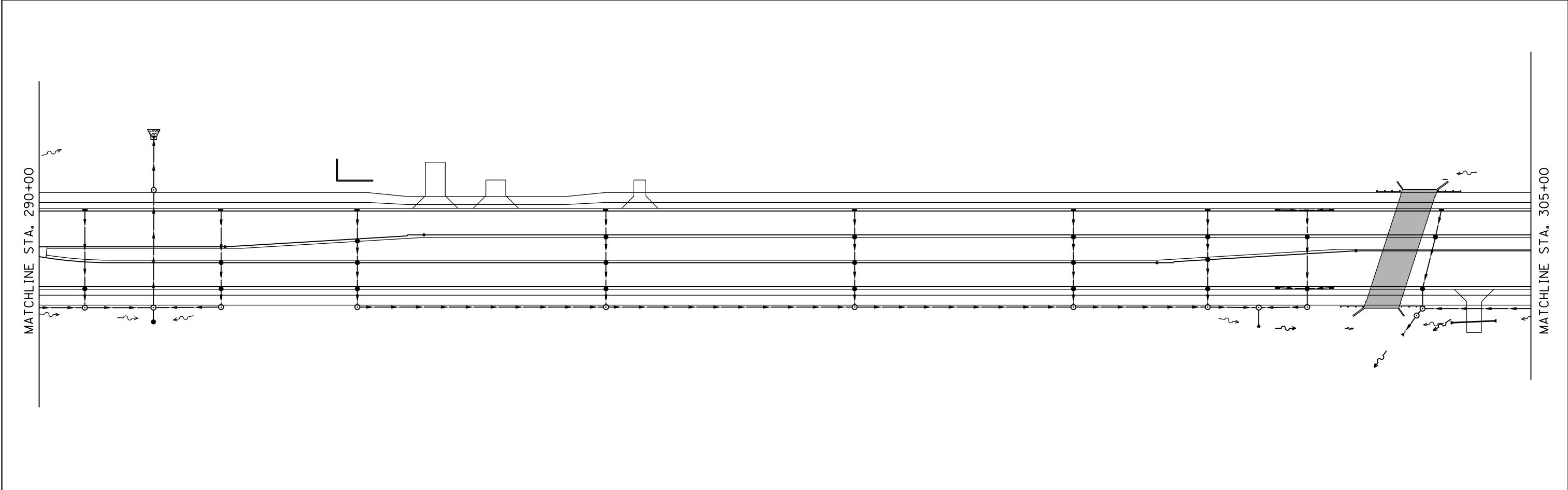
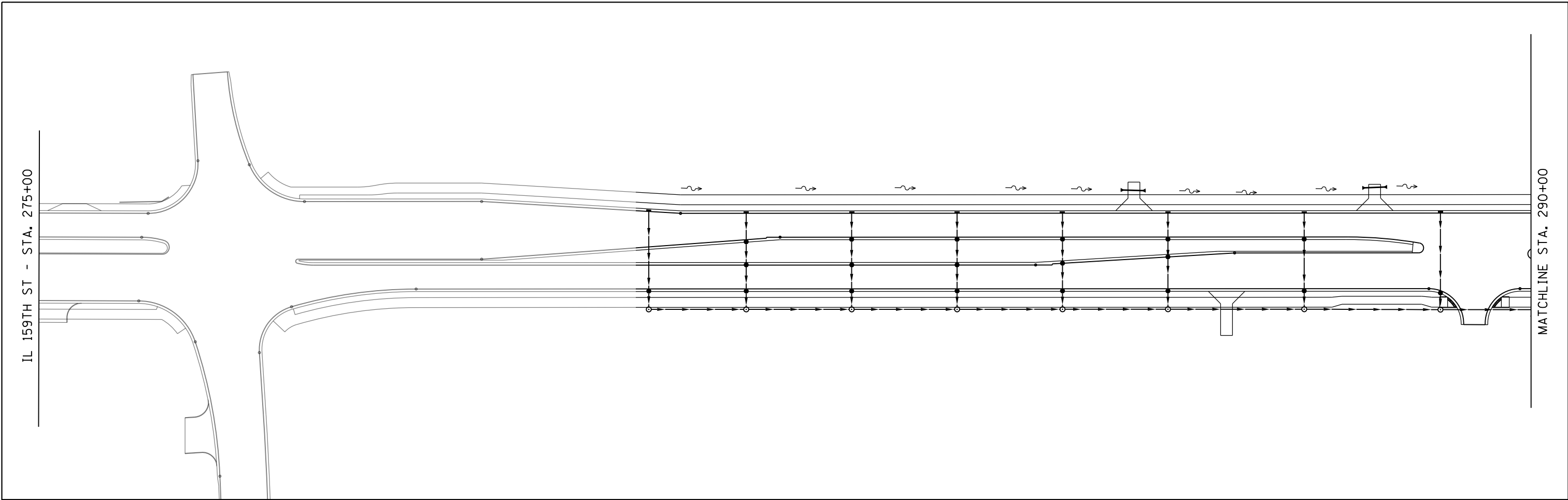
FILE NAME = D:\160L72-sht-erosion\02.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 2			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 169
#MODELNAME#	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		SCALE: 1"=50'	SHEET 20	OF 32 SHEETS	STA. 365+00.00	TO STA. 395+00.00	CONTRACT NO. 60L72		
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		ILLINOIS FED. AID PROJECT							



FILE NAME = D160L72-sht-erosion02.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 2			F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 170
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					SCALE: 1"=50'			SHEET 21 OF 32 SHEETS STA. 395+00.00 TO STA. 415+06.51	
#MODELNAME#	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT								



FILE NAME = D:\60L72-sht-erosion\02.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 2			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	172
MODELNAME	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -	SCALE: 1"=50' SHEET 23 OF 32 SHEETS STA. 8+18.00 TO STA. 28+70.00			CONTRACT NO. 60L72 ILLINOIS FED. AID PROJECT					



FILE NAME =
D:\60L72-sht-erosion\03.dgn
#MODELNAME#

USER NAME = rdonley
PLOT SCALE = 1:100
PLOT DATE = 10/22/2014

DESIGNED - JM
DRAWN - JM
CHECKED - JWM
DATE - 10/28/14

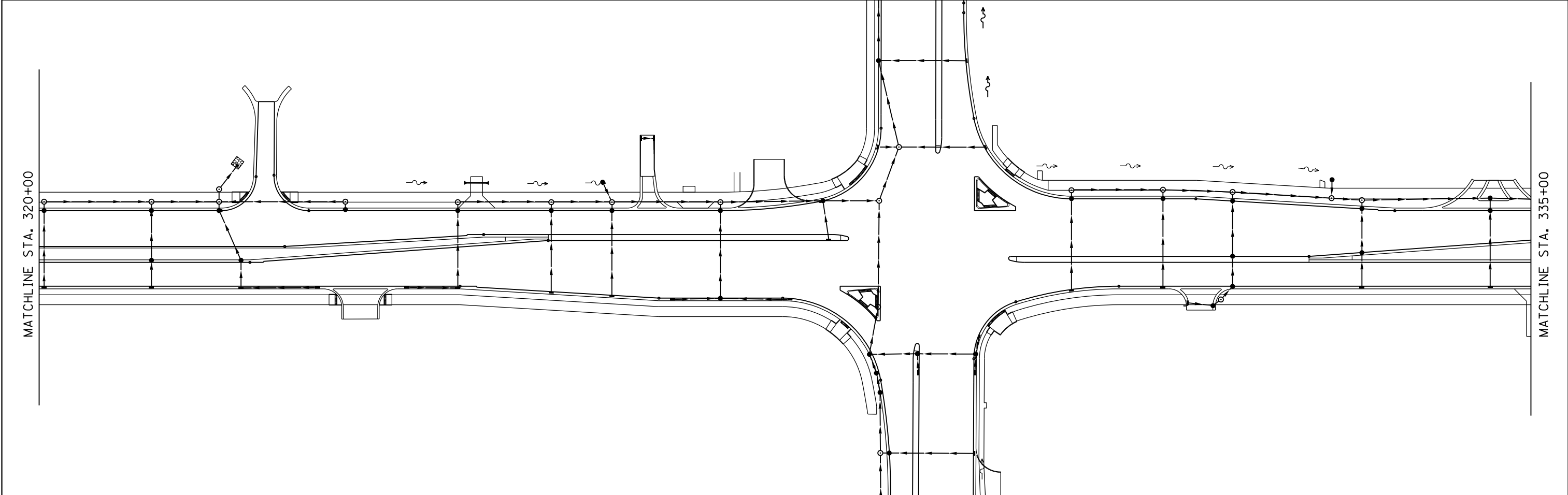
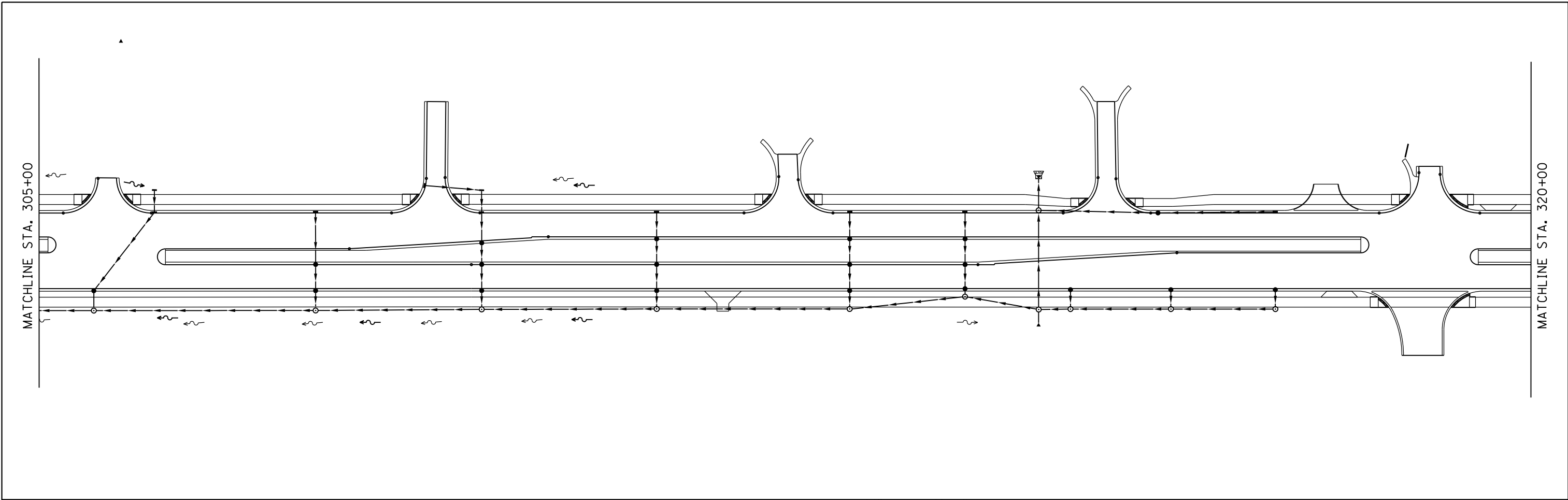
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

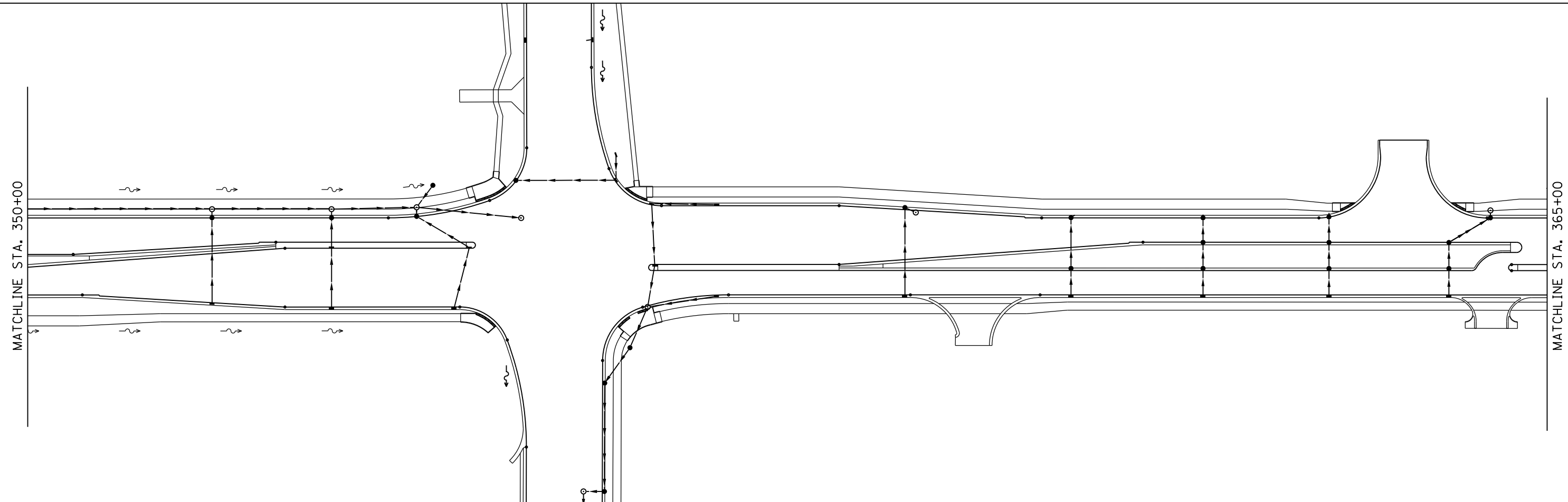
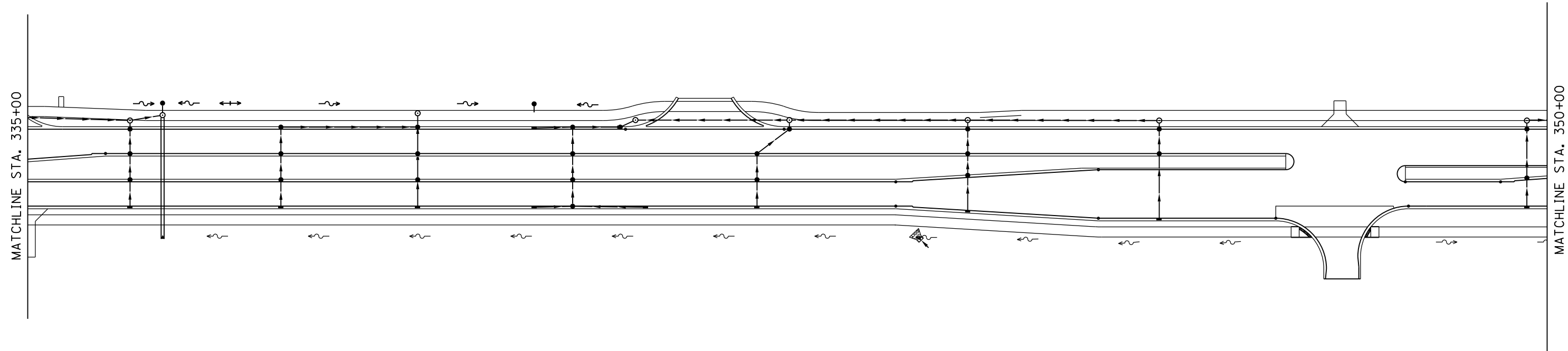
**EROSION AND SEDIMENT CONTROL PLAN
STAGE 3**

SCALE: 1"=50' SHEET 25 OF 32 SHEETS STA. 281+00.00 TO STA. 305+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	173
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L72	



FILE NAME = D:\60L72-sht-erosion\03.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	DRAWN - JM	REVISED -					351	2010-081-R	COOK	1045	174
*MODELNAME#	PLOT DATE = 10/22/2014	CHECKED - JWM	REVISED -	SCALE: 1"=50' SHEET 26 OF 32 SHEETS STA. 305+00.00 TO STA. 335+00.00			CONTRACT NO. 60L72					
		DATE - 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT								



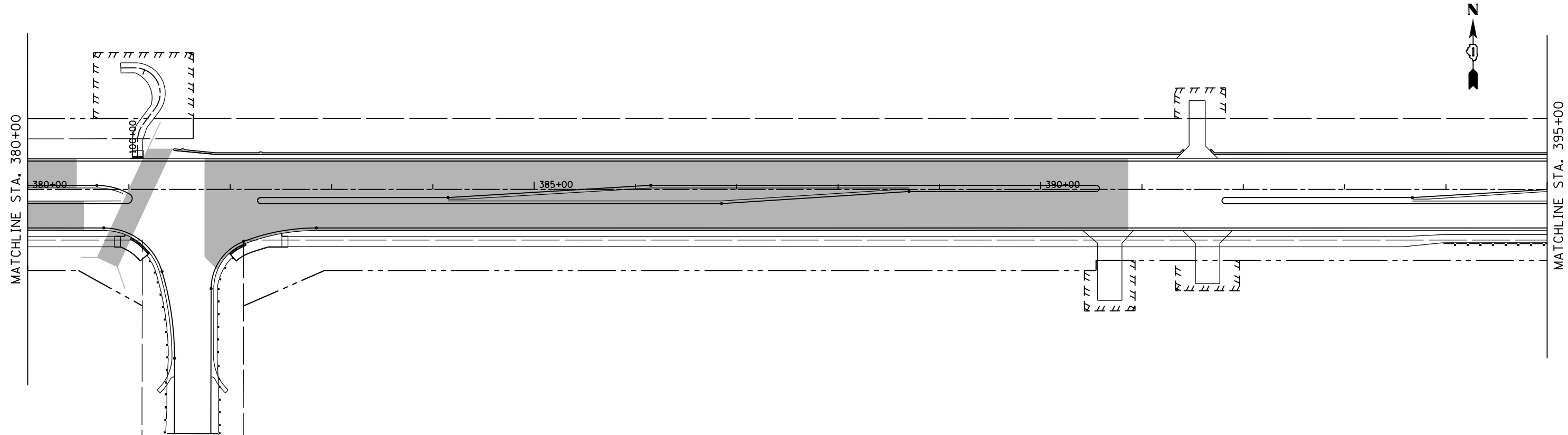
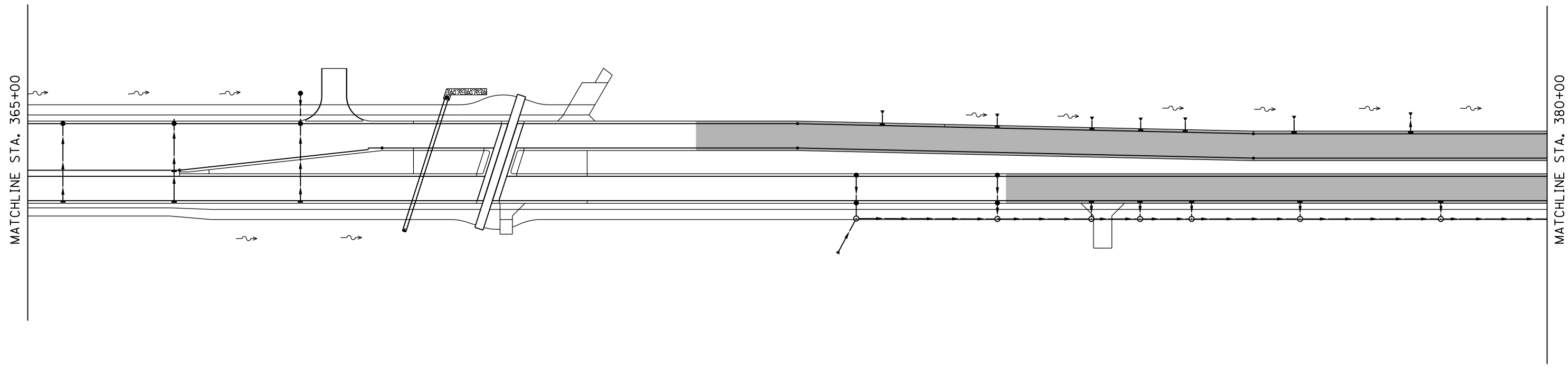
FILE NAME = D:\60L72-sht-erosion\03.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -
	PLOT SCALE = 1:100	DRAWN - JM	REVISED -
	PLOT DATE = 10/22/2014	CHECKED - JWM	REVISED -
#MODELNAME#		DATE - 10/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

