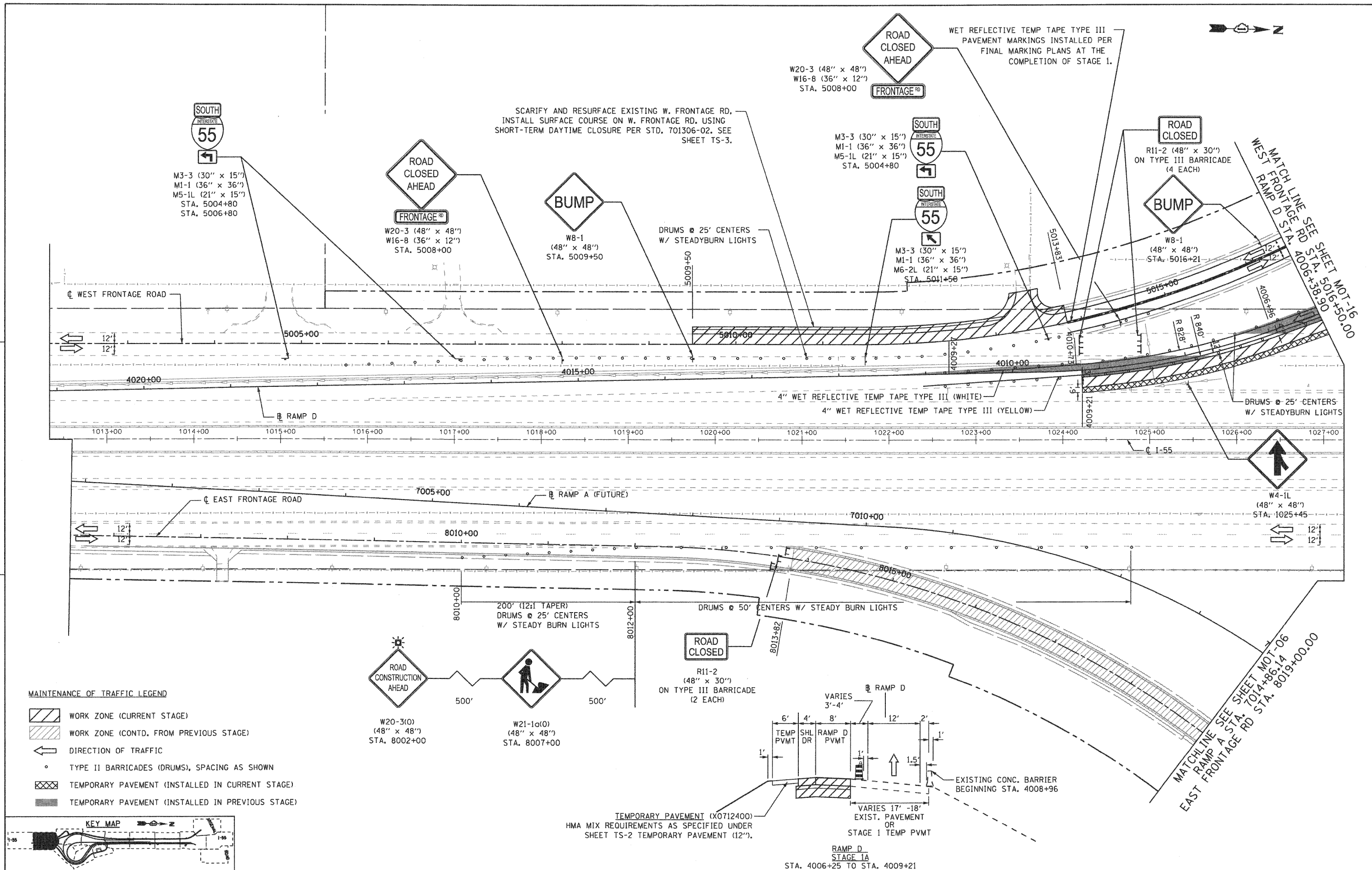
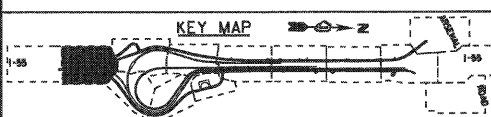


**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 800  
 Chicago, Illinois 60607



- 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 = ...XD160C31-SHT-STAGING1A02.dgn	USER NAME = gra	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

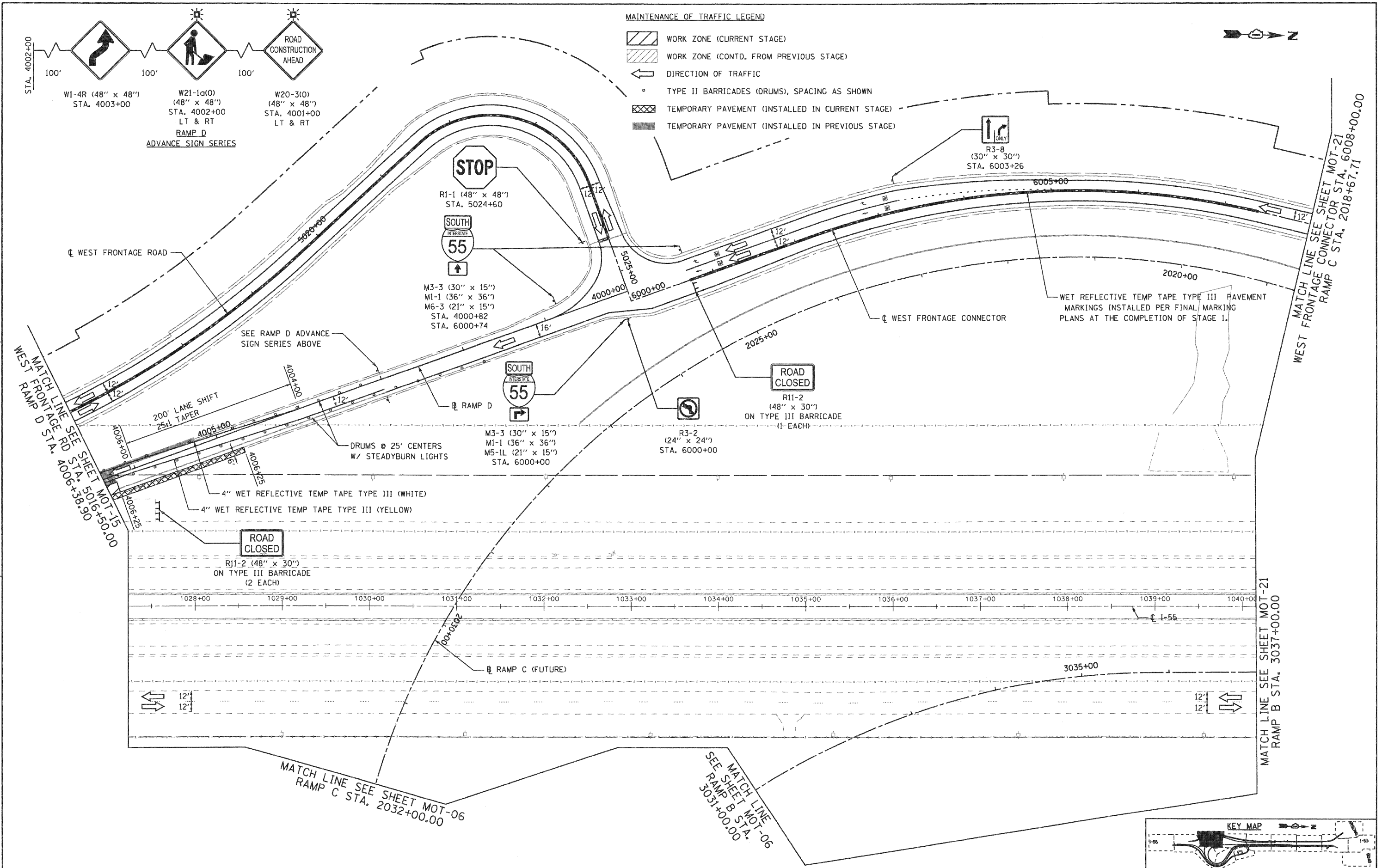
**MAINTENANCE OF TRAFFIC  
 STAGE 1A**

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

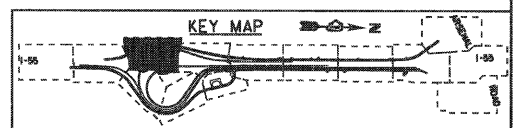
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	101
CONTRACT NO. 60C31				

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

**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-STAGING1A03.dgn	USER NAME = grol	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		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.

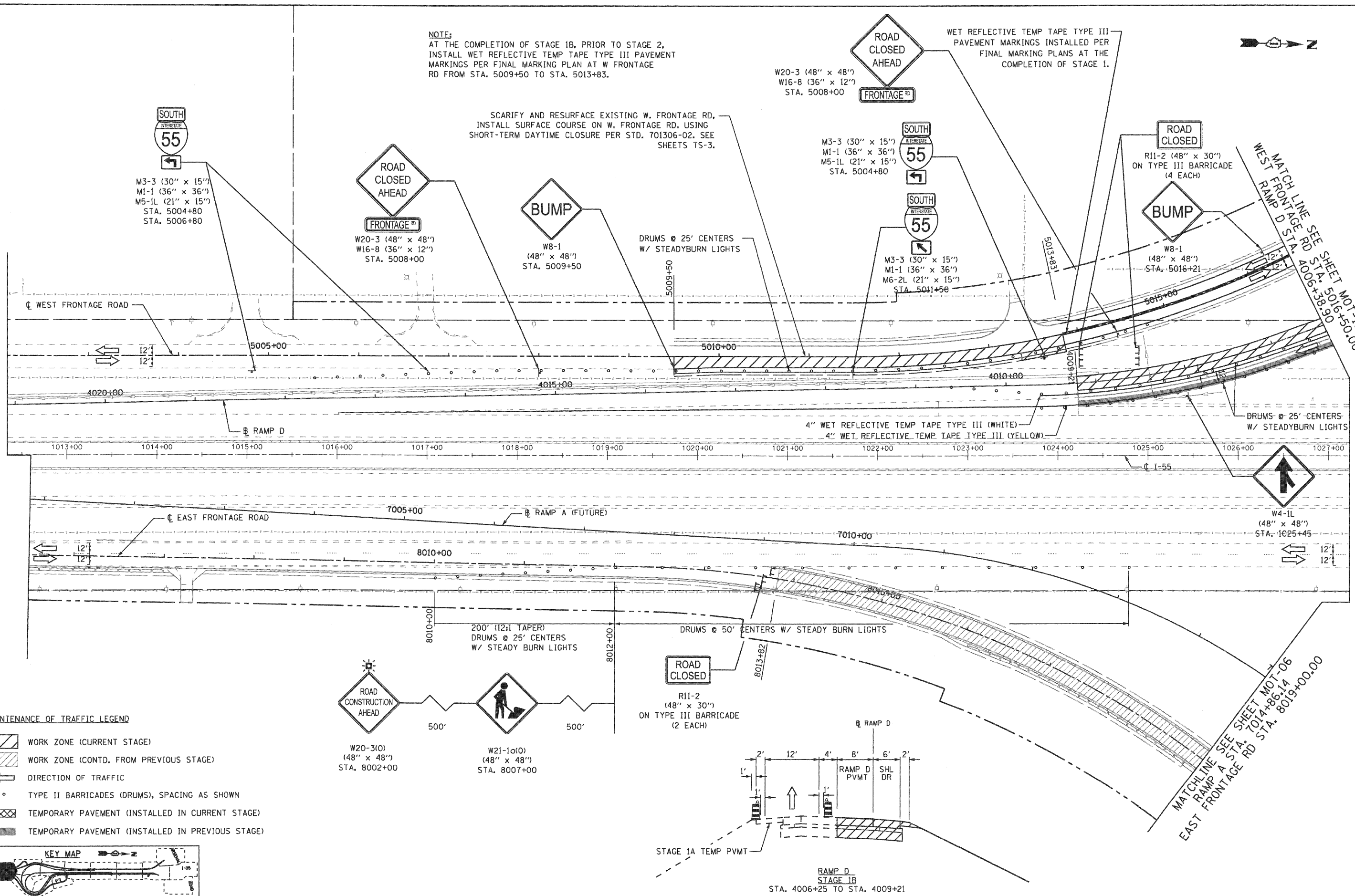
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	102
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

**FINAL**

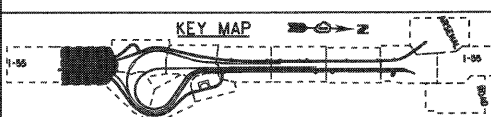
**NOTE:**  
 AT THE COMPLETION OF STAGE 1B, PRIOR TO STAGE 2,  
 INSTALL WET REFLECTIVE TEMP TAPE TYPE III  
 MARKINGS PER FINAL MARKING PLAN AT W FRONTAGE  
 RD FROM STA. 5009+50 TO STA. 5013+83.

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 = ...ND160C31-SHT-STAGING1802.dgn	USER NAME = grol	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -
PLOT SCALE = 1/50			
PLOT DATE = 12/16/2009			

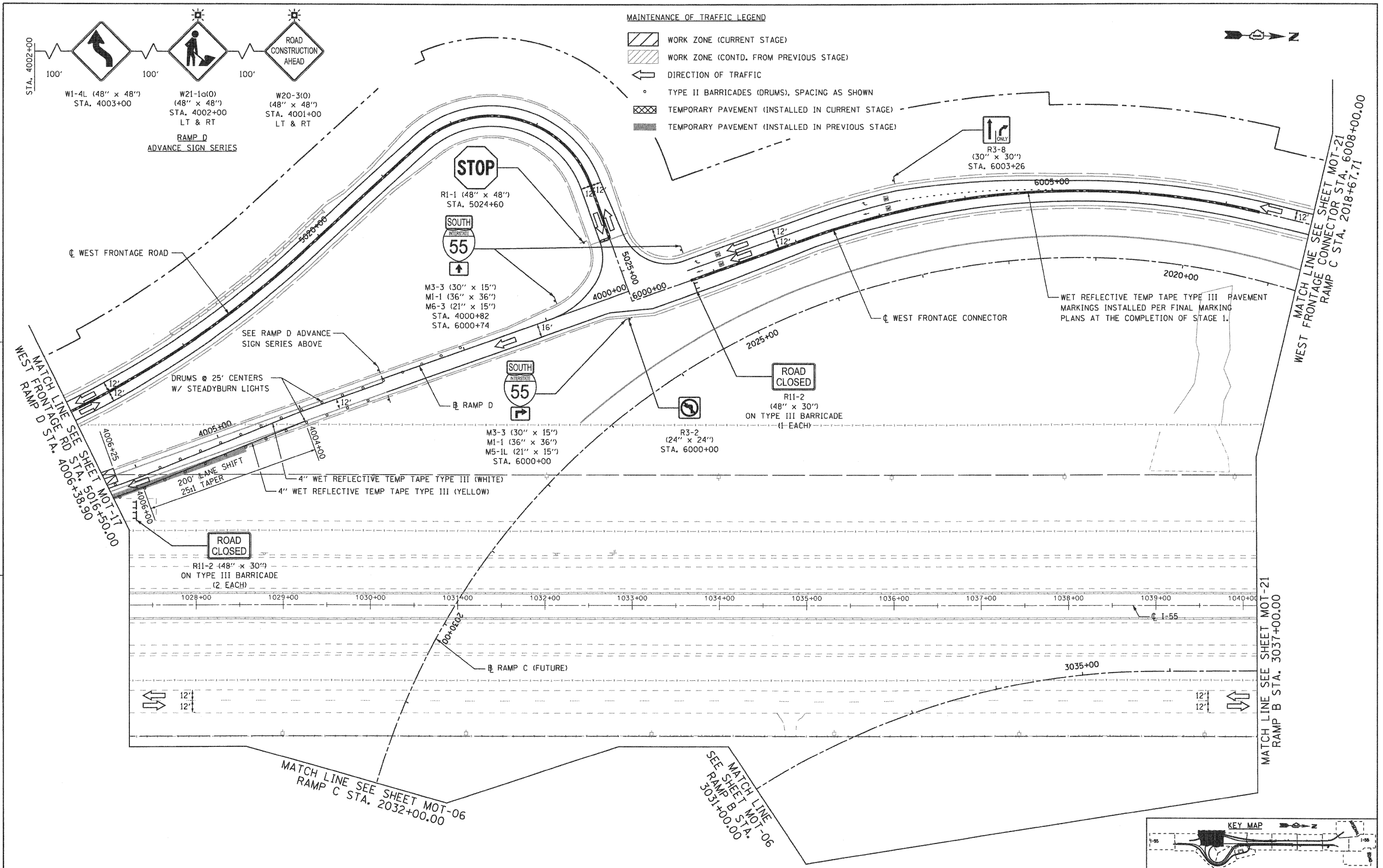
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 1B**

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

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

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



FILE NAME = ...ND160C31-SHT-STAGING1B03.dgn  
 USER NAME = gres  
 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**

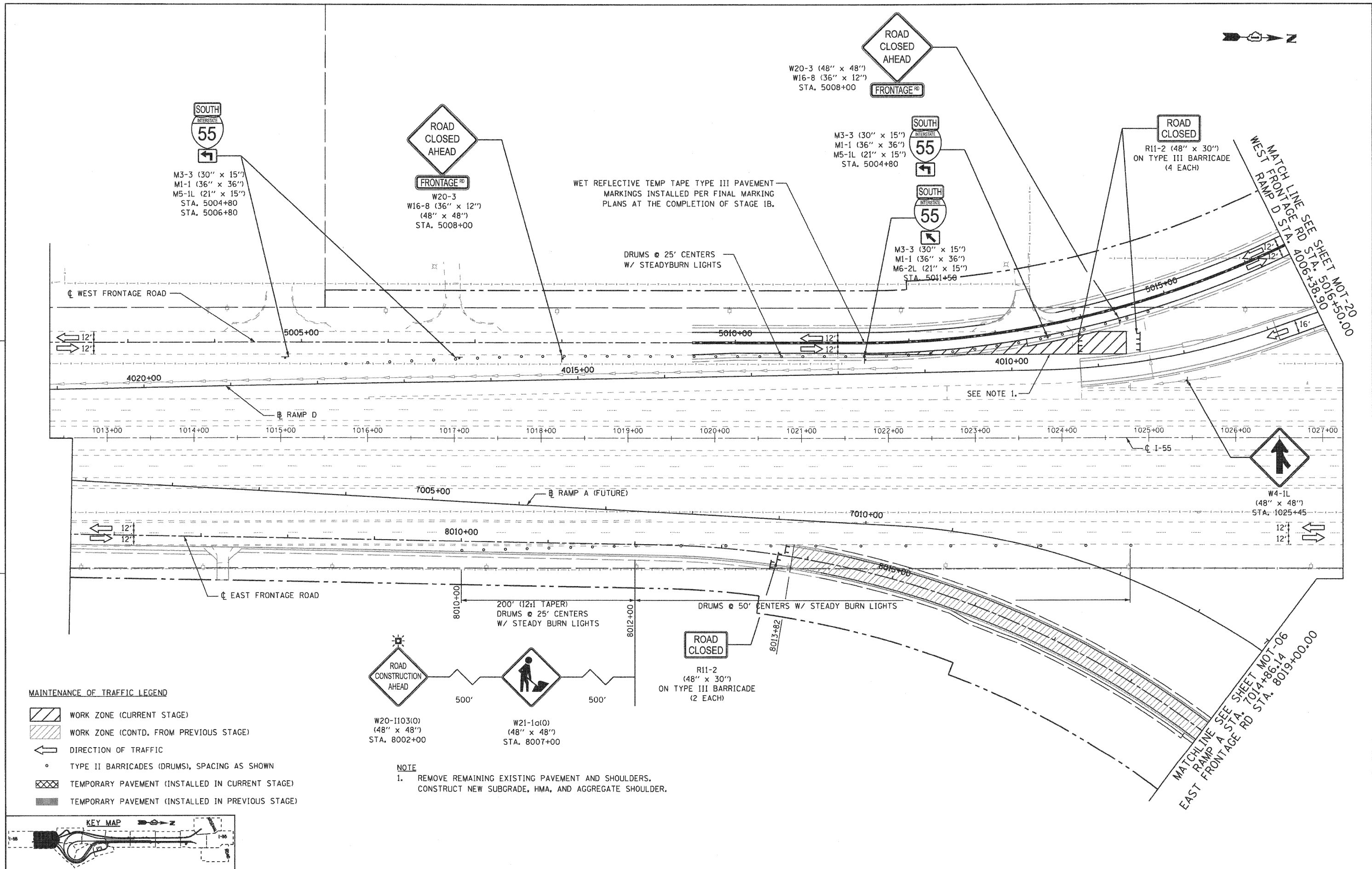
**MAINTENANCE OF TRAFFIC  
 STAGE 1B**

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

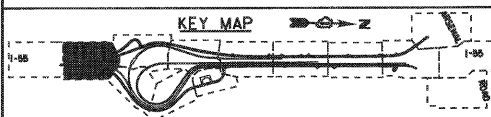
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	104
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	



