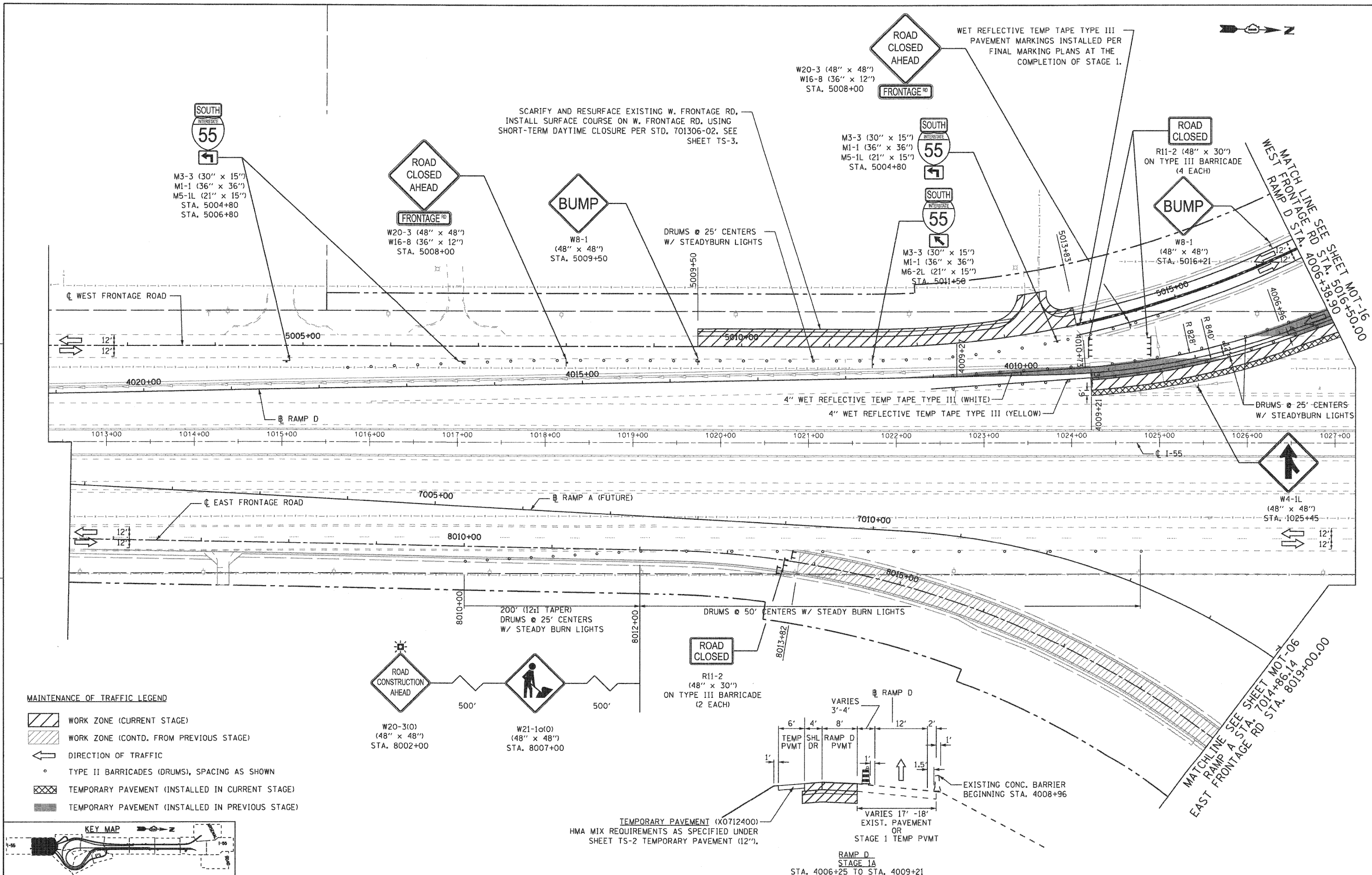
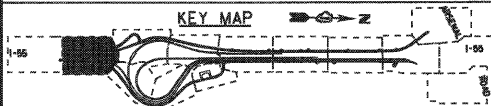


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- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...ND160C31-SHT-STAGING1A02.dgn	USER NAME = gres	DESIGNED - GR	REVISED -
PLOT SCALE = 1/8"=1'-0"	PLOT DATE = 12/18/2009	DRAWN - GR	REVISED -
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		DATE - 12/18/2009	REVISED -

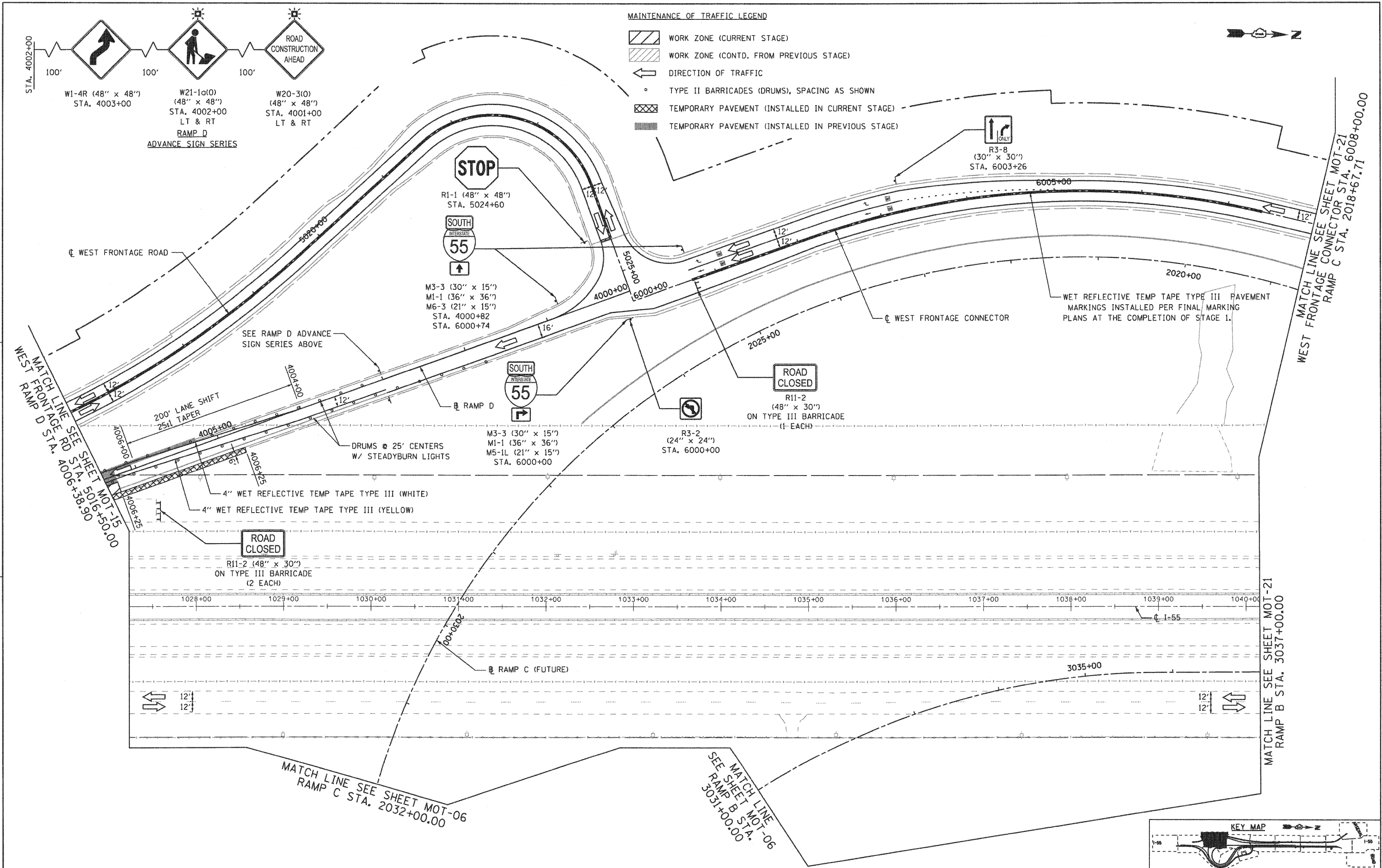
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1A**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	101
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

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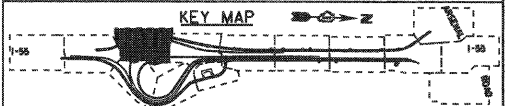
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		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 1A**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	102
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



FINAL

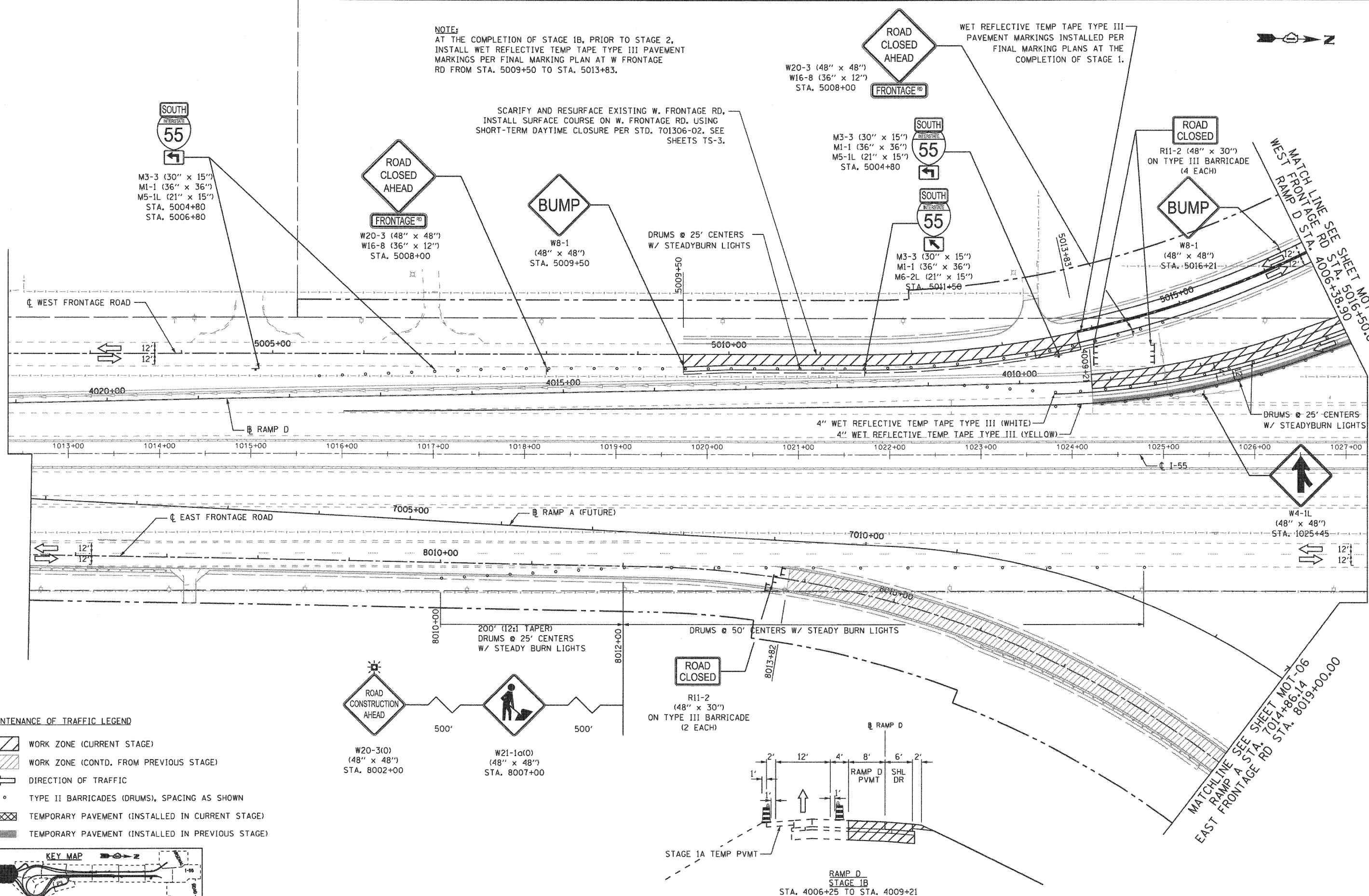
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Chicago, Illinois 60607



NOTE:
AT THE COMPLETION OF STAGE 1B, PRIOR TO STAGE 2,
INSTALL WET REFLECTIVE TEMP TAPE TYPE III PAVEMENT
MARKINGS PER FINAL MARKING PLAN AT W FRONTAGE
RD FROM STA. 5009+50 TO STA. 5013+83.

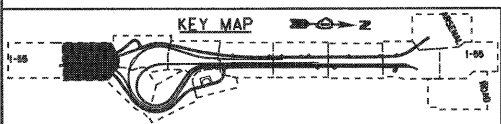
SCARIFY AND RESURFACE EXISTING W. FRONTAGE RD,
INSTALL SURFACE COURSE ON W. FRONTAGE RD. USING
SHORT-TERM DAYTIME CLOSURE PER STD. 701306-02. SEE
SHEETS TS-3.

WET REFLECTIVE TEMP TAPE TYPE III
PAVEMENT MARKINGS INSTALLED PER
FINAL MARKING PLANS AT THE
COMPLETION OF STAGE 1.



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME =	USER NAME = gres
... \D160C31-SHT-STAGING1802.dgn	
PLOT SCALE = 1:500	
PLOT DATE = 12/16/2009	

DESIGNED - GR	REVISED -
DRAWN - GR	REVISED -
CHECKED - RY	REVISED -
DATE - 12/18/2009	REVISED -

DESIGNED - GR	REVISED -
DRAWN - GR	REVISED -
CHECKED - RY	REVISED -
DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

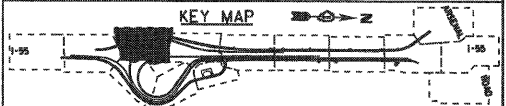
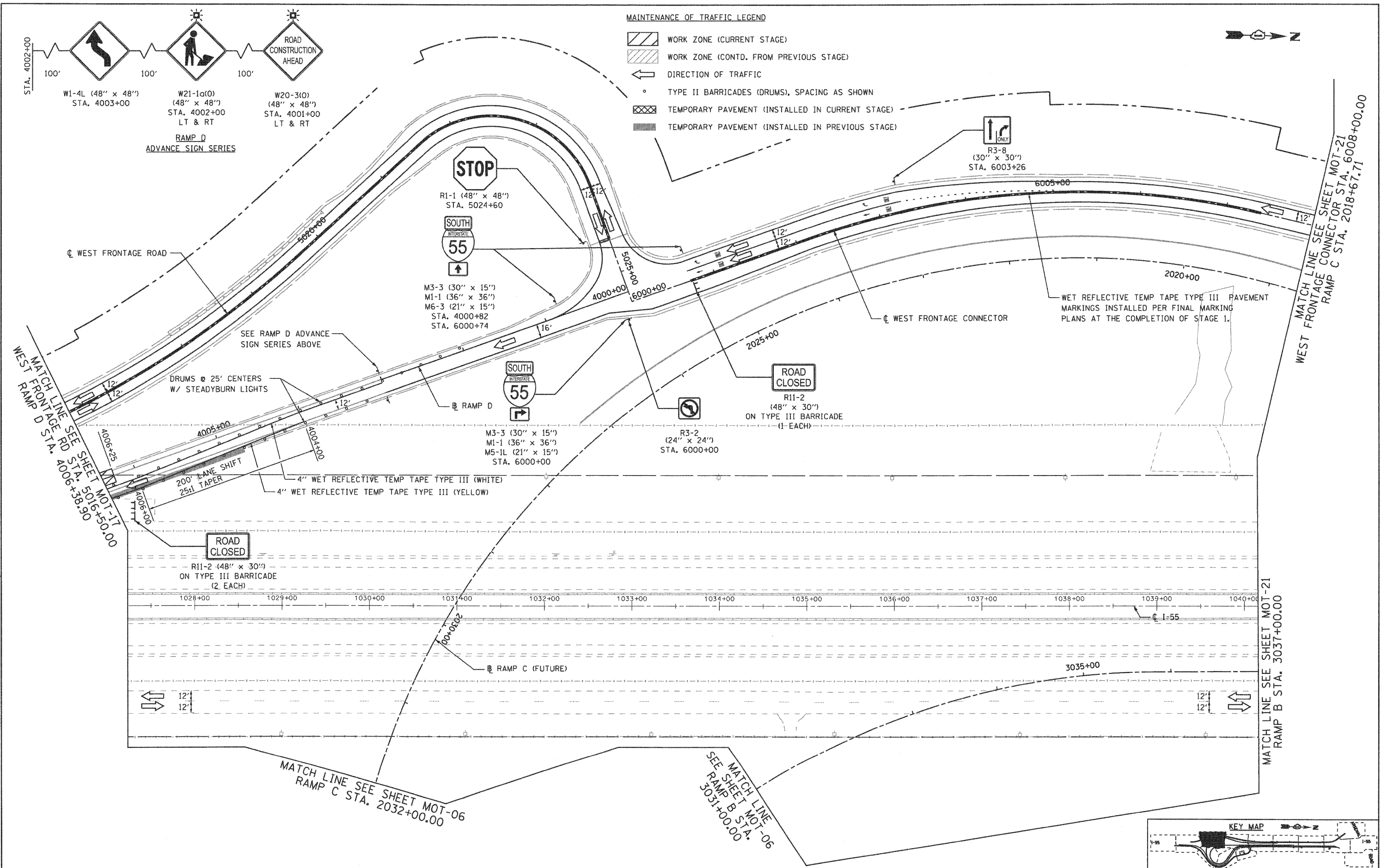
**MAINTENANCE OF TRAFFIC
STAGE 1B**

SCALE: 1"=50' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	103
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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FILE NAME = ...ND160C31-SHT-STAGINGIB03.dgn
 USER NAME = grol
 PLOT SCALE = 1/8"=1'-0"
 PLOT DATE = 12/16/2009

DESIGNED - GR	REVISED -
DRAWN - GR	REVISED -
CHECKED - RY	REVISED -
DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

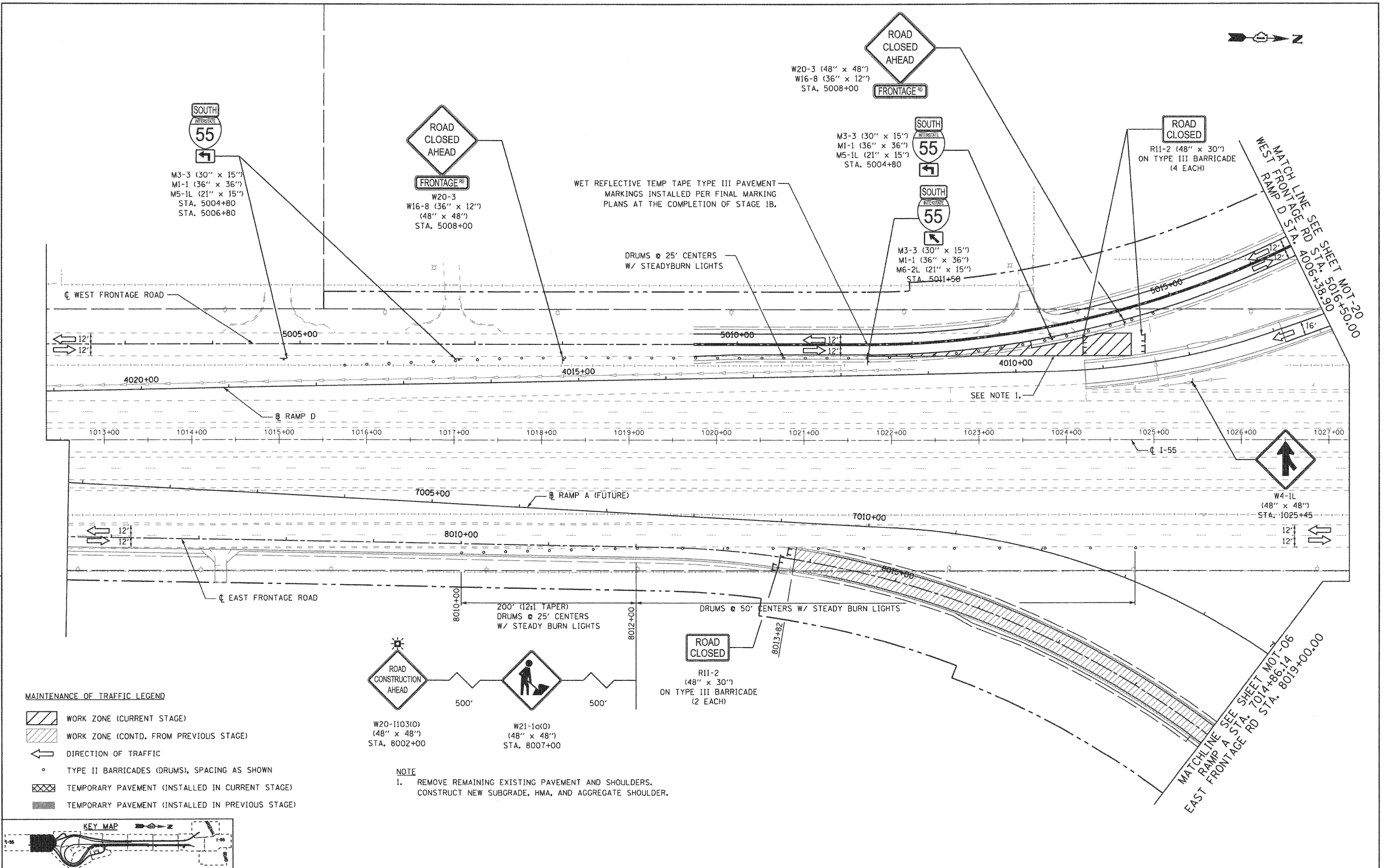
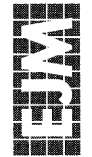
**MAINTENANCE OF TRAFFIC
 STAGE 1B**

SCALE: 1"=50' SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	104
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

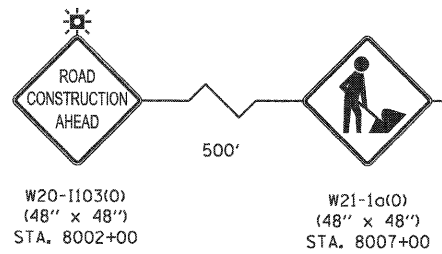
FINAL

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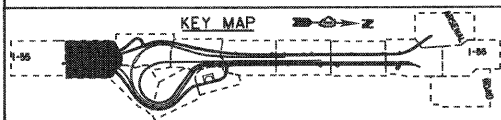
MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



NOTE

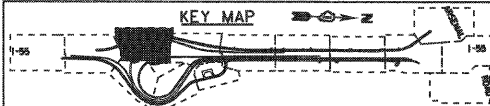
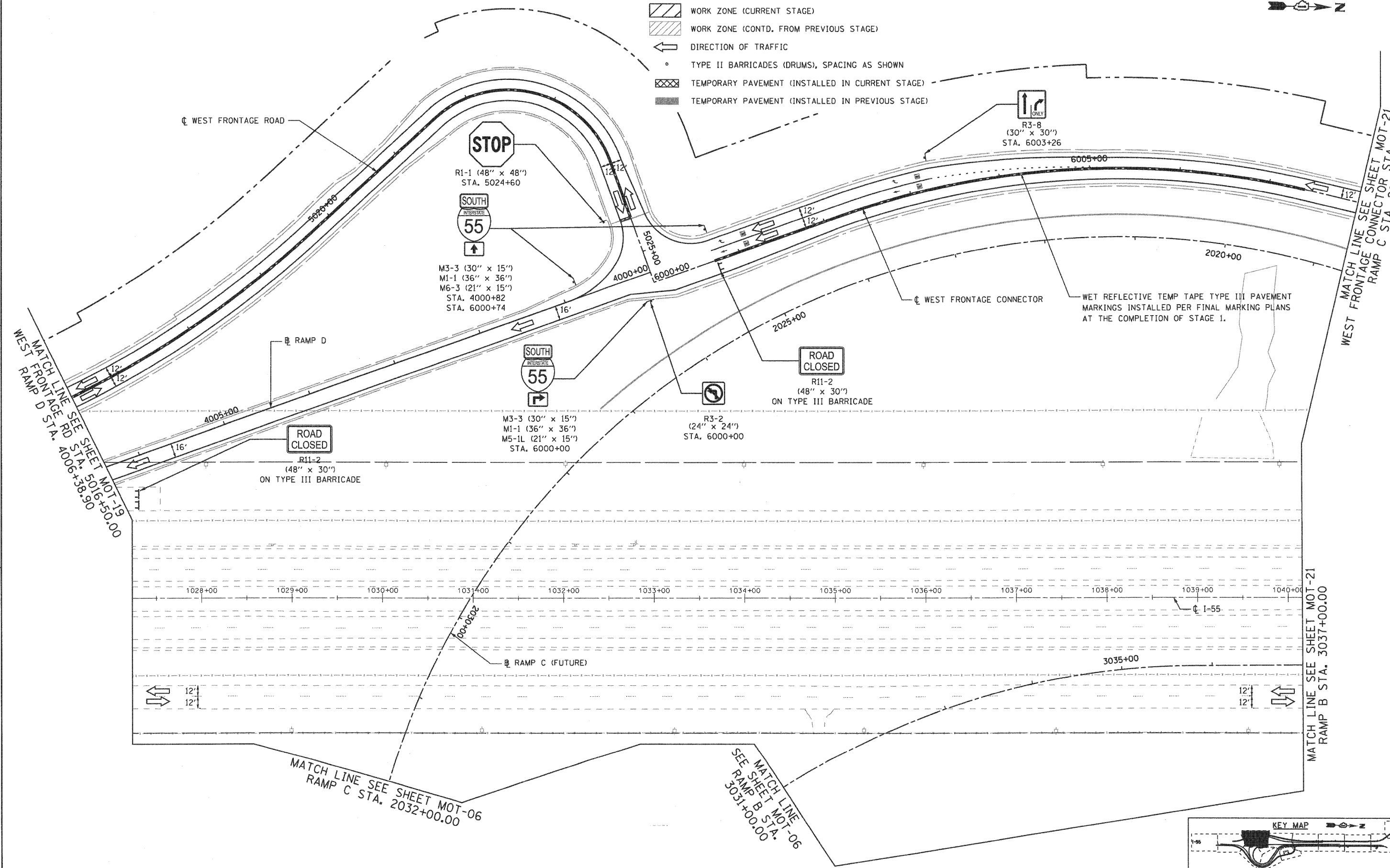
1. REMOVE REMAINING EXISTING PAVEMENT AND SHOULDERS. CONSTRUCT NEW SUBGRADE, HMA, AND AGGREGATE SHOULDER.



FILE NAME = ...ND160C31-SHT-STAGING202.dgn	USER NAME = gra	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2			F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 105
	PLOT SCALE = 1/80	DRAWN - GR	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31			
	PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 12/18/2009	REVISED -		FINAL							

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- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...\\D160C31-SHT-STAGING203.dgn	USER NAME = grom	DESIGNED - GR	REVISED -
PLOT SCALE = 1/8"		DRAWN - GR	REVISED -
PLOT DATE = 12/16/2009		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

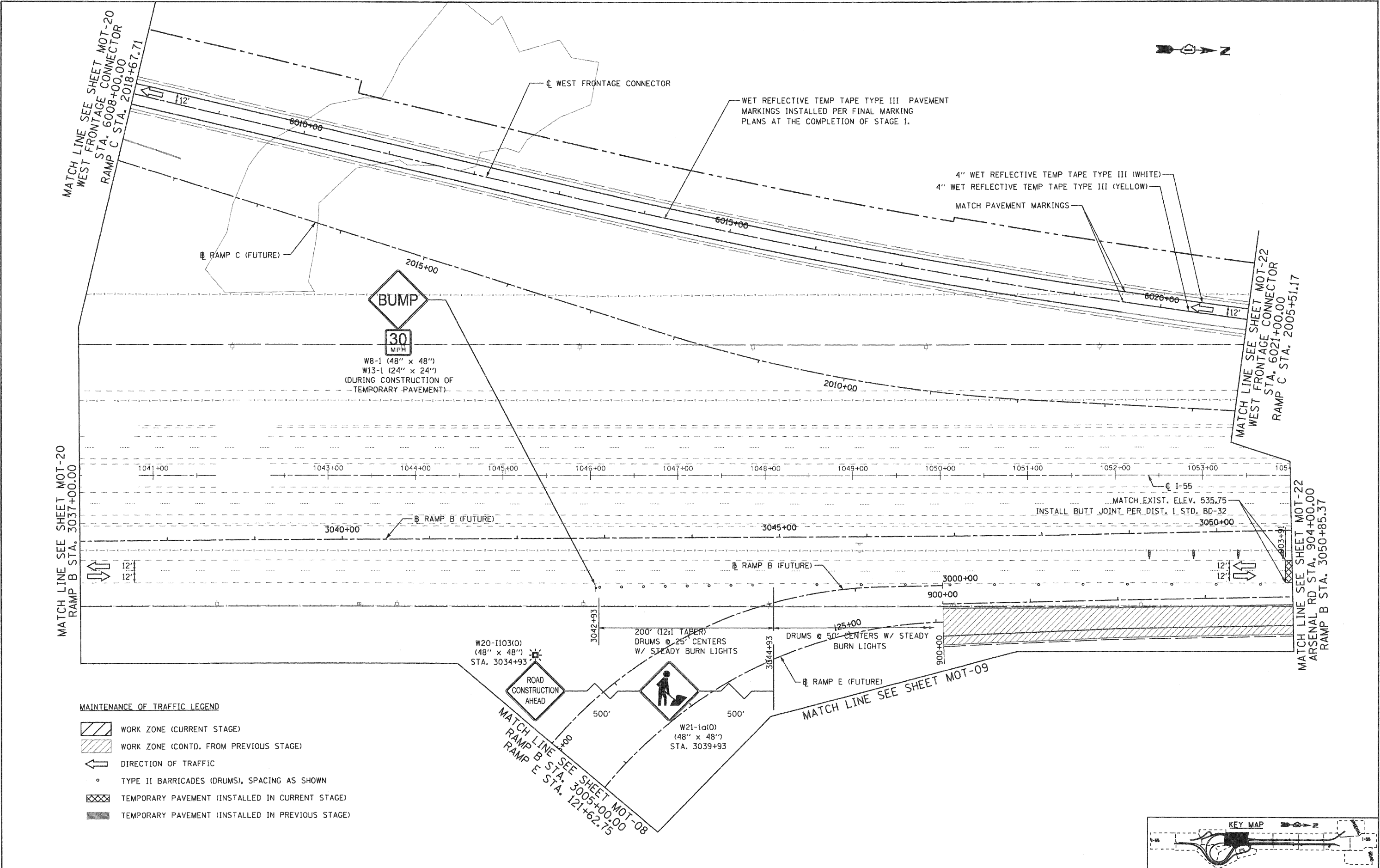
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 2**

SCALE: 1"=50' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

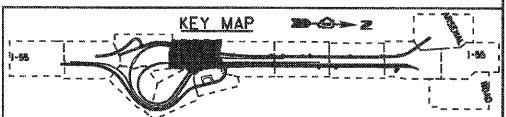
F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 106
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME =	USER NAME = grol
...ND160C31-SHT-STAGING205.dgn	
PLOT SCALE = 1:50	PLOT DATE = 12/16/2009

DESIGNED - GR	REVISED -
DRAWN - GR	REVISED -
CHECKED - RY	REVISED -
DATE - 12/18/2009	REVISED -







**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

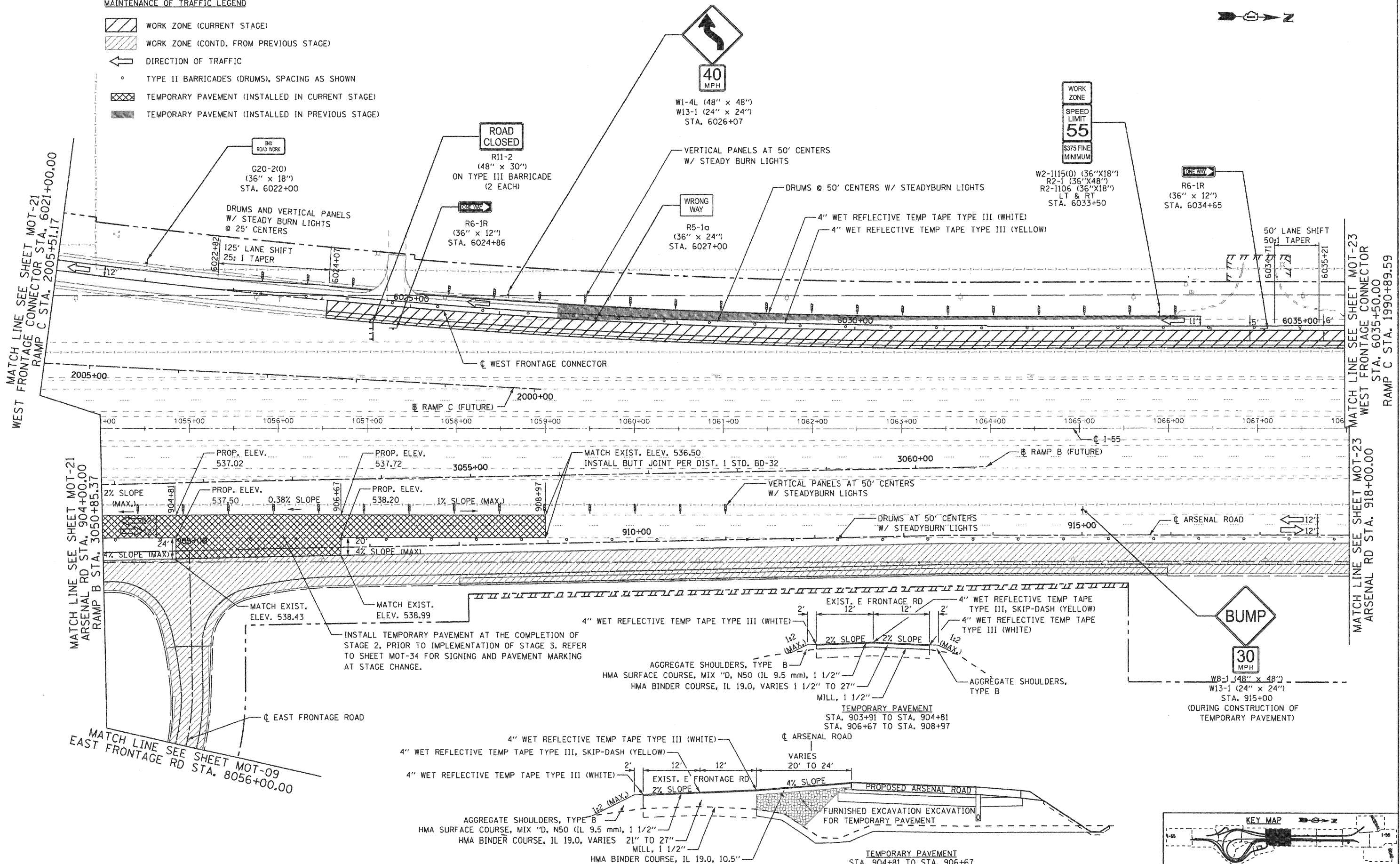
MAINTENANCE OF TRAFFIC STAGE 2	
SCALE: 1"=50'	SHEET NO. 3 OF 8 SHEETS
STA. _____	TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	107
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL

MAINTENANCE OF TRAFFIC LEGEND

-  WORK ZONE (CURRENT STAGE)
-  WORK ZONE (CONTD. FROM PREVIOUS STAGE)
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
-  TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
-  TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



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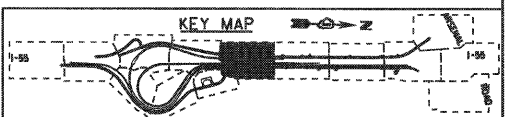
MATCH LINE SEE SHEET MOT-21
 WEST FRONTAGE CONNECTOR STA. 6021+00.00
 RAMP C STA. 2005+51.17

MATCH LINE SEE SHEET MOT-21
 ARSENAL RD STA. 904+00.00
 RAMP B STA. 3050+85.37

MATCH LINE SEE SHEET MOT-09
 EAST FRONTAGE RD STA. 8056+00.00

MATCH LINE SEE SHEET MOT-23
 WEST FRONTAGE CONNECTOR STA. 6035+50.00
 RAMP C STA. 1990+89.59

MATCH LINE SEE SHEET MOT-23
 ARSENAL RD STA. 918+00.00



FILE NAME =	USER NAME = gao	DESIGNED - GR	REVISED -
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	PLOT SCALE = 1/8"=1'	CHECKED - RY	REVISED -
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC STAGE 2			
SCALE: 1"=50'	SHEET NO. 4 OF 8 SHEETS	STA. _____	TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	108
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



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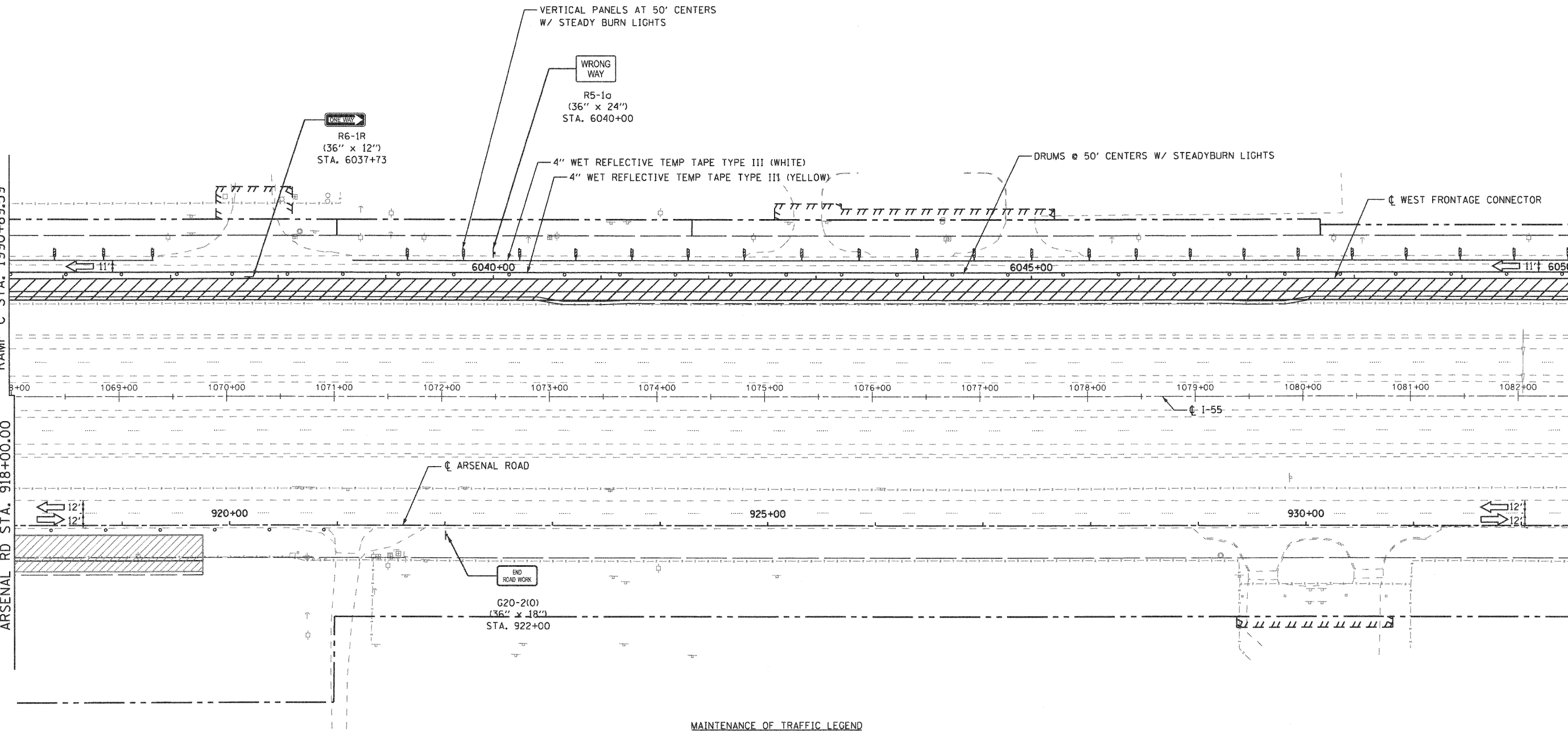


MATCH LINE SEE SHEET MOT-22
 WEST FRONTAGE CONNECTOR
 STA. 6035+50.00
 RAMP C STA. 1990+89.59

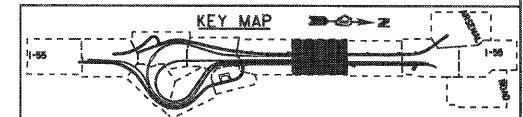
MATCH LINE SEE SHEET MOT-22
 ARSENAL RD STA. 918+00.00

MATCH LINE SEE SHEET MOT-24
 WEST FRONTAGE CONNECTOR
 STA. 6050+00.00

MATCH LINE SEE SHEET MOT-24
 ARSENAL RD STA. 932+50.00



- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...ND160C31-SHT-STAG1NG209.dgn	USER NAME = gpa1	DESIGNED - GR	REVISED -
	PLOT SCALE = 1:50	DRAWN - GR	REVISED -
	PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

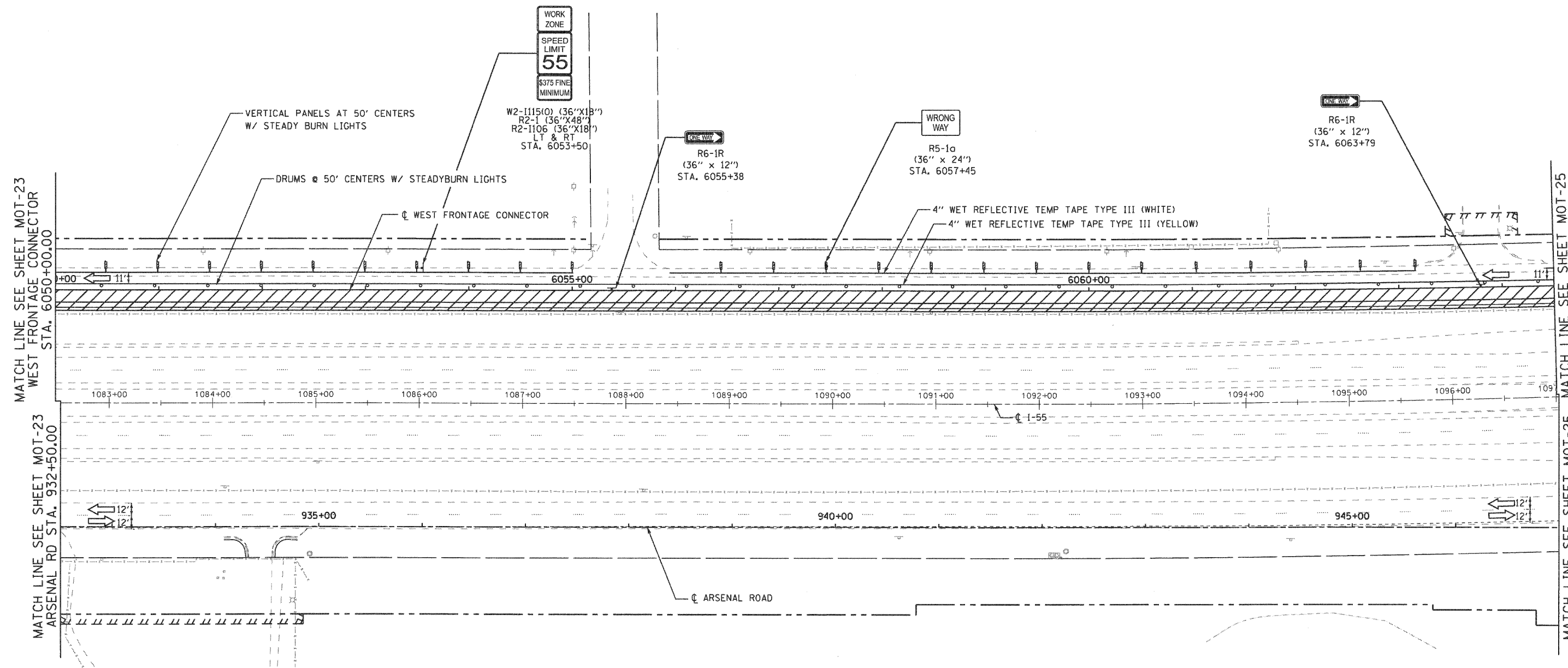
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 2**

SCALE: 1"=50' SHEET NO. 5 OF 8 SHEETS STA. TO STA.

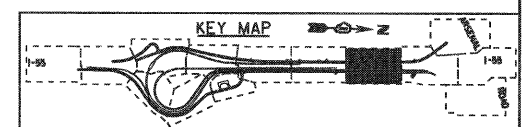
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	109
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



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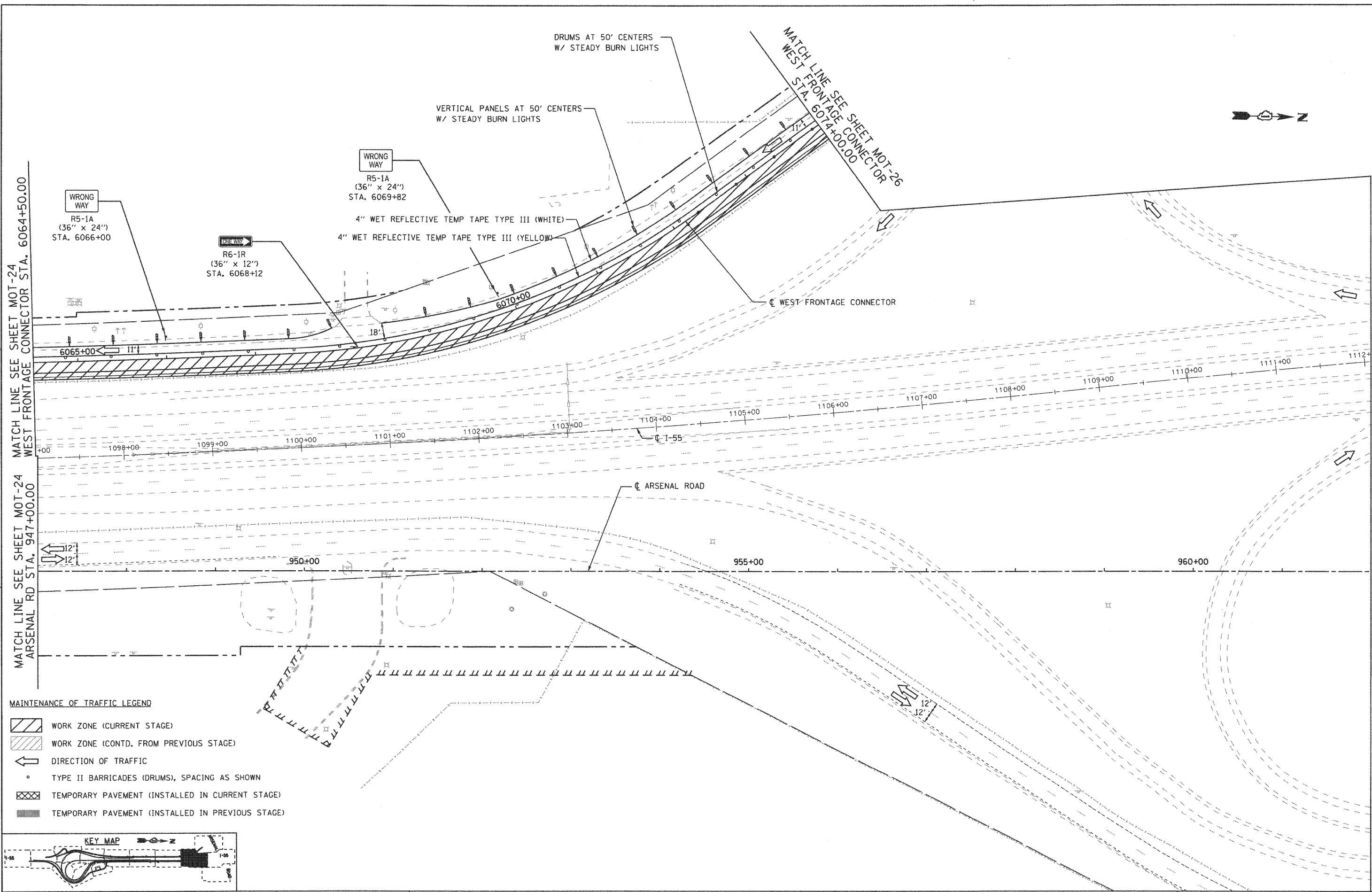
- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



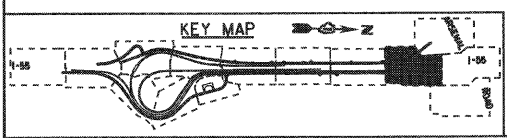
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	PLOT SCALE = 1/8"=1'-0"	DRAWN - GR	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31			
	PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							
		DATE - 12/18/2009	REVISED -									

FINAL

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- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...ND160C31-SHT-STAGING211.dgn

USER NAME = grom	DESIGNED - GR	REVISED -
PLLOT SCALE = 1/8"=1'-0"	DRAWN - GR	REVISED -
PLLOT DATE = 12/16/2009	CHECKED - RY	REVISED -
	DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

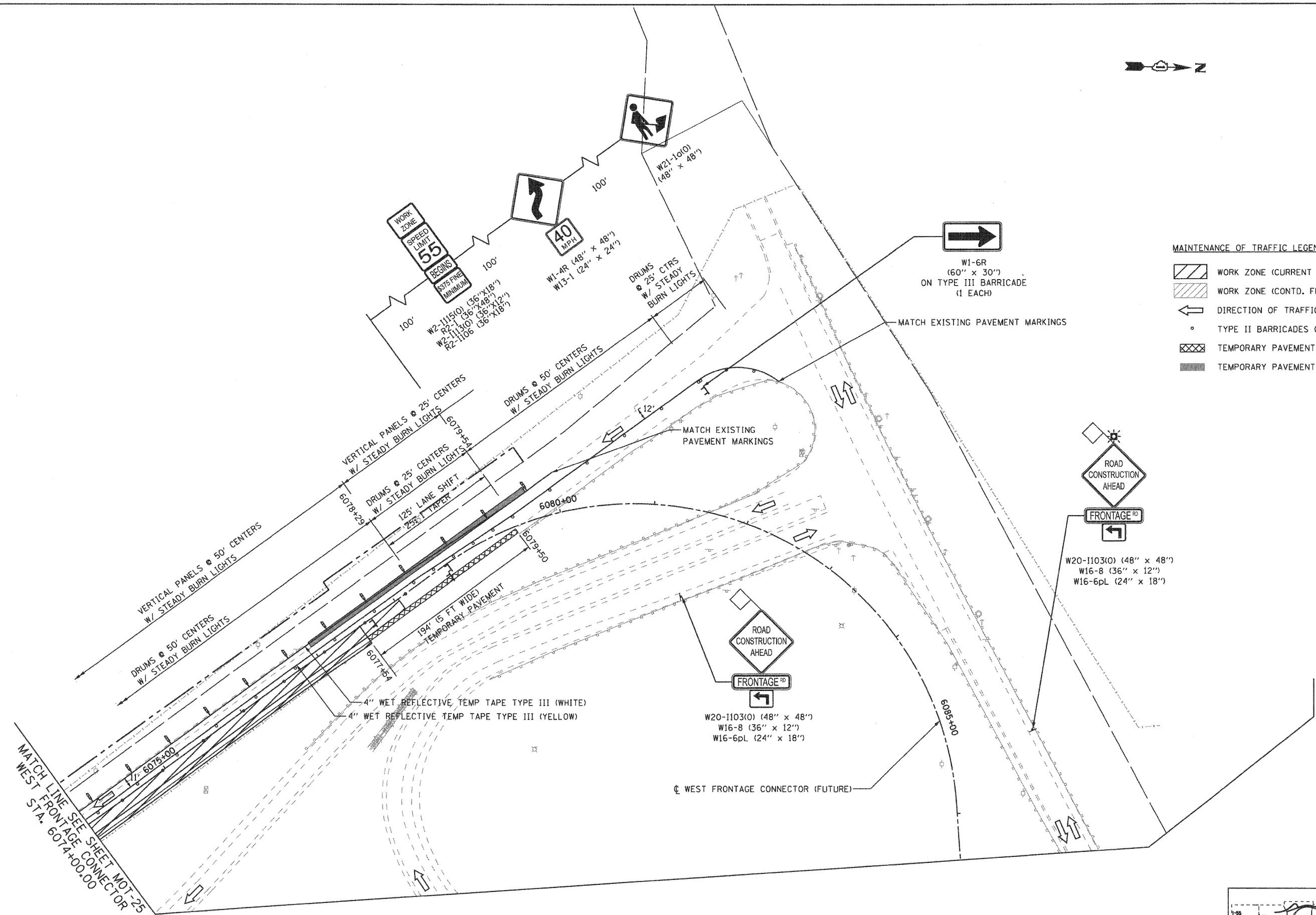
**MAINTENANCE OF TRAFFIC
 STAGE 2**

SCALE: 1"=50' SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	111
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

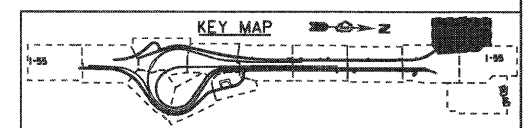
FINAL

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- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)

MATCH LINE SEE SHEET MOT-25
 WEST STA. 6074+00.00



FILE NAME = ...ND160C31-SHT-STAGING212.dgn	USER NAME = gra1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

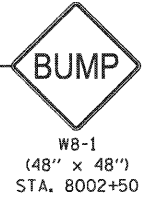
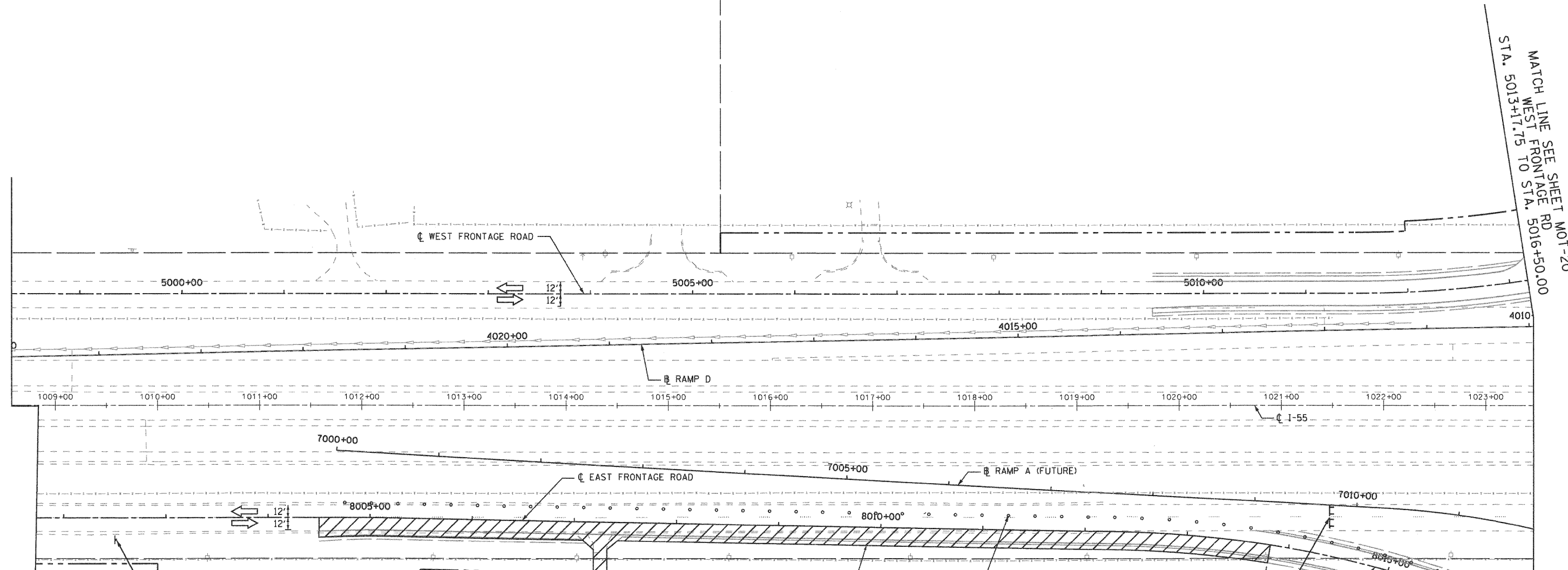
**MAINTENANCE OF TRAFFIC
 STAGE 2**

SCALE: 1"=50' SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	112
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

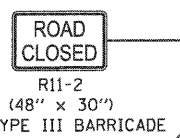
FINAL

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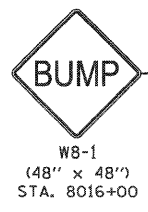


SCARIFY AND RESURFACE EXISTING E. FRONTAGE RD,
 INSTALL SURFACE COURSE ON E. FRONTAGE RD, USING
 SHORT-TERM DAYTIME CLOSURE PER STD. 701306-02. SEE
 SHEET TS-3.

DRUMS @ 25' CENTERS
 W/ STEADYBURN LIGHTS

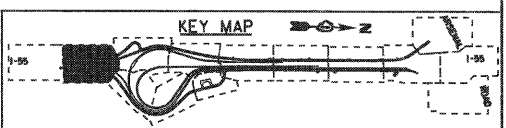


WET REFLECTIVE TEMP TAPE TYPE III PAVEMENT
 MARKINGS INSTALLED PER FINAL MARKING
 PLANS AT THE COMPLETION OF STAGE 2.