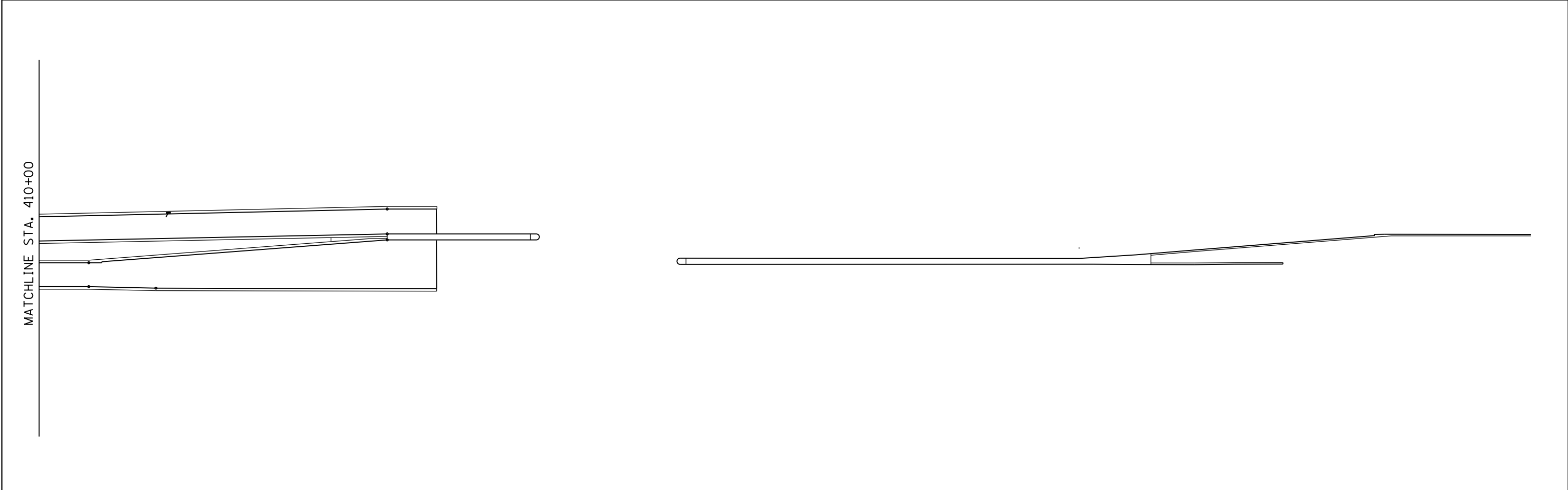
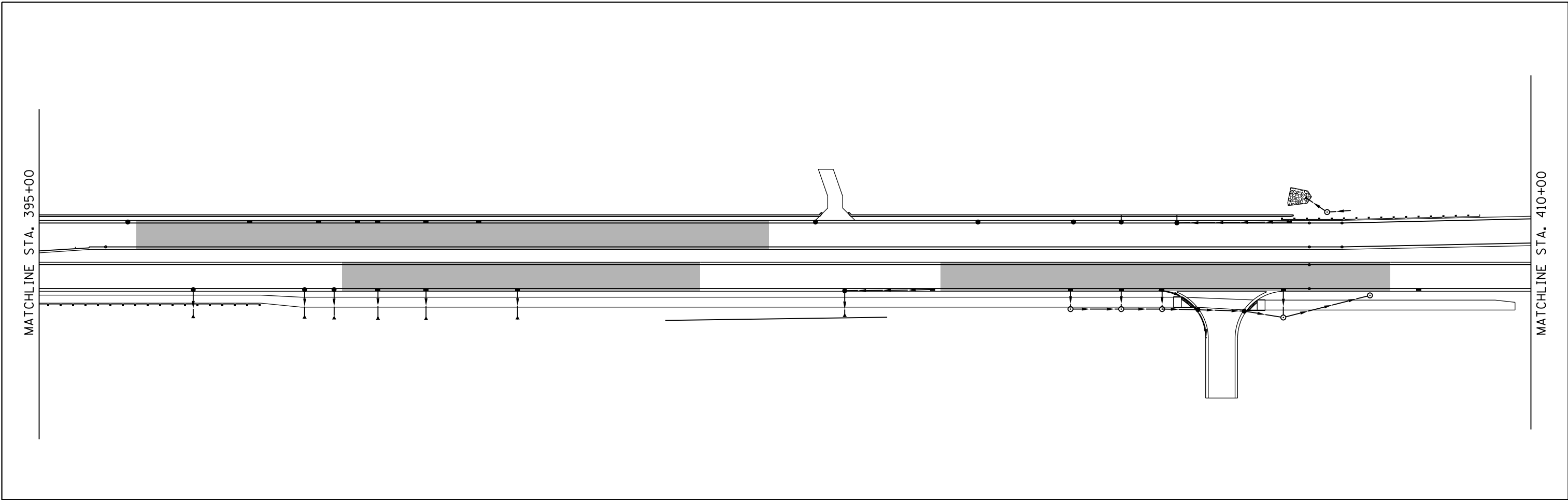
**EROSION AND SEDIMENT CONTROL PLAN
STAGE 3**

SCALE: 1"=50' SHEET 27 OF 32 SHEETS STA. 335+00.00 TO STA. 365+00.00

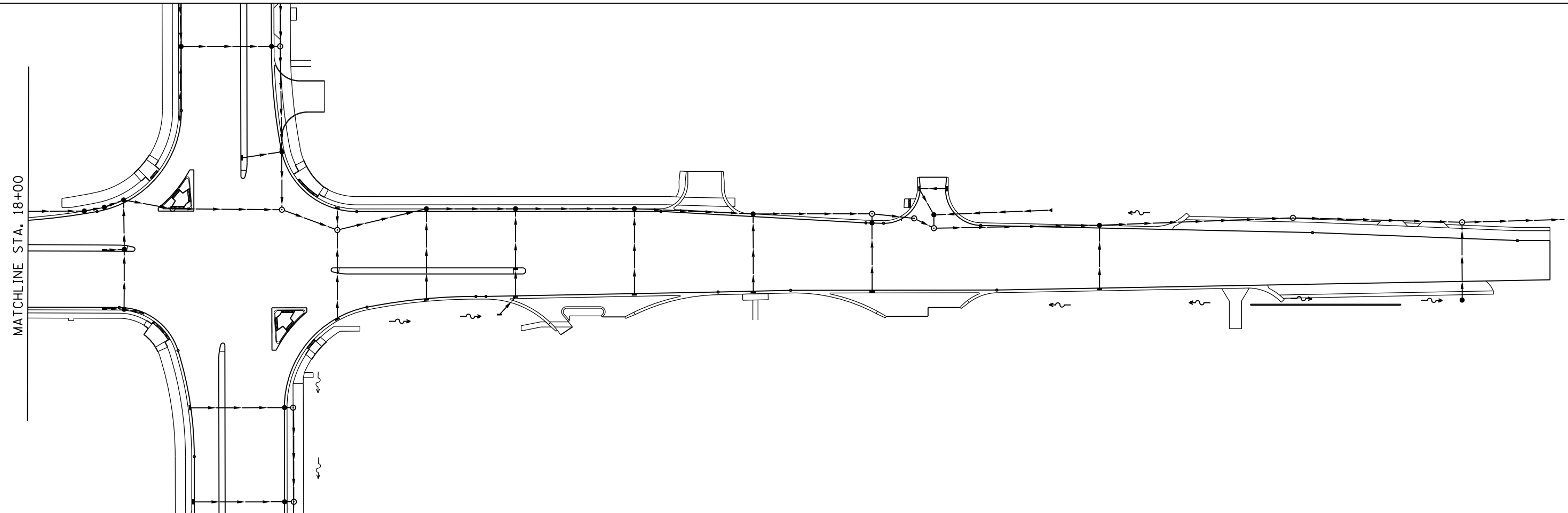
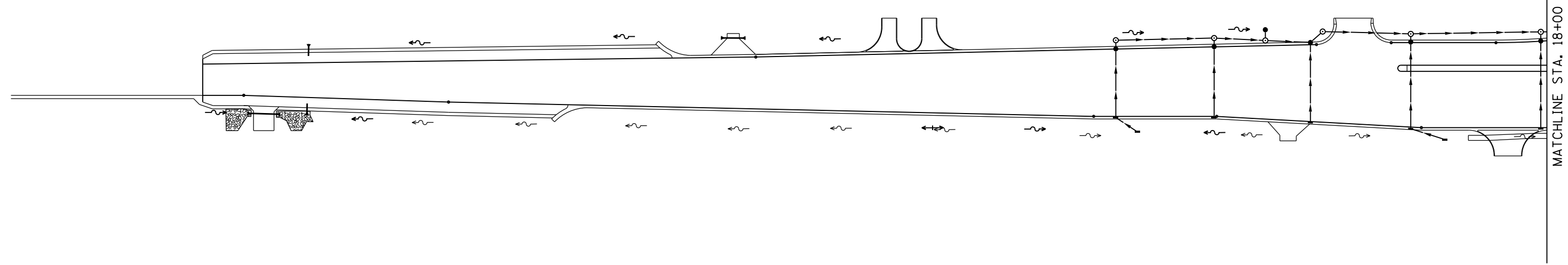
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	175
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	



FILE NAME = D:\60L72-sht-erosion\03.dgn	USER NAME = rdonley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	176
MODELNAME	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		SCALE: 1"=50'	SHEET 28	OF 32 SHEETS	STA. 365+00.00 TO STA. 395+00.00	CONTRACT NO. 60L72			
								ILLINOIS FED. AID PROJECT				



FILE NAME = D:\60L72-sht-erosion\03.dgn	USER NAME = rdenley	DESIGNED - JM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL PLAN STAGE 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:100	CHECKED - JWM	REVISED -					351	2010-081-R	COOK	1045	177
MODELNAME	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -		SCALE: 1"=50' SHEET 29 OF 32 SHEETS STA. 395+00.00 TO STA. 415+06.51			ILLINOIS FED. AID PROJECT				
							CONTRACT NO. 60L72					



FILE NAME = D:\60L72-sht-erosion\03.dgn
 #MODELNAME#

USER NAME = rdonley
 PLOT SCALE = 1:100
 PLOT DATE = 10/22/2014

DESIGNED - JM
 DRAWN - JM
 CHECKED - JWM
 DATE - 10/28/14

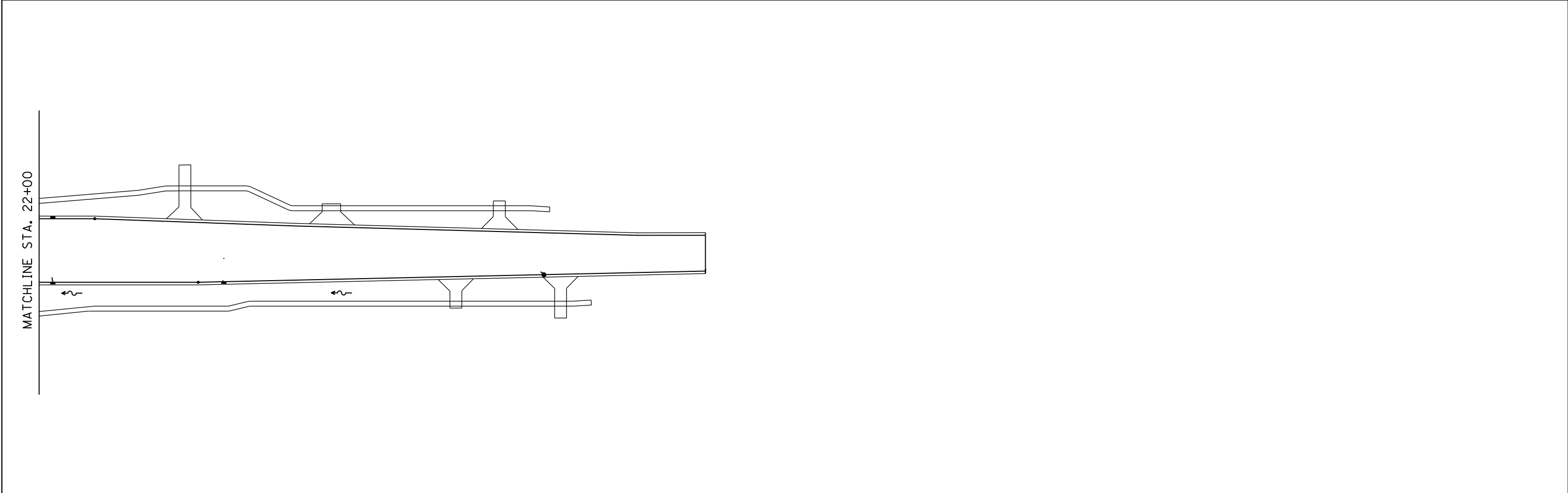
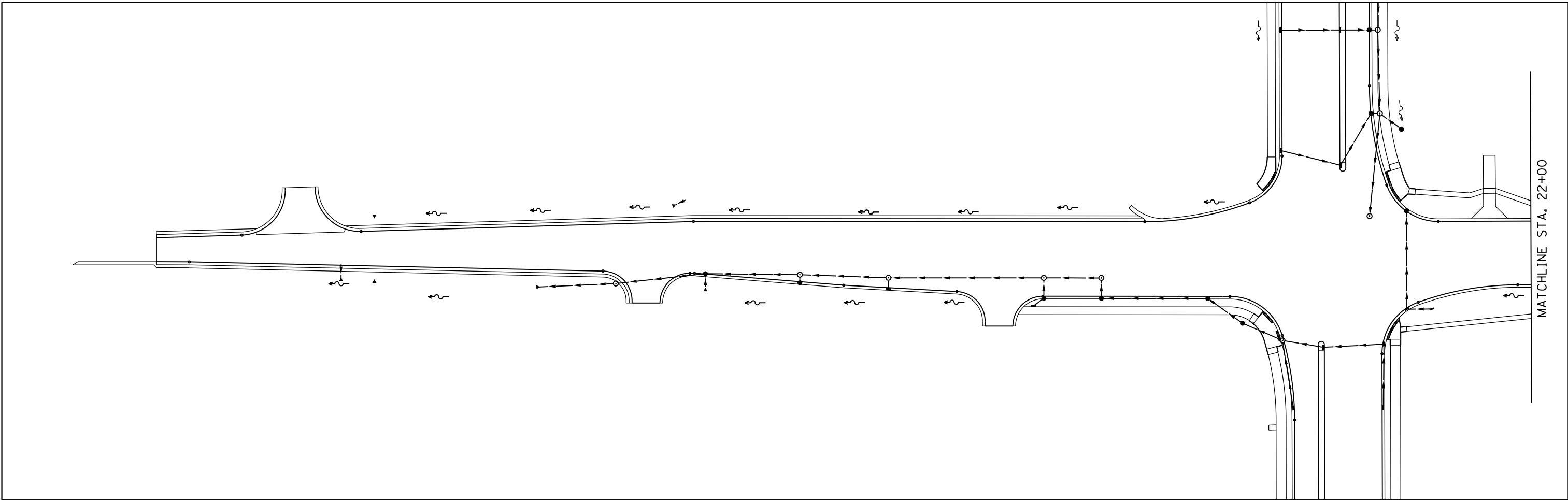
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
 STAGE 3**

SCALE: 1"=50' SHEET 30 OF 32 SHEETS STA. 4+87.38 TO STA. 32+85.76

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	178
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	



FILE NAME =
D:\60L72-sht-erosion\03.dgn
#MODELNAME#

USER NAME = rdonley
PLOT SCALE = 1:100
PLOT DATE = 10/22/2014

DESIGNED - JM
DRAWN - JM
CHECKED - JWM
DATE - 10/28/14

REVISED -
REVISED -
REVISED -
REVISED -

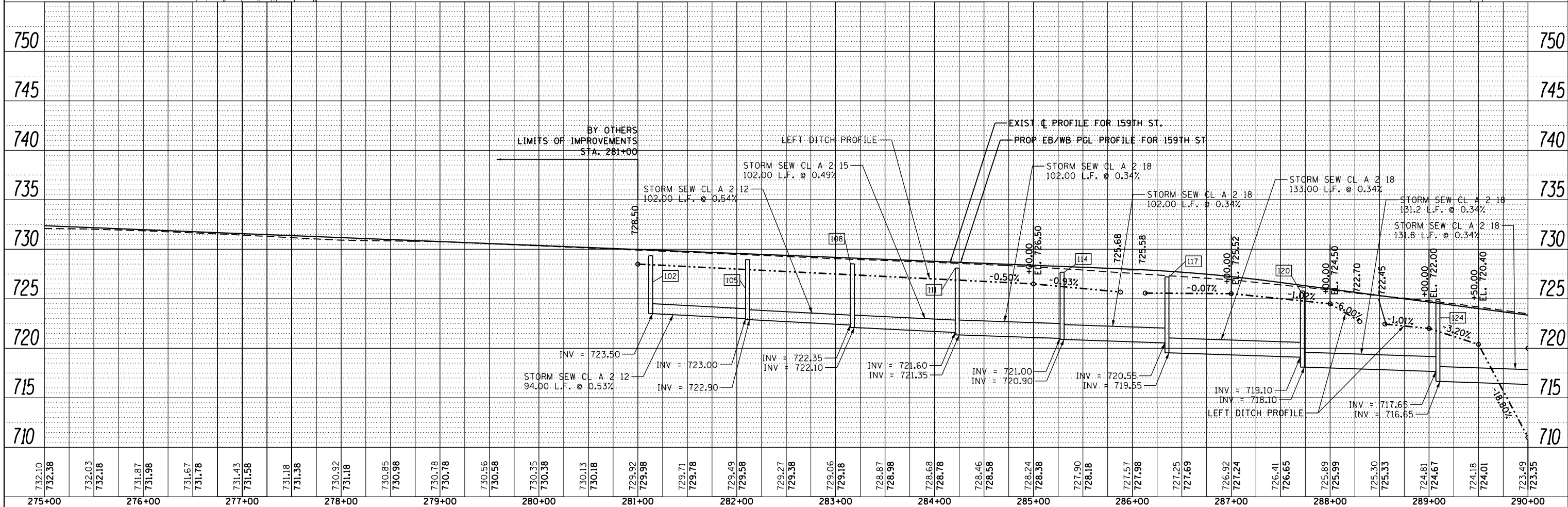
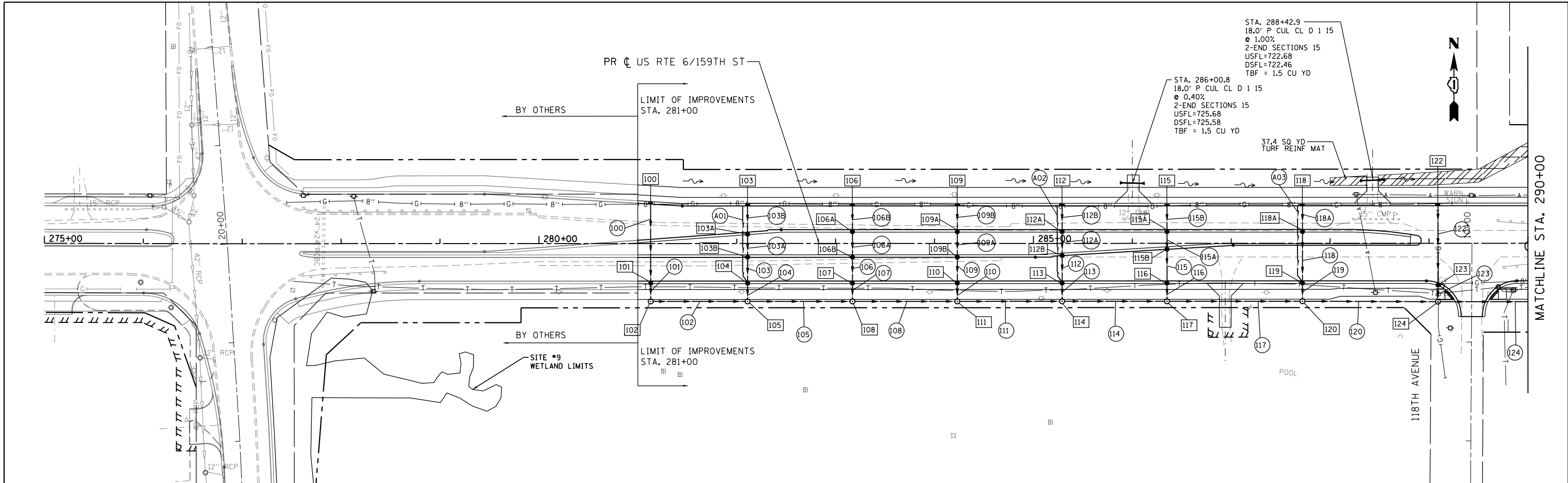
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN
STAGE 3**
SCALE: 1"=50' SHEET 31 OF 32 SHEETS STA. 8+18.00 TO STA. 28+70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	179
CONTRACT NO. 60L72			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	

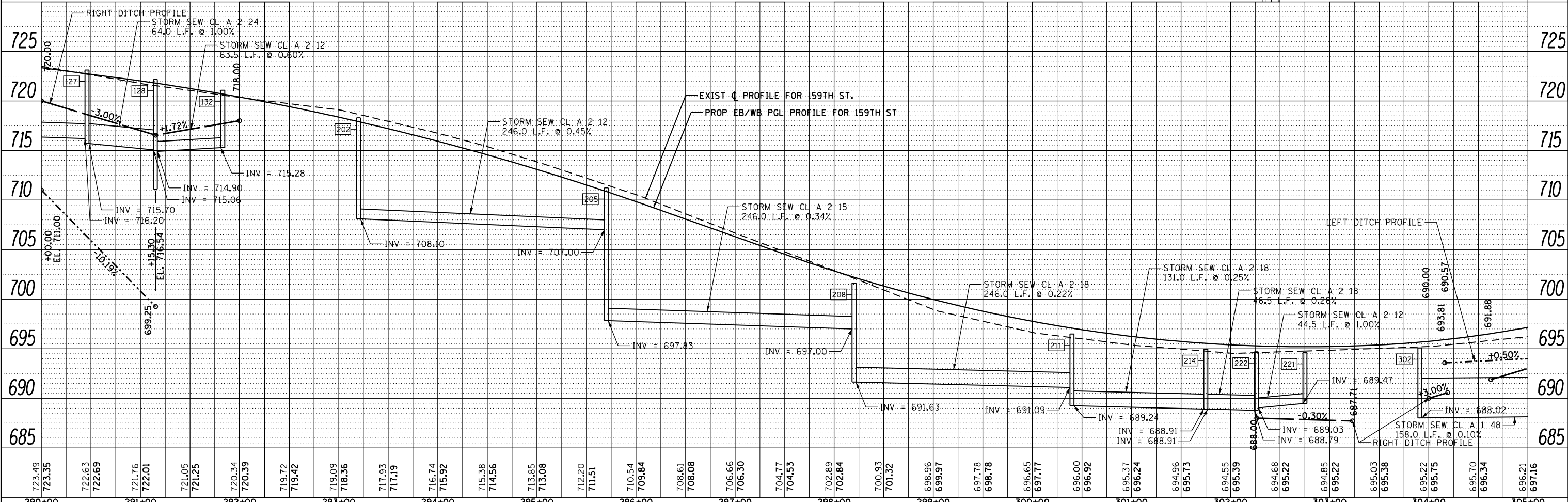
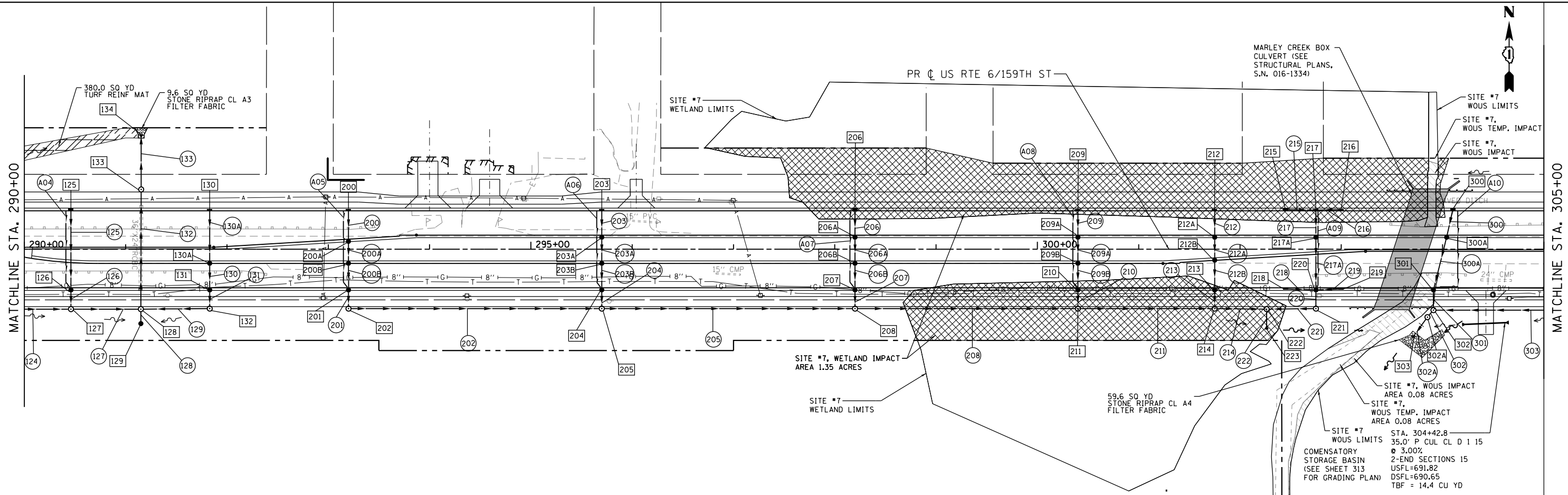
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	FILE NAME	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 180		
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -			SHEET OF SHEETS =	STA. TO STA. =	CONTRACT NO. 60L72				
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