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)

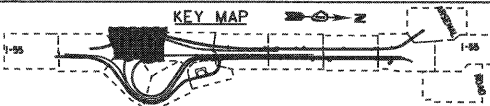
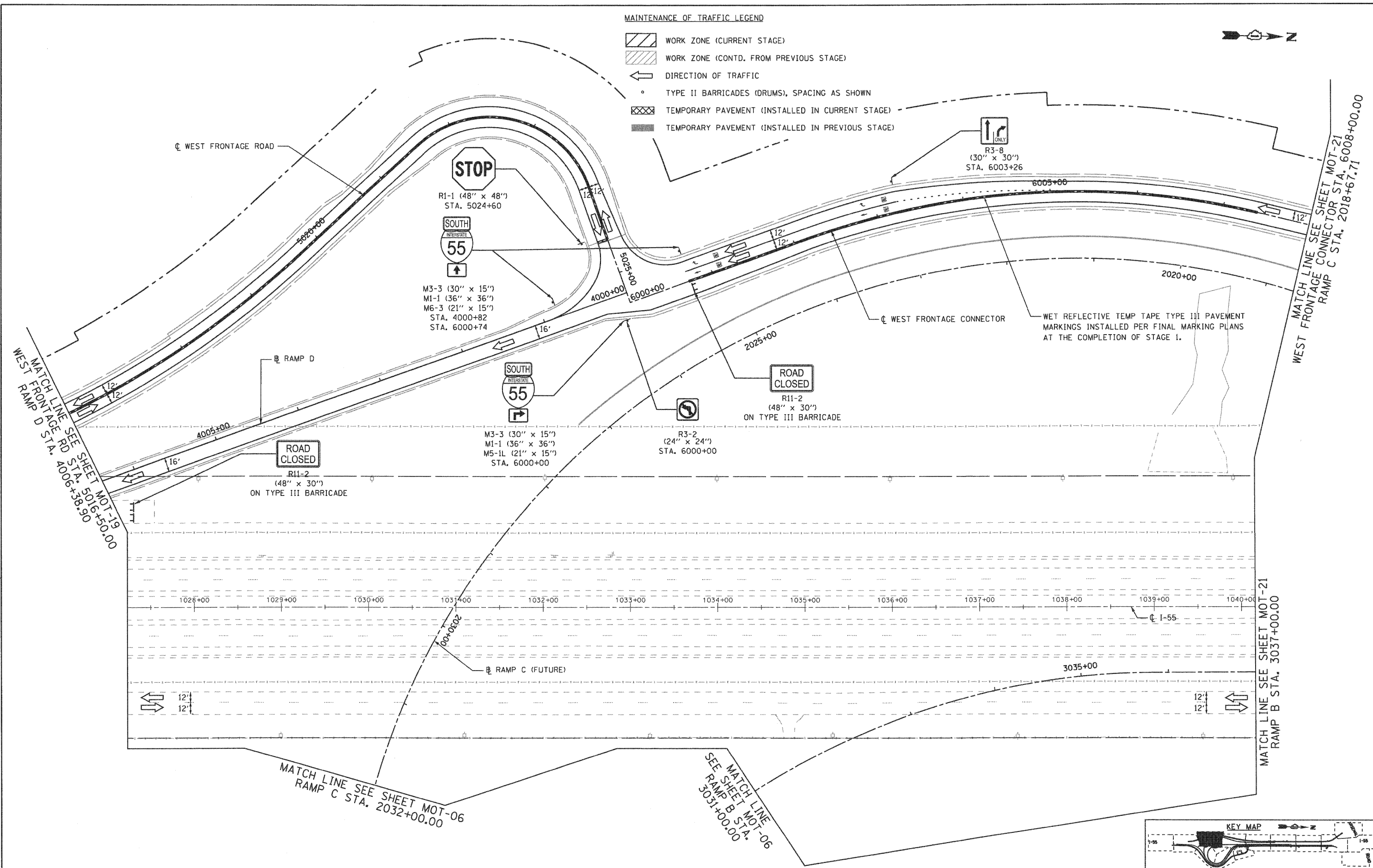


FILE NAME = ...ND160C31-SHT-STAGING202.dgn	USER NAME = gres	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 2</b>		F.A.I RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 105	
PLOT SCALE = 1/8"=1'-0"	CHECKED - RY	DRAWN - GR	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 8 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT DATE = 12/16/2009	DATE - 12/16/2009	CHECKED - RY	REVISED -									
		DATE - 12/16/2009	REVISED -									

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)



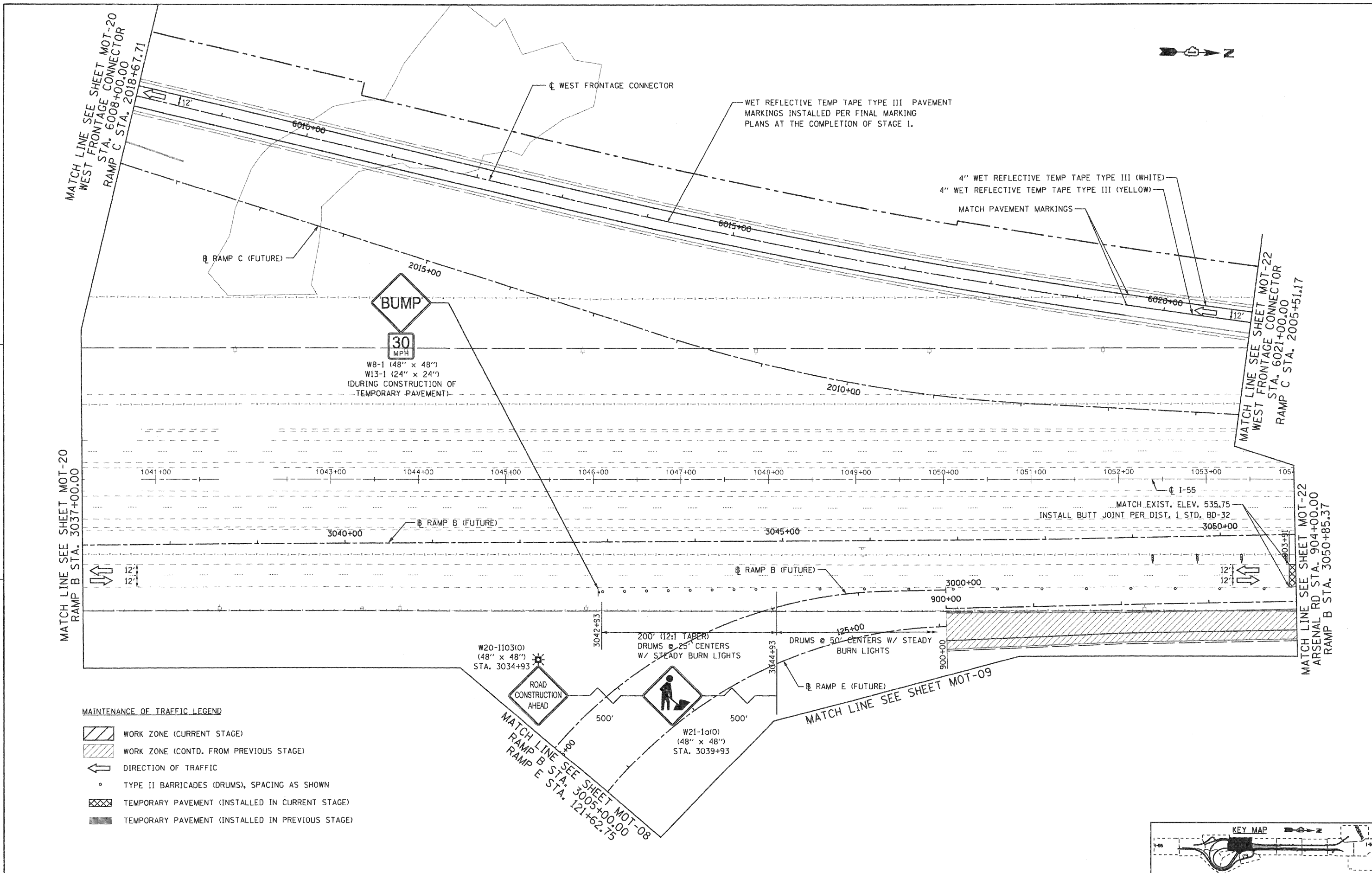
FILE NAME = ...ND160C31-SHT-STAGING203.dgn	USER NAME = grot	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 2**

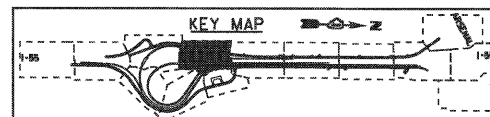
SCALE: 1"=50' SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)-3	WILL	524	106
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)



FILE NAME = ...ND160C31-SHT-STAGING205.dgn	USER NAME = gao	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**

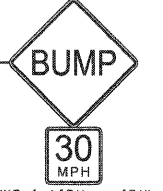
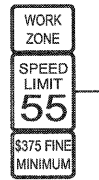
SCALE: 1"=50' SHEET NO. 3 OF 8 SHEETS STA. TO STA.

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	

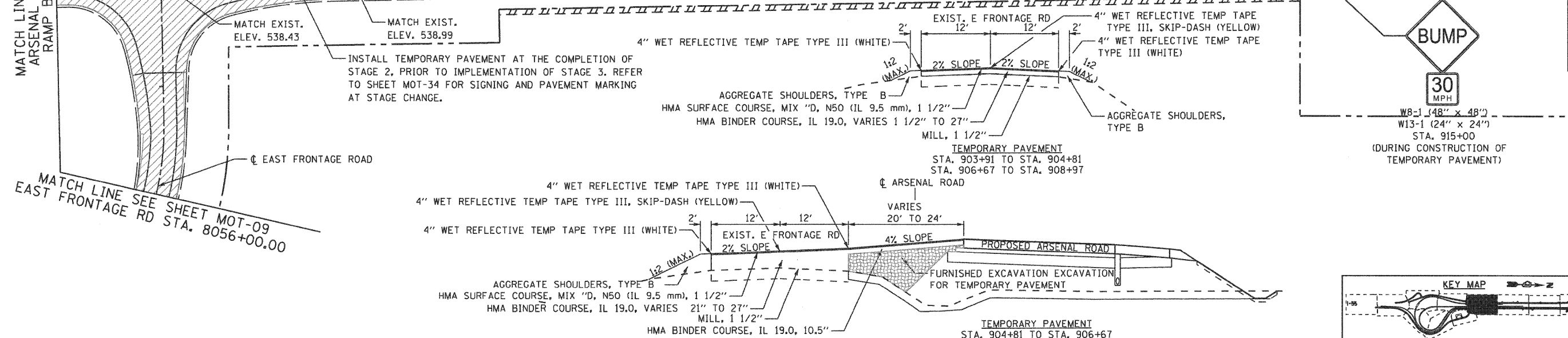
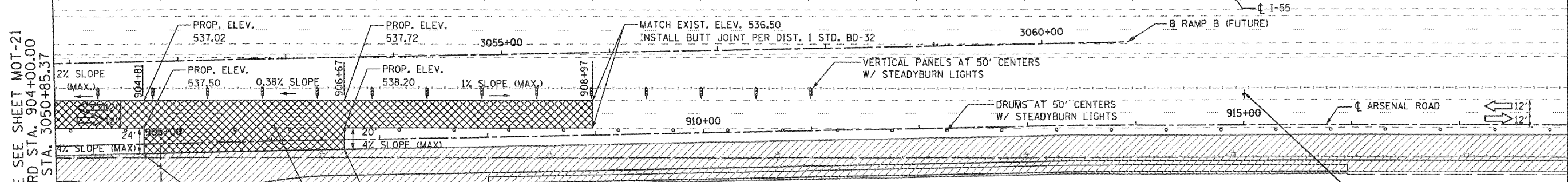
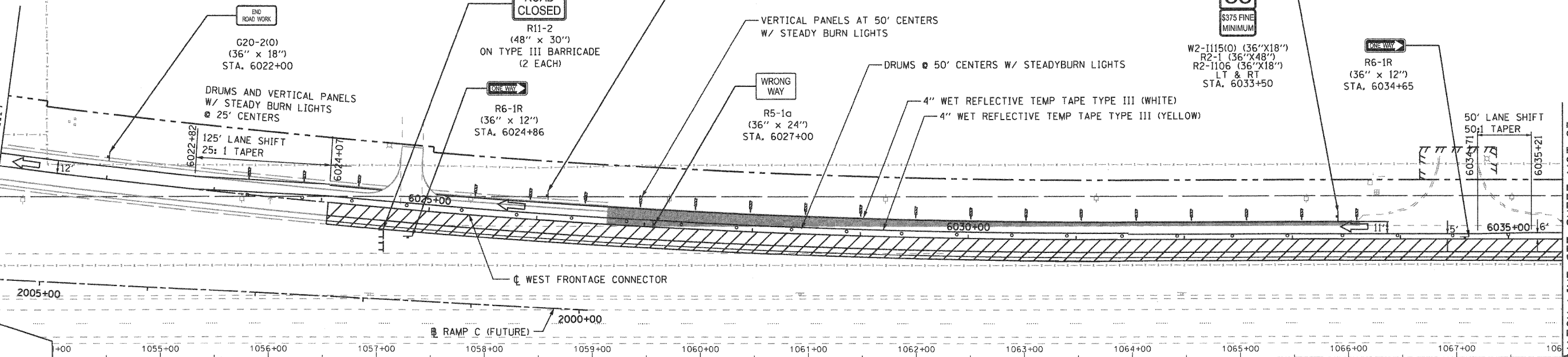
**FINAL**

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)



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



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



FILE NAME = ...ND160C31-SHT-STAGING208.dgn  
USER NAME = grom  
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. 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





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

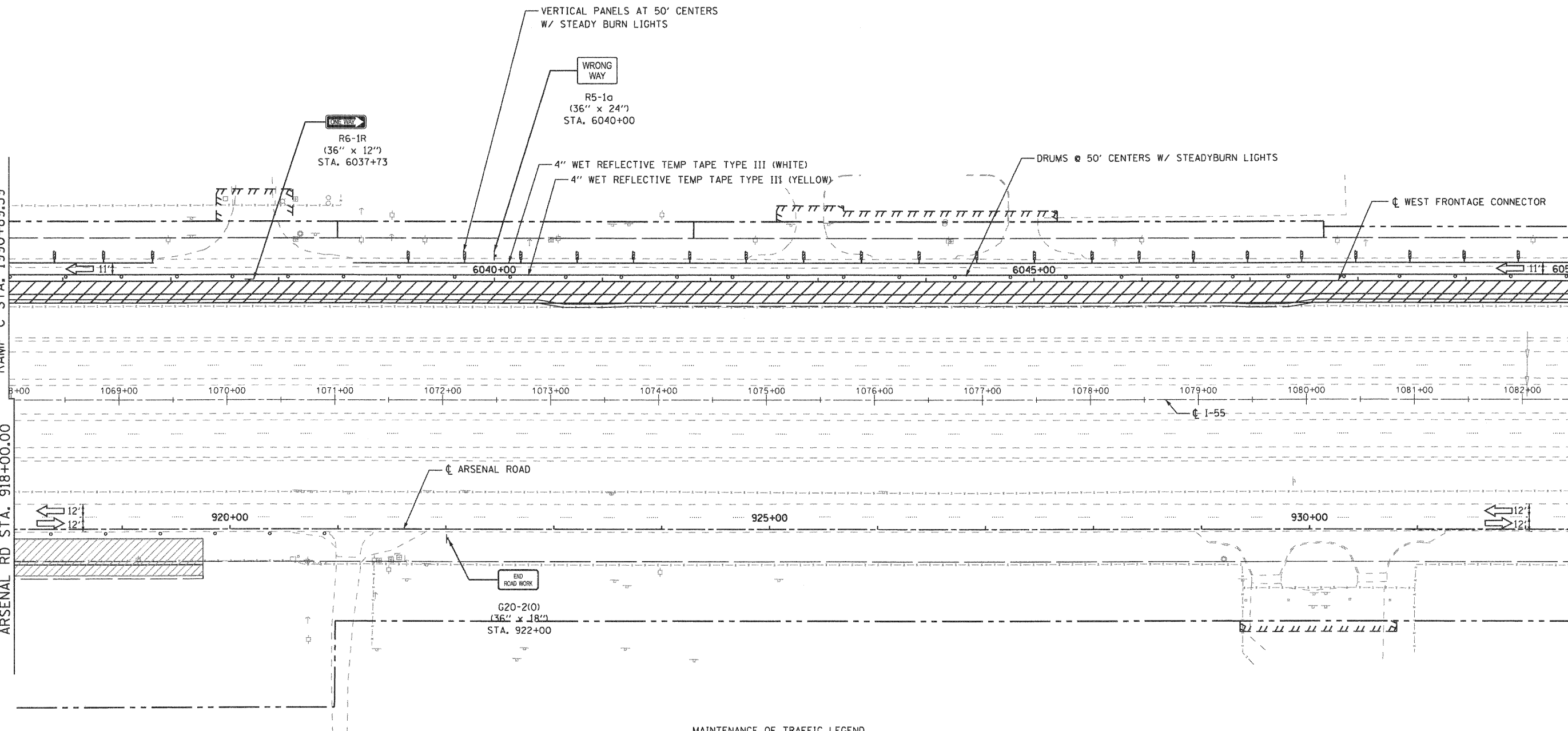


MATCH LINE SEE SHEET MOT-22  
WEST FRONTAGE CONNECTOR  
STA. 6035+50.00  
RAMP C STA. 1990+89.59

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

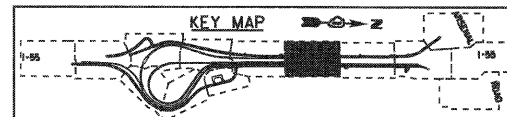
MATCH LINE SEE SHEET MOT-24  
WEST FRONTAGE CONNECTOR  
STA. 6050+00.00

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-STAGING2009.dgn

USER NAME = gra	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**

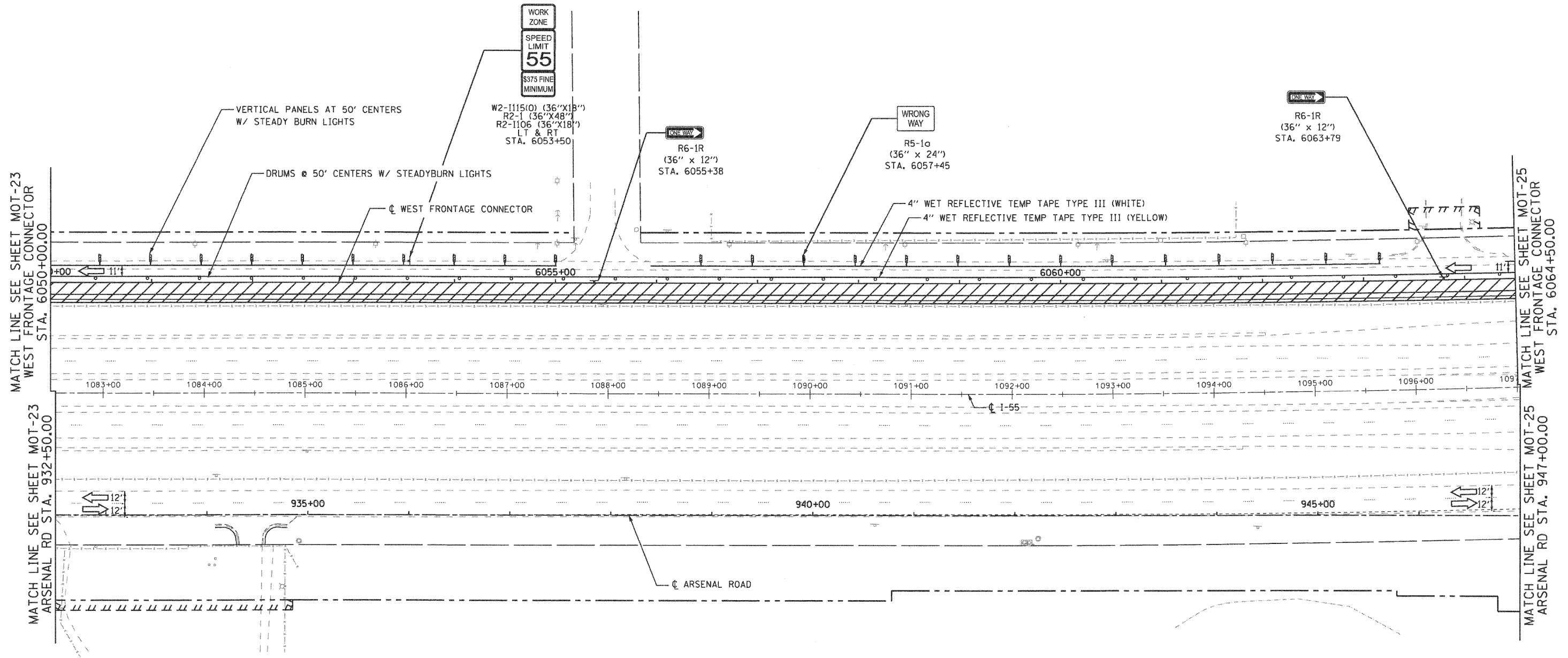
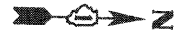
**MAINTENANCE OF TRAFFIC  
STAGE 2**