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...\\D160C31-SHT-STAGING2A02.dgn	USER NAME = gex	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

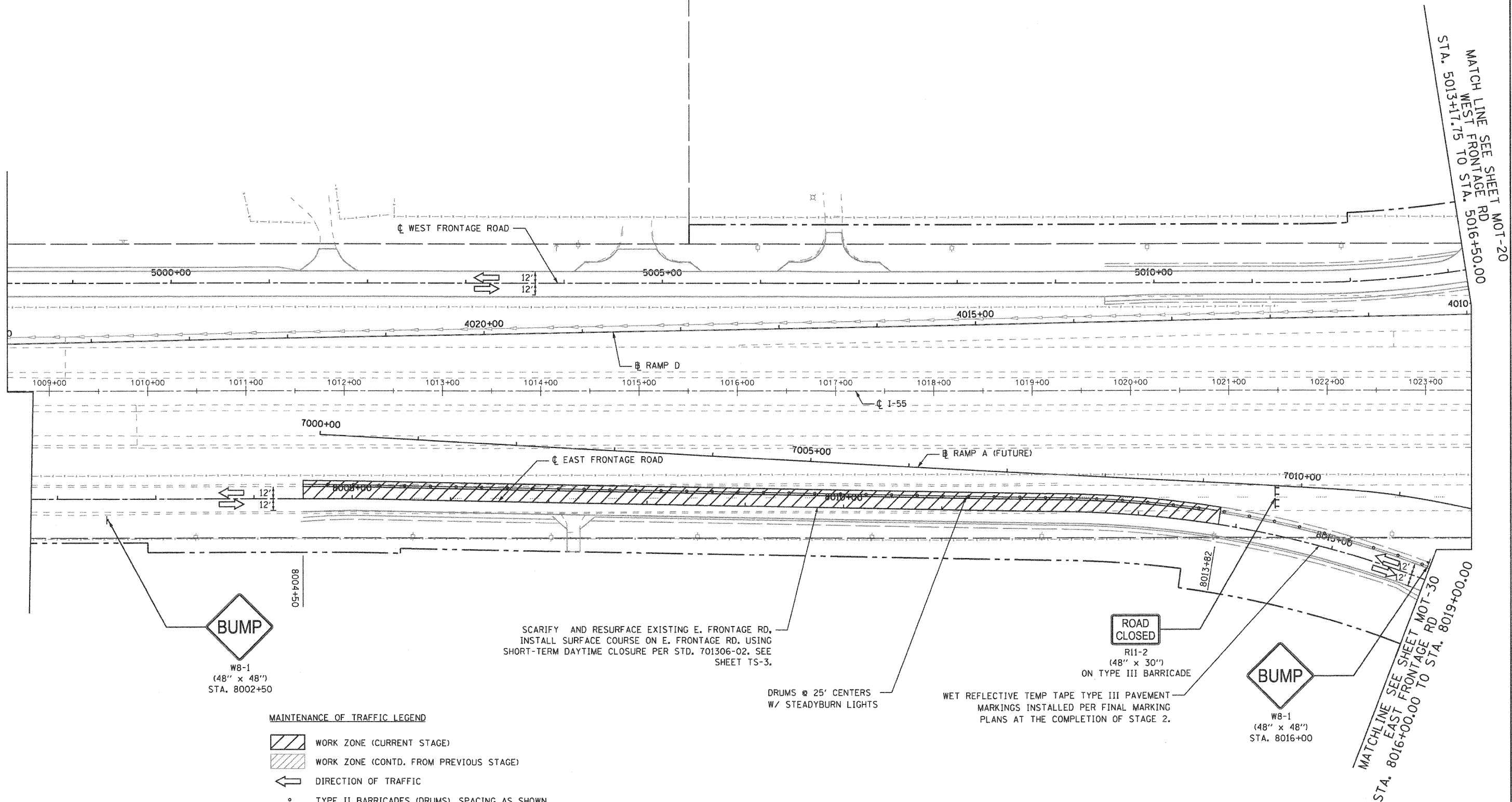
**MAINTENANCE OF TRAFFIC
 STAGE 2A**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	113
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



BUMP
W8-1
(48" x 48")
STA. 8002+50

SCARIFY AND RESURFACE EXISTING E. FRONTAGE RD.
INSTALL SURFACE COURSE ON E. FRONTAGE RD. USING
SHORT-TERM DAYTIME CLOSURE PER STD. 701306-02. SEE
SHEET TS-3.

DRUMS @ 25' CENTERS
W/ STEADYBURN LIGHTS

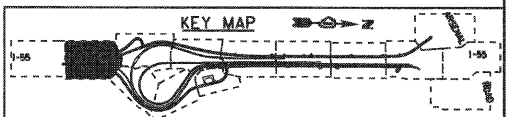
ROAD CLOSED
R11-2
(48" x 30")
ON TYPE III BARRICADE

BUMP
W8-1
(48" x 48")
STA. 8016+00

MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)

NOTE:
AT THE COMPLETION OF STAGE 2B, PRIOR TO STAGE 3, INSTALL
WET REFLECTIVE TEMP TAPE TYPE III PAVEMENT MARKINGS PER
FINAL MARKING PLAN AT W FRONTAGE RD FROM STA. 8004+50
TO STA. 8013+82..



FILE NAME =
...\\D160C31-SHT-STAGING2802.dgn

USER NAME = gra1
PLOT SCALE = 1:50
PLOT DATE = 12/16/2009

DESIGNED - GR
DRAWN - GR
CHECKED - RY
DATE - 12/18/2009

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2B**

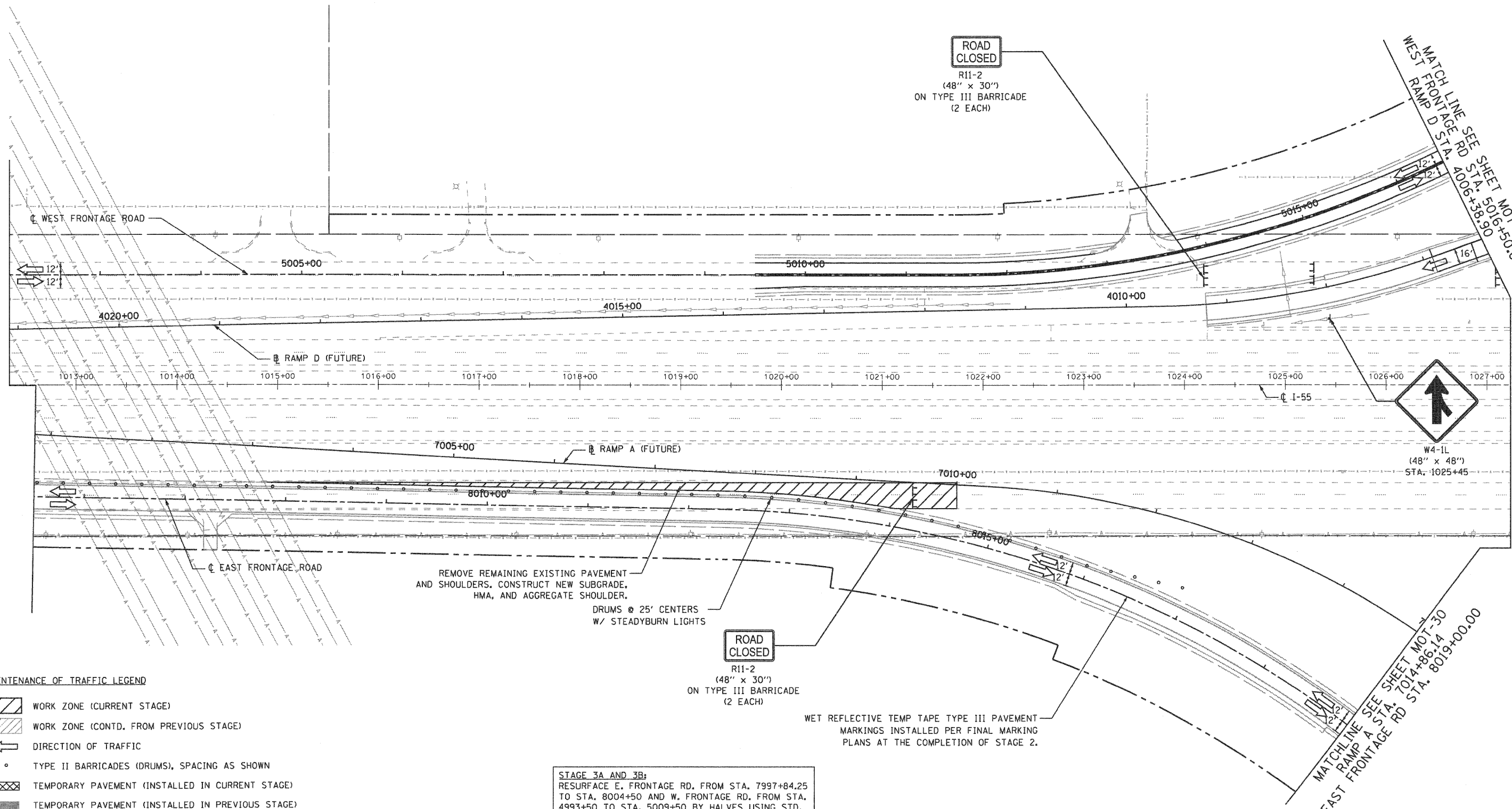
SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	114
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

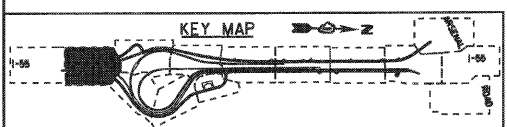
FINAL



EJM ENGINEERING, INC.
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 Chicago, Illinois 60607



- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



STAGE 3A AND 3B:
 RESURFACE E. FRONTAGE RD. FROM STA. 7997+84.25 TO STA. 8004+50 AND W. FRONTAGE RD. FROM STA. 4993+50 TO STA. 5009+50 BY HALVES USING STD. 701306-02..

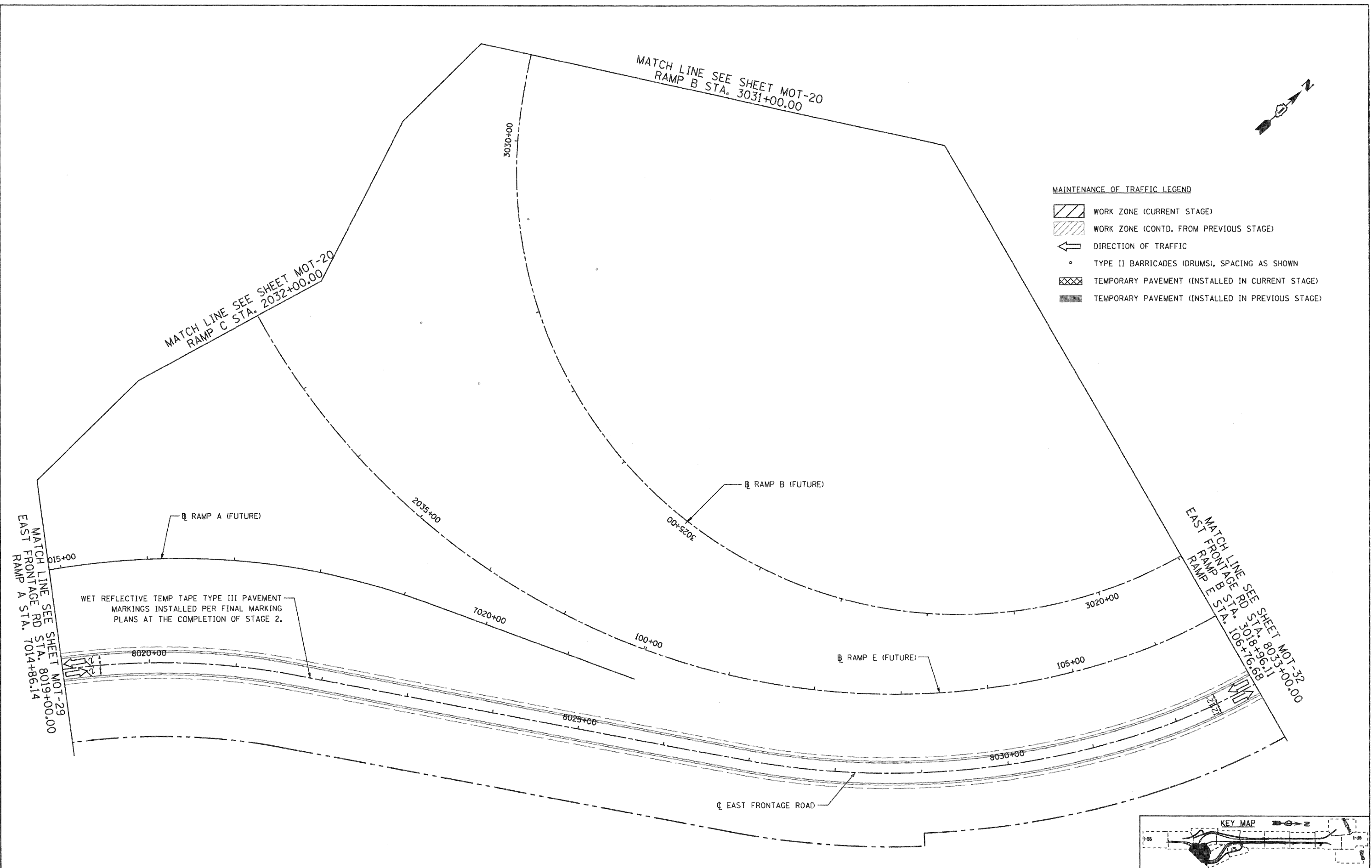
FILE NAME = ...ND160C31-SHT-STAGING3B2.dgn	USER NAME = grom	DESIGNED - GR	REVISED -
	PLOT SCALE = 1/8"=1'	DRAWN - GR	REVISED -
	PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

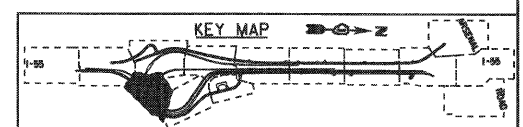
MAINTENANCE OF TRAFFIC STAGE 3	
SCALE: 1"=50'	SHEET NO. 1 OF 10 SHEETS
STA.	TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	115
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

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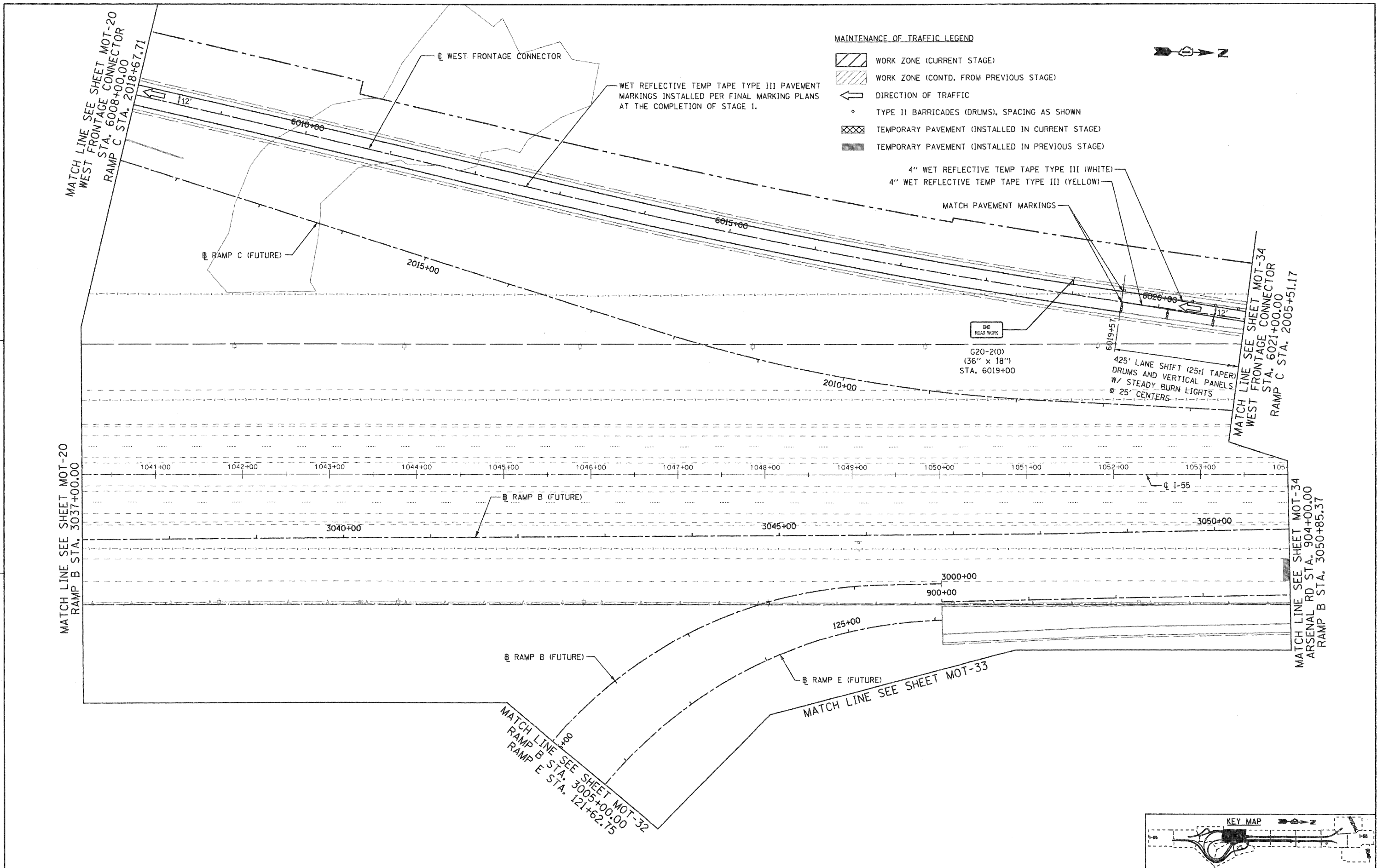
- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...\\D160C31-SHT-STAGING304.dgn	USER NAME = gao	DESIGNED - CR	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3			F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 116
	PLOT SCALE = 1/8"=1'-0"	CHECKED - RY	REVISIONS -		SCALE: 1"=50'	SHEET NO. 2 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISIONS -									

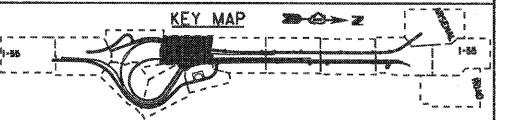
FINAL

EJM ENGINEERING, INC.
411 South Wells Street Suite 800
Chicago, Illinois 60607



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



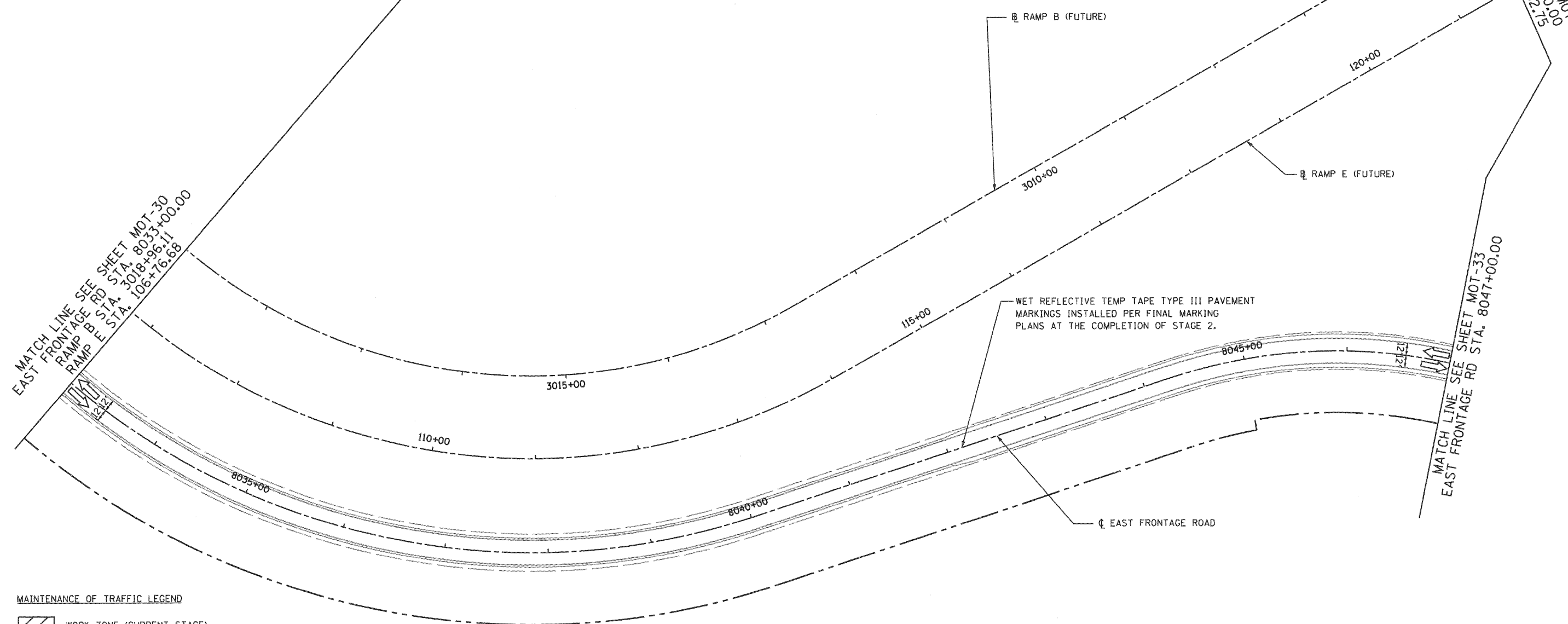
FILE NAME = ...ND160C31-SHT-STAGING305.dgn	USER NAME = gra	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLDT SCALE = 1:50	DRAWN - GR	REVISED -		55	(99-1&2)-3	WILL	524	117			
	PLDT DATE = 12/16/2009	CHECKED - RY	REVISED -		SCALE: 1"=50' SHEET NO. 3 OF 10 SHEETS STA. TO STA.			CONTRACT NO. 60C31				
	DATE - 12/18/2009	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

FINAL

MATCH LINE SEE SHEET MOT-30
 EAST FRONTAGE RD STA. 3018+96.11
 RAMP B STA. 8033+00.00
 RAMP E STA. 106+76.68

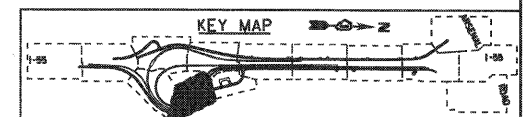
MATCH LINE SEE SHEET MOT-31
 RAMP B STA. 3005+00.00
 RAMP E STA. 121+62.75

MATCH LINE SEE SHEET MOT-33
 EAST FRONTAGE RD STA. 8047+00.00



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME =	USER NAME = gra1
...ND160C31-SHT-STAGING306.dgn	

DESIGNED - GR	REVISED -
DRAWN - GR	REVISED -
CHECKED - RY	REVISED -
DATE - 12/18/2009	REVISED -

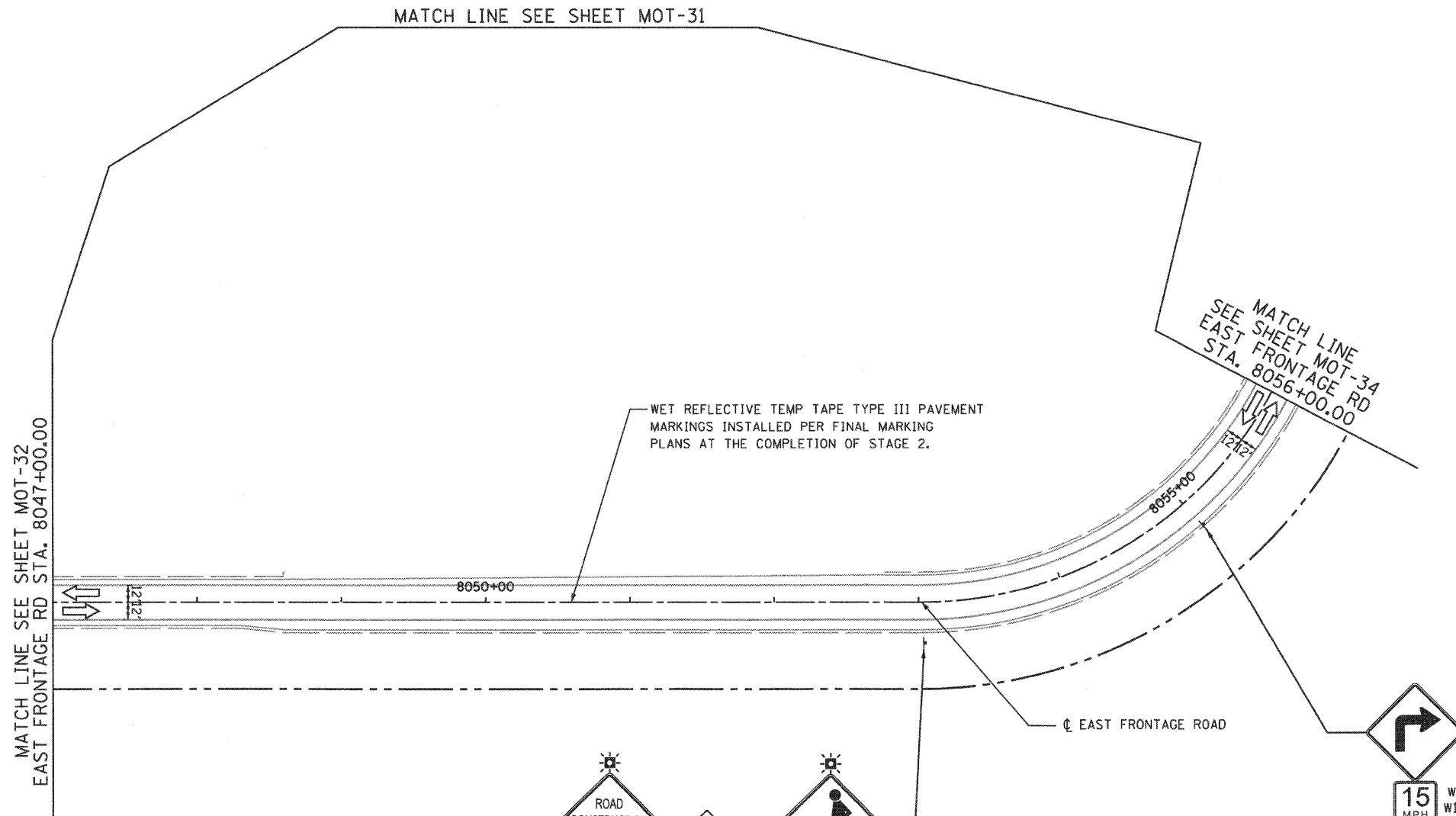
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 3**

SCALE: 1"=50' SHEET NO. 4 OF 10 SHEETS STA. TO STA.

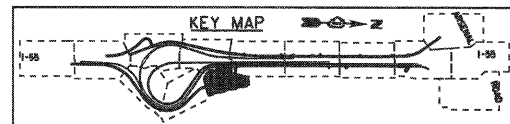
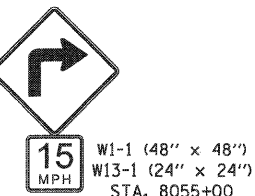
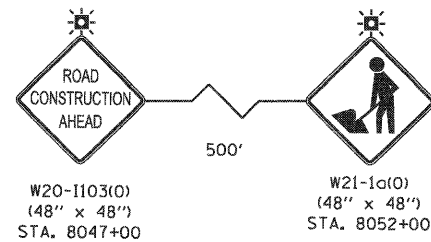
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	118
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



MAINTENANCE OF TRAFFIC LEGEND

- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...ND160C31-SHT-STAGING387.dgn	USER NAME = grai	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
	PLOT SCALE = 1/8\"/>		
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -

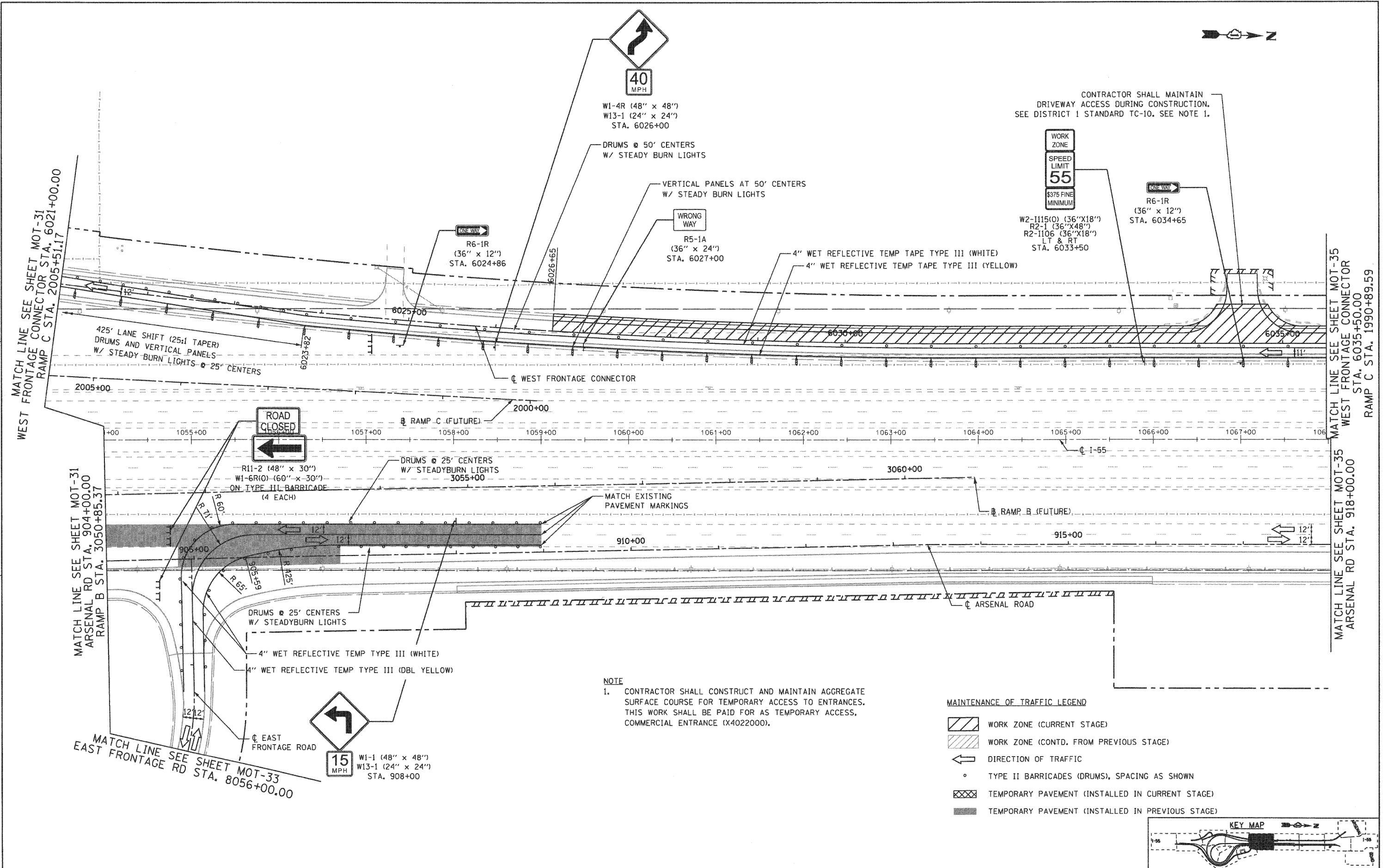
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 3**

SCALE: 1"=50' SHEET NO. 5 OF 10 SHEETS STA. TO STA.

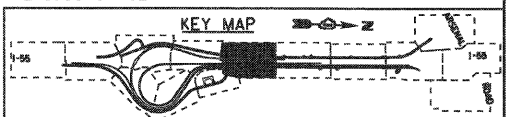
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	119
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



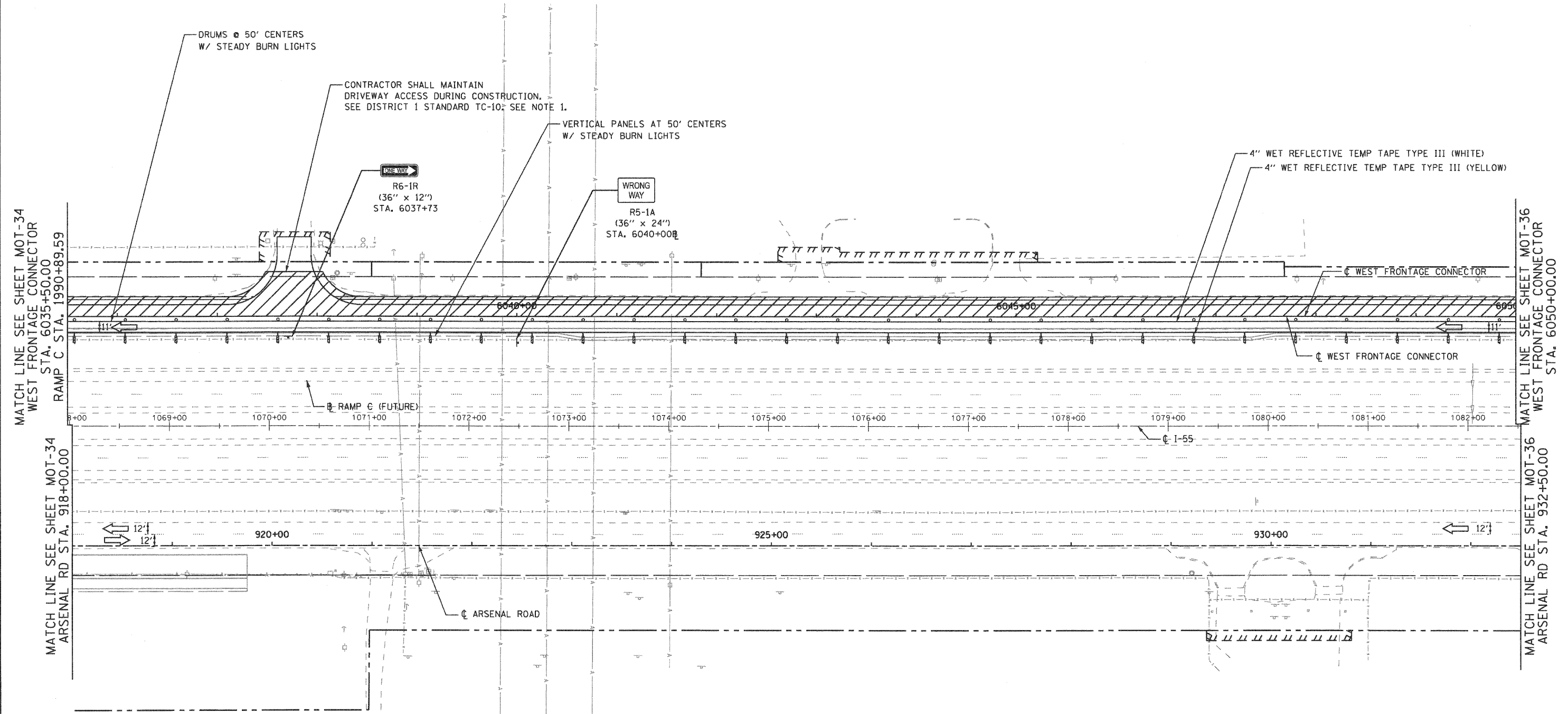
NOTE
 1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).

- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...\\D160C31-SHT-STAGING308.dgn	USER NAME = grai	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3			F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 120
	PLOT SCALE = 1:50	DRAWN - GR	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	
	PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -									
		DATE - 12/18/2009	REVISED -									

FINAL



MATCH LINE SEE SHEET MOT-34
WEST FRONTAGE CONNECTOR
STA. 6035+50.00
RAMP C STA. 1990+89.59

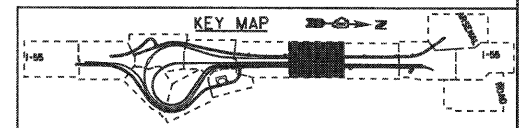
MATCH LINE SEE SHEET MOT-34
ARSENAL RD STA. 918+00.00

MATCH LINE SEE SHEET MOT-36
WEST FRONTAGE CONNECTOR
STA. 6050+00.00

MATCH LINE SEE SHEET MOT-36
ARSENAL RD STA. 932+50.00

NOTE
1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).

- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME =
...D160C31-SHT-STAGING309.dgn

USER NAME = gret
PLOT SCALE = 1:50
PLOT DATE = 12/16/2009

DESIGNED - GR
DRAWN - GR
CHECKED - RY
DATE - 12/18/2009

REVISED -
REVISED -
REVISED -
REVISED -

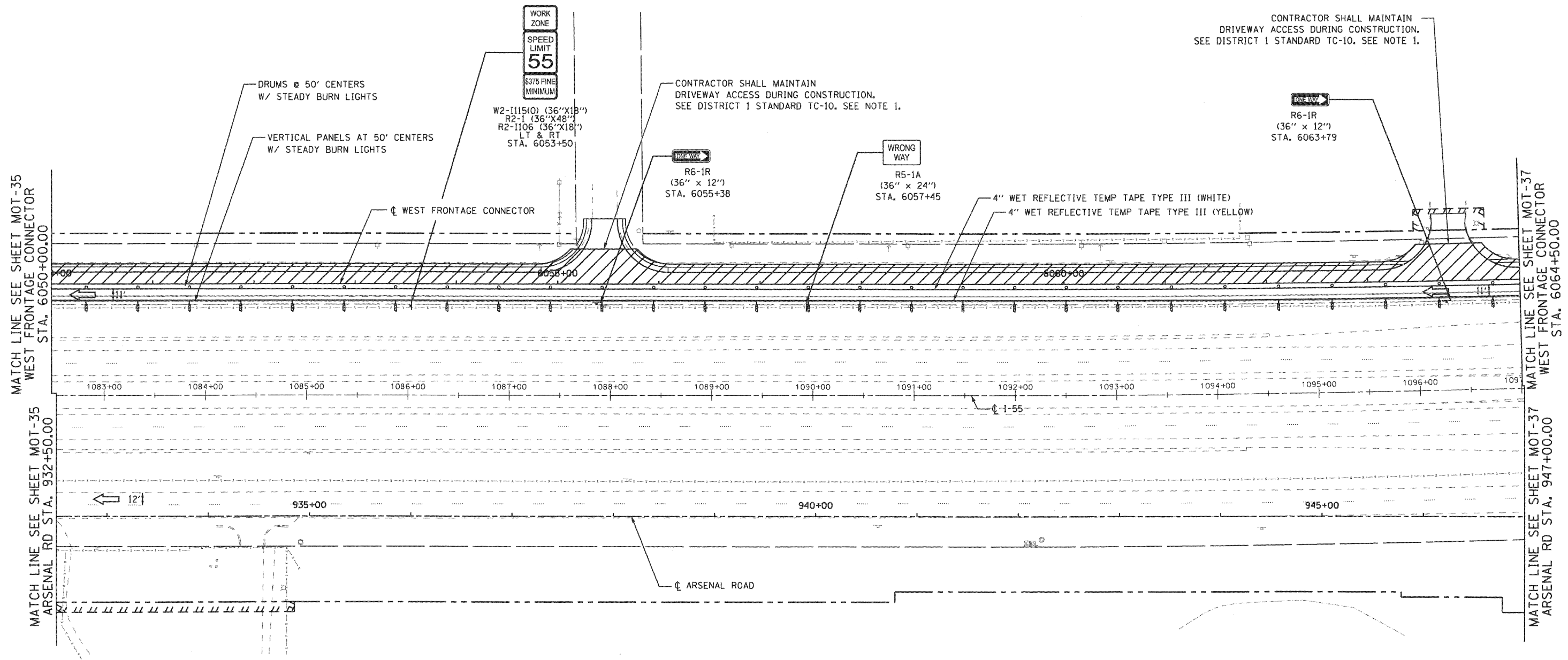
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 3**

SCALE: 1"=50' SHEET NO. 7 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	121
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



MATCH LINE SEE SHEET MOT-35
 WEST FRONTAGE CONNECTOR
 STA. 6050+00.00

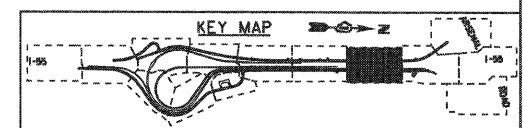
MATCH LINE SEE SHEET MOT-35
 ARSENAL RD STA. 932+50.00

MATCH LINE SEE SHEET MOT-37
 WEST FRONTAGE CONNECTOR
 STA. 6064+50.00

MATCH LINE SEE SHEET MOT-37
 ARSENAL RD STA. 947+00.00

NOTE
 1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).

- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME =	USER NAME = grol	DESIGNED - GR	REVISED -
...ND160C31-SHT-STAGING310.dgn		DRAWN - GR	REVISED -
	PLOT SCALE = 1/80	CHECKED - RY	REVISED -
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -

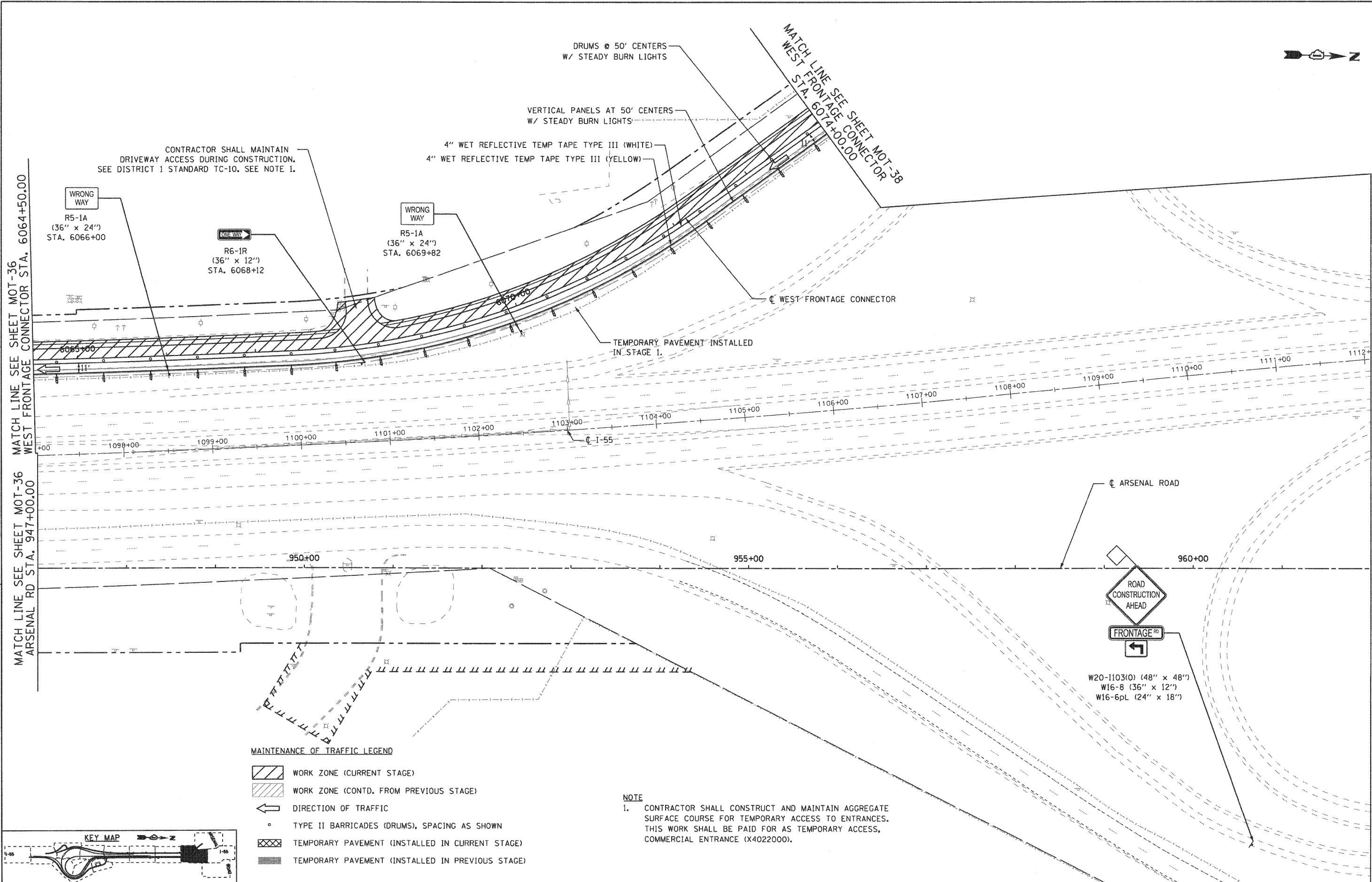
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 3**







SCALE: 1"=50' SHEET NO. 8 OF 10 SHEETS STA. TO STA.

F.A.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	122
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

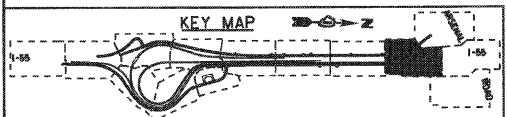
FINAL



MAINTENANCE OF TRAFFIC LEGEND

-  WORK ZONE (CURRENT STAGE)
-  WORK ZONE (CONTD. FROM PREVIOUS STAGE)
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
-  TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
-  TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)

NOTE
 1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).



FILE NAME = ...ND160C31-SHT-STAGING311.dgn	USER NAME = gpa1	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

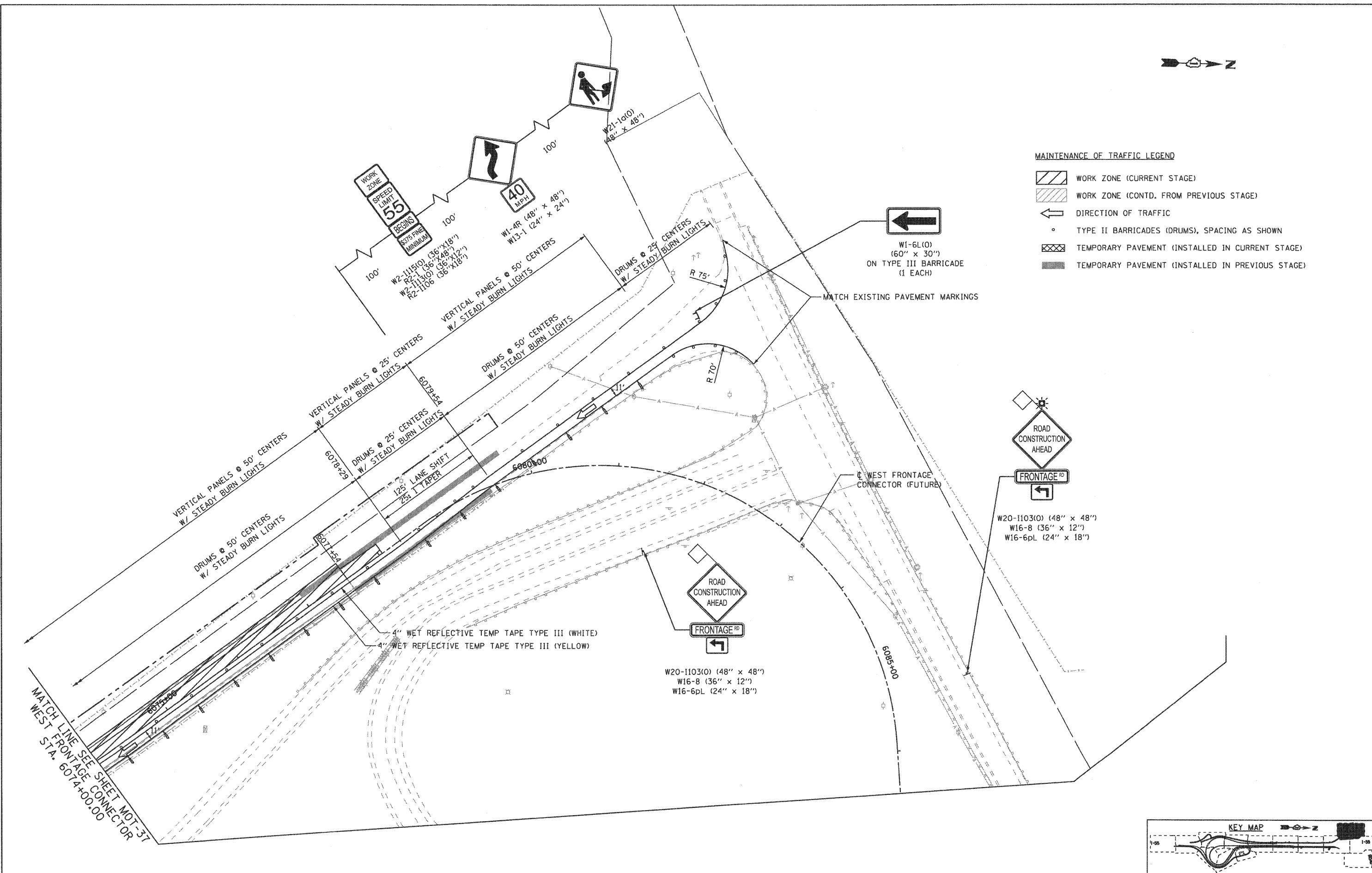
**MAINTENANCE OF TRAFFIC
 STAGE 3**

SCALE: 1"=50' SHEET NO. 9 OF 10 SHEETS STA. TO STA.

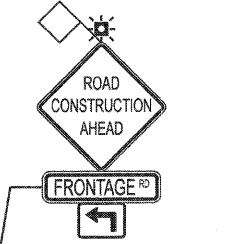
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	123
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	



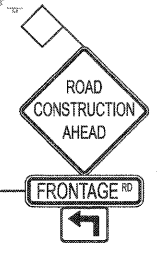
- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
 - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
 - DIRECTION OF TRAFFIC
 - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
 - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
 - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



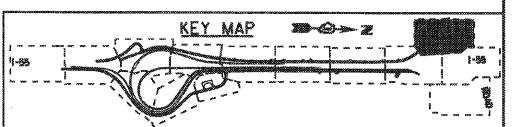
MATCH LINE SEE SHEET MOT-37
 WEST STA. 6074+00.00



W20-1103(O) (48" x 48")
 W16-8 (36" x 12")
 W16-6pL (24" x 18")

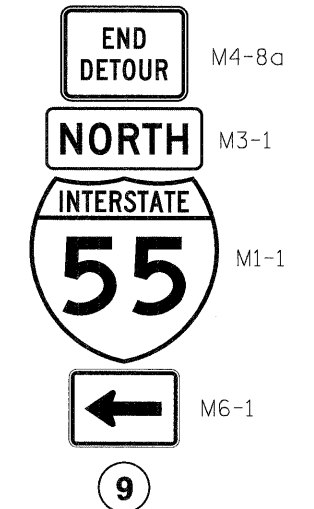
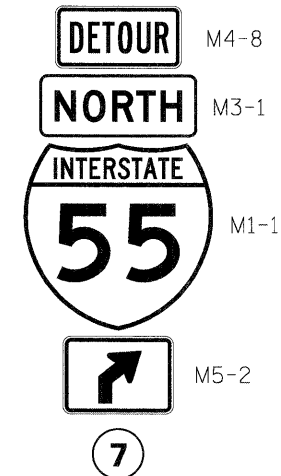
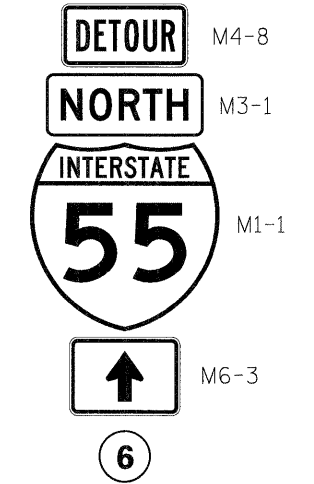
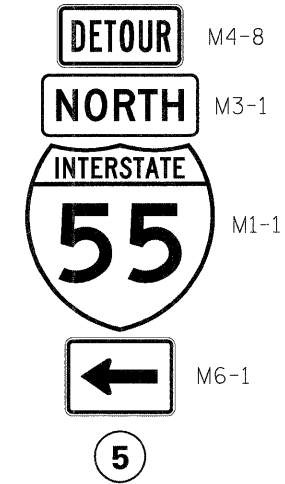
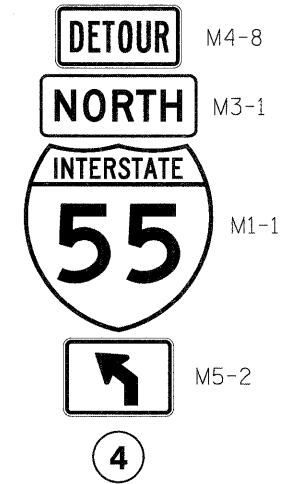
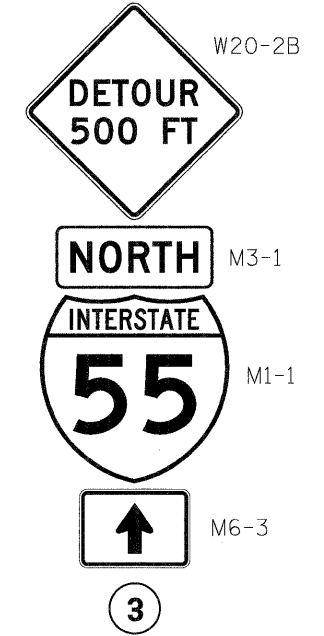
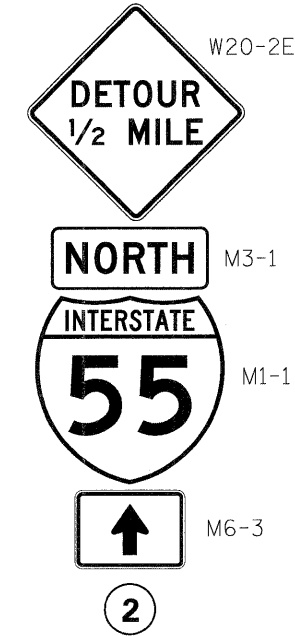
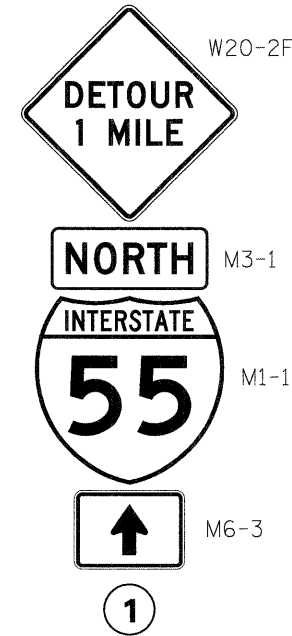
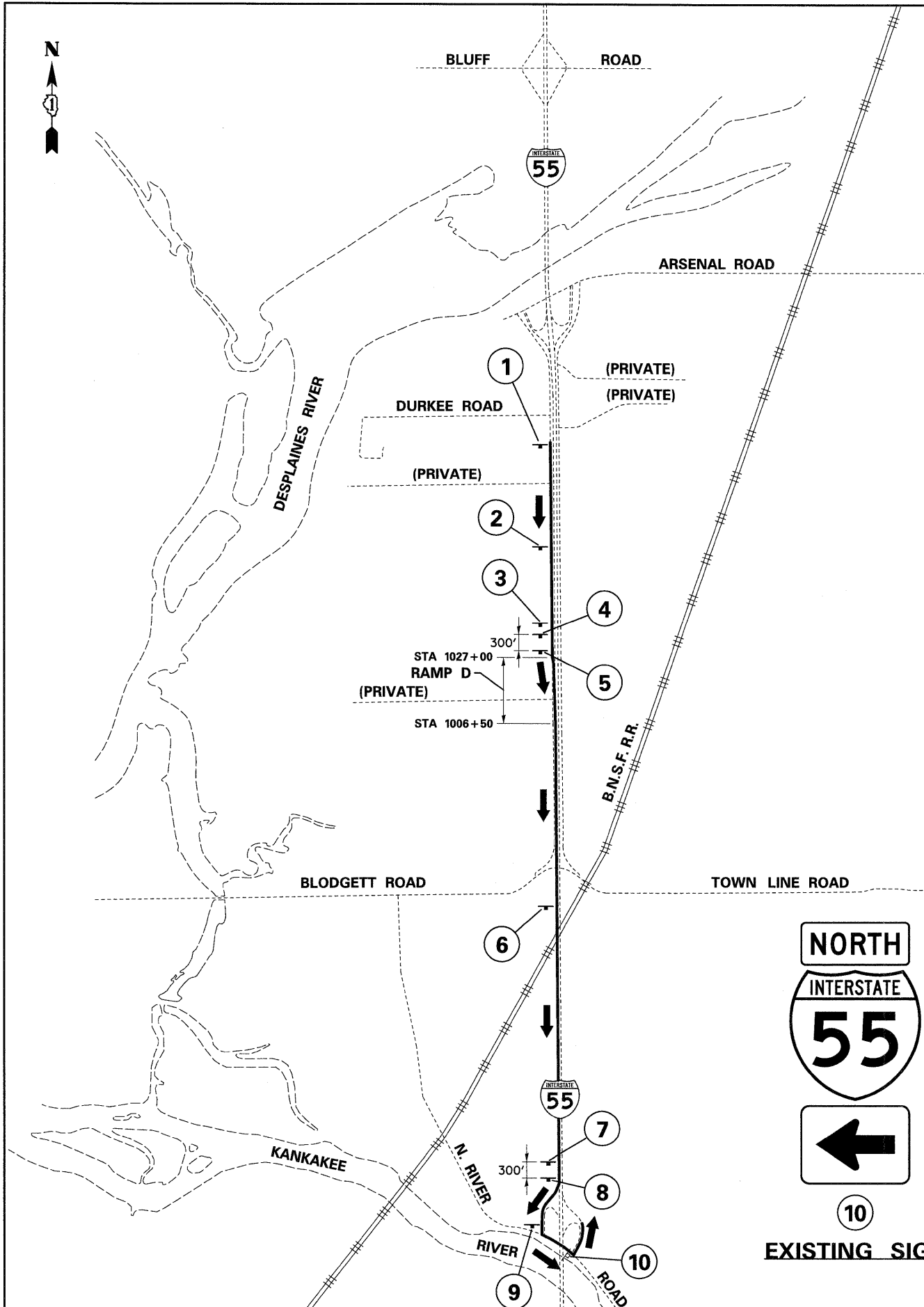


W20-1103(O) (48" x 48")
 W16-8 (36" x 12")
 W16-6pL (24" x 18")



FILE NAME = ...ND160C31-SHT-STAGING312.dgn	USER NAME = g-ra1	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 3		F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 124
	PLOT SCALE = 1/8"=1'-0"	CHECKED - RY	REVISED -		SCALE: 1"=50'	SHEET NO. 10 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31		
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -						FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		
MOT-38											

FINAL



FILE NAME = D162C31-SHT-DETOUR.dgn	USER NAME = TKluage1	DESIGNED - YK	REVISED -
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		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

PLOT SCALE = 1:30
PLOT DATE = 12/11/2009

DESIGNED - YK	REVISED -
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DATE - 12/18/09	REVISED -

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DRAWN - YK	REVISED -
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DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

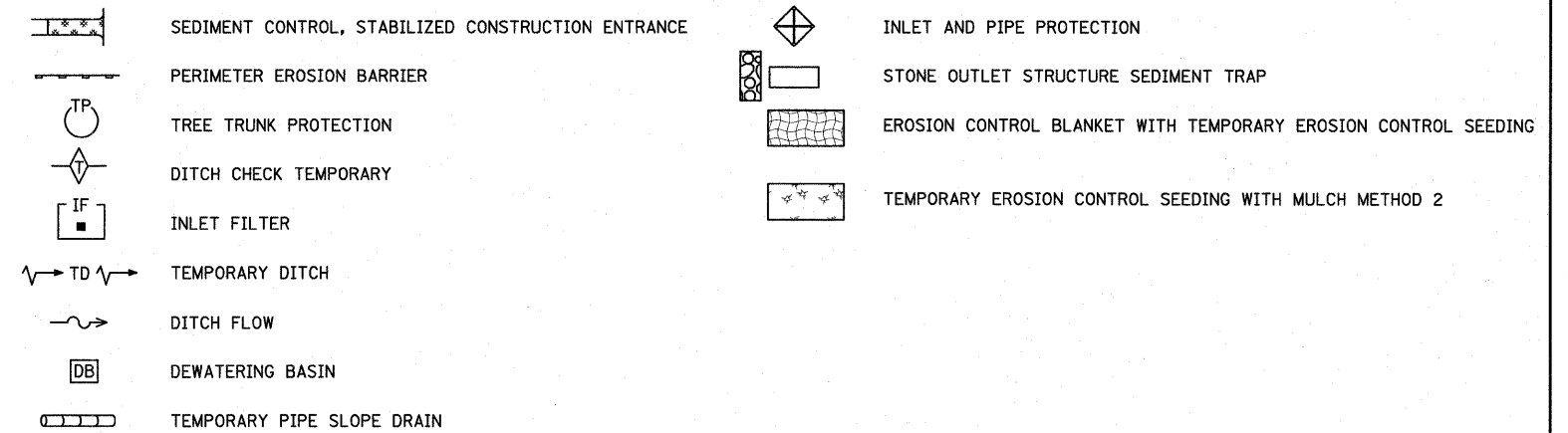
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

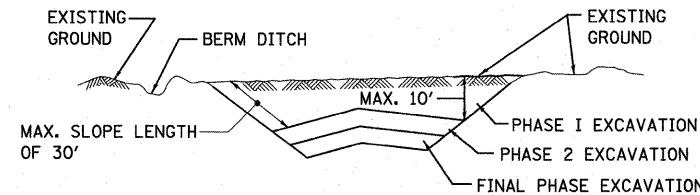
**EROSION AND SEDIMENT CONTROL
GENERAL NOTES**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
 - 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.
 - 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.
- 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 WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
- STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
- 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.