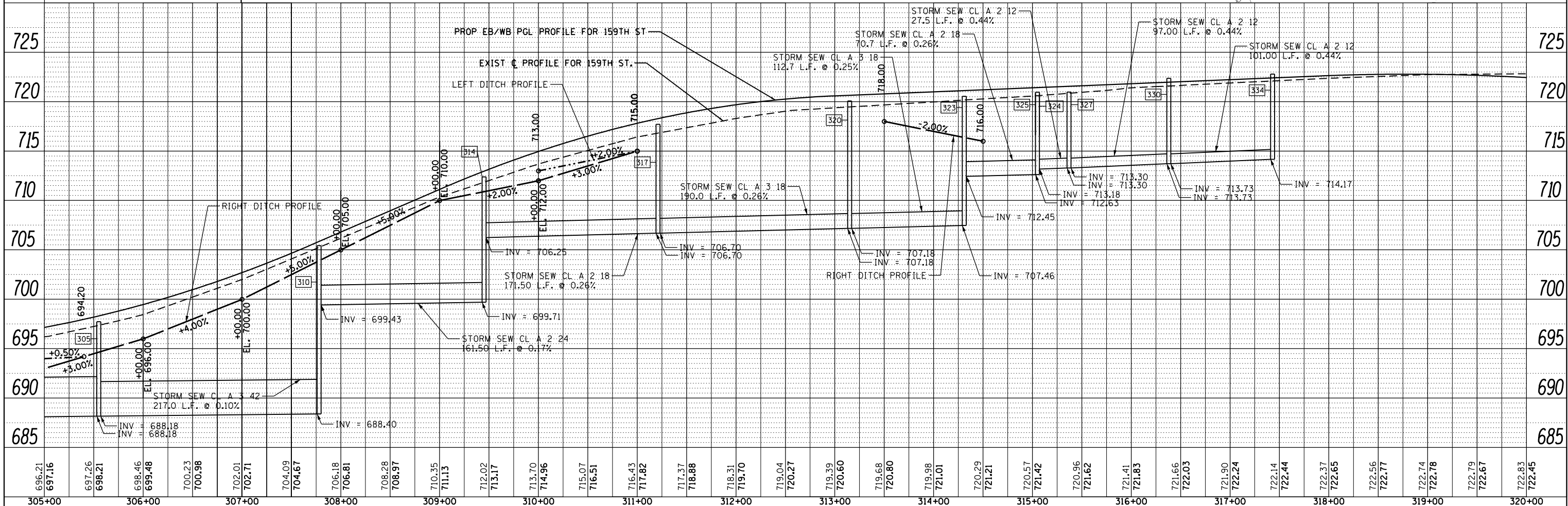
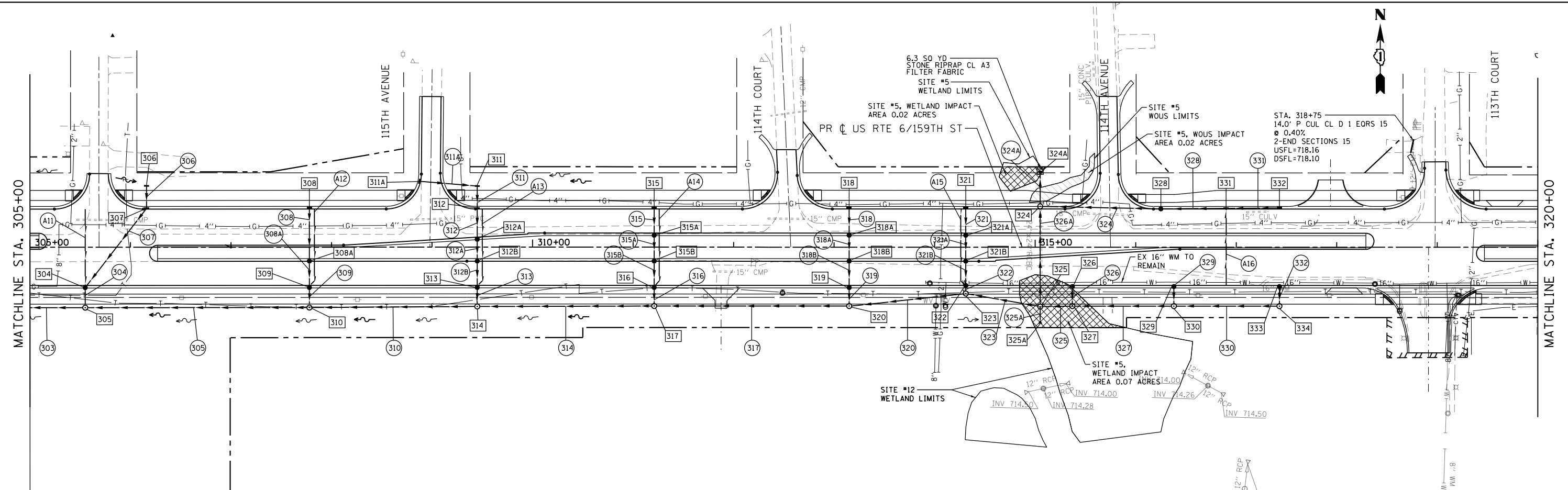
PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RT. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 181
PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -	SHEET OF SHEETS =			STA. TO STA. =	CONTRACT NO. = 60L72		
PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	

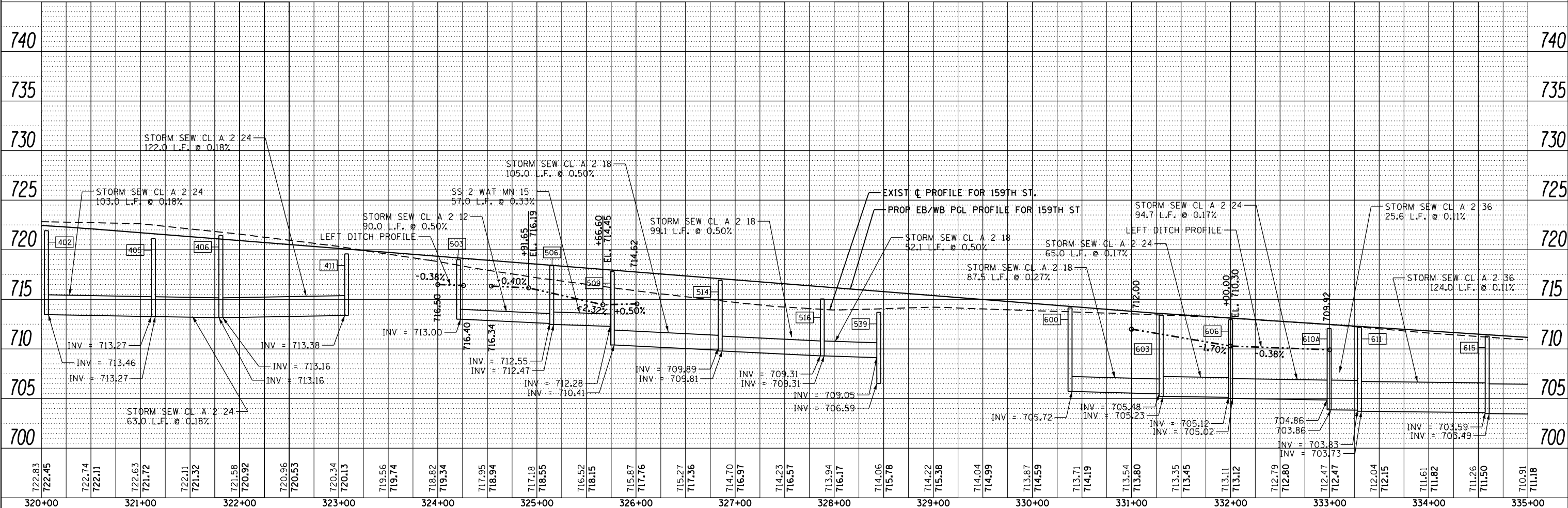
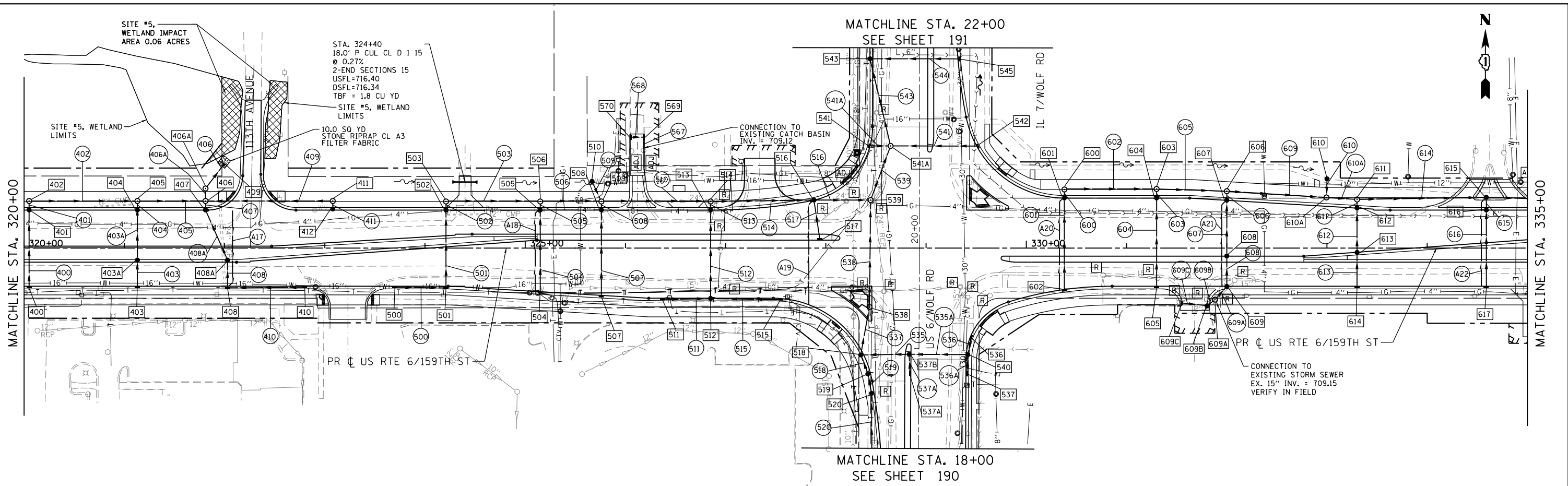
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	
	NOT AT THIS OFFICE	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 182
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -			CONTRACT NO. = 60L72				
PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	

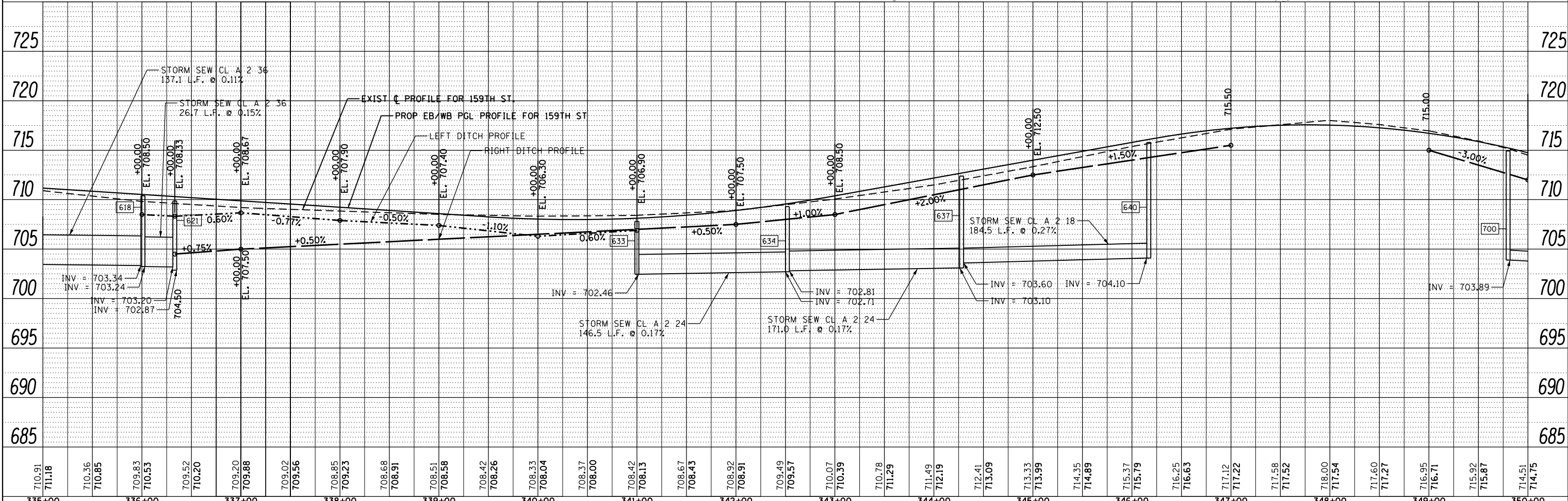
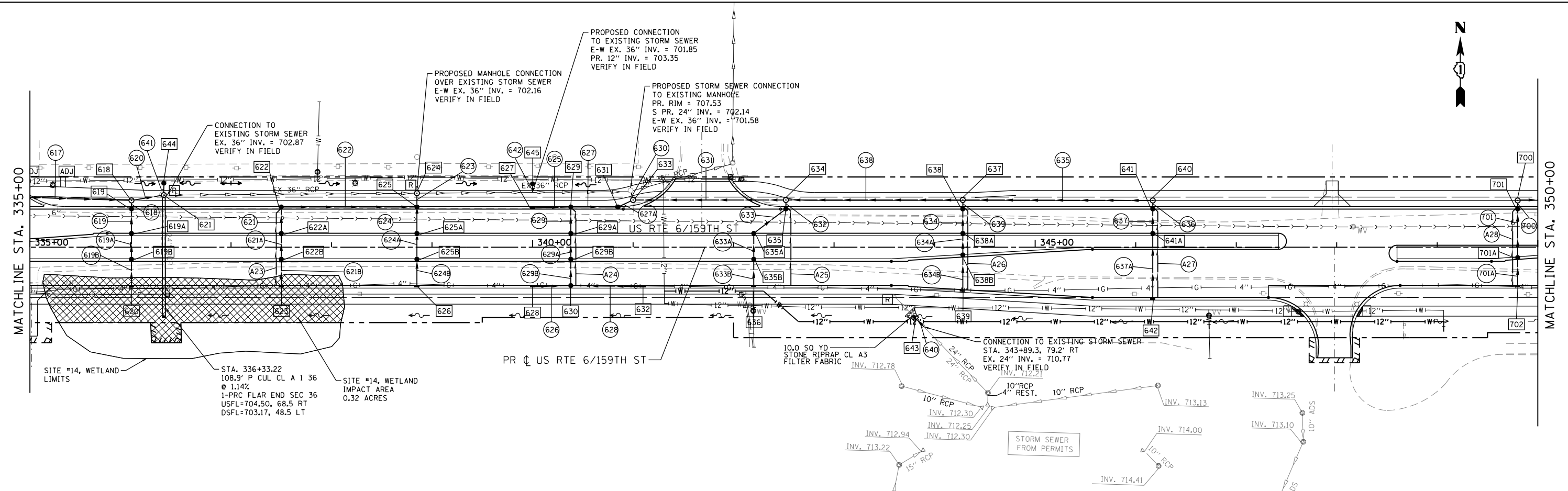
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NOTE BOOK NO.	
	CADD FILE NAME	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE		F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 183	SHEET NO. 1045
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		159TH STREET		SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60L72		ILLINOIS FED. AID PROJECT
	PLOT DATE = 10/22/2014	DATE - 10/28/14	REVISED -								

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	FILE NAME	
	NO.	

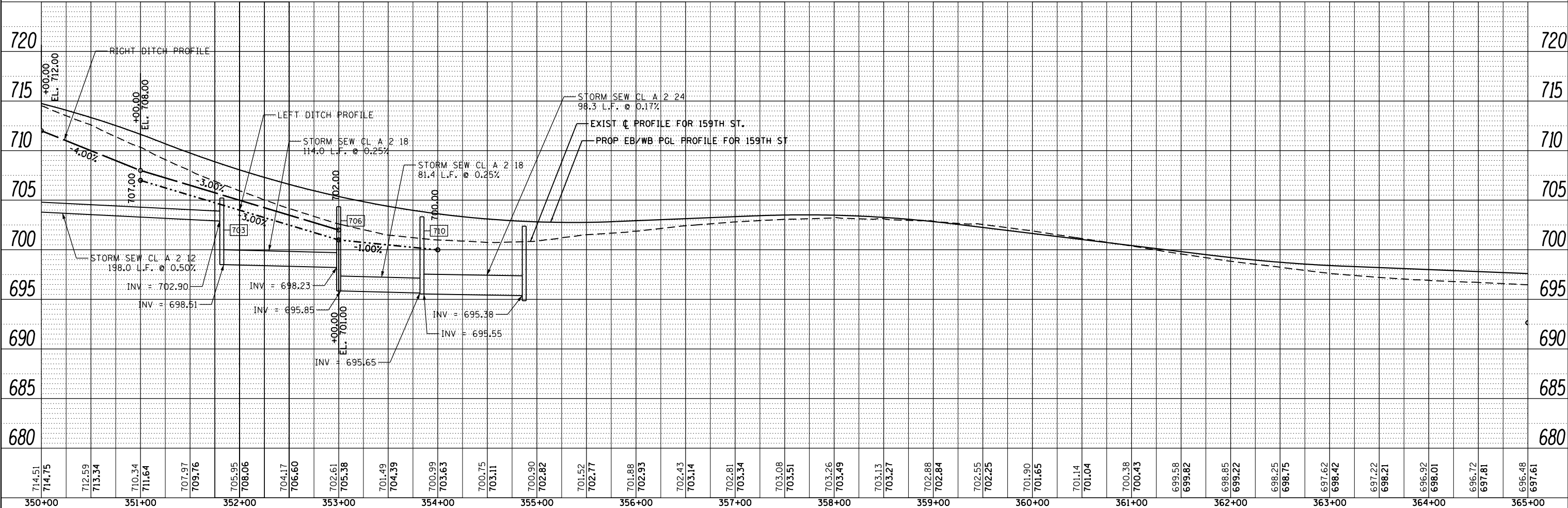
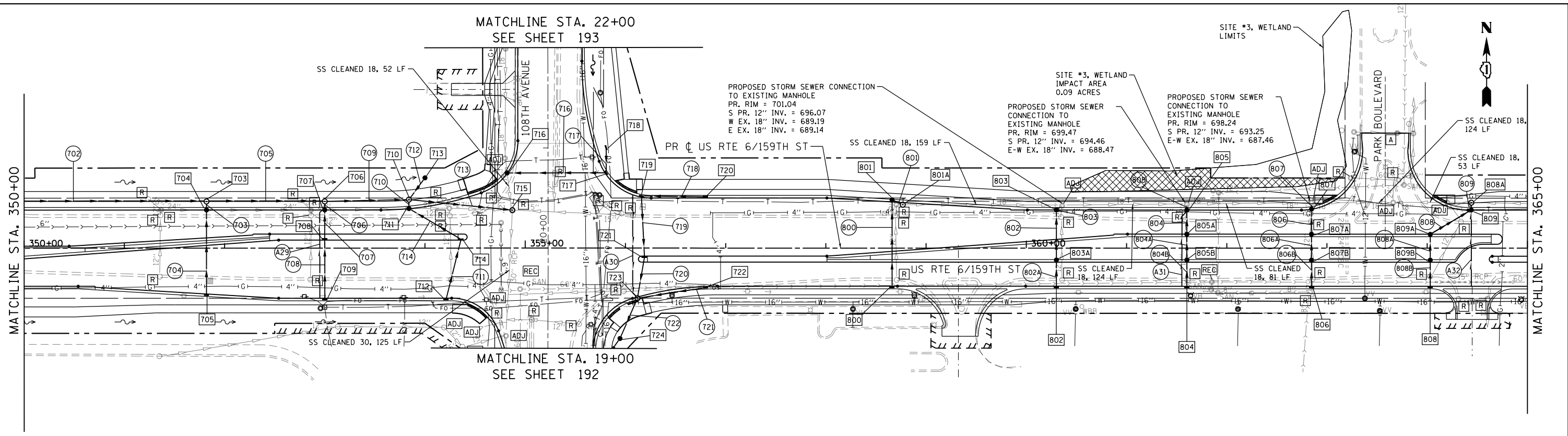
PROFILE	SURVEYED	DATE
	GRADES CHECKED	BY
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 184
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -			CONTRACT NO. = 60L72				
PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