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**

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



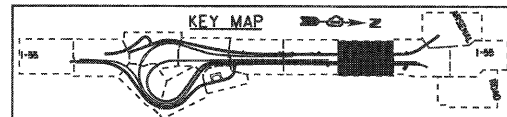
MATCH LINE SEE SHEET MOT-23  
WEST FRONTAGE CONNECTOR  
STA. 6050+00.00

MATCH LINE SEE SHEET MOT-23  
ARSENAL RD STA. 932+50.00

MATCH LINE SEE SHEET MOT-25  
WEST FRONTAGE CONNECTOR  
STA. 6064+50.00

MATCH LINE SEE SHEET MOT-25  
ARSENAL RD STA. 947+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)



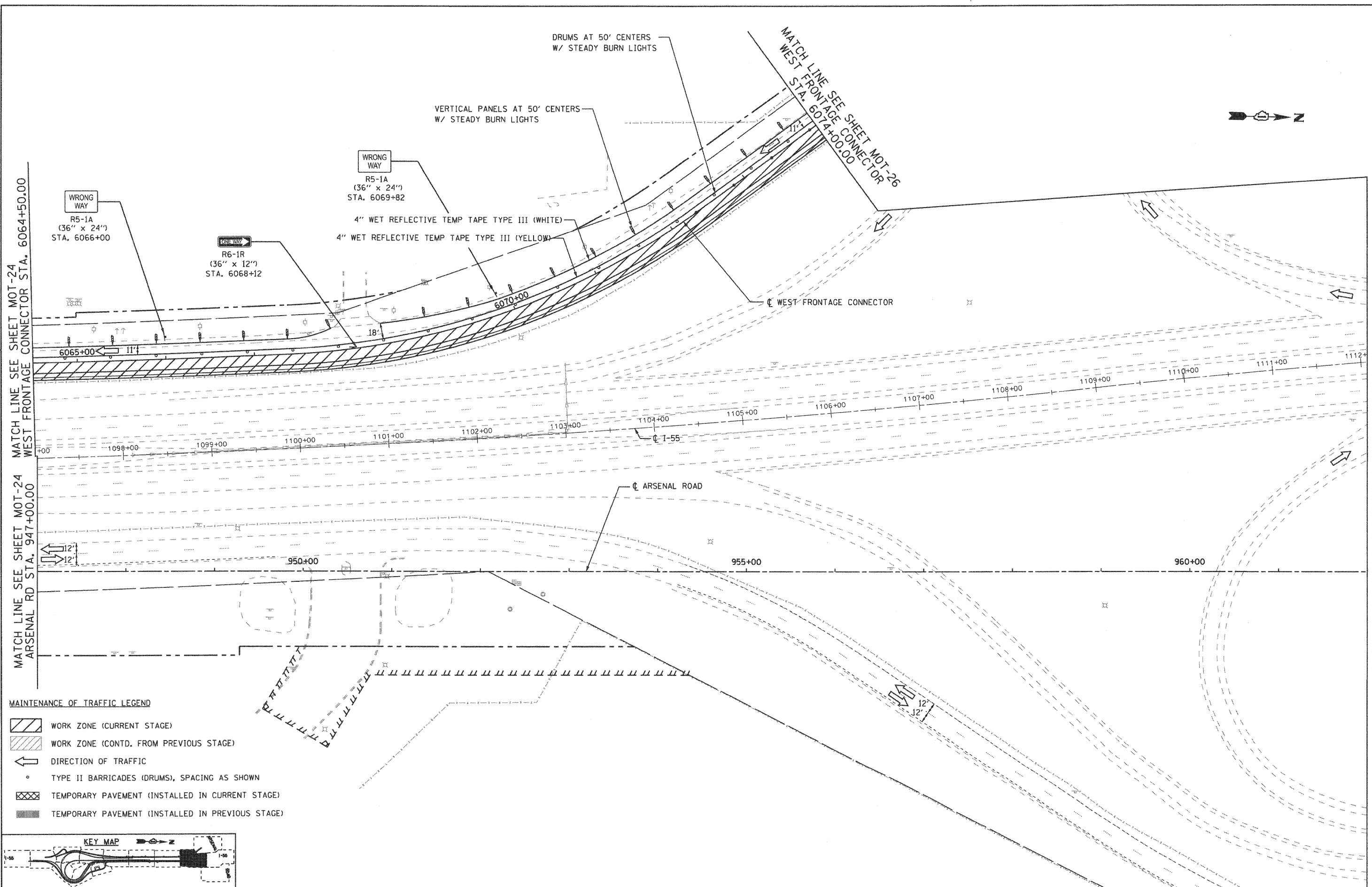
FILE NAME = ...ND160C31-SHT-STAGING218.dgn	USER NAME = gra	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 2</b>			F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 110
	PLOT SCALE = 1/8"=1'-0"	CHECKED - RY	REVISED -		SCALE: 1"=50'	SHEET NO. 6 OF 8 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							

FINAL

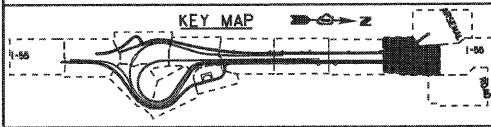
**EJM ENGINEERING, INC.**  
 411 South Wells Street Suite 800  
 Chicago, Illinois 60607



MATCH LINE SEE SHEET MOT-24 WEST FRONTAGE CONNECTOR STA. 6064+50.00  
 MATCH LINE SEE SHEET MOT-24 ARSENAL RD STA. 947+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 = ...D160C31-SHT-STAGING21.dgn

USER NAME = gra1	DESIGNED - GR	REVISED -
PLOT SCALE = 1/8"=1'-0"	DRAWN - GR	REVISED -
PLOT DATE = 12/16/2009	CHECKED - RY	REVISED -
	DATE - 12/18/2009	REVISED -

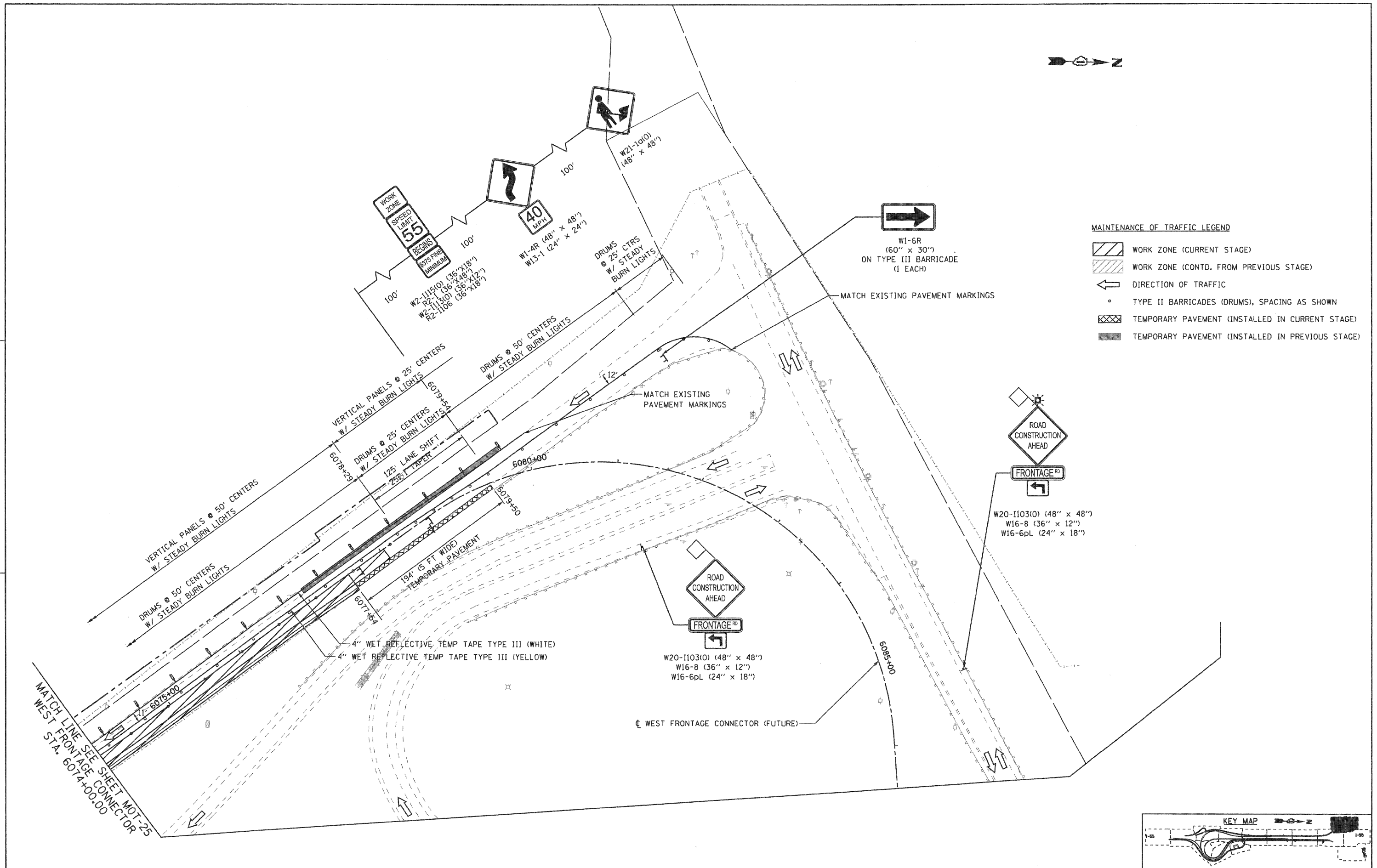
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 2**

SCALE: 1"=50' SHEET NO. 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

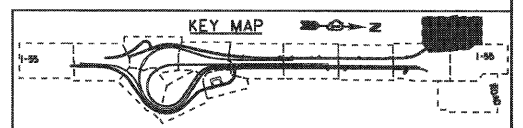


**MAINTENANCE OF TRAFFIC LEGEND**

- 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)

ROAD CONSTRUCTION AHEAD  
 FRONTAGE RD  
 W20-1103(O) (48" x 48")  
 W16-8 (36" x 12")  
 W16-6PL (24" x 18")

ROAD CONSTRUCTION AHEAD  
 FRONTAGE RD  
 W20-1103(O) (48" x 48")  
 W16-8 (36" x 12")  
 W16-6PL (24" x 18")



FILE NAME =	USER NAME = gra	DESIGNED - GR	REVISED -
...\\D160C31-SHT-STAGING212.dgn		DRAWN - GR	REVISED -
	PLOT SCALE = 1/8"=1'-0"	CHECKED - RY	REVISED -
	PLOT DATE = 12/18/2009	DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

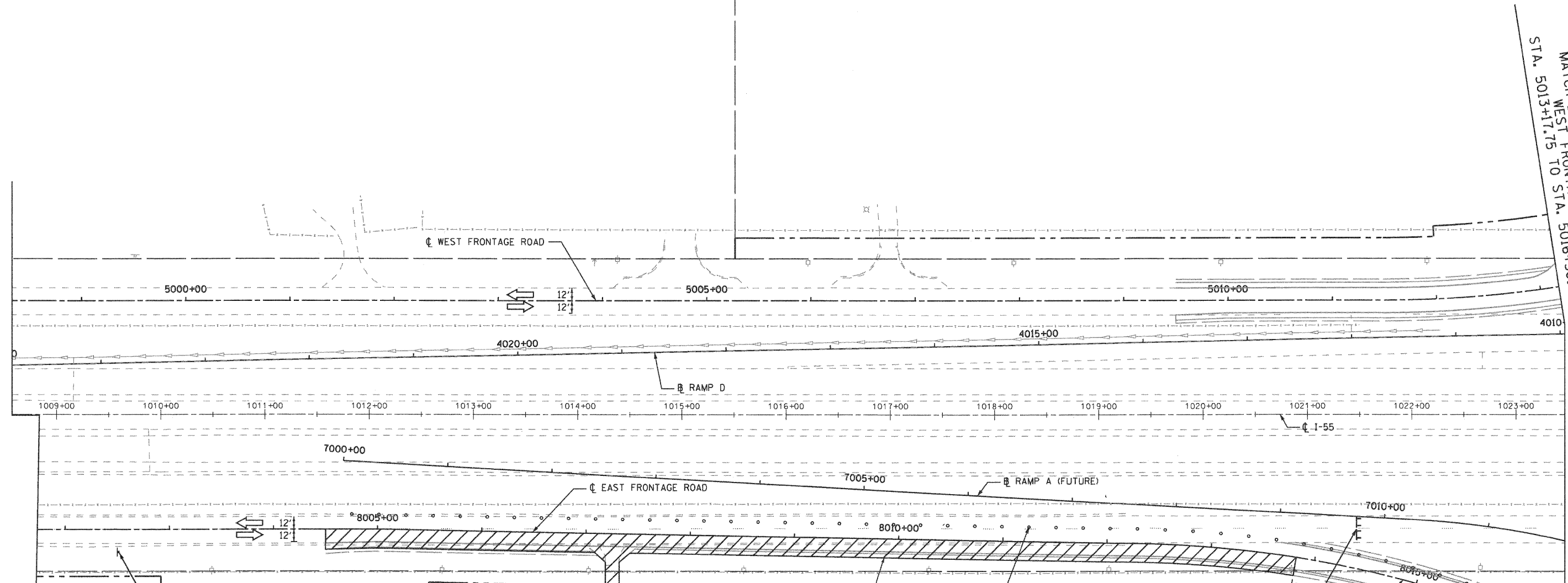
**MAINTENANCE OF TRAFFIC  
 STAGE 2**

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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

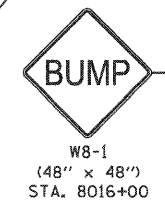
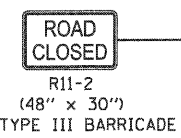
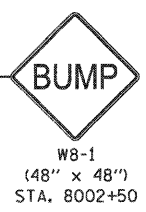


**EJM ENGINEERING, INC.**  
411 South Wells Street Suite 800  
Chicago, Illinois 60607



MATCH LINE SEE SHEET MOT-20  
WEST FRONTAGE RD  
STA. 5013+17.75 TO STA. 5016+50.00

MATCHLINE SEE SHEET MOT-30  
EAST FRONTAGE RD  
STA. 8016+00.00 TO STA. 8019+00.00



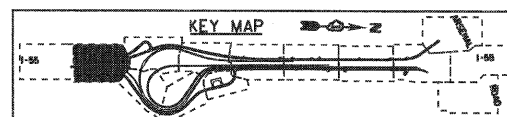
SCARIFY AND RESURFACE EXISTING E. FRONTAGE RD.  
INSTALL SURFACE COURSE ON E. FRONTAGE RD. USING  
SHORT-TERM DAYTIME CLOSURE PER STD. 701306-02. SEE  
SHEET TS-3.

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-STAGING2402.dgn	USER NAME = gre	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

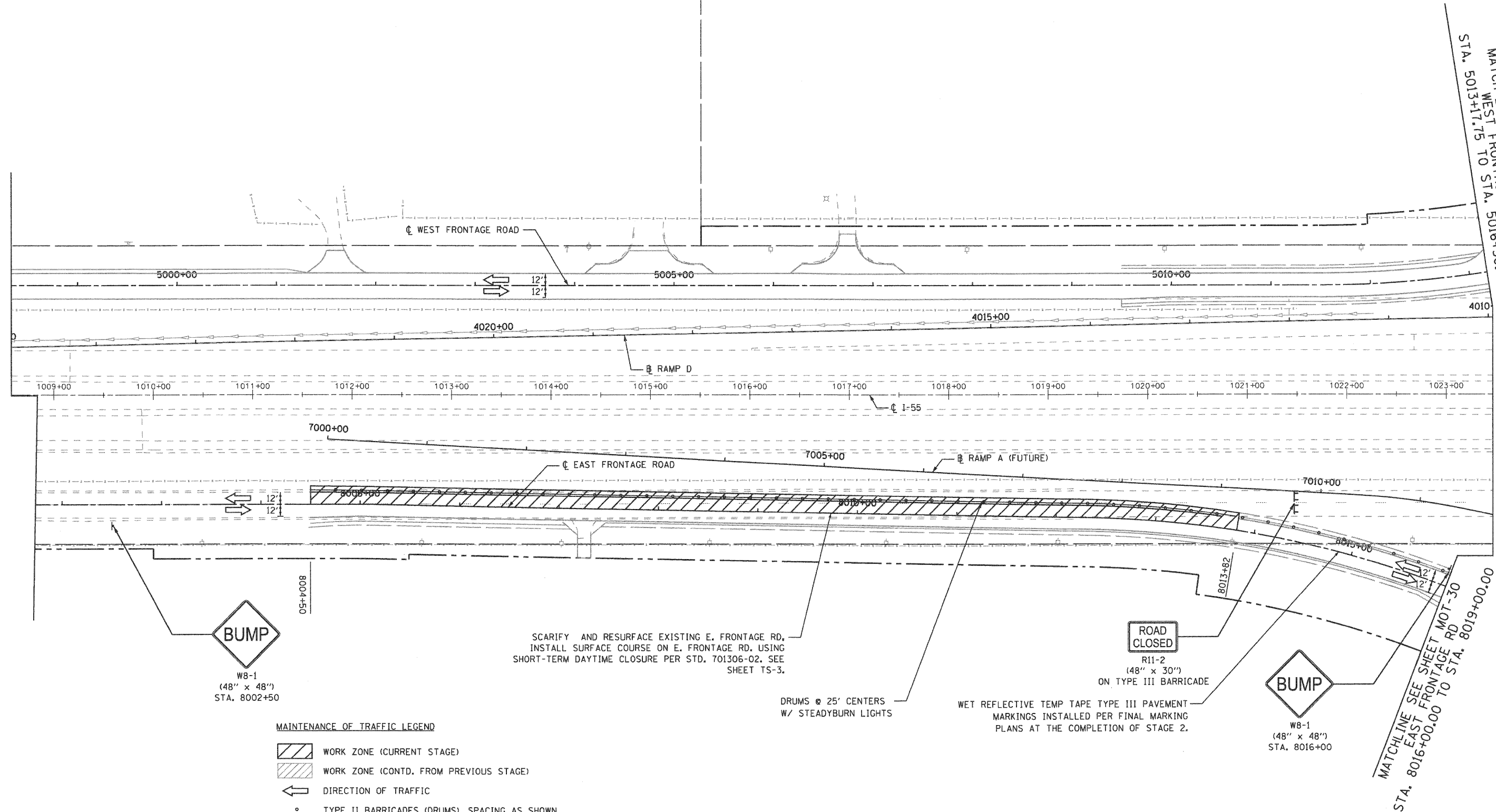
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 2A**

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

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

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



MATCH LINE SEE SHEET MOT-20  
WEST FRONTAGE RD  
STA. 5013+17.75 TO STA. 5016+50.00

MATCHLINE SEE SHEET MOT-30  
EAST FRONTAGE RD  
STA. 8016+00.00 TO STA. 8019+00.00

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

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

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

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.