EROSION AND SEDIMENT CONTROL LEGEND



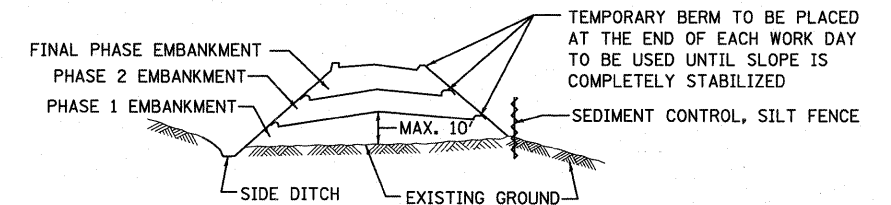
EXCAVATION PHASING PLAN-CUT SECTION



NOTES:

- 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.
- CONSTRUCTION SEQUENCE FOR EXCAVATION:
 - EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.
 - PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
 - PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVERSEED PHASE 1 SLOPES, IF REQUIRED.
 - PERFORM FINAL PHASE EXCAVATION, AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE. STABILIZE SURFACE DRAIN DITCHES. OVERSEED PHASE 1 & 2 SLOPES, IF REQUIRED, AS DETERMINED BY THE ENGINEER.
- 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 STABILIZATION WITH STRAW MULCH OR TEMPORARY SEEDING WITH EROSION BLANKET.
- THE CONTRACTOR HAS THE OPTION OF DELAYING TOPSOIL AND/OR SEEDING BEYOND THE 10 FOOT VERTICAL LIMITATION. (SEE GENERAL NOTE 9) IF SO THE CUT SLOPE MUST BE TEMPORARILY STABILIZED AT NO COST TO THE DEPARTMENT.
- 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 AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

EMBANKMENT PHASING PLAN-FILL SECTION



NOTES:

- THE EMBANKMENT WILL BE MADE IN STAGES NOT TO EXCEED 10'. THE EMBANKMENT SLOPES WILL BE STABILIZED USING TEMPORARY MEASURES BEFORE BEGINNING NEXT STAGE.
- AT THE END OF EACH WORK DAY TEMPORARY BERMS (EARTH) AND TEMPORARY PIPE SLOPE DRAINS WILL BE CONSTRUCTED ALONG THE TOP EDGE(S) OF THE EMBANKMENT TO INTERCEPT SURFACE RUNOFF.
- CONSTRUCTION SEQUENCE FOR EMBANKMENT
 - EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
 - PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
 - PLACE FINAL PHASE EMBANKMENT AND STABILIZE WITH PERMANENT VEGETATIVE PLAN ON THE ENTIRE SLOPE.
- 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 AT HIS OWN COST AND EXPENSE AS DIRECTED BY THE ENGINEER.

SEE NEXT SHEET FOR CONTINUATION

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		DRAWN - JCL	REVISED -
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	PLOT DATE = 1/29/2010	DATE - 12/18/09	REVISED -

SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 126
			CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

**EROSION AND SEDIMENT CONTROLS
GENERAL NOTES (CONTD.)**

11. 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, SILT FENCE & STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
12. 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 SILT FENCE TO CONTROL THE PERIMETER OF THE STOCKPILE.
13. 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.
14. 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.
15. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
16. 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 WITH STRAW MULCH 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 WITH STRAW MULCH.
 - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
17. SEEDING USAGE

CLASS 2A SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.

CLASS 4 USED AT PROPOSED DITCHES AND INFIELDS.

CLASS 4B USED ADJACENT TO WETLANDS TO BE REMEDIATED AND AT INFIELDS. (MODIFIED)

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.
18. TOP SOIL PLACEMENT:

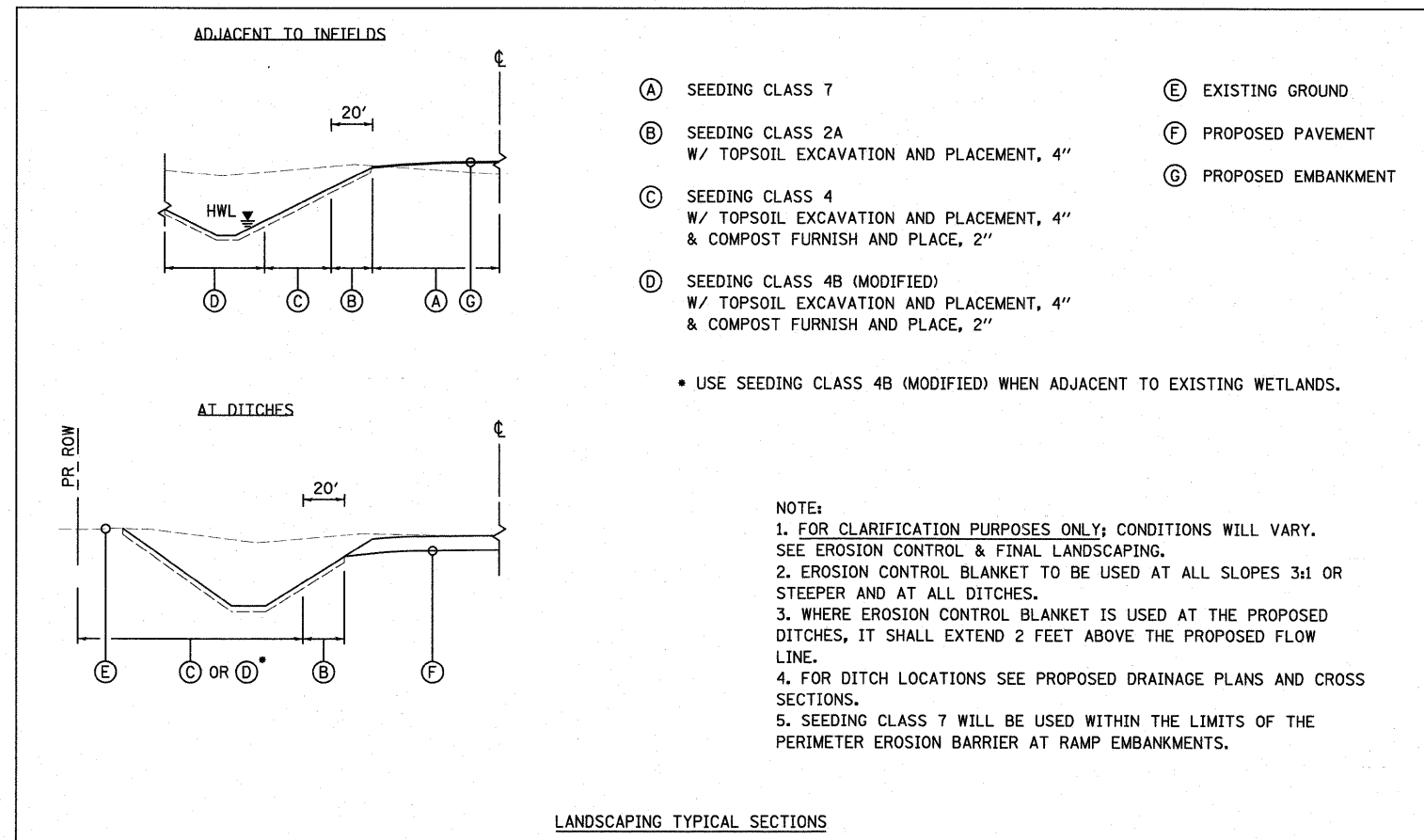
TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARILY STEEP SLOPES.
19. PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES WITHIN THE CONTRACT, ALL WETLANDS AND WATER BODIES SHALL BE PROTECTED BY "TEMPORARY CHAIN LINK FENCE" 4' IN HEIGHT, AND PERIMETER EROSION BARRIER INSTALLED. PERIMETER EROSION BARRIER SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTIONS. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 2' HORIZONTAL. INSTALL "WETLAND AREA NO INTRUSION" SIGNS ON TEMPORARY CHAIN LINK FENCE AT LOCATIONS DESIGNATED ON THE PLAN SHEETS. A MINIMUM OF TWO SIGNS PER LOCATION WILL BE INSTALLED. NO INTRUSION SIGNING SHALL BE FURNISHED BY THE DEPARTMENT AND INSTALLED BY THE CONTRACTOR ON THE FENCING, THIS WORK SHALL BE INCLUDED IN THE COST OF "TEMPORARY CHAIN LINK FENCE".

20. 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.

EROSION AND SEDIMENT CONTROL (ESC) STRATEGY

DISTURBED AREA: 202.9 ACRES (CONTRACTS 1-3)
RECEIVING WATERS: NORTH FORK OF GRANT CREEK, AND THE DES PLAINES RIVER

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.
6. STABILIZE DISTURBED AREAS WITH MULCH METHOD 2 AND TEMPORARY EROSION CONTROL SEEDING AS SHOWN ON THE PLANS.
7. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THE DURATION OF CONSTRUCTION.
8. WHEN FINAL STABILIZATION IS ESTABLISHED, REMOVE ALL TEMPORARY MEASURES.



- (A) SEEDING CLASS 7
 - (B) SEEDING CLASS 2A
W/ TOPSOIL EXCAVATION AND PLACEMENT, 4"
 - (C) SEEDING CLASS 4
W/ TOPSOIL EXCAVATION AND PLACEMENT, 4"
& COMPOST FURNISH AND PLACE, 2"
 - (D) SEEDING CLASS 4B (MODIFIED)
W/ TOPSOIL EXCAVATION AND PLACEMENT, 4"
& COMPOST FURNISH AND PLACE, 2"
 - (E) EXISTING GROUND
 - (F) PROPOSED PAVEMENT
 - (G) PROPOSED EMBANKMENT
- USE SEEDING CLASS 4B (MODIFIED) WHEN ADJACENT TO EXISTING WETLANDS.

NOTE:

1. FOR CLARIFICATION PURPOSES ONLY; CONDITIONS WILL VARY. SEE EROSION CONTROL & FINAL LANDSCAPING.
2. EROSION CONTROL BLANKET TO BE USED AT ALL SLOPES 3:1 OR STEEPER AND AT ALL DITCHES.
3. WHERE EROSION CONTROL BLANKET IS USED AT THE PROPOSED DITCHES, IT SHALL EXTEND 2 FEET ABOVE THE PROPOSED FLOW LINE.
4. FOR DITCH LOCATIONS SEE PROPOSED DRAINAGE PLANS AND CROSS SECTIONS.
5. SEEDING CLASS 7 WILL BE USED WITHIN THE LIMITS OF THE PERIMETER EROSION BARRIER AT RAMP EMBANKMENTS.

SOIL PROTECTION SCHEDULE

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A					A				
DORMANT SEEDING	B									A		
TEMPORARY SEEDING			B									
EROSION BLANKET/HYDROMULCH	B											

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street Chicago, Illinois 60601

FILE NAME = DIS0C31-SHT-EROS02.dgn	USER NAME = jletour	DESIGNED - JCL	REVISED -
PLCT SCALE = 1:50	CHECKED - DLT	DRAWN - JCL	REVISED -
PLOT DATE = 1/28/2018	DATE - 12/18/09		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**













**EROSION AND SEDIMENT CONTROL
GENERAL NOTES AND STRATEGY**

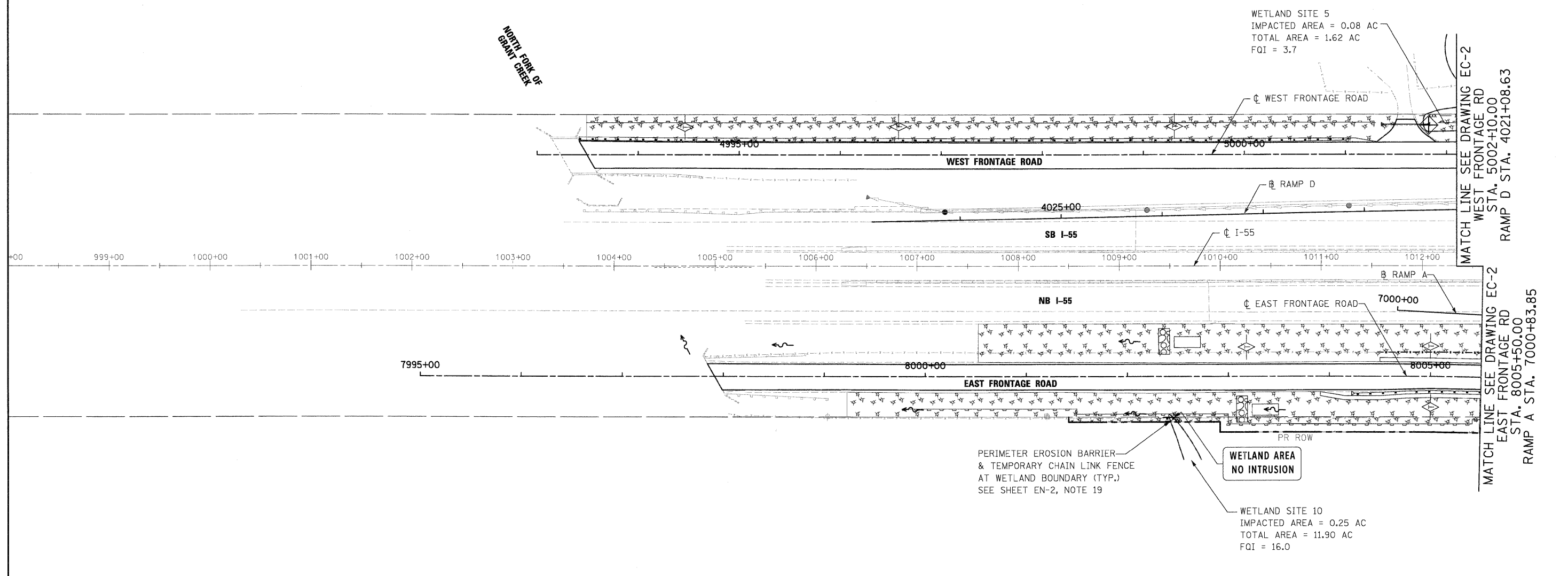
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	127
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL

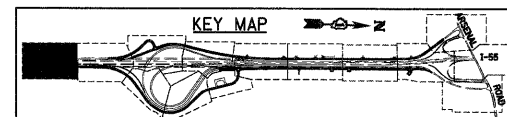
EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



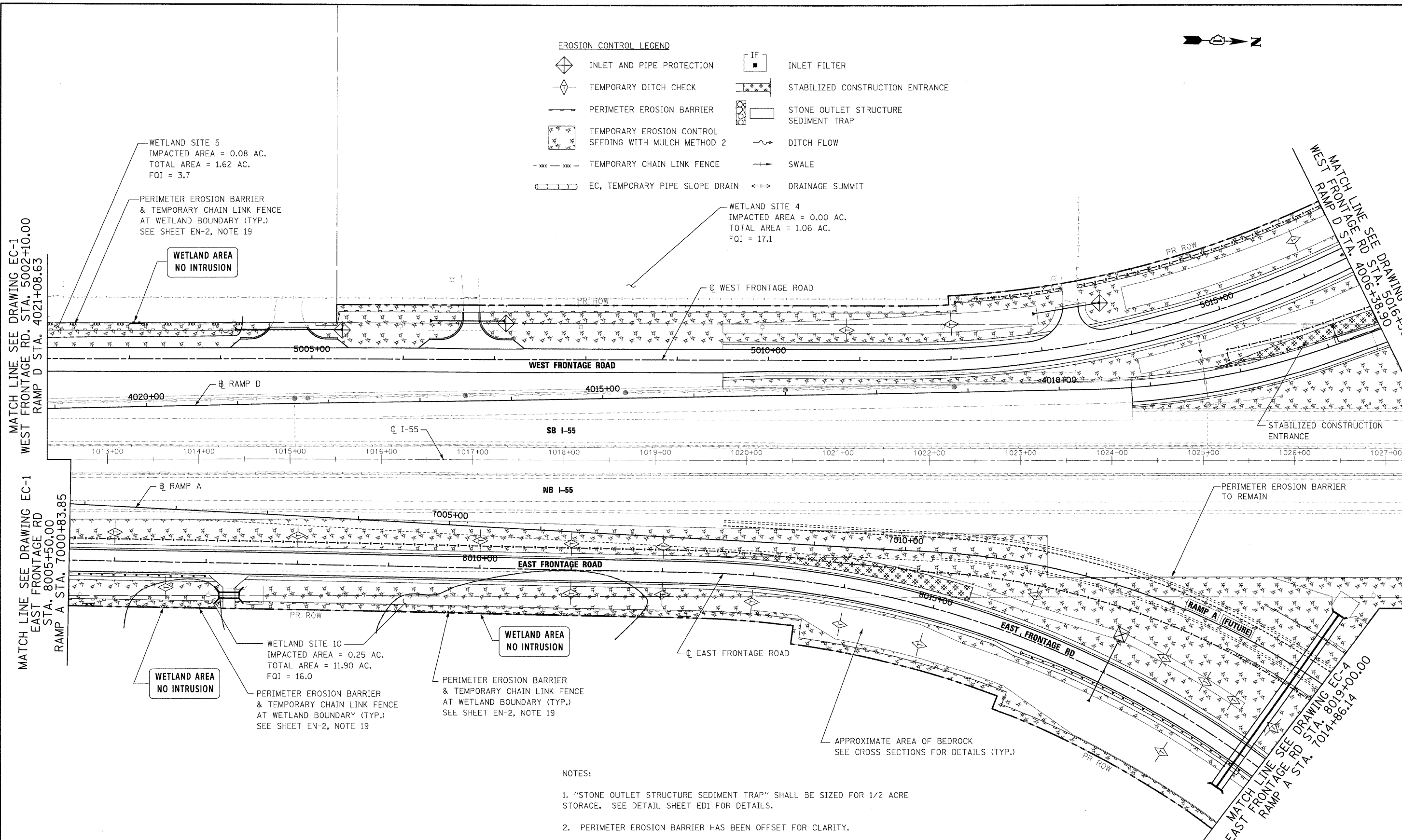
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		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 1 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	128
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EROSION CONTROL LEGEND

	INLET AND PIPE PROTECTION		INLET FILTER
	TEMPORARY DITCH CHECK		STABILIZED CONSTRUCTION ENTRANCE
	PERIMETER EROSION BARRIER		STONE OUTLET STRUCTURE
	TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2		SEDIMENT TRAP
	TEMPORARY CHAIN LINK FENCE		DITCH FLOW
	EC, TEMPORARY PIPE SLOPE DRAIN		SWALE
			DRAINAGE SUMMIT

WETLAND SITE 5
 IMPACTED AREA = 0.08 AC.
 TOTAL AREA = 1.62 AC.
 FQI = 3.7

PERIMETER EROSION BARRIER & TEMPORARY CHAIN LINK FENCE AT WETLAND BOUNDARY (TYP.) SEE SHEET EN-2, NOTE 19

WETLAND AREA NO INTRUSION

WETLAND SITE 4
 IMPACTED AREA = 0.00 AC.
 TOTAL AREA = 1.06 AC.
 FQI = 17.1

WETLAND SITE 10
 IMPACTED AREA = 0.25 AC.
 TOTAL AREA = 11.90 AC.
 FQI = 16.0

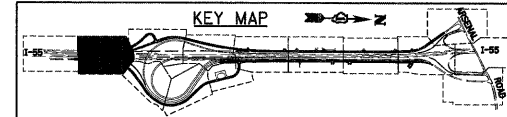
WETLAND AREA NO INTRUSION

PERIMETER EROSION BARRIER & TEMPORARY CHAIN LINK FENCE AT WETLAND BOUNDARY (TYP.) SEE SHEET EN-2, NOTE 19

PERIMETER EROSION BARRIER & TEMPORARY CHAIN LINK FENCE AT WETLAND BOUNDARY (TYP.) SEE SHEET EN-2, NOTE 19

NOTES:

- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
- PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



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PLOT SCALE =	1"=50'
PLOT DATE =	12/14/2009

DESIGNED -	JCL
DRAWN -	JCL
CHECKED -	DLT
DATE -	12/18/09

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

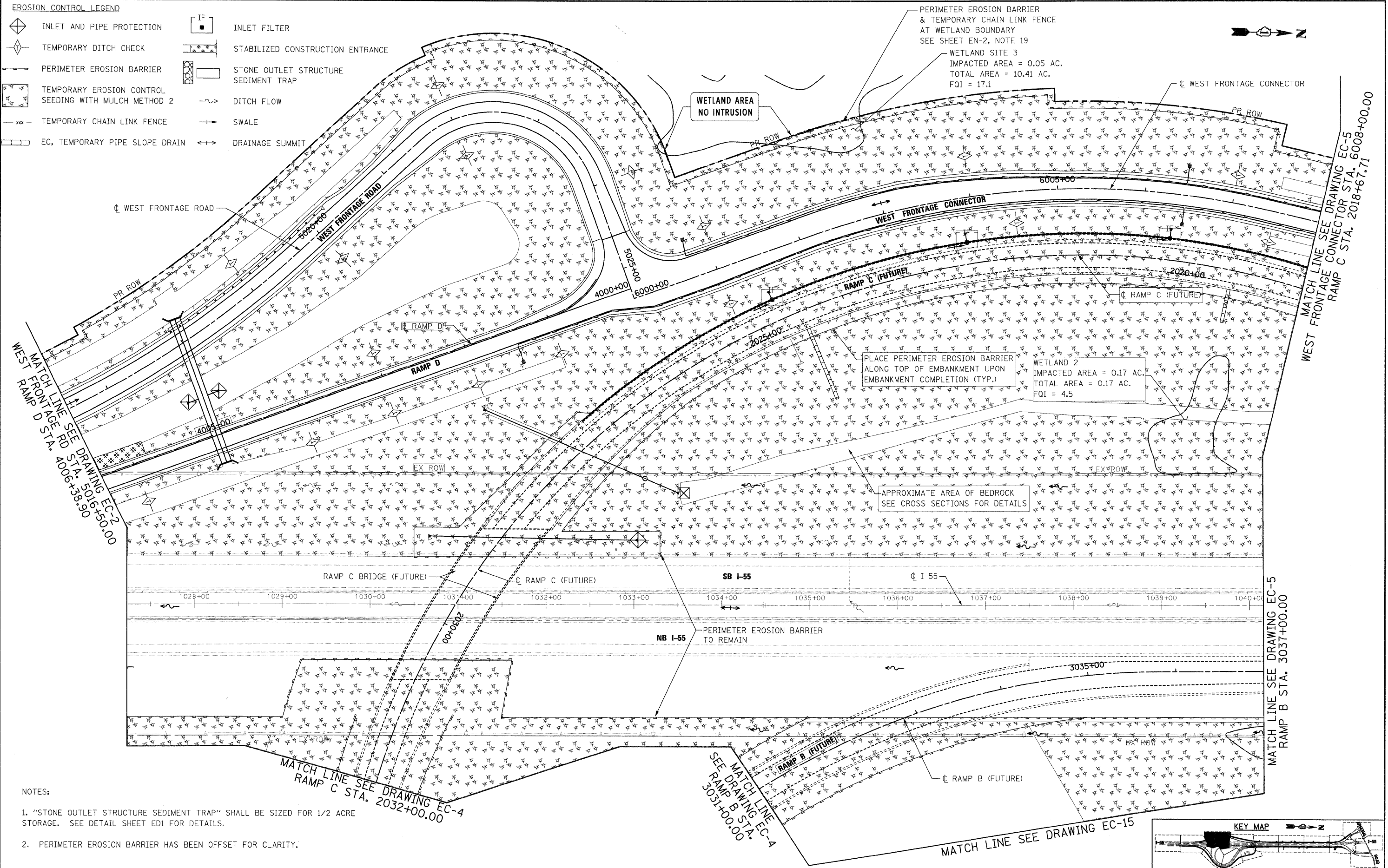
SCALE: 1"=50' SHEET NO. 2 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	129
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL

EROSION CONTROL LEGEND

- | | | | |
|--|---|--|--------------------------------------|
| | INLET AND PIPE PROTECTION | | INLET FILTER |
| | TEMPORARY DITCH CHECK | | STABILIZED CONSTRUCTION ENTRANCE |
| | PERIMETER EROSION BARRIER | | STONE OUTLET STRUCTURE SEDIMENT TRAP |
| | TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2 | | DITCH FLOW |
| | TEMPORARY CHAIN LINK FENCE | | SWALE |
| | EC, TEMPORARY PIPE SLOPE DRAIN | | DRAINAGE SUMMIT |



- NOTES:
- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
 - PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.

McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D162C31-SHT-EROS13.dgn
 USER NAME = TKLuegl

DESIGNED - JCL
 DRAWN - JCL
 CHECKED - DLT
 PLOT DATE = 12/11/2009

REVISÉ -
 REVISÉ -
 REVISÉ -
 REVISÉ -

DATE - 12/18/09

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 3 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	130
CONTRACT NO. 60C31				













FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

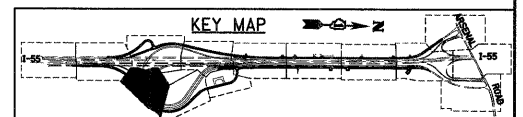
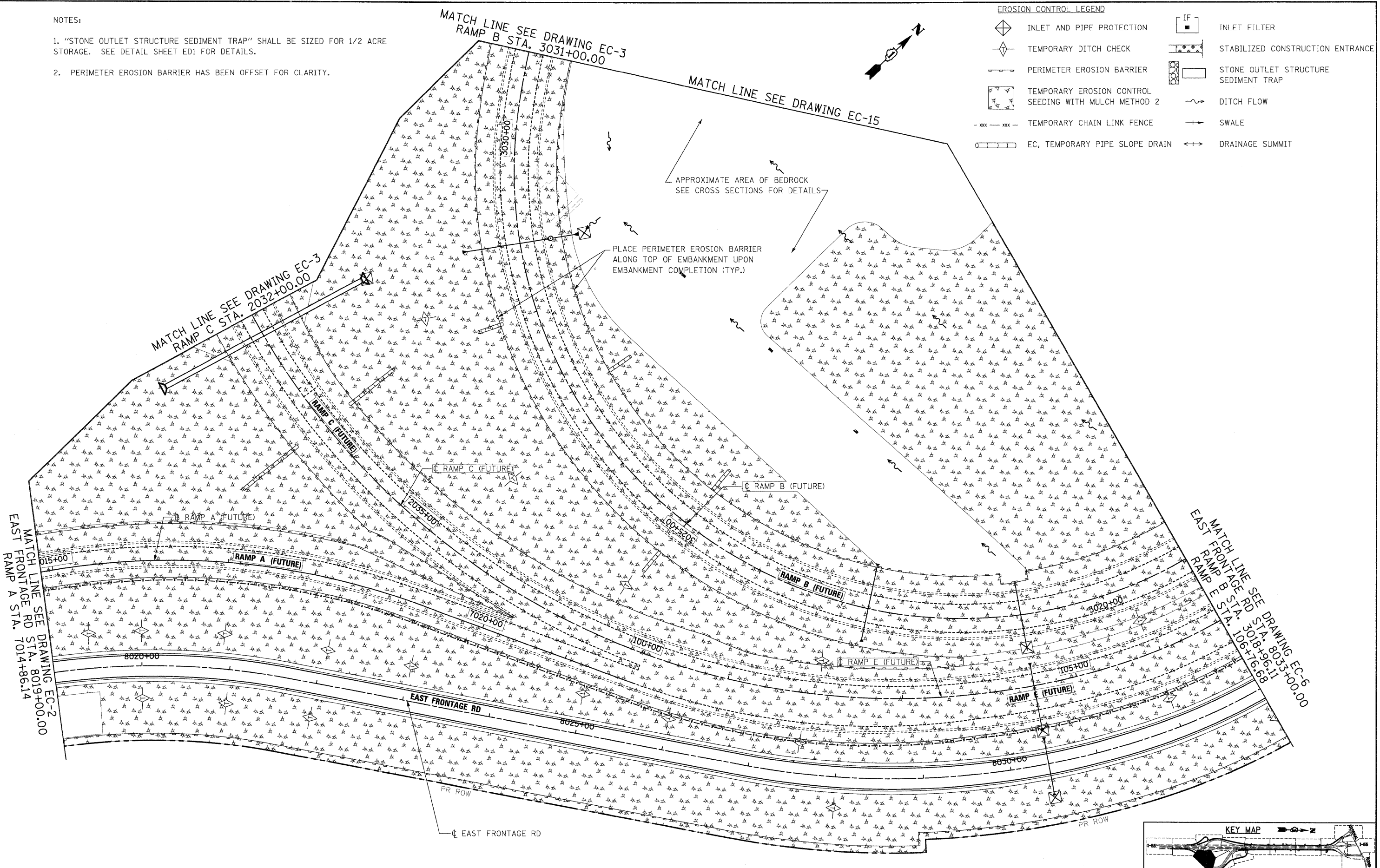
FINAL

NOTES:

- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
- PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.

EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  IF
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

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PLOT SCALE = 1/8"=1'-0"	DRAWN - JTF	CHECKED - DLT	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09		REVISED -

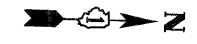
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PLAN

SCALE: 1"=50' SHEET NO. 4 OF 15 SHEETS STA. TO STA.

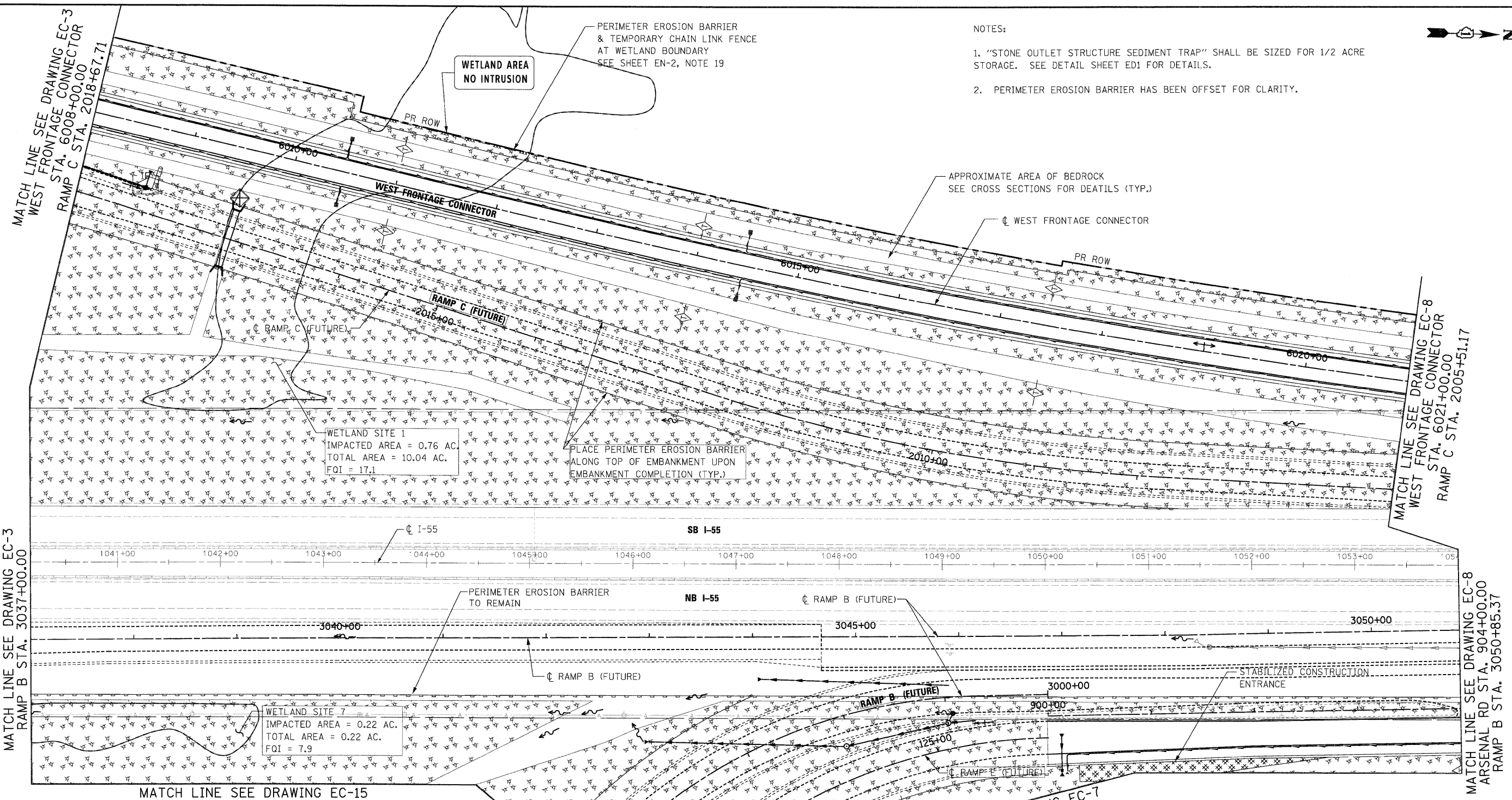
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	131
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



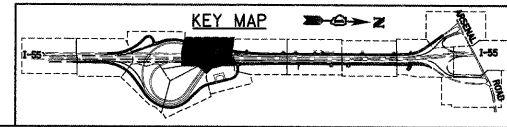
NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



EROSION CONTROL LEGEND

	INLET AND PIPE PROTECTION		INLET FILTER
	TEMPORARY DITCH CHECK		STABILIZED CONSTRUCTION ENTRANCE
	PERIMETER EROSION BARRIER		STONE OUTLET STRUCTURE SEDIMENT TRAP
	TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2		DITCH FLOW
	TEMPORARY CHAIN LINK FENCE		SWALE
	EC, TEMPORARY PIPE SLOPE DRAIN		DRAINAGE SUMMIT



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FILE NAME = D160C31-SHT-EROS15.dgn	USER NAME = TKLuegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1"=50'		DRAWN - JCL	REVISED -
PLOT DATE = 12/11/2009		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**













EROSION AND SEDIMENT CONTROL PLAN

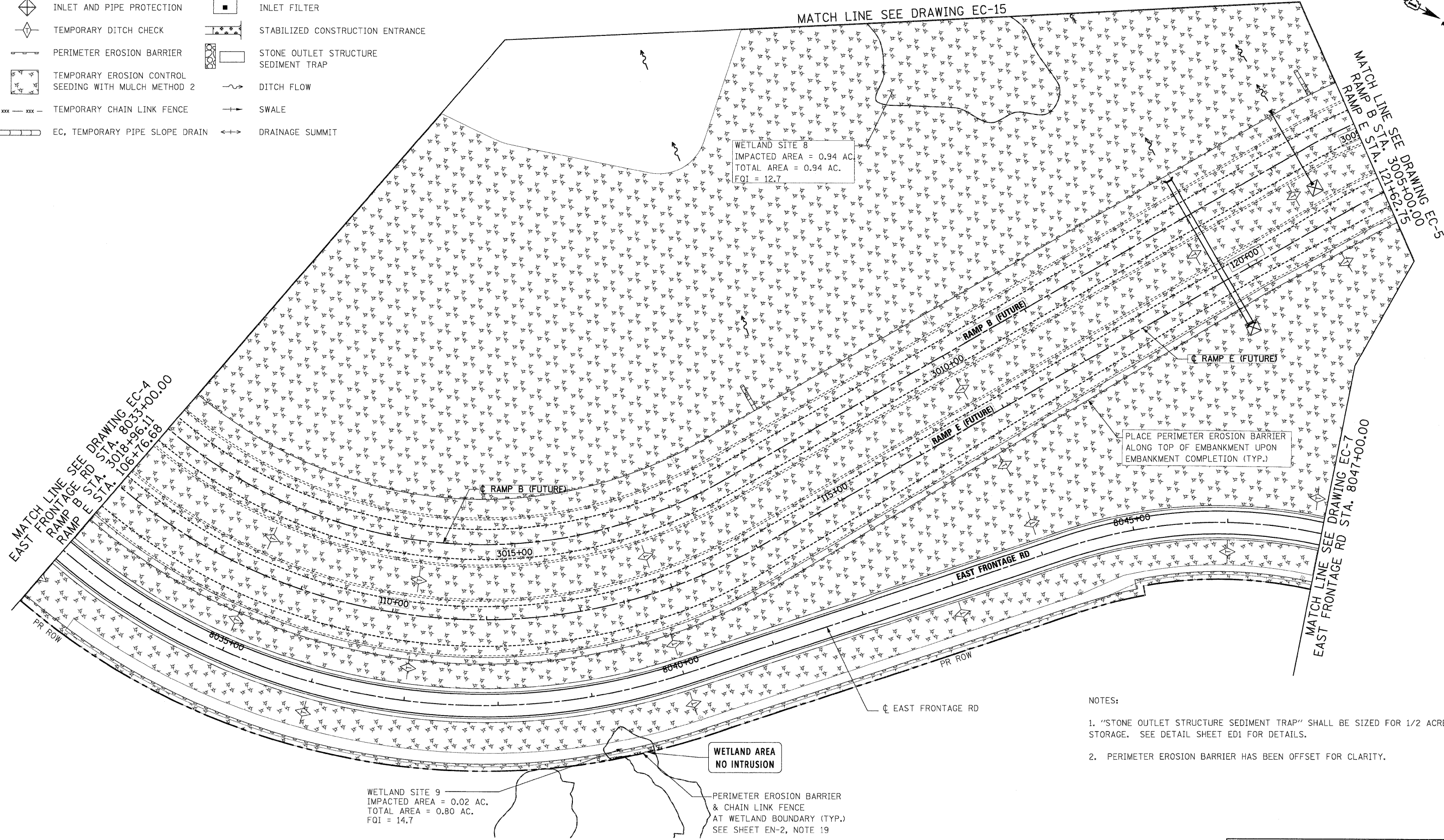
SCALE: 1"=50' SHEET NO. 5 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	132
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

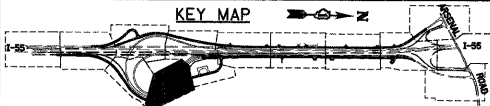
FINAL

EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



- NOTES:
1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
 2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



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 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D160C31-SHT-EROS16.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
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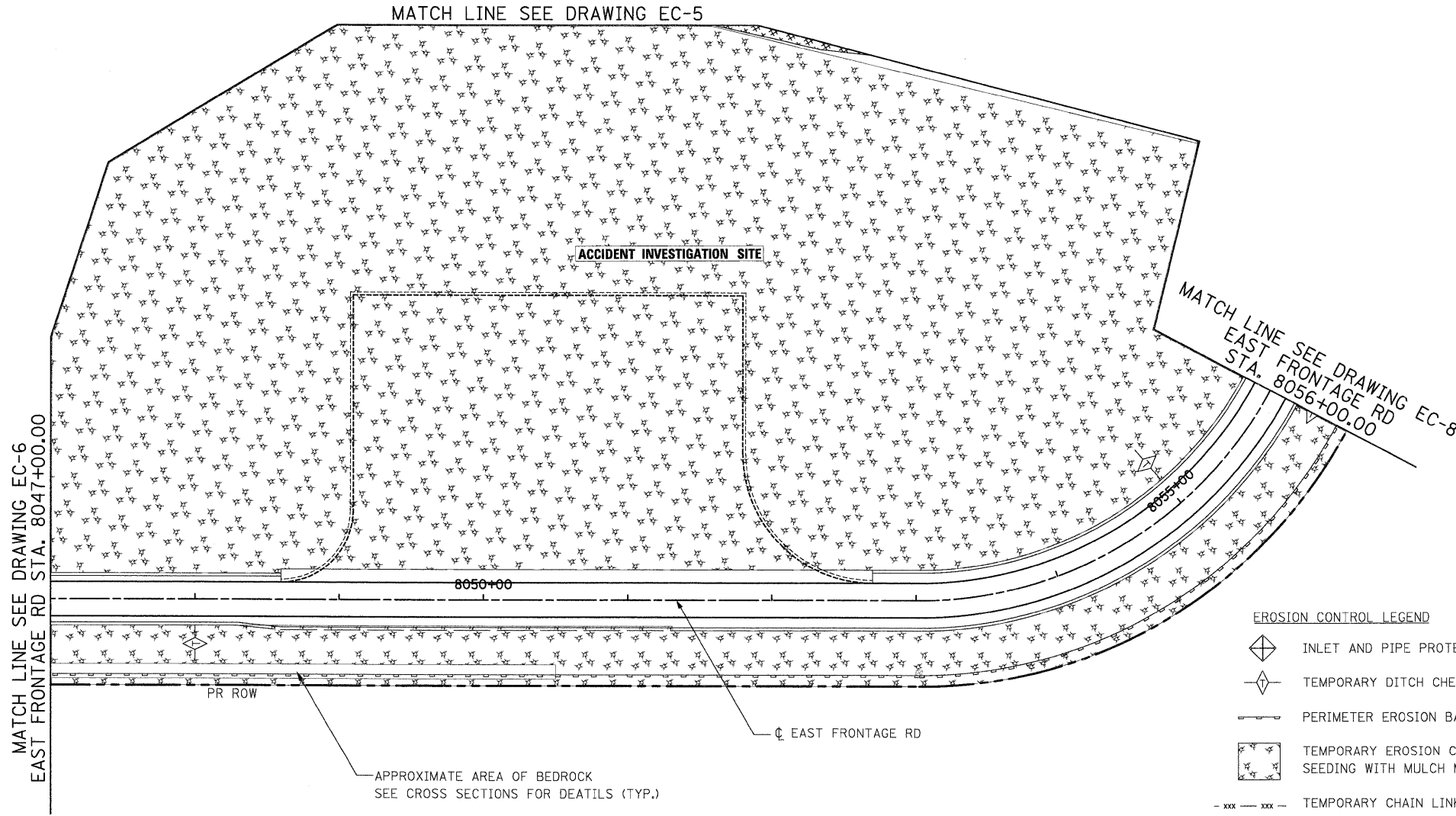
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 6 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	133
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

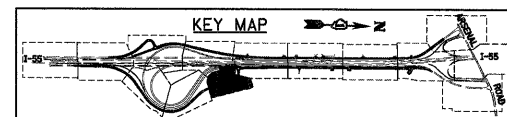


EROSION CONTROL LEGEND

- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
- TEMPORARY CHAIN LINK FENCE
- EC, TEMPORARY PIPE SLOPE DRAIN
- INLET FILTER
- STABILIZED CONSTRUCTION ENTRANCE
- STONE OUTLET STRUCTURE SEDIMENT TRAP
- DITCH FLOW
- SWALE
- DRAINAGE SUMMIT

NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

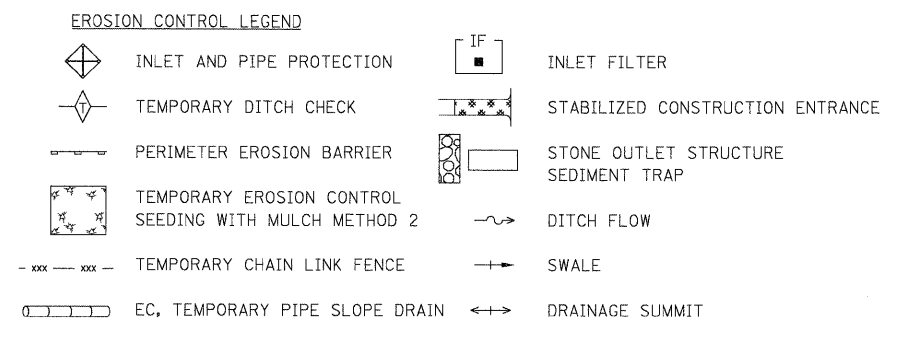
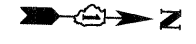
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		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	134
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

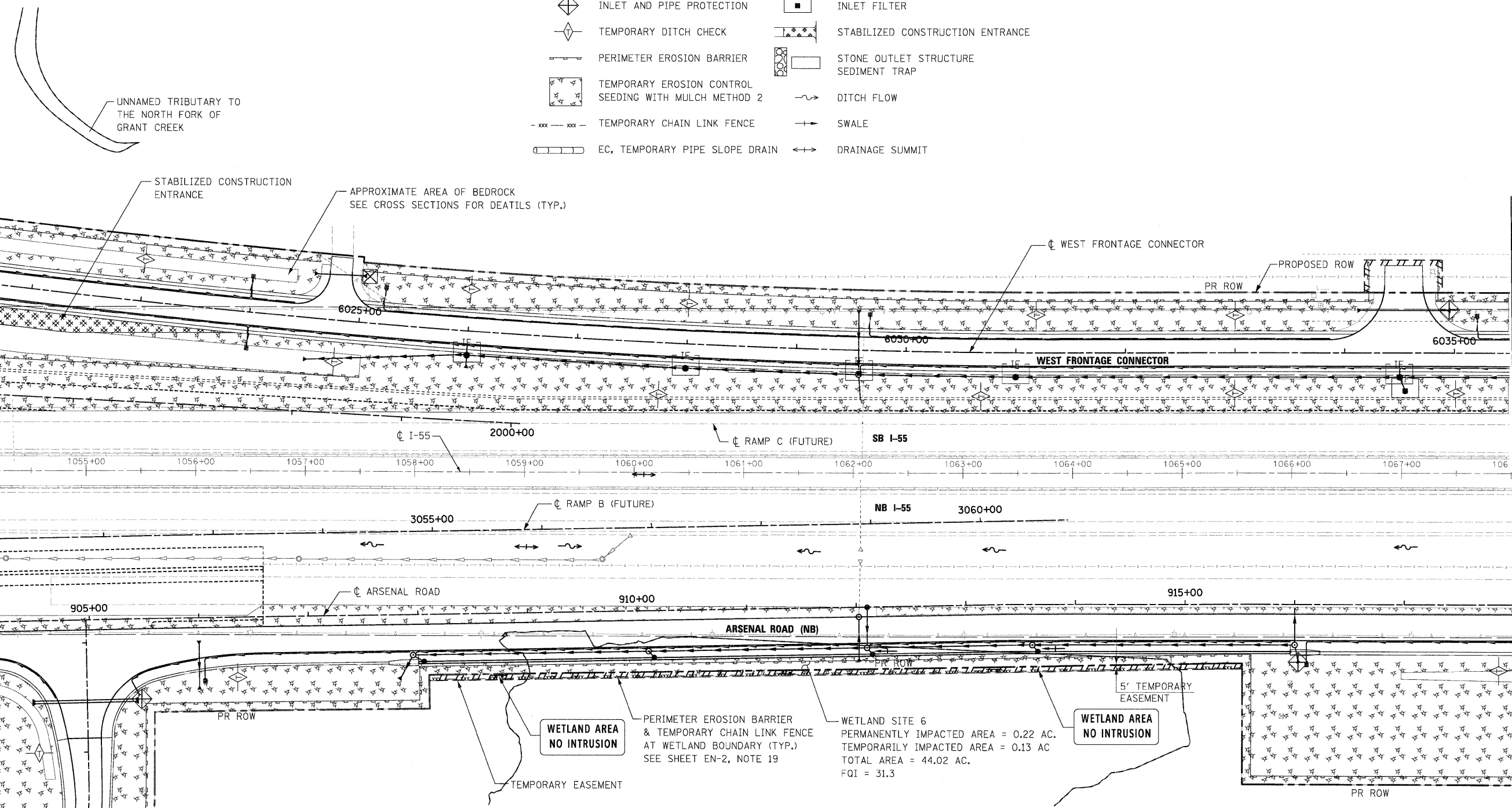


MATCH LINE SEE DRAWING EC-5
WEST FRONTAGE CONNECTOR STA. 6021+00.00
RAMP C STA. 2005+51.17

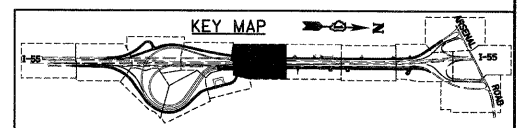
MATCH LINE SEE DRAWING EC-9
WEST FRONTAGE CONNECTOR
STA. 6035+50.00
RAMP C STA. 1990+89.59

MATCH LINE SEE DRAWING EC-5
ARSENAL RD STA. 904+00.00
RAMP B STA. 3050+85.37

MATCH LINE SEE DRAWING EC-7
EAST FRONTAGE RD STA. 8056+00.00



- NOTES:
- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
 - PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\620C31-SHT-EROS18.dgn	USER NAME = TK\luegl	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:50	DATE = 12/18/09	DRAWN - JCL	REVISED -
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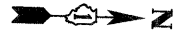
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN













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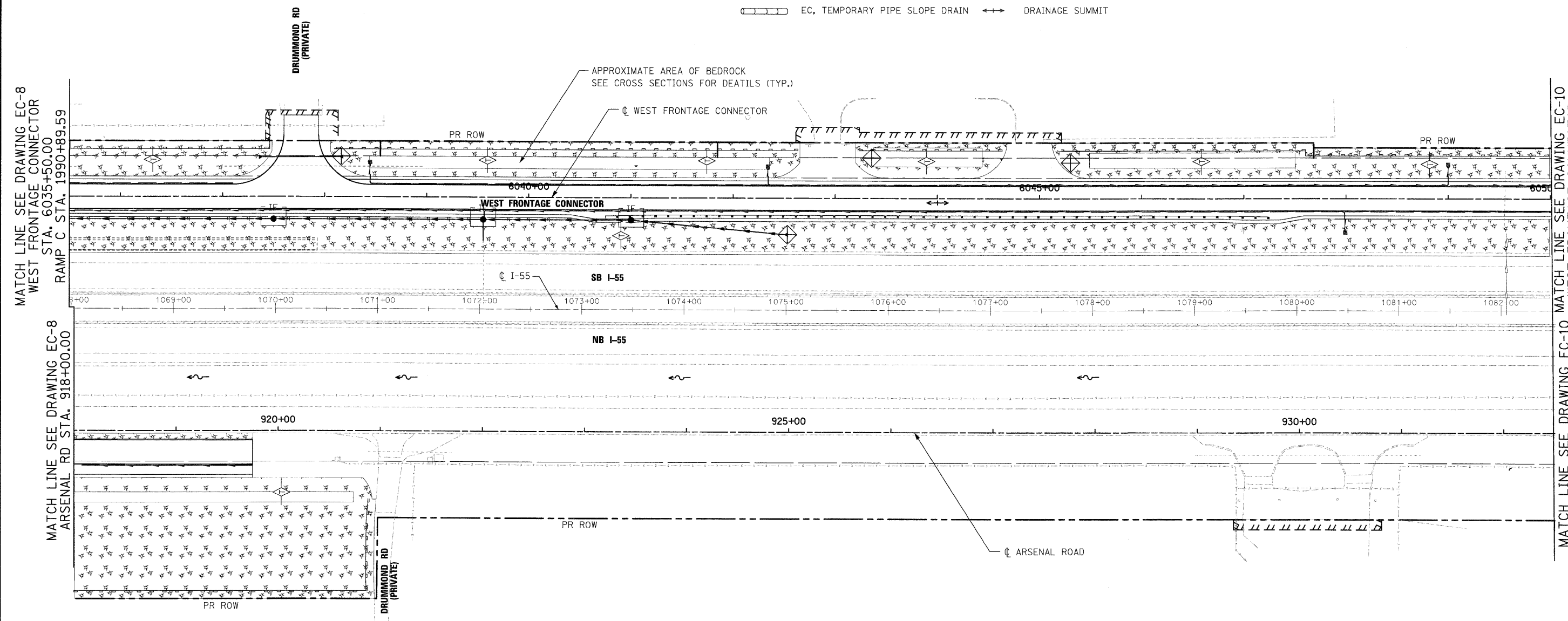
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	135
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL
EC-8



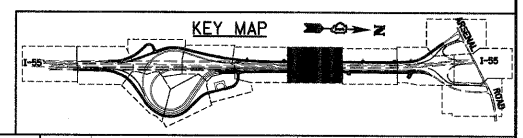
EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  IF INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D162C31-SHT-EROS19.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
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		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 9 OF 15 SHEETS STA. TO STA.