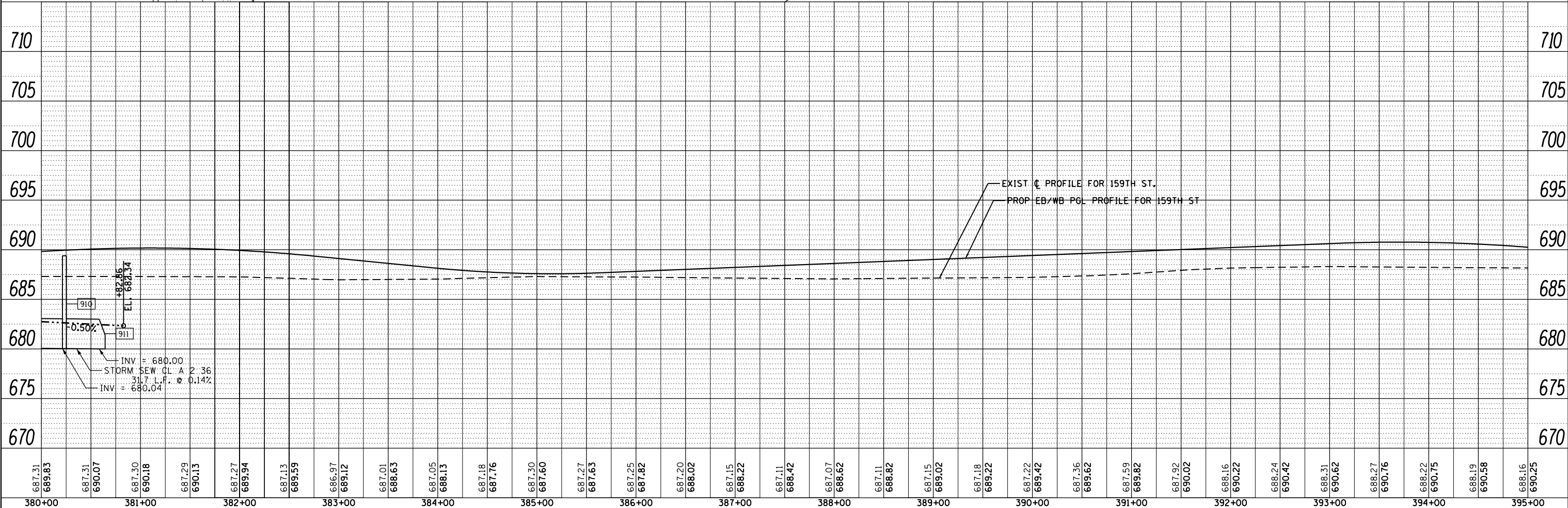
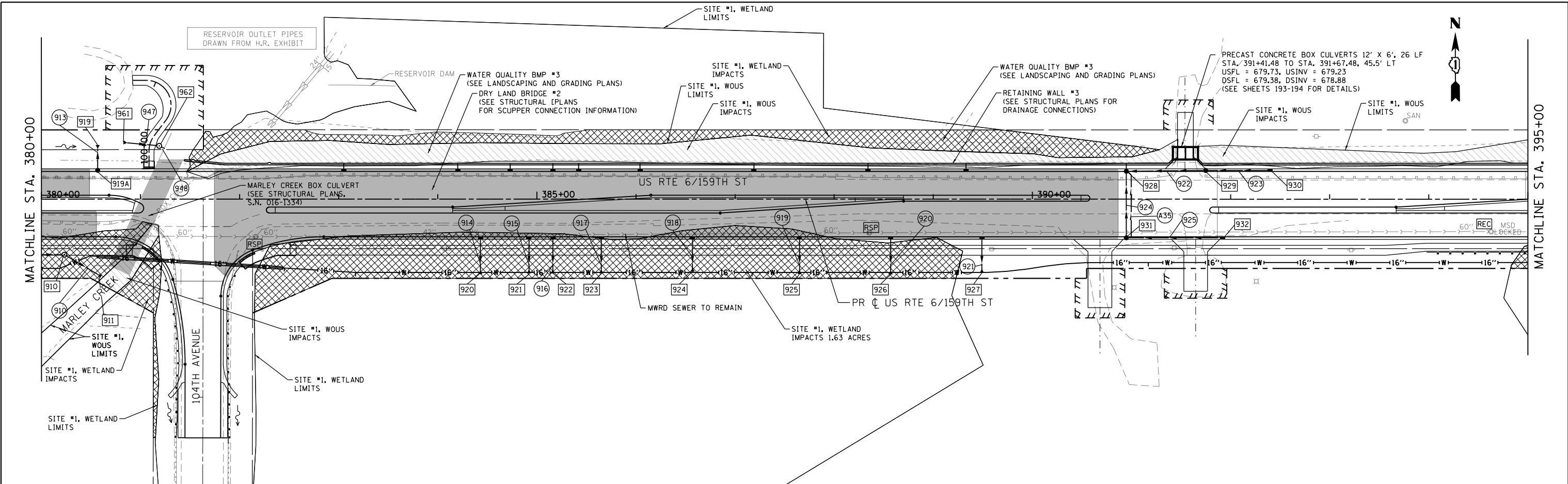
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CPAD	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 185
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -			CONTRACT NO. = 60L72				
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	

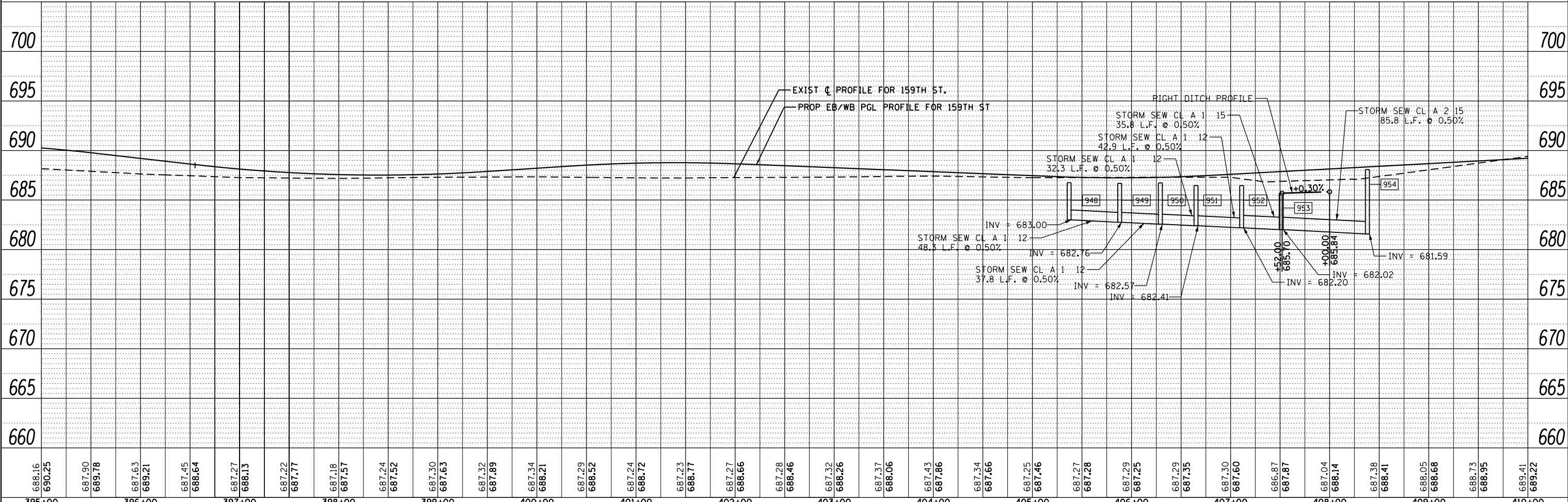
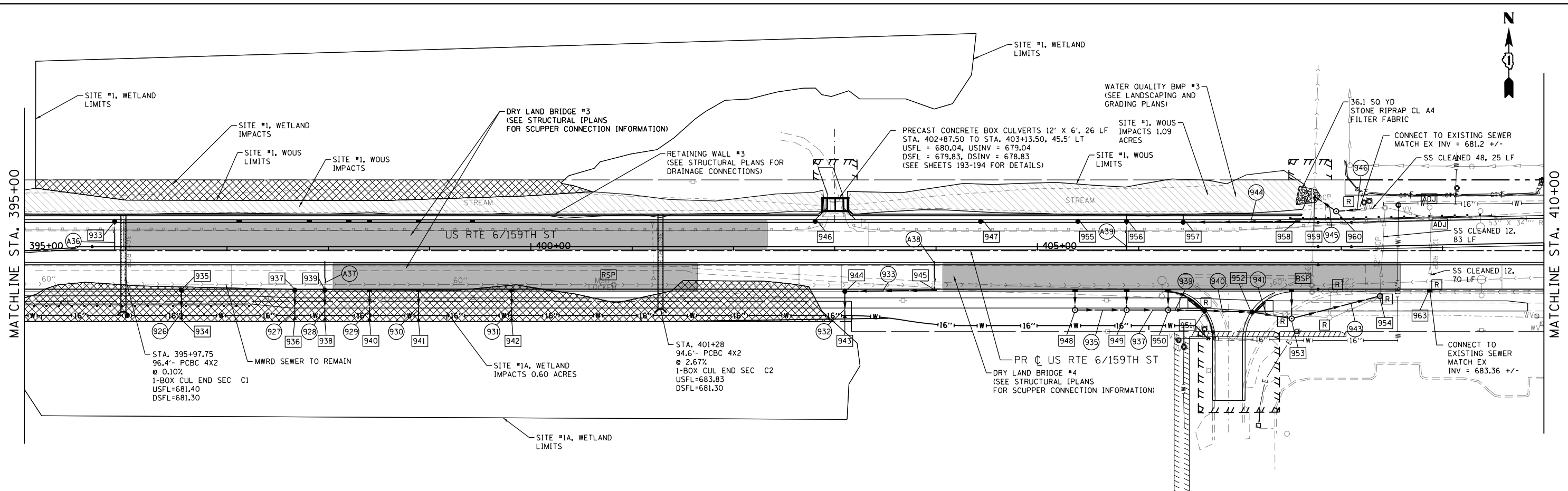
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET		F.A.P. RTE. 351	SECTION 2010-081-R	COUNTY COOK	TOTAL SHEETS 1045	SHEET NO. 187
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISIED -		DATE = 10/28/14	DATE = 10/28/14	STA. TO STA.	CONTRACT NO. 60L72		ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

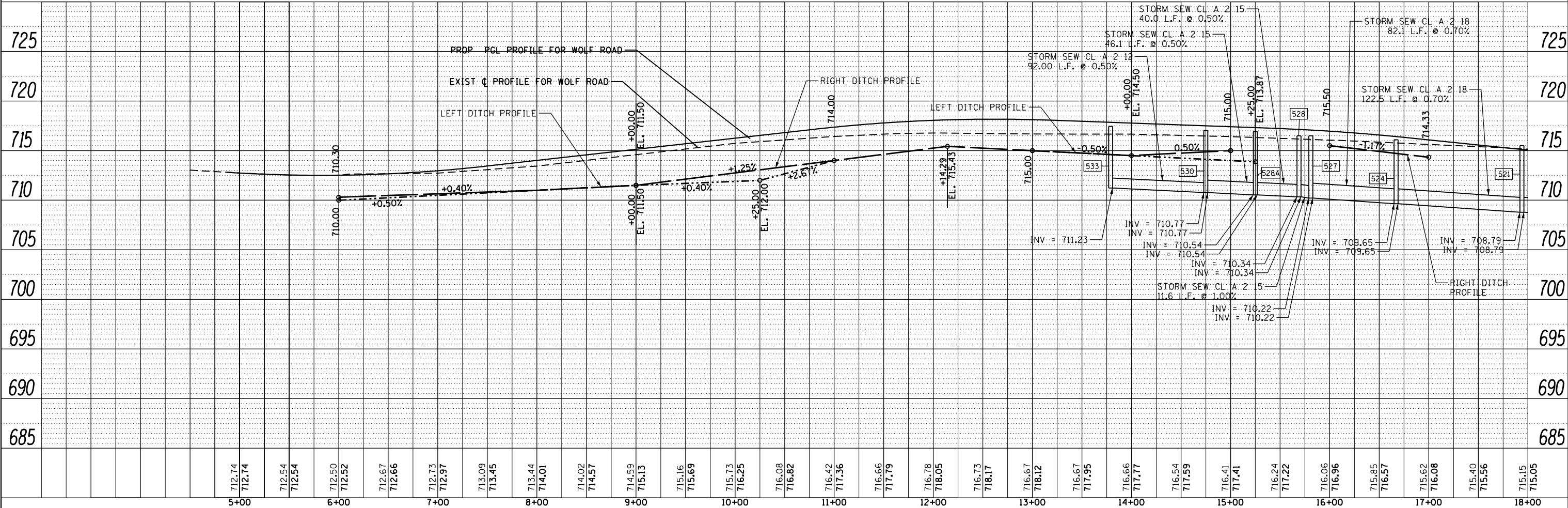
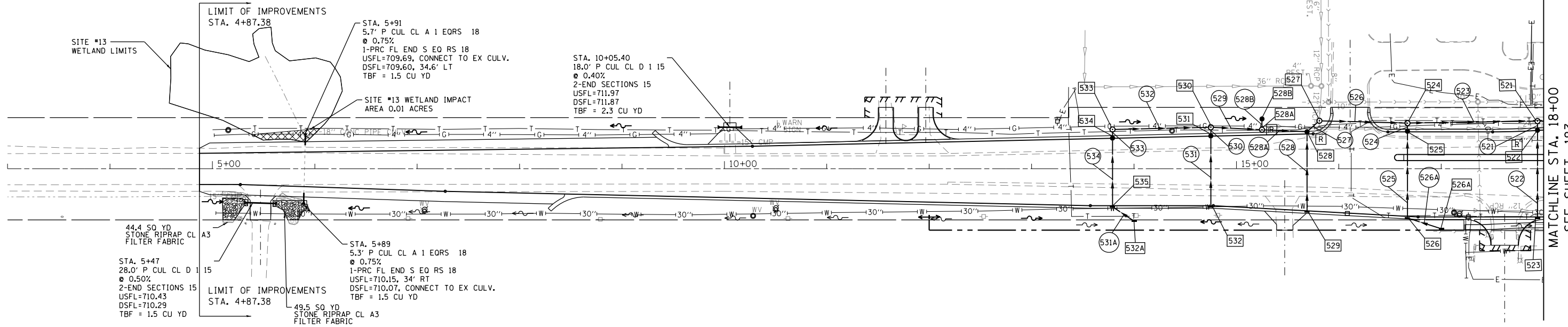
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 159TH STREET	F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 188	
MODELNAME =	PLOT SCALE = 1:1100	CHECKED - JWM	REVISED -			DATE = 10/28/14	REVISED -	CONTRACT NO. 60L72		ILLINOIS FED. AID PROJECT	
		DATE = 10/28/14	REVISED -					SHEET OF SHEETS		STA. TO STA.	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	

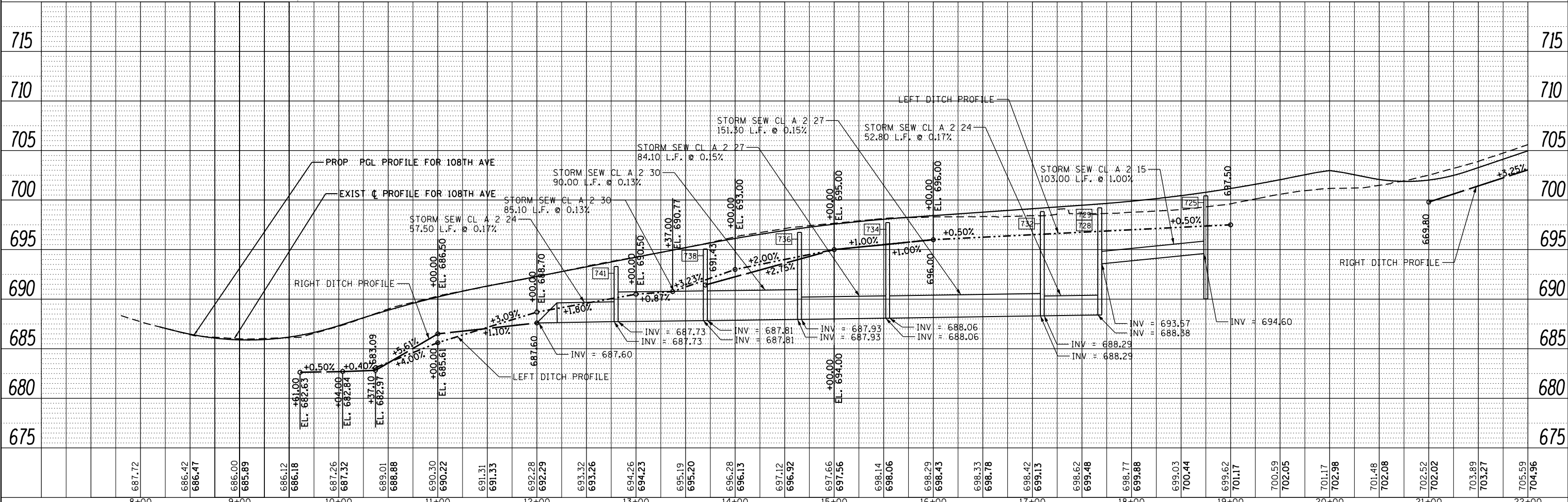
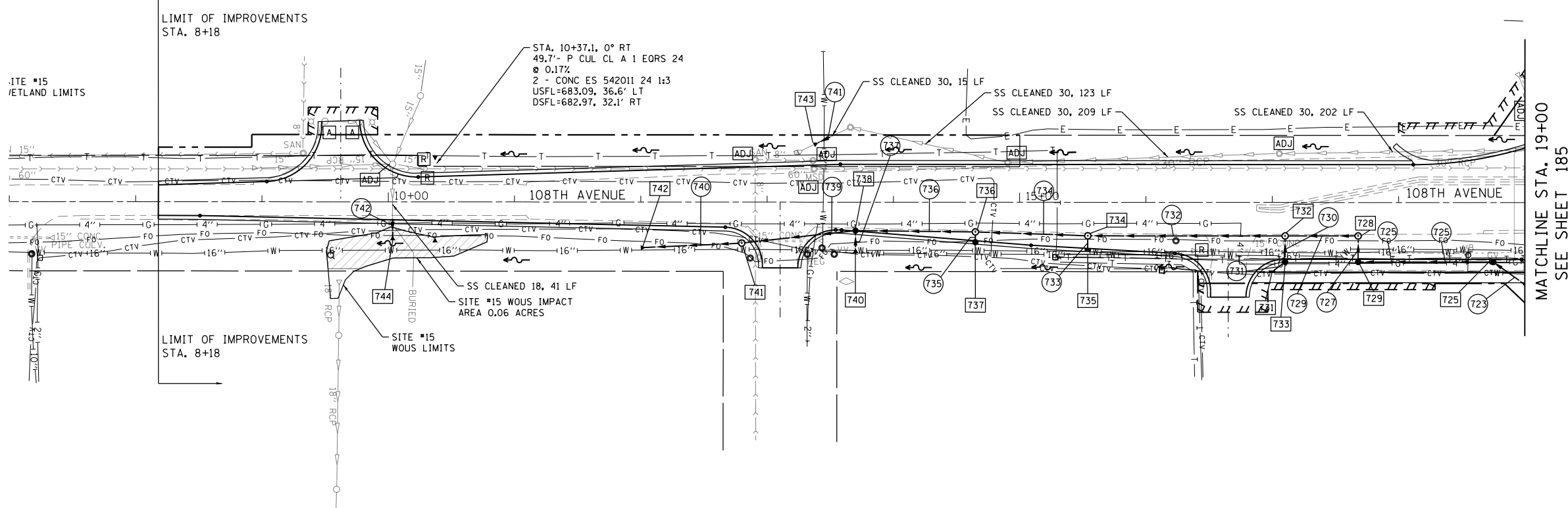
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CADD FILE NAME	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE		F.A.P. R.T.E. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 190
MODELNAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		WOLF RD		STA. TO STA.	CONTRACT NO. 60L72		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -		SHEET OF SHEETS						
					SHEET OF SHEETS						

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



FILE NAME = D:\60L72-sht-drain.dgn	USER NAME = rdonley	DESIGNED - DA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE 108TH AVENUE				F.A.P. RTE. = 351	SECTION = 2010-081-R	COUNTY = COOK	TOTAL SHEETS = 1045	SHEET NO. = 192
MODEL NAME =	PLOT SCALE = 1:1000	CHECKED - JWM	REVISED -		SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 60L72				
PLOT DATE = 10/22/2014	DATE = 10/28/14	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT								