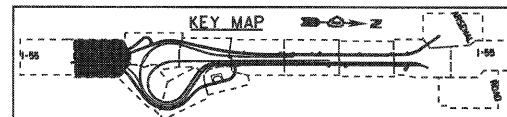
DRUMS @ 25' CENTERS  
W/ STEADYBURN LIGHTS

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

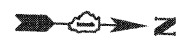
**MAINTENANCE OF TRAFFIC LEGEND**

- 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)

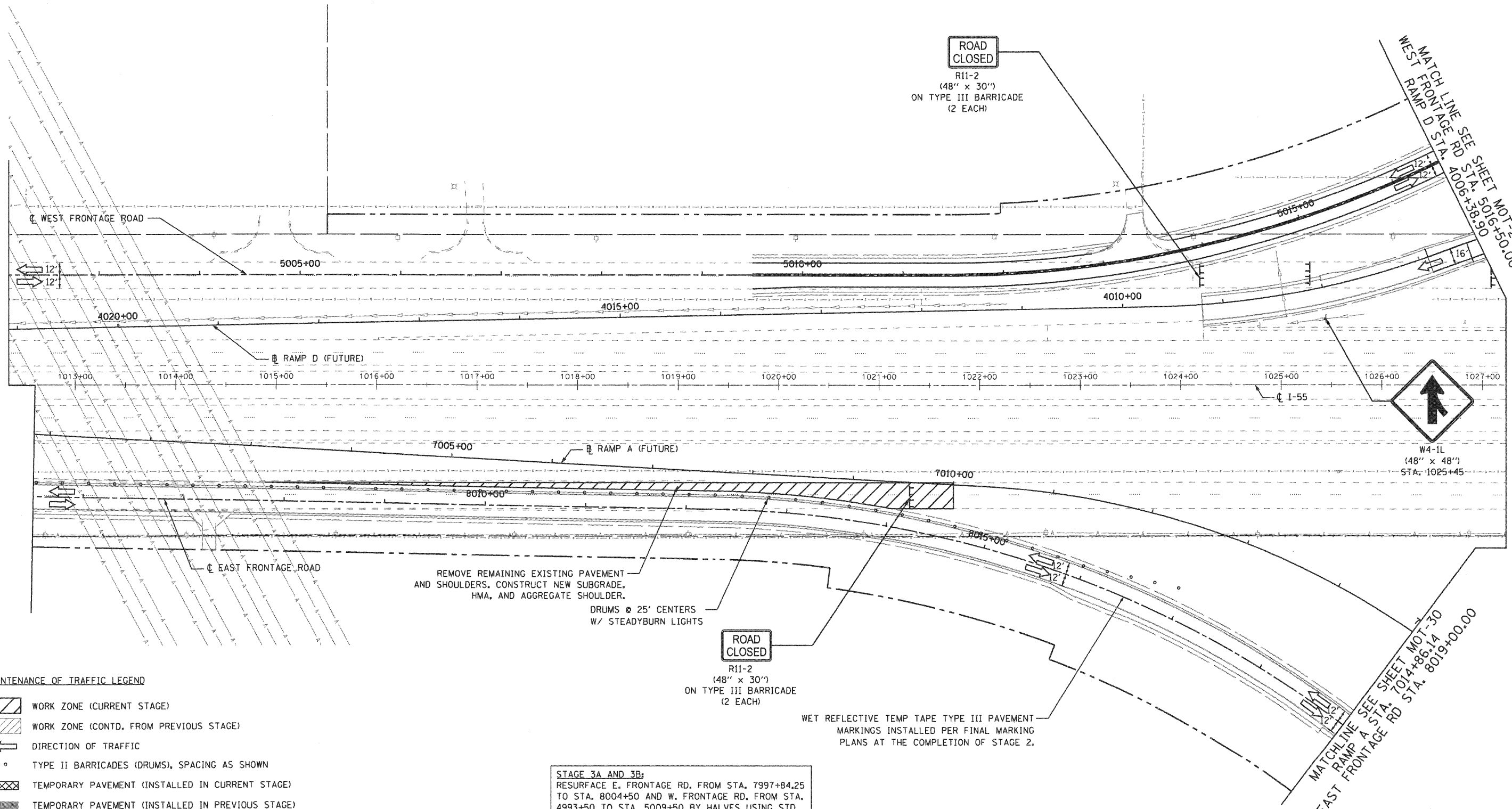
**NOTE:**  
AT THE COMPLETION OF STAGE 2B, PRIOR TO STAGE 3, INSTALL  
WET REFLECTIVE TEMP TAPE TYPE III PAVEMENT MARKINGS PER  
FINAL MARKING PLAN AT W FRONTAGE RD FROM STA. 8004+50  
TO STA. 8013+82..



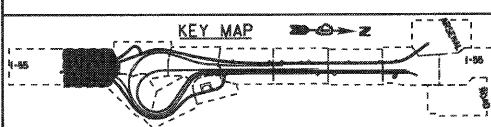
FILE NAME = ...ND160C31-SHT-STAGING2B02.dgn	USER NAME = gres	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 2B</b>			F.A.I RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 114
	PLOT SCALE = 1:50	CHECKED - RY	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 1 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							
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-STAGING302.dgn	USER NAME = gres	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

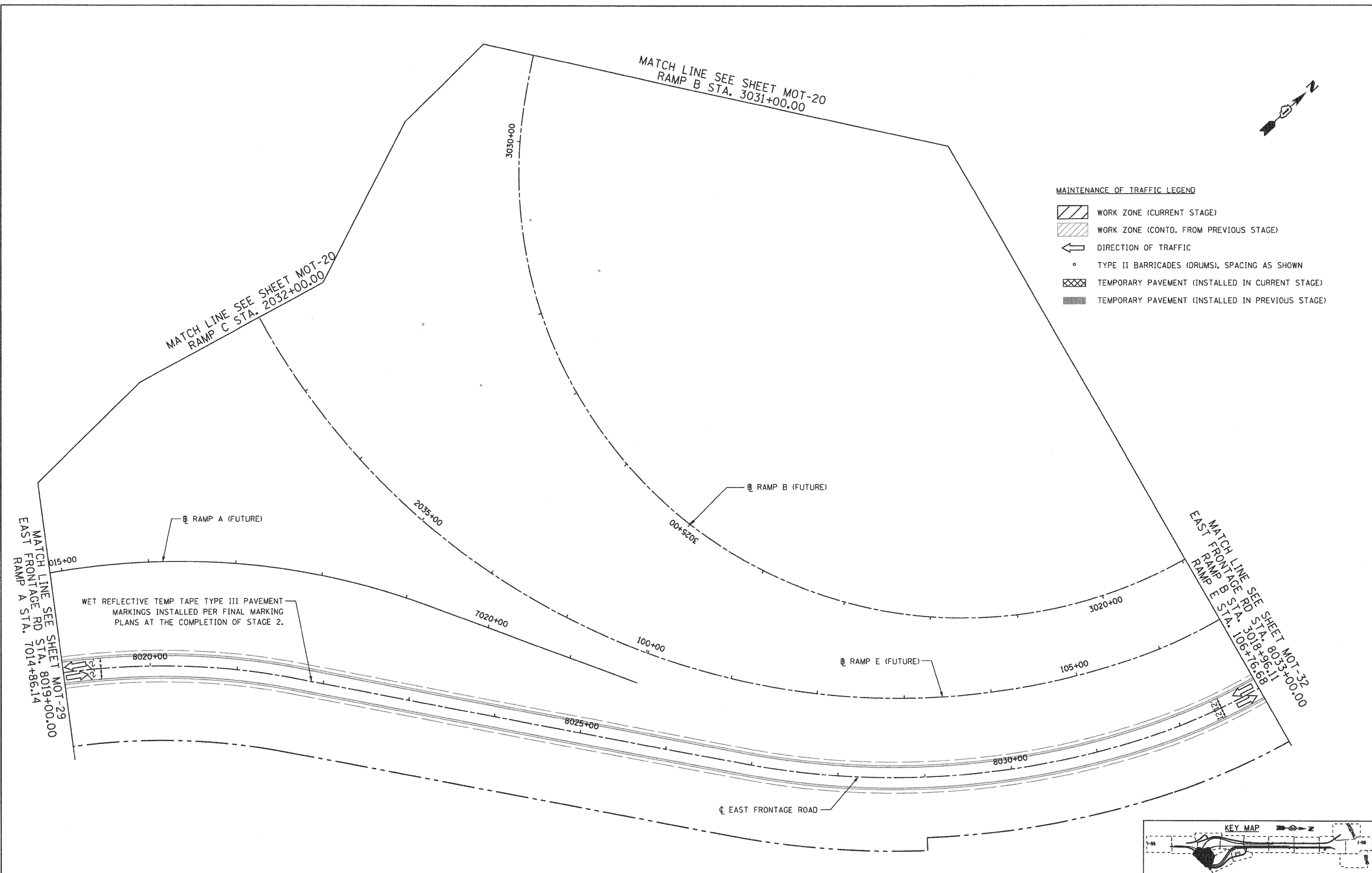
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 3**

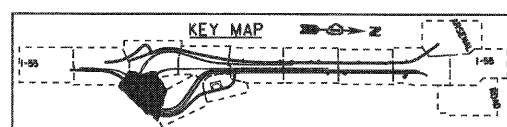
SCALE: 1"=50' SHEET NO. 1 OF 10 SHEETS STA. TO STA.

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

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

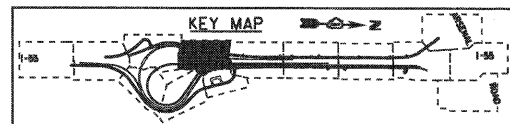
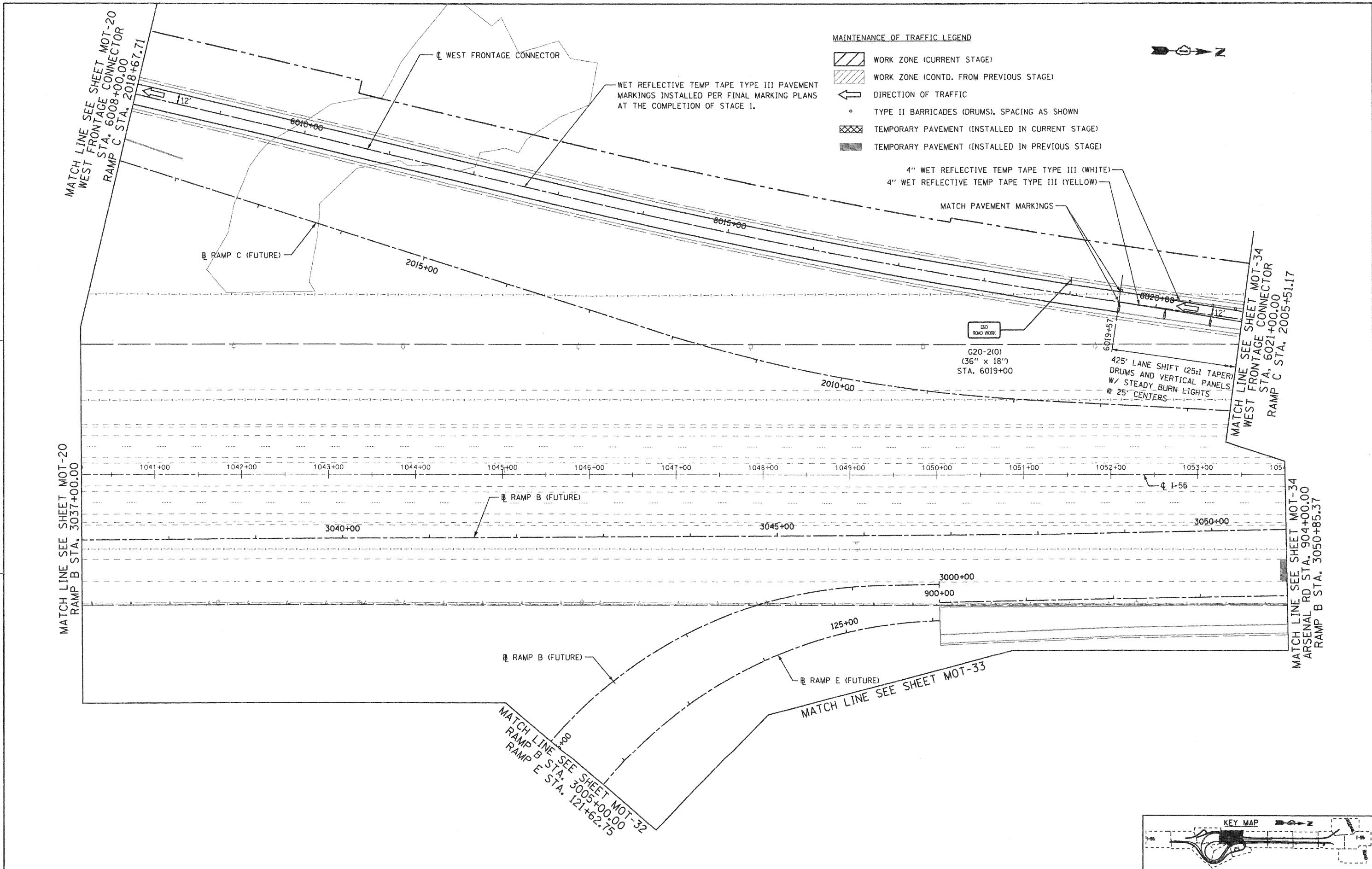


- MAINTENANCE OF TRAFFIC LEGEND**
- WORK ZONE (CURRENT STAGE)
  - WORK ZONE (CONTD. FROM PREVIOUS STAGE)
  - DIRECTION OF TRAFFIC
  - TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
  - TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
  - TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



FILE NAME = ...ND160C31-SHT-STAGING304.dgn	USER NAME = gra	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 3</b>	F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 116	
PLOT SCALE = 1:500	CHECKED - RY	REVISED -	SCALE: 1"=50'			SHEET NO. 2 OF 10 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -									
CONTRACT NO. 60C31											

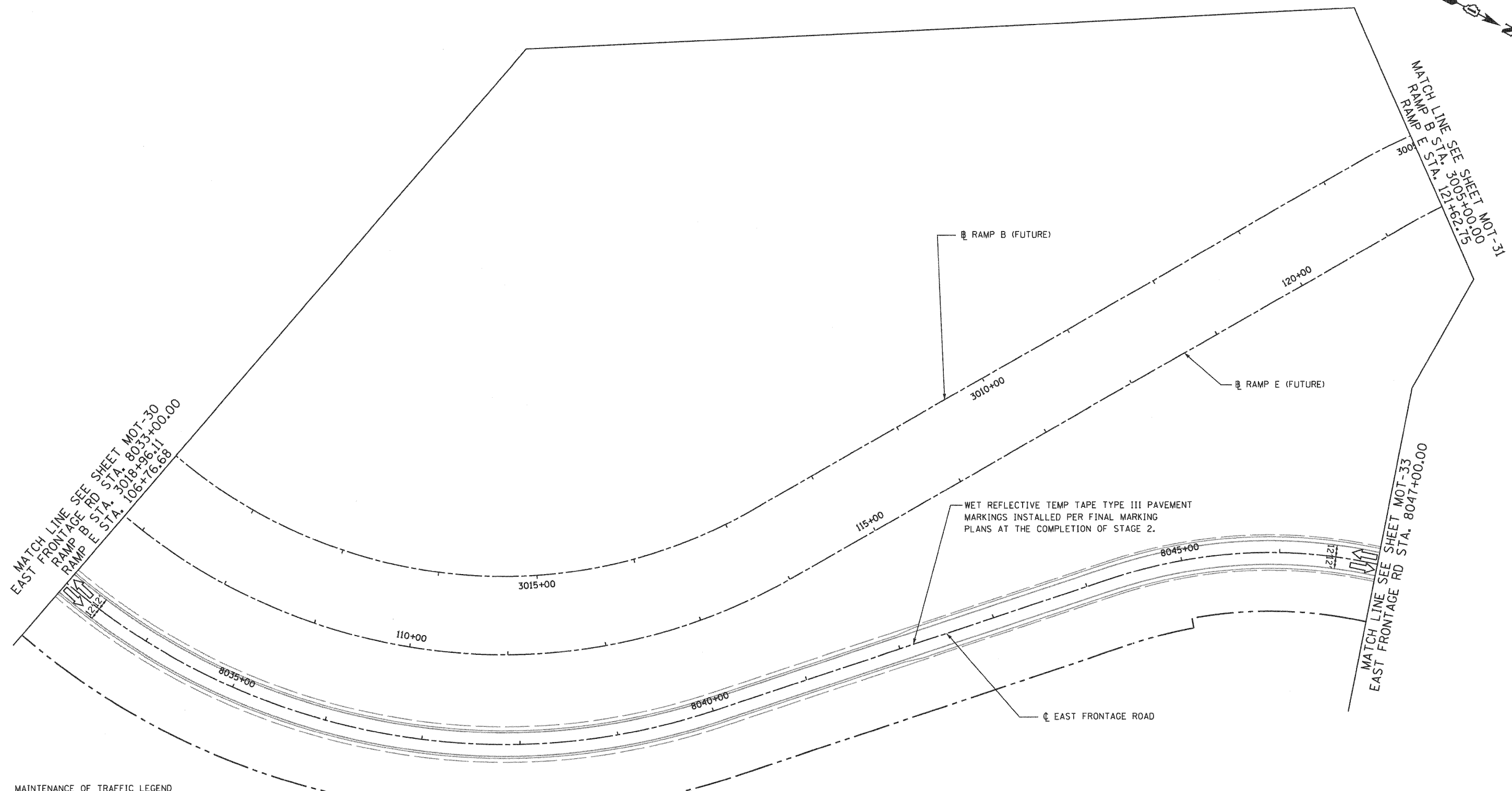




FILE NAME = ...ND160C31-SHT-STAGING3005.dgn	USER NAME = gao	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 3</b>			F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 117
	PLOT SCALE = 1/8"=1'-0"	DRAWN - GR	REVISED -		SCALE: 1"=50'	SHEET NO. 3 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 -									

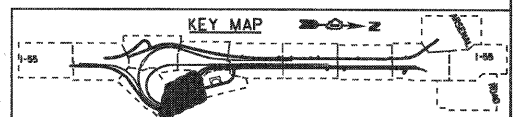
MATCH LINE SEE SHEET MOT-30  
 EAST FRONTAGE RD STA. 3018+96.11  
 RAMP B STA. 8033+00.00  
 RAMP E STA. 106+76.68

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



**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)



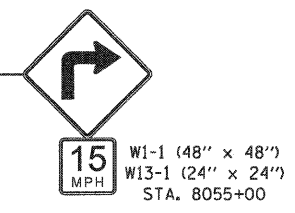
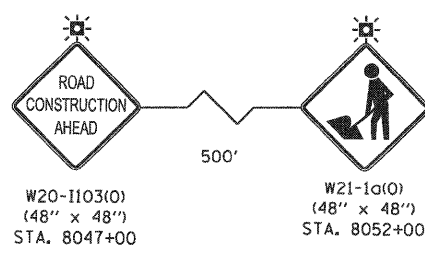
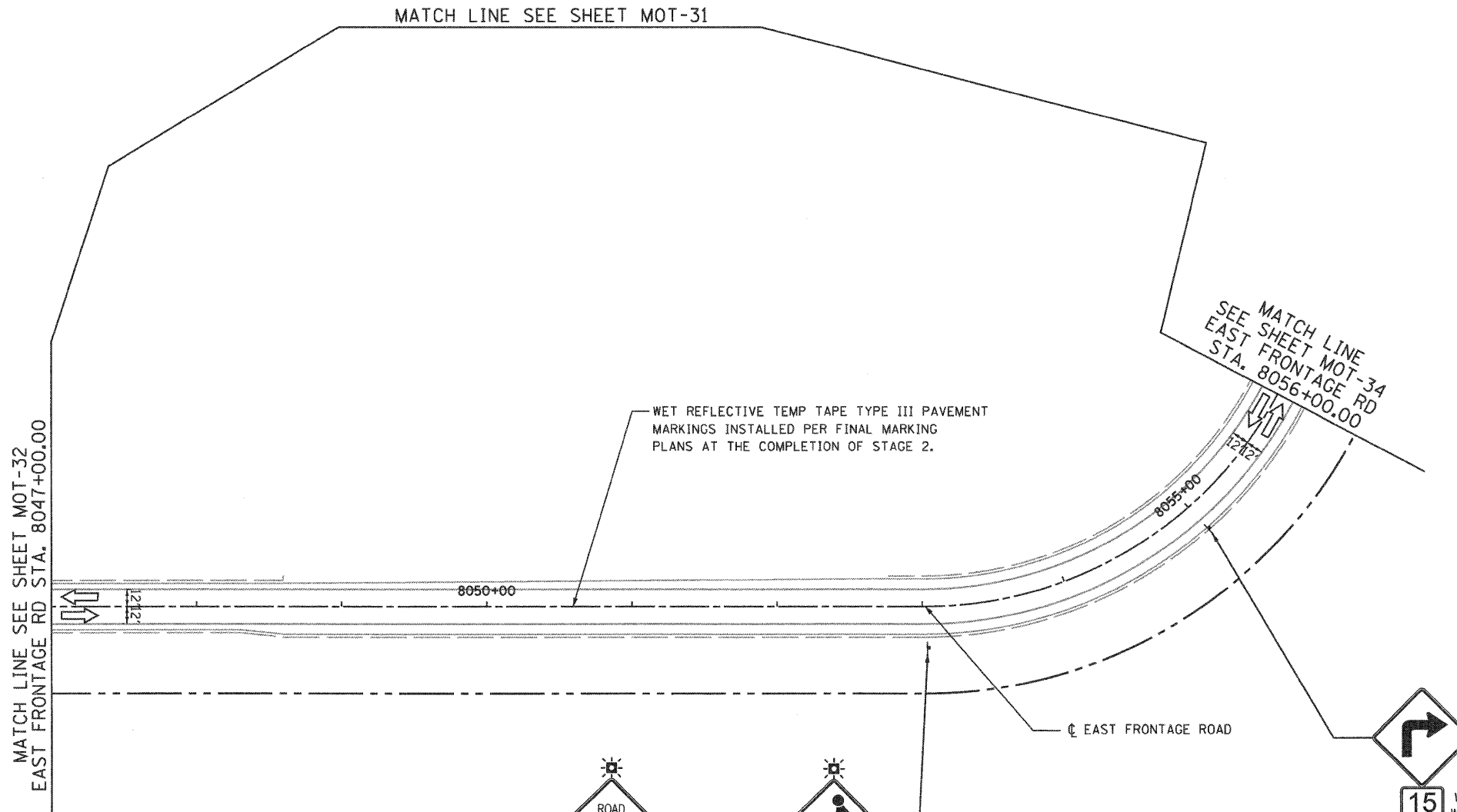
FILE NAME = ...\\D160C31-SHT-STAGING306.dgn	USER NAME = gres	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
	PLOT SCALE = 1:50	CHECKED - RY	REVISED -
	PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