F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	136
CONTRACT NO. 60C31				

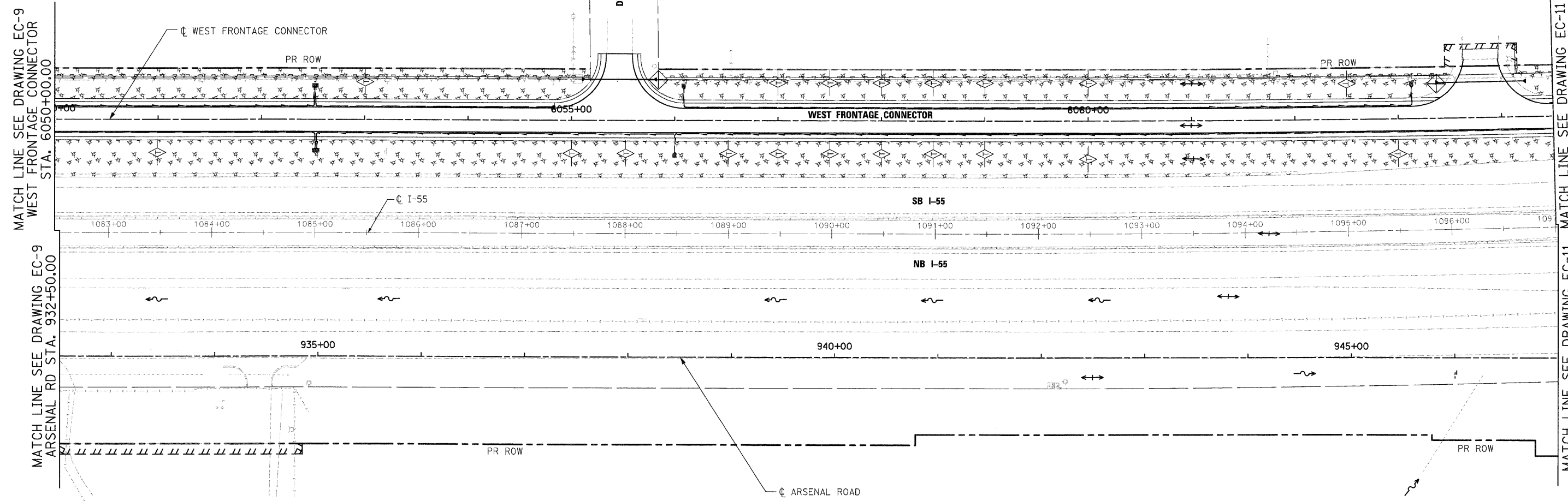
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FINAL



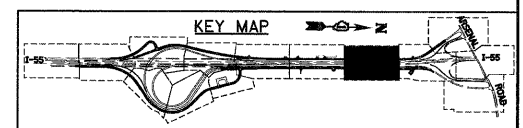
EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



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 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D169C31-SHT-EROS20.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
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		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**













EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 10 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	137
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

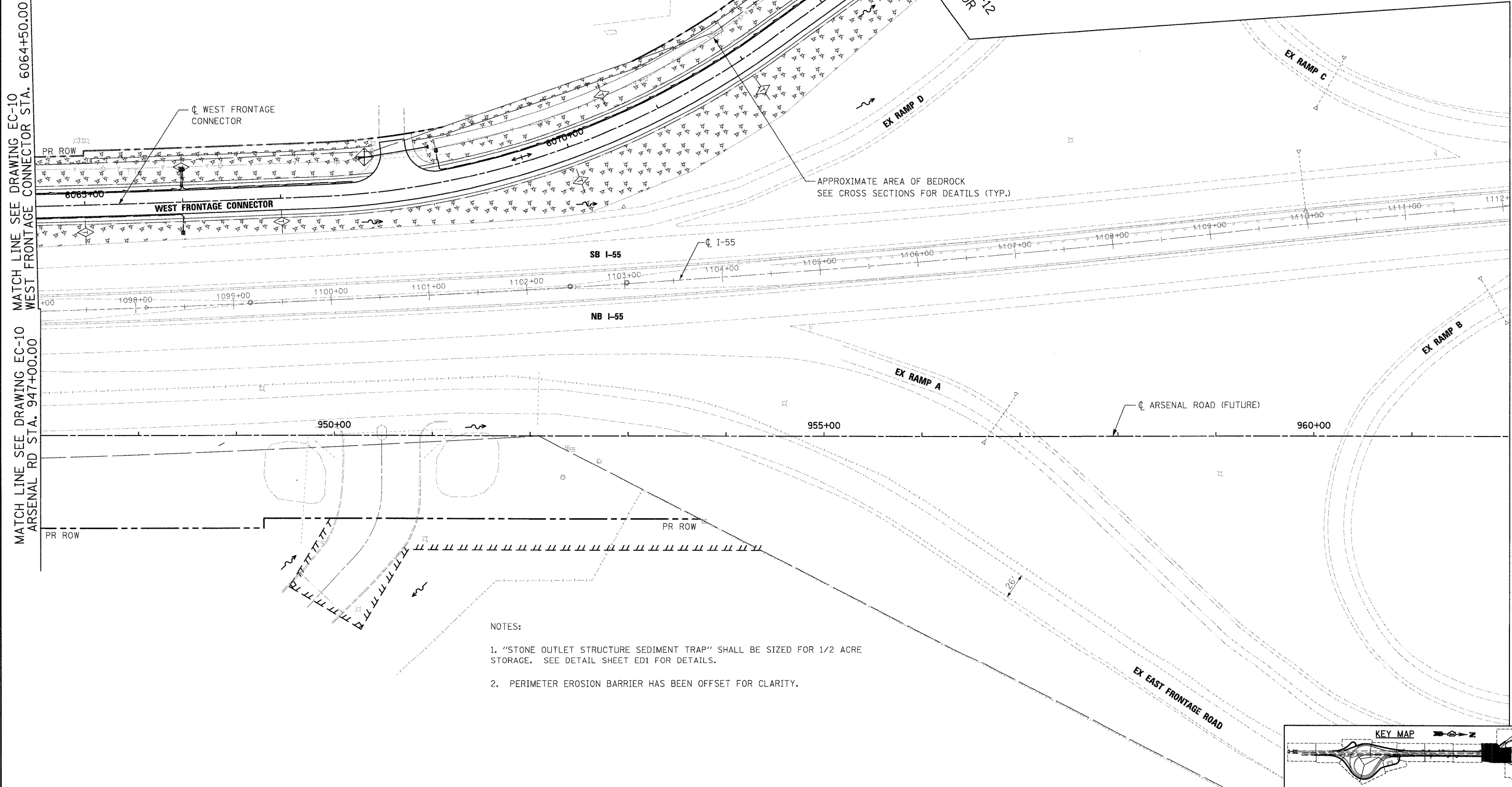
EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT

MATCH LINE SEE DRAWING EC-10 WEST FRONTAGE CONNECTOR STA. 6064+50.00

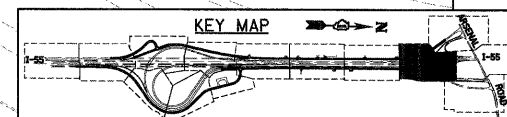
MATCH LINE SEE DRAWING EC-10 ARSENAL RD STA. 947+00.00

MATCH LINE SEE DRAWING EC-13 ARSENAL RD STA. 962+00.00



NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = TKluigel
D:\6031-SHT-EROS21.dgn	

DESIGNED - JCL	REVISD -
DRAWN - JCL	REVISD -
CHECKED - DLT	REVISD -
PLCT DATE = 12/11/2009	REVISD -

DATE - 12/18/09	REVISD -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**













EROSION AND SEDIMENT CONTROL PLAN

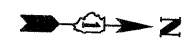
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	138
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

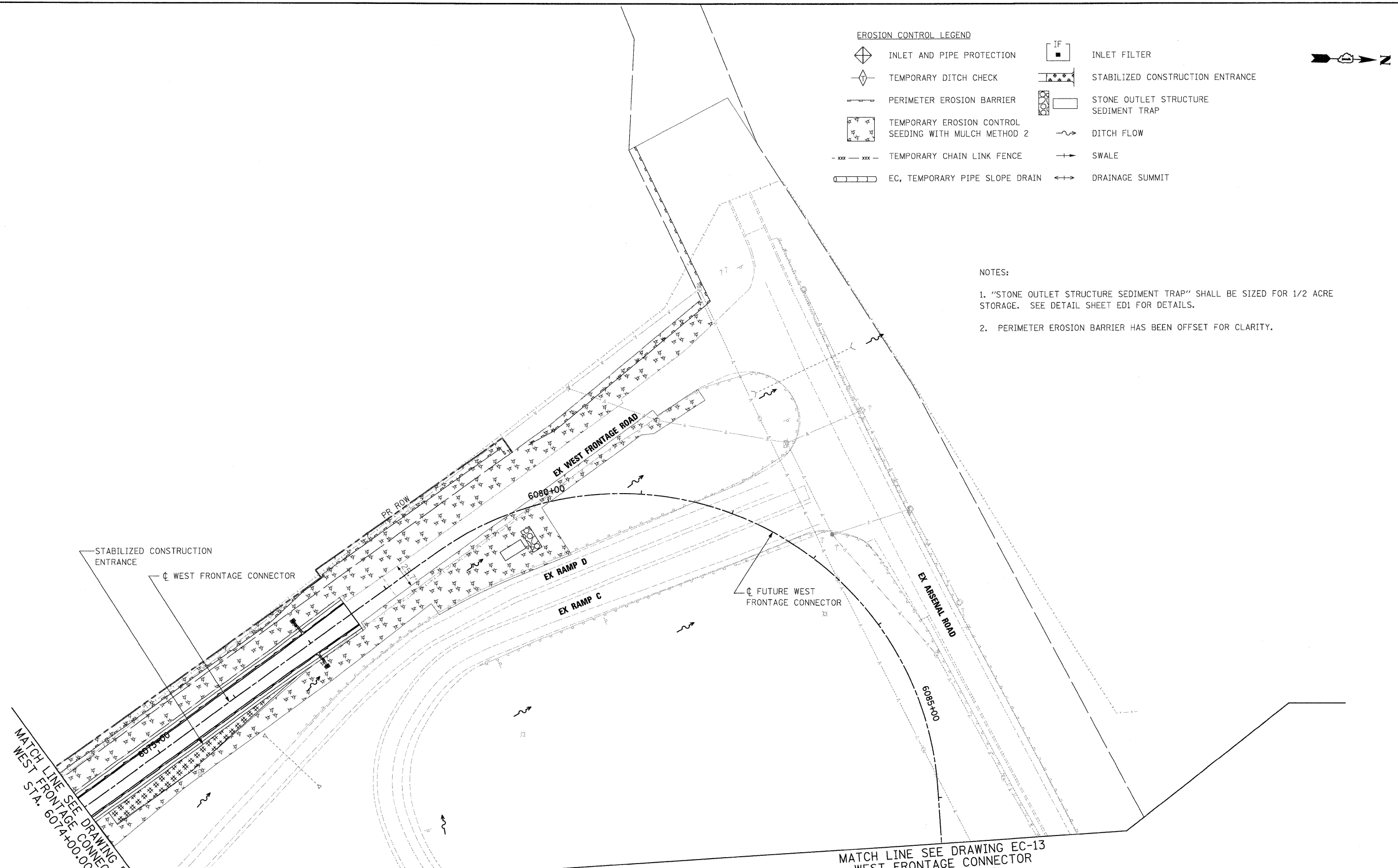
EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  INLET FILTER
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



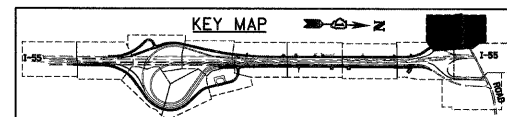
NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



MATCH LINE SEE DRAWING EC-11
WEST FRONTAGE CONNECTOR
STA. 6074+00.00

MATCH LINE SEE DRAWING EC-13
WEST FRONTAGE CONNECTOR
STA. 6086+50.00



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D1620C31-SHT-EROS22.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
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PLOT DATE = 12/14/2009	DATE - 12/18/09		REVISED -













**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 12 OF 15 SHEETS STA. TO STA.

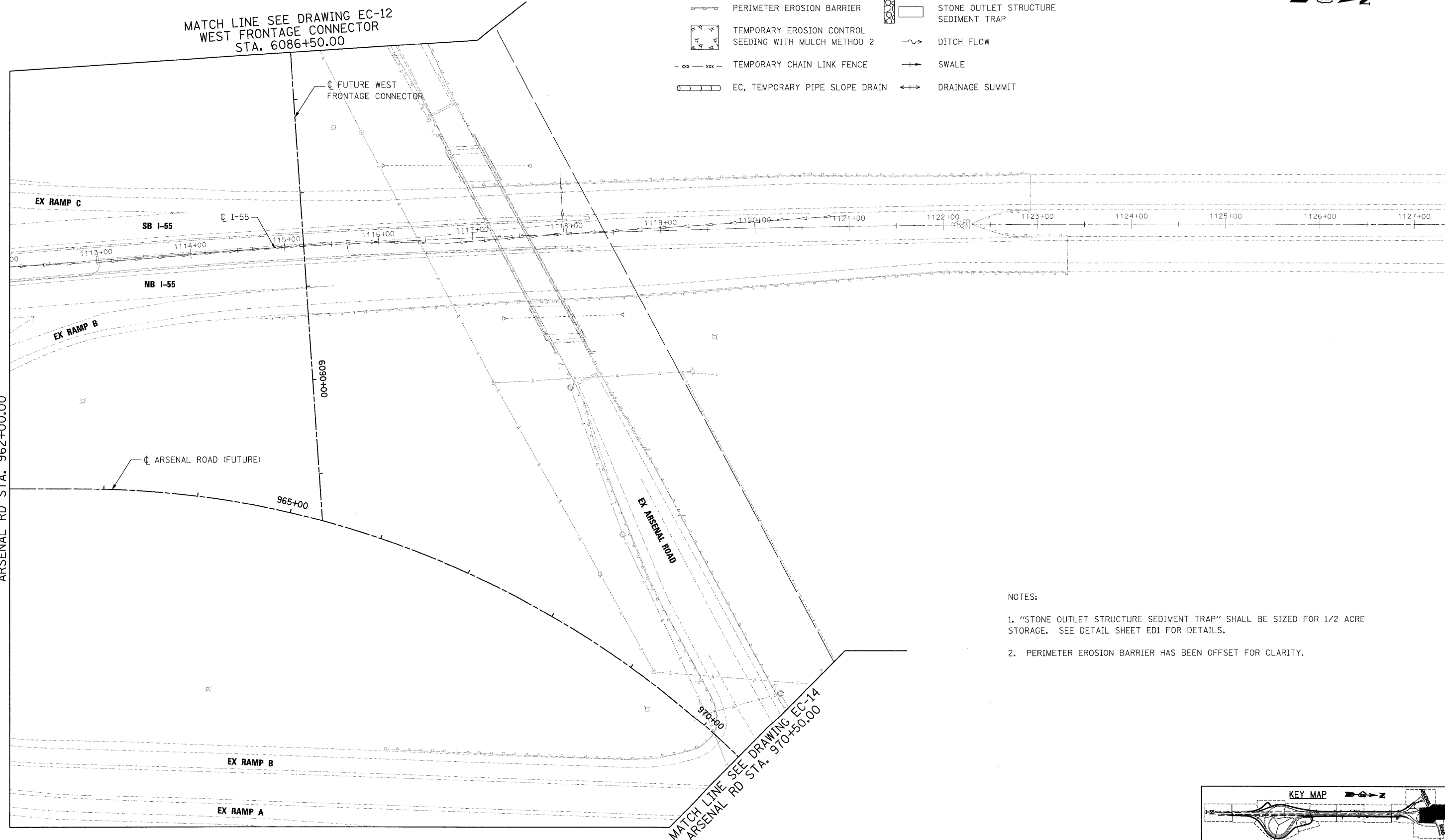
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	139
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

EROSION CONTROL LEGEND

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  TEMPORARY CHAIN LINK FENCE
-  EC, TEMPORARY PIPE SLOPE DRAIN
-  IF
-  STABILIZED CONSTRUCTION ENTRANCE
-  STONE OUTLET STRUCTURE SEDIMENT TRAP
-  DITCH FLOW
-  SWALE
-  DRAINAGE SUMMIT



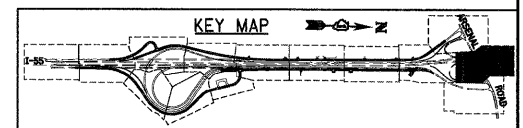
MATCH LINE SEE DRAWING EC-12
WEST FRONTAGE CONNECTOR
STA. 6086+50.00



MATCH LINE SEE DRAWING EC-11
ARSENAL RD STA. 962+00.00

NOTES:

1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =	USER NAME = TK1uegl
D1680C31-SHT-EROS23.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 12/11/2009	

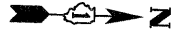
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DRAWN - JCL	REVISED -
CHECKED - DLT	REVISED -
DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'	SHEET NO. 13 OF 15 SHEETS	STA.	TO STA.
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EROSION AND SEDIMENT CONTROL PLAN	
F.A.I. RTE.	SECTION
55	(99-1&2)AC-3
COUNTY	WILL
TOTAL SHEETS	524
SHEET NO.	140
CONTRACT NO. 60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL



FOR CONTINUATION
SEE DRAWING EC-13

MATCH LINE SEE DRAWING EC-13
ARSENAL RD STA. 970+50.00

EX RAMP A

CL ARSENAL ROAD (FUTURE)

EX EAST FRONTAGE ROAD

975+00

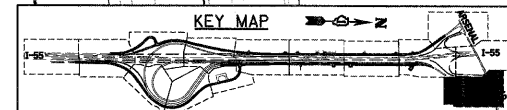
EX ARSENAL ROAD

EROSION CONTROL LEGEND

- | | | | |
|--|--|--|---|
| | INLET AND PIPE PROTECTION | | INLET FILTER |
| | TEMPORARY DITCH CHECK | | STABILIZED CONSTRUCTION ENTRANCE |
| | PERIMETER EROSION BARRIER | | STONE OUTLET STRUCTURE
SEDIMENT TRAP |
| | TEMPORARY EROSION CONTROL
SEEDING WITH MULCH METHOD 2 | | DITCH FLOW |
| | TEMPORARY CHAIN LINK FENCE | | SWALE |
| | EC, TEMPORARY PIPE SLOPE DRAIN | | DRAINAGE SUMMIT |

NOTES:

- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
- PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME =
D160C31-SHT-EROS24.dgn

USER NAME = TK1uaga1

DESIGNED - JCL

REVISED -

DRAWN - JCL

REVISED -

CHECKED - DLT

REVISED -

DATE - 12/18/09

REVISED -

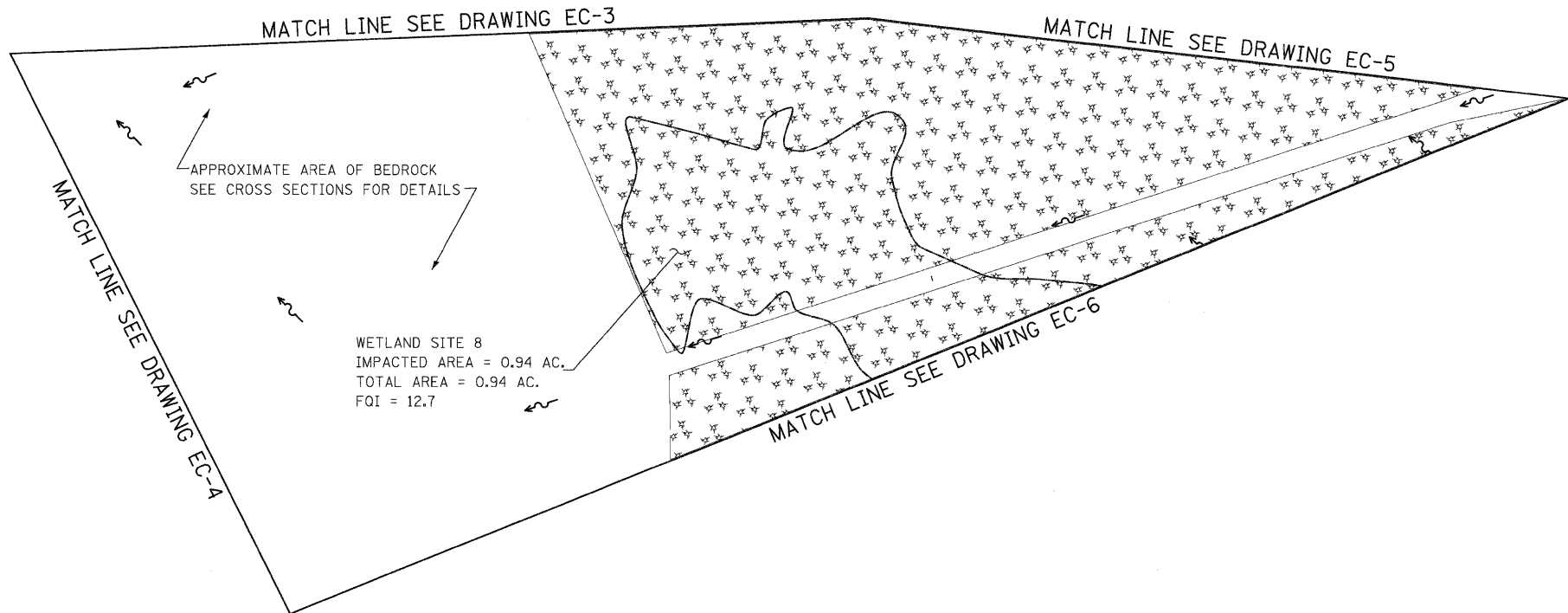
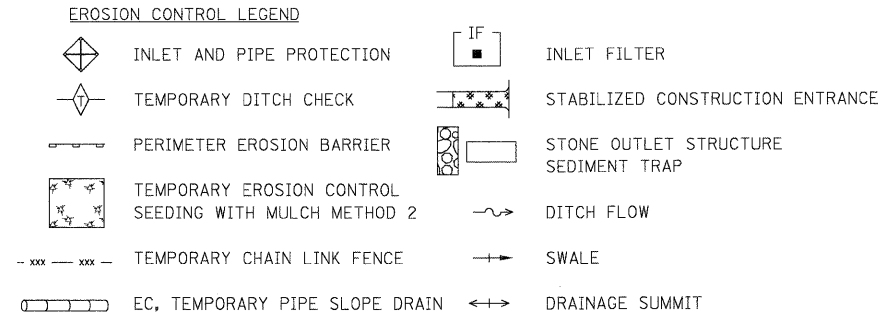
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 14 OF 15 SHEETS STA. TO STA.

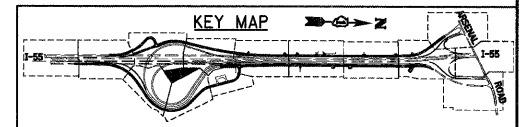
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	141
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



NOTES:

- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
- PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

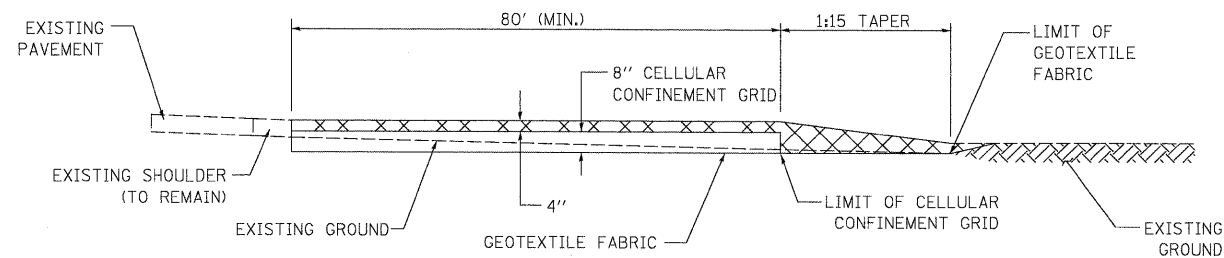
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

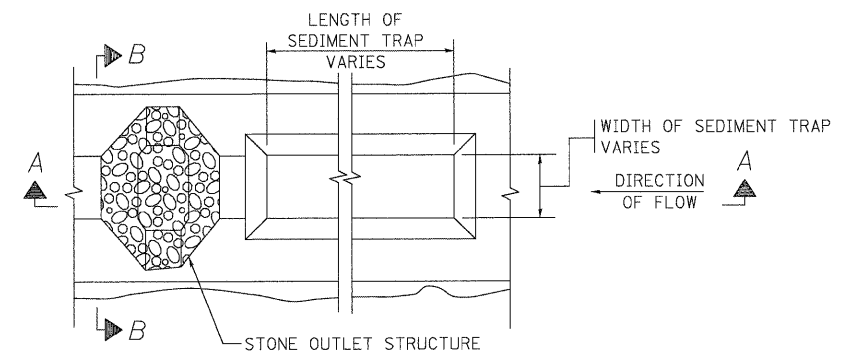
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50' SHEET NO. 15 OF 15 SHEETS STA. TO STA.

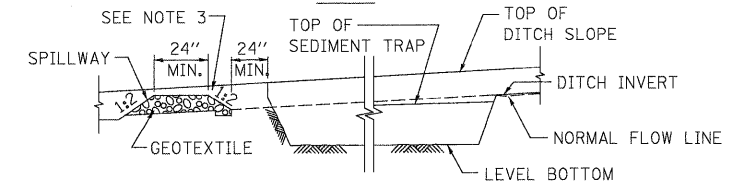
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55	(99-1&2)AC-3	WILL	524	142
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A
N.T.S.

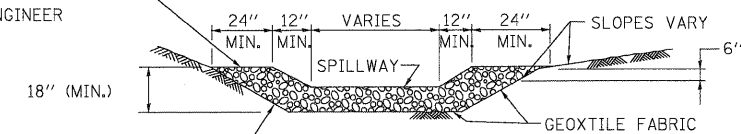


PLAN



SECTION A-A

TOP ELEVATION OF STRUCTURE SHALL BE SET IN FIELD AS DIRECTED BY THE ENGINEER



SECTION B-B

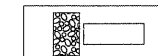
CUT SIDE SLOPES IN SEDIMENT TRAP AS STEEP AS SOIL CONDITIONS WILL ALLOW

NOTES:

1. USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED WHEN THE TRAP IS 50% FULL.
3. THIS WORK WILL BE PAID FOR UNDER THE FOLLOWING ITEMS: EARTH EXCAVATION FOR EROSION CONTROL, STONE RIPRAP, CLASS A4 AND FILTER FABRIC.
4. ALL SEDIMENT TRAPS SHALL BE DESIGNED TO PROVIDE 3600 CUBIC FEET OF STORAGE PER 1.0 ACRE OF DRAINAGE AREA.

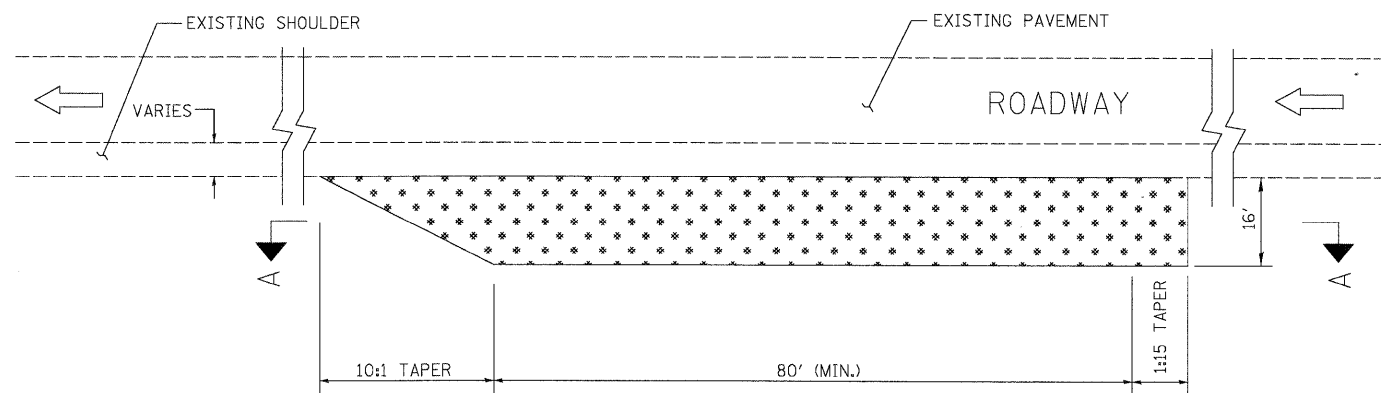
STONE OUTLET STRUCTURE SEDIMENT TRAP

STANDARD SYMBOL



DRAINAGE AREA	L	W	CAPACITY CFT
0.5 AC	75'	10'	1,875
1.0 AC	145'	10'	3,625
1.5 AC	145'	15'	5,438
2.0 AC	195'	15'	7,313

NOTE:
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. L AND W ARE MEASURED ALONG THE BOTTOM OF THE TRAP. WHENEVER POSSIBLE, THE MAXIMUM AVERAGE DEPTH OF THE TRAP WILL BE 30". THE MAXIMUM DRAINAGE AREA ALLOWED PER TRAP IS 5 ACRES. THE DRAINAGE AREA IS THE TOTAL (INCLUDING OFF-SITE) AREA.



PLAN
N.T.S.

LEGEND



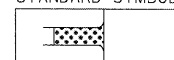
STABILIZED AGGREGATE DRIVEWAY

CONSTRUCTION SPECIFICATIONS AND NOTES

1. STABILIZED CONSTRUCTION ENTRANCE
A. LENGTH - AS REQUIRED, BUT NOT LESS THAN 80 FEET.
B. THICKNESS - NOT LESS THAN 4", ABOVE TOP OF CELLULAR CONFINEMENT GRID.
2. EXISTING DITCH DRAINAGE TO BE MAINTAINED.
3. GRADE FILL TO 1:10 ON APPROACH SIDE OF ENTRANCE

STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL





BEGIN IMPROVEMENT
 STA 1003+65.41 @ I-55 =
 STA 4993+41.47 @ WEST FRONTAGE RD

NORTH FORK OF GRANT CREEK

FLOODPLAIN

EX. 22.5' WIDE CONC. BRIDGE

REGRADE EXISTING DITCH FROM STA. 4993+41.47 TO STA. 4999+25 TO MAINTAIN DRAINAGE WITH VARIED BOTTOM WIDTH AND SIDE SLOPES

24" PIPE CULVERT REMOVAL
 40 LF (TO BE PAID FOR AS 24" STORM SEWER REMOVAL)

ENDING OF PROPOSED DITCH WFRANSO-LT AT STA. 4999+25

EX ROW

WEST FRONTAGE ROAD

MATCH LINE SEE SHEET DU-2
 WEST FRONTAGE RD
 STA. 5002+10.00
 RAMP D STA. 4021+08.63

EX. 2-13'x6' RCB

30"X19" RCP 30"X19" RCP 24" RCP

SB I-55

I-55

993+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00 1011+00 1012+00

NB I-55

ENDING OF PROPOSED DITCH EFRN.LT STA. 8005+00

7995+00

8000+00

REGRADE EXISTING DITCH FROM STA. 8005+00 TO STA. 8002+00 AT SLOPE OF 0.3%

EAST FRONTAGE ROAD

MATCH LINE SEE SHEET DU-2
 EAST FRONTAGE RD
 STA. 8005+50.00
 RAMP A STA. 7000+83.85

EX. 22' WIDE CONC. BRIDGE

REGRADE EXISTING DITCH FROM STA. 7998+25 TO STA. 8005+00 TO MAINTAIN DRAINAGE WITH VARIED BOTTOM WIDTH AND SIDE SLOPES

ENDING OF PROPOSED DITCH EFRN.RT AT STA. 8005+00

NORTH FORK OF GRANT CREEK

FLOODPLAIN

DRAINAGE LEGEND

- | | | | |
|--|-----------------------------|--|---|
| | PIPE CULVERT REMOVAL | | PROPOSED UNDERDRAIN |
| | EXISTING PIPE CULVERT | | PROPOSED PIPE CULVERT |
| | EXISTING STORM SEWER | | PROPOSED STORM SEWER |
| | EXISTING MANHOLE | | PROPOSED MANHOLE |
| | EXISTING CATCHBASIN | | PROPOSED CATCHBASIN |
| | EXISTING DITCH | | PROPOSED DITCH |
| | EXISTING SUMMIT | | PROPOSED SUMMIT |
| | EXISTING END SECTION | | PROPOSED END SECTION |
| | PROPOSED DRAINAGE PIPE | | PROPOSED SWALE |
| | PROPOSED DRAINAGE STRUCTURE | | SHEET FLOW |
| | PROPOSED BOX CULVERT | | PROPOSED HEADWALL |
| | WETLAND | | PROPOSED RIPRAP |
| | | | OUTFALL |
| | | | PROPOSED PAVED DITCH |
| | | | PROTECTIVE SLAB FOR EXISTING PIPE LINES |

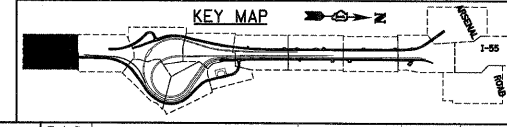
UTILITY LEGEND

- | | |
|--|-------------------|
| | FIBER OPTIC CABLE |
| | GAS LINE |
| | TELEPHONE CABLE |
| | ELECTRIC CABLE |

BEGIN IMPROVEMENT
 STA 1004+92.31 @ I-55 =
 STA 7997+84.25 @ EAST FRONTAGE RD

NOTES:

- EXISTING DRAINAGE TO BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION.
- ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
- ALL STATIONS AND OFFSETS ARE OFF OF ROAD AND RAMP BASE LINE OR CENTERLINE UNLESS OTHERWISE NOTED.
- CONNECTION OF EXISTING SEWER TO PROPOSED DRAINAGE STRUCTURE IS INCLUDED IN THE COST OF PROPOSED DRAINAGE STRUCTURE. ANY FITTINGS, BENDS AND COLLARS, IF REQUIRED, ARE INCIDENTAL TO THE CONTRACT.
- FOR DRAINAGE STRUCTURE AND PIPE INFORMATION, SEE DRAWINGS DU-16 TO DU-18.
- FOR RIPRAP DETAILS AND SCHEDULE, SEE DRAWINGS DU-21 & DU-22.
- FOR GRADING PLAN SEE GR DRAWINGS.
- ALL CONCRETE, CORRUGATED METAL END SECTION AND FLARED END SECTION REMOVAL SHALL BE CONSIDERED AS PART OF ITEM 20200100. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
- FOR STORM SEWER AND DITCH PROFILES, SEE DRAWINGS DP-1 TO DP-18.
- ALL PROPOSED STORM SEWERS SHALL BE REINFORCED CONCRETE.
- ALL BOX CULVERTS SHALL BE PRECAST AND END SECTIONS SHALL BE CAST-IN-PLACE.
- ALL EXISTING UNDERDRAIN OUTLETS THAT ARE LOCATED IN THE DITCHES THAT WILL BE FILLED DUE TO PROPOSED ROADWAY WIDENING SHALL BE CONNECTED TO NEAREST DRAINAGE STRUCTURE. QUANTITY FOR THE PROPOSED PIPE UNDERDRAINS 6" WILL BE PROVIDED. ALL FITTINGS, BENDS AND COLLARS, IF REQUIRED, ARE INCIDENTAL TO THE CONTRACT.
- ELLIPTICAL CULVERT PIPE OF THE REQUIRED SPAN AND RISE TO BE PAID FOR AS PIPE OF EQUIVALENT ROUND SIZE DIAMETER.
- STONE RIPRAP FOR UNDERDRAIN OUTLET SHALL BE PAID FOR AS CLASS A3 RIPRAP WITH 0.67 SQ. YD. FOR EACH OUTLET.
- PROPOSED TEMPORARY CULVERTS TO BE PLUGGED WITH CLASS S1 CONCRETE AND FILLED WITH CLSM AS PER SECTION 550.05 OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR UNDER PAY ITEMS 59300100 AND X0322208 RESPECTIVELY.
- FOR PAVED DITCH TYPE AND LOCATION INFORMATION, SEE DRAWING DU-22.
- FOR PROPOSED PROTECTIVE SLAB LOCATIONS FOR EXISTING PIPELINES SEE DRAWING DU-9.



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FILE NAME = D:\60\C31-SHT-DRAIN\01.dgn	USER NAME = TK[uege]	DESIGNED - PKT/VP	REVISED -
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		DATE - 12/18/09	REVISED -

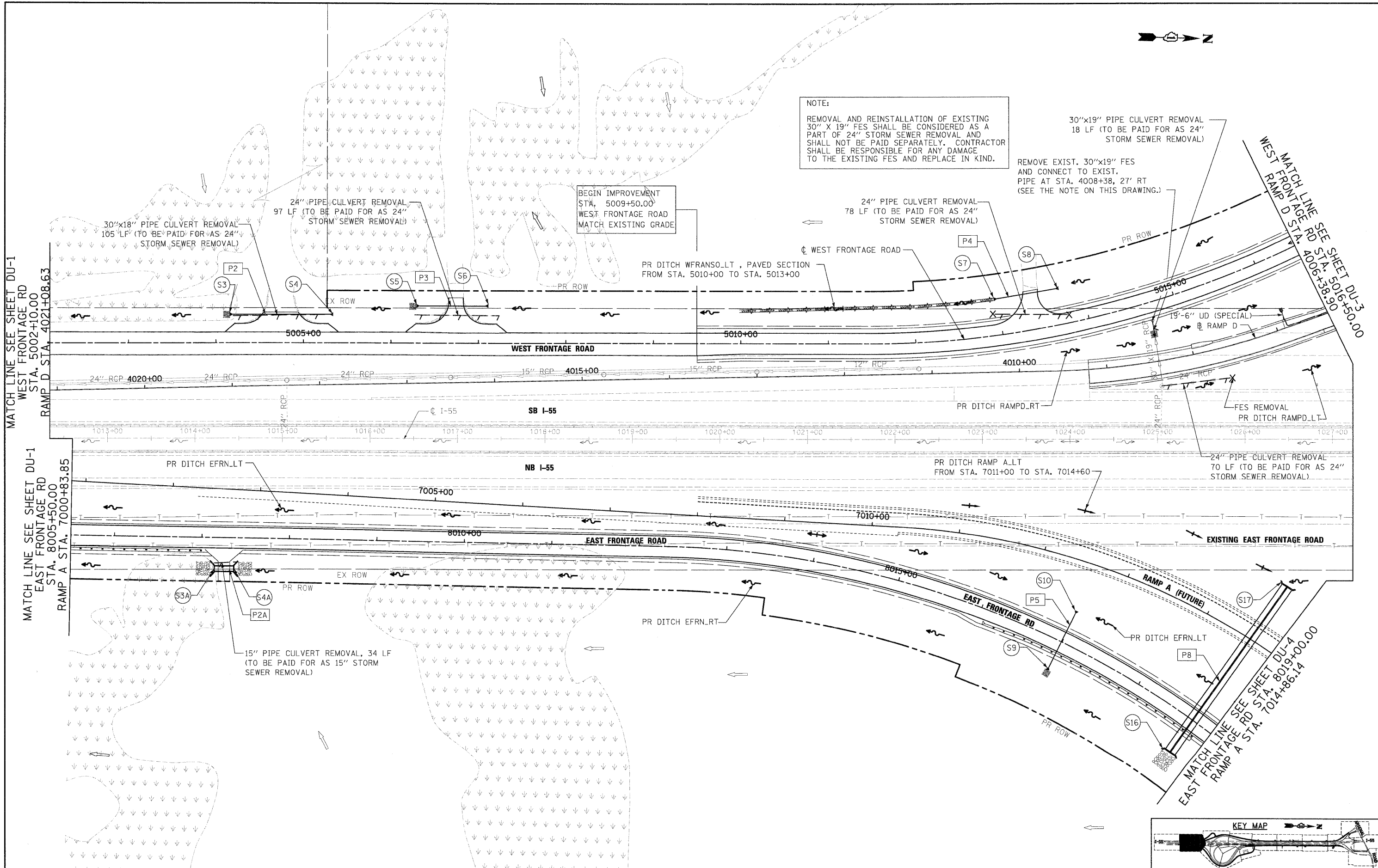
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 1 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	144
CONTRACT NO. 60C31				

FINAL



NOTE:
REMOVAL AND REINSTALLATION OF EXISTING 30" X 19" FES SHALL BE CONSIDERED AS A PART OF 24" STORM SEWER REMOVAL AND SHALL NOT BE PAID SEPARATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING FES AND REPLACE IN KIND.

30"x19" PIPE CULVERT REMOVAL
18 LF (TO BE PAID FOR AS 24" STORM SEWER REMOVAL)

REMOVE EXIST. 30"x19" FES AND CONNECT TO EXIST. PIPE AT STA. 4008+38, 27' RT (SEE THE NOTE ON THIS DRAWING.)

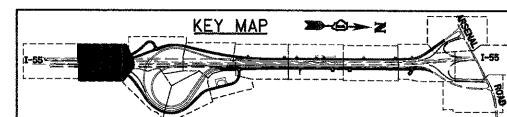
BEGIN IMPROVEMENT
STA. 5009+50.00
WEST FRONTAGE ROAD
MATCH EXISTING GRADE

MATCH LINE SEE SHEET DU-1
WEST FRONTAGE RD
STA. 5002+10.00
RAMP D STA. 4021+08.63

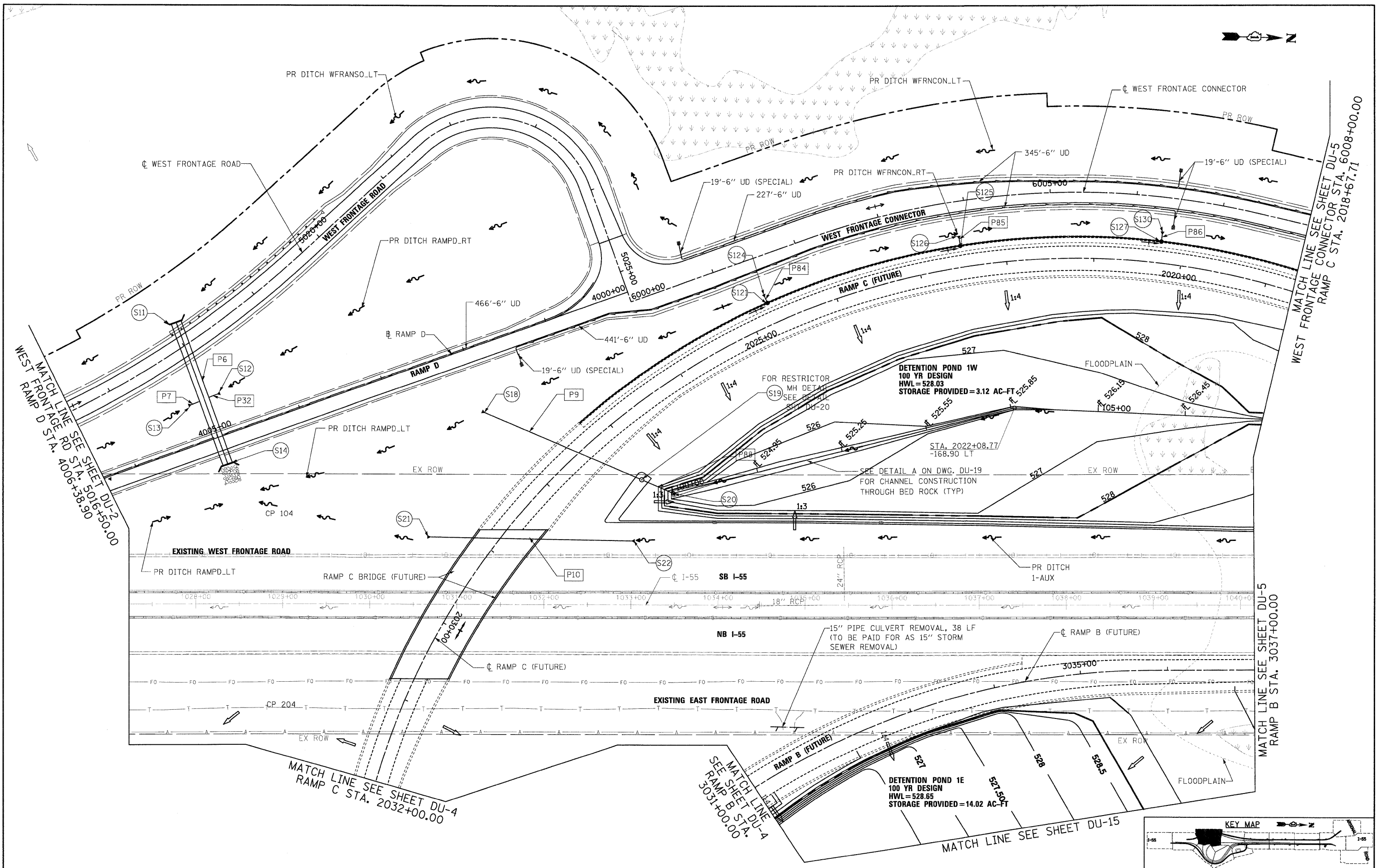
MATCH LINE SEE SHEET DU-1
EAST FRONTAGE RD
STA. 8005+50.00
RAMP A STA. 7000+83.85

MATCH LINE SEE SHEET DU-3
WEST FRONTAGE RD STA. 5016+50.00
RAMP D STA. 4006+38.90

MATCH LINE SEE SHEET DU-4
EAST FRONTAGE RD STA. 8019+00.00
RAMP A STA. 7014+86.14



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PLOT SCALE = 1"=50'	CHECKED - CL	DATE - 12/18/09	REVISED -			SCALE: 1"=50'	SHEET NO. 2 OF 22 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31		
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT			
						FINAL						



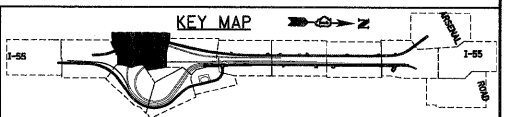
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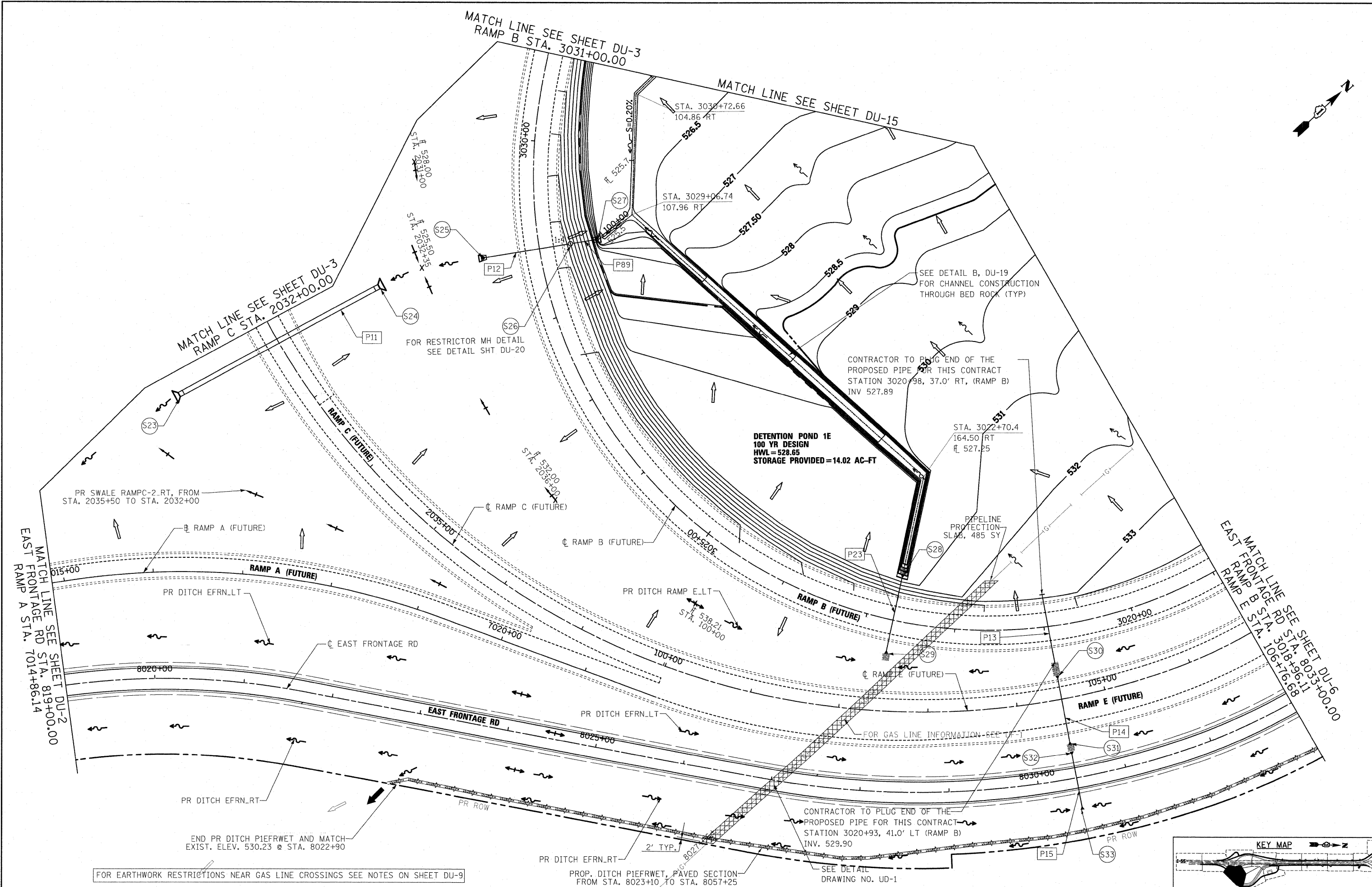
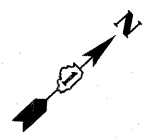
PLOT SCALE = 1"=50'	DATE - 12/18/09	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITY PLAN	
SCALE: 1"=50'	SHEET NO. 3 OF 22 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	146
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	





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FILE NAME = D168C31-SHT-DRAIN04.dgn	USER NAME = jlovaer	DESIGNED - PKT/VP	REVISED -
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		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
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DRAINAGE AND UTILITY PLAN
 SCALE: 1"=50' SHEET NO. 4 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	147
CONTRACT NO. 60C31				

FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

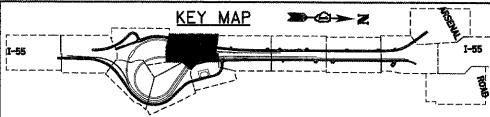
FINAL

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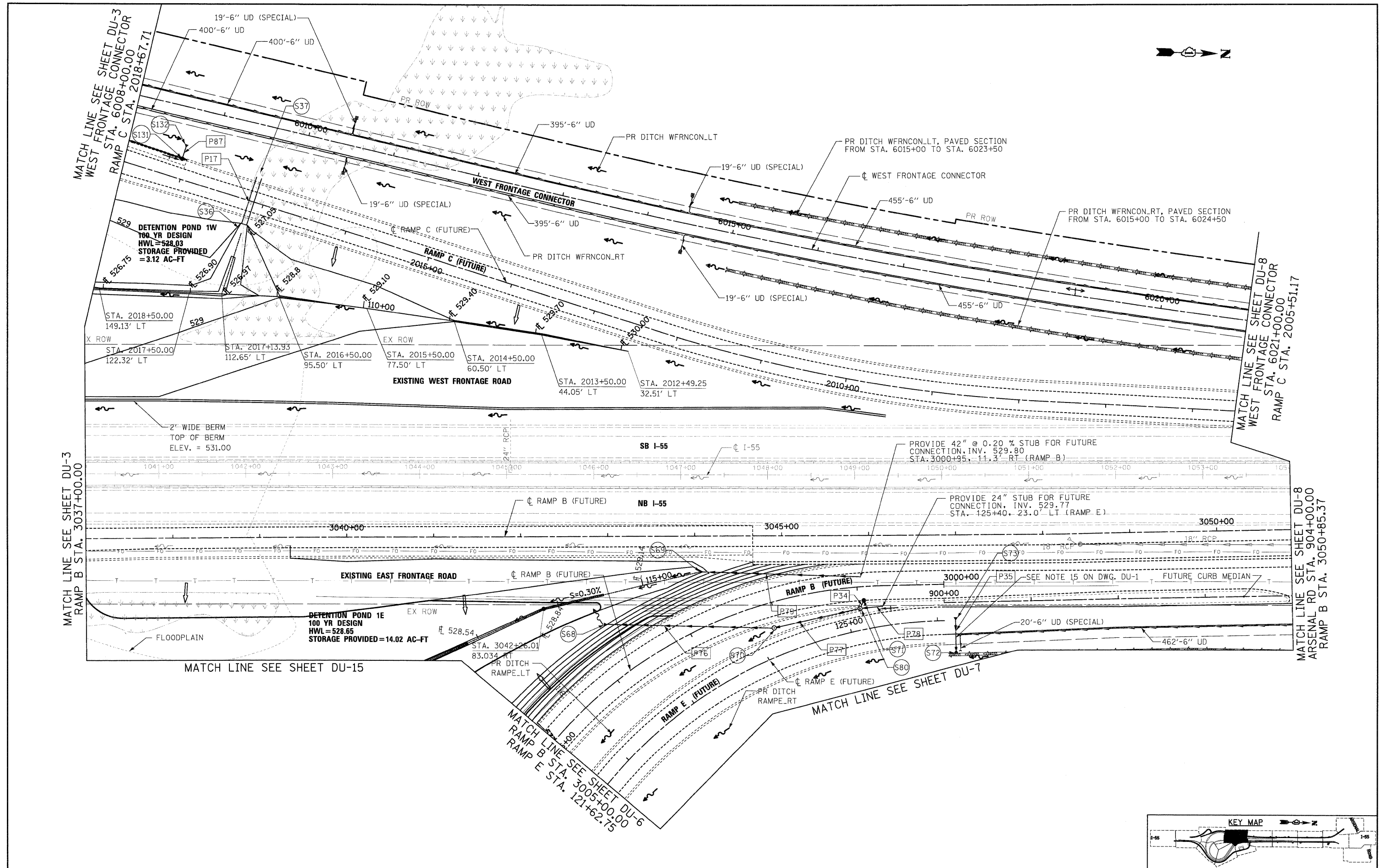
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

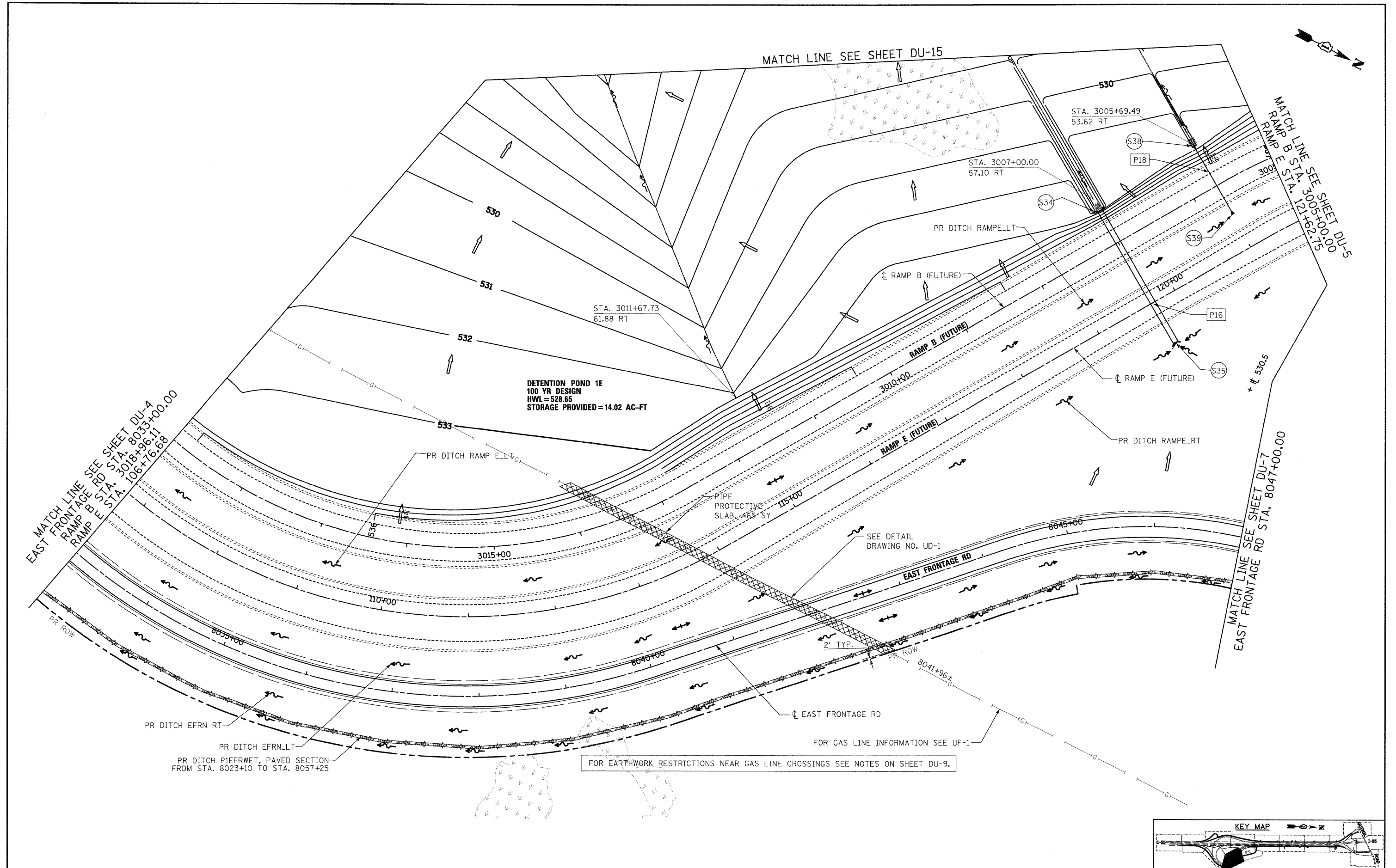
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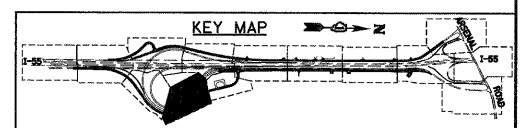
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	148
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



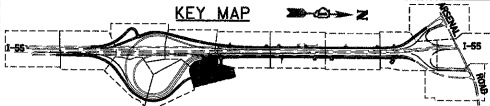
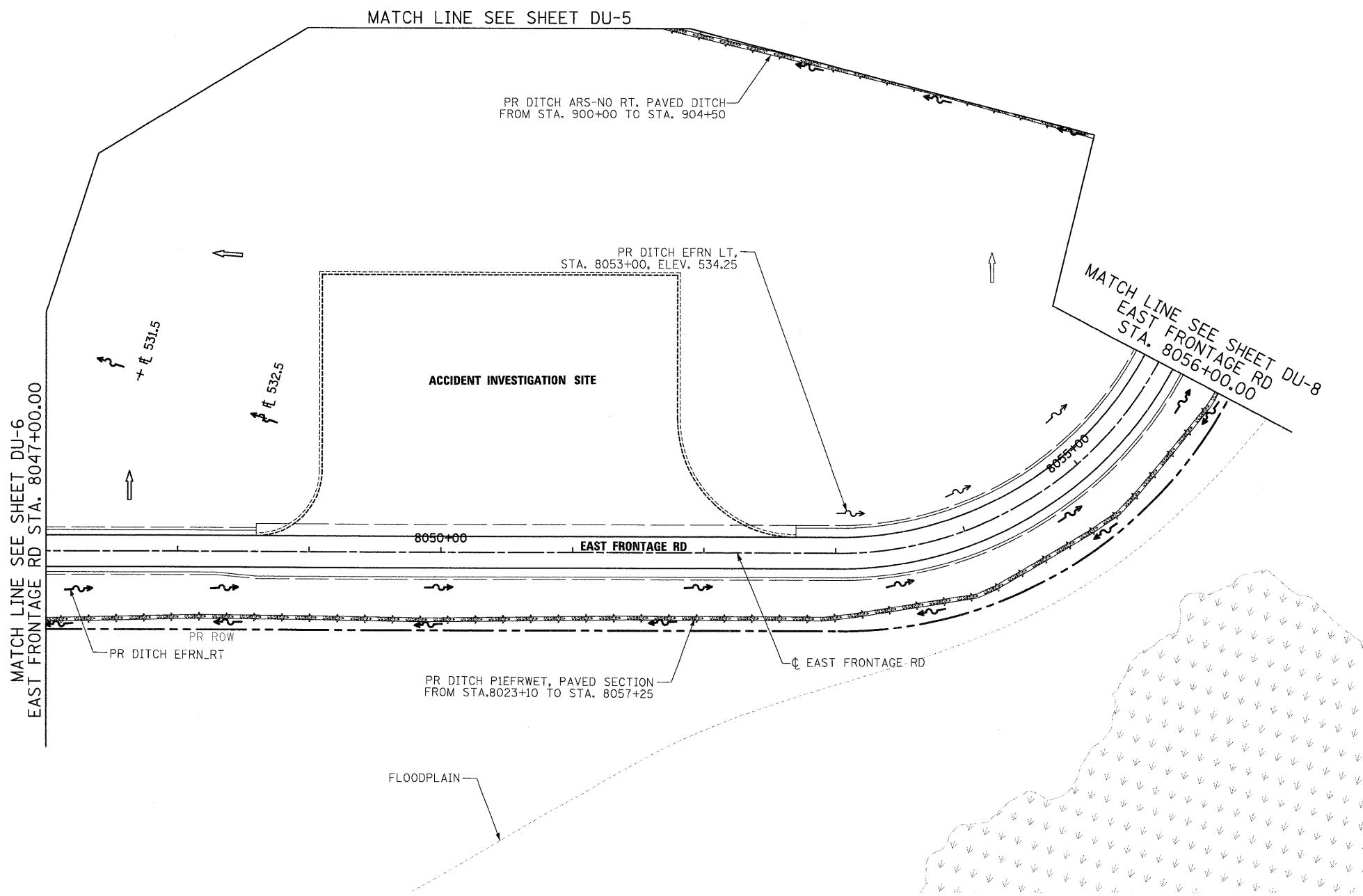
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FILE NAME = D160C31-SHT-DRAIN05.dgn	USER NAME = TKluegel	DESIGNED - PKT/VP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 149
PLOT SCALE = 1:50	CHECKED - CL	DRAWN - PKT/VP	REVISED -			CONTRACT NO. 60C31				
PLOT DATE = 12/14/2009	DATE - 12/18/09	CHECKED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE: 1"=50'	SHEET NO. 6 OF 22 SHEETS	STA.	TO STA.	