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
100	159TH ST	281+13	41.0 LT	INLETS TA T24F&G	729.41				
101	159TH ST	281+13	40.1 RT	CB TA 4 DIA T24F&G	729.45	724.77	724.69		
102	159TH ST	281+13	58.6 RT	MAN TA 4 DIA T1F CL	729.35	724.60		723.50	
103	159TH ST	282+11	39.1 LT	INLETS TA T24F&G	729.06		724.89		
103A	159TH ST	282+11	9.4 LT	CB TA 4 DIA T24F&G	729.57	724.73	724.65		
103B	159TH ST	282+11	13.9 RT	CB TA 4 DIA T24F&G	729.54	724.53	724.45		
104	159TH ST	282+11	40.1 RT	CB TA 4 DIA T24F&G	729.06	724.32	724.24		
105	159TH ST	282+11	58.6 RT	MAN TA 4 DIA T1F CL	728.96	724.15		722.90	723.00
106	159TH ST	283+17	39.1 LT	INLETS TA T24F&G	728.63		724.46		
106A	159TH ST	283+17	11.9 LT	CB TA 4 DIA T24F&G	729.11	724.29	724.21		
106B	159TH ST	283+17	13.9 RT	CB TA 4 DIA T24F&G	729.11	724.06	723.98		
107	159TH ST	283+17	40.1 RT	CB TA 4 DIA T24F&G	728.63	723.82	723.74		
108	159TH ST	283+17	58.6 RT	MAN TA 4 DIA T1F CL	728.53	723.64		722.10	722.35
109	159TH ST	284+23	39.1 LT	INLETS TA T24F&G	728.21		724.04		
109A	159TH ST	284+23	11.9 LT	CB TA 4 DIA T24F&G	728.69	723.86	723.78		
109B	159TH ST	284+23	13.9 RT	CB TA 4 DIA T24F&G	728.69	723.62	723.54		
110	159TH ST	284+23	40.1 RT	CB TA 4 DIA T24F&G	728.21	723.37	723.29		
111	159TH ST	284+23	58.6 RT	MAN TA 4 DIA T1F CL	728.11	723.18		721.35	721.60
112	159TH ST	285+29	39.1 LT	INLETS TA T24F&G	727.79		723.62		
112A	159TH ST	285+29	11.9 LT	CB TA 4 DIA T24F&G	728.27	723.45	723.37		
112B	159TH ST	285+29	12.2 RT	CB TA 4 DIA T24F&G	728.29	723.23	723.15		
113	159TH ST	285+29	40.1 RT	CB TA 4 DIA T24F&G	727.79	722.98	722.90		
114	159TH ST	285+29	58.6 RT	MAN TA 4 DIA T1F CL	727.69	722.80		720.90	721.00
115	159TH ST	286+35	39.1 LT	INLETS TA T24F&G	727.31		723.14		
115A	159TH ST	286+35	11.9 LT	CB TA 4 DIA T24F&G	727.79	722.99	722.91		
115B	159TH ST	286+35	5.9 RT	CB TA 4 DIA T24F&G	727.79	722.83	722.75		
116	159TH ST	286+35	40.1 RT	CB TA 4 DIA T24F&G	727.31	722.57	722.49		
117	159TH ST	286+35	58.6 RT	MAN TA 4 DIA T1F CL	727.21	722.40		719.55	720.55
118	159TH ST	287+72	39.1 LT	INLETS TA T24F&G	725.88		721.71		
118A	159TH ST	287+72	11.9 LT	CB TA 4 DIA T24F&G	726.36	721.56	721.48		
119	159TH ST	287+72	40.1 RT	CB TA 4 DIA T24F&G	725.88	721.19	721.11		
120	159TH ST	287+72	58.6 RT	MAN TA 4 DIA T1F CL	725.78	721.02		718.10	719.10
121				NOT USED					
122	159TH ST	289+09	39.1 LT	INLETS TA T24F&G	724.07		719.90		
123	159TH ST	289+09	42.3 RT	CB TA 4 DIA T24F&G	724.03	719.43	719.35		
124	159TH ST	289+09	59.1 RT	MAN TA 4 DIA T1F CL	724.91	719.27		716.65	717.65
125	159TH ST	290+46	39.1 LT	INLETS TA T24F&G	722.26		718.09		
126	159TH ST	290+46	40.1 RT	CB TA 4 DIA T24F&G	722.26	717.63	717.55		
127	159TH ST	290+46	59.1 RT	MAN TA 5 DIA T1F CL	722.18	717.46		715.70	716.20
128	159TH ST	291+15.30	59.1 RT	MAN TA 5 DIA T1F CL	722.23	711.10	711.20	714.90	715.06
129	159TH ST	291+15.30	73.4 RT	CB TA 5 DIA T8G	716.54	711.29			
130	159TH ST	291+83	39.1 LT	INLETS TA T24F&G	720.21		716.04		
130A	159TH ST	291+83	13.9 RT	CB TA 4 DIA T24F&G	720.69	715.74	715.66		
131	159TH ST	291+83	40.1 RT	CB TA 4 DIA T24F&G	720.21	715.53	715.45		
132	159TH ST	291+83	58.6 RT	MAN TA 4 DIA T1F CL	721.13	715.36			715.28
133	159TH ST	291+15.30	59.1 LT	MAN TA 5 DIA T1F CL	722.23	699.71	709.97		
134	159TH ST	291+15.30	111.3 LT	PRC FLAR END SEC 24	-		699.25		

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
200	159TH ST	293+20	39.1 LT	INLETS TA T24F&G	717.42				
200A	159TH ST	293+20	7.8 LT	CB TA 4 DIA T24F&G	717.96	713.11	713.03		
200B	159TH ST	293+20	13.9 RT	CB TA 4 DIA T24F&G	717.90	712.94	712.86		
201	159TH ST	293+20	40.1 RT	CB TA 4 DIA T24F&G	717.42	712.75	712.67		
202	159TH ST	293+20	58.6 RT	MAN TA 4 DIA T1F CL	718.26	712.53		708.10	
203	159TH ST	295+70	39.1 LT	INLETS TA T24F&G	710.38		706.21		
203A	159TH ST	295+70	11.9 LT	CB TA 4 DIA T24F&G	710.86	706.09	706.01		
203B	159TH ST	295+70	13.9 RT	CB TA 4 DIA T24F&G	710.86	705.90	705.82		
204	159TH ST	295+70	40.1 RT	CB TA 4 DIA T24F&G	710.38	705.71	705.63		
205	159TH ST	295+70	58.6 RT	MAN TA 4 DIA T1F CL	711.22	705.49		697.83	707.00
206	159TH ST	298+20	39.1 LT	INLETS TA T24F&G	701.73		697.56		
206A	159TH ST	298+20	11.9 LT	CB TA 4 DIA T24F&G	702.21	697.43	697.35		
206B	159TH ST	298+20	13.9 RT	CB TA 4 DIA T24F&G	702.21	697.24	697.16		
207	159TH ST	298+20	40.1 RT	CB TA 4 DIA T24F&G	701.73	697.05	696.97		
208	159TH ST	298+20	58.6 RT	MAN TA 4 DIA T1F CL	701.65	696.83		691.63	697.00
209	159TH ST	300+40	39.1 LT	INLETS TA T24F&G	696.60		692.43		
209A	159TH ST	300+40	11.9 LT	CB TA 4 DIA T24F&G	697.08	692.31	692.23		
209B	159TH ST	300+40	13.9 RT	CB TA 4 DIA T24F&G	697.08	692.12	692.04		
210	159TH ST	300+40	40.1 RT	CB TA 4 DIA T24F&G	696.60	691.93	691.85		
211	159TH ST	300+40	58.6 RT	MAN TA 4 DIA T1F CL	696.52	691.71		689.24	691.16
212	159TH ST	301+75	39.1 LT	INLETS TA T24F&G	695.06		690.89		
212A	159TH ST	301+75	11.9 LT	CB TA 4 DIA T24F&G	695.54	690.77	690.69		
212B	159TH ST	301+75	10.8 RT	CB TA 4 DIA T24F&G	695.54	690.60	690.52		
213	159TH ST	301+75	40.1 RT	CB TA 4 DIA T24F&G	695.06	690.39	690.31		
214	159TH ST	301+75	58.6 RT	MAN TA 4 DIA T1F CL	694.98	690.17		688.91	688.91
215	159TH ST	302+45	39.1 LT	INLETS TA T24F&G	694.75			690.58	
216	159TH ST	303+00	39.1 LT	INLETS TA T24F&G	694.74				690.57
217	159TH ST	302+75	38.6 LT	INLETS TB T24F&G	694.72		690.36	690.46	690.44
217A	159TH ST	302+75	11.9 LT	CB TA 4 DIA T24F&G	695.20	690.24	690.16		
218	159TH ST	302+45	39.1 RT	INLETS TA T24F&G	694.75			690.58	
219	159TH ST	303+00	39.1 RT	INLETS TA T24F&G	694.74				690.57
220	159TH ST	302+75	41.1 RT	CB TA 4 DIA T8F&G	694.72	689.92	689.84	690.35	690.31
221	159TH ST	302+75	58.6 RT	MAN TA 4 DIA T1F CL	694.64	689.55			689.47
222	159TH ST	302+26	59.1 RT	MAN TA 5 DIA T1F CL	694.72		688.04	689.03	688.79
223	159TH ST	302+26	78.7 RT	PRC FLAR END SEC 24	-	688.00			

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
101	STORM SEW CL A 2	12	14.4	0.60	4.8
102	STORM SEW CL A 2	12	94.0	0.53	60.2
103	STORM SEW CL A 2	12	22.4	0.60	4.7
103A	STORM SEW CL A 2	12	19.2	0.60	0.5
103B	STORM SEW CL A 2	12	26.8	0.60	6.8
104	STORM SEW CL A 2	12	14.4	0.60	4.9
105	STORM SEW CL A 2	12	102.0	0.54	75.8
106	STORM SEW CL A 2	12	22.3	0.70	4.7
106A	STORM SEW CL A 2	12	21.7	0.70	0.5
106B	STORM SEW CL A 2	12	24.3	0.70	6.3
107	STORM SEW CL A 2	12	14.4	0.70	5.0
108	STORM SEW CL A 2	15	102.0	0.49	83.7
109	STORM SEW CL A 2	12	22.3	0.75	4.7
109A	STORM SEW CL A 2	12	21.7	0.75	0.5
109B	STORM SEW CL A 2	12	24.3	0.75	6.4
110	STORM SEW CL A 2	12	14.4	0.75	5.1
111	STORM SEW CL A 2	18	102.0	0.34	90.1
112	STORM SEW CL A 2	12	23.9	0.70	5.0
112A	STORM SEW CL A 2	12	20.1	0.70	0.5
112B	STORM SEW CL A 2	12	24.3	0.70	6.3
113	STORM SEW CL A 2	12	14.4	0.70	5.0
114	STORM SEW CL A 2	18	102.0	0.34	90.1
115	STORM SEW CL A 2	12	30.3	0.60	6.3
115A	STORM SEW CL A 2	12	13.7	0.60	0.5
115B	STORM SEW CL A 2	12	24.3	0.60	6.1
116	STORM SEW CL A 2	12	14.4	0.60	4.9
117	STORM SEW CL A 2	18	133.0	0.34	128.3
118	STORM SEW CL A 2	12	48.0	0.60	8.4
118A	STORM SEW CL A 2	12	24.3	0.60	5.8
119	STORM SEW CL A 2	12	14.4	0.60	4.8
120	STORM SEW CL A 2	18	133.0	0.34	135.5
121					
122	STORM SEW CL A 2	12	78.4	0.60	18.1
123	STORM SEW CL A 2	12	12.8	0.60	7.5
124	STORM SEW CL A 2	18	133.0	0.34	127.1
125	STORM SEW CL A 2	12	76.3	0.60	15.9
126	STORM SEW CL A 2	12	14.4	0.60	4.7
127	STORM SEW CL A 2	24	64.0	1.00	59.3
128	STORM SEW CL A 2	24	9.3	1.00	0.0
129	STORM SEW CL A 2	12	63.5	0.60	52.0
130	STORM SEW CL A 2	12	22.3	0.60	7.4
130A	STORM SEW CL A 2	12	50.0	0.60	9.1
131	STORM SEW CL A 2	12	14.4	0.60	8.7
132	STORM SEW CL A 2	24	113.2	1.00	201.1
133	STORM SEW CL A 5	24	45.7	1.00	0.0

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
200A	STORM SEW CL A 2	12	17.7	0.50%	0.5
200B	STORM SEW CL A 2	12	22.3	0.50%	5.5
201	STORM SEW CL A 2	12	14.4	1.00%	7.5
202	STORM SEW CL A 2	12	246.0	0.45%	225.0
203	STORM SEW CL A 2	12	24.3	0.50%	5.0
203A	STORM SEW CL A 2	12	21.7	0.50%	0.5
203B	STORM SEW CL A 2	12	22.3	0.50%	5.5
204	STORM SEW CL A 2	12	14.4	1.00%	7.5
205	STORM SEW CL A 2	15	246.0	0.34%	309.3
206	STORM SEW CL A 2	12	24.3	0.50%	

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION				
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST	
300	159TH ST	304+10	39.1 LT	INLETS TA T24F&G	695.37		691.20			
300A	159TH ST	304+04	11.9 LT	CB TA 4 DIA T24F&G	695.79	690.95	690.87			
301	159TH ST	303+91	40.1 RT	CB TA 4 DIA T24F&G	695.19	690.37	690.29			
302	159TH ST	303+91	60.1 RT	MAN TA 7 DIA T1F CL	695.11	690.15	688.01	688.02		
302A	159TH ST	303+85.08	67.0 RT	MH TA 6D W/2 T1FCL RP	695.11	688.00	688.00			
303	159TH ST	303+76	78.5 RT	PRC FLAR END SEC 36	-	687.98				
304	159TH ST	305+55	40.1 RT	CB TA 4 DIA T24F&G	697.84	693.08	693.00			
305	159TH ST	305+55	60.1 RT	MAN TA 7 DIA T1F CL	697.76	692.93		688.18	688.18	
306	159TH ST	306+16	61.2 LT	INLETS TA T8G	697.91		693.74			
307	159TH ST	306+16	38.6 LT	INLETS TB T24F&G	699.46	693.64	693.56			
308	159TH ST	307+78	39.1 LT	INLETS TA T24F&G	705.38		701.21			
308A	159TH ST	307+78	13.9 LT	CB TA 4 DIA T24F&G	705.86	700.96	700.88			
309	159TH ST	307+78	40.1 RT	CB TA 4 DIA T24F&G	705.38	700.77	700.69			
310	159TH ST	307+78	59.6 RT	MAN TA 6 DIA T1F CL	705.30	700.62		699.43	688.40	
311	159TH ST	309+45	60.8 LT	INLETS TB T8G	712.00		707.71		707.77	
311A	159TH ST	308+88	65.4 LT	INLETS TA T24F&G	712.22			708.05		
312	159TH ST	309+45	39.1 LT	INLETS TB T24F&G	712.50	707.61	707.55			
312A	159TH ST	309+45	7.8 LT	CB TA 4 DIA T24F&G	713.04	707.41	707.33			
312B	159TH ST	309+45	13.9 LT	CB TA 4 DIA T24F&G	712.98	707.24	707.16			
313	159TH ST	309+45	40.1 RT	CB TA 4 DIA T24F&G	712.50	707.05	706.97			
314	159TH ST	309+45	59.1 RT	MAN TA 5 DIA T1F CL	712.42	706.89		706.25	699.71	
315	159TH ST	311+21	39.1 LT	INLETS TA T24F&G	717.82		713.65			
315A	159TH ST	311+21	11.9 LT	CB TA 4 DIA T24F&G	718.30	713.53	713.45			
315B	159TH ST	311+21	13.9 LT	CB TA 4 DIA T24F&G	718.30	713.34	713.26			
316	159TH ST	311+21	40.1 RT	CB TA 4 DIA T24F&G	717.82	713.15	713.07			
317	159TH ST	311+21	58.6 RT	MAN TA 4 DIA T1F CL	717.74	713.00		706.70	706.70	
318	159TH ST	313+15	39.1 LT	INLETS TA T24F&G	720.18		716.01			
318A	159TH ST	313+15	11.9 LT	CB TA 4 DIA T24F&G	720.66	715.89	715.81			
318B	159TH ST	313+15	13.9 LT	CB TA 4 DIA T24F&G	720.66	715.70	715.62			
319	159TH ST	313+15	40.1 RT	CB TA 4 DIA T24F&G	720.18	715.51	715.43			
320	159TH ST	313+15	58.6 RT	MAN TA 4 DIA T1F CL	720.10	715.36		707.18	707.18	
321	159TH ST	314+31	39.1 LT	INLETS TA T24F&G	720.65		716.48			
321A	159TH ST	314+31	11.9 LT	CB TA 4 DIA T24F&G	721.13	716.36	716.28			
321B	159TH ST	314+31	13.9 LT	CB TA 4 DIA T24F&G	721.13	716.17	716.09			
322	159TH ST	314+31	38.1 RT	CB TA 4 DIA T24F&G	720.65	715.98	715.90			
323	159TH ST	314+31	46.1 RT	MAN TA 4 DIA T1F CL	720.85	715.89		712.45	707.46	
324	159TH ST	315+05	40.6 LT	MAN TA 5 DIA T24F&G	720.96	712.94	713.04	716.03		
324A	159TH ST	315+05	77.4 LT	PRC FLAR END SEC 24	-		712.42			
325	159TH ST	315+05	59.1 RT	MAN TA 5 DIA T1F CL	720.88	714.46	714.62	713.10	712.63	
325A	159TH ST	315+05	73.9 RT	PRC FLAR END SEC 24	-	714.80				
326	159TH ST	315+37	39.1 RT	INLETS TA T24F&G	721.09		716.92			
327	159TH ST	315+37	58.6 RT	MAN TA 4 DIA T1F CL	720.91	716.75		713.24	713.24	
328	159TH ST	316+25	38.1 LT	CB TA 4 DIA T24F&G	721.45			717.15	717.07	
329	159TH ST	316+38	39.1 RT	INLETS TA T24F&G	721.50		717.33			
330	159TH ST	316+38	58.6 RT	MAN TA 4 DIA T1F CL	721.32	717.16		713.72	713.72	
331	159TH ST	316+90	38.6 LT	INLETS TB T24F&G	721.72			717.52	717.46	
332	159TH ST	317+43	39.1 LT	INLETS TA T24F&G	721.94				717.77	
333	159TH ST	317+43	39.1 RT	CB TC T24F&G	721.94		717.77			
334	159TH ST	317+43	58.6 RT	MAN TA 4 DIA T1F CL	722.78	717.60			714.22	

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION				
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST	
400	159TH ST	320+05	39.1 RT	INLETS TA T24F&G	721.94	717.87				
401	159TH ST	320+05	38.1 LT	CB TA 4 DIA T24F&G	721.94	717.42	717.50			
402	159TH ST	320+05	47.1 LT	MAN TA 5 DIA T1F CL	722.12		717.33	713.46		
403	159TH ST	321+13	39.1 RT	INLETS TA T24F&G	721.13	717.26				
403A	159TH ST	321+13	11.9 RT	CB TA 4 DIA T24F&G	721.61	717.06	717.14			
404	159TH ST	321+13	38.1 LT	CB TA 4 DIA T24F&G	721.13	716.75	716.83			
405	159TH ST	321+13	47.1 LT	MAN TA 5 DIA T1F CL	721.31		716.66	713.27	713.27	
406	159TH ST	321+81	47.1 LT	MAN TA 5 DIA T1F CL	720.77	713.16	715.68	713.16	713.16	
406A	159TH ST	321+81	59.6 LT	MH TA 6D W/2 T1FCL RP	720.51	712.12	713.15			
407	159TH ST	321+81	38.1 LT	CB TA 4 DIA T24F&G	720.59	715.77	715.85			
408	159TH ST	322+03	39.6 RT	INLETS TB T24F&G	720.42	716.31		716.37		
408A	159TH ST	322+03	11.9 RT	CB TA 4 DIA T24F&G	720.90	716.11	716.19			
409	159TH ST	322+00	84.3 LT	PRC FLAR END SEC 24	-		711.85			
410	159TH ST	322+80	39.1 RT	INLETS TA T24F&G	719.81				716.74	
411	159TH ST	323+08	47.1 LT	MAN TA 5 DIA T1F CL	719.77		715.33		713.38	
412	159TH ST	323+08	39.1 LT	CB TC T24F&G	719.59	715.42				

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
300A	STORM SEW CL A 1	12	49.6	1.00%	10.3
301	STORM SEW CL A 2	12	14.4	1.00%	4.2
302	STORM SEW CL A 2	36	4.0	0.14%	0.0
302A	STORM SEW CL A 2	36	13.5	0.14%	0.0
303	STORM SEW CL A 1	48	157.5	0.10%	198.0
304	STORM SEW CL A 2	12	14.4	0.50%	4.1
305	STORM SEW CL A 3	42	216.5	0.10%	562.8
306	STORM SEW CL A 1	12	20.0	0.50%	5.9
307	STORM SEW CL A 2	12	96.1	0.50%	45.0
308	STORM SEW CL A 2	12	50.0	0.50%	8.9
308A	STORM SEW CL A 2	12	22.3	0.50%	5.4
309	STORM SEW CL A 2	15	14.4	0.50%	2.7
310	STORM SEW CL A 2	24	161.0	0.17%	230.0
311	STORM SEW CL A 2	12	19.1	0.50%	5.4
311A	STORM SEW CL A 1	12	55.2	0.50%	4.9
312	STORM SEW CL A 2	12	27.3	0.50%	12.6
312A	STORM SEW CL A 2	12	17.7	0.50%	1.1
312B	STORM SEW CL A 2	12	22.3	0.50%	11.5
313	STORM SEW CL A 2	15	14.4	0.53%	8.2
314	STORM SEW CL A 2	18	171.5	0.26%	210.2
315	STORM SEW CL A 1	12	24.3	0.50%	5.0
315A	STORM SEW CL A 1	12	21.7	0.50%	0.5
315B	STORM SEW CL A 1	12	21.3	0.50%	5.3
316	STORM SEW CL A 1	12	14.4	0.50%	4.1
317	STORM SEW CL A 3	18	190.0	0.25%	349.7
318	STORM SEW CL A 1	12	24.3	0.50%	5.0
318A	STORM SEW CL A 1	12	21.7	0.50%	0.5
318B	STORM SEW CL A 1	12	21.3	0.50%	5.3
319	STORM SEW CL A 1	12	14.4	0.47%	4.1
320	STORM SEW CL A 3	18	112.7	0.25%	231.5
321	STORM SEW CL A 1	12	24.3	0.50%	5.0
321A	STORM SEW CL A 1	12	21.7	0.50%	0.5
321B	SS 2 WAT MN	12	21.3	0.50%	5.3
322	STORM SEW CL A 1	12	3.3	0.45%	0.4
323	STORM SEW CL A 2	18	70.7	0.26%	83.1
324	STORM SEW CL A 1	12	115.5	0.90%	26.2
324A	STORM SEW CL A 2	24	28.3	1.50%	16.6
325	STORM SEW CL A 2	12	27.5	0.50%	27.5
325A	STORM SEW CL A 2	24	6.2	1.50%	0.0
326	STORM SEW CL A 2	12	16.6	1.00%	4.0
326A	STORM SEW CL A 2	24	73.2	1.50%	59.3
326A	SS 2 WAT MN	24	21.5	1.50%	17.4
327	STORM SEW CL A 2	12	97.0	0.50%	95.6
328	STORM SEW CL A 1	12	61.5	0.50%	11.5
329	STORM SEW CL A 1	12	16.6	1.00%	4.0
330	STORM SEW CL A 2	12	101.0	0.50%	106.8
331	STORM SEW CL A 1	12	50.5	0.50%	9.2
332	STORM SEW CL A 1	12	16.6	1.00%	4.7