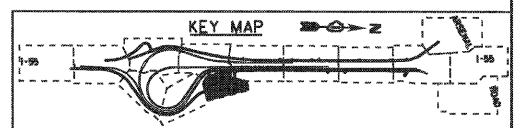
**MAINTENANCE OF TRAFFIC  
 STAGE 3**

SCALE: 1"=50' SHEET NO. 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	



- 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)



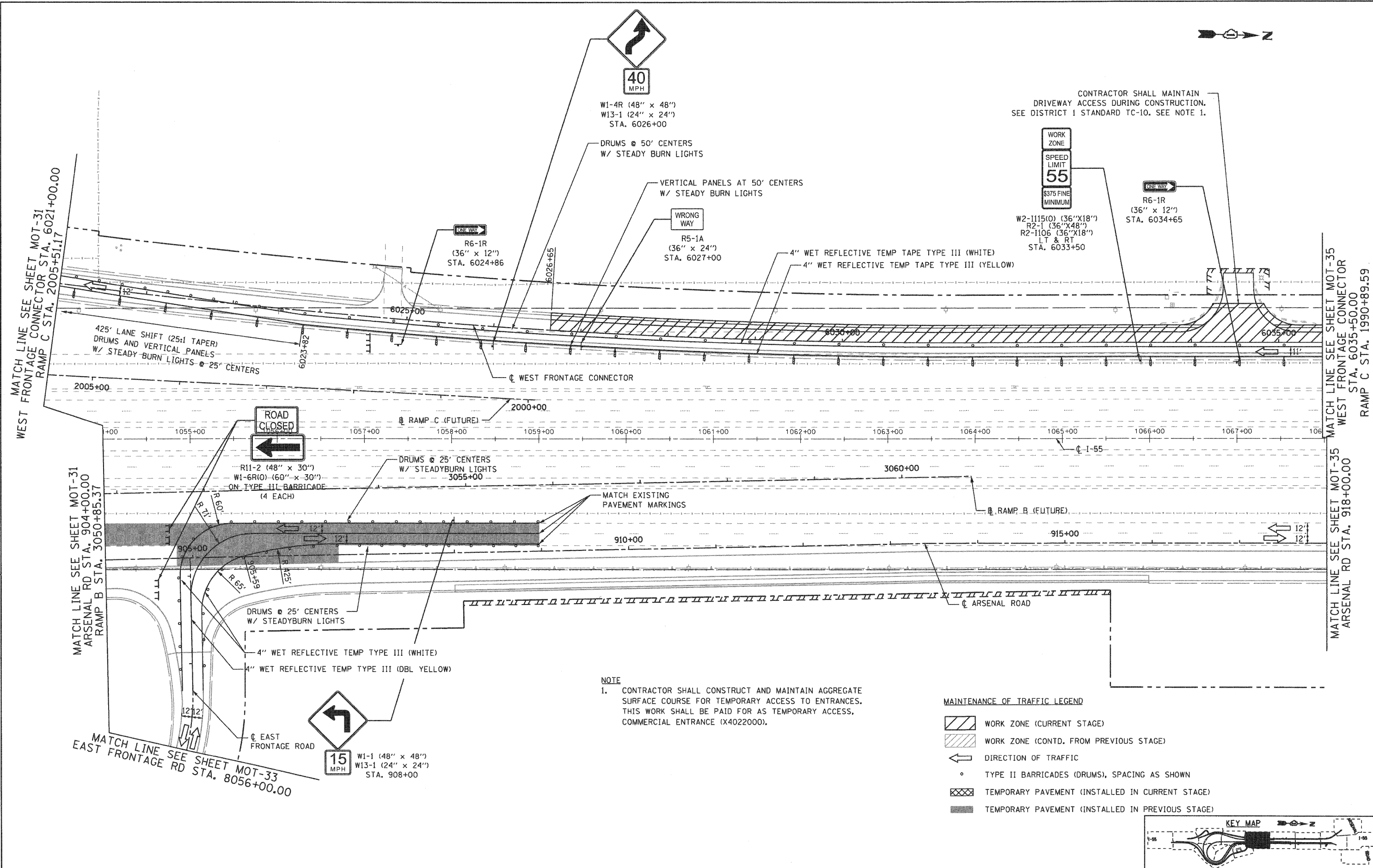
FILE NAME = ...\\DI60C31-SHT-STAGING307.dgn	USER NAME = gres	DESIGNED - GR	REVISED -
		DRAWN - GR	REVISED -
		CHECKED - RY	REVISED -
		DATE - 12/18/2009	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
 STAGE 3**

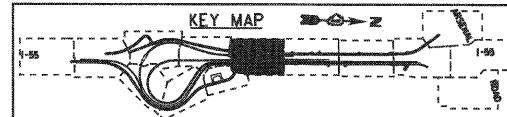
SCALE: 1"=50' SHEET NO. 5 OF 10 SHEETS STA. TO STA.

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	



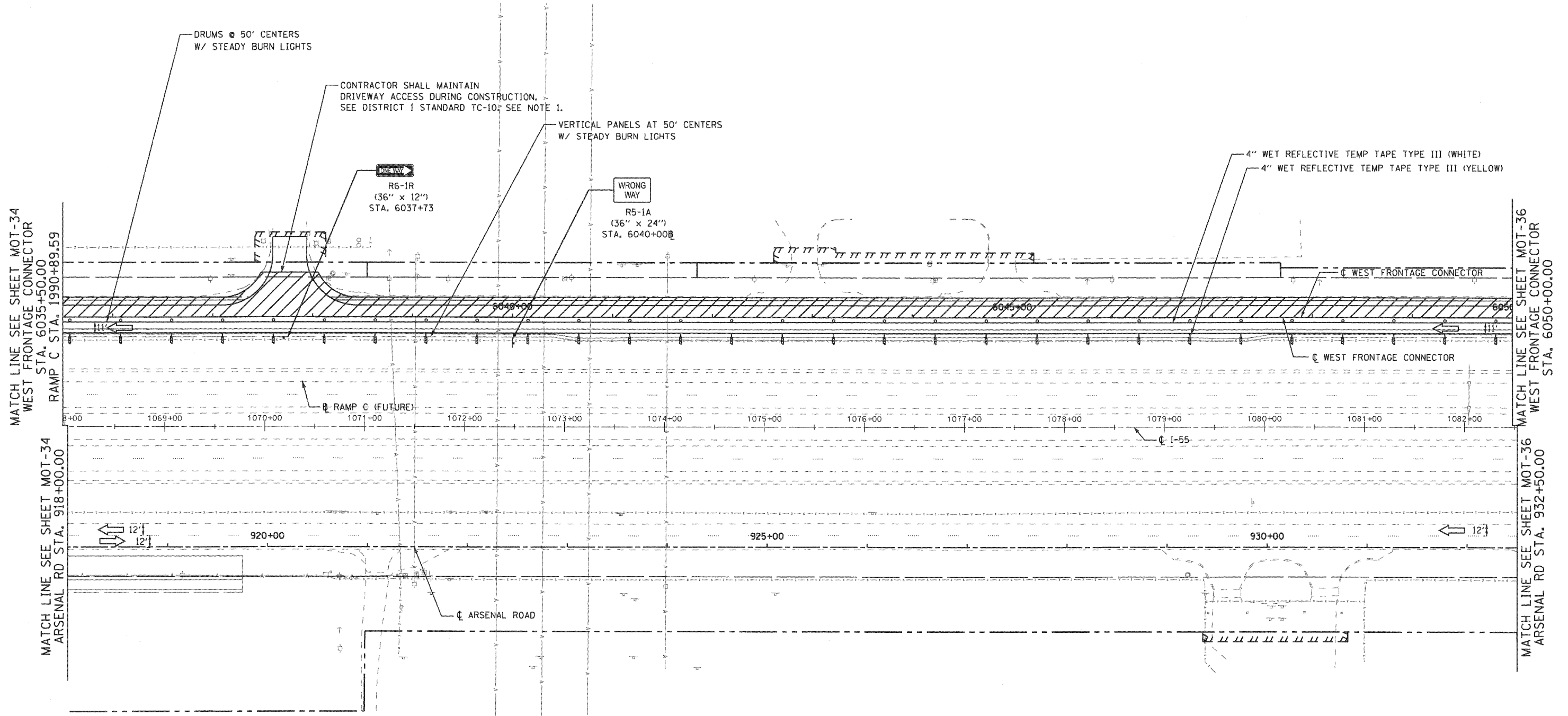
**NOTE**  
 1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).

- 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 = ...ND160C31-SHT-STAGING308.dgn	USER NAME = gres	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 3</b>	F.A.I. RTE. = 55	SECTION = (99-1&2)-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 120		
	PLOT SCALE = 1/8"=1'	CHECKED - RY	REVISED -			SCALE: 1"=50'	SHEET NO. 6 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						
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												

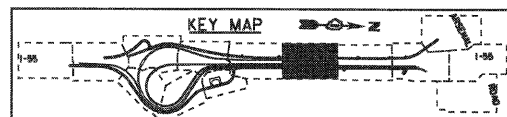




**NOTE**  
 1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO ENTRANCES. THIS WORK SHALL BE PAID FOR AS TEMPORARY ACCESS, COMMERCIAL ENTRANCE (X4022000).

**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)



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

FILE NAME = ...ND160C31-SHT-STAGING309.dgn

USER NAME = grai  
 PLOT SCALE = 1:500  
 PLOT DATE = 12/16/2009

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

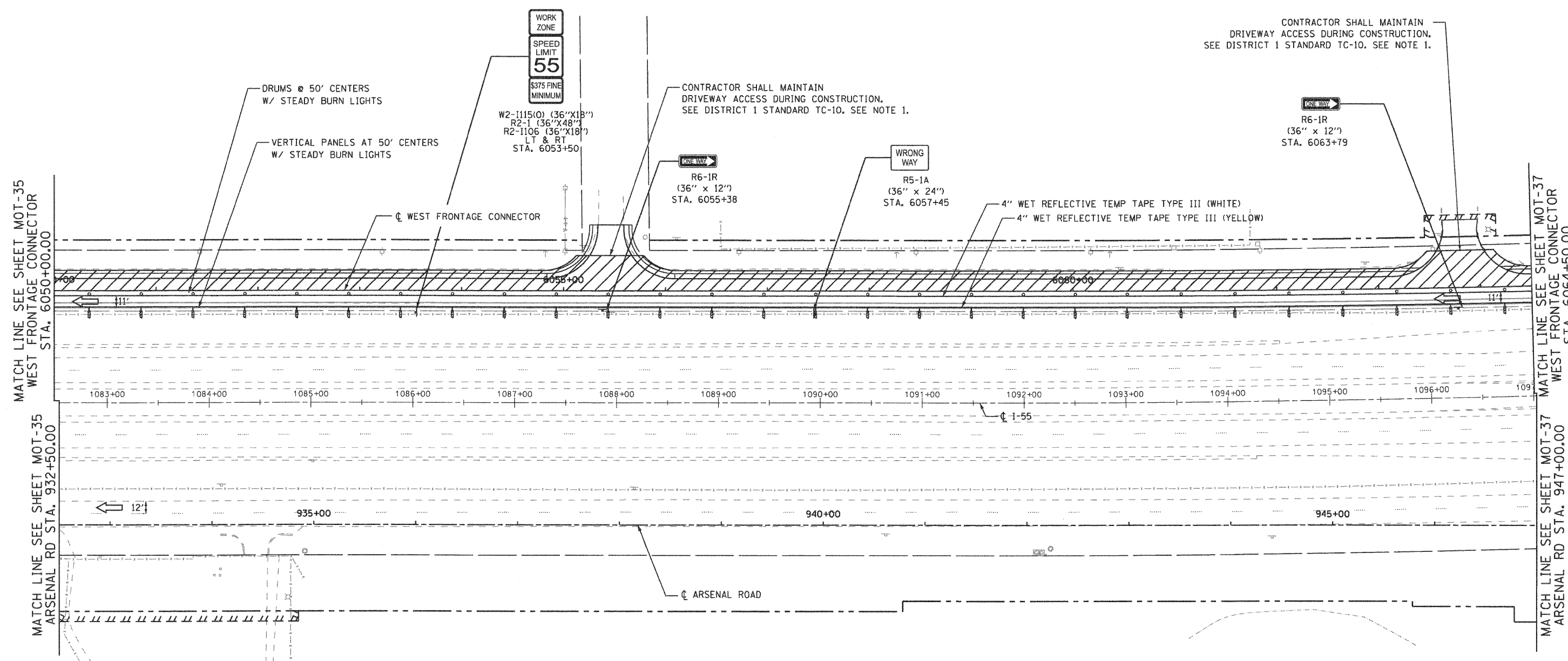
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

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



CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS DURING CONSTRUCTION. SEE DISTRICT 1 STANDARD TC-10. SEE NOTE 1.

CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS DURING CONSTRUCTION. SEE DISTRICT 1 STANDARD TC-10. SEE NOTE 1.

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

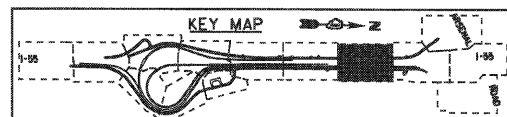
MATCH LINE SEE SHEET MOT-35 ARSENAL RD STA. 932+50.00

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 = gra1	DESIGNED - GR	REVISED -
...\\D160C31-SHT-STAGING318.dgn		DRAWN - GR	REVISED -
	PLOT SCALE = 1:50	CHECKED - RY	REVISED -
	PLOT DATE = 12/18/2009	DATE - 12/18/2009	REVISED -

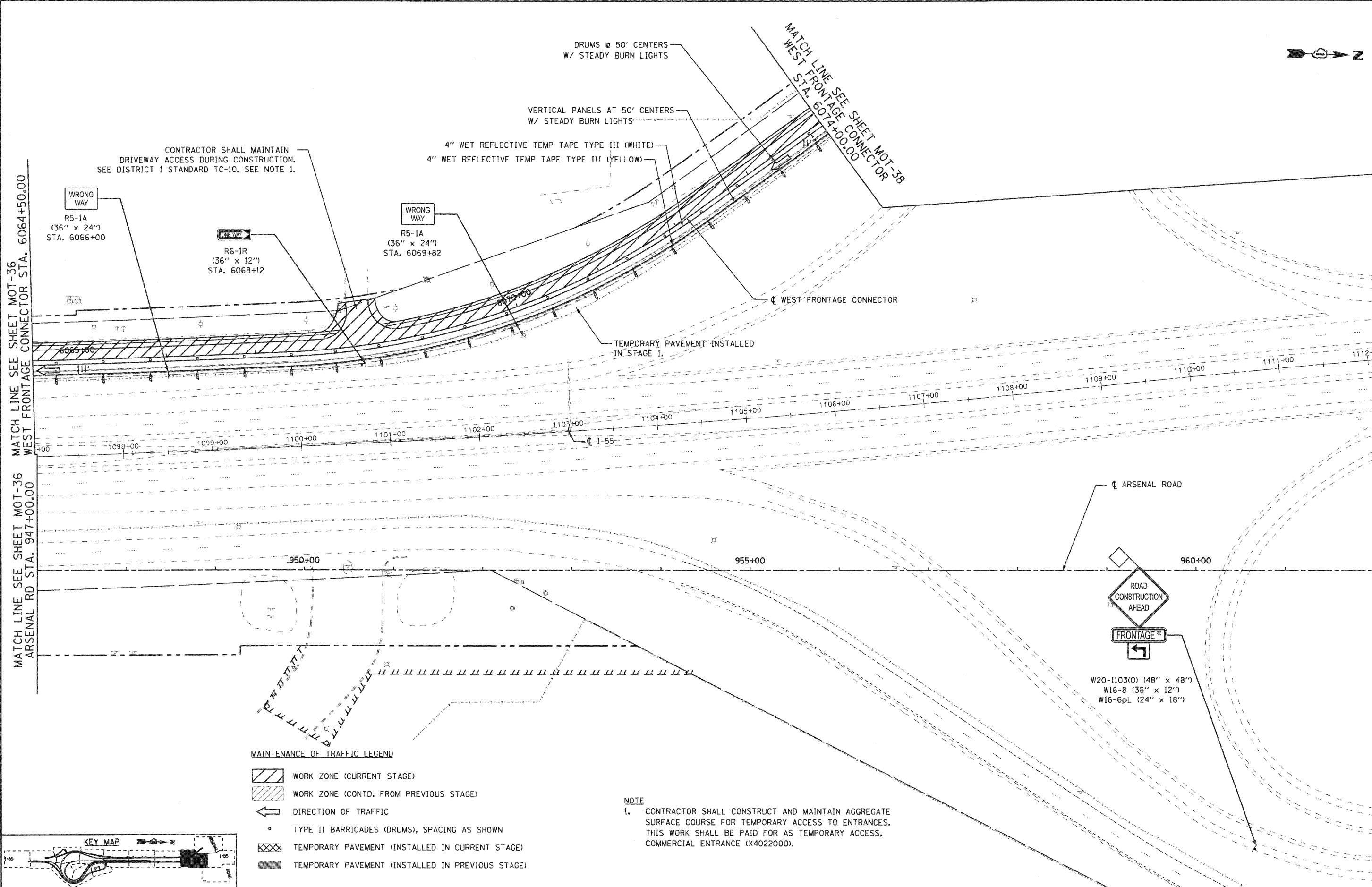
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC  
STAGE 3**