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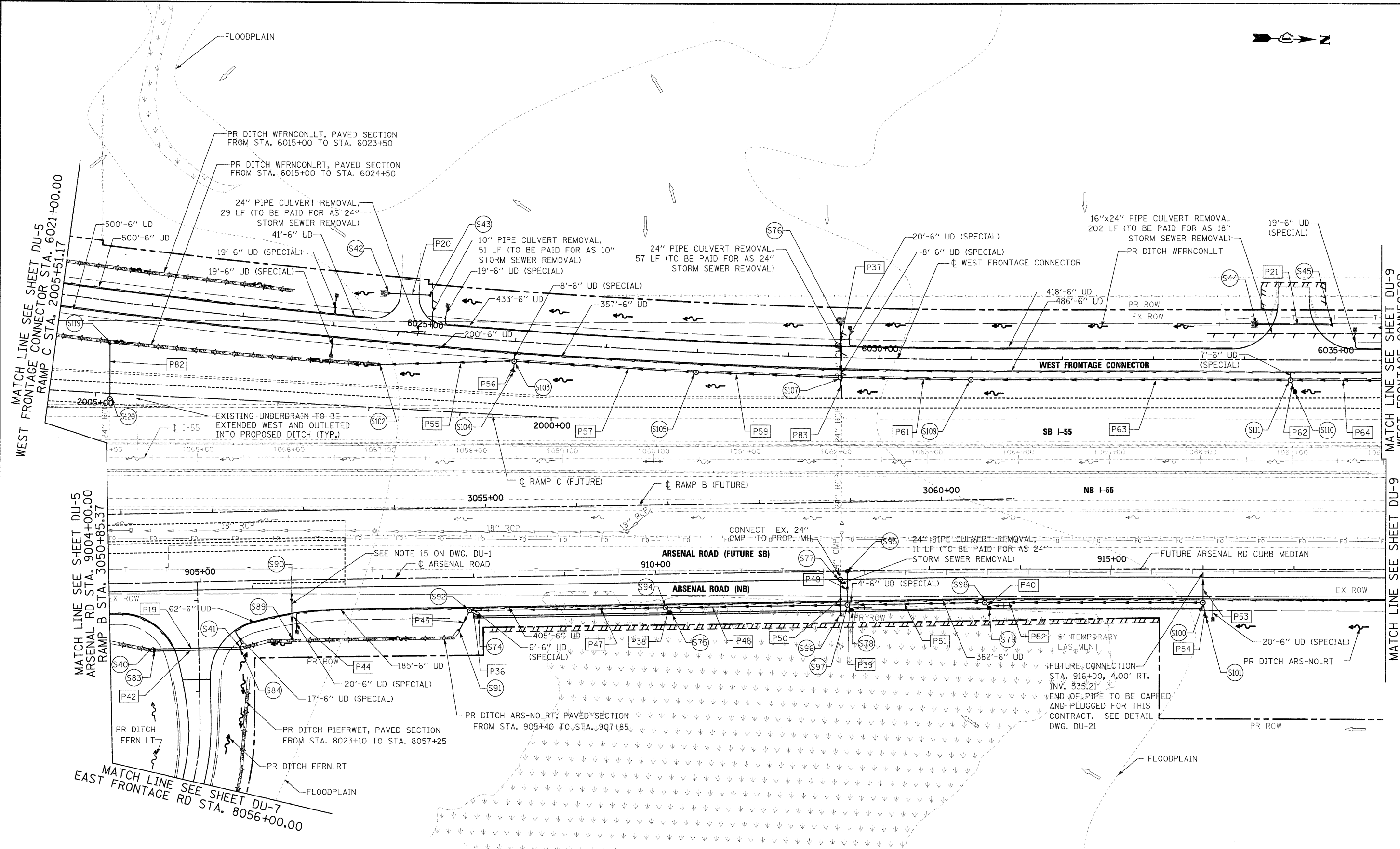
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		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
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DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 7 OF 22 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	150
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



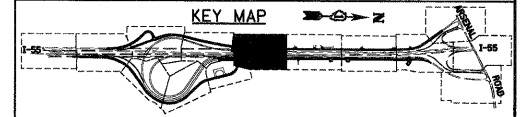
MATCH LINE SEE SHEET DU-5
WEST FRONTAGE CONNECTOR STA. 6021+00.00
RAMP C STA. 2005+51.17

MATCH LINE SEE SHEET DU-9
WEST FRONTAGE CONNECTOR
WEST STA. 6035+50.00
RAMP C STA. 1990+89.59

MATCH LINE SEE SHEET DU-5
ARSENAL RD STA. 9004+00.00
RAMP B STA. 3050+85.37

MATCH LINE SEE SHEET DU-9
ARSENAL RD STA. 918+00.00

MATCH LINE SEE SHEET DU-7
EAST FRONTAGE RD STA. 8056+00.00



FILE NAME = D162C31-SHT-DRAIN88.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

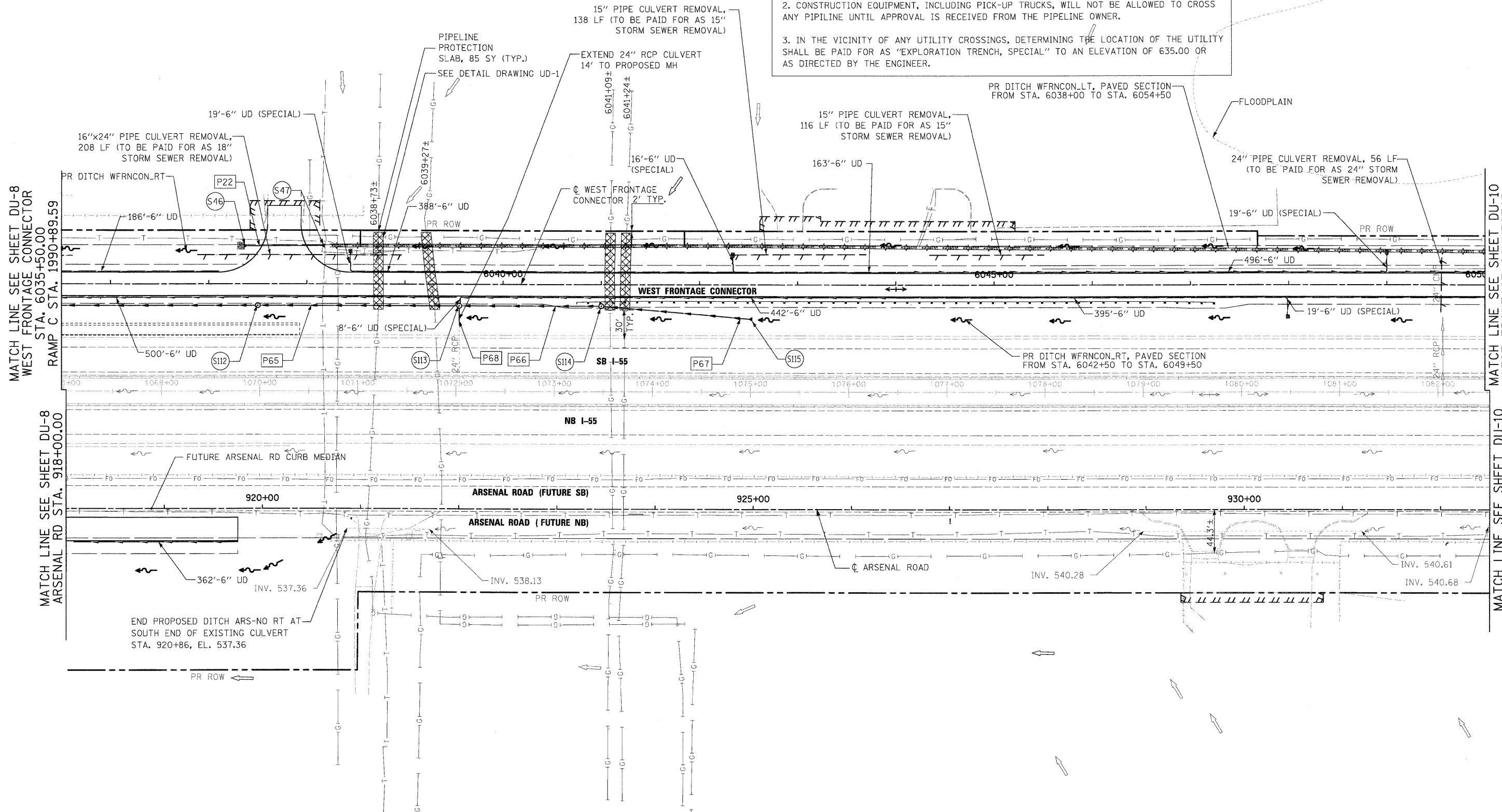
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	151
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

NOTES:

1. AT ALL UTILITY PIPELINE CROSSINGS OR AT LOCATIONS DIRECTED BY THE ENGINEER, ALL EARTH EXCAVATION AND ROCK EXCAVATION SHALL BE PERFORMED WITH HAND TOOLS OR OTHER NONDESTRUCTIVE METHODS APPROVED BY THE ENGINEER OR THE PIPELINE OWNER AS OUTLINED IN THE SPECIAL PROVISION, EXISTING PIPELINE COMPANIES REQUIREMENTS.
2. CONSTRUCTION EQUIPMENT, INCLUDING PICK-UP TRUCKS, WILL NOT BE ALLOWED TO CROSS ANY PIPELINE UNTIL APPROVAL IS RECEIVED FROM THE PIPELINE OWNER.
3. IN THE VICINITY OF ANY UTILITY CROSSINGS, DETERMINING THE LOCATION OF THE UTILITY SHALL BE PAID FOR AS "EXPLORATION TRENCH, SPECIAL" TO AN ELEVATION OF 635.00 OR AS DIRECTED BY THE ENGINEER.



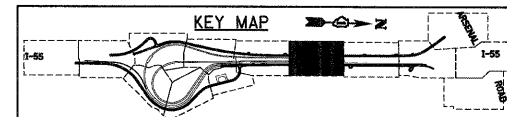
MATCH LINE SEE SHEET DU-8
WEST FRONTAGE CONNECTOR
STA. 6035+50.00
RAMP C STA. 1990+89.59

MATCH LINE SEE SHEET DU-10
WEST FRONTAGE CONNECTOR
STA. 6050+00.00

MATCH LINE SEE SHEET DU-8
ARSENAL RD STA. 918+00.00

MATCH LINE SEE SHEET DU-10
ARSENAL RD STA. 932+50.00

END PROPOSED DITCH ARS-NO RT AT
SOUTH END OF EXISTING CULVERT
STA. 920+86, EL. 537.36



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DEPARTMENT OF TRANSPORTATION

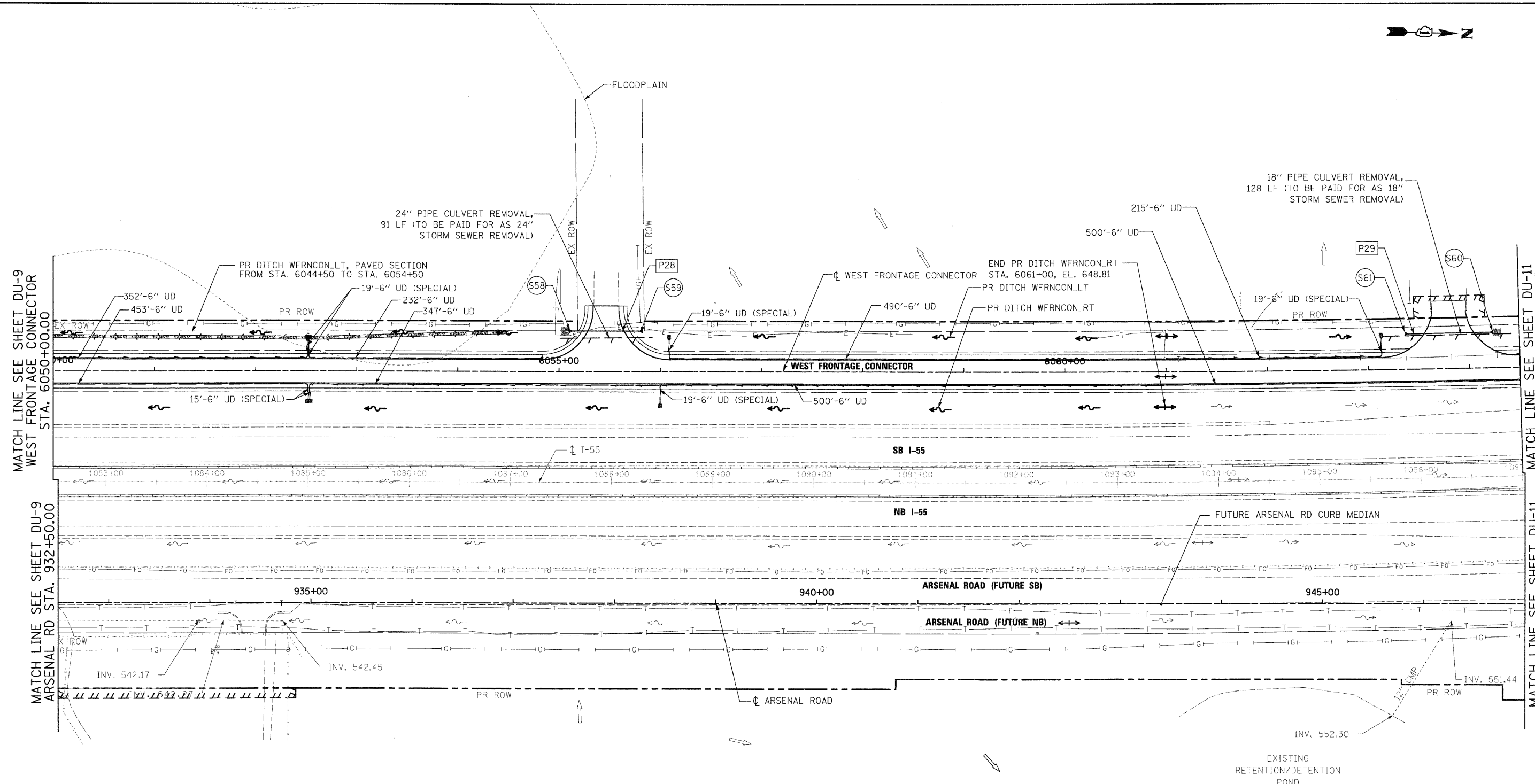
DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 9 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	152
CONTRACT NO. 60C31				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

FINAL



MATCH LINE SEE SHEET DU-9
WEST FRONTAGE CONNECTOR
STA. 6050+00.00

MATCH LINE SEE SHEET DU-9
ARSENAL RD STA. 932+50.00

MATCH LINE SEE SHEET DU-11
WEST FRONTAGE CONNECTOR
STA. 6064+50.00

MATCH LINE SEE SHEET DU-11
ARSENAL RD STA. 947+00.00

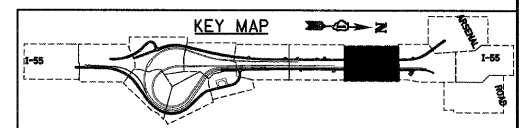
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		DATE - 12/18/09	REVISED -

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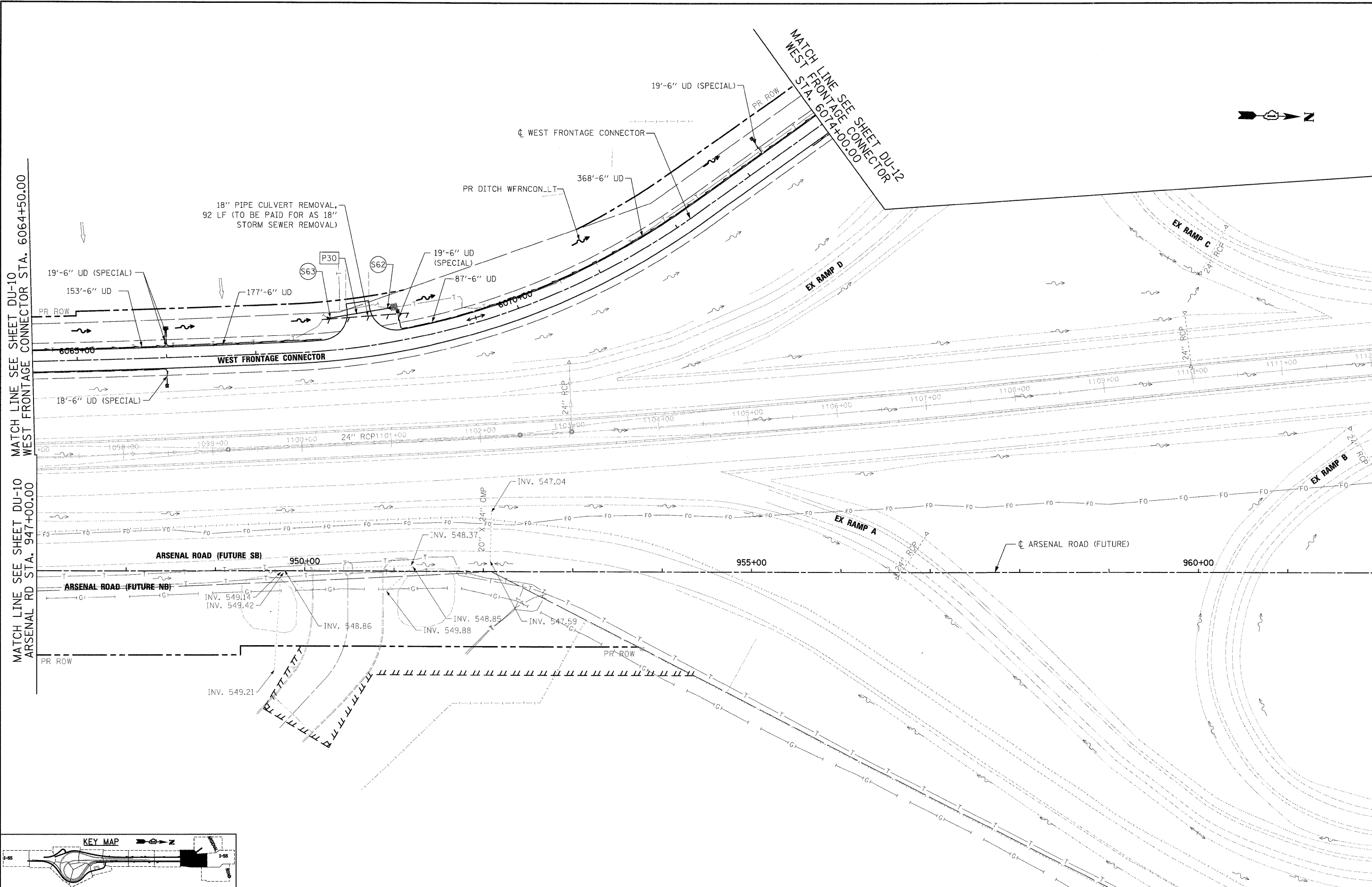
DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 10 OF 22 SHEETS STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	153
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

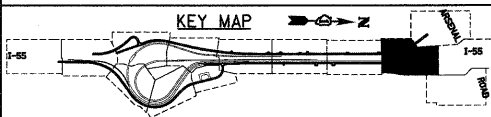
FINAL



MATCH LINE SEE SHEET DU-10 WEST FRONTAGE CONNECTOR STA. 6064+50.00

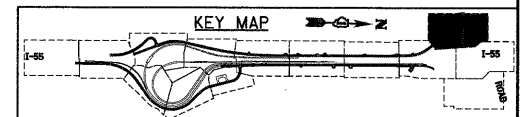
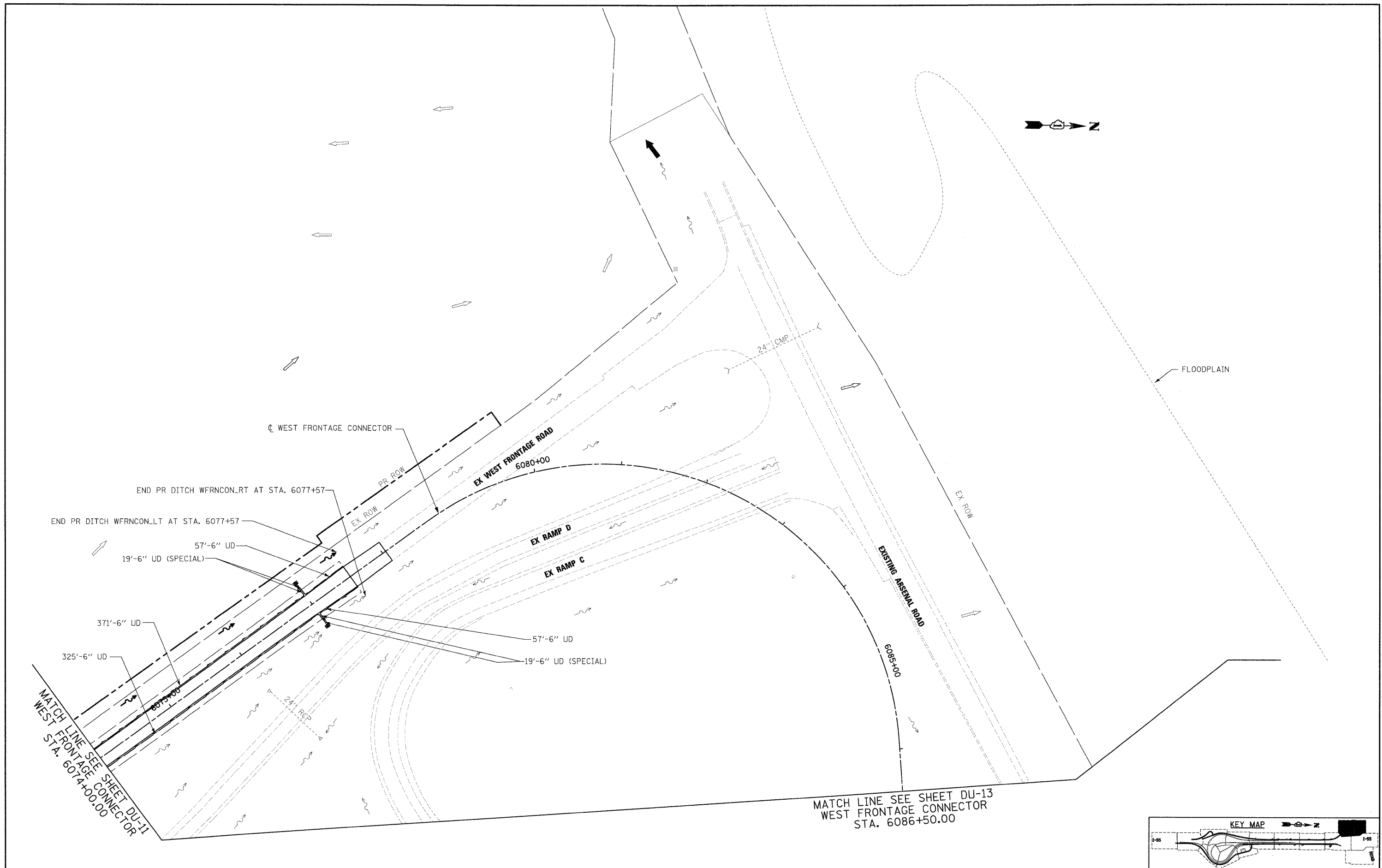
MATCH LINE SEE SHEET DU-10 ARSENAL RD STA. 947+00.00

MATCH LINE SEE SHEET DU-13 ARSENAL RD STA. 9062+00.00



FILE NAME = 0160C31-SHT-DRAIN1.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 154
PLOT SCALE = 1"=50'	CHECKED - CL	REVISOR -	REVISOR -			CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISOR -	REVISOR -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE: 1"=50'	SHEET NO. 11 OF 22 SHEETS	STA. TO STA.		

FINAL



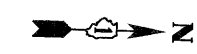
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**STATE OF ILLINOIS
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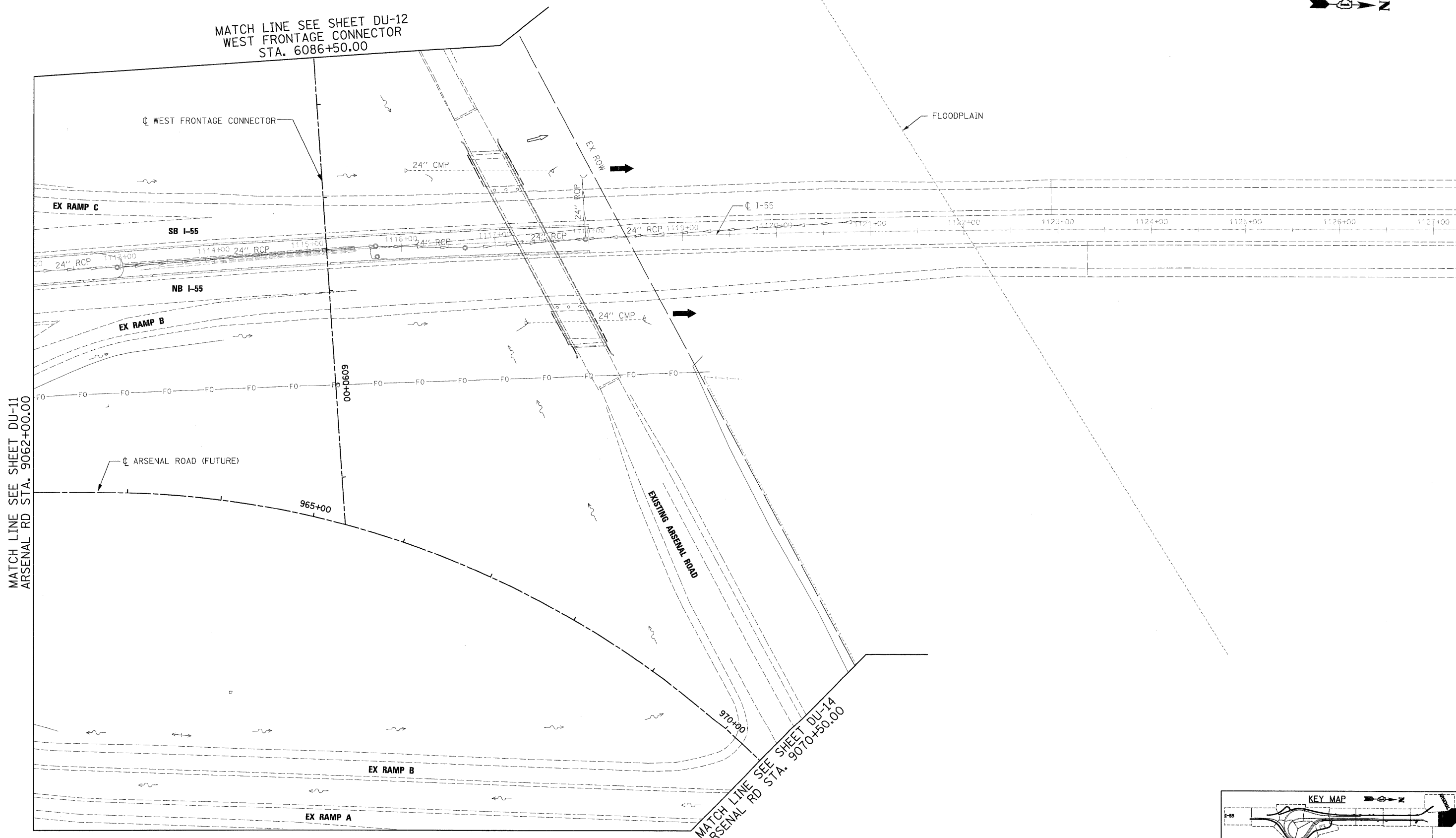
DRAINAGE AND UTILITY PLAN			
SCALE: 1"=50'	SHEET NO. 12 OF 22 SHEETS	STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	155
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL

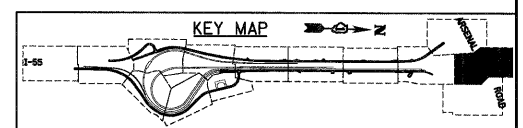


MATCH LINE SEE SHEET DU-12
WEST FRONTAGE CONNECTOR
STA. 6086+50.00



MATCH LINE SEE SHEET DU-11
ARSENAL RD STA. 9062+00.00

MATCH LINE SEE SHEET DU-14
ARSENAL RD STA. 9070+50.00



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FILE NAME = D160C31-SHT-DRAIN13.dgn	USER NAME = TKI\ega1	DESIGNED - VP/PTK	REVISED -
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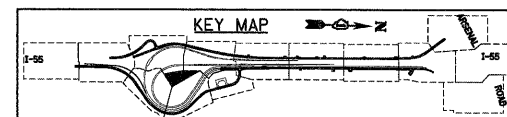
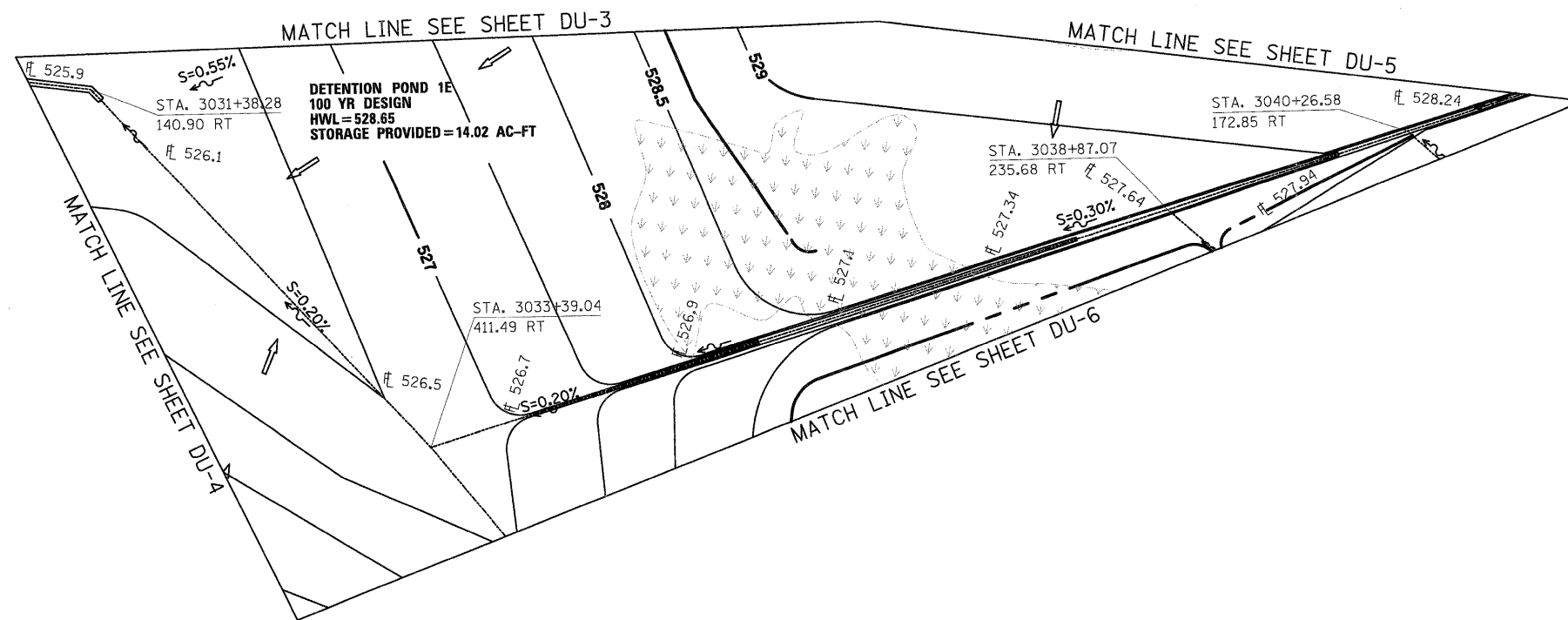
DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 13 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	156
CONTRACT NO. 60C31				

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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FILE NAME = D1680C31-SHT-DRAIN15.dgn	USER NAME = TK1uega1	DESIGNED - VP/PTK	REVISED -
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		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
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DRAINAGE AND UTILITY PLAN
 SCALE: 1"=50' SHEET NO. 15 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	158
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE INFORMATION TABLE

STRUCT. NO.	DRAWING NUMBER	ROAD NAME	STATION	OFFSET (FT)		TYPE OF STRUCTURE	FR. AND LID	RIM ELEV.	INVERT ELEVATIONS					
				LEFT	RIGHT				NORTH	SOUTH	EAST	WEST		
S1	DU-1	WEST FRONTAGE RD.	5001+39.	30		PRC FES EQRS 54" (68" X 43")	-	-	518.80	-	-	-	-	
S2	DU-1		5001+80.	30		PRC FES EQRS 54" (68" X 43")	-	-	-	518.92	-	-	-	
S3	DU-2		5004+20.	32		PRC FES EQRS 54" (68" X 43")	-	-	519.64	-	-	-	-	
S4	DU-2		5005+31.	32		PRC FES EQRS 54" (68" X 43")	-	-	-	519.98	-	-	-	
S3A	DU-2	EAST FRONTAGE RD.	8007+07.		35.4	CIP HEADWALL 6'X3'	-	-	519.67	-	-	-	-	
S4A	DU-2		8007+47.		35.4	CIP HEADWALL 6'X3'	-	-	-	519.79	-	-	-	
S5	DU-2	WEST FRONTAGE RD.	5006+33.	43		PRC FES EQRS 48" (60" X 38")	-	-	520.29	-	-	-	-	
S6	DU-2		5007+08.	43		PRC FES EQRS 48" (60" X 38")	-	-	-	520.51	-	-	-	
S7	DU-2		5012+99.	41.5		PRC FES 48"	-	-	521.82	-	-	-	-	
S8	DU-2		5013+71.	41.5		PRC FES 48"	-	-	-	521.92	-	-	-	
S9	DU-2	EAST FRONTAGE RD.	8016+99.		32	PRC FES 24"	-	-	-	-	-	522.65		
S10	DU-2		8016+99.	36		PRC FES 24"	-	-	-	-	523.25	-	-	
S11	DU-3	RAMP D	4005+00.		142.2	CIP HEADWALL 2-6'X3'	-	-	-	-	522.54	-	-	
S12	DU-3		4004+82.		48	PRC FES 18"	-	-	524.95	-	-	-	-	
S13	DU-3		4005+18.		48	PRC FES 18"	-	-	-	524.95	-	-	-	
S14	DU-3		4005+00.		32.7	CIP HEADWALL 2-6'X3'	-	-	-	-	-	-	523.17	
S15	STRUCTURE NUMBER NOT USED													
S16	DU-2	EAST FRONTAGE RD.	8018+74.		39.8	CIP HEADWALL 2-5'X3'	-	-	-	-	523.17	-	-	
S17	DU-2		8018+74.	187.5		CIP HEADWALL 2-5'X3'	-	-	-	-	-	-	523.57	
S18	DU-3	RAMP C	2027+90.		109	PRC FES 48"	-	-	524.40	-	-	-	-	
S19	DU-3		2027+14.		72	MH TY A, 6' DIA W/ RESTRICTOR	2-TY 1F, CL	537.80	524.70	524.70	-	-	-	-
S20	DU-3		2026+83.		106	PRC FES 48"	-	-	-	524.75	-	-	-	-
S21	DU-3		2028+81.		81	PRC FES 24"	-	-	524.37	-	-	-	-	-
S22	DU-3		2028+81.		150	PRC FES 24"	-	-	-	525.41	-	-	-	-
S23	DU-4		2032+25.		127.8	CIP HEADWALL 6'X3'	-	-	-	525.00	-	-	-	-
S24	DU-4		2032+25.		119.6	CIP HEADWALL 6'X3'	-	-	525.25	-	-	-	-	-
S25	DU-4		3028+81.		62	PRC FES 48"	-	-	-	525.32	-	-	-	-
S26	DU-4	RAMP B	3028+81.		34	MH TY A, 6' DIA W/ RESTRICTOR	2-TY 1F, CL	535.86	525.46	-	-	-	-	
S27	DU-4		3028+81.		63	PRC FES 48"	-	-	-	525.50	-	-	-	-
S28	DU-4	3022+70.		48	PRC FES EQRS 42" (53" X 34")	-	-	-	-	-	528.91	-	-	
S29	DU-4	3022+70.		35	PRC FES EQRS 42" (53" X 34")	-	-	-	-	-	-	531.40	-	
S30	DU-4	RAMP E	104+51.		26	PRC FES EQRS 27" (34" X 22")	-	-	-	-	532.06	-	-	
S31	DU-4		104+51.		51	PRC FES EQRS 27" (34" X 22")	-	-	-	-	-	-	532.35	-
S32	DU-4	EAST FRONTAGE RD.	8030+43.6		27	PRC FES 18"	-	-	-	-	532.35	-	-	
S33	DU-4		8030+43.6		30	PRC FES 18"	-	-	-	-	-	-	533.33	-
S34	DU-6	RAMP B	3007+00.		41	CIP HEADWALL 6'X3'	-	-	-	-	528.88	-	-	
S35	DU-6		3007+00.		121.7	CIP HEADWALL 6'X3'	-	-	-	-	-	-	529.48	-
S36	DU-5	RAMP C	2017+14.		28	CIP HEADWALL 6'X3'	-	-	-	-	-	-	526.80	
S37	DU-5		2017+14.		29	CIP HEADWALL 6'X3'	-	-	-	-	-	527.04	-	-
S38	DU-6	RAMP B	3005+70.		48	PRC FES EQRS 30" (38" X 24")	-	-	529.90	-	-	-	-	
S39	DU-6		3005+70.		31	PRC FES EQRS 30" (38" X 24")	-	-	-	530.31	-	-	-	-
S40	DU-8	ARSENAL RD.	904+51.		70	PRC FES EQRS 30" (38" X 24")	-	-	532.60	-	-	-	-	
S41	DU-8		905+41.		70	PRC FES EQRS 30" (38" X 24")	-	-	-	532.77	-	-	-	-
S42	DU-8	WEST FRONTAGE CONNECTOR	6024+60.		41	PRC FES EQRS 36" (45" X 29")	-	-	530.24	-	-	-	-	
S43	DU-8		6025+00.		43	PRC FES EQRS 36" (45" X 29")	-	-	-	530.40	-	-	-	-
S44	DU-8		6034+15.		39	PRC FES EQRS 36" (45" X 29")	-	-	535.44	-	-	-	-	-
S45	DU-8		6034+93.		39	PRC FES EQRS 36" (45" X 29")	-	-	-	535.91	-	-	-	-
S46	DU-9		6037+39.		39	PRC FES 36"	-	-	-	537.38	-	-	-	-
S47	DU-9		6038+14.		39	PRC FES 36"	-	-	-	537.83	-	-	-	-
S48	STRUCTURE NUMBER NOT USED													
S49	STRUCTURE NUMBER NOT USED													
S50	STRUCTURE NUMBER NOT USED													
S51	STRUCTURE NUMBER NOT USED													
S52	STRUCTURE NUMBER NOT USED													
S53	STRUCTURE NUMBER NOT USED													
S54	STRUCTURE NUMBER NOT USED													
S55	STRUCTURE NUMBER NOT USED													
S56	STRUCTURE NUMBER NOT USED													
S57	STRUCTURE NUMBER NOT USED													
S58	DU-10	WEST FRONTAGE CONNECTOR	6055+14.		40	PRC FES 18"	-	-	541.04	-	-	-	-	
S59	DU-10		6055+79.		40	PRC FES 18"	-	-	-	541.98	-	-	-	-
S60	DU-10		6064+20.		35	PRC FES 18"	-	-	-	548.04	-	-	-	-
S61	DU-10		6063+40.		35	PRC FES 18"	-	-	548.35	-	-	-	-	-
S62	DU-11		6068+50.		38	PRC FES 18"	-	-	-	545.77	-	-	-	-
S63	DU-11	6067+87.		36	PRC FES 18"	-	-	546.11	-	-	-	-	-	
S64	STRUCTURE NUMBER NOT USED													
S65	STRUCTURE NUMBER NOT USED													
S66	STRUCTURE NUMBER NOT USED													
S67	STRUCTURE NUMBER NOT USED													

DRAINAGE STRUCTURE INFORMATION TABLE

STRUCT. NO.	DRAWING NUMBER	ROAD NAME	STATION	OFFSET (FT)		TYPE OF STRUCTURE	FR. AND LID	RIM ELEV.	INVERT ELEVATIONS					
				LEFT	RIGHT				NORTH	SOUTH	EAST	WEST		
S68	DU-5	RAMP B	3003+75.		61	PRC FES 24"	-	-	529.25	-	-	-	-	
S69	DU-5		3044+05.		41.5	PRC FES 42"	-	-	-	529.44	-	-	-	-
S70	DU-5		3002+05.		29.5	MH TYPE A, 5' DIA	TY 1F, CL	535.00	529.57	529.57	-	-	-	-
S71	DU-5		3000+95.		16	CB TYPE A, 4' DIA	TY 20 F & G	636.36	-	-	-	532.00	-	-
S72	DU-5	ARSENAL RD.	900+10.		53	PRC FES 18"	-	-	-	-	-	-	532.00	
S73	DU-5		900+10.		27	PRC FES 18"	-	-	-	-	-	-	533.29	-
S74	DU-8		908+05.		43	CB TYPE C	TY 20 F & G	538.53	-	-	-	-	534.02	-
S75	DU-8		910+15.		43	CB TYPE C	TY 20 F & G	539.16	-	-	-	-	534.65	-
S76	DU-8	W. FRONTAGE	6029+56.		33	PRC FES 24"	-	-	-	-	-	-	532.50	
S77	DU-8	ARSENAL RD.	912+02.		9	MH TYPE A, 5' DIA	TY 1F, CL	540.60	-	-	-	531.97	532.22	
S78	DU-8		912+15.		43	CB TYPE C	TY 20 F & G	539.76	-	-	-	-	535.26	-
S79	DU-8		913+65.		43	CB TYPE C	TY 20 F & G	541.15	-	-	-	-	535.70	-
S80	DU-8	RAMP B	3000+98.		25	MH TYPE A, 5' DIA	TY 1F, CL	536.50	529.73	529.73	-	-	531.90	
S81	STRUCTURE NUMBER NOT USED													
S82	STRUCTURE NUMBER NOT USED													
S83	DU-8	ARSENAL RD.	904+51.		74	PRC FES EQRS 30" (38" X 24")	-	-	532.60	-	-	-	-	
S84	DU-8		905+41.		74	PRC FES EQRS 30" (38" X 24")	-	-	-	532.77	-	-	-	-
S85	STRUCTURE NUMBER NOT USED													
S86	STRUCTURE NUMBER NOT USED													
S87	STRUCTURE NUMBER NOT USED													
S88	STRUCTURE NUMBER NOT USED													
S89	DU-8	ARSENAL RD.	906+00.		67	PRC FES 18"	-	-	-	-	-	533.12	-	
S90	DU-8		906+00.		24	PRC FES 18"	-	-	-	-	-	-	533.55	-
S91	DU-8		907+85.		56	PRC FES 36"	-	-	-	-	-	-	533.48	-
S92	DU-8		907+95.		36.95	MH TYPE A, 5' DIA	TY 20 F & G	538.74	533.57	533.52	533.90	-	-	-
S93	STRUCTURE NUMBER NOT USED													
S94	DU-8	ARSENAL RD.	910+10.		36.95	MH TYPE A, 5' DIA	TY 20 F & G	539.38	534.02	533.97	534.55	-	-	
S95	DU-8		912+10.		0	CB TYPE C	TY 8 GRATE	536.86	-	-	-	534.60	-	-
S96	DU-8		912+02.		49	PRC FES EQRS 18" (23" X 14")	-	-	-	-	-	-	532.20	-
S97	DU-8		912+10.		36.95	MH TYPE A, 5' DIA	TY 20 F & G	539.98	534.45	534.40	535.16	-	-	-
S98	DU-8	913+60.		36.95	MH TYPE A, 5' DIA	TY 20 F & G	540.43	534.79	534.74	535.60	-	-	-	
S99	STRUCTURE NUMBER NOT USED													
S100	DU-8	ARSENAL RD.	916+00.		36.95	MH TYPE A, 5' DIA	TY 1F, CL	541.14	-	535.25	535.32	535.32	-	
S101	DU-8		916+03.		50	PRC FES 36"	-	-	-	-	-	-	535.39	-
S102	DU-8	6024+50.		32.8	PRC FES EQRS 42" (53" X 34")	-	-	-	-	-	529.45	-	-	
S103	DU-8	W. FRONTAGE	6026+00.		22	MH TYPE A, 6' DIA	TY 1F, CL	535.00	530.20	530.20	531.32	-	-	
S104	DU-8	CONNECTOR	6026+00.		30	PRC FES 12"	-	-	-	-	-	-	531.50	
S105	DU-8	6028+00.		22	MH TYPE A, 6' DIA	TY 1F, CL	536.10	530.60	530.60	-	-	-	-	
S106	STRUCTURE NUMBER NOT USED													
S107	DU-8	W. FRONTAGE	6029+60.		22	MH TYPE A, 5' DIA	TY 1F, CL	537.20	531.00	531.00	531.00	532.20	-	
S108	STRUCTURE NUMBER NOT USED													
S109	DU-8	WEST FRONTAGE CONNECTOR	6031+00.		22	MH TYPE A, 5' DIA	TY 1F, CL	537.80	531.36	531.36	-	-	-	
S110	DU-8		6034+55.		35	CB TYPE C	TY 8 GRATE	537.30	-	-	-	-	534.00	-
S111	DU-9		6034+50.		22	MH TYPE A, 5' DIA	TY 1F, CL	540.15	533.11	533.11	533.80	-	-	-
S112	DU-9		6037+50.		22	MH TYPE A, 5' DIA	TY 1F, CL	541.95	534.61	534.61	-	-	-	-
S113	DU-9		6039+55.		22	MH TYPE A, 5' DIA	TY 1F, CL	543.20	535.64	535.64	536.00	-	-	-
S114	DU-9	6041+00.		22	MH TYPE A, 5' DIA	TY 1F, CL	544.07	536.36	536.36	-	-	-	-	
S115	DU-9	6042+52.		42	PRC FES 30"	-	-	-	-	-	537.12	-	-	
S116	STRUCTURE NUMBER NOT USED													
S117	STRUCTURE NUMBER NOT USED													
S118	STRUCTURE NUMBER NOT USED													
S119	DU-8	RAMP C	2004+84.		52	PRC FES 24"	-	-	-	-	-	529.60	-	
S120	DU-8		2004+84.		5.89	MH TYPE A, 5' DIA	TY 1F, CL	535.38	-	-	-	531.54	530.10	-
S121	DU-3	2024+75.		24	CB TYPE A, 4' DIA	TY 20 F & G	548.90	-	-	-	-	-	530.85	
S122	STRUCTURE NUMBER NOT USED													
S123	STRUCTURE NUMBER NOT USED													
S124	DU-3	RAMP C	2024+75.		29.5	PRC FES 12"	-	-	-	-	-	530.60	-	
S125	DU-3		2022+50.		24	CB TYPE A, 4' DIA	TY 20 F & G	544.52	-	-	-	-	530.15	-
S126	DU-3		2022+50.		30.3	PRC FES 12"	-	-	-	-	-	-	529.90	-
S127	DU-3		2020+25.		24	CB TYPE A, 4' DIA	TY 20 F & G	540.13	-	-	-	-	-	529.40
S128	STRUCTURE NUMBER NOT USED													

DRAINAGE STRUCTURE INFORMATION TABLE

PIPE NO.	P CUL CL A 1 EQRS 54	P CUL CL A 1 EQRS 48	P CUL CL A 1 EQRS 42	P CUL CL A 1 EQRS 36	P CUL CL A 1 EQRS 30	P CUL CL A 1 EQRS 27	P CUL CL A 2 EQRS 18	P CUL CL A 2 15	P CUL CL A 1 18	P CUL CL A 2 18	P CUL CL A 2 24	P CUL CL A 6 24	P CUL CL A 1 36	P CUL CL A 2 48	P CUL CL A 6 48	STORM SEW CLA 1 12	STORM SEW CLA 2 12	STORM SEW CLA 4 12	STORM SEW CLA 1 24	STORM SEW CLA 2 24	STORM SEW CLA 1 30	STORM SEW CLA 1 36	STORM SEW CLA 2 36	SS 1 RCEP S53 R34	STORM SEW CLA 1 42	PIPE SLOPE (%)	COMMENT	
TOTAL	152	75	136	118	259	74	33	46	282	118	68	235	75	188	215	19	62	15	91	374	1307	950	66	350	179			
P1	41																									0.30		
P2	111																									0.30		
P2A																										0.30	* 22'-8" DOUBLE BOX CUL. 6'X3'	
P3		75																								0.30		
P4														72												0.14		
P5										68																0.88		
P6																										0.36	*174'-10" DOUBLE BOX CUL. 6'X3'	
P7									10																	1.50		
P8																										0.18	*227'-3" DOUBLE BOX CUL. 5'X3'	
P9																										0.16		
P10												235														0.44		
P11																										0.10	*247'-5" BOX CUL. 6'X3'	
P12																			87							0.12		
P13			67																							3.00		
P14						74																				0.42		
P15										49																2.00		
P16																										0.37	*162'-8" BOX CUL. 6'X3'	
P17																										0.42	*5' BOX CUL. 6'X3'	
P18						79																				0.52		
P19						90																				0.19		
P20						40																				0.40		
P21						78																				0.64		
P22														75												0.60		
P23																										3.61	TEMP. CULVERT PIPE	
P24																											NOT USED	
P25																											NOT USED	
P26																											NOT USED	
P27																											NOT USED	
P28																										1.45		
P29																										0.39		
P30																										0.50		
P31																											NOT USED	
P32																										1.50		
P33																											NOT USED	
P34																										2.00		
P35																										3.07	TEMP. CULVERT PIPE	
P36																										1.00		
P37																										0.54		
P38																										1.25	NOT USED	
P39																										1.25		
P40																										1.25		
P41																												
P42																										0.19		
P43																											NOT USED	
P44																										1.00	TEMP. CULVERT PIPE	
P45																										0.20		
P46																											NOT USED	
P47																										0.19		
P48																										0.19		
P49																										0.30	TEMP. CULVERT PIPE	
P50																										0.70		

NOTES:

- THIS WORK WILL BE PAID FOR AT THE UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERT OF THE SIZE INDICATED AND EACH FOR CAST IN PLACE CONCRETE END SECTIONS.

300 W. ADAMS ST. CHICAGO, IL 60606
SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 TEL: (312) 629-0240
 FAX: (312) 629-8449

FILE NAME = D162C31-SHT-DRAIN17.dgn	USER NAME = TK1uegel	DESIGNED - VP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 160	
PLOT SCALE = 1:500	CHECKED - CL	REVISOR -	SCALE: NONE			SHEET NO. 17 OF 22 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISOR -									
CONTRACT NO. 60C31											

DRAINAGE PIPE INFORMATION TABLE

PIPE NO.	P CUL CL A 1 EQRS 54	P CUL CL A 1 EQRS 48	P CUL CL A 1 EQRS 42	P CUL CL A 1 EQRS 36	P CUL CL A 1 EQRS 30	P CUL CL A 1 EQRS 27	P CUL CL A 2 EQRS 18	P CUL CL A 2 15	P CUL CL A 1 18	P CUL CL A 2 18	P CUL CL A 2 24	P CUL CL A 6 24	P CUL CL A 1 36	P CUL CL A 2 48	P CUL CL A 6 48	STORM SEW CL A 1 12	STORM SEW CL A 2 12	STORM SEW CL A 4 12	STORM SEW CL A 1 24	STORM SEW CL A 2 24	STORM SEW CL A 1 30	STORM SEW CL A 1 36	STORM SEW CL A 2 36	SS 1 RCEP 553 R34	STORM SEW CL A 1 42	PIPE SLOPE (%)	COMMENT		
	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)			
	542A5509	542A5503	542A5497	542A5491	542A5485	542A5482	542A8203	542A1060	542A0223	542A1063	542A1069	542A4009	542A0241	542A1093	542A4033	550A0050	550A0340	550A0940	550A0120	550A0410	550A0140	550A0160	550A0450	55034700	550A0180				
TOTAL	152	75	136	118	259	74	33	0	282	118	68	235	75	188	215	19	62	15	91	374	1307	950	66	350	179				
P51																											0.19		
P52																												0.19	
P53																												0.33	
P54																												0.54	
P55																												0.20	
P56																												2.00	
P57																												0.20	
P58																													NOT USED
P59																													NOT USED
P60																													NOT USED
P61																													NOT USED
P62																													NOT USED
P63																													NOT USED
P64																													NOT USED
P65																													NOT USED
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P86																													NOT USED
P87																													NOT USED
P88																													NOT USED
P89																													NOT USED

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FILE NAME = D:\6031-SHT-DRAIN18.dgn
 USER NAME = TKLuegel
 PLCT SCALE = 1:50
 PLCT DATE = 12/11/2009

DESIGNED - VP
 DRAWN - PTK
 CHECKED - CL
 DATE - 12/18/09

REVISED -
 REVISED -
 REVISED -
 REVISED -

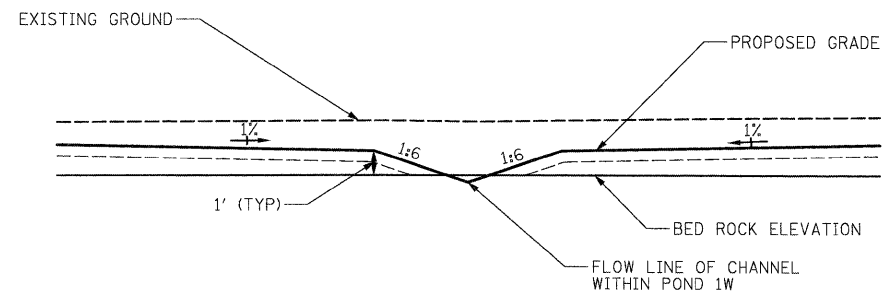
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE

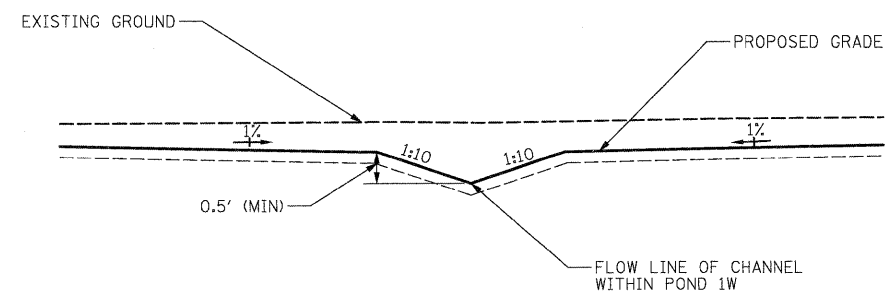
SCALE: NONE SHEET NO. 18 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	161
CONTRACT NO.			60C31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

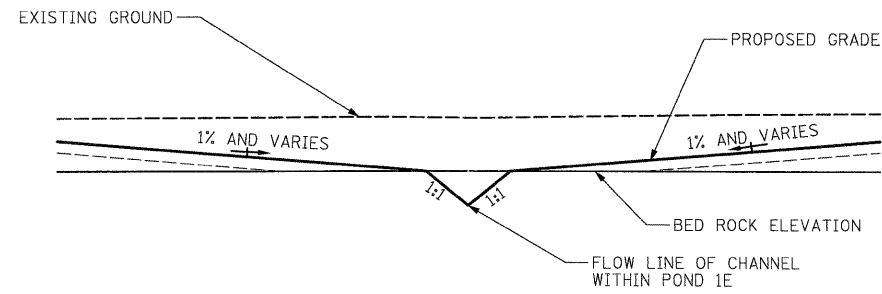
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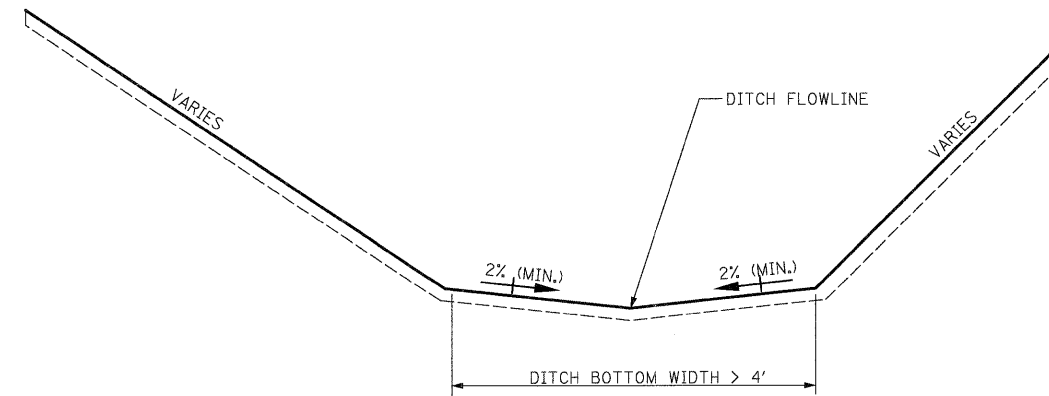
DETAIL A
CHANNEL THROUGH BED ROCK- POND 1W
 NOT TO SCALE



TYPICAL GRADING THROUGH DETENTION POND
(WHEN BED ROCK IS NOT PRESENCE)
 NOT TO SCALE



DETAIL B
CHANNEL THROUGH BED ROCK- POND 1E
 NOT TO SCALE



TYPICAL DITCH GRADING DETAIL FOR DITCHES WITH
DITCH BOTTOM WIDTH GREATER THAN 4'
 NOT TO SCALE

NOTE:

FOR DITCH SIDE SLOPES, FLOW LINE ELEVATION AND DITCH BOTTOM WIDTH INFORMATION, REFER TO PROPOSED CROSS SECTIONS.