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
401	STORM SEW CL A 2	12	4.4	2.00	1.0
402	STORM SEW CL A 2	24	103.0	0.18	127.4
403	SS 2 WAT MN	12	24.3	0.50	4.3
403A	STORM SEW CL A 2	12	46.0	0.50	9.3
404	STORM SEW CL A 2	12	4.4	2.00	0.9
405	STORM SEW CL A 2	24	63.0	0.18	71.2
406	STORM SEW CL A 2	18	22.5	1.20	0.0
406A	STORM SEW CL A 2	24	7.0	0.18	7.4
407	STORM SEW CL A 2	12	4.4	2.00	1.1
408	SS 2 WAT MN	12	24.3	0.50	4.9
408A	STORM SEW CL A 2	12	52.6	0.50	10.9
409	STORM SEW CL A 2	24	122.0	0.18	103.7
410	SS 2 WAT MN	12	74.5	0.50	8.3
411	STORM SEW CL A 2	12	4.4	2.00	1.3

STORM SEWER CLEANING SCHEDULE

PAY ITEM	ALIGN.	BEG. STA.	BEG. O/S	END STA.	END O/S	LENGTH (FOOT)
SS CLEANED 36	159TH ST	336+36.72	52 LT	338+82.50	53.8 LT	245.8
SS CLEANED 36	159TH ST	338+87.50	53.8 LT	340+95.32	55.4 LT	207.8
SS CLEANED 18	159TH ST	354+80.12	87.6 RT	354+86.07	40.6 LT	47.4
SS CLEANED 30	159TH ST	354+80.81	87.6 RT	354+87.21	37.8 LT	125.6
SS CLEANED 18	159TH ST	358+78.70	43.3 LT	360+33.87	43 LT	155.2
SS CLEANED 18	159TH ST	360+37.54	43.1 LT	361+58.26	44.1 LT	120.7
SS CLEANED 18	159TH ST	361+62.18	44.1 LT	362+82.59	45.4 LT	120.4
SS CLEANED 18	159TH ST	362+86.59	45.6 LT	363+63.60	45.4 LT	77
SS CLEANED 18	159TH ST	363+68.59	45.5 LT	364+17.89	45.9 LT	49.3
SS CLEANED 18	159TH ST	364+21.88	45.9 LT	364+42.00	45.5 LT	

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
500	159TH ST	323+70	39.1 RT	INLETS TA T24F&G	719.10			715.93	
501	159TH ST	324+21	39.6 RT	INLETS TB T24F&G	718.69	715.39			715.45
502	159TH ST	324+21	38.1 LT	CB TA 4 DIA T24F&G	718.69	714.94	715.02		
503	159TH ST	324+21	46.6 LT	MAN TA 4 DIA T1F CL	718.83		714.90	713.00	
504	159TH ST	325+15	44.7 RT	INLETS TA T24F&G	717.81	713.64			
505	159TH ST	325+15	38.1 LT	CB TA 4 DIA T24F&G	717.95	713.16	713.24		
506	159TH ST	325+15	46.6 LT	MAN TA 4 DIA T1F CL	718.09		713.12	712.47	712.55
507	159TH ST	325+76	48.3 RT	INLETS TA T24F&G	717.25	712.08			
508	159TH ST	325+76	38.1 LT	CB TA 4 DIA T24F&G	717.48	711.58	711.66		
509	159TH ST	325+76	46.6 LT	MAN TA 4 DIA T1F CL	717.62	711.76	711.54	710.41	712.28
510	159TH ST	325+66.6	66.7 LT	CB TC T8G	714.45		711.95		
511	159TH ST	326+37	51.0 RT	INLETS TA T24F&G	716.68			712.51	
512	159TH ST	326+85	50.1 RT	CB TA 4 DIA T24F&G	716.30	711.11		712.06	711.19
513	159TH ST	326+85	38.1 LT	CB TA 4 DIA T24F&G	716.46	710.61	710.69		
514	159TH ST	326+85	46.6 LT	MAN TA 4 DIA T1F CL	716.82		710.57	709.81	709.89
515	159TH ST	327+55	51.4 RT	INLETS TA T24F&G	715.69				711.52
516	159TH ST	327+88	48.0 LT	CB TA 4 DIA T24F&G	715.05		711.32	709.31	709.31
517	159TH ST	327+94	8.8 LT	INLETS TA T11F&G	716.22	712.05			
518	WOLF RD	18+93	58.1 LT	CB TA 5 DIA T24F&G	713.84	708.19	708.19	708.60	
519	WOLF RD	18+74	50.9 LT	CB TA 5 DIA T24F&G	713.56	708.30	708.30		
520	WOLF RD	18+55	47.2 LT	CB TA 5 DIA T24F&G	713.83	708.40	708.40		
521	WOLF RD	17+94	46.6 LT	MAN TA 5 DIA T1F CL	715.50	708.79	708.79	709.72	
522	WOLF RD	17+94	37.6 LT	CB TA 4 DIA T24F&G	714.64		709.82	709.74	
523	WOLF RD	17+94	48.1 RT	INLETS TA T24F&G	714.40				710.23
524	WOLF RD	16+67	44.6 LT	MAN TA 4 DIA T1F CL	716.60	709.65	709.65	709.65	
525	WOLF RD	16+67	36.6 LT	CB TA 4 DIA T24F&G	715.98			709.77	709.69
526	WOLF RD	16+67	48.1 RT	INLETS TB T24F&G	715.72	710.18			710.18
526A	WOLF RD	17+00	58.6 RT	INLETS TA T8G	714.33		710.34		
527	WOLF RD	15+81	46.9 LT	MAN TA 4 DIA T1F CL	717.30	710.22	710.22		
528	WOLF RD	15+69	36.2 LT	CB TA 4 DIA T24F&G	716.46	710.34	710.34	711.40	714.62
528A	WOLF RD	15+25	38.1 LT	MAN TA 4 DIA T1F CL	716.93	710.54	710.54		709.66
528B	WOLF RD	15+25	48.7 LT	CB TC T8G	713.87			709.70	
529	WOLF RD	15+69	42.1 RT	INLETS TA T24F&G	716.32				712.15
530	WOLF RD	14+75	40.5 LT	MAN TA 4 DIA T1F CL	717.04	710.77	710.77	711.83	
531	WOLF RD	14+75	32.1 LT	CB TA 4 DIA T24F&G	716.86			711.95	711.87
532	WOLF RD	14+75	38.2 RT	INLETS TA T24F&G	716.78				712.61
532A	WOLF RD	14+00	51.0 RT	INLETS TA T8G	714.50				712.25
533	WOLF RD	13+79	38.4 LT	MAN TA 4 DIA T1F CL	717.44	711.23		711.31	
534	WOLF RD	13+79	30.0 LT	CB TA 4 DIA T24F&G	717.25			711.43	711.35
535	WOLF RD	13+79	37.1 RT	INLETS TB T24F&G	717.13			712.13	712.07
536	WOLF RD	19+11	52.2 RT	INLETS TA T24F&G	713.56		709.39		
537	WOLF RD	18+75	48.1 RT	INLETS TA T24F&G	713.60	709.43			
537A	WOLF RD	18+75	8.8 LT	INLETS TA T11F&G	714.31	710.14			
537B	WOLF RD	18+94	9.8 LT	CB TA 4 DIA T11F&G	714.25		709.98	708.90	708.82
538	WOLF RD	19+41	49.6 LT	MAN TA 5 DIA T1F CL	714.81	707.85	707.85		
539	159TH ST	328+44.7	48.0 LT	MAN TA 5 DIA T1F CL	713.98	706.89	706.89		709.05
540	WOLF RD	18+94	48.7 LT	CB TA 4 DIA T24F&G	713.53	709.25	709.29		709.17
541	WOLF RD	21+02	50.6 LT	INLETS TA T24F&G	713.46			709.29	
541A	WOLF RD	21+02	29.0 LT	MAN TA 5 DIA T1F CL	713.68	706.36	706.36	708.35	709.20
542	WOLF RD	21+02	58.2 RT	CB TC T24F&G	712.94				708.77
543	WOLF RD	21+89	49.6 LT	CB TA 5 DIA T24F&G	712.00	705.52	705.52	707.20	
544				NOT USED					
545	WOLF RD	21+89	39.3 RT	INLETS TA T24F&G	712.22				708.05
546	WOLF RD	22+76	49.6 LT	CB TA 5 DIA T24F&G	711.37	704.70	704.70	706.32	
547	WOLF RD	22+76	8.8 RT	INLETS TB T11F&G	712.08			706.82	706.76
548	WOLF RD	22+76	36.6 RT	INLETS TB T24F&G	711.65			707.13	707.07
549	WOLF RD	22+60	53.7 RT	INLETS TA T8G	711.50				707.33
550	WOLF RD	23+92	49.6 LT	CB TA 5 DIA T24F&G	710.38	703.59	703.59	706.18	705.68
551	WOLF RD	23+92	34.4 RT	INLETS TA T24F&G	710.75				706.58
552	WOLF RD	25+08	44.6 LT	CB TA 4 DIA T24F&G	709.80	702.48	702.48	705.51	
553	WOLF RD	26+24	44.6 LT	MAN TA 5 DIA T1F CL	709.55	701.37	701.37	704.76	
554	WOLF RD	26+84.4	30.5 LT	MAN TA 6 DIA T1F CL	708.99	700.85	700.85	701.00	702.64
555	WOLF RD	26+84	43.5 LT	CB TA 4 DIA T1F CL	708.55	704.29		702.78	702.86
556	WOLF RD	28+00	48.1 LT	PRC FLAR END SEC 15	-		705.80		
557	WOLF RD	30+35	40.4 LT	MAN TA 5 DIA T1F CL	705.35	697.45	697.45		
558	WOLF RD	32+00	36.0 LT	MAN TA 5 DIA T1F CL	703.25	695.85	695.85	696.51	
559	WOLF RD	25+08	32.2 RT	INLETS TA T24F&G	710.05				705.88
560	WOLF RD	34+74.9	43.5 LT	MAN TA 5 DIA T1F CL	698.39		693.15	690.64	693.04
561	WOLF RD	26+24	35.2 LT	CB TA 4 DIA T24F&G	709.26			704.88	704.80
562	WOLF RD	26+24	31.3 RT	INLETS TA T24F&G	709.37				705.20
563	WOLF RD	26+97	69.2 LT	INLETS TA T24F&G	707.29		703.12		
564	WOLF RD	26+70	69.2 LT	INLETS TB T24F&G	707.29	702.99		702.99	
565	WOLF RD	28+46	29.3 RT	INLETS TA T24F&G	707.85				703.68
566	WOLF RD	28+46	33.3 LT	CB TA 5 DIA T24F&G	707.80	699.29	699.29	703.38	
567	WOLF RD	32+00	40.0 RT	CB TC T8G	701.40				697.23
568	WOLF RD	26+65	40.1 LT	MAN TA 5 DIA T1F CL	708.81	701.01	701.01		
569	159TH ST	326+05.1	110.8 LT	INLETS TB T11F&G	713.55		709.22		709.28
570	159TH ST	326+18.1	110.8 LT	INLETS TA T11F&G	713.55			709.38	

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
501	STORM SEW CL A 2	12	74.3	0.50	10.3
502	STORM SEW CL A 2	12	4.4	1.00	0.6
503	STORM SEW CL A 2	12	90.0	0.50	60.6
504	SS 2 WAT MN	12	79.8	0.50	18.9
505	STORM SEW CL A 2	12	4.4	1.00	1.1
506	SS 2 WAT MN	15	57.0	0.33	37.1
507	STORM SEW CL A 2	12	83.5	0.50	45.3
508	STORM SEW CL A 2	12	4.4	1.00	2.5
509	SS 1 WAT MN	12	19.2	1.00	3.4
510	STORM SEW CL A 2	18	105.0	0.50	99.4
511	STORM SEW CL A 2	12	45.0	1.00	10.1
512	STORM SEW CL A 2	12	84.3	0.50	45.5
513	STORM SEW CL A 2	12	4.4	1.00	2.6
514	STORM SEW CL A 2	18	99.1	0.50	67.1
515	STORM SEW CL A 2	12	67.0	0.50	12.0
516	STORM SEW CL A 1	18	52.1	0.50	24.1
517	STORM SEW CL A 2	12	36.6	2.00	5.6
518	STORM SEW CL A 2	24	15.1	0.70	6.9
519	STORM SEW CL A 2	24	14.8	0.70	6.5
520	STORM SEW CL A 2	24	55.9	0.70	21.4
521	STORM SEW CL A 2	12	4.4	0.50	17.1
522	SS 2 WAT MN	12	82.8	0.50	10.5
523	STORM SEW CL A 2	18	122.5	0.70	0.0
524	STORM SEW CL A 2	12	3.9	1.00	2.7
525	SS 2 WAT MN	12	81.2	0.50	50.5
526	STORM SEW CL A 2	18	82.1	0.70	49.4
526A	STORM SEW CL A 2	12	32.1	0.50	3.7
527	STORM SEW CL A 2	15	11.6	1.00	3.1
528	SS 2 WAT MN	12	75.4	1.00	20.2
528A	STORM SEW CL A 2	15	40.0	0.50	25.6
528B	STORM SEW CL A 2	12	7.5	0.50	0.0
529	STORM SEW CL A 2	15	46.1	0.50	15.7
530	STORM SEW CL A 2	12	4.4	1.00	0.6
531	STORM SEW CL A 2	12	66.2	1.00	18.1
531A	SS 1 WAT MN	12	23.2	0.50	1.0
532	STORM SEW CL A 2	12	92.0	0.50	0.0
533	STORM SEW CL A 2	12	4.4	1.00	1.4
534	STORM SEW CL A 2	12	64.1	1.00	35.5
535	STORM SEW CL A 2	12	43.8	0.50	20.6
535A	SS 2 WAT MN	12	54.5	0.50	13.5
536	SS 2 WAT MN	12	14.4	1.00	2.6
536A	SS 2 WAT MN	12	16.0	1.00	3.0
537	STORM SEW CL A 2	24	43.5	0.78	27.5
537A	STORM SEW CL A 2	12	16.1	1.00	2.9
538	STORM SEW CL A 2	24	101.8	0.94	79.4
539	STORM SEW CL A 2	24	52.6	1.00	41.8
540	SS 2 WAT MN	24	36.3	1.00	35.4
541	SS 2 WAT MN	12	83.7	0.50	18.8
541A	SS 2 WAT MN	12	18.1	0.50	3.5
542	STORM SEW CL A 2	24	184.0	1.00	187.7
543	STORM SEW CL A 2	24	54.4	1.00	40.7
543	SS 2 WAT MN	24	30.0	1.00	22.0
544	STORM SEW CL A 2	12	85.4	1.00	18.5
545	STORM SEW CL A 2	24	82.0	1.00	57.8
546	STORM SEW CL A 2	12	54.4	0.80	24.9
547	STORM SEW CL A 2	12	24.8	1.00	6.5
548	SS 2 WAT MN	12	20.5	1.00	3.2
549	STORM SEW CL A 2	24	111.0	1.00	81.7
550	STORM SEW CL A 2	12	80.6	0.50	15.0
551	STORM SEW CL A 2	24	111.1	1.00	89.1
552	STORM SEW CL A 2	24	111.0	1.00	104.8
553	STORM SEW CL A 2	24	16.0	1.00	15.8
554	STORM SEW CL A 2	15	8.0	1.75	4.9
555	STORM SEW CL A 1	15	107.6	1.40	5.3
556	STORM SEW CL A 2	24	156.2	1.00	29.7
557	STORM SEW CL A 2	24	160.2	1.00	148.0
558	STORM SEW CL A 2	24	270.0	1.00	176.2
559	STORM SEW CL A 2	12	73.2	0.50	13.9
560	NOT USED				
561	STORM SEW CL A 2	12	4.4	1.00	0.6
562	STORM SEW CL A 2	12	64.0	0.50	12.5
563	STORM SEW CL A 2	12	26.5	0.50	7.2
564	STORM SEW CL A 2	12	25.1	0.	

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
600	159TH ST	330+38	58.6 LT	MAN TA 4 DIA T1F CL	713.69			705.72	
601	159TH ST	330+38	50.0 LT	CB TA 4 DIA T24F&G	713.51	709.03	709.11		
602	159TH ST	330+38	42.3 RT	INLETS TA T24F&G	713.73	709.56			
603	159TH ST	331+30	59.1 LT	MAN TA 5 DIA T1F CL	712.97		708.36	705.23	705.48
604	159TH ST	331+30	50.0 LT	CB TA 4 DIA T24F&G	712.79	708.41	708.49		
605	159TH ST	331+30	39.0 RT	INLETS TA T24F&G	713.09	708.92			
606	159TH ST	332+00	56.3 LT	MAN TA 5 DIA T1F CL	712.58		707.02	705.02	705.12
607	159TH ST	332+00	47.9 LT	CB TA 4 DIA T24F&G	712.40	707.04	707.12		
608	159TH ST	332+00	7.8 RT	CB TA 4 DIA T11F&G	713.12	707.38	707.46		
609	159TH ST	332+00	38.1 RT	CB TA 4 DIA T24F&G	712.64	707.59	707.67		
609A	159TH ST	331+88.3	51.4 RT	MAN TA 6 DIA T1F CL	712.74	707.80	709.15		707.92
609B	159TH ST	331+80.3	57.6 RT	CB TA 4 DIA T24F&G	712.41			707.97	708.05
609C	159TH ST	331+54.7	54.7 RT	INLETS TA T24F&G	712.45			708.28	
610	159TH ST	333+01	69.2 LT	CB TC T8G	709.92		707.25		
610A	159TH ST	332+99.5	50.6 LT	MAN TA 5 DIA T1F CL	712.08	707.17		703.86	704.86
611	159TH ST	333+30	48.6 LT	MAN TA 5 DIA T1F CL	711.95		707.07	703.73	703.83
612	159TH ST	333+30	40.1 LT	CB TA 4 DIA T24F&G	711.75	707.11	707.19		
613	159TH ST	333+30	4.3 RT	CB TA 4 DIA T24F&G	712.34	707.39	707.47		
614	159TH ST	333+30	39.1 RT	INLETS TA T24F&G	711.80	707.63			
615	159TH ST	334+59	50.7 LT	MAN TA 5 DIA T24F&G	710.69		706.30	703.49	703.59
616	159TH ST	334+59	38.1 LT	CB TA 4 DIA T24F&G	710.96	706.34	706.42		
617	159TH ST	334+59	39.1 RT	INLETS TA T24F&G	710.96	706.79			
618	159TH ST	336+01	46.6 LT	MAN TA 5 DIA T1F CL	710.24		705.26	703.24	703.34
619	159TH ST	336+01	38.1 LT	CB TA 4 DIA T24F&G	710.04	705.30	705.38		
619A	159TH ST	336+01	13.9 LT	CB TA 4 DIA T24F&G	710.52	705.48	705.56		
619B	159TH ST	336+01	11.9 RT	CB TA 4 DIA T24F&G	710.52	705.67	705.75		
620	159TH ST	336+01	39.1 RT	INLETS TA T24F&G	710.04	705.87			
621	159TH ST	336+33.20	52.0 LT	MAN TA 7 DIA T1F CL	709.87	704.09	703.17	702.87	703.20
622	159TH ST	337+50	40.1 LT	CB TA 4 DIA T24F&G	709.08		704.41	704.33	
622A	159TH ST	337+50	13.9 LT	CB TA 4 DIA T24F&G	709.56	704.52	704.60		
622B	159TH ST	337+50	11.9 RT	CB TA 4 DIA T24F&G	709.56	704.71	704.79		
623	159TH ST	337+50	39.1 RT	INLETS TA T24F&G	709.08	704.91			
624	159TH ST	338+85	53.8 LT	MAN TA 5 DIA T1F CL	708.23		703.34	702.16	702.16
625	159TH ST	338+85	40.1 LT	CB TA 4 DIA T24F&G	708.20	703.39	703.53		703.47
625A	159TH ST	338+85	13.9 LT	CB TA 4 DIA T24F&G	708.68	703.64	703.72		
625B	159TH ST	338+85	11.9 RT	CB TA 4 DIA T24F&G	708.68	703.83	703.91		
626	159TH ST	338+85	39.1 RT	INLETS TA T24F&G	708.20	704.03			
627	159TH ST	340+00	39.1 LT	INLETS TA T24F&G	707.56			703.39	
628	159TH ST	340+00	39.1 RT	INLETS TA T24F&G	707.56			703.39	
629	159TH ST	340+38	40.1 LT	CB TA 4 DIA T24F&G	707.51		702.61	702.53	703.22
629A	159TH ST	340+38	13.9 LT	CB TA 4 DIA T24F&G	707.99	702.72	702.80		
629B	159TH ST	340+38	11.9 RT	CB TA 4 DIA T24F&G	707.99	702.91	702.99		
630	159TH ST	340+38	38.1 RT	CB TA 4 DIA T24F&G	707.51	703.10		703.18	703.22
631	159TH ST	340+85	40.1 LT	CB TA 4 DIA T24F&G	707.59			702.28	702.36
632	159TH ST	341+10	39.1 RT	INLETS TA T24F&G	707.69				703.52
633	159TH ST	341+00	47.1 LT	MAN TA 6 DIA T1F CL	707.81	702.15		702.46	702.23
634	159TH ST	342+52	47.1 LT	MAN TA 5 DIA T1F CL	709.30		703.83	702.81	702.71
635	159TH ST	342+52	38.1 LT	CB TA 4 DIA T24F&G	709.12	703.85	703.93		
635A	159TH ST	342+20	13.9 LT	CB TA 4 DIA T24F&G	709.15	704.11	704.19		
635B	159TH ST	342+20	11.9 RT	CB TA 4 DIA T24F&G	709.15	704.30	704.38		
636	159TH ST	342+20	39.1 RT	INLETS TA T24F&G	708.67	704.50			
637	159TH ST	344+28	47.1 LT	MAN TA 5 DIA T1F CL	712.39		707.32	703.60	703.10
638	159TH ST	344+28	38.1 LT	CB TA 4 DIA T24F&G	712.21	707.34	707.42		
638A	159TH ST	344+28	13.9 LT	CB TA 4 DIA T24F&G	712.69	707.52	707.60		
638B	159TH ST	344+28	7.6 RT	CB TA 4 DIA T24F&G	712.75	707.69	707.77		
639	159TH ST	344+28	43.4 RT	INLETS TA T24F&G	712.10	707.93			
640	159TH ST	346+17	46.6 LT	MAN TA 4 DIA T1F CL	715.79		710.55		704.10
641	159TH ST	346+17	38.1 LT	CB TA 4 DIA T24F&G	715.61	710.57	710.65		
641A	159TH ST	346+17	13.9 LT	CB TA 4 DIA T24F&G	716.09	710.75	710.83		
642	159TH ST	346+17	51.1 RT	INLETS TA T24F&G	715.31	711.14			
643	159TH ST	343+79.5	69.5 RT	PRC FLAR END SEC 24	-		710.49		
644	159TH ST	336+33.2	63.8 LT	CB TC T8G	708.33		704.16		
645	159TH ST	340+00	63.1 LT	CB TC T8G	706.30		703.41		