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

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

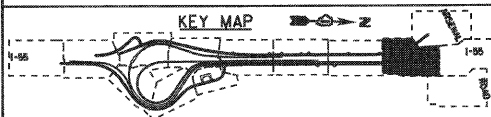
**FINAL**



**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)

**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).



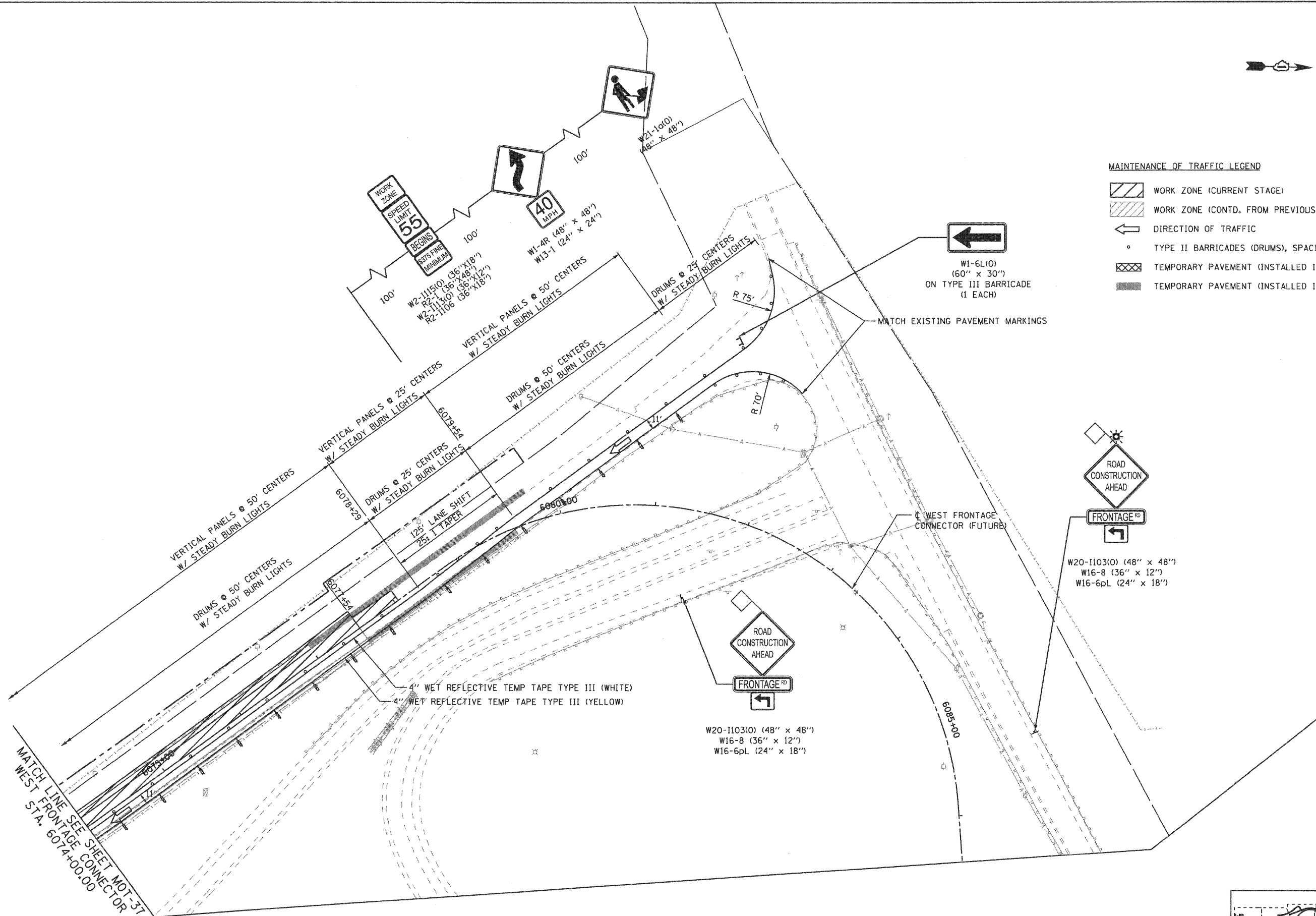
FILE NAME = ...ND160C31-SHT-STAGING311.dgn	USER NAME = gres	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 3</b>		F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 123	
PLOT SCALE = 1:500	CHECKED - RY	DATE - 12/18/2009	REVISED -		SCALE: 1"=50'	SHEET NO. 9 OF 10 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
PLOT DATE = 12/16/2009	DATE - 12/18/2009	REVISED -	REVISED -		CONTRACT NO. 60C31							
<b>FINAL</b>												

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

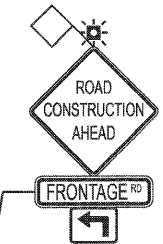


**MAINTENANCE OF TRAFFIC LEGEND**

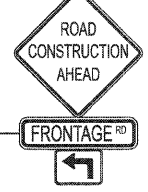
- WORK ZONE (CURRENT STAGE)
- WORK ZONE (CONTD. FROM PREVIOUS STAGE)
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES (DRUMS), SPACING AS SHOWN
- TEMPORARY PAVEMENT (INSTALLED IN CURRENT STAGE)
- TEMPORARY PAVEMENT (INSTALLED IN PREVIOUS STAGE)



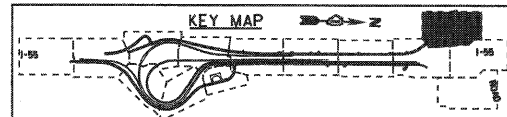
MATCH LINE SEE SHEET MOT-37  
WEST FRONTAGE CONNECTOR  
STA. 6074+00.00



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

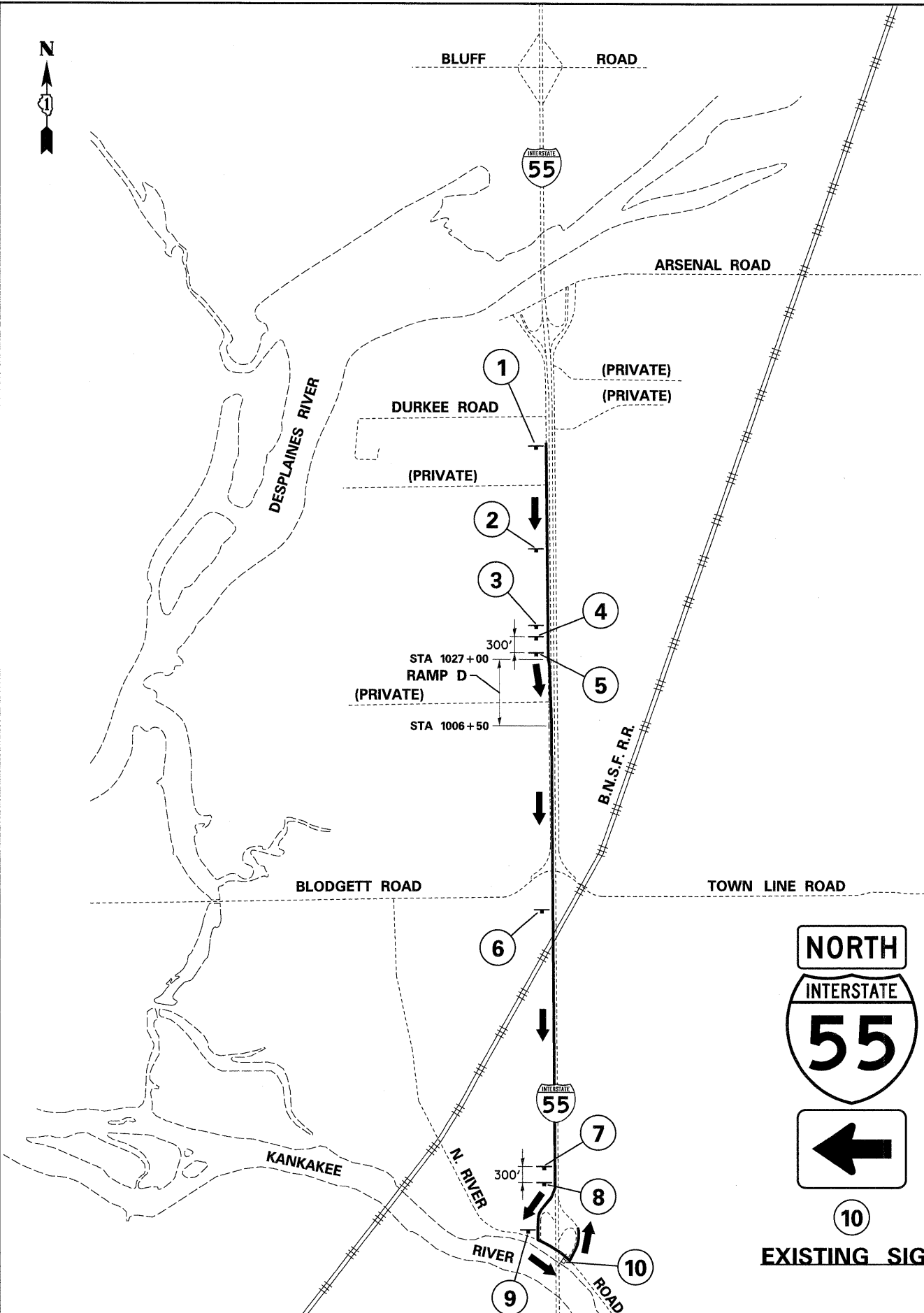


W20-1103(O) (48" x 48")  
W16-8 (36" x 12")  
W16-6pL (24" x 18")

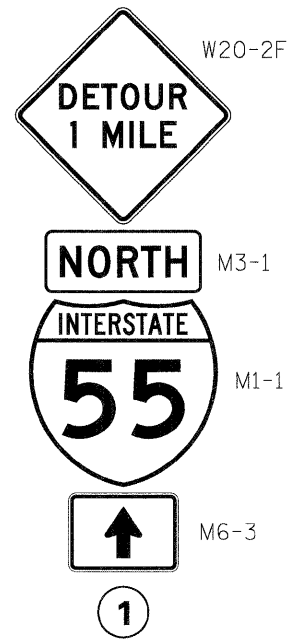


FILE NAME = ...ND160C31-SHT-STAGING312.dgn	USER NAME = gmas	DESIGNED - GR	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAINTENANCE OF TRAFFIC STAGE 3</b>	F.A.I. RTE. 55	SECTION (99-1&2)-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 124
PLOT SCALE = 1/8"=1'-0"		DRAWN - GR	REVISED -	SCALE: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

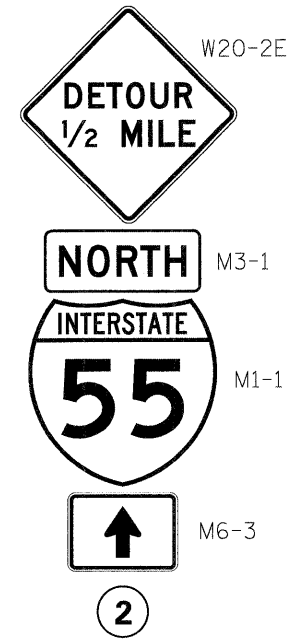
**FINAL**



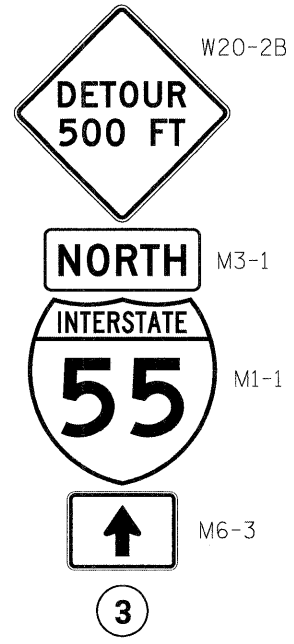
10  
EXISTING SIGN



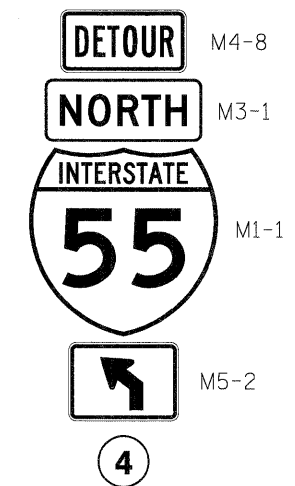
1



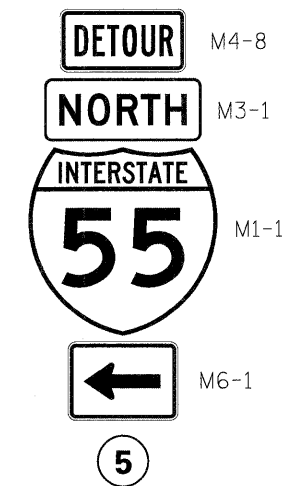
2



3



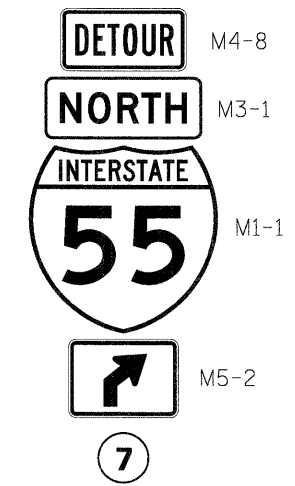
4



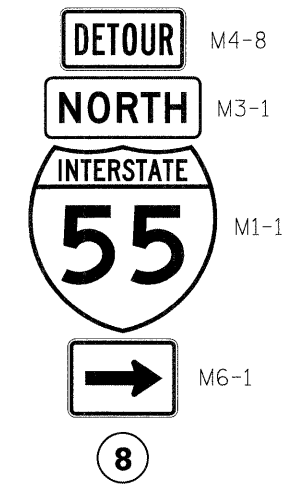
5



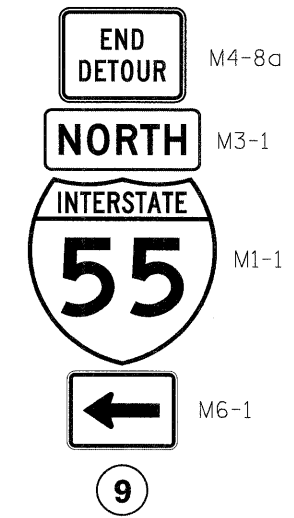
6



7



8



9

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

FILE NAME = D168C31-SHT-DETOUR.dgn	USER NAME = TKluigel	DESIGNED - YK	REVISED -
		DRAWN - YK	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

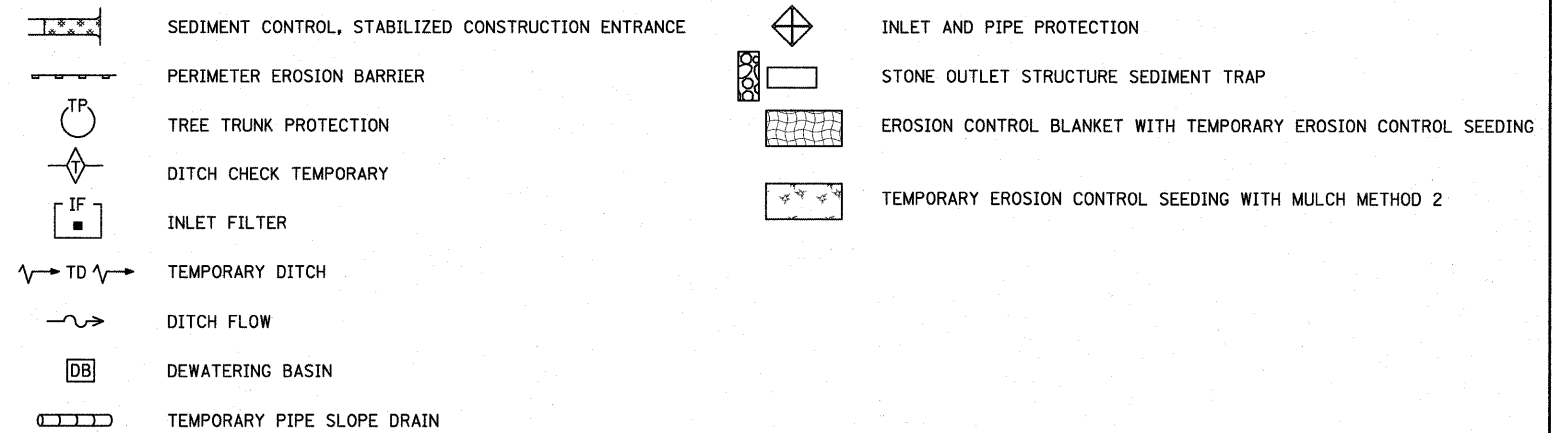
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 125
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	



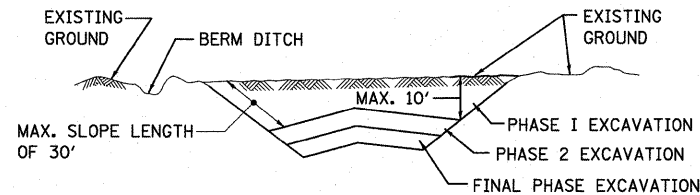
**EROSION AND SEDIMENT CONTROL  
GENERAL NOTES**

- 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.
- A MAXIMUM OF 10 ACRES MAY BE IN SOME STAGE OF GRADING AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES. WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.
  - (A) WHEN BALANCING EARTHWORK (BORROW FROM A CUT USED AS FILL AT A LOCATION DISTANT FROM THE CUT) THE ENGINEER WILL CONSIDER ALLOWING MORE THAN 10 ACRES OF GRADING AT A TIME. THE 10 ACRE LIMITATION DOES NOT INCLUDE HAUL ROADS, BRIDGE CONSTRUCTION WORK AREAS AND STORAGE AREAS.
  - (B) VARIATIONS TO THE ABOVE MAY BE CONSIDERED BY THE ENGINEER UNDER ALL THE FOLLOWING CONDITIONS:
    - IF THE CONTRACTOR FALLS BEHIND SCHEDULE THROUGH NO FAULT OF HIS OWN.
    - THE CONTRACTOR MUST PRESENT A SCHEDULE DEMONSTRATING THE NEED FOR SUCH VARIATION IN ORDER TO COMPLETE THE WORK ON TIME.
    - THE CONTRACTOR MUST COMPLY WITH ALL OTHER CONTRACT REQUIREMENTS.
- 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**



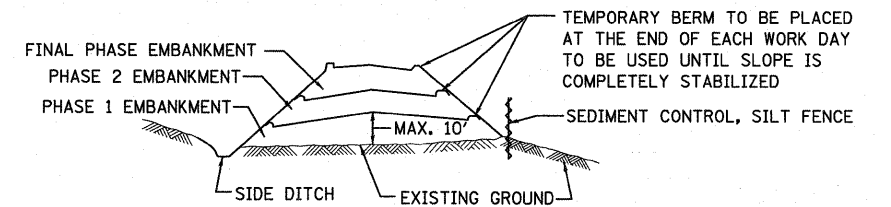
**EXCAVATION PHASING PLAN-CUT SECTION**



**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:
  - (A) EXCAVATE AND STABILIZE BERM, SIDE AND OUTLET DITCHES, PROVIDE SEDIMENT TRAPS FOR DITCHES.
  - (B) PERFORM PHASE 1 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING.
  - (C) PERFORM PHASE 2 EXCAVATION AND STABILIZE SLOPES WITH PERMANENT SEEDING. OVERSEED PHASE 1 SLOPES, IF REQUIRED.
  - (D) 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
  - (A) EXCAVATE AND STABILIZE SIDE DITCH AND/OR INSTALL PROPOSED PERIMETER CONTROLS AT THE TOE OF SLOPE.
  - (B) PLACE PHASE 1 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - (C) PLACE PHASE 2 EMBANKMENT AND STABILIZE WITH TEMPORARY SEEDING AND MULCH.
  - (D) 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

FILE NAME = D160C31-SHT-EROS01.dgn	USER NAME = jlatour	DESIGNED - JCL	REVISED -
		DRAWN - JCL	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	126
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**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.

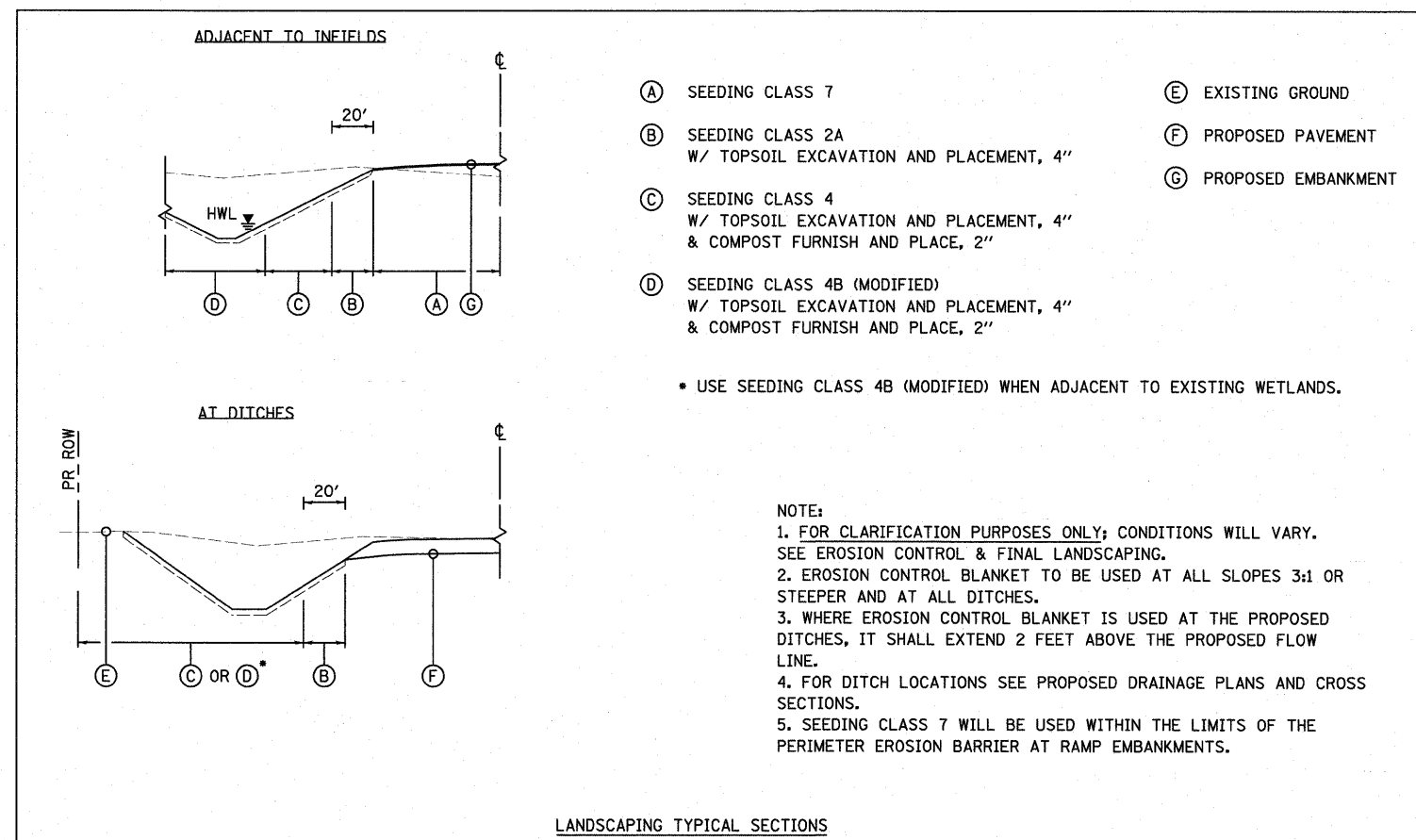
18. TOP SOIL PLACEMENT:  
TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE NOR ON TEMPORARILY STEEP SLOPES.
19. PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES WITHIN THE CONTRACT, ALL WETLANDS 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.