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FILE NAME = DIG0C31-SHT-DRAIN19.dgn	USER NAME = TKluegel	DESIGNED - PKT	REVISED -
		DRAWN - PKT	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

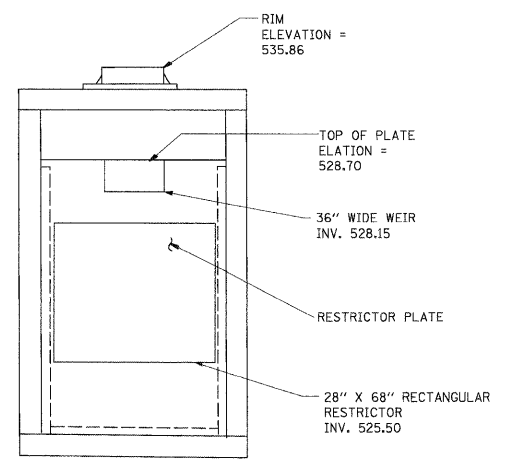
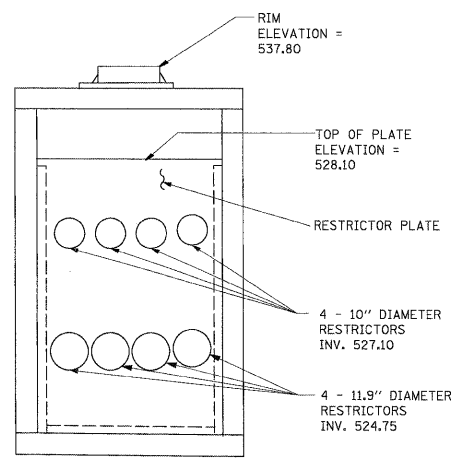
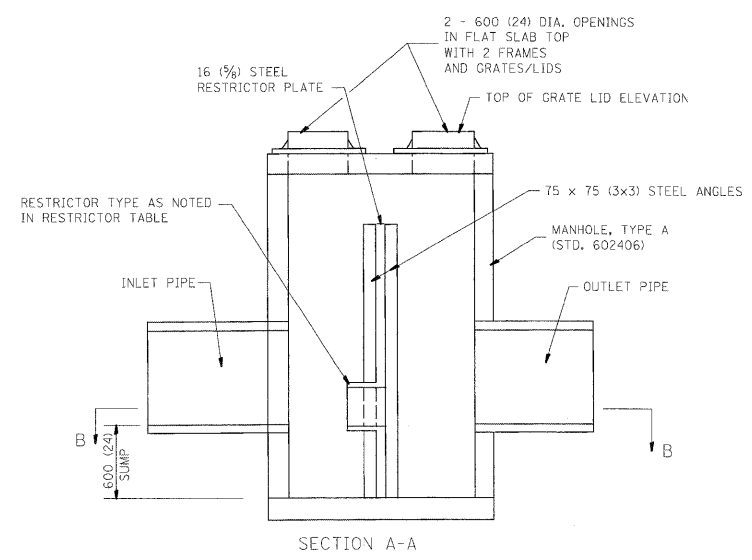
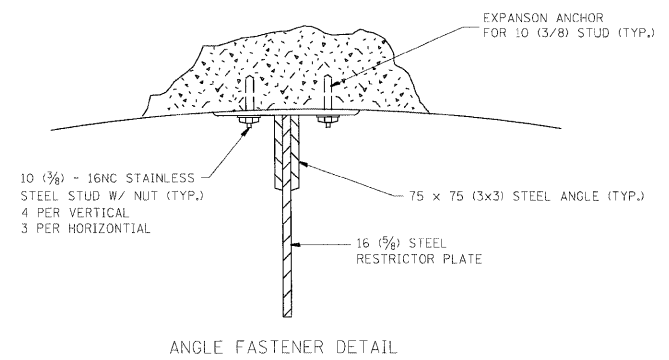
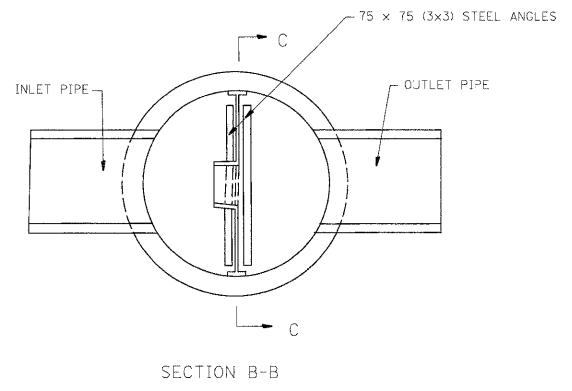
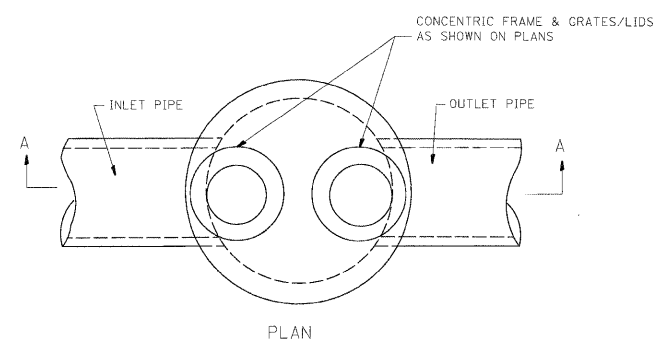
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

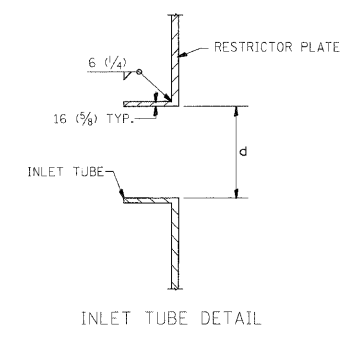
SCALE: NONE SHEET NO. 19 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	162
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	

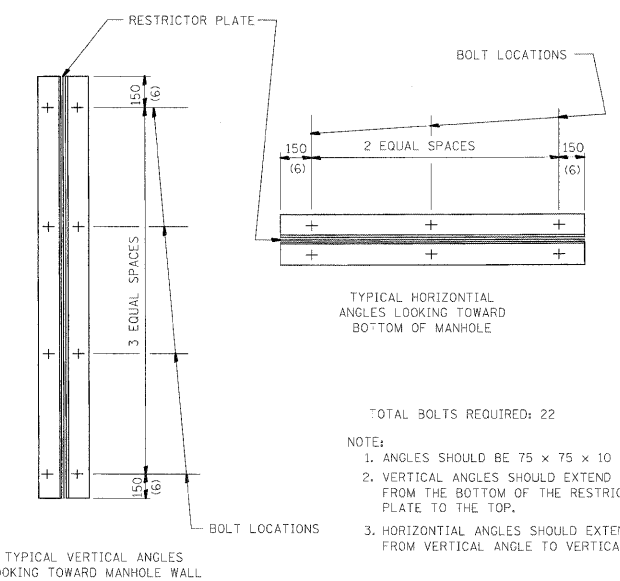
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 1.8m (6FT.) DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STRUCTURE NUMBER	STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE LOWER RESTRICTOR DIAMETER OR SIZE mm (in.) (d)	INVERT OF LOWER RESTRICTOR	INSIDE UPPER RESTRICTOR DIAMETER OR SIZE mm (in.) (d)	INVERT OF UPPER RESTRICTOR	ELEVATION OF TOP OF PLATE OVERFLOW
S26 POND 1E	3028+81	6'	2 TY 1F CL	5	28"x68" RECTANGLE	525.50	36" WIDE WEIR	528.15	528.70
S19 POND 1W	2027+14	6'	2 TY 1F CL	5	4-11.9" DIA.	524.75	4-10" DIA.	527.10	528.10



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 75 x 75 x 10 (3x3x3/8)
 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

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

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

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

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	08/28/00
M. GOMEZ	01/08/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

SCALE: NONE DRAWN BY
DATE **DATE** CHECKED BY
BD600-04 (BD-12)

SINGH
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FILE NAME = D:\60\CL31-SHT-DRAIN20.dgn	USER NAME = TKLuegel	DESIGNED - PKT	REVISED -
PLOT SCALE = 1:50	CHECKED - CL	DRAWN - PKT	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09		REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

RESTRICTOR MANHOLE DETAIL

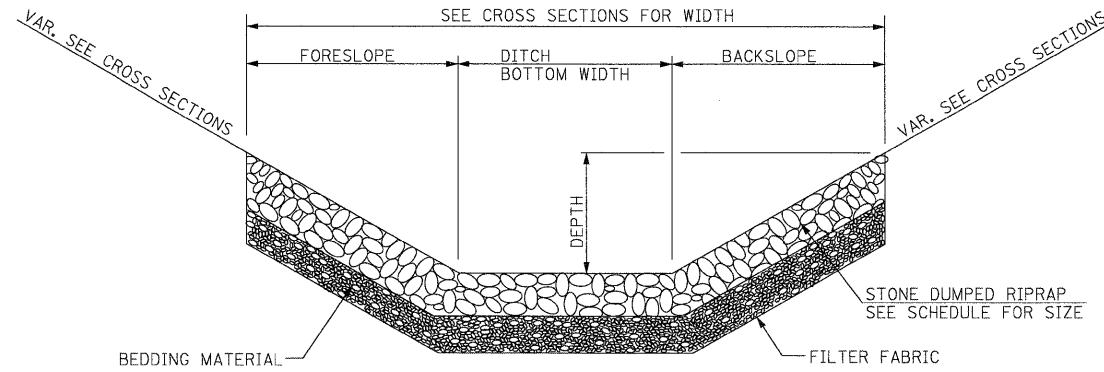
SCALE: NONE SHEET NO. 20 OF 22 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	163
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL

NOTES:

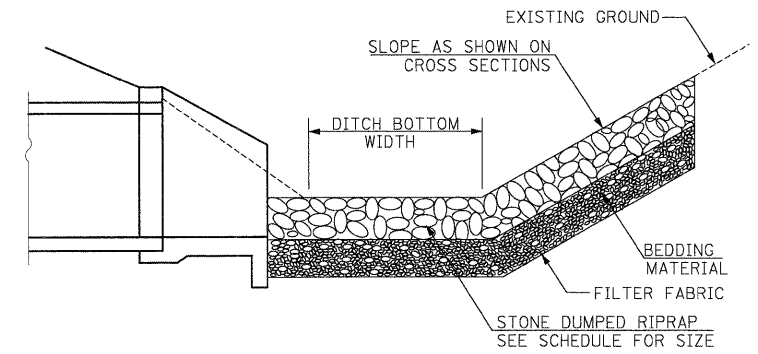
1. FOR RIPRAP LENGTH, WIDTH AND DEPTH SEE RIPRAP SCHEDULE SHEET DU-22.
2. THE RIPRAP MATERIAL SHALL CONFORM TO CLASS A OR CLASS B QUALITY.
3. FILTER FABRIC WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR FILTER FABRIC FOR USE WITH RIPRAP.
4. THE EXACT LENGTH, WIDTH AND DEPTH FOR RIPRAP PLACEMENT WILL BE DETERMINED BY THE ENGINEER.
5. NO RIPRAP SHALL BE PROVIDED WHERE PROPOSED CULVERT OUTLETS TO PAVED DITCH OR EXPOSED BEDROCK.



SECTION A-A

RIPRAP AT OUTLET ENDS OF CULVERTS

NOT TO SCALE



SECTION B-B

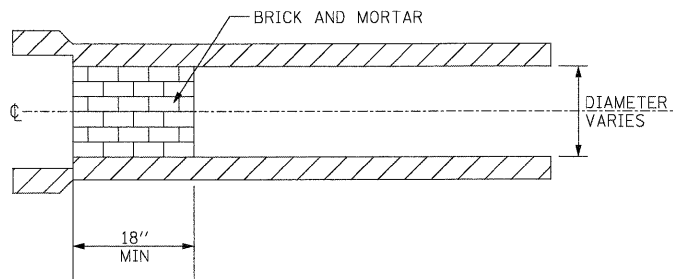
RIPRAP AT OUTLET ENDS OF CULVERTS PERPENDICULAR TO DITCH

NOT TO SCALE

DEPTH	SIDE WIDTH		
	1:2 SLOPE	1:3 SLOPE	1:4 SLOPE
6"	1.0'	1.5'	2.0'
12"	2.0'	3.0'	4.0'
18"	3.0'	4.5'	6.0'
24"	4.0'	6.0'	8.0'
36"	6.0'	9.0'	12.0'
48"	8.0'	12.0'	16.0'

* SIDE WIDTHS IN TRANSITIONAL AREAS, WILL VARY ACCORDING TO SIDE SLOPE.

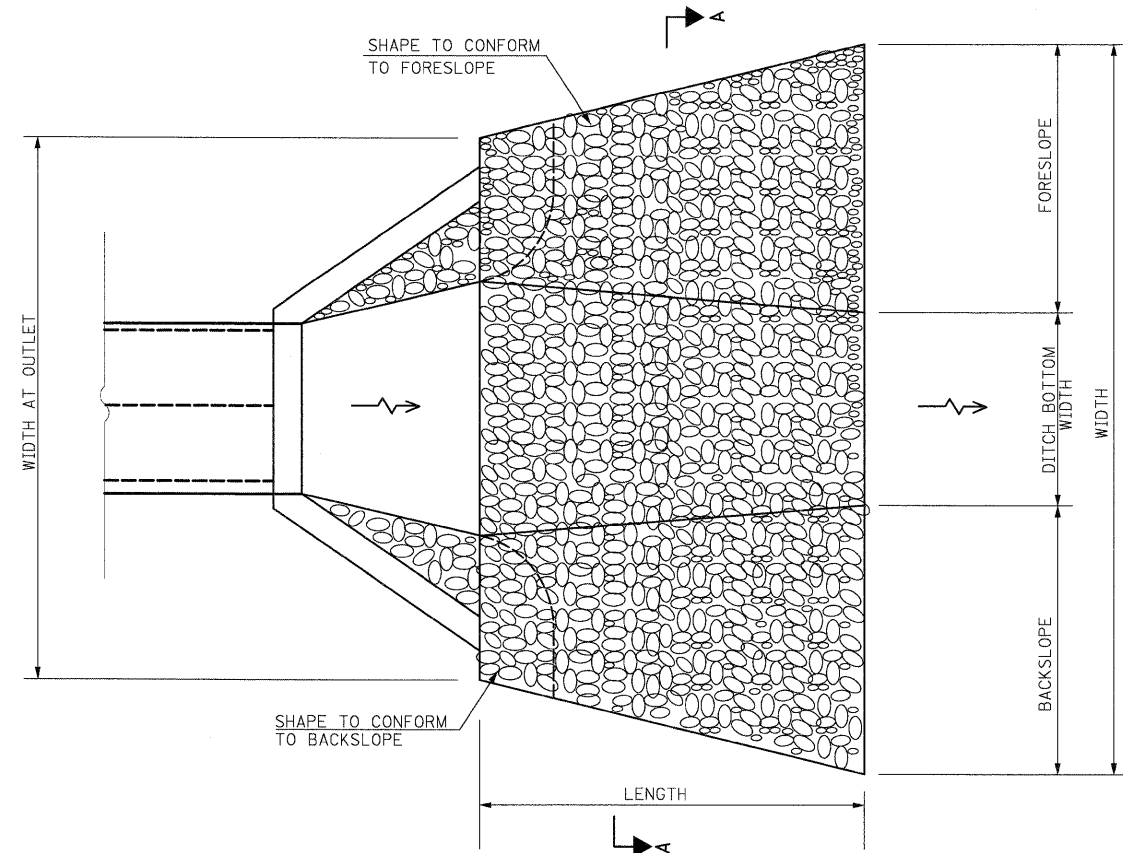
GRADATION	MIN. THICKNESS	BEDDING THICKNESS
RR3	12"	---
RR4	12"	6"



TEMPORARY STORM SEWER PLUGS

NOTES:

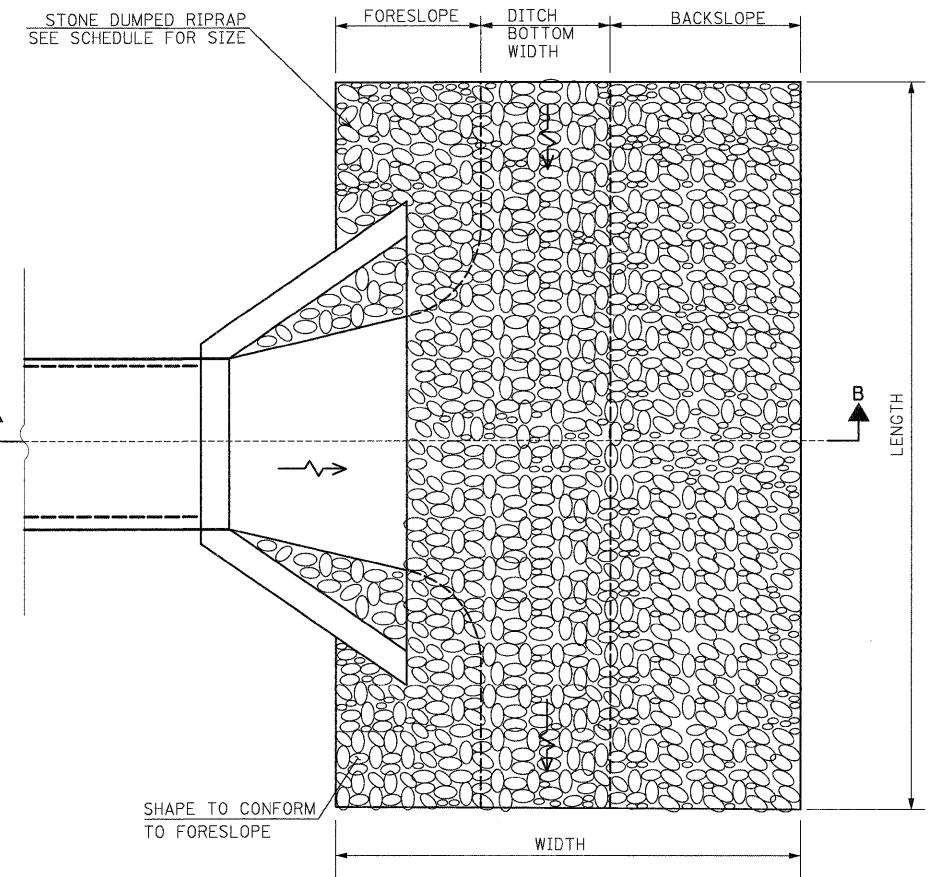
1. THIS WORK CONSISTS OF FURNISHING AND PLACING BRICKS AND MORTAR AS SHOWN OR DIRECTED BY THE ENGINEER AT LOCATIONS SHOWN ON THE PLANS TO TEMPORARILY PLUG THE EXISTING AND/OR PROPOSED STORM SEWER LATERAL STUBS. THIS PLUG WILL BE REMOVED BY OTHERS FOR FUTURE EXTENSION OF THE STORM SEWER, UNLESS OTHERWISE SHOWN ON PLANS.
2. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH "TEMPORARY STORM SEWER PLUGS".



PLAN

RIPRAP AT OUTLET ENDS OF CULVERTS

NOT TO SCALE



PLAN

RIPRAP AT OUTLET ENDS OF CULVERTS PERPENDICULAR TO DITCH

NOT TO SCALE

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 CHICAGO, IL 60606
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FILE NAME = D:\60C31-SHT-DRAIN21.dgn	USER NAME = TKLuegel	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIPRAP AND TEMPORARY STORM SEWER PLUG DETAILS	F.A.I. RTE. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 164		
PLOT SCALE = 1:50	CHECKED - CL	DRAWN - PKT	REVISED -			SCALE: NONE	SHEET NO. 21 OF 22 SHEETS	STA. TO STA.	CONTRACT NO. 60C31			
PLOT DATE = 12/11/2009	DATE - 12/18/09	CHECKED - CL	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
		DATE - 12/18/09	REVISED -									

FINAL

RIPRAP SCHEDULE

PAVED DITCH SCHEDULE

STRUCT. NUMBER	DRAWING NUMBER	ROAD NAME	STATION	OFFSET (FT)		TYPE OF STRUCTURE	LENGTH (FT)	WIDTH AT OUTLET (FT)	WIDTH (FT)	DEPTH (FT)	RIPRAP AREA (SQ YD)	RIPRAP GRADATION
				LEFT	RIGHT							
S1	DU-1	WEST FRONTAGE RD.	5001+39.	30		PRC FES EQRS 54" (68" X 43")	22.0	21.5	17.0	3.0	47.1	RR4
S3	DU-2		5004+20.	32		PRC FES EQRS 54" (68" X 43")	22.0	24.5	22.0	3.0	56.8	RR4
S3A	DU-2	EAST FRONTAGE RD.	8007+07.		35.4	CIP HEADWALL 6'X3'	22.0	22.5	27.0	3.0	60.5	RR4
S4A	DU-2		8007+47.		35.4	CIP HEADWALL 6'X3'	22.0	22.5	23.0	3.0	55.6	RR4
S5	DU-2	WEST FRONTAGE RD.	5006+33.	43		PRC FES EQRS 48" (60" X 38")	22.0	23.5	22.0	3.0	55.6	RR4
S9	DU-2	EAST FRONTAGE RD.	8016+99.		32	PRC FES 24"	14.0	41.0	41.0	1.0	63.8	RR3
S14	DU-3	RAMP D	4005+00.	32.7		CIP HEADWALL 2-6'X3'	15.0	36.0	36.0	3.5	60.0	RR4
S16	DU-2	EAST FRONTAGE RD.	8018+74.		39.8	CIP HEADWALL 2-5'X3'	30.0	36.5	36.5	2.5	121.7	RR4
S28	DU-4	RAMP B	3022+70.		48	PRC FES EQRS 42" (53" X 34")	15.0	8.0	14.0	3.0	22.5	RR4
S29	DU-5		3022+70.	35		PRC FES EQRS 42" (53" X 34")	15.0	12.0	17.0	3.0	28.3	RR4
S30	DU-4	RAMP E	104+51.	26		PRC FES EQRS 27" (34" X 22")	20.0	20.0	23.0	2.5	47.8	RR4
S32	DU-4	EAST FRONTAGE RD.	8030+43.6	27		PRC FES 18"	16.0	15.0	17.0	2.0	28.4	RR4
S34	DU-6	RAMP B	3007+00.		41	CIP HEADWALL 6'X3'	20.0	17.0	17.0	2.5	37.8	RR4
S38	DU-6		3005+70.		48	PRC FES EQRS 30" (38" X 24")	16.0	12.0	12.0	2.0	21.3	RR4
S42	DU-8	WEST FRONTAGE CONNECTOR	6024+60.	41		PRC FES EQRS 36" (45" X 29")	16.0	21.9	21.4	2.9	38.5	RR4
S44	DU-8		6034+15.	39		PRC FES EQRS 36" (45" X 29")	16.0	19.5	19.0	2.5	34.2	RR4
S46	DU-9		6037+39.	39		PRC FES 36"	16.0	19.0	19.0	2.5	33.8	RR4
S52	NOT USED											
S54	NOT USED											
S56	NOT USED											
S58	DU-10	WEST FRONTAGE CONNECTOR	6055+14.	40		PRC FES 18"	12.0	11.0	11.0	1.5	14.7	RR3
S60	DU-10		6063+40.	35		PRC FES 18"	12.0	11.0	13.0	1.5	16.0	RR3
S62	DU-11		6068+50.	38		PRC FES 18"	12.0	11.0	13.0	1.5	16.0	RR3
S64	NOT USED											
S66	NOT USED											
S76	DU-8	RAMP C	6029+56.	33		PRC FES 24"	14.0	16.0	16.0	2.0	24.9	RR3

SHEET NO.	ROAD NAME	STA.		OFFSET (FT)	LENGTH (FT)	TYPE OF DITCH
		FROM	TO			
DU-7	ARSENAL RD.	900+00	904+50	75 RT	450	PAVED DITCH, TYPE A-15
DU-8	ARSENAL RD.	905+40	907+85	75 RT	245	PAVED DITCH, TYPE A-15
DU-2	W. FRONTAGE RD.	5010+00	5013+00	50 RT	300	PAVED DITCH, TYPE A-22
DU-4, DU-6 THRU DU-8	E. FRONTAGE RD.	8022+90	8057+25	62 RT	3,435	PAVED DITCH, TYPE A-22
DU-5, DU-8	W. FRONTAGE CONNECTOR	6015+00	6023+50	45 LT	850	PAVED DITCH, TYPE A-22
DU-5, DU-8	W. FRONTAGE CONNECTOR	6015+00	6024+50	34 RT	950	PAVED DITCH, TYPE A-22
DU-9, DU-10	W. FRONTAGE CONNECTOR	6038+00	6054+50.	42 LT	1,650	PAVED DITCH, TYPE A-22
DU-9	W. FRONTAGE CONNECTOR	6042+50	6047+50.	37 RT	500	PAVED DITCH, TYPE A-22
DU-9	W. FRONTAGE CONNECTOR	6047+00	6049+50.	37 RT	250	PAVED DITCH, TYPE A-45

NOTES:

- RIPRAP SHALL NOT BE PROVIDED WHEN THE SEWER OR CULVERT PIPE OUTLETS ARE IN BEDROCK. EXACT LOCATIONS FOR THE RIPRAP SHALL BE FIELD DETERMINED BASED ON BEDROCK LOCATION.
- PAVED DITCH SHALL NOT BE PROVIDED AT THE EXPOSED BEDROCK LOCATIONS. EXACT LOCATIONS FOR THE PAVED DITCHES SHALL BE FIELD DETERMINED BASED ON BEDROCK LOCATION.

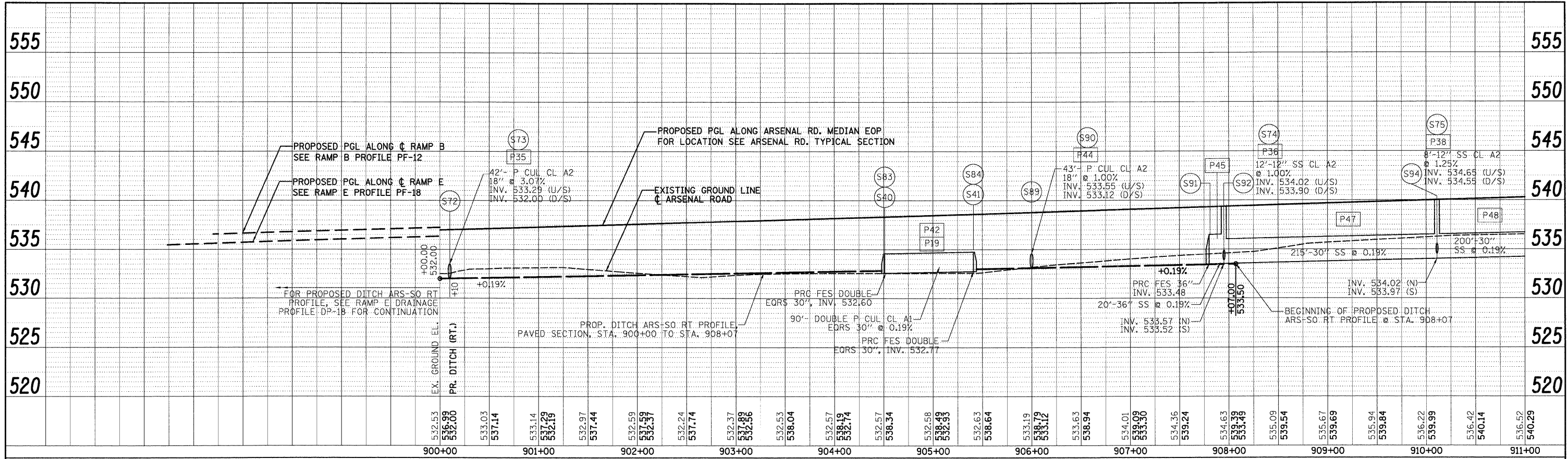
300 W. ADAMS ST.
 CHICAGO, IL 60606
 SINGH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
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FILE NAME = D:\60C31-SHT-DRAIN22.dgn	USER NAME = TKluegel	DESIGNED - PKT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIPRAP AND PAVED DITCH SCHEDULE	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - PKT	REVISED -			55	(99-1&2)AC-3	WILL	524	165	
		CHECKED - CL	REVISED -			CONTRACT NO. 60C31					
		DATE - 12/18/09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
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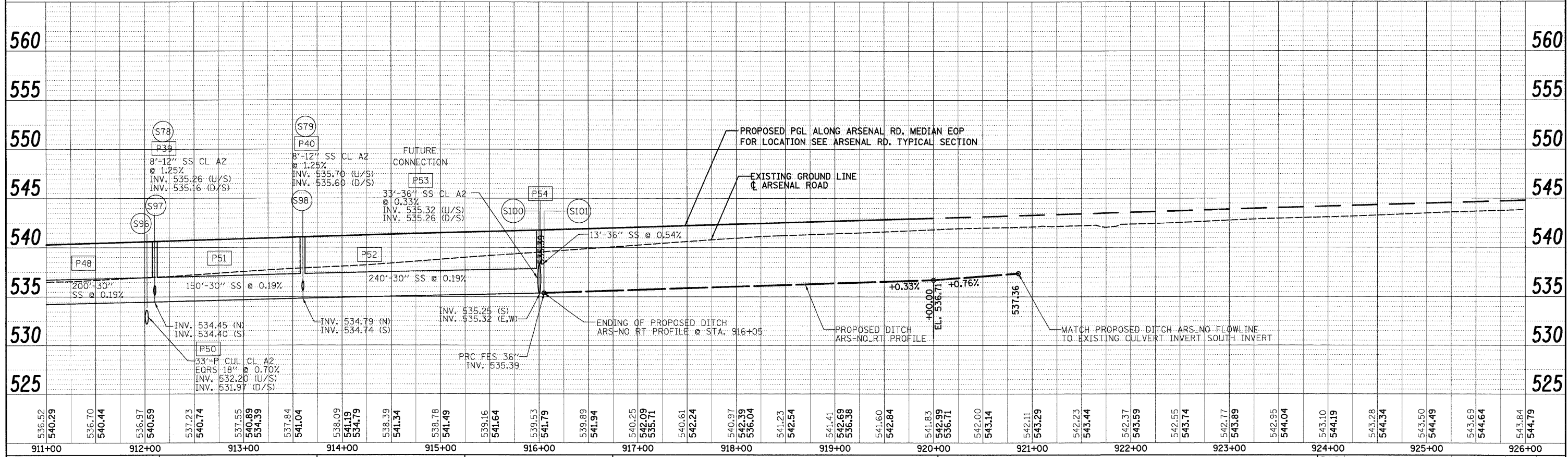
DATE: _____ BY: _____
 CHECKED: _____
 PLAN NO. _____

DATE: _____ BY: _____
 CHECKED: _____
 PROFILE NO. _____

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900+00	901+00	902+00	903+00	904+00	905+00	906+00	907+00	908+00	909+00	910+00	911+00			
532.53	533.03	533.14	533.29	532.24	532.57	532.57	533.19	533.63	534.01	534.63	535.09	535.67	536.42	536.52



911+00	912+00	913+00	914+00	915+00	916+00	917+00	918+00	919+00	920+00	921+00	922+00	923+00	924+00	925+00	926+00									
536.62	536.70	536.97	537.23	537.84	538.09	539.16	540.25	540.61	541.23	541.41	542.00	542.23	542.55	542.95	543.10	543.28	543.50	543.69	543.84	544.19	544.34	544.49	544.64	544.79

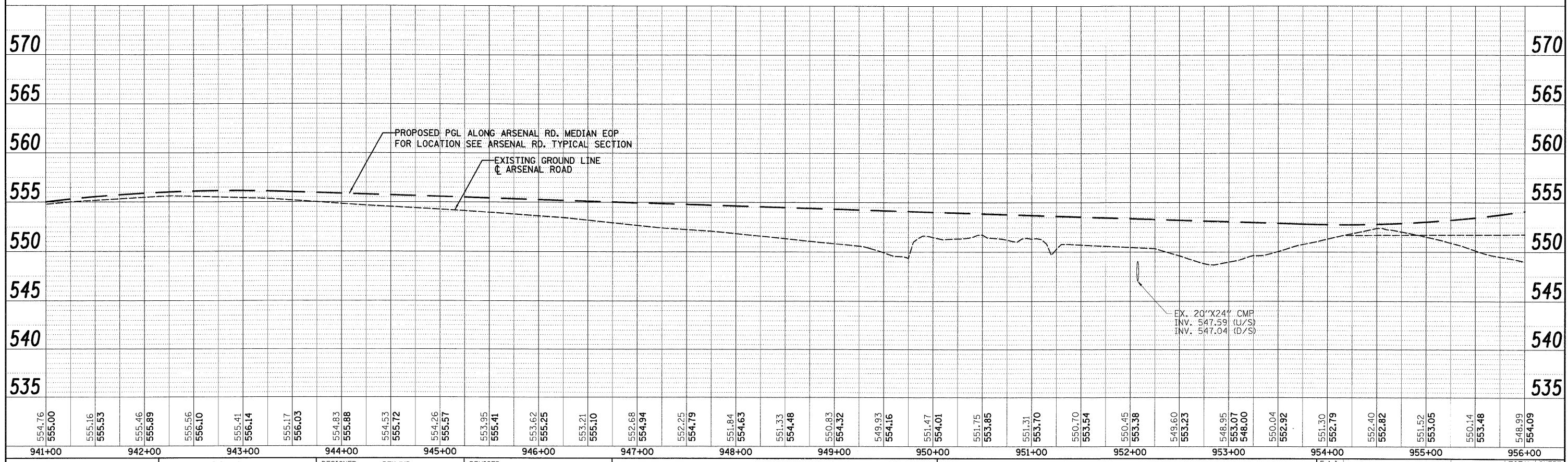
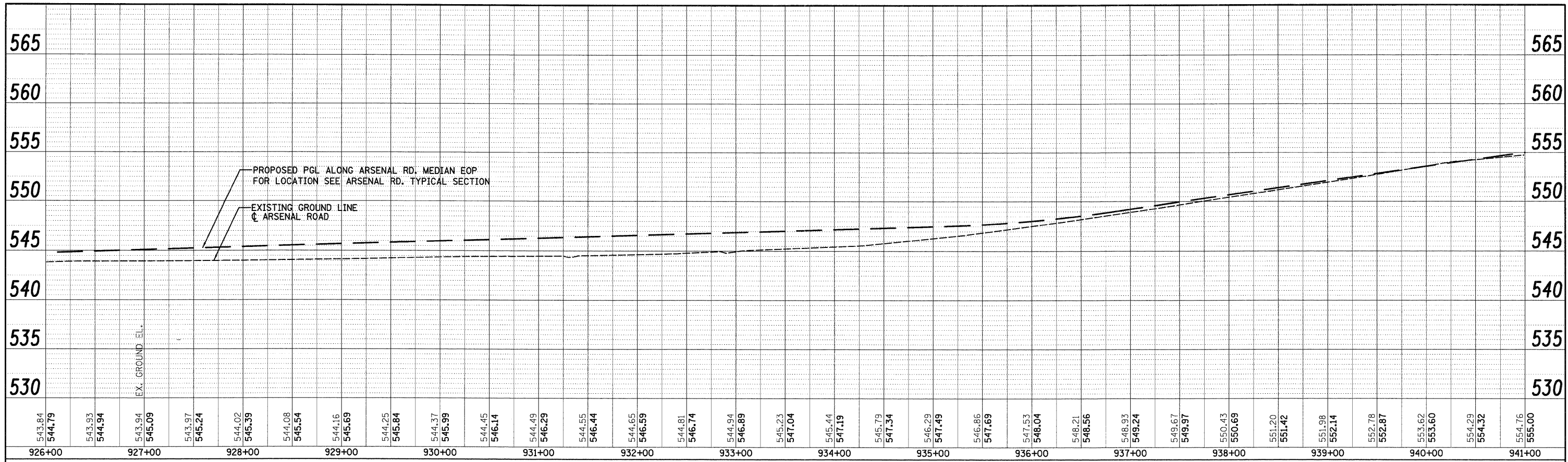
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PLOT SCALE: 1:50	DATE: 12/18/09	CHECKED: CL	REVISIONS:	SCALE: H=50' V=5'			SHEET NO. 1 OF 18 SHEETS			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

FINAL

PLAN	REVISIONS	BY	DATE
NO.	NO.		
NOTE BOOK	ALIGNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	

PROFILE	REVISIONS	BY	DATE
NO.	NO.		
NOTE BOOK	GRADES	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	
	PLANNED	CHECKED	

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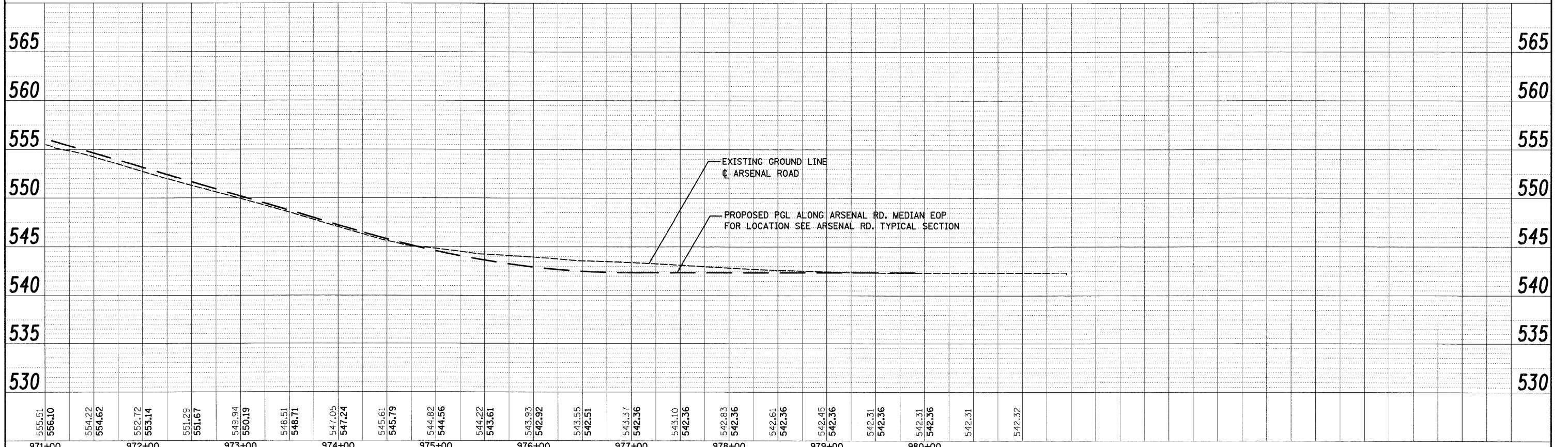
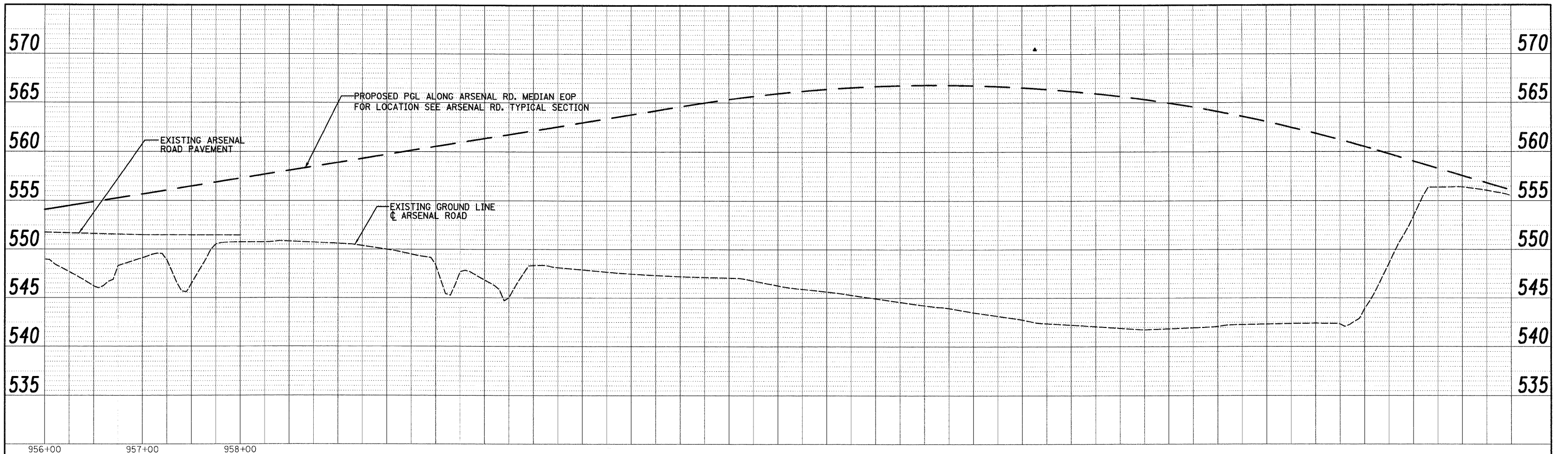
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PLOT SCALE = 1:500	CHECKED - CL	REVISED -	CONTRACT NO. 60C31						
PLOT DATE = 12/11/2009	DATE = 12/18/09	REVISED	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

FINAL

PLAN	REVISIONS	BY	DATE
NOTE BOOK	NO.		
ALIGNMENT CHECKED			
ADD. FILE NAME			

PROFILE	REVISIONS	BY	DATE
GRADES CHECKED			
PLAN, NOTES			
PRODUCTION NOTATIONS CHRD			
NO.			

300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC.
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CONSULTING ENGINEERS



FILE NAME =	USER NAME = TKluegel	DESIGNED -	PTK/VP	REVISED -	
D16@C31-SHT-DRAINPROFILE23.dgn		DRAWN -	PTK/VP	REVISED -	
	PLOT SCALE = 1:50	CHECKED -	CL	REVISED -	
	PLOT DATE = 12/11/2009	DATE -	12/18/09	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

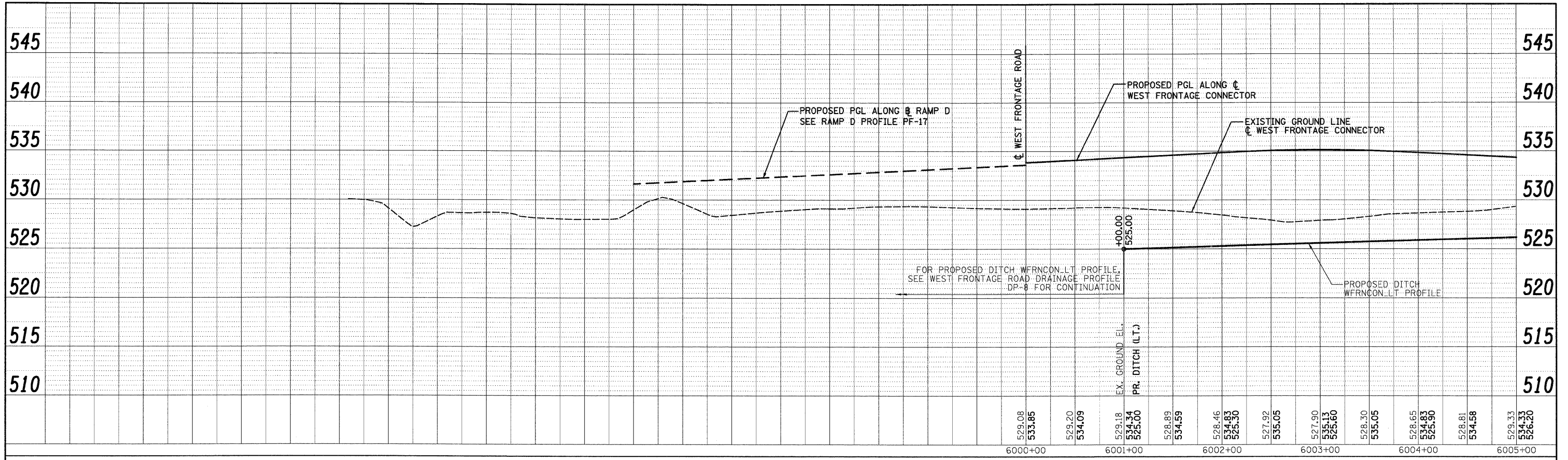
ARSENAL ROAD DRAINAGE PROFILE

SCALED 1"=50'H; 1"=5'V SHEET NO. 3 OF 18 SHEETS STA. TO STA.

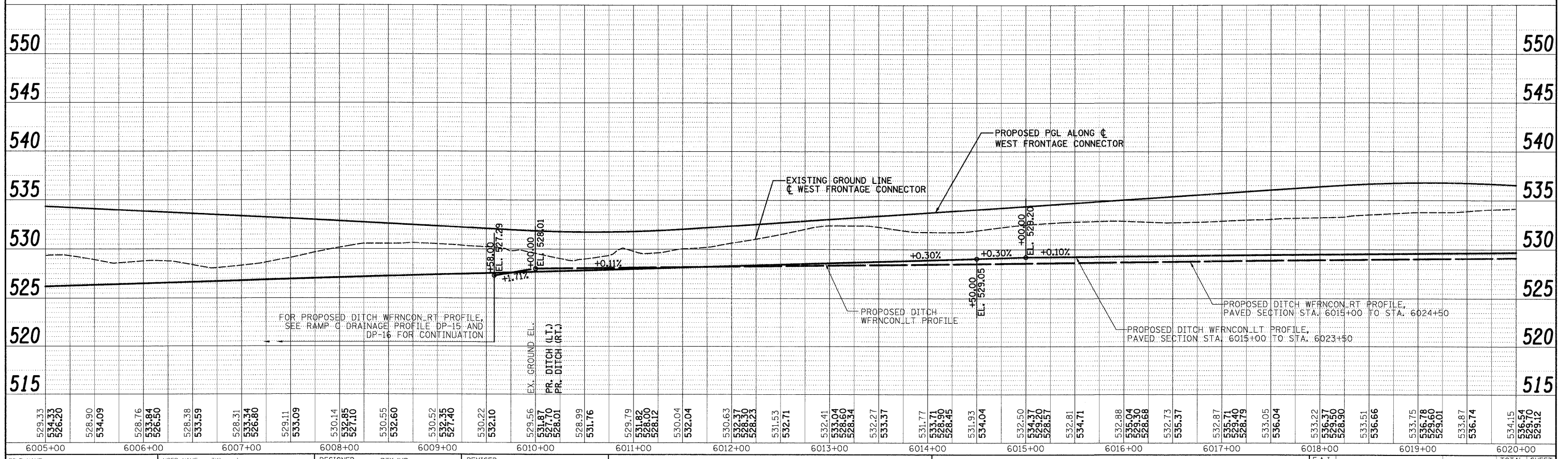
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	168
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

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	ALIGNMENT CHECKED		
	PROPOSED GRADES CHECKED		
	RAID FILE NAME		



PROFILE	REVIEWED	BY	DATE
NO.	PLOTTED		
	GRADES CHECKED		
	RAID FILE NAME		



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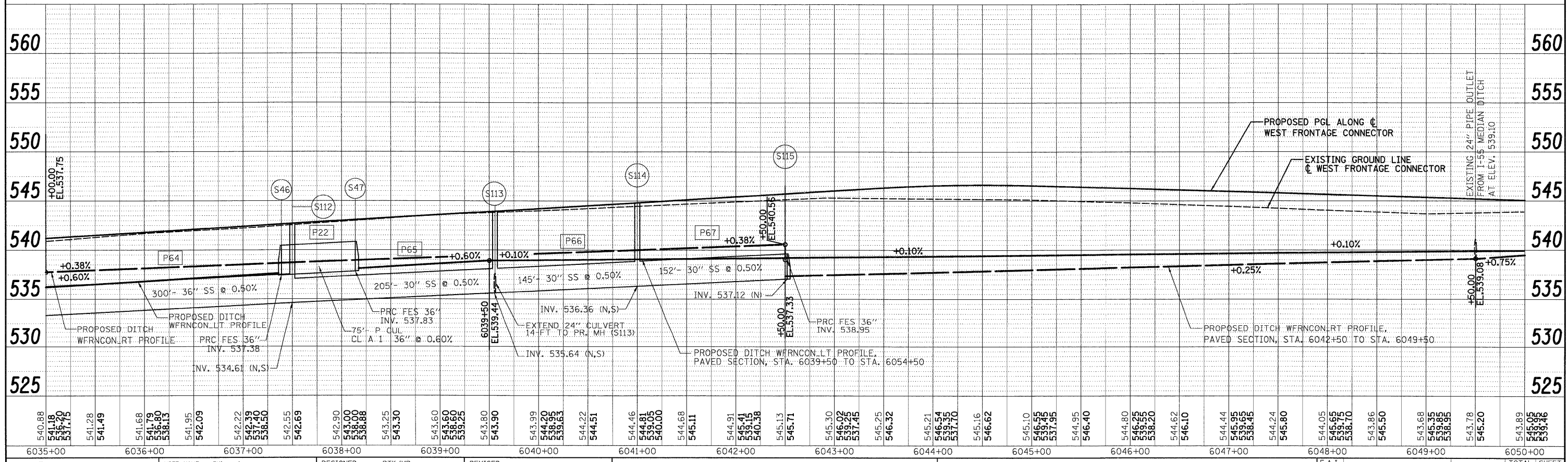
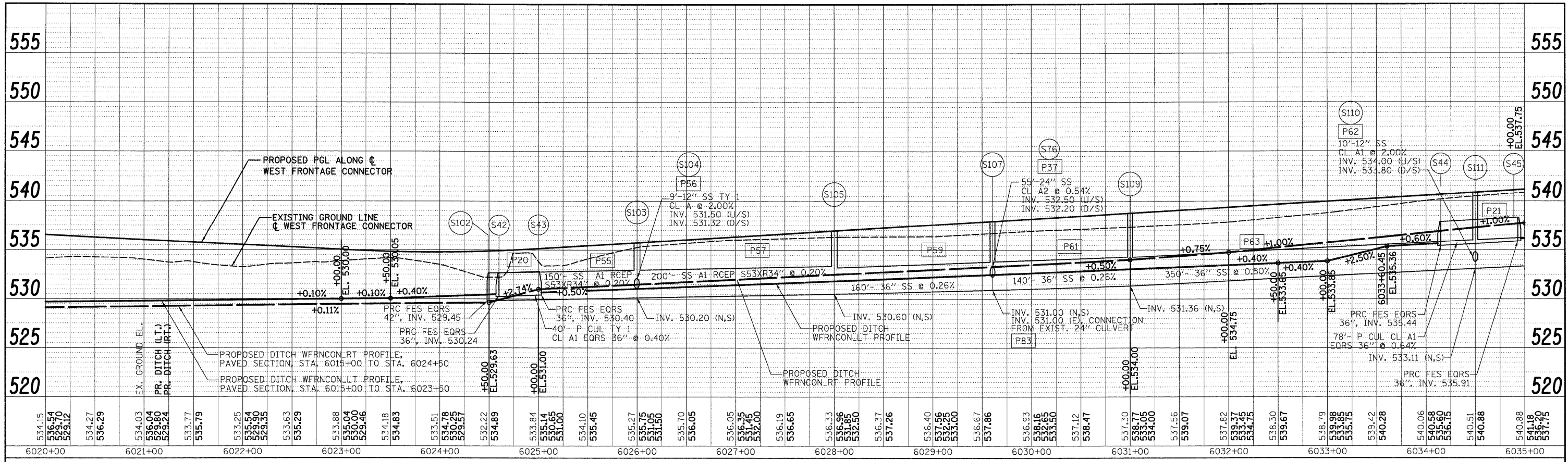
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PLOT SCALE = 1:50	CHECKED - CL	DESIGNED - PTK/VP	REVISED -			SCALE 1"=50'H/1"=5'V SHEET NO. 4 OF 18 SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 60C31			
PLOT DATE = 12/11/2009	CHECKED -	CHECKED - CL	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
DATE = 12/18/09	REVISED -	DATE = 12/18/09	REVISED -								

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PLAN	REVISIONS	DATE
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PROFILE	REVISIONS	DATE
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FILE NAME = D:\160C31-SHT-DRAIN\PROF\ILE05.dgn
USER NAME = TK\uegal
PLOT SCALE = 1:50
PLOT DATE = 12/11/2009

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DRAWN -	PTK/VP	REVISED -	
CHECKED -	CL	REVISED -	
DATE -	12/18/09	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WEST FRONTAGE CONNECTOR DRAINAGE PROFILE

SCALE 1"=50' H 1"=5' V SHEET NO. 5 OF 18 SHEETS STA. TO STA.

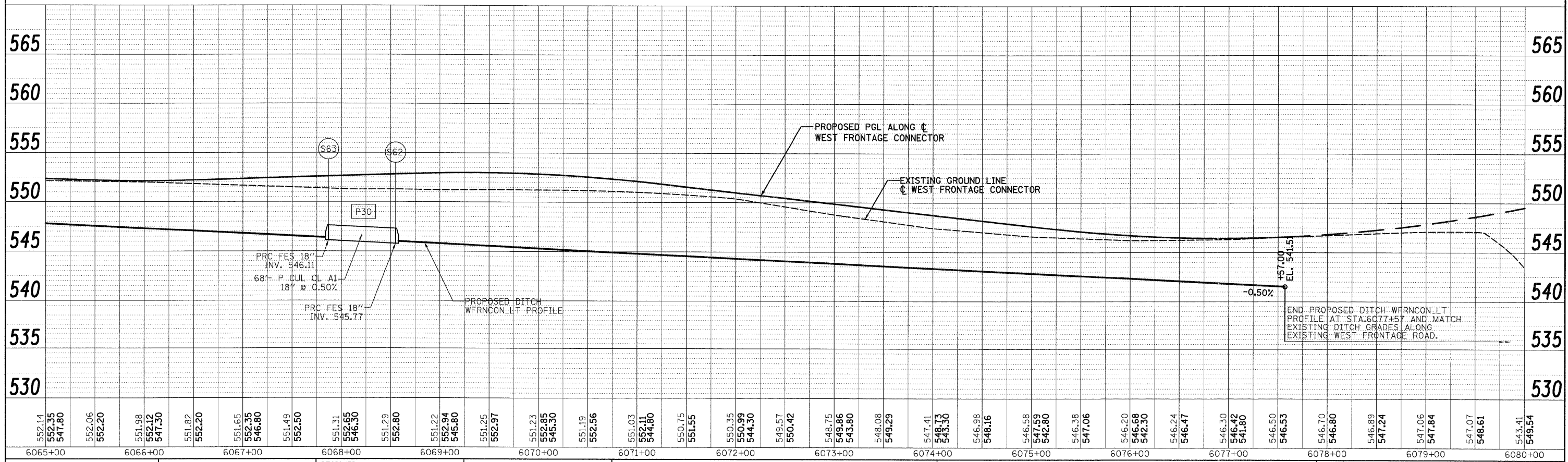
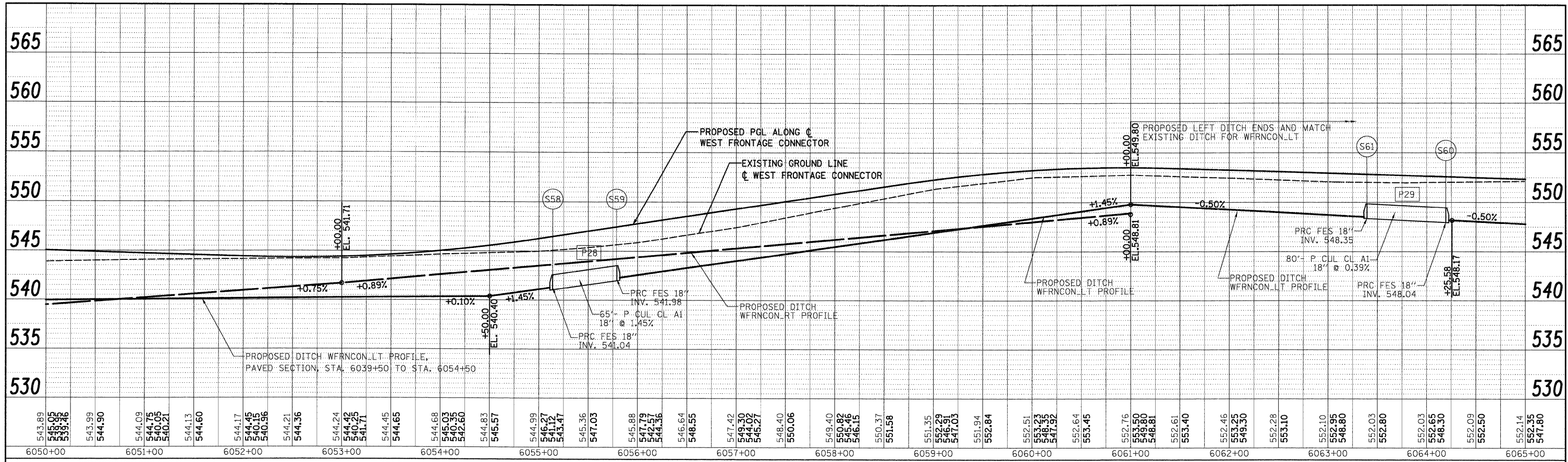
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-18.2)AC-3	WILL	524	170
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

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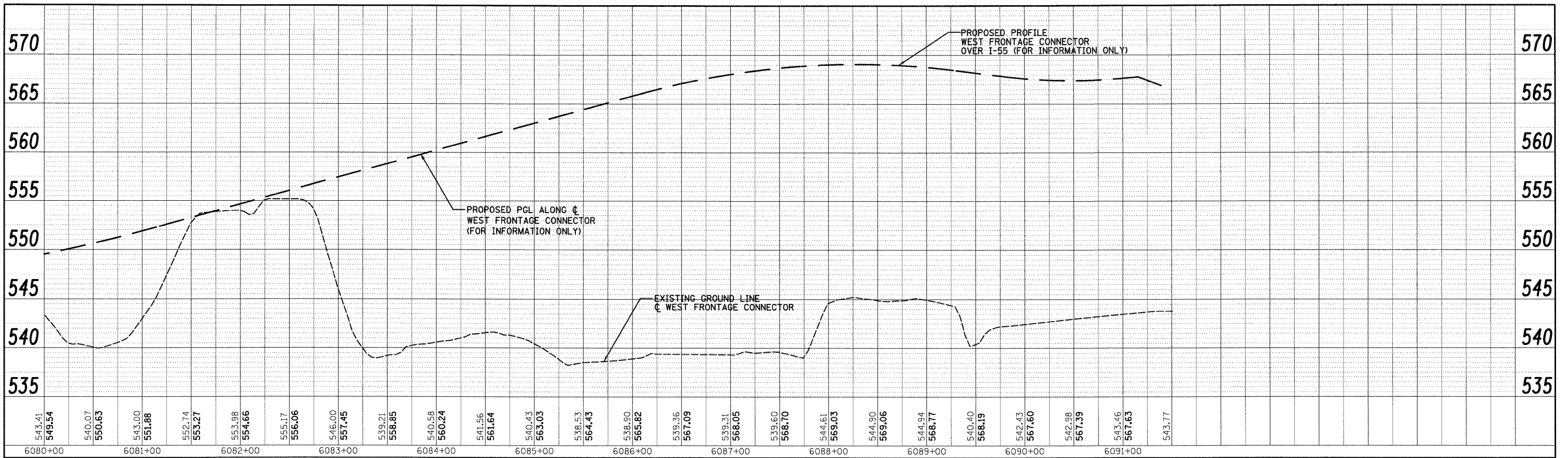
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PLOT SCALE = 1:50	CHECKED - CL	DATE = 12/18/09	REVISED -		SCALE: 1"=50'H/1"=5'V	SHEET NO. 6 OF 18 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		
PLOT DATE = 12/11/2009	DATE = 12/18/09	REVISED -	REVISED -		FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT		

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PLAN	REVISIONS	BY	DATE
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PROFILE	REVISIONS	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

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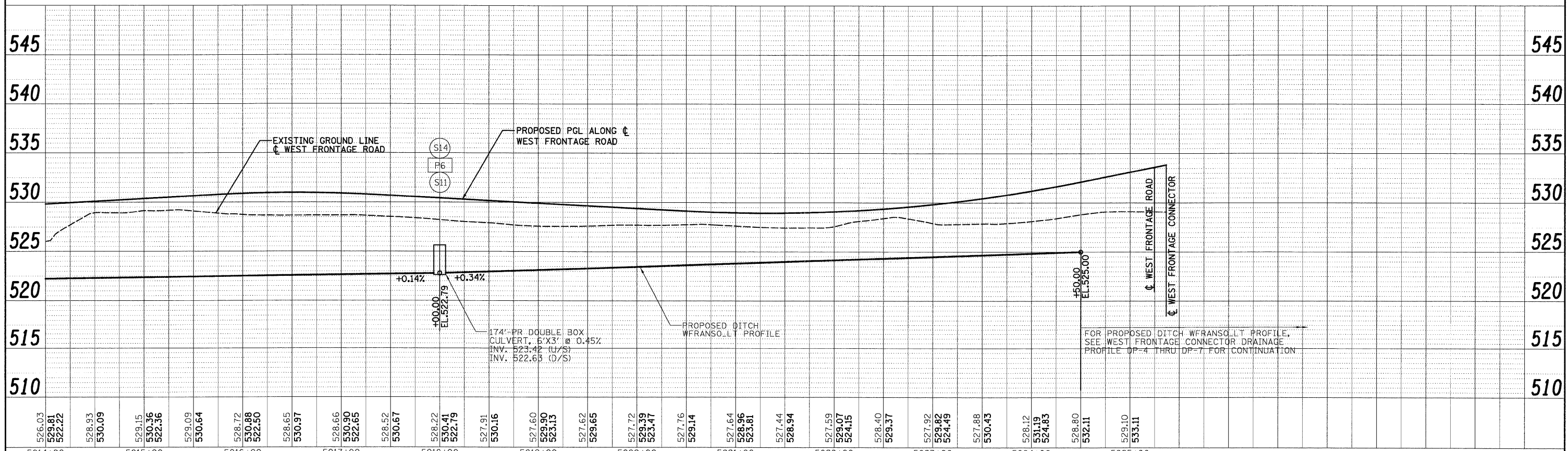
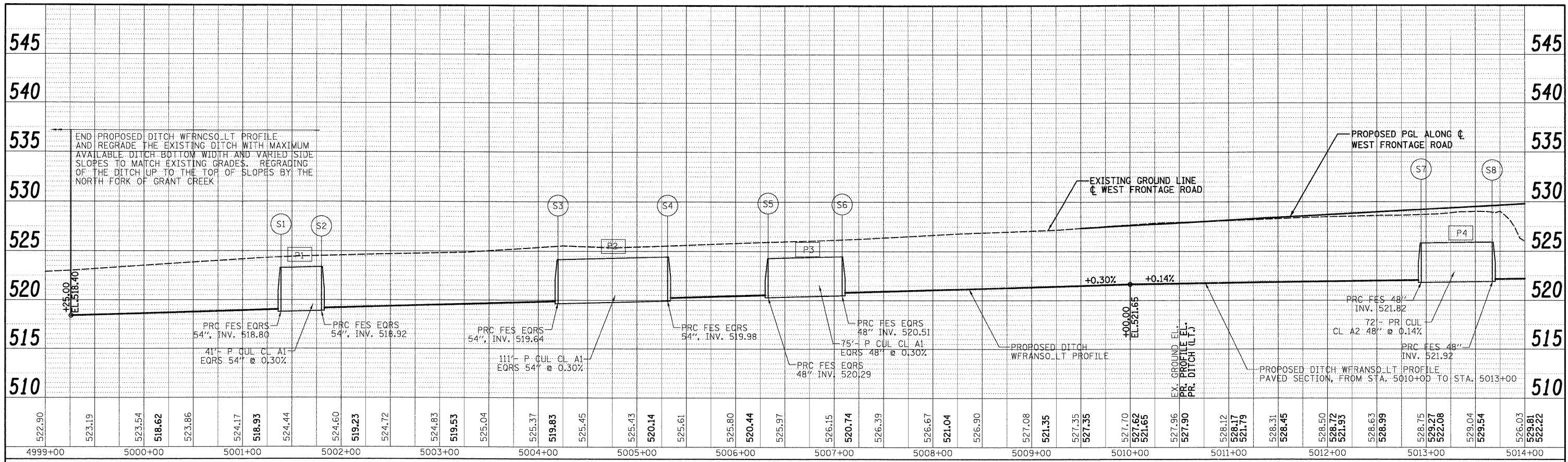
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PLOT SCALE = 1:50	CHECKED - CL	REVISED -	CONTRACT NO. 60C31							
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
						SCALE: 1"=50'H; 1"=5'V SHEET NO. 7 OF 18 SHEETS STA. TO STA.				