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)	
						600
601	STORM SEW CL A 2	12	89.3	0.50	20.0	
602	STORM SEW CL A 2	18	87.5	0.27	93.3	
603	STORM SEW CL A 2	12	4.6	1.00	0.4	
604	STORM SEW CL A 2	12	86.2	0.50	18.8	
605	STORM SEW CL A 2	24	65.0	0.17	70.5	
606	STORM SEW CL A 2	15	4.4	0.50	1.0	
607	STORM SEW CL A 2	15	51.7	0.50	28.6	
608	STORM SEW CL A 2	15	26.3	0.50	13.4	
609	STORM SEW CL A 2	24	94.7	0.17	98.6	
609A	STORM SEW CL A 2	15	12.7	1.00	4.2	
609B	STORM SEW CL A 2	12	5.1	1.00	1.5	
609C	STORM SEW CL A 2	12	22.8	1.00	5.6	
610	SS 2 WAT MN	12	12	15.1	0.50	2.2
610A	STORM SEW CL A 2	36	25.6	0.11	31.9	
611	STORM SEW CL A 2	12	4.0	1.00	0.5	
612	STORM SEW CL A 2	12	40.4	0.50	11.3	
613	STORM SEW CL A 2	12	31.9	0.50	7.4	
614	STORM SEW CL A 2	36	124.0	0.11	138.9	
615	STORM SEW CL A 2	12	8.1	0.50	2.5	
616	STORM SEW CL A 2	12	74.3	0.50	14.2	
617	STORM SEW CL A 2	36	137.1	0.11	134.7	
618	STORM SEW CL A 2	12	4.0	1.00	0.5	
619	STORM SEW CL A 2	12	20.3	0.50	5.6	
619A	STORM SEW CL A 2	12	21.7	0.50	1.1	
619B	STORM SEW CL A 2	12	24.3	0.50	5.0	
620	STORM SEW CL A 2	36	26.7	0.15	24.5	
621	STORM SEW CL A 2	12	22.3	0.50	6.1	
621A	STORM SEW CL A 2	12	21.7	0.50	0.6	
621B	STORM SEW CL A 2	12	24.3	0.50	5.6	
622	STORM SEW CL A 2	12	133.0	0.65	31.3	
623	STORM SEW CL A 2	15	9.2	0.50	2.3	
624	STORM SEW CL A 2	12	22.3	0.50	6.1	
624A	STORM SEW CL A 2	12	21.7	0.50	0.6	
624B	STORM SEW CL A 2	12	24.3	0.50	5.6	
625	STORM SEW CL A 2	12	35.0	0.50	6.4	
626	STORM SEW CL A 2	12	35.0	0.50	6.4	
627	STORM SEW CL A 2	15	43.0	0.40	18.5	
627A	STORM SEW CL A 2	15	11.5	0.40	4.7	
628	STORM SEW CL A 2	12	69.0	0.50	12.7	
629	STORM SEW CL A 2	12	22.3	0.50	10.5	
629A	STORM SEW CL A 2	12	21.7	0.50	1.0	
629B	STORM SEW CL A 2	12	22.3	0.50	5.8	
630	STORM SEW CL A 2	24	4.3	0.17	3.0	
631	STORM SEW CL A 2	24	124.0	0.17	81.0	
631	STORM SEW CL A 2	24	22.5	0.17	16.9	
632	STORM SEW CL A 2	12	4.4	0.50	0.9	
633	STORM SEW CL A 2	12	36.2	0.50	16.6	
633A	STORM SEW CL A 2	12	21.7	0.50	0.6	
633B	STORM SEW CL A 2	12	24.3	0.50	5.6	
634	STORM SEW CL A 2	12	20.3	0.50	5.9	
634A	STORM SEW CL A 2	12	17.5	0.50	1.0	
634B	STORM SEW CL A 2	12	32.8	0.50	7.8	
635	STORM SEW CL A 2	18	184.5	0.27	281.1	
636	STORM SEW CL A 2	12	4.4	0.50	0.9	
637	STORM SEW CL A 2	12	20.3	0.50	9.8	
637A	STORM SEW CL A 2	12	62.0	0.50	14.1	
638	STORM SEW CL A 2	24	171.0	0.17	195.5	
639	STORM SEW CL A 2	12	4.4	0.50	0.5	
640	STORM SEW CL A 2	24	8.0	2.00	0.0	
641	STORM SEW CL A 2	12	7.3	1.00	0.0	
642	STORM SEW CL A 1	12	5.9	1.00	0.0	

DRAINAGE STRUCTURE REMOVALS

ALIGN.	STATION	OFFSET	DESCRIPTION
159TH	326+85.82	24.72 LT	REMOV INLETS
159TH	326+90.42	46.98 LT	REMOV MANHOLES
159TH	327+00.31	40.62 RT	REMOV INLETS
159TH	327+91.11	26.86 LT	REMOV INLETS
159TH	328+20.27	46.77 LT	REMOV MANHOLES
159TH	328+38.65	42.65 RT	REMOV INLETS
159TH	328+48.50	46.91 LT	REMOV MANHOLES
159TH	328+57.76	43.24 RT	REMOV MANHOLES
159TH	329+34.22	38.69 RT	REMOV MANHOLES
159TH	329+38.18	45.62 RT	REMOV INLETS
159TH	329+63.67	47.37 RT	REMOV CATCH BAS
159TH	330+76.75	27.08 RT	REMOV CATCH BAS
159TH	331+31.00	30 RT	REMOV CATCH BAS
159TH	331+56.16	50.97 RT	REMOV CATCH BAS
159TH	331+80.10	51.32 RT	REMOV CATCH BAS
159TH	331+88.23	51.45 RT	REMOV MANHOLES
159TH	332+07.82	31.88 RT	REMOV CATCH BAS
159TH	336+31.60	52.67 LT	REMOV CATCH BAS
159TH	340+97.51	56.56 LT	REMOV CATCH BAS
159TH	351+23.90	48.99 LT	REMOV CATCH BAS
159TH	351+35.46	28.42 RT	REMOV CATCH BAS
159TH	351+36.05	32.73 LT	REMOV CATCH BAS
159TH	352+75.42	47.78 LT	REMOV CATCH BAS
159TH	352+85.60	31.38 RT	REMOV CATCH BAS
159TH	352+86.15	37.81 LT	REMOV MANHOLES
159TH	352+86.29	32.53 LT	REMOV CATCH BAS
159TH	354+14.93	47.43 LT	REMOV CATCH BAS
159TH	354+24.75	32.3 LT	REMOV CATCH BAS
159TH	354+25.93	31.61 RT	REMOV CATCH BAS
159TH	354+49.87	34.92 LT	REMOV CATCH BAS
159TH	354+73.40	49.83 LT	REMOV CATCH BAS
159TH	354+75.72	74.2 RT	REMOV INLETS
159TH	354+87.14	37.75 LT	REMOV MANHOLES
159TH	355+06.12	71.43 RT	REMOV CATCH BAS
159TH	355+29.51	74.86 LT	REMOV CATCH BAS
159TH	355+53.41	75.78 RT	REMOV CATCH BAS
159TH	355+61.54	66.06 RT	REMOV INLETS</

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
700	159TH ST	349+80	46.6 LT	MAN TA 4 DIA TIF CL	714.93		710.05	703.89	
701	159TH ST	349+80	38.1 LT	CB TA 4 DIA T24F&G	714.75	710.07	710.15		
701A	159TH ST	349+80	10.2 RT	CB TA 4 DIA T24F&G	715.26	710.37	710.45		
702	159TH ST	349+80	39.1 RT	INLETS TA T24F&G	714.75	710.58			
703	159TH ST	351+82	46.6 LT	MAN TA 4 DIA TIF CL	708.35		703.30	698.51	702.90
704	159TH ST	351+82	38.1 LT	CB TA 4 DIA T24F&G	708.17	703.32	703.40		
705	159TH ST	351+82	46.8 RT	INLETS TA T24F&G	707.98	703.81			
706	159TH ST	353+00	46.6 LT	MAN TA 4 DIA TIF CL	705.08		699.83	695.85	698.23
707	159TH ST	353+00	38.1 LT	CB TA 4 DIA T24F&G	704.90	699.85	699.93		
708	159TH ST	353+00	8.8 LT	INLETS TB T11F&G	705.38	700.06	700.14		
709	159TH ST	353+00	51.2 RT	INLETS TA T24F&G	704.60	700.43			
710	159TH ST	353+84	48.4 LT	MAN TA 5 DIA TIF CL	703.51	695.71	697.67	695.55	695.65
711	159TH ST	353+84	39.4 LT	CB TA 4 DIA T24F&G	703.33	697.69	697.77		
712	159TH ST	354+21	51.1 RT	INLETS TA T24F&G	702.60	698.43			
713	159TH ST	354+00	72.0 LT	CB TC T8G	700.00		695.83		
714	159TH ST	354+36	8.8 LT	INLETS TB T11F&G	703.23	698.05	698.13		
715	159TH ST	354+87.21	37.8 LT	MAN TA 6 DIA TIF CL	702.39	696.07	694.87		695.38
716	108TH AVE	20+75	40.8 LT	CB TA 4 DIA T24F&G	701.54	696.51	696.51	696.51	
717	108TH AVE	20+75	58.1 RT	INLETS TB T24F&G	701.47	697.02			696.94
718	108TH AVE	21+00	58.0 RT	INLETS TA T8G	699.80		697.12		
719	159TH ST	356+16	52.0 LT	INLETS TB T24F&G	702.19		697.92	698.00	
720	159TH ST	356+80	51.1 LT	INLETS TA T24F&G	702.48				698.31
721	159TH ST	356+19	8.8 RT	INLETS TB T11F&G	703.01	697.63	697.55		
722	159TH ST	356+80	39.4 RT	INLETS TA T24F&G	702.77				698.60
723	159TH ST	356+12	50.0 RT	MAN TA 4 DIA T24F&G	702.25	697.36	695.68	698.27	
724	108TH AVE	19+10	72.0 RT	CB TA 4 DIA T8G	699.50	695.48	695.23		
725	108TH AVE	18+75	47.1 RT	CB TA 4 DIA T24F&G	700.03	695.10	694.60		
726	108TH AVE	23+86	33.4 RT	INLETS TA T24F&G	710.28				706.37
727	108TH AVE	22+13.72	35.1 RT	INLETS TA T24F&G	704.94				701.36
728	108TH AVE	17+68	26.5 RT	MAN TA 5 DIA TIF CL	699.25		688.38	693.44	
729	108TH AVE	17+68	47.1 RT	CB TA 4 DIA T24F&G	698.86	693.57			693.49
730	108TH AVE	22+13.72	31.1 LT	INLETS TA T24F&G	704.94				701.59
731	108TH AVE	17+00	54.7 RT	INLETS TA T1F&G OL	697.05	693.97			
732	108TH AVE	17+10	26.5 RT	MAN TA 5 DIA TIF CL	698.84	688.29	688.29	693.79	
733	108TH AVE	17+10	47.1 RT	CB TA 4 DIA T24F&G	698.45			693.92	693.84
734	108TH AVE	15+54	26.5 RT	MAN TA 5 DIA TIF CL	697.74	688.06	688.06	693.35	
735	108TH AVE	15+54	37.6 RT	INLETS TA T24F&G	697.56				693.39
736	108TH AVE	14+65	23.5 RT	MAN TA 5 DIA TIF CL	696.82	687.93	687.93	692.52	
737	108TH AVE	14+65	31.6 RT	CB TC T24F&G	696.71				692.54
738	108TH AVE	13+70	22.5 RT	CB TA 5 DIA T24F&G	695.31	687.81	687.81	691.14	
739	108TH AVE	27+07.5	26.4 RT	CB TA 4 DIA T24F&G	713.75		709.58		
740	108TH AVE	13+70	40.2 RT	PRC FLAR END SEC 12	-			691.43	
741	108TH AVE	12+80	32.4 RT	MH TA 6D W/2 T1FCL RP	693.29	687.73	687.73		
742	108TH AVE	12+00	36.1 RT	CONC ES 542001 24 1:6	-	687.60			
743	108TH AVE	13+37	45.5 LT	PRC FLAR END SEC 30	-	690.77			
744	108TH AVE	10+04	30.4 RT	CONC ES 542001 18 1:3	-				682.84

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
800	159TH ST	358+66	39.1 RT	INLETS TA T24F&G	702.46	698.29			
801	159TH ST	358+66	48.2 LT	CB TA 4 DIA T24F&G	702.67		697.88	697.80	
801A	159TH ST	383+76.70	43.3 LT	MAN TA 4 DIA TIF CL	702.45			690.37	697.74
802	159TH ST	360+30	39.1 RT	INLETS TA T24F&G	700.80	696.63			
803	159TH ST	360+30	38.1 LT	CB TA 4 DIA T24F&G	700.80	696.12	696.20		
803A	159TH ST	360+30	11.9 RT	CB TA 4 DIA T24F&G	701.28	696.43	696.51		
804	159TH ST	361+60.22	39.1 RT	INLETS TA T24F&G	699.22	695.05			
805	159TH ST	361+60.22	38.1 LT	CB TA 4 DIA T24F&G	699.22	694.48	694.56		
805A	159TH ST	361+60.22	13.9 LT	CB TA 4 DIA T24F&G	699.70	694.66	694.74		
805B	159TH ST	361+60.22	11.9 RT	CB TA 4 DIA T24F&G	699.70	694.85	694.93		
806	159TH ST	362+84.59	39.1 RT	INLETS TA T24F&G	698.02	693.85			
807	159TH ST	362+84.59	38.1 LT	CB TA 4 DIA T24F&G	698.00	693.27	693.35		
807A	159TH ST	362+84.59	13.9 LT	CB TA 4 DIA T24F&G	698.50	693.46	693.54		
807B	159TH ST	362+84.59	11.9 RT	CB TA 4 DIA T24F&G	698.50	693.65	693.73		
808	159TH ST	364+03	39.1 RT	INLETS TA T24F&G	697.52	693.35			
808A	159TH ST	364+44	45.5 LT	MAN TA 4 DIA TIF CL	697.72		692.64	686.96	686.96
809	159TH ST	364+44	38.1 LT	CB TA 4 DIA T24F&G	697.52	692.66	692.74		
809A	159TH ST	364+03	13.9 LT	CB TA 4 DIA T24F&G	698.00	692.96	693.04		
809B	159TH ST	364+03	11.9 RT	CB TA 4 DIA T24F&G	698.00	693.15	693.23		
810	159TH ST	365+34.80	39.1 RT	INLETS TA T24F&G	696.99	692.82			
811	159TH ST	365+34.80	38.1 LT	CB TA 4 DIA T24F&G	696.99	692.37	692.45		
812	159TH ST	366+44.54	39.1 RT	INLETS TA T24F&G	696.55	692.38			
813	159TH ST	366+44.54	38.1 LT	CB TA 4 DIA T24F&G	696.55	691.86	691.94		
813A	159TH ST	366+44.54	8.8 RT	INLETS TB T11F&G	697.03	692.16	692.24		
814	159TH ST	367+69.30	39.1 RT	INLETS TA T24F&G	696.05	691.88			
815	159TH ST	367+69.30	38.1 LT	CB TA 4 DIA T24F&G	696.05	691.43	691.51		
816	159TH ST	367+69.30	68.0 LT	CB TC T8G	691.84		688.17		

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
701	STORM SEW CL A 2	12	44.3	0.50	9.7
701A	STORM SEW CL A 2	12	26.0	0.50	6.1
702	STORM SEW CL A 2	12	198.0	0.50	214.6
703	STORM SEW CL A 2	12	4.4	0.50	0.5
704	STORM SEW CL A 2	12	82.0	0.50	17.7
705	STORM SEW CL A 2	18	114.0	0.25	134.3
706	STORM SEW CL A 2	12	4.4	0.50	0.9
707	STORM SEW CL A 2	12	25.8	0.50	12.2
708	STORM SEW CL A 2	12	57.4	0.50	15.6
709	STORM SEW CL A 2	18	81.4	0.25	83.9
710	STORM SEW CL A 2	12	4.5	0.50	1.1
711	STORM SEW CL A 2	12	59.3	0.50	17.0
712	STORM SEW CL A 2	12	23.5	0.50	11.0
713	STORM SEW CL A 2	24	98.3	0.17	85.9
714	STORM SEW CL A 2	12	56.9	0.50	27.9
715	NOT USED				
716	SS 2 WAT MN	12	95.4	0.45	25.7
717	STORM SEW CL A 1	12	22.5	0.45	1.0
718	STORM SEW CL A 2	12	61.5	0.50	10.9
719	STORM SEW CL A 2	12	57.9	0.50	16.4
720	STORM SEW CL A 2	12	38.2	0.50	17.8
721	STORM SEW CL A 2	12	66.8	0.50	11.1
722	STORM SEW CL A 1	12	39.8	0.50	20.4
723	STORM SEW CL A 1	15	37.9	0.33	10.7
724	NOT USED				
725	SS 2 WAT MN	15	103.0	1.00	48.7
726	STORM SEW CL A 1	12	2.0	1.00	0.3
727	SS 2 WAT MN	15	16.1	0.33	8.2
728	STORM SEW CL A 1	12	8.0	1.00	0.9
729	STORM SEW CL A 2	24	52.8	0.17	80.8
730	SS 2 WAT MN	15	16.1	0.33	4.0
731	STORM SEW CL A 1	12	9.7	0.50	0.9
732	STORM SEW CL A 2	27	151.3	0.15	217.8
733	STORM SEW CL A 2	12	7.6	0.50	1.4
734	STORM SEW CL A 2	27	84.1	0.15	106.1
735	STORM SEW CL A 2	12	4.7	0.50	0.9
736	STORM SEW CL A 2	30	90.0	0.13	92.9
737	STORM SEW CL A 2	12	9.1	2.00	1.2
738	STORM SEW CL A 2	12	4.0	1.00	0.7
739	STORM SEW CL A 2	30	63.1	0.13	41.5
739	SS 2 WAT MN	30	22.0	0.13	14.9
740	STORM SEW CL A 2	24	57.5	0.17	14.9
741	STORM SEW CL A 2	24	8.0	0.50	0.0
742	STORM SEW CL A 2	18	8.0	0.25	0.0

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE (INCH)	LENGTH (FEET)	SLOPE (%)	TBF (CU YD)
801	STORM SEW CL A 2	12	7.8	0.80%	1.9
802	STORM SEW CL A 2	12	46.0	0.50%	7.5
802A	STORM SEW CL A 2	12	24.3	0.50%	5.0
803	STORM SEW CL A 2	12	3.1	1.00%	0.7
804	STORM SEW CL A 2	12	20.3	0.50%	5.0
804A	STORM SEW CL A 2	12	21.7	0.50%	0.5
804B	STORM SEW CL A 2	12	24.3	0.50%	5.0
805	STORM SEW CL A 2	12	1.6	1.00%	0.4
806	STORM SEW CL A 2	12	21.1	0.50%	5.2
806A	STORM SEW CL A 2	12	21.7	0.50%	0.5
806B	STORM SEW CL A 2	12	24.3	0.50%	5.0
807	STORM SEW CL A 2	12	2.5	1.00%	0.6
808	STORM SEW CL A 2	12	43.7	0.50%	11.1
808A	STORM SEW CL A 2	12	21.7	0.50%	0.5
808B	STORM SEW CL A 2	12	24.3	0.50%	5.0
809	STORM SEW CL A 2	12	3.3	0.50%	1.4
810	STORM SEW CL A 2	12	74.3	0.50%	14.5
811	STORM SEW CL A 2	12	1.4	1.00%	0.6
812	STORM SEW CL A 2	12	27.9	0.50%	5.8
812A	STORM SEW CL A 2	12	43.4	0.50%	12.2
813	STORM SEW CL A 2	12	2.5	1.00%	0.6
814	STORM SEW CL A 2	12	74.3	0.50%	13.8
815	STORM SEW CL A 2	12	3.3	1.00%	0.8
816	STORM SEW CL A 2	12	19.6	0.50%	8.0