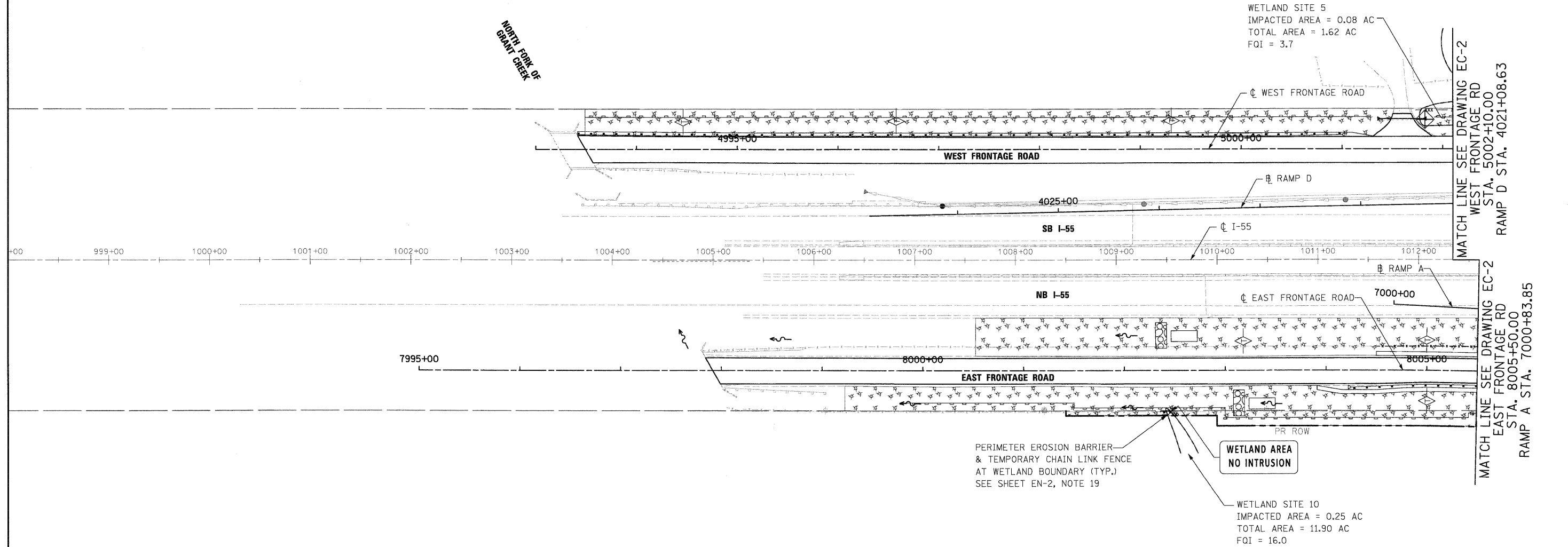


**SOIL PROTECTION SCHEDULE**

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+											

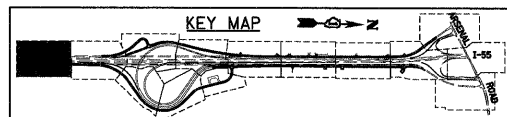
EROSION CONTROL LEGEND

- |  |   |  |                                      |
|--|---|--|--------------------------------------|
|  | 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                      |

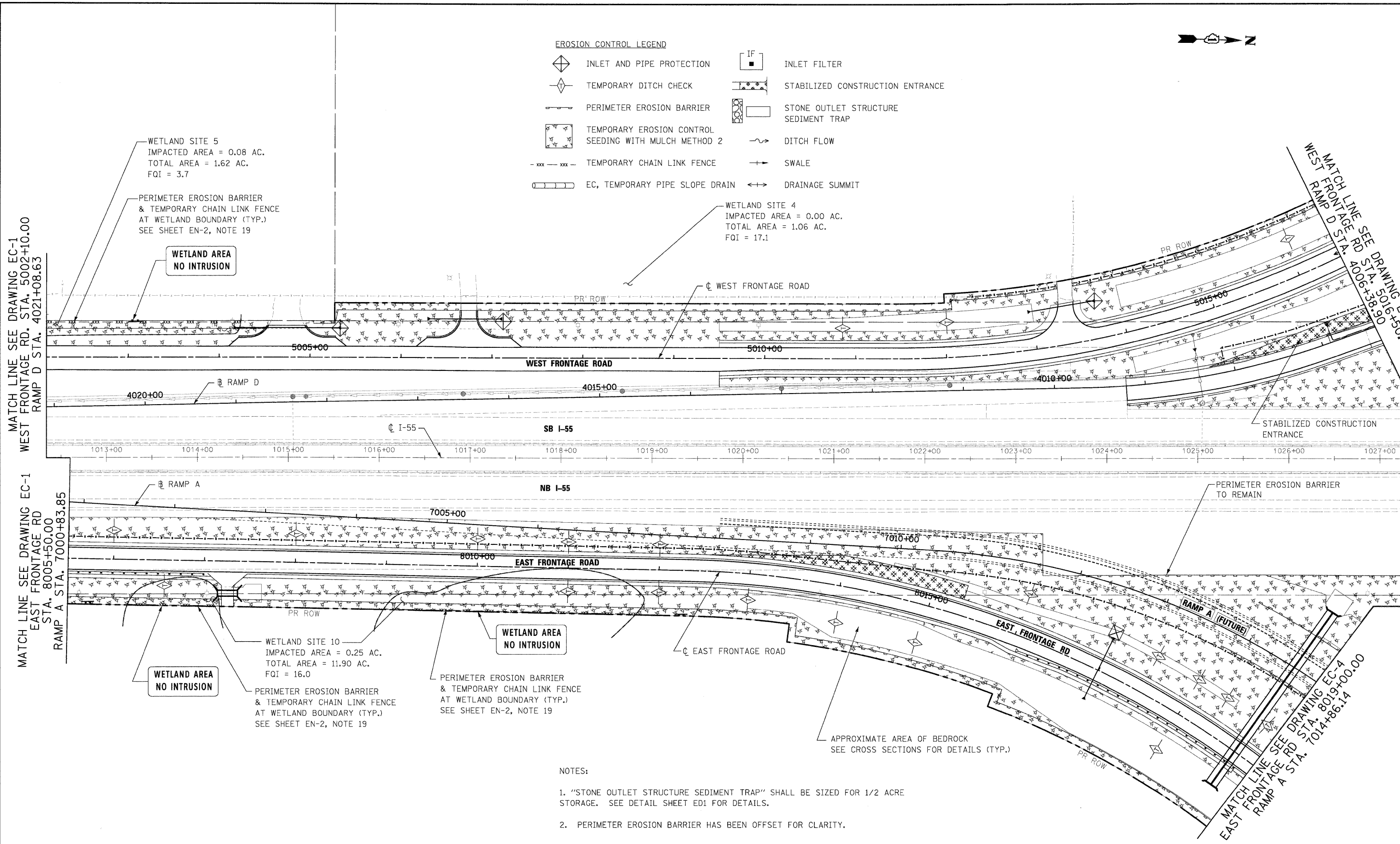


NOTES:

- "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.



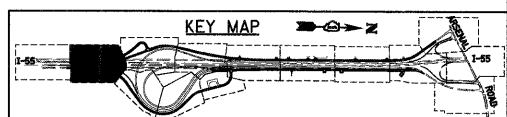
FILE NAME = D160C31-SHT-EROS11.dgn	USER NAME = Tkluegel	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 128		
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - JCL	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 15 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31		
PLOT DATE = 12/14/2009	DATE - 12/18/09	CHECKED - DLT	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
		DATE - 12/18/09	REVISED -			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 SEDIMENT TRAP
	TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2		DITCH FLOW
	TEMPORARY CHAIN LINK FENCE		SWALE
	EC, TEMPORARY PIPE SLOPE DRAIN		DRAINAGE SUMMIT

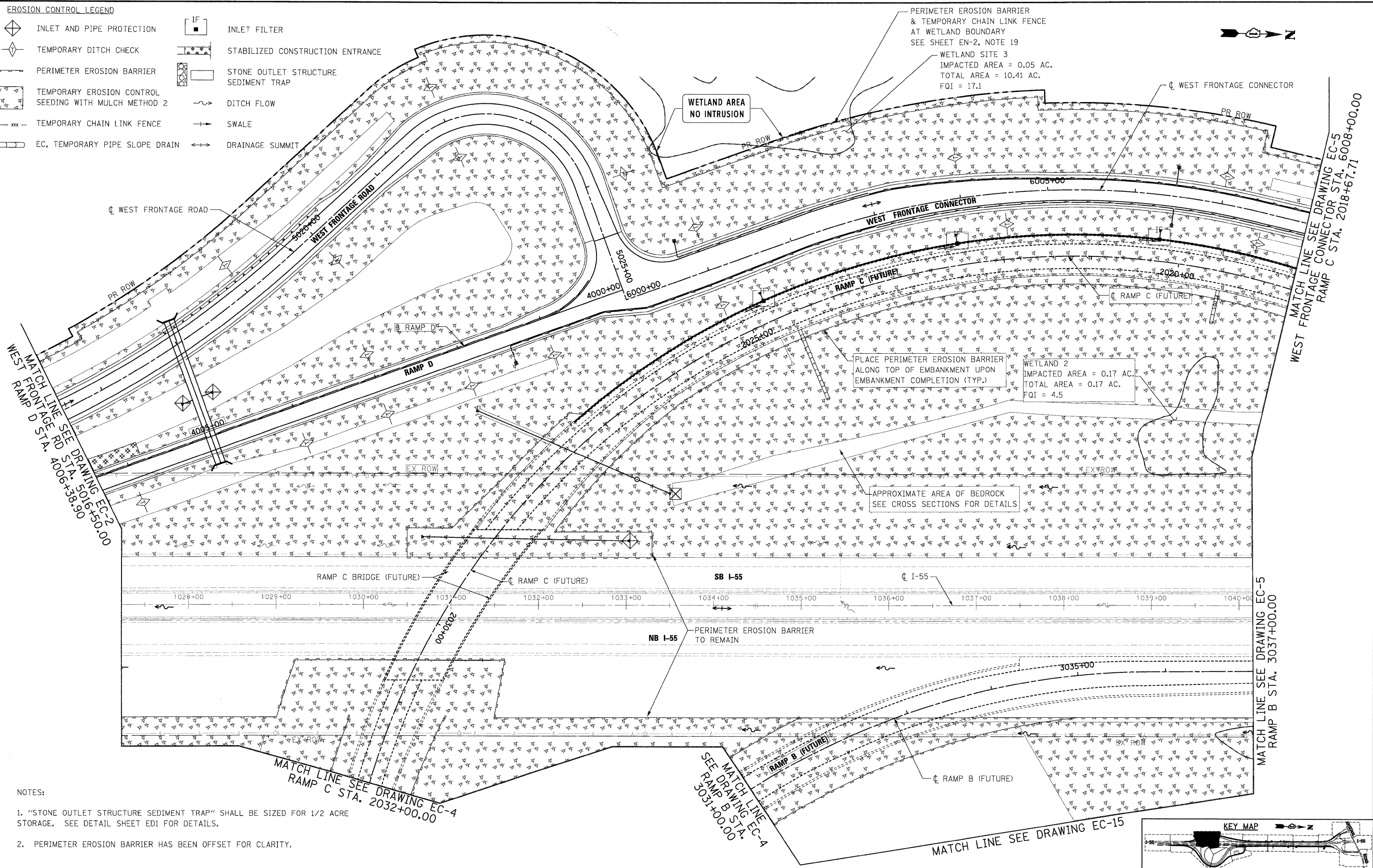
- NOTES:
- "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
  - PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



FILE NAME = D:\62031-SHT-EROS12.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 129
PLOT SCALE = 1:500	CHECKED - DLT	DATE - 12/18/09	REVISED -			SCALE: 1"=50'	SHEET NO. 2 OF 15 SHEETS	STA. TO STA.	CONTRACT NO. 60C31	
PLOT DATE = 12/14/2009	DATE - 12/18/09	REVISED -	REVISED -			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
-  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 = D162C31-5HT-EROS13.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:50	DRAWN - JCL	CHECKED - DLT	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09		REVISED -

**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. RTEL. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 130	CONTRACT NO. 60C31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

**FINAL**

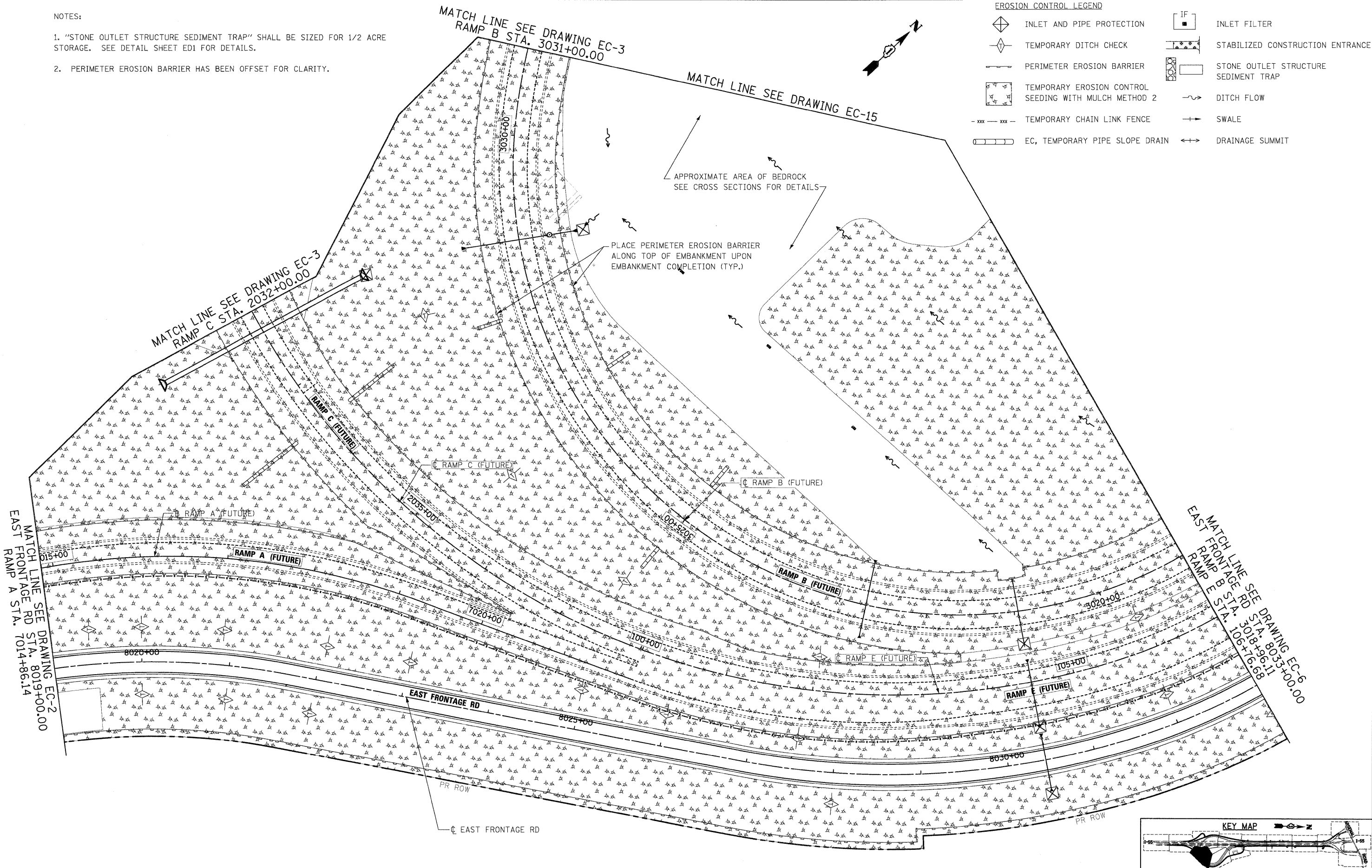


NOTES:

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
- 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



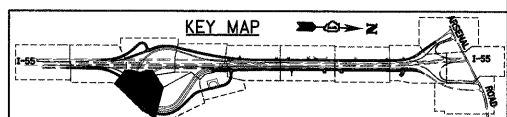
**McDonough Associates Inc.**  
 Engineers / Architects  
 130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D160C31-SHT-EROS14.dgn	USER NAME = TKluegel	DESIGNED - JTF	REVISED -
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - JTF	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN**

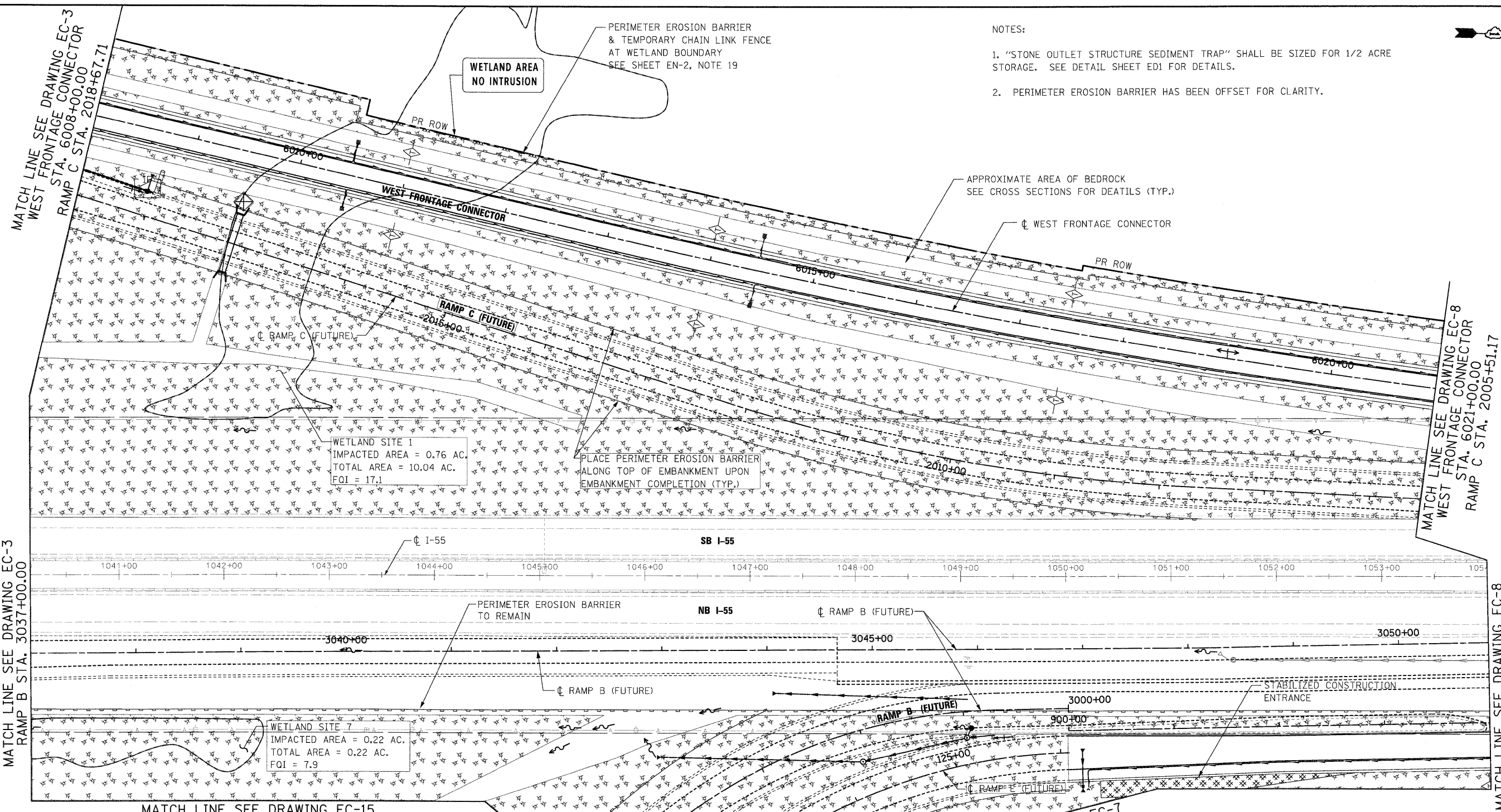
SCALE: 1"=50' SHEET NO. 4 OF 15 SHEETS STA. TO STA.