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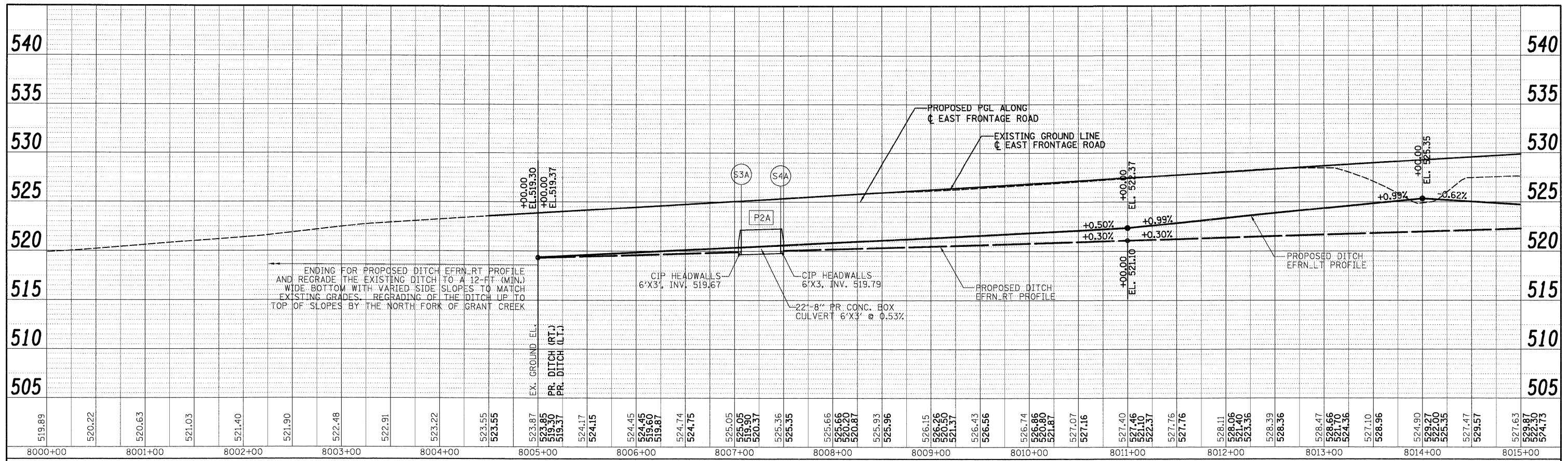
300 W. ADAMS ST.
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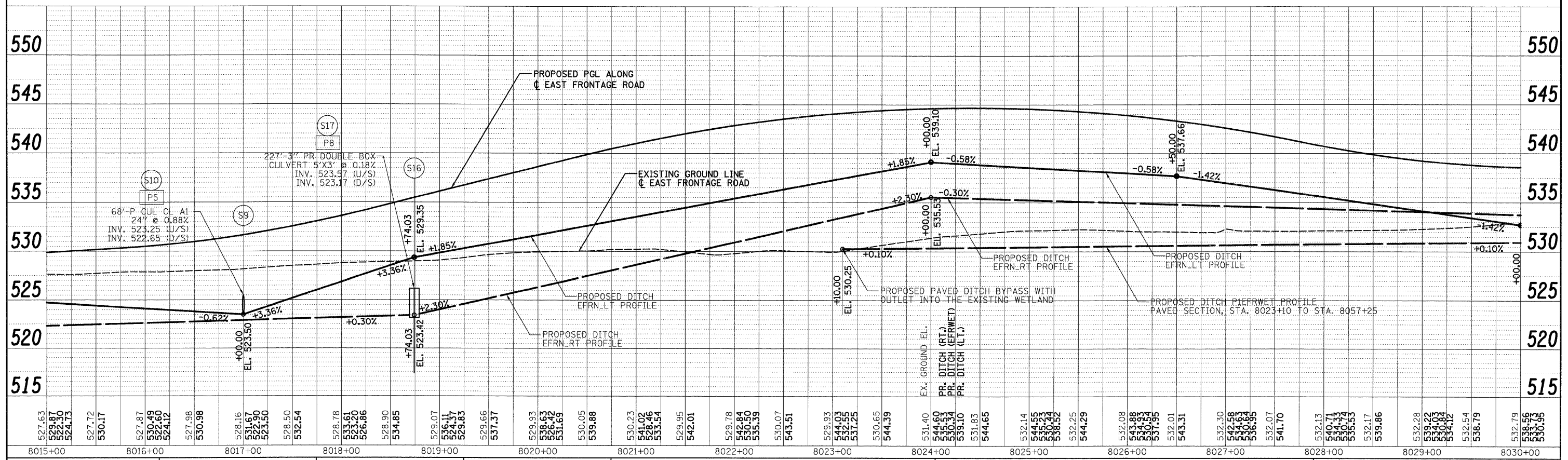
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PLOT SCALE = 1:50	CHECKED - CL	DATE 12/18/09	REVISED -		CONTRACT NO. 60C31		ILLINOIS FED. AID PROJECT		
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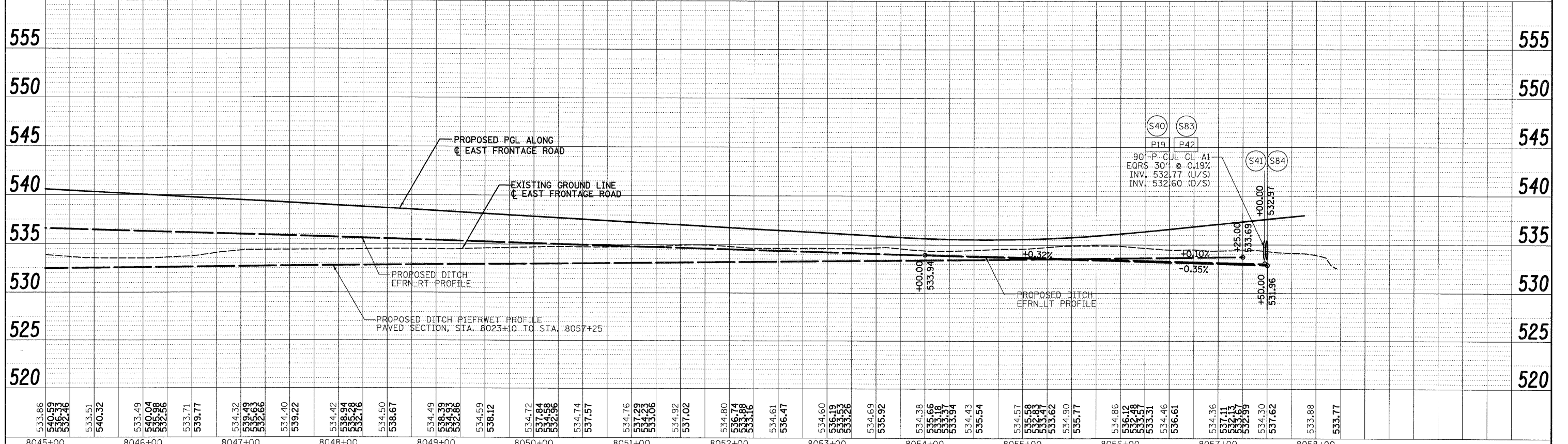
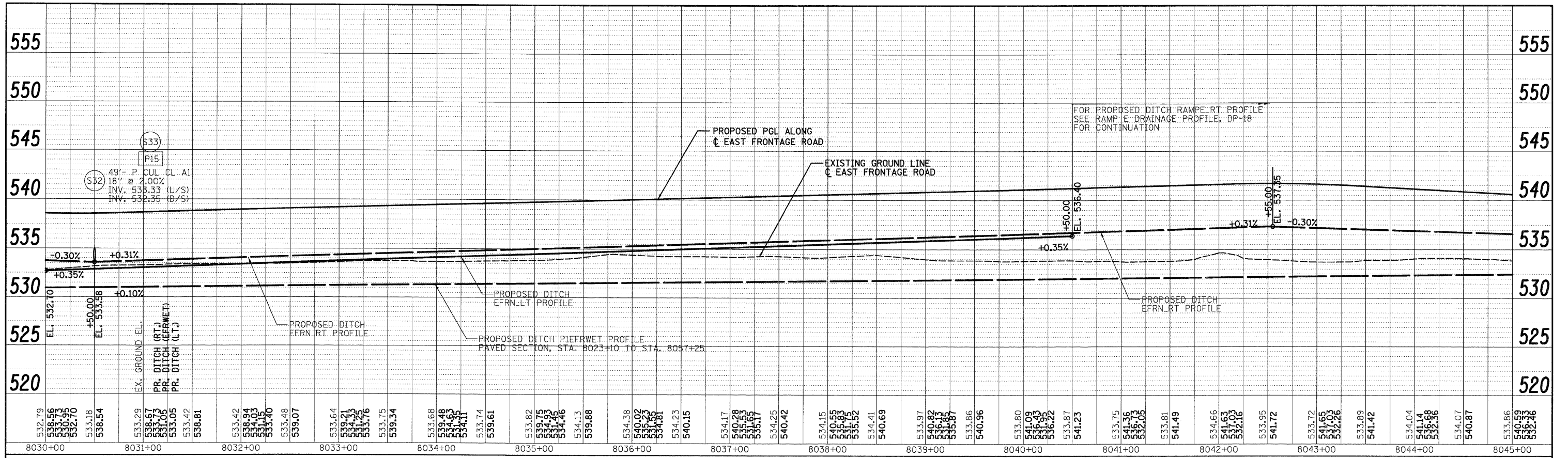
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	PLOT SCALE = 1:50	DRAWN - PTK/VP	REVISED -			SCALE: 1"=50'H 1"=5'V SHEET NO. 9 OF 18 SHEETS STA. TO STA.		CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
	PLOT DATE = 12/11/2009	CHECKED - CL	REVISED -								
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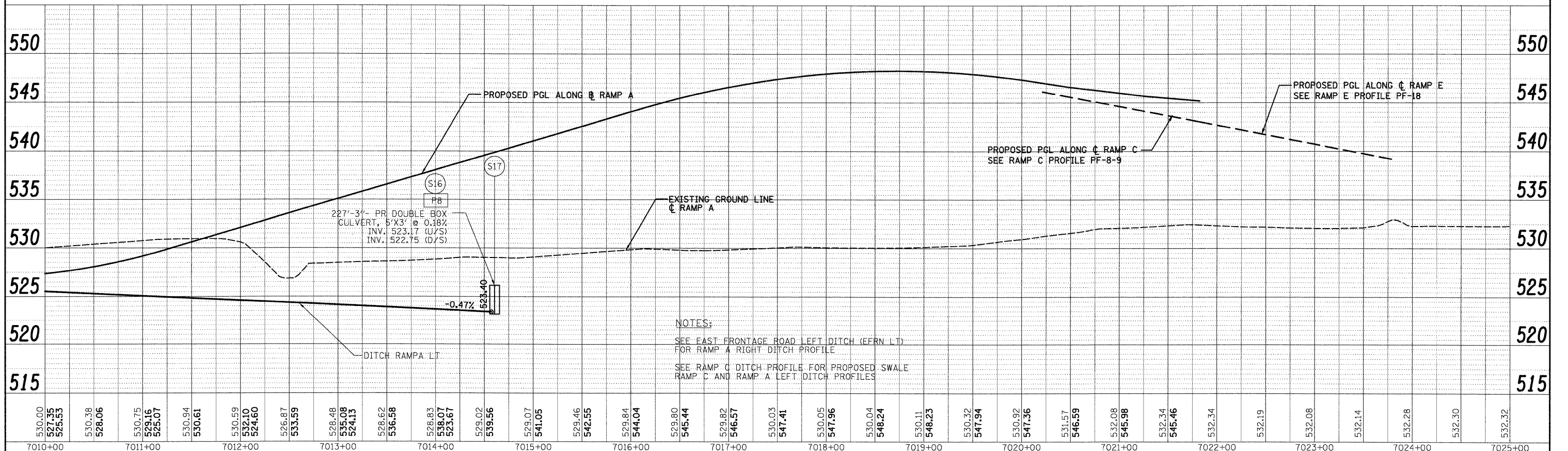
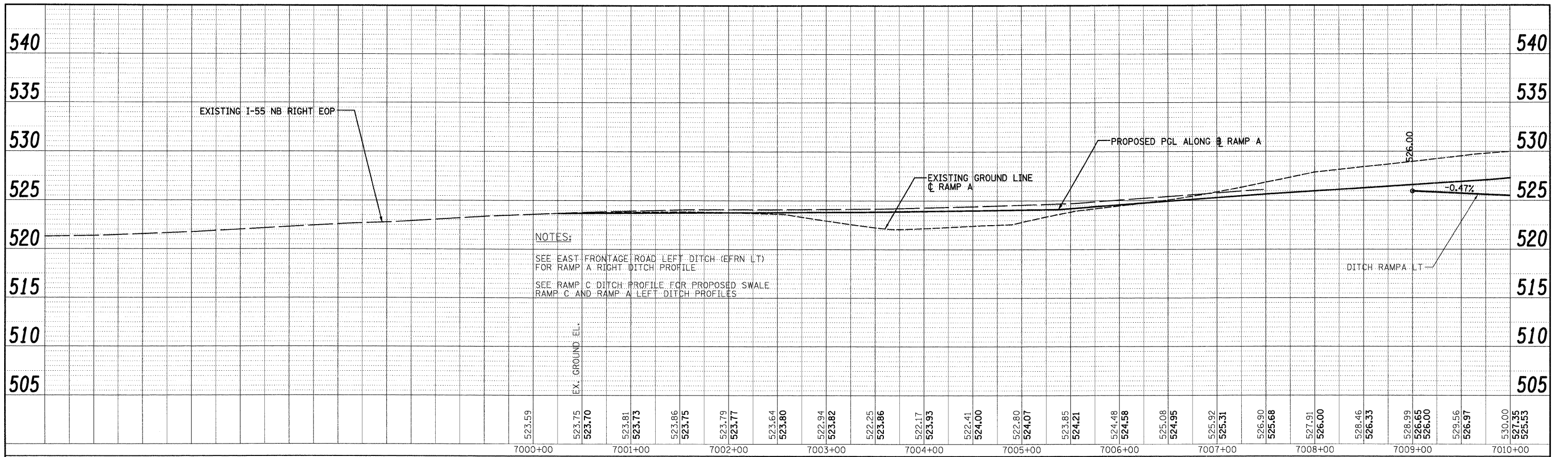
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PLOT SCALE = 1:50	CHECKED - CL	REVISED -	REVISED -			CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE: 1"=50'H; 1"=5'V SHEET NO. 10 OF 18 SHEETS STA. TO STA.				

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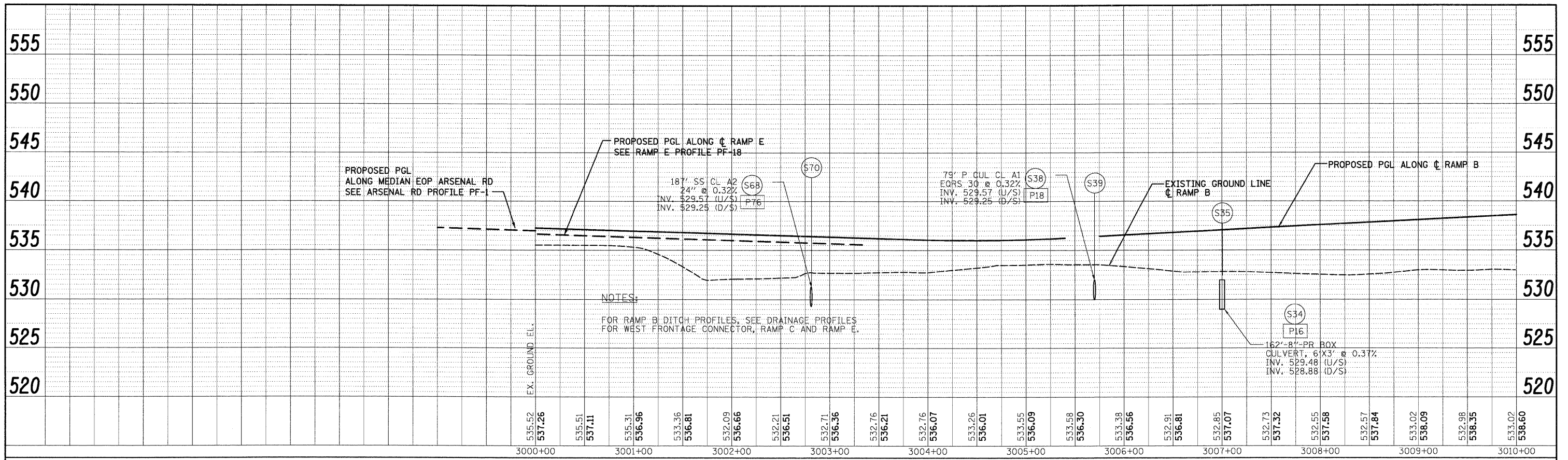


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS			SHEET NO.																			
55	(99-1&2)AC-3	WILL	524			176																			
						CONTRACT NO. 60C31																			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT																									
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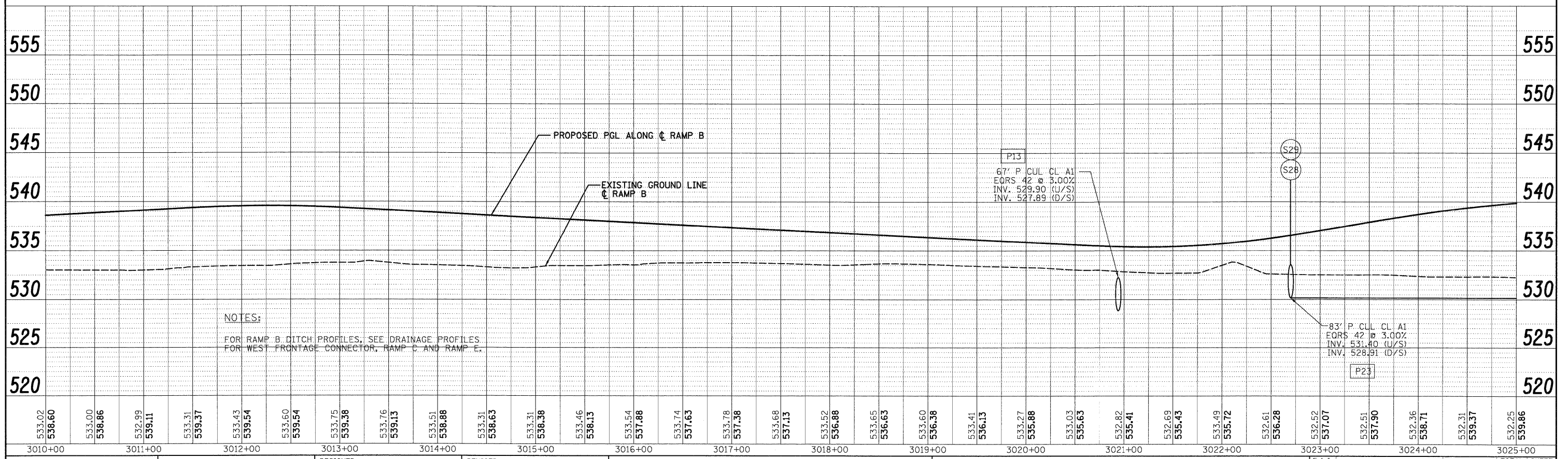
SCALE 1"=50'H; 1"=5'V SHEET NO. 11 OF 18 SHEETS STA. TO STA.

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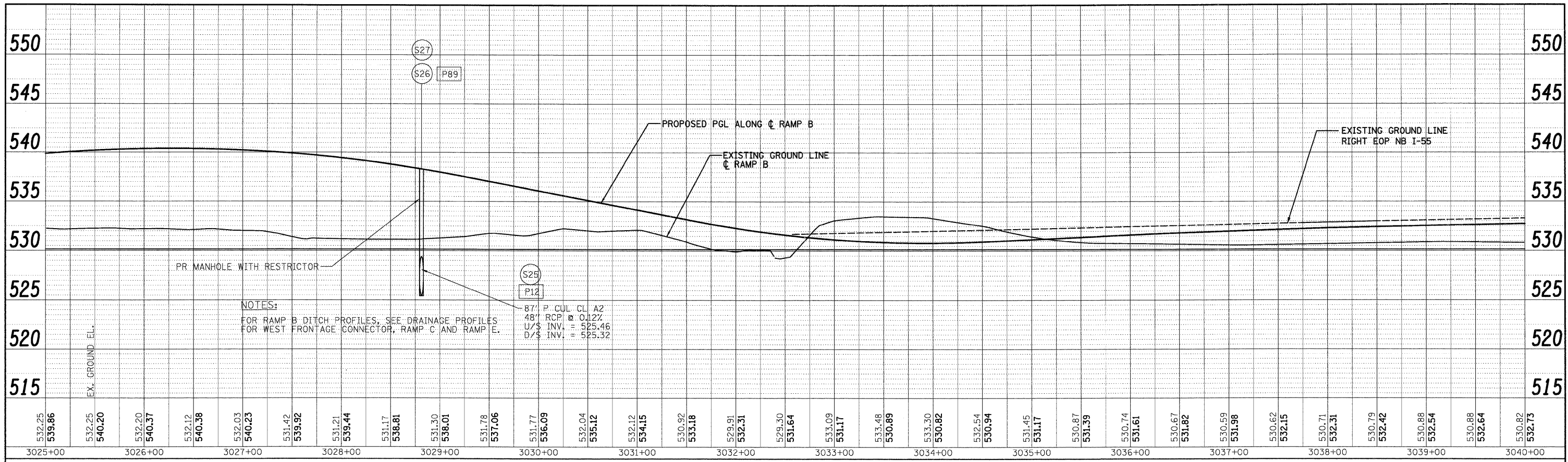


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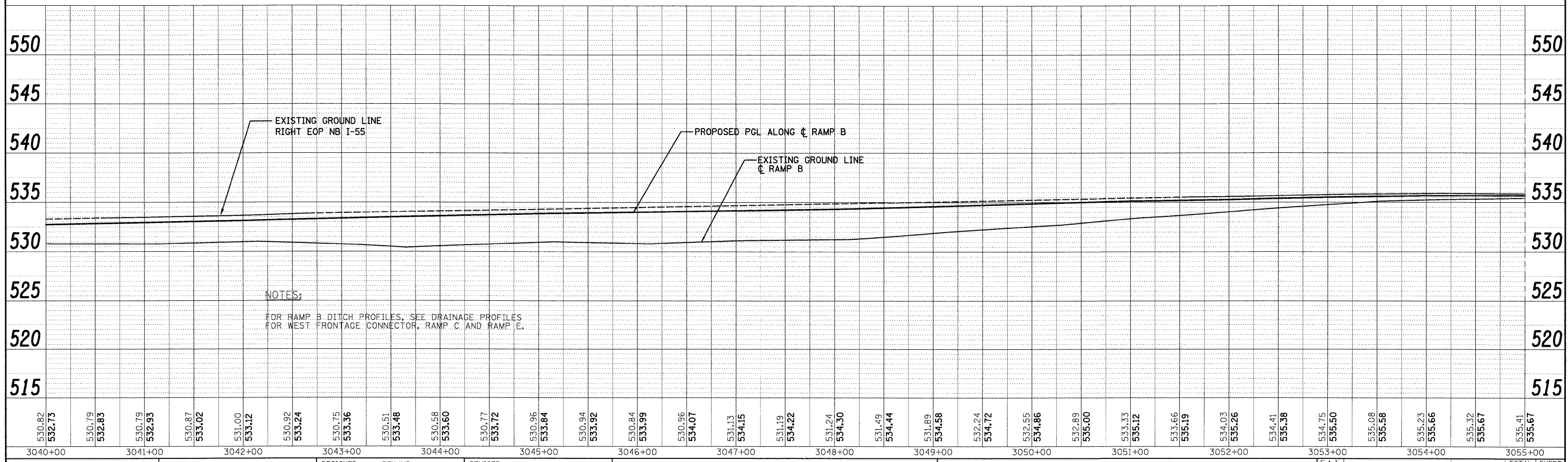
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PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISOR -			FED. ROAD DIST. NO. 1				
					SCALE 4"=50'H; 1"=5'V SHEET NO. 12 OF 18 SHEETS STA. TO STA.				

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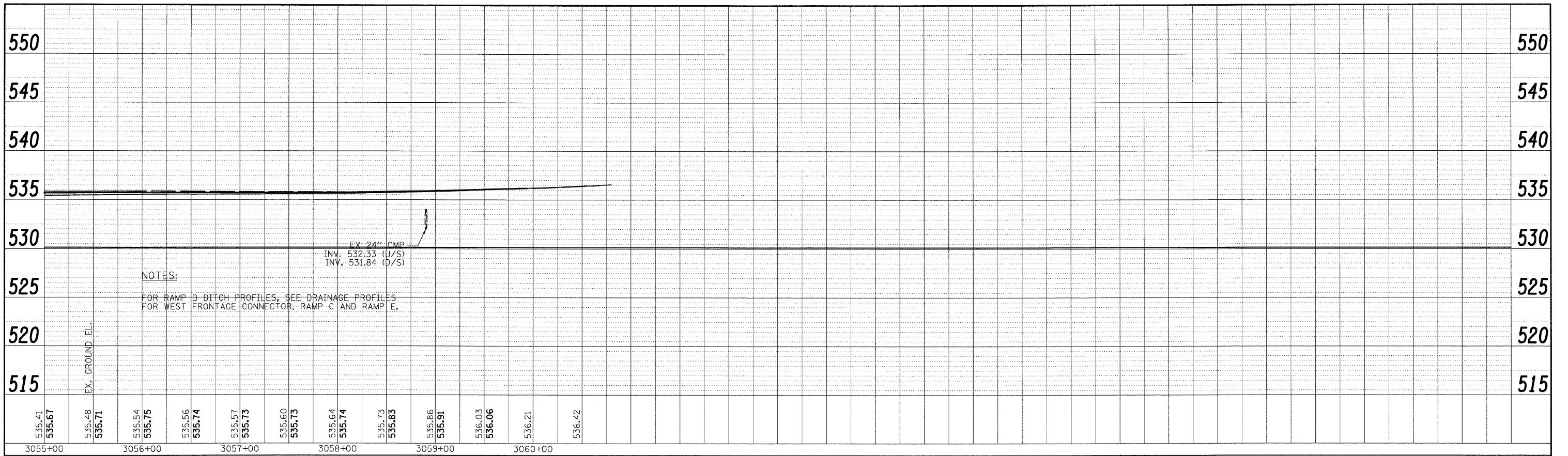
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PLOT SCALE = 1:50	CHECKED - CL	REVISOR -	DATE - 12/18/09			SCALE: 1"=50'H; 1"=5'V	SHEET NO. 13 OF 18 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISOR -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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PLAN	DESIGNED	BY	DATE
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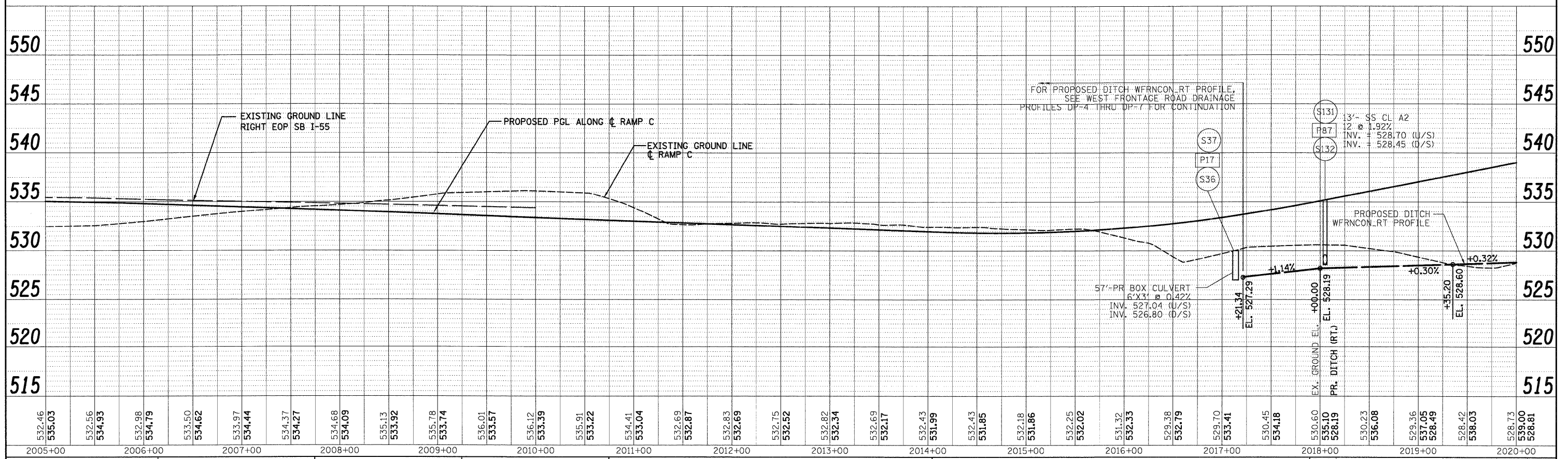
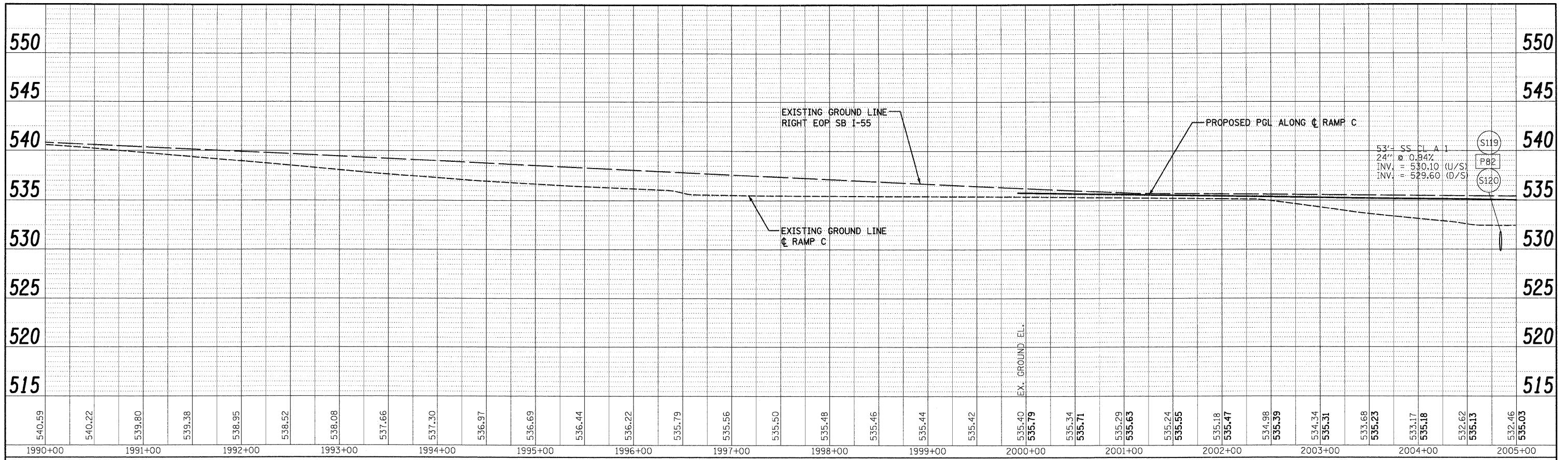
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PLOT SCALE = 1:50	PLOT DATE = 12/11/2009	DRAWN - PTK/VP	REVISED -			55	(99-1&2)AC-3	WILL	524	179
CHECKED - CL	DATE - 12/18/09	CHECKED - CL	REVISED -			CONTRACT NO. 60C31				
		DATE - 12/18/09	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE 1"=50'H; 1"=5'V SHEET NO. 14 OF 18 SHEETS STA. TO STA.										

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FILE NAME = D:\60031-SHT-DRAIN\PROFILE15.dgn

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 PLOT SCALE = 1:50
 PLOT DATE = 12/11/2009

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

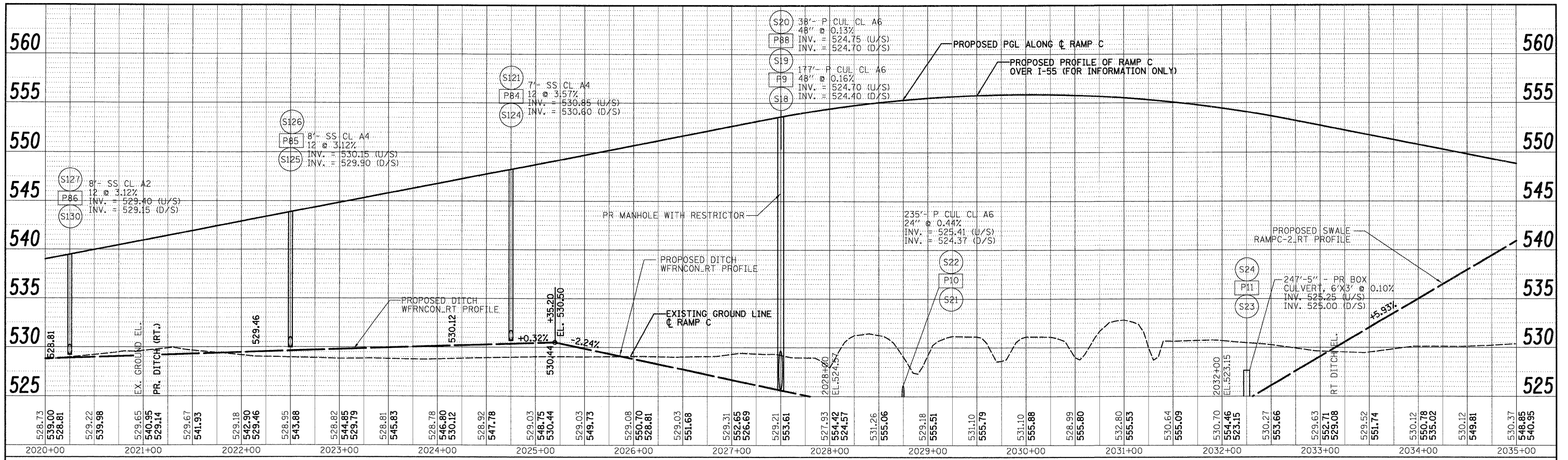
RAMP C DRAINAGE PROFILE

SCALE: H'=50'H; V'=5'V SHEET NO. 15 OF 18 SHEETS STA. TO STA.

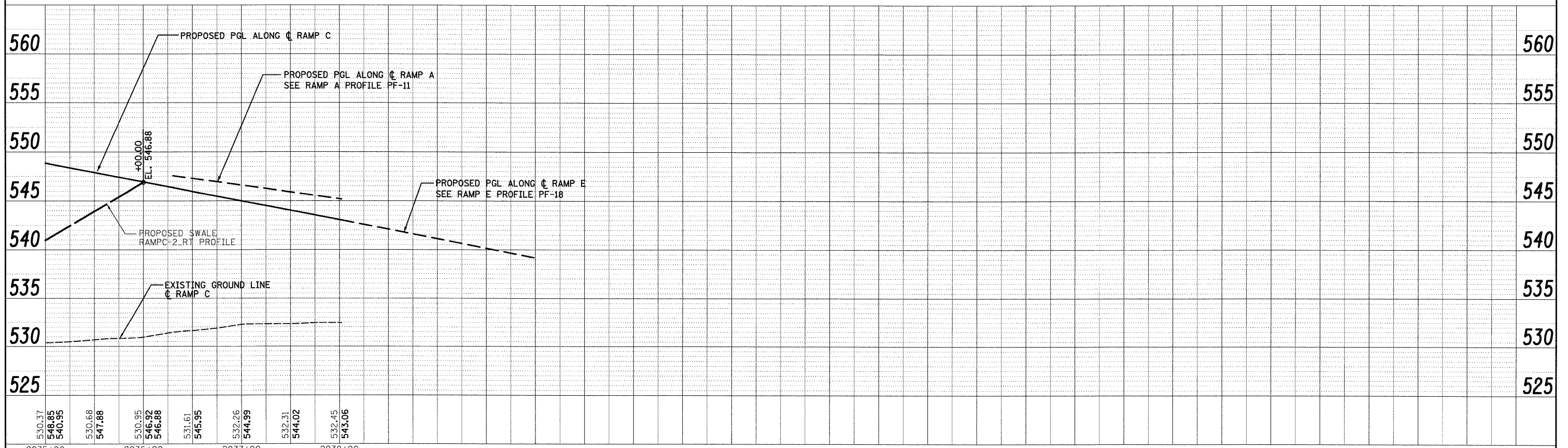
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	180
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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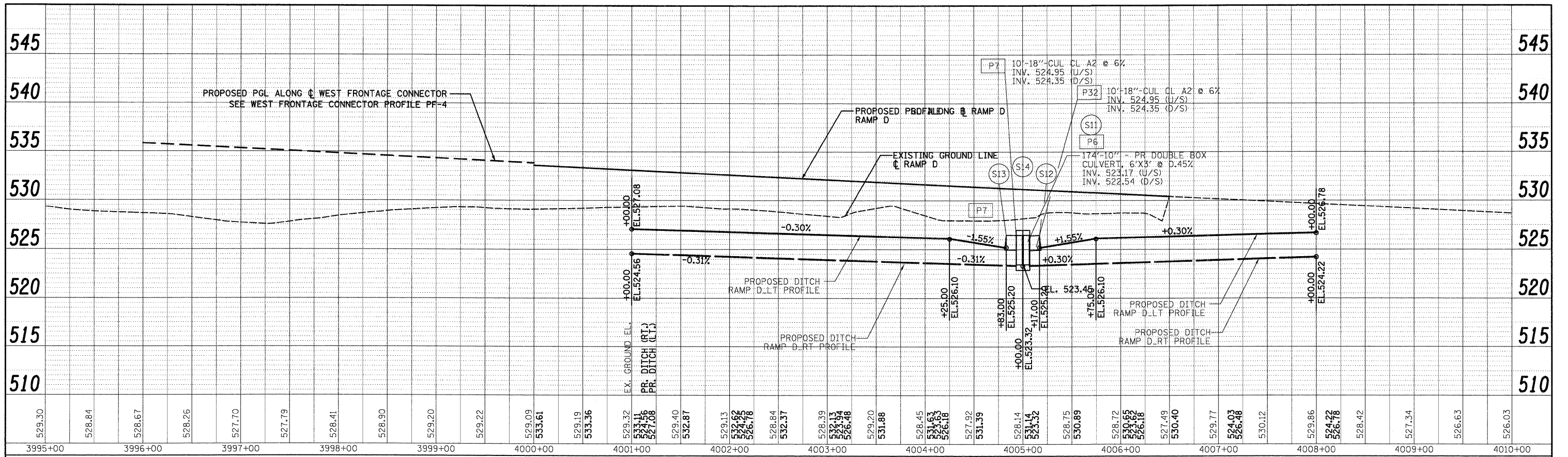


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 TEL: (312) 629-0240
 FAX: (312) 629-8449
 CONSULTING ENGINEERS

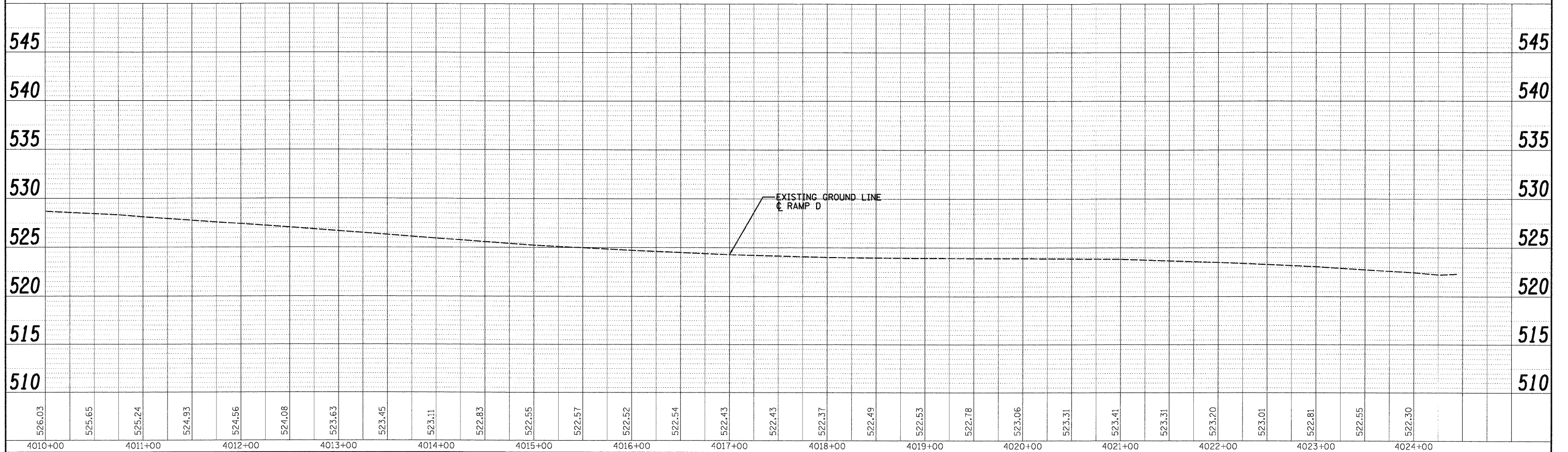
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PLOT SCALE = 1:50	CHECKED - CL	REVISIED -	REVISIED -			CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE = 12/18/09	REVISIED -	REVISIED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
SCALE 1"=50'H; 1"=5'V		SHEET NO. 16 OF 18 SHEETS				STA. TO STA.				

FINAL

PLAN	NO.	DATE
REVISION	BY	DATE
ALIGNED		
CHECKED		
CADD FILE NAME		



PROFILE	NO.	DATE
GRADES CHECKED		
BLK. NOTED		
STRUCTURE NOTATION CHKD		



300 W. ADAMS ST.
CHICAGO, IL 60606
SINGH & ASSOCIATES, INC.
TEL: (312) 629-0240
FAX: (312) 629-8419
CONSULTING ENGINEERS

FILE NAME = D:\62031-SHT-DRAINPROFILE17.dgn
USER NAME = TKLuaga

DESIGNED - PTK/VP
DRAWN - PTK/VP
CHECKED - CL
DATE - 12/18/09

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP D DRAINAGE PROFILE

SCALE 4"=50'H; 1"=5'V SHEET NO. 17 OF 18 SHEETS STA. TO STA.

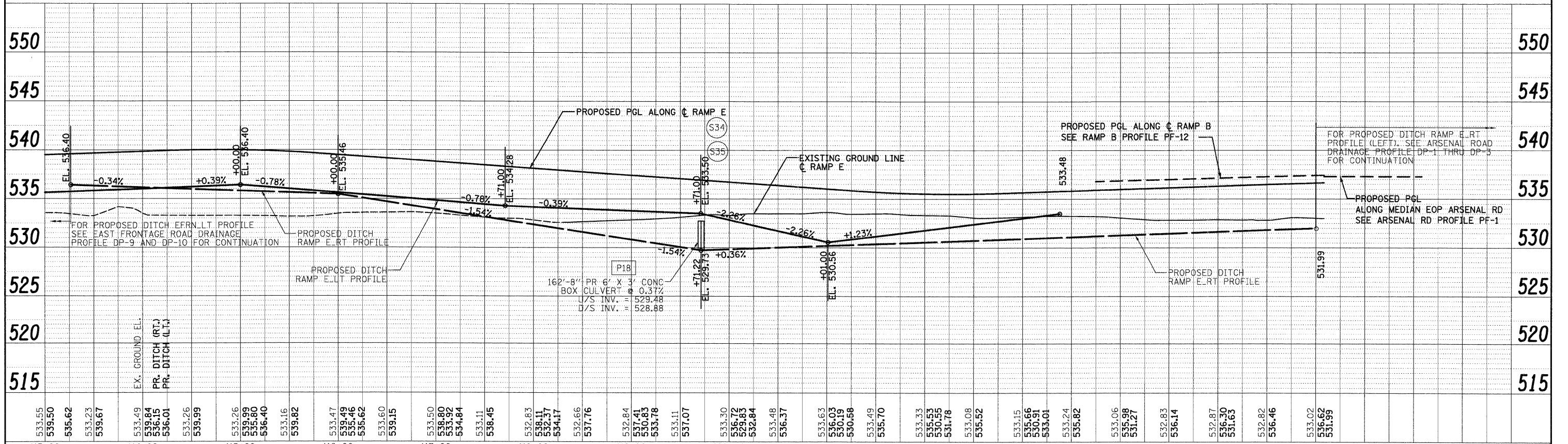
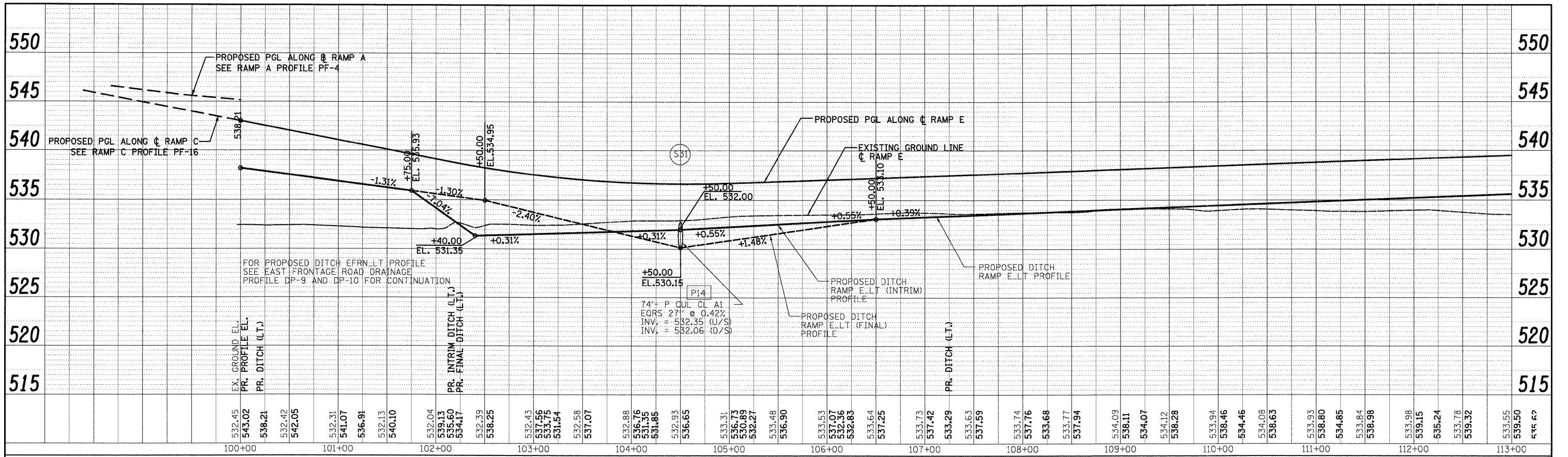
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	182
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

PLAN	REVISIONS	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		
NO.	NO.		

PROFILE	REVISIONS	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		
NO.	NO.		

300 W. ADAMS ST.
CHICAGO, IL 60606
TEL: (312) 629-0240
SINGH & ASSOCIATES, INC.
CONSULTING ENGINEERS
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FILE NAME = D:\B0C31-SHT-DRAINPROFILE18.dgn	USER NAME = TKluemel	DESIGNED - PTK/VP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAMP E DRAINAGE PROFILE	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 183	
PLOT SCALE = 1:50	CHECKED - CL	REVISED -	REVISED -			CONTRACT NO. 60C31					
PLOT DATE = 12/11/2009	DATE = 12/18/09	REVISED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
SCALE: 1"=50'H 1"=5'V SHEET NO. 18 OF 18 SHEETS						STA.	TO STA.				