DRAINAGE STRUCTURE ADJUSTMENTS

ALIGN.	STATION	OFFSET	DESCRIPTION
159TH	354+18.95	79.22 RT	CB ADJUST
159TH			

DRAINAGE STRUCTURE SCHEDULE

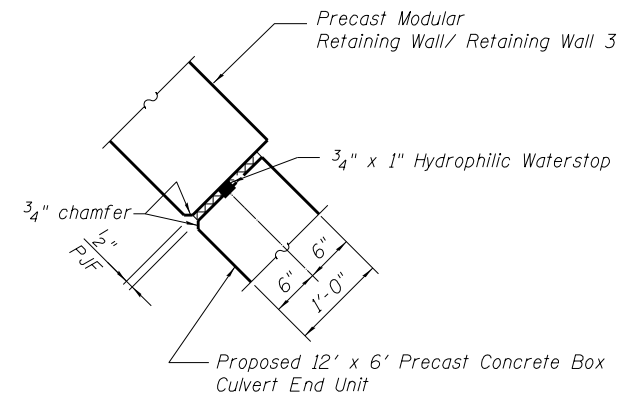
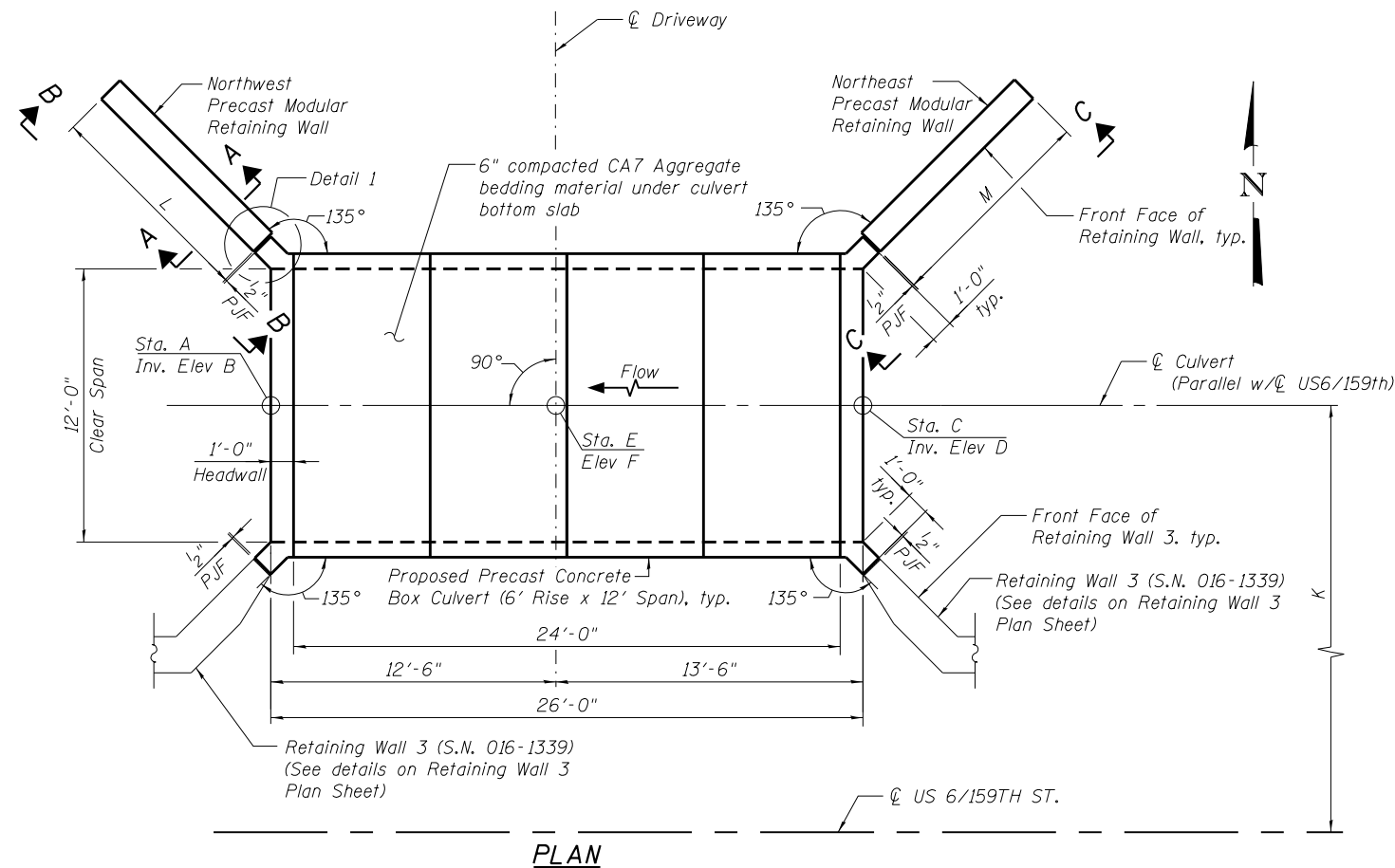
STRUCTURE NO.	ALIGNMENT	LOCATION		TYPE	RIM ELEV	INVERT ELEVATION			
		STATION	OFFSET			NORTH	SOUTH	EAST	WEST
900	159TH ST	373+18.01	40.1 RT	CB TA 4 DIA T24F&G	690.66	686.73	686.65		
900A	159TH ST	373+18.01	12.9 RT	CB TC T24F&G	691.14		686.97		
901	159TH ST	373+18.01	55.6 RT	MAN TA 6 DIA TIF CL	690.58	686.55	680.96	680.96	
902	159TH ST	372+99.52	90.1 RT	PRC FLAR END SEC 36	-	681.00			
903	159TH ST	374+57.33	40.1 RT	CB TA 4 DIA T24F&G	688.27	684.34	684.26		
903A	159TH ST	374+57.33	12.9 RT	CB TC T24F&G	688.75		684.58		
904	159TH ST	374+57.33	56.1 RT	MAN TA 5 DIA TIF CL	688.19	684.15		680.80	680.80
905	159TH ST	375+50.08	56.1 RT	MAN TA 5 DIA TIF CL	687.21	683.71		680.67	680.67
906	159TH ST	375+98.18	56.1 RT	MAN TA 5 DIA TIF CL	687.37	683.87		680.61	680.61
907	159TH ST	376+49.08	56.1 RT	MAN TA 5 DIA TIF CL	687.48	683.98		680.55	680.55
908	159TH ST	377+56.08	56.1 RT	MAN TA 5 DIA TIF CL	688.02	684.52		680.40	680.40
909	159TH ST	378+95.08	56.1 RT	MAN TA 5 DIA TIF CL	688.73	685.23		680.21	680.21
910	159TH ST	380+23.22	56.1 RT	MAN TA 5 DIA TIF CL	689.39			680.04	680.04
911	159TH ST	380+60.27	77.9 RT	PRC FLAR END SEC 36	-				680.00
912	159TH ST	373+43.17	52.2 LT	CONC HDWL FOR P DRAIN	-		687.03		
913	159TH ST	374+56.60	48.9 LT	CONC HDWL FOR P DRAIN	-		685.47		
914	159TH ST	375+50.12	46.1 LT	CONC HDWL FOR P DRAIN	-		685.00		
915	159TH ST	375+97.65	45.1 LT	CONC HDWL FOR P DRAIN	-		684.76		
916	159TH ST	376+42.09	45.2 LT	CONC HDWL FOR P DRAIN	-		684.54		
917	159TH ST	377+50.08	45.8 LT	PRC FLAR END SEC 12	-		684.00		
918	159TH ST	378+65.08	49.2 LT	PRC FLAR END SEC 12	-		683.42		
919	159TH ST	380+56.83	54.7 LT	PRC FLAR END SEC 12	-		682.47		
919A	159TH ST	380+56.83	29.1 LT	CB TC T24F&G	689.61	682.84			
920	159TH ST	384+43.05	75.6 RT	PRC FLAR END SEC 12	-	681.95			
921	159TH ST	384+92.05	74.8 RT	PRC FLAR END SEC 12	-	681.65			
922	159TH ST	385+16.09	74.5 RT	PRC FLAR END SEC 12	-	681.66			
923	159TH ST	385+65.05	74.8 RT	PRC FLAR END SEC 12	-	681.93			
924	159TH ST	386+57.05	73.1 RT	PRC FLAR END SEC 12	-	683.03			
925	159TH ST	387+65.05	75.5 RT	PRC FLAR END SEC 12	-	682.29			
926	159TH ST	388+57.05	75.9 RT	PRC FLAR END SEC 12	-	682.75			
927	159TH ST	389+49.05	74.2 RT	PRC FLAR END SEC 12	-	683.70			
928	159TH ST	390+94.80	28.1 LT	CB TA 4 DIA T24F&G	689.32	680.69	684.76	685.04	
929	159TH ST	391+74.91	29.1 LT	INLETS TB T24F&G	689.64			685.42	685.42
930	159TH ST	392+39.96	29.1 LT	INLETS TA T24F&G	689.90				685.73
931	159TH ST	390+94.80	39.1 RT	INLETS TB T24F&G	689.32	685.07		685.07	
932	159TH ST	391+92.00	39.1 RT	INLETS TA T24F&G	689.71				685.54
933	159TH ST	395+89.21	29.1 LT	CB TC T24F&G	688.85	682.07			
934	159TH ST	396+55.00	67.7 RT	PRC FLAR END SEC 12	-	681.33			
935	159TH ST	396+55.00	39.0 RT	CB TC T24F&G	688.10		681.88		
936	159TH ST	397+67.00	68.1 RT	PRC FLAR END SEC 12	-	681.48			
937	159TH ST	397+67.00	39.1 RT	CB TC T24F&G	687.21		682.04		
938	159TH ST	397+96.61	69.0 RT	PRC FLAR END SEC 12	-	681.73			
939	159TH ST	397+96.61	39.1 RT	CB TC T24F&G	687.10		682.31		
940	159TH ST	398+40.73	69.3 RT	PRC FLAR END SEC 12	-	682.10			
941	159TH ST	398+89.10	69.6 RT	PRC FLAR END SEC 12	-	681.72			
942	159TH ST	399+81.10	69.0 RT	PRC FLAR END SEC 12	-	682.47			
943	159TH ST	403+10.00	66.5 RT	PRC FLAR END SEC 12	-	684.01			
944	159TH ST	403+10.00	40.1 RT	CB TA 4 DIA T24F&G	687.74		684.10	684.10	
945	159TH ST	403+98.34	39.1 RT	INLETS TA T24F&G	687.39				684.53
946	159TH ST	402+80.65	29.1 LT	CB TC T24F&G	687.86	681.69			
947	159TH ST	404+44.00	29.1 LT	CB TC T24F&G	687.20	682.51			
948	159TH ST	405+37.09	58.6 RT	MAN TA 4 DIA TIF CL	686.76	683.26		683.00	
949	159TH ST	405+88.09	58.6 RT	MAN TA 4 DIA TIF CL	686.68	683.18		682.76	682.76
950	159TH ST	406+29.09	58.6 RT	MAN TA 4 DIA TIF CL	686.73	683.23		682.57	682.57
951	159TH ST	406+65.14	59.2 RT	CB TA 4 DIA T24F&G	686.47			682.41	682.41
952	159TH ST	407+11.81	60.6 RT	CB TA 4 DIA T24F&G	686.47			682.20	682.20
953	159TH ST	407+51.06	67.0 RT	MAN TA 4 DIA T8G	685.70	682.20		682.02	682.02
954	159TH ST	408+38.09	44.8 RT	MAN TA 4 DIA TIF CL	688.08	681.59			681.59
955	159TH ST	405+40.00	29.1 LT	CB TC T24F&G	686.83	681.53			
956	159TH ST	405+88.09	29.1 LT	CB TC T24F&G	686.76	681.68			
957	159TH ST	406+44.00	28.1 LT	CB TA 4 DIA T24F&G	686.85	681.60		682.71	
958	159TH ST	407+57.16	29.1 LT	INLETS TA T24F&G	687.43				683.26
959	159TH ST	407+72.95	54.0 LT	PRC FL END S EQ RS 48	-			681.00	
960	159TH ST	407+95.01	38.9 LT	MAN TA 8 DIA TIF CL	687.30			681.02	681.02
961	159TH ST	380+82.86	57.3 LT	PRC FLAR END SEC 24	-			682.34	
962	159TH ST	381+18.97	53.8 LT	MAN TA 5 DIA TIF CL	688.10			680.05	682.06
963	159TH ST	408+87.40	39.1 RT	INLETS TA T24F&G	688.13	683.36			
964	159TH ST	411+30.00	36.2 RT	CB TC T24F&G	689.72		685.55		

DRAINAGE SEWER SCHEDULE

SEWER NO.	TYPE	SIZE	LENGTH	SLOPE	TBF
		(INCH)	(FEET)	(%)	(CU YD)
900	STORM SEW CL A 2	12	10.4	1.00	2.7
900A	STORM SEW CL A 2	12	24.3	1.00	4.1
901	STORM SEW CL A 2	36	6.4	0.13	0.0
901	SS 2 WAT MN	36	21.5	0.13	0.0
902	STORM SEW CL A 2	36	133.8	0.12	177.8
903	STORM SEW CL A 2	12	11.4	1.00	2.9
903A	STORM SEW CL A 2	12	24.3	1.00	4.1
904	STORM SEW CL A 2	36	87.8	0.15	83.3
905	STORM SEW CL A 2	36	43.1	0.14	37.5
906	STORM SEW CL A 2	36	45.9	0.14	42.2
907	STORM SEW CL A 2	36	102.0	0.15	104.6
908	STORM SEW CL A 2	36	134.0	0.14	163.7
909	STORM SEW CL A 2	36	123.1	0.14	176.7
910	STORM SEW CL A 2	36	10.8	0.13	0.0
910	SS 2 WAT MN	36	21.5	0.13	7.7
911	STORM SEW CL A 2	12	6.1	2.00	0.0
912	STORM SEW CL A 2	12	9.5	2.00	0.0
913	STORM SEW CL A 2	12	18.5	2.00	2.4
914	STORM SEW CL A 2	12	13.0	2.00	1.8
915	STORM SEW CL A 2	12	12.2	2.00	1.9
916	STORM SEW CL A 2	12	12.2	2.00	1.9
917	STORM SEW CL A 2	12	12.2	2.00	1.8
918	STORM SEW CL A 2	12	10.5	2.00	1.4
919	STORM SEW CL A 2	12	12.9	2.00	1.7
920	STORM SEW CL A 2	12	13.3	2.00	1.5
921	STORM SEW CL A 2	12	11.6	2.00	1.2
922	STORM SEW CL A 2	12	76.3	0.50	14.0
923	STORM SEW CL A 2	12	62.4	0.50	11.1
924	STORM SEW CL A 2	12	62.2	0.50	12.5
925	STORM SEW CL A 2	12	94.6	0.50	17.0
926	STORM SEW CL A 2	12	21.7	2.00	10.6
927	STORM SEW CL A 2	12	22.1	2.00	8.3
928	STORM SEW CL A 2	12	23.0	2.00	4.7
929	STORM SEW CL A 2	12	6.7	2.00	1.2
930	STORM SEW CL A 2	12	6.9	2.00	1.2
931	STORM SEW CL A 2	12	6.4	2.00	1.2
932	STORM SEW CL A 1	12	18.6	0.50	4.0
933	STORM SEW CL A 1	12	85.9	0.50	6.8
934	NOT USED				
935	STORM SEW CL A 1	12	47.0	0.50	10.5
936	NOT USED				
937	STORM SEW CL A 1	12	37.8	0.50	9.8
938	NOT USED				
939	STORM SEW CL A 1	12	32.3	0.50	8.6
940	STORM SEW CL A 1	12	42.9	0.50	10.9
941	STORM SEW CL A 1	15	35.8	0.50	4.6
942	STORM SEW CL A 2	12	4.0	1.00	2.0
943	STORM SEW CL A 2	15	85.8	0.50	42.3
944	STORM SEW CL A 2	12	110.2	0.50	19.2
945	STORM SEW CL A 1	48 EQ	16.0	0.10	0.0
946	STORM SEW CL A 1	48 EQ	20.0	0.10	0.0
947	STORM SEW CL A 2	24	28.2	1.00	11.8
948	STORM SEW CL A 2	24	4.0	1.00	0.0

UNDERDRAIN SCHEDULE

SEWER NO.	STA.	TYPE	UPSTREAM	LENGTH	SLOPE	DOWNSTREAM	CONNECTING DRAIN
			INV ELEV	(FEET)	(%)	INV ELEV	STR NO.
A01	282+06.00	PIPE UNDERDRAINS 4"	726.58	77.6	0.50%	726.19	104
A02	285+24.00	PIPE UNDERDRAINS 4"	725.31	77.6	0.50%	724.92	113
A03	287+67.00	PIPE UNDERDRAINS 4"	723.44	77.6	0.50%	723.05	119
A04	290+41.00	PIPE UNDERDRAINS 4"	719.82	77.6	0.50%	719.43	126
A05	293+15.00	PIPE UNDERDRAINS 4"	715.04	77.6	0.50%	714.65	201
A06	295+65.00	PIPE UNDERDRAINS 4"	708.04	77.6	0.50%	707.65	204
A07	298+15.00	PIPE UNDERDRAINS 4"	699.39	77.6	0.50%	699.00	207
A08	300+35.00	PIPE UNDERDRAINS 4"	694.18	77.6	0.50%	693.79	210
A09	302+77.00	PIPE UNDERDRAINS 4"	692.22	77.6	0.50%	691.83	220
A10	304+15.00	PIPE UNDERDRAINS 4"	692.92	97.0	0.50%	692.44	301
A11	305+55.00	PIPE UNDERDRAINS 4"	695.34	77.6	0.50%	694.95	304
A12	307+83.00	PIPE UNDERDRAINS 4"	703.09	77.6	0.50%	702.70	309
A13	309+50.00	PIPE UNDERDRAINS 4"	710.19	77.6	0.50%	709.80	313
A14	311+26.00	PIPE UNDERDRAINS 4"	715.42	77.6	0.50%	715.03	316
A15	314+26.00	PIPE UNDERDRAINS 4"	718.13	77.6	0.50%	717.74	319
A16	316+90.00	PIPE UNDERDRAINS 4"	719.22	77.6	0.50%	718.83	331
A17	322+08.00	PIPE UNDERDRAINS 4"	717.88	77.6	0.50%	717.49	408
A18	325+10.00	PIPE UNDERDRAINS 4"	715.39	83.0	0.50%	714.97	505
A19	327+83.00	PIPE UNDERDRAINS 4"	712.65	105.5	0.50%	712.12	516
A20	330+33.00	PIPE UNDERDRAINS 4"	711.26	92.8	0.50%	710.80	601
A21	331+95.00	PIPE UNDERDRAINS 4"	710.17	86.3	0.50%	709.74	607
A22	334+54.00	PIPE UNDERDRAINS 4"	708.49	88.7	0.50%	708.05	615
A23	337+45.00	PIPE UNDERDRAINS 4"	706.61	77.6	0.50%	706.22	622
A24	340+43.00	PIPE UNDERDRAINS 4"	705.01	77.6	0.50%	704.62	629
A25	342+57.00	PIPE UNDERDRAINS 4"	70				



DETAIL 1

Typical details for all four quadrants

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge Design Specifications,
 6th Edition with 2013 Interims.
 ASTM C 1577

LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

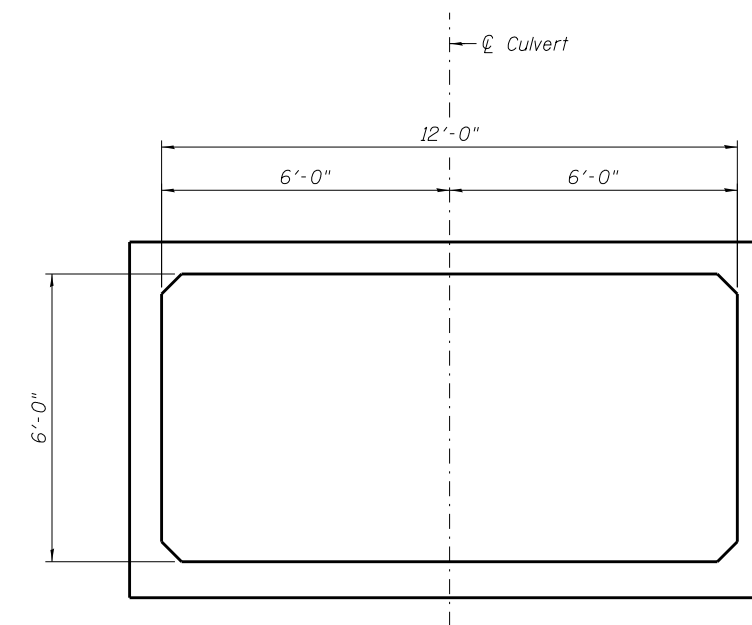
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

$f'_c = 4,500$ psi (Precast Modular Unit)

PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)

Precast Box Culvert I.D.	Station A	Elevation B	Station C	Elevation D	Station E	Elevation F	K	L	M	Size (Span x Height)	Design Fill (ft.)		PGE backfill required
											Edge of shldr. (minimum)	Maximum	
1	391+41.50	678.88	391+67.50	679.23	391+54.00	689.52	46.33'	9'-6"	9'-6"	12' x 6'	3.87	4.12	Yes
2	402+87.50	678.83	403+13.50	678.94	403+00.00	687.74	45.50'	11'-10"	6'-1"	12' x 6'	1.88	2.13	Yes



CROSS SECTION THRU PRECAST BARREL

#FILE# F:\5106-USA\Struct\Drawn\PreCast Culvert For Drainage\0160004-60L72-001-GP.dgn

LOCHNER
 H.W. LOCHNER, INC.
 225 WEST WASHINGTON STREET
 12 TH FLOOR
 CHICAGO, ILLINOIS 60606

USER NAME =	DESIGNED - RH	REVISED
FILE NAME = 0160004-60L72-001-GP.dgn	CHECKED - JWM	REVISED
PLOT SCALE =	DRAWN - EF	REVISED
PLOT DATE =	CHECKED - RH	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
CONSTRUCTION DETAILS

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	2010-081-R	COOK	1045	200
CONTRACT NO. 60L72				
ILLINOIS FED. AID PROJECT				