FINAL



FILE NAME = D:\60C31-SHT-GRADING\01.dgn	USER NAME = TK\uegl	DESIGNED - MJT	REVISED -
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		DATE - 12/18/09	REVISED -

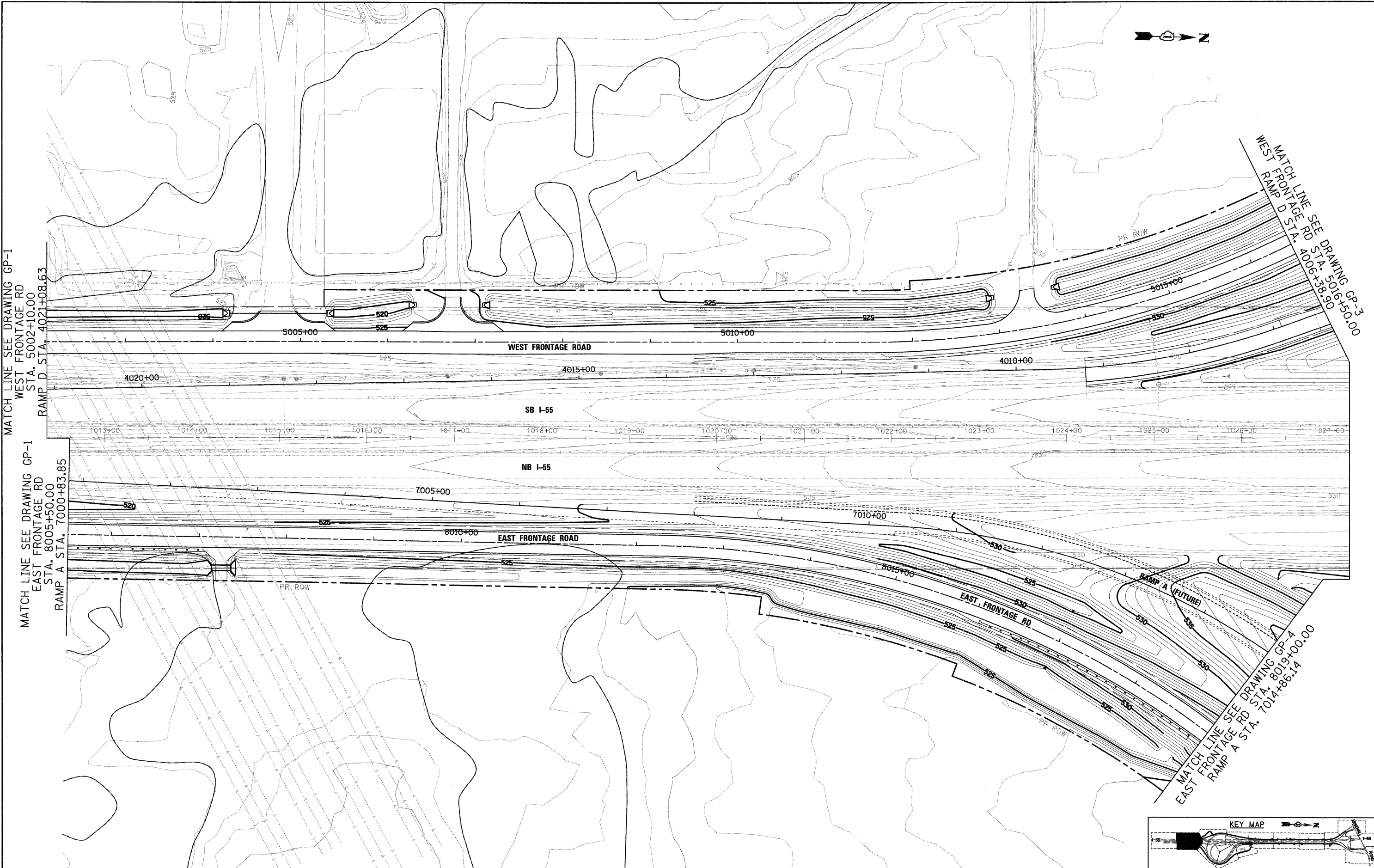
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 1 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	184
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



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 PLOT DATE = 12/11/2009

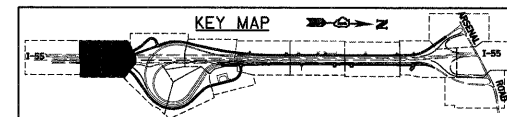
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DRAWN - MJT	1
CHECKED - DLT	2
DATE - 12/18/09	3

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

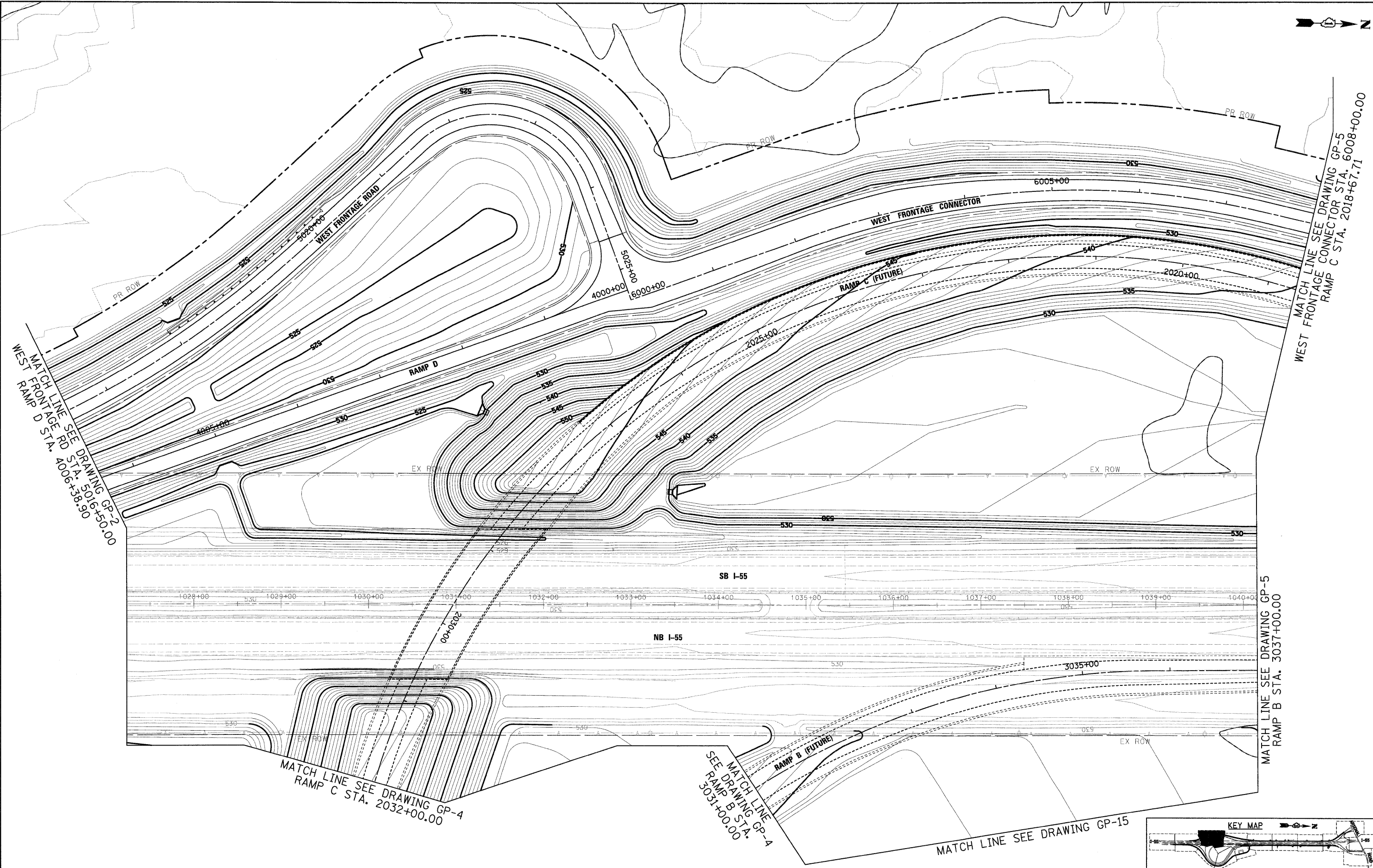
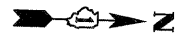
GRADING PLAN

SCALE: 1"=50' SHEET NO. 2 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	185
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 60C31	



FINAL



MATCH LINE SEE DRAWING GP-2
WEST FRONTAGE RD STA. 5016+50.00
WEST RAMP D STA. 4006+38.90

MATCH LINE SEE DRAWING GP-4
RAMP C STA. 2032+00.00

SEE MATCH LINE
SEE DRAWING GP-4
RAMP B STA. 3031+00.00

MATCH LINE SEE DRAWING GP-15

MATCH LINE SEE DRAWING GP-5
RAMP B STA. 3037+00.00

MATCH LINE SEE DRAWING GP-5
WEST FRONTAGE CONNECTOR STA. 6008+00.00
RAMP C STA. 2018+67.71

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130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D16RC31-SHT-GRADING03.dgn
USER NAME = TKLuegel
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PLOT DATE = 12/11/2009

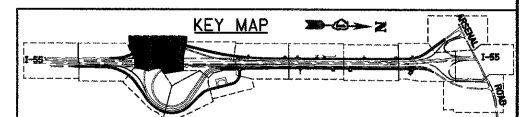
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DRAWN - MJT
CHECKED - DLT
DATE - 12/18/09

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

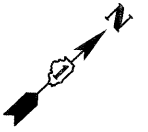
GRADING PLAN

SCALE: 1"=50' SHEET NO. 3 OF 15 SHEETS STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	186
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

FINAL



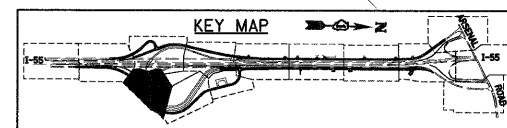
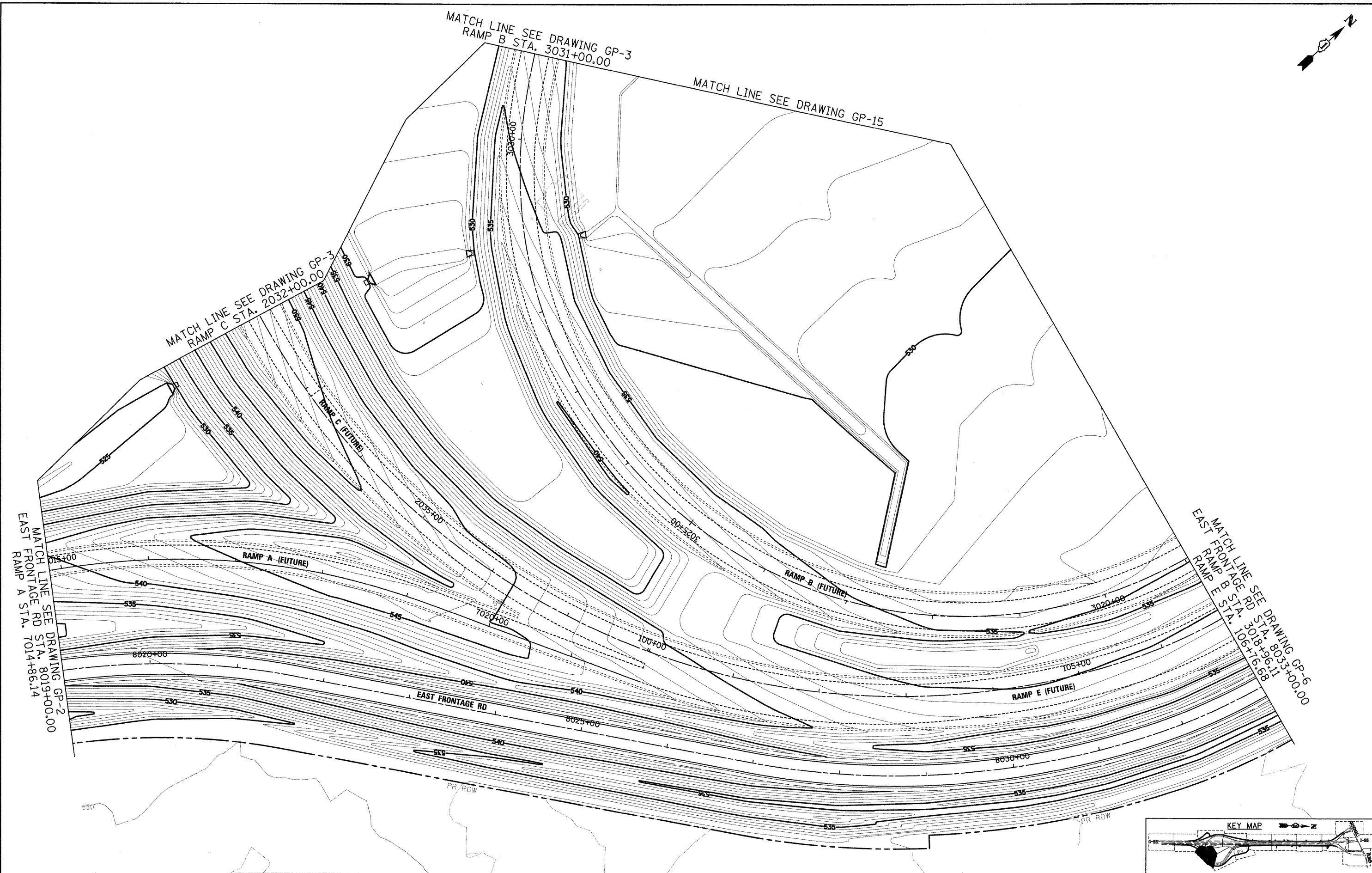
MATCH LINE SEE DRAWING GP-3
RAMP B STA. 3031+00.00

MATCH LINE SEE DRAWING GP-15

MATCH LINE SEE DRAWING GP-3
RAMP C STA. 2032+00.00

MATCH LINE SEE DRAWING GP-6
EAST FRONTAGE RD STA. 8033+00.00
RAMP E STA. 106+76.68

MATCH LINE SEE DRAWING GP-2
EAST FRONTAGE RD STA. 8019+00.00
RAMP A STA. 7014+86.14



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Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D168C31-SHT-GRADING04.dgn	USER NAME = TKLuegal	DESIGNED - MJT	REVISED -
		DRAWN - MJT	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

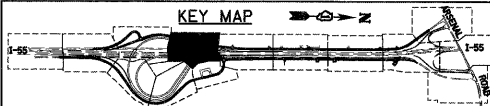
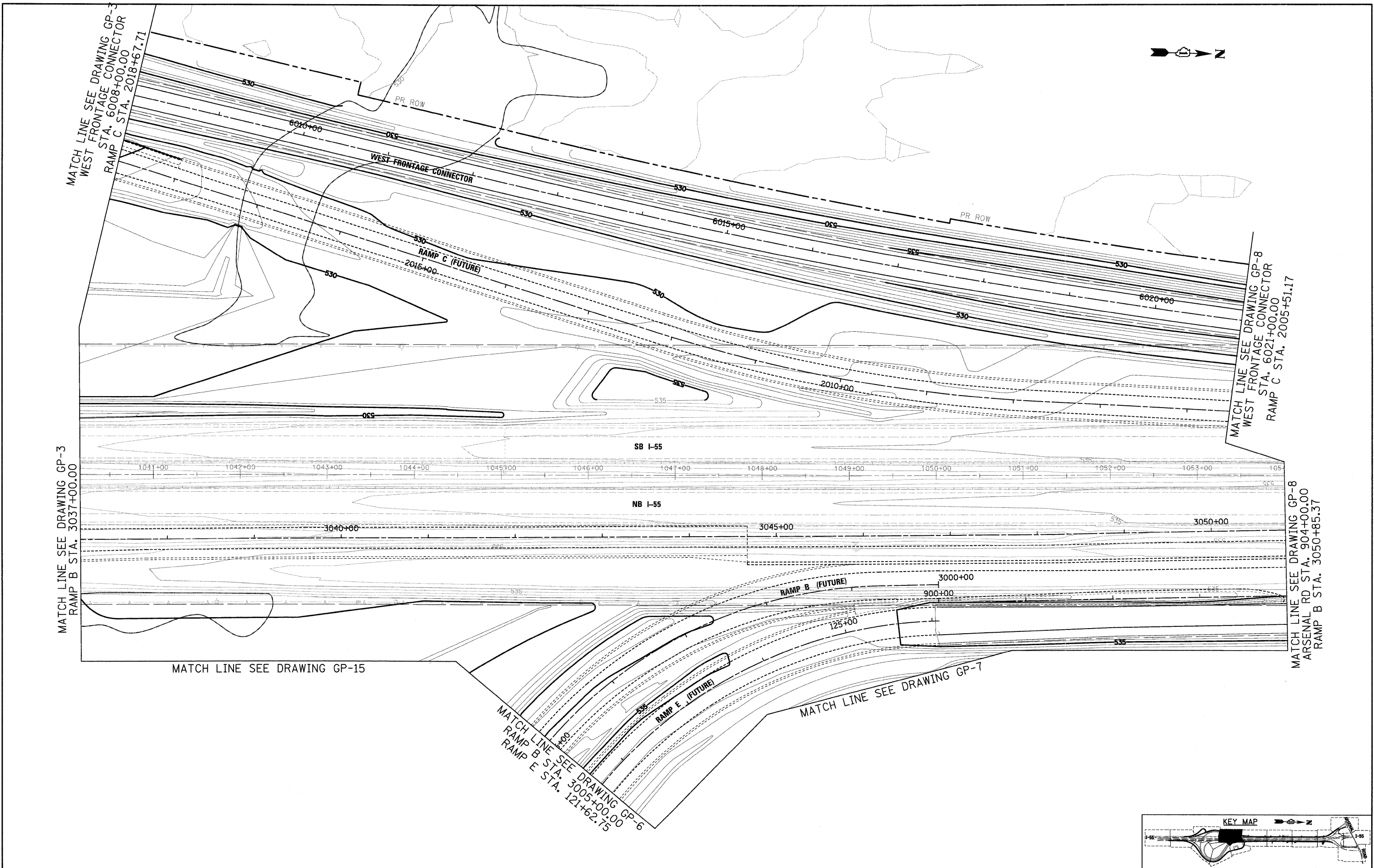
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=50' SHEET NO. 4 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	187
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



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	PLOT DATE = 12/11/2009	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 5 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	188
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL

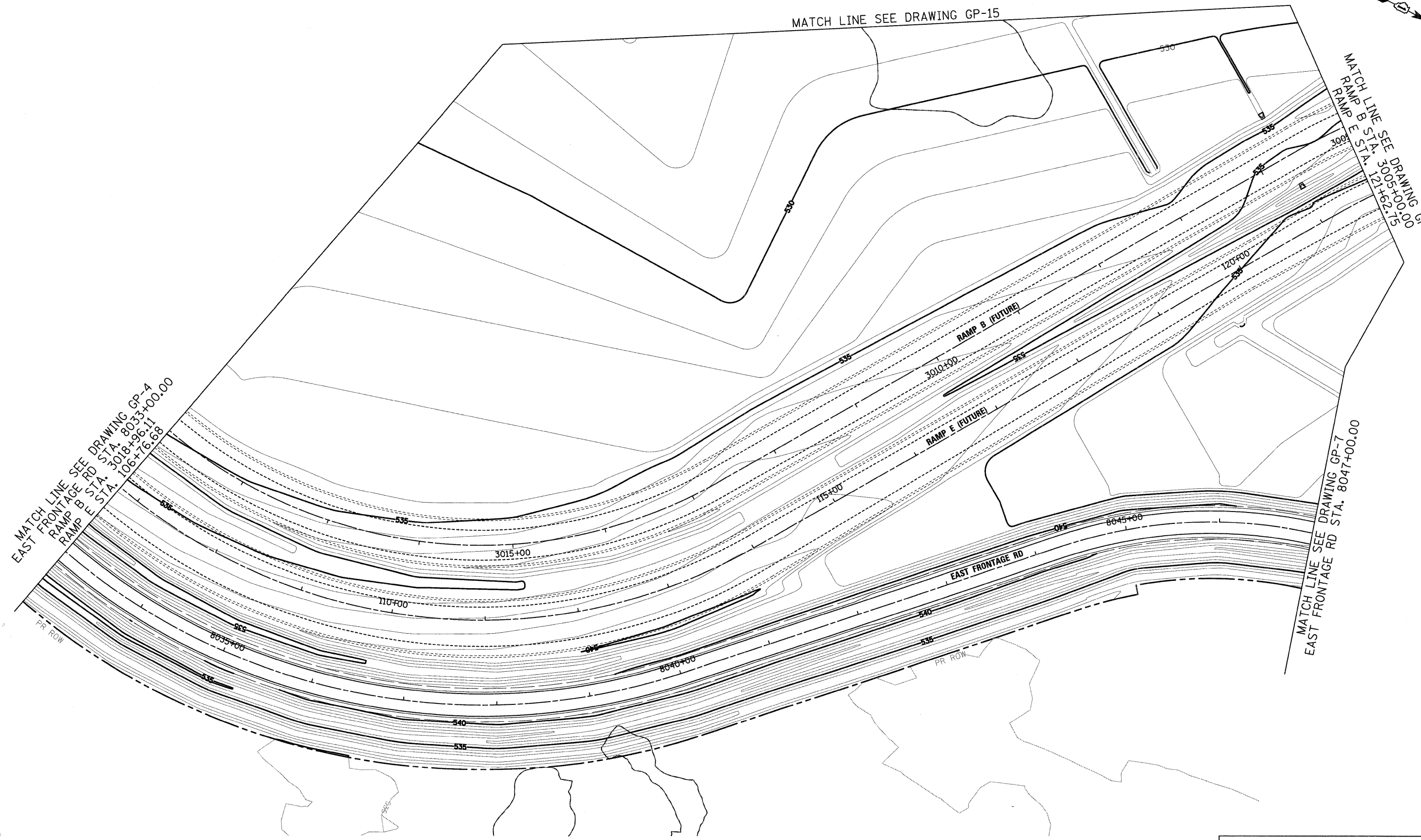


MATCH LINE SEE DRAWING GP-15

MATCH LINE SEE DRAWING GP-5
RAMP B STA. 3005+00.00
RAMP E STA. 121+62.75

MATCH LINE SEE DRAWING GP-4
EAST FRONTAGE RD STA. 8033+00.00
RAMP B STA. 3018+96.11
RAMP E STA. 106+76.68

MATCH LINE SEE DRAWING GP-7
EAST FRONTAGE RD STA. 8047+00.00



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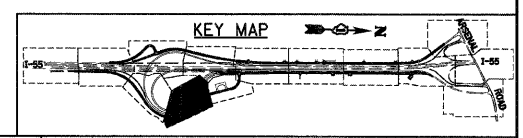
DESIGNED - MJT
DRAWN - MJT
CHECKED - DLT
DATE - 12/18/09

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

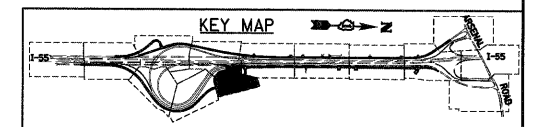
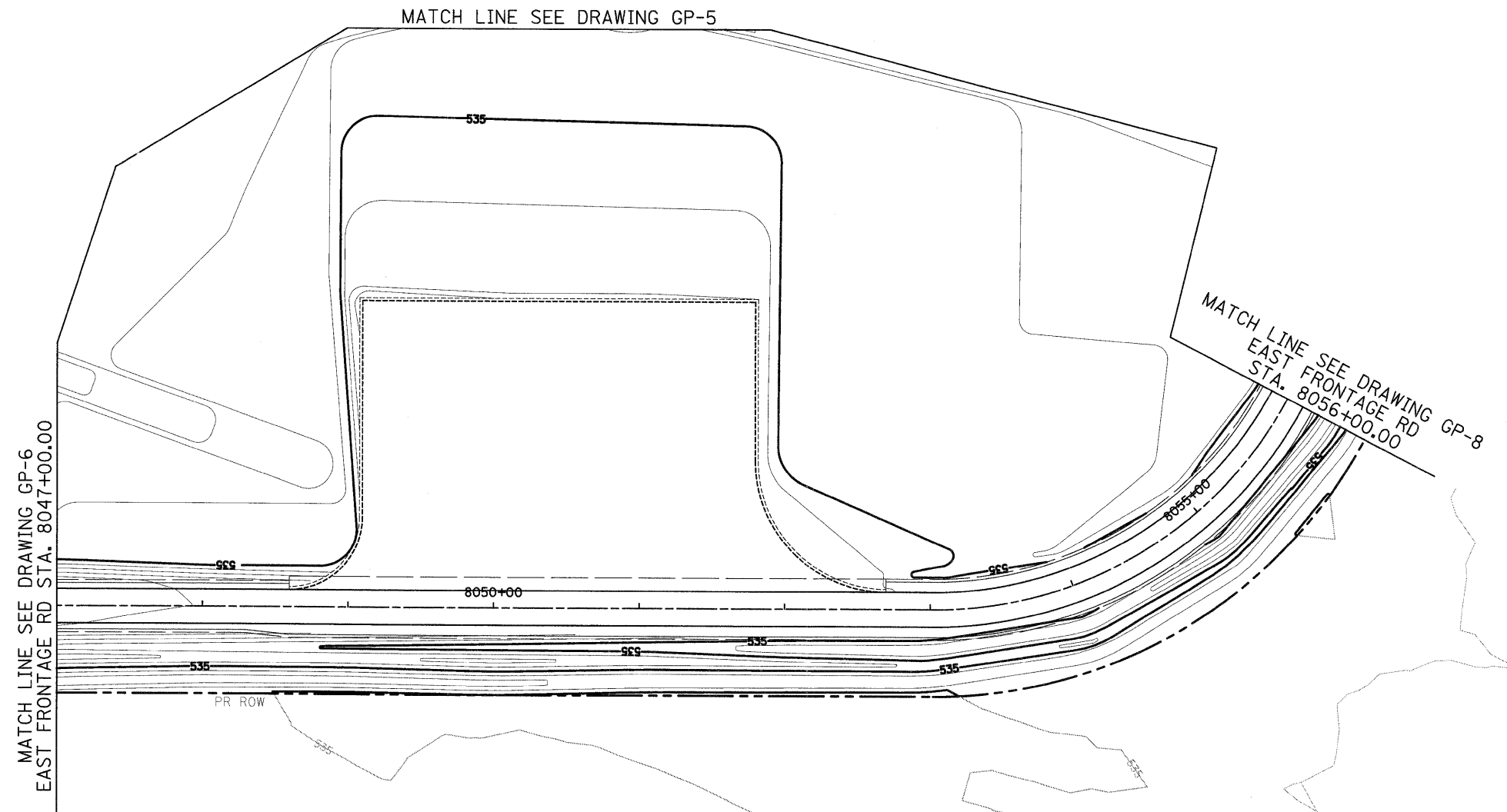
GRADING PLAN

SCALE: 1"=50' SHEET NO. 6 OF 15 SHEETS STA. TO STA.



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	189
CONTRACT NO. 60C31			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

FINAL



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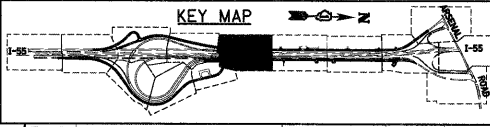
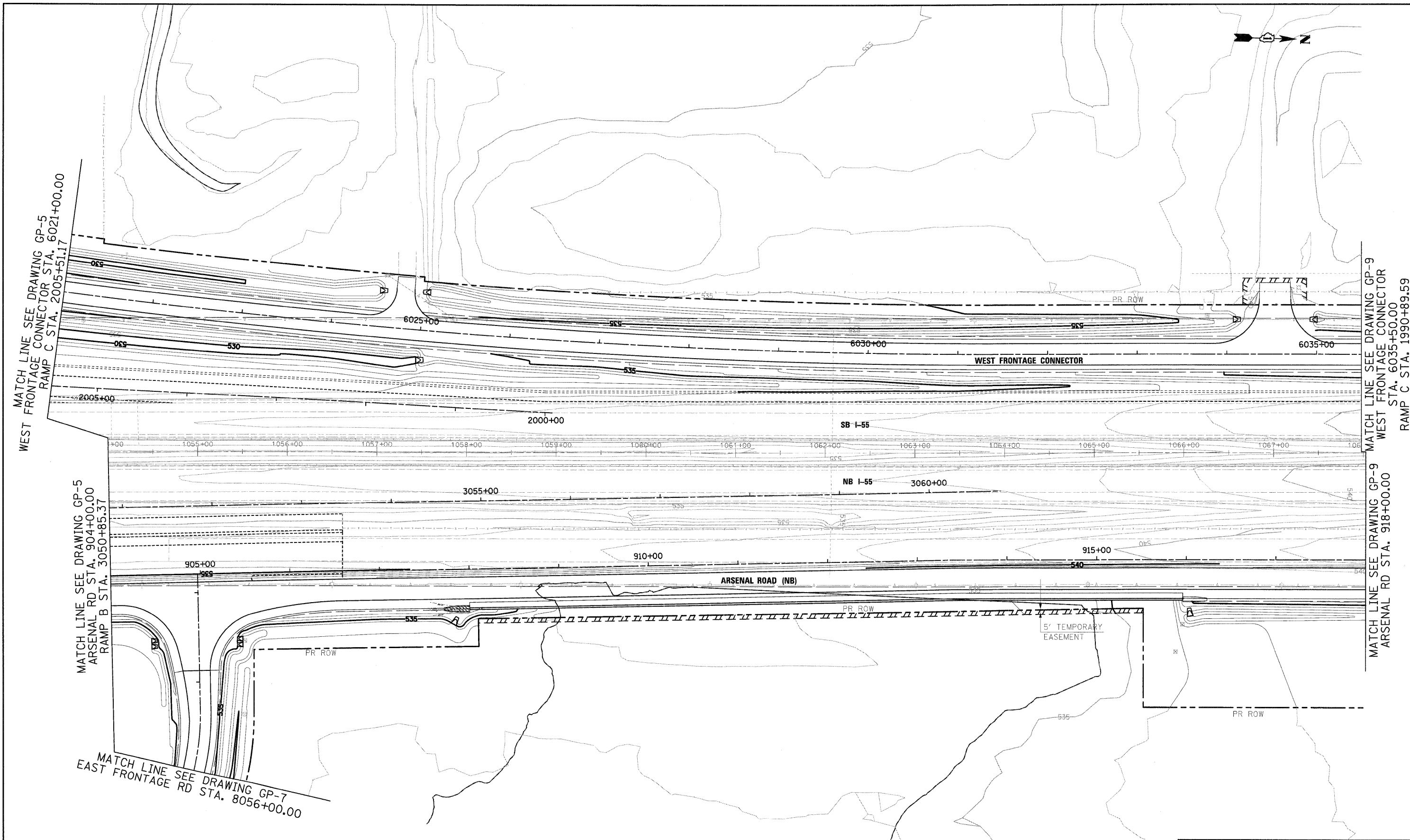
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DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - DLT	REVISED -
DATE - 12/18/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
 SCALE: 1"=50' SHEET NO. 7 OF 15 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 190
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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REVISED -	REVISED -
REVISED -	REVISED -
REVISED -	REVISED -

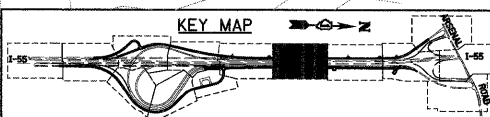
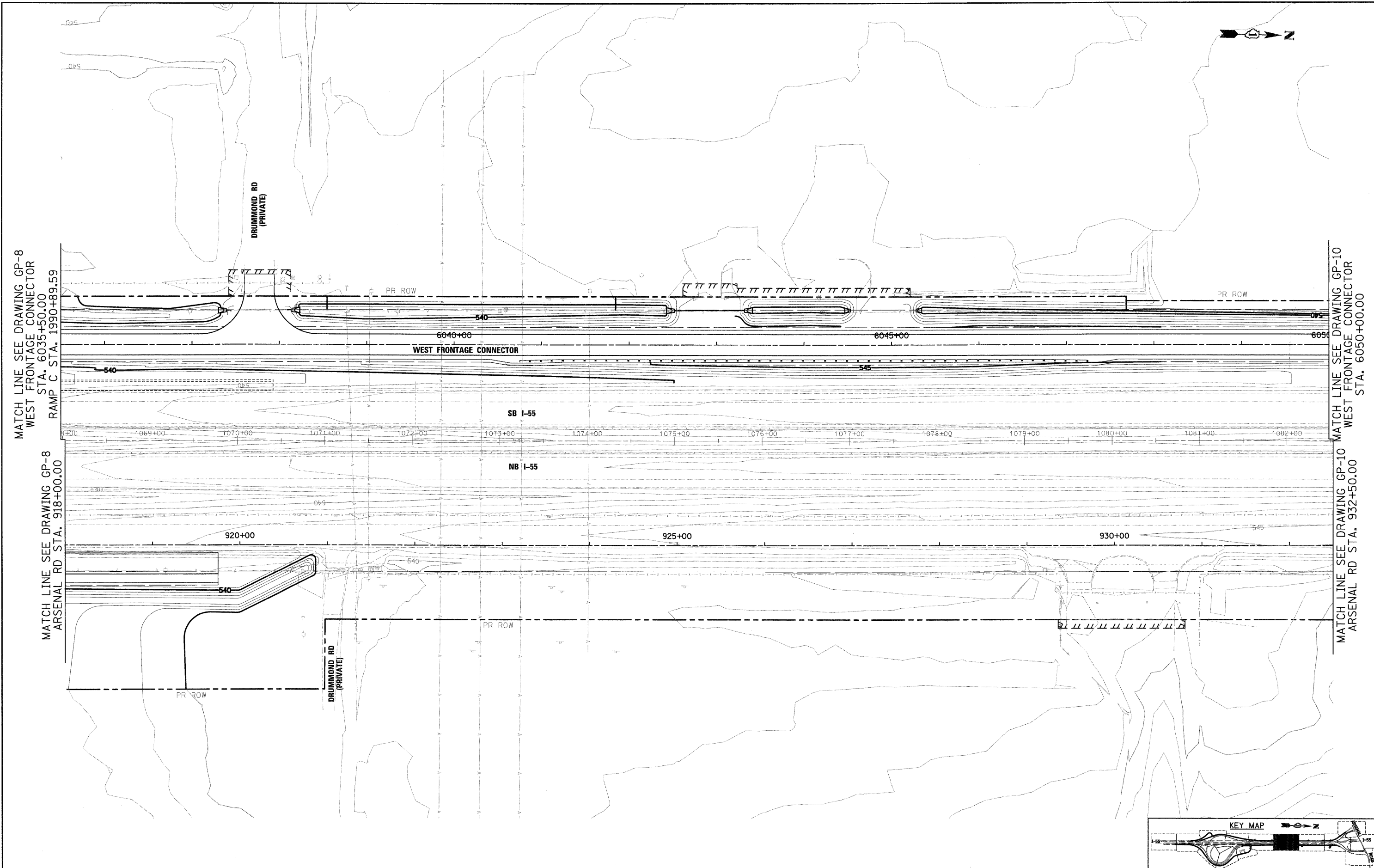
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 8 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL.	524	191
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



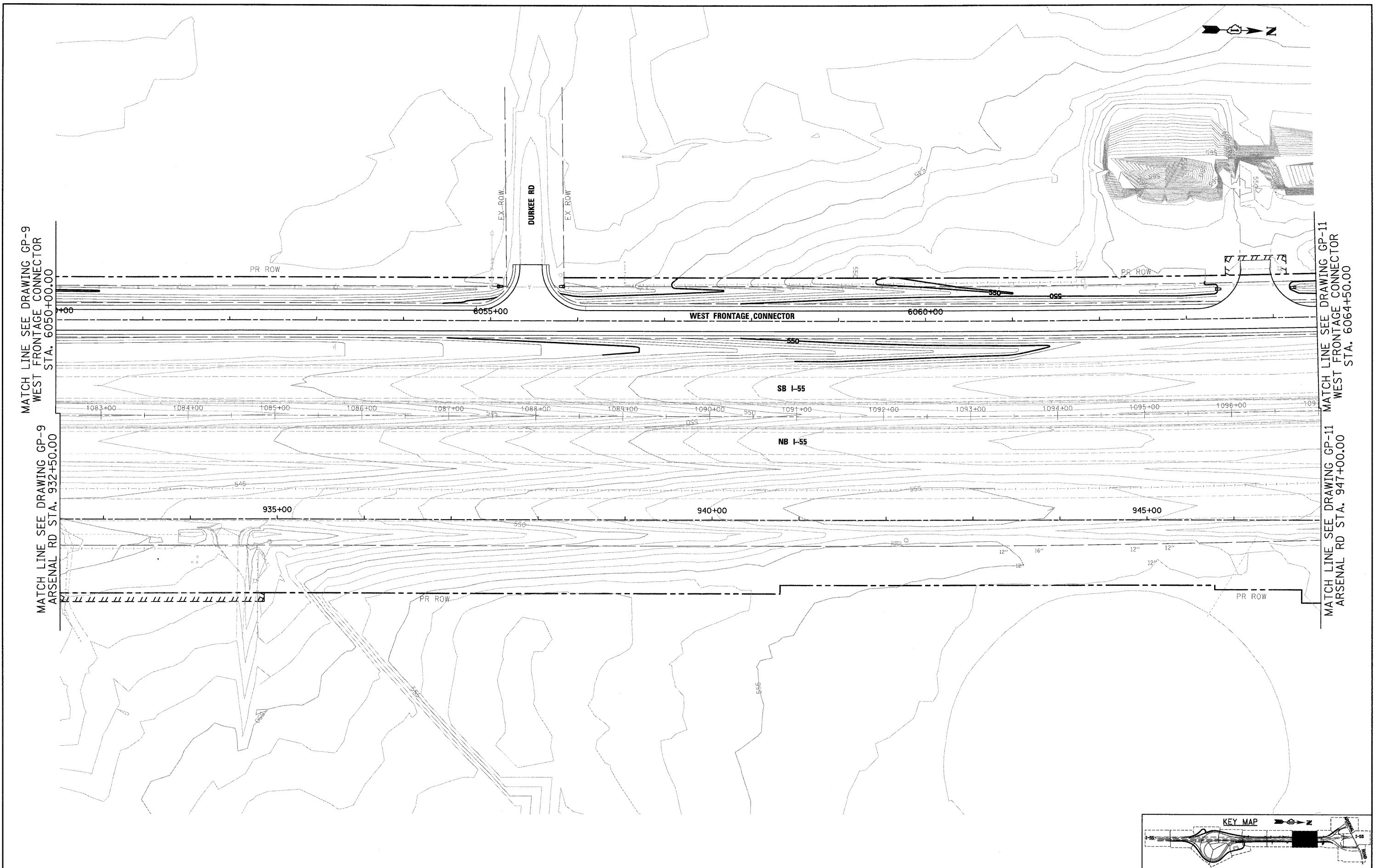
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	PLOT DATE = 12/11/2009	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 9 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	192
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

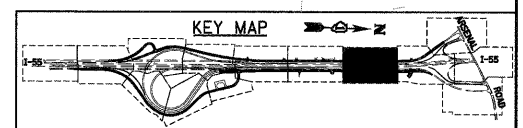


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 STA. 6050+00.00

MATCH LINE SEE DRAWING GP-9
 ARSENAL RD STA. 932+50.00

MATCH LINE SEE DRAWING GP-11
 WEST FRONTAGE CONNECTOR
 STA. 6064+50.00

MATCH LINE SEE DRAWING GP-11
 ARSENAL RD STA. 947+00.00



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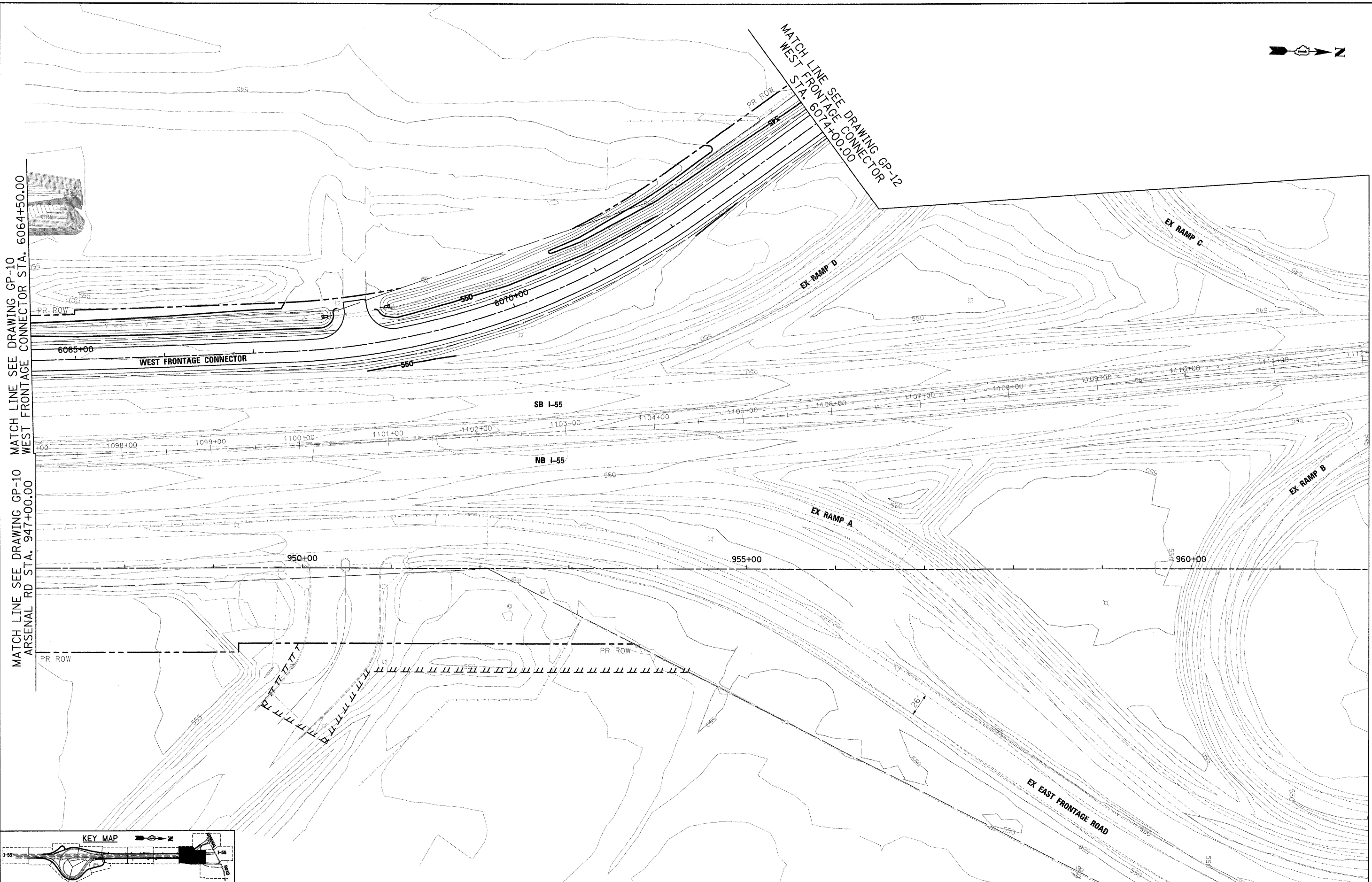
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 10 OF 15 SHEETS STA. TO STA.

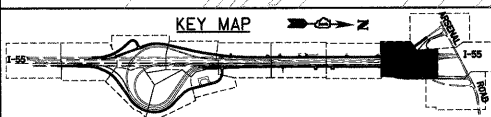
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	193
				CONTRACT NO. 60C31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



MATCH LINE SEE DRAWING GP-10 WEST FRONTAGE CONNECTOR STA. 6064+50.00
 MATCH LINE SEE DRAWING GP-10 WEST FRONTAGE CONNECTOR STA. 6064+50.00
 MATCH LINE SEE DRAWING GP-10 ARSENAL RD STA. 947+00.00
 MATCH LINE SEE DRAWING GP-10 ARSENAL RD STA. 947+00.00

MATCH LINE SEE DRAWING GP-13 ARSENAL RD STA. 962+00.00
 MATCH LINE SEE DRAWING GP-13 ARSENAL RD STA. 962+00.00



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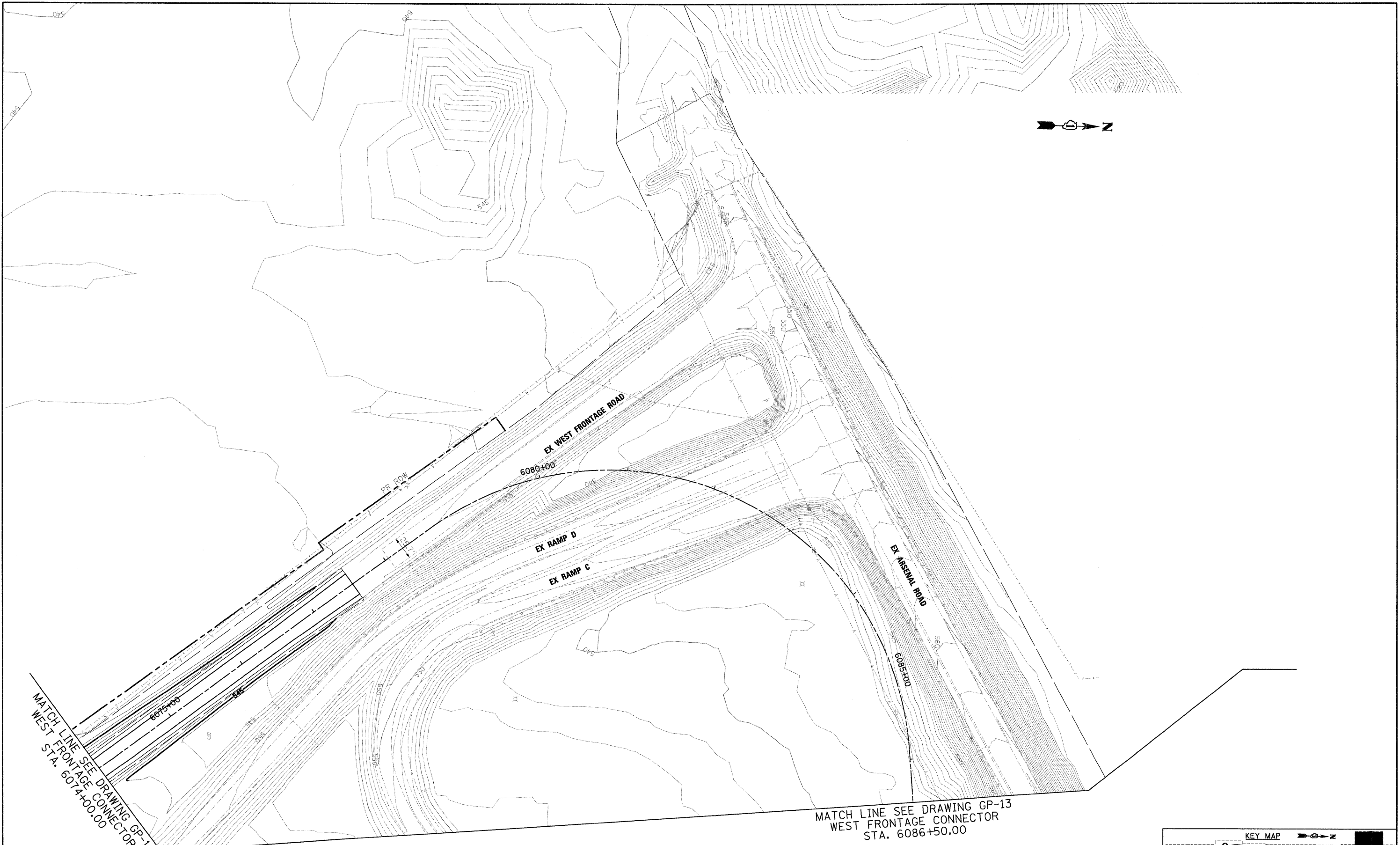
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 11 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	194
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



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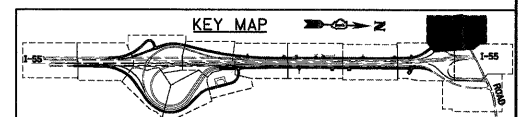
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		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

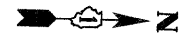
GRADING PLAN

SCALE: 1"=50' SHEET NO. 12 OF 15 SHEETS STA. TO STA.

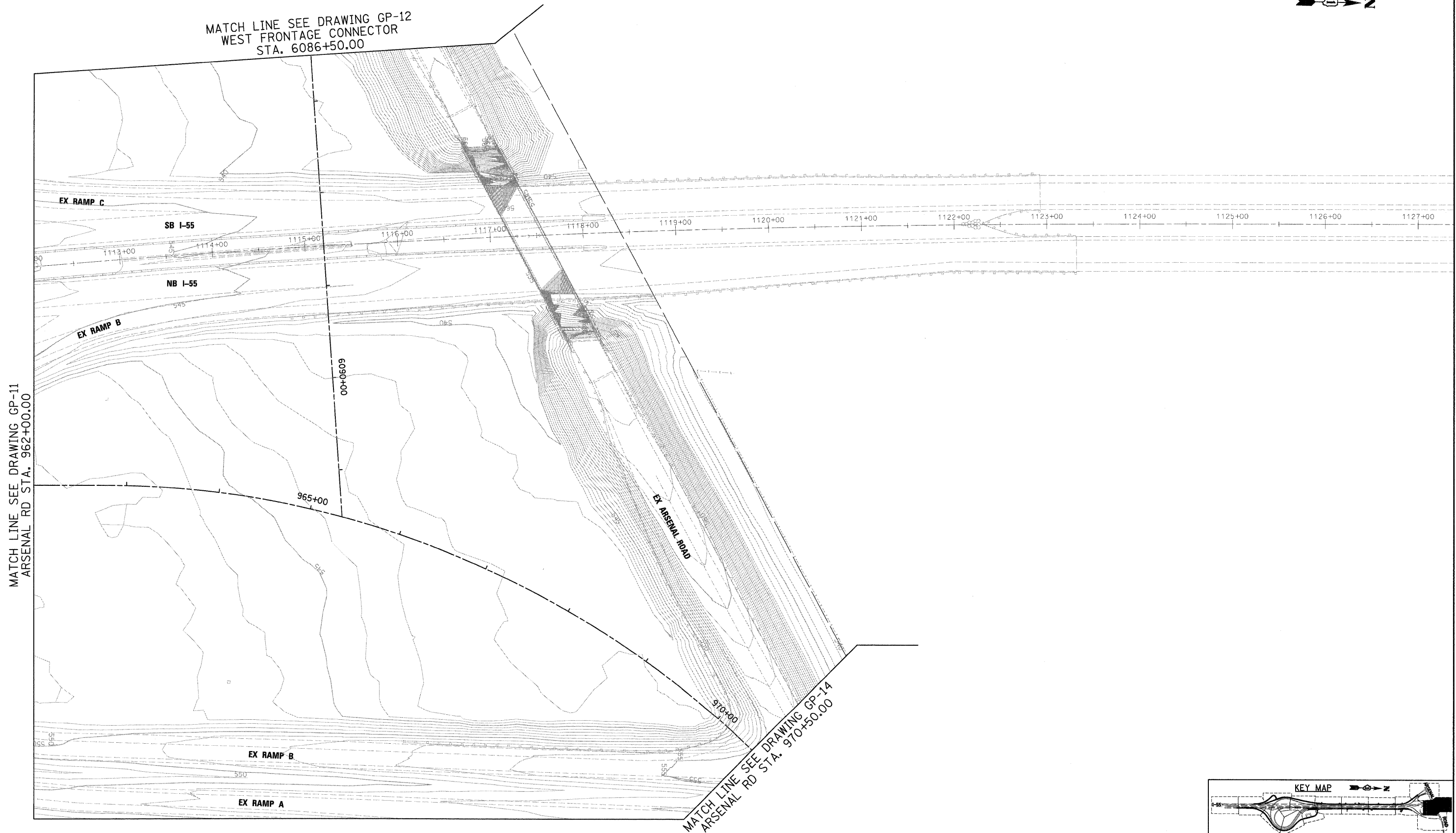
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	195
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



FINAL

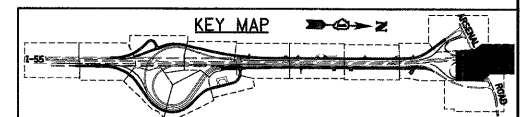


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WEST FRONTAGE CONNECTOR
STA. 6086+50.00



MATCH LINE SEE DRAWING GP-11
ARSENAL RD STA. 962+00.00

MATCH LINE SEE DRAWING GP-14
ARSENAL RD STA. 970+50.00



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Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME =
D1S80C31-SHT-GRADING13.dgn

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DATE - 12/18/09

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REVISED -

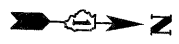
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1"=50' SHEET NO. 13 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	196
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



MATCH LINE SEE DRAWING GP-13
ARSENAL RD STA. 9070+50.00

EX RAMP A

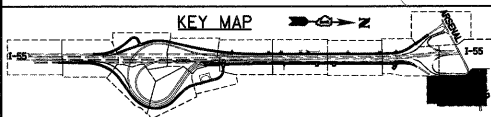
EX EAST FRONTAGE ROAD

EX ARSENAL ROAD

00+086



KEY MAP



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Engineers / Architects
130 East Randolph Street, Chicago, Illinois 60601

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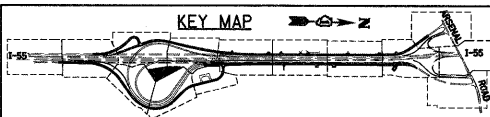
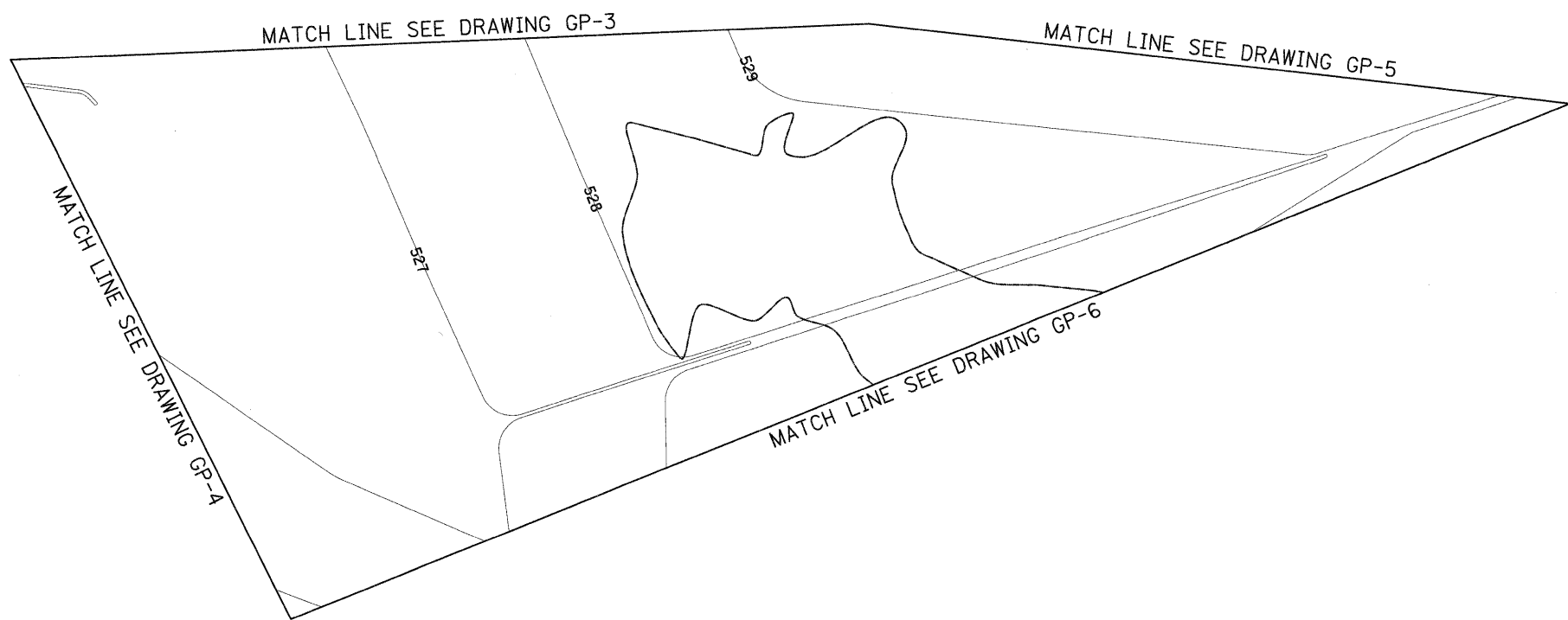
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=50' SHEET NO. 14 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	197
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

FINAL



McDonough Associates Inc.
 Engineers / Architects
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D:\60\C31-SHT-GRADING15.dgn	USER NAME = TKluego	DESIGNED - MJT	REVISED -
	PLOT SCALE = 1:50	DRAWN - MJT	REVISED -
	PLOT DATE = 12/11/2009	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

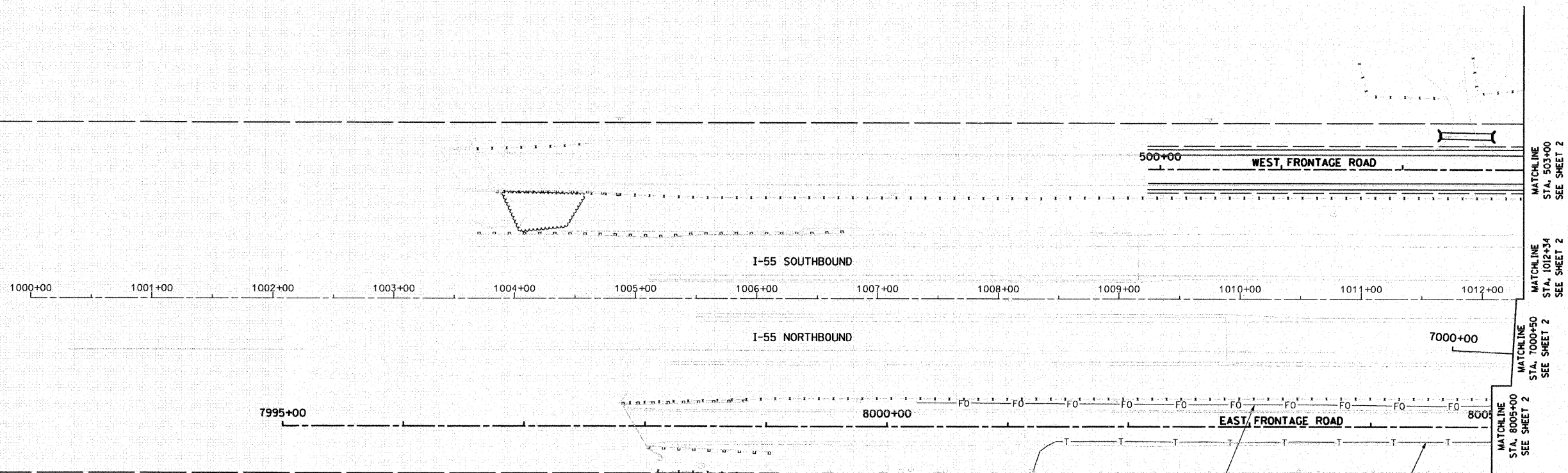
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=50' SHEET NO. 15 OF 15 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	198
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

FINAL



UNKNOWN UNDERGROUND FIBER OPTIC LINE
SUE QUALITY LEVEL B

AT&T UNDERGROUND TELEPHONE LINE
SUE QUALITY LEVEL B

LEGEND

— T —	EXISTING UNDERGROUND TELEPHONE
— FO —	EXISTING UNDERGROUND FIBER OPTIC
— E —	EXISTING UNDERGROUND ELECTRIC
— G —	EXISTING UNDERGROUND GAS

- NOTES:**
- HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NUMBER 60C31, DATED NOVEMBER 20, 2008.
 - COMCAST DOES NOT HAVE ANY UNDERGROUND FACILITIES WITHIN THE PROJECT LIMITS.
 - UNKNOWN FIBER OPTIC LINE WAS DISCOVERED IN THE FIELD. IT IS ASSUMED TO BE LEVEL 3 COMMUNICATION. AS OF JANUARY 9, 2008, ASE HAS NOT RECEIVED LEVEL 3 COMMUNICATION UTILITY MAPS. THEREFORE, THE UNKNOWN FIBER OPTIC SHOWN BASED ON FIELD EVIDENCE.

STATE OF ILLINOIS)
COUNTY OF COOK) S.S.

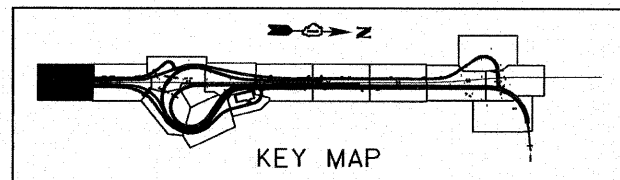
UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 1ST DAY OF DECEMBER A.D. 2008 AND THE 8TH DAY OF JANUARY A.D. 2009.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 16TH DAY OF JANUARY A.D., 2009. CHICAGO, IL.



Steven M. Rienks
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619
MY LICENSE EXPIRES 11/30/2009



AMERICAN
SURVEYING & ENGINEERING, P.C.
SURVEYORS - ENGINEERS
GEODESISTS - MAPPING SCIENTISTS
Chicago 773-444-0800 / Fax 773-444-0808
Dixons 815-288-6231 / Fax 815-288-6277
Aurora 630-997-4105 / Fax 630-997-4121
Illinois Professional Design Firm No. 184-003192

FILE NAME =	USER NAME =	DESIGNED -	REVISED -
*FILE#		DRAWN -	REVISED -
	PLOT SCALE = 1"=50'	CHECKED -	REVISED -
	PLOT DATE = 1/16/2009	DATE -	REVISED -

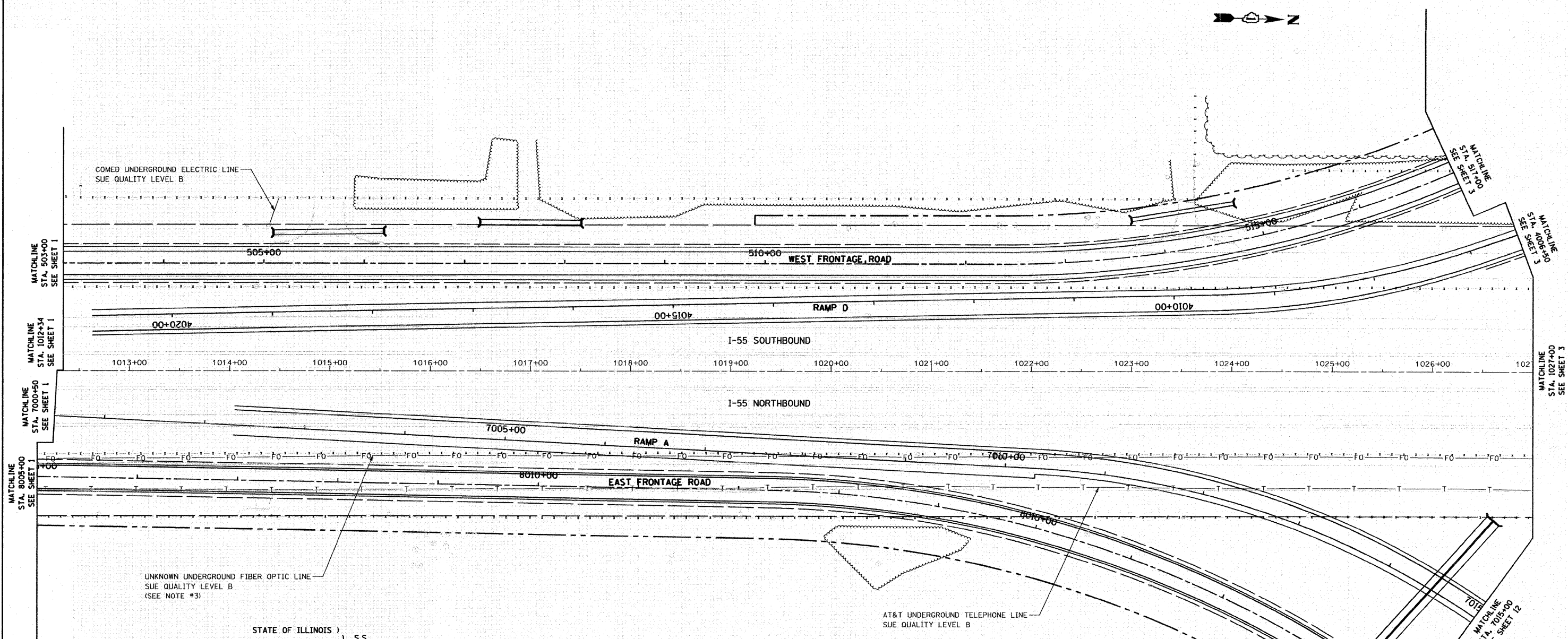
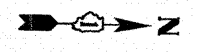
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUE INVESTIGATION OF
UNDERGROUND UTILITIES**

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2-R	WILL	524	199
CONTRACT NO. 60C31			ILLINOIS FED. AID PROJECT	

FINAL
UTIL-1



STATE OF ILLINOIS)
 COUNTY OF COOK) S.S.

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

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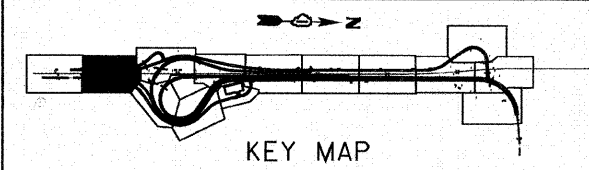


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- LEGEND**
- T — EXISTING UNDERGROUND TELEPHONE
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUE INVESTIGATION OF UNDERGROUND UTILITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99-2HB-2-R	WILL	524	200
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 60C31				

FINAL