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

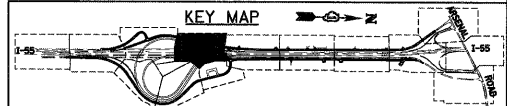


- NOTES:
1. "STONE OUTLET STRUCTURE SEDIMENT TRAP" SHALL BE SIZED FOR 1/2 ACRE STORAGE. SEE DETAIL SHEET ED1 FOR DETAILS.
  2. PERIMETER EROSION BARRIER HAS BEEN OFFSET FOR CLARITY.



**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



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

FILE NAME = D:\60C31-SHT-EROS15.dgn	USER NAME = Tkluegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:50	DRAWN - JCL	CHECKED - DLT	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**













**EROSION AND SEDIMENT CONTROL PLAN**

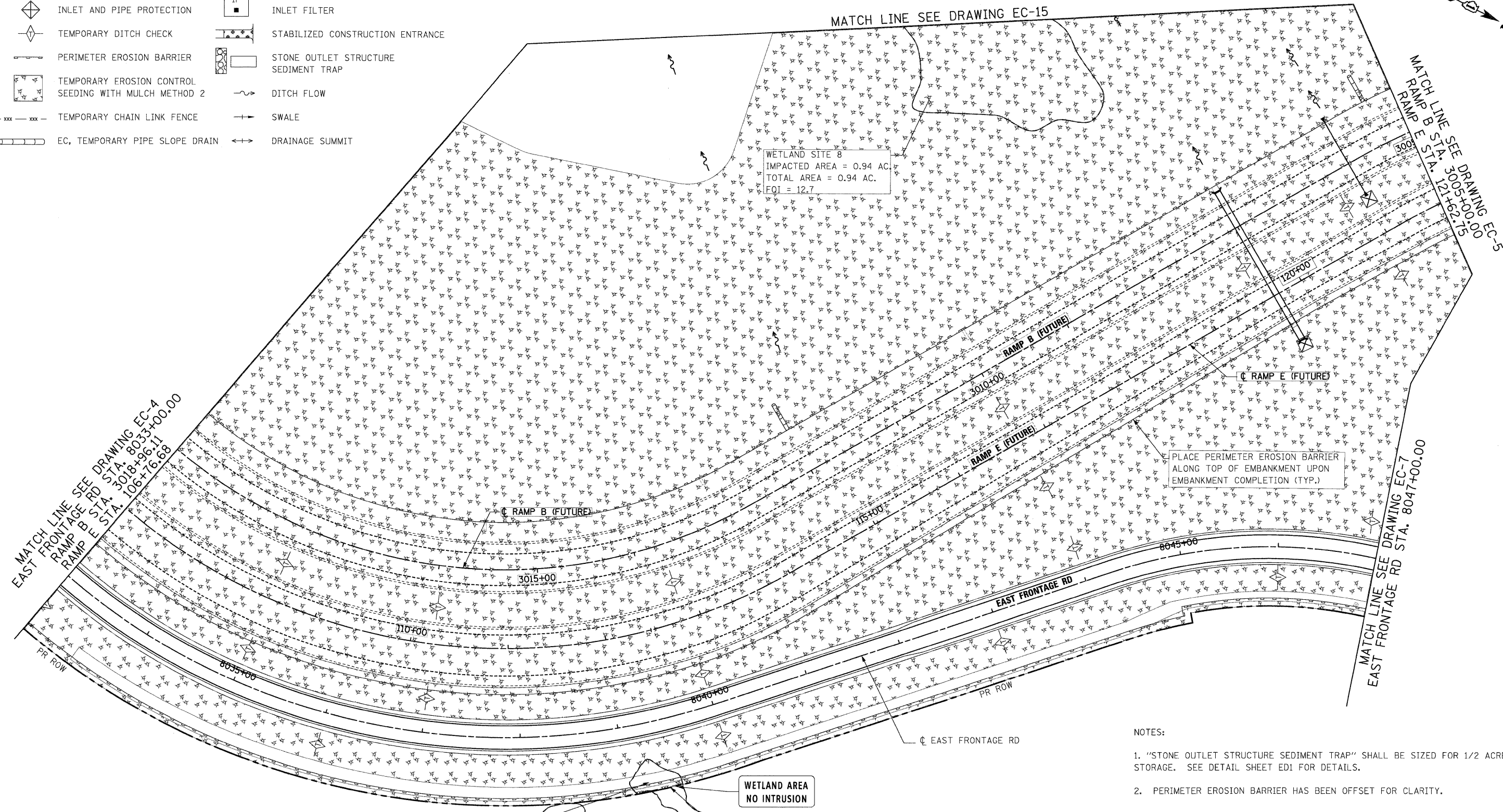
SCALE: 1"=50' SHEET NO. 5 OF 15 SHEETS STA. TO STA.

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

**FINAL**

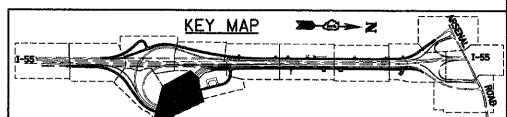
EROSION CONTROL LEGEND

-  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
-  IF
-  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

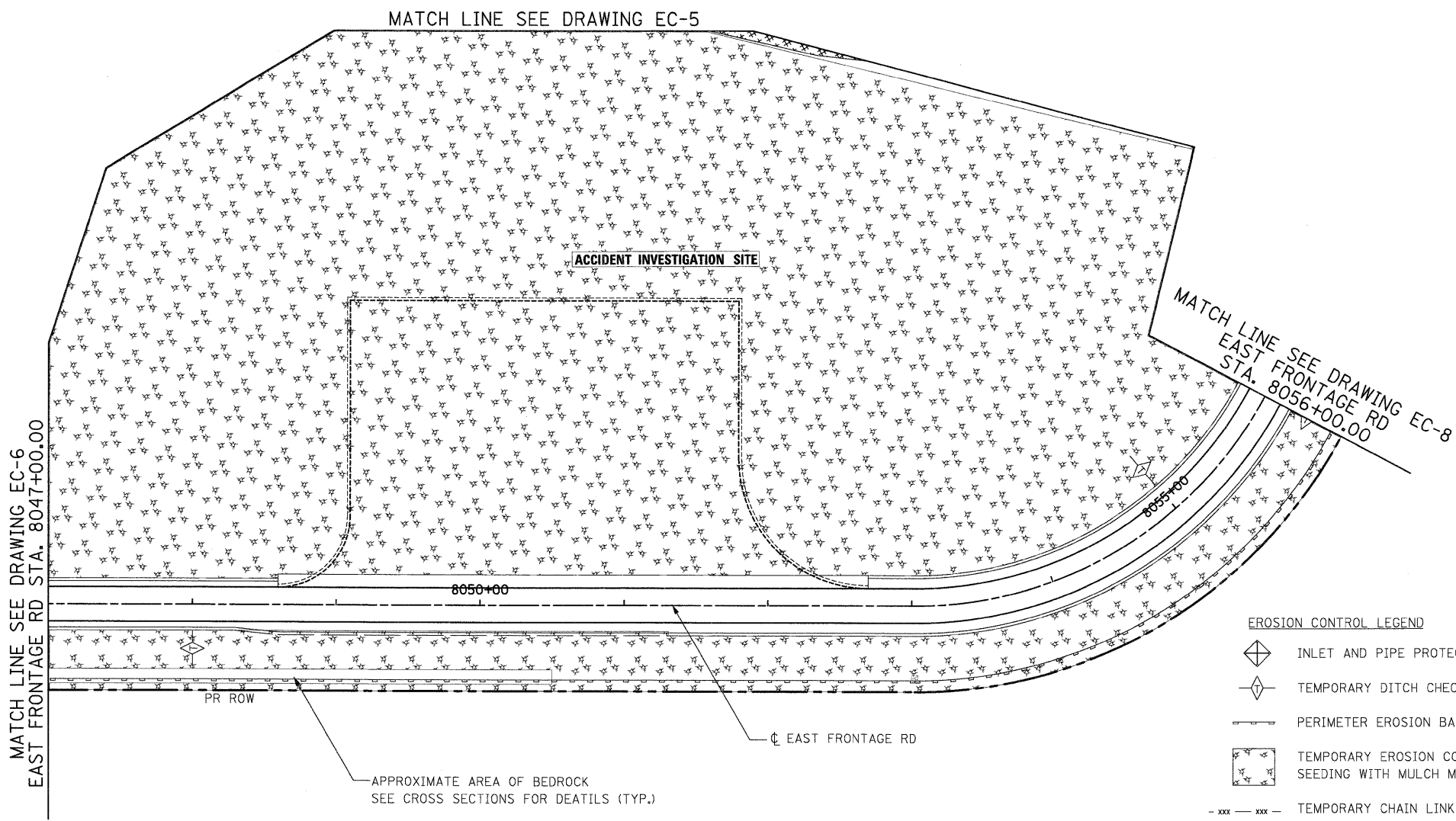
FILE NAME = D162C31-SHT-EROS16.dgn	USER NAME = TK1uegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1/8"=1'		DRAWN - JCL	REVISED -
PLOT DATE = 12/11/2009		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**













**EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1"=50'    SHEET NO. 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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

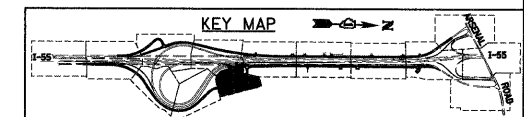


**EROSION CONTROL LEGEND**

-  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 = D160C31-SHT-EROS17.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - JCL	REVISED -
PLOT DATE = 12/11/2009	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.

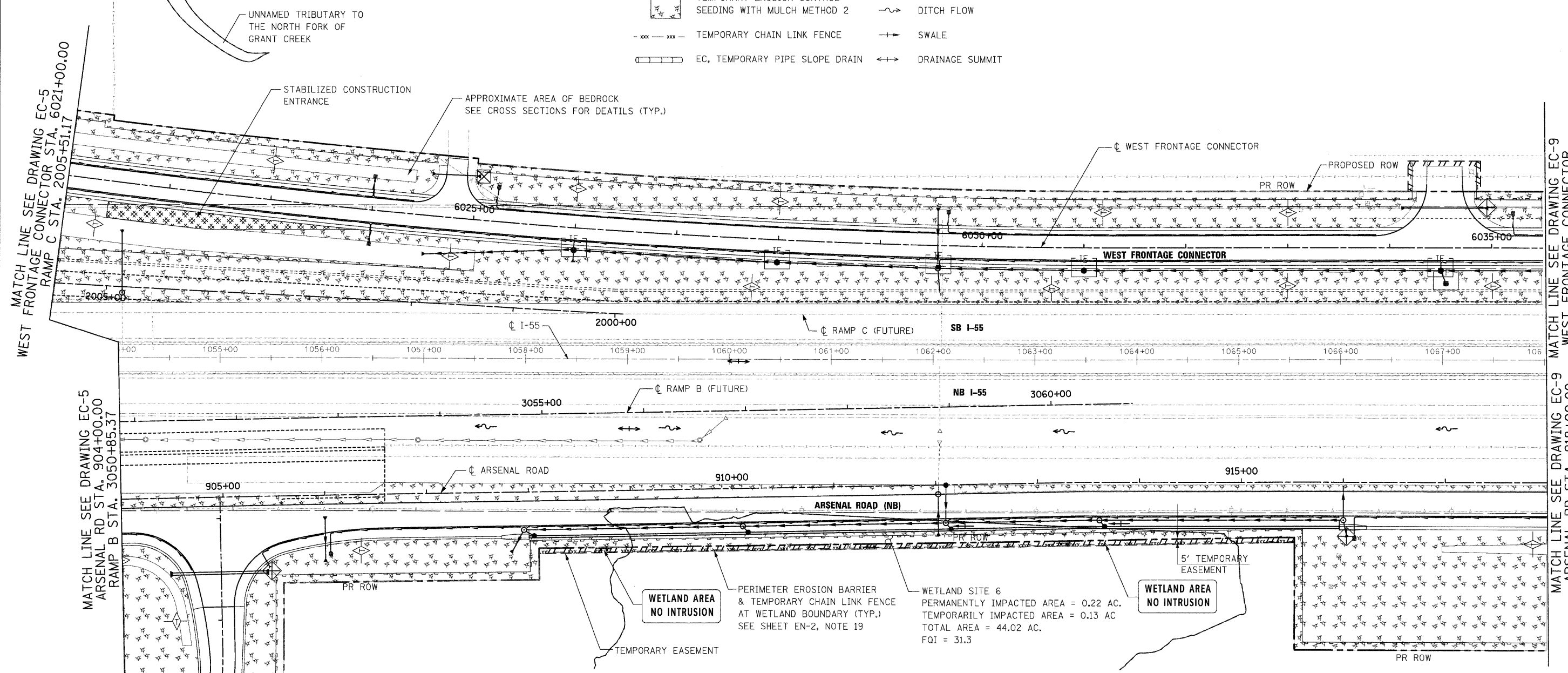
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	134
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





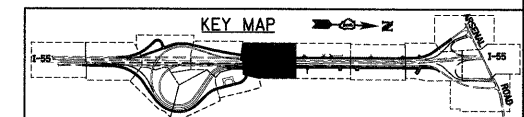
**EROSION CONTROL LEGEND**

- 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

FILE NAME = D162C31-SHT-EROS18.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:500	CHECKED - DLT	DRAWN - JCL	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISIONS -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN**

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

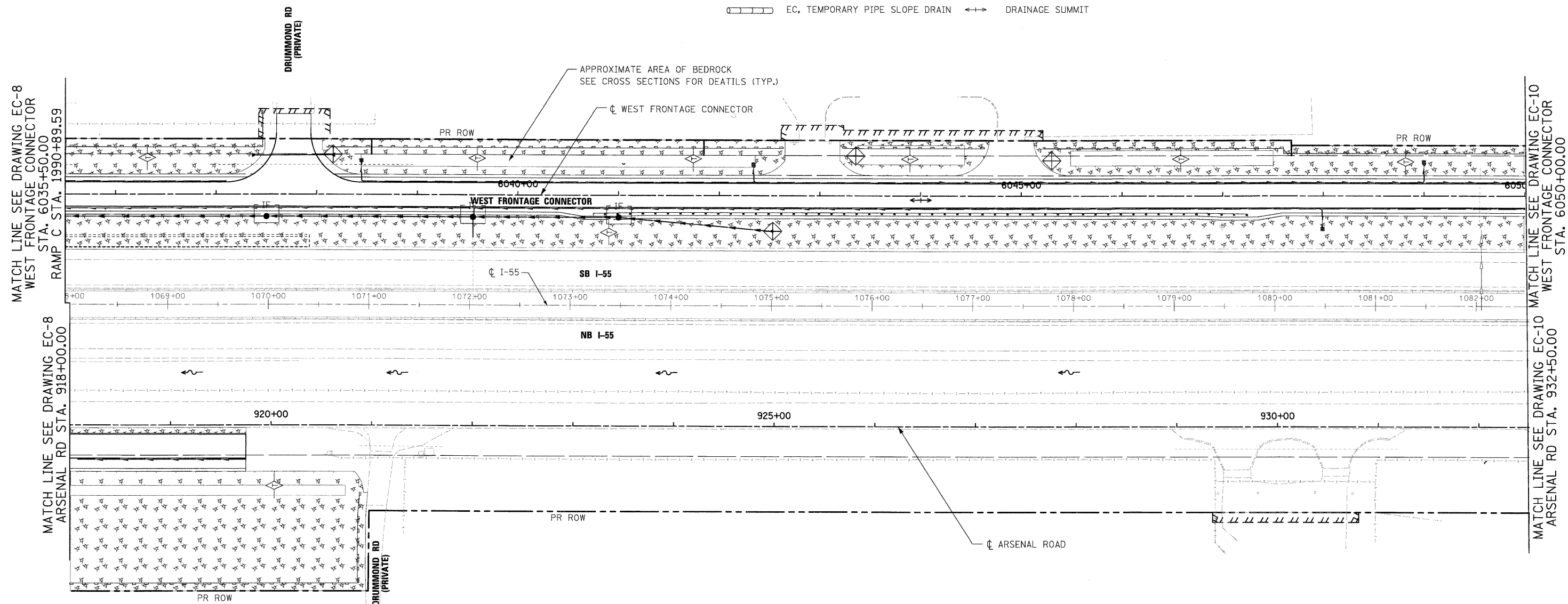
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	135
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	





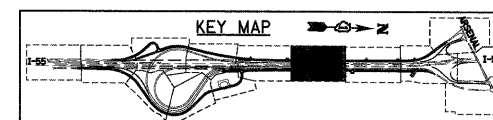
**EROSION CONTROL LEGEND**

- |  |  |  |   |
|--|--|--|---|
|  | INLET AND PIPE PROTECTION                                |  | INLET FILTER                            |
|  | TEMPORARY DITCH CHECK                                    |  | STABILIZED CONSTRUCTION ENTRANCE        |
|  | PERIMETER EROSION BARRIER                                |  | STONE OUTLET STRUCTURE<br>SEDIMENT TRAP |
|  | TEMPORARY EROSION CONTROL<br>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.



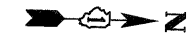
FILE NAME = 0162C31-SHT-CRO519.dgn	USER NAME = TKLuegel	DESIGNED - JCL	REVISED -
	PLOT SCALE = 1:50	DRAWN - JCL	REVISED -
	PLOT DATE = 12/11/2009	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN**

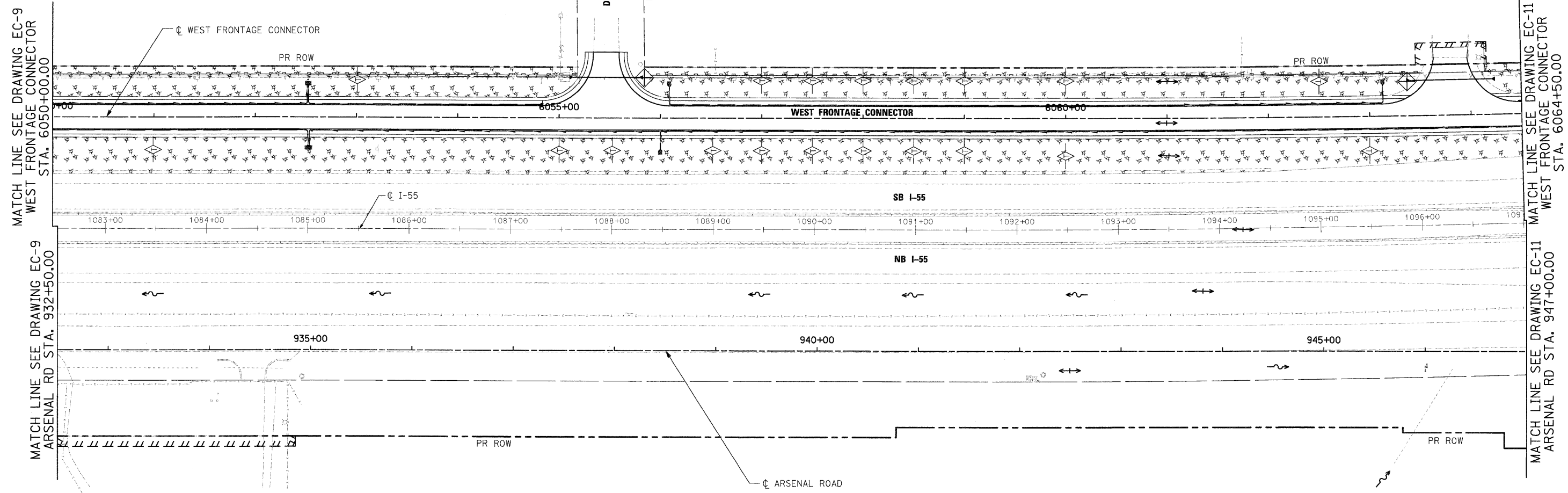
SCALE: 1"=50' SHEET NO. 9 OF 15 SHEETS STA. TO STA.

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

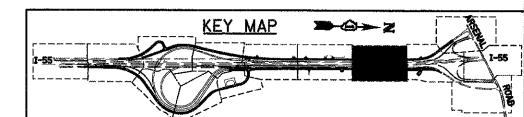


EROSION CONTROL LEGEND

	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



- 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:\60C31-SHT-ERDS22.dgn	USER NAME = TKluegel	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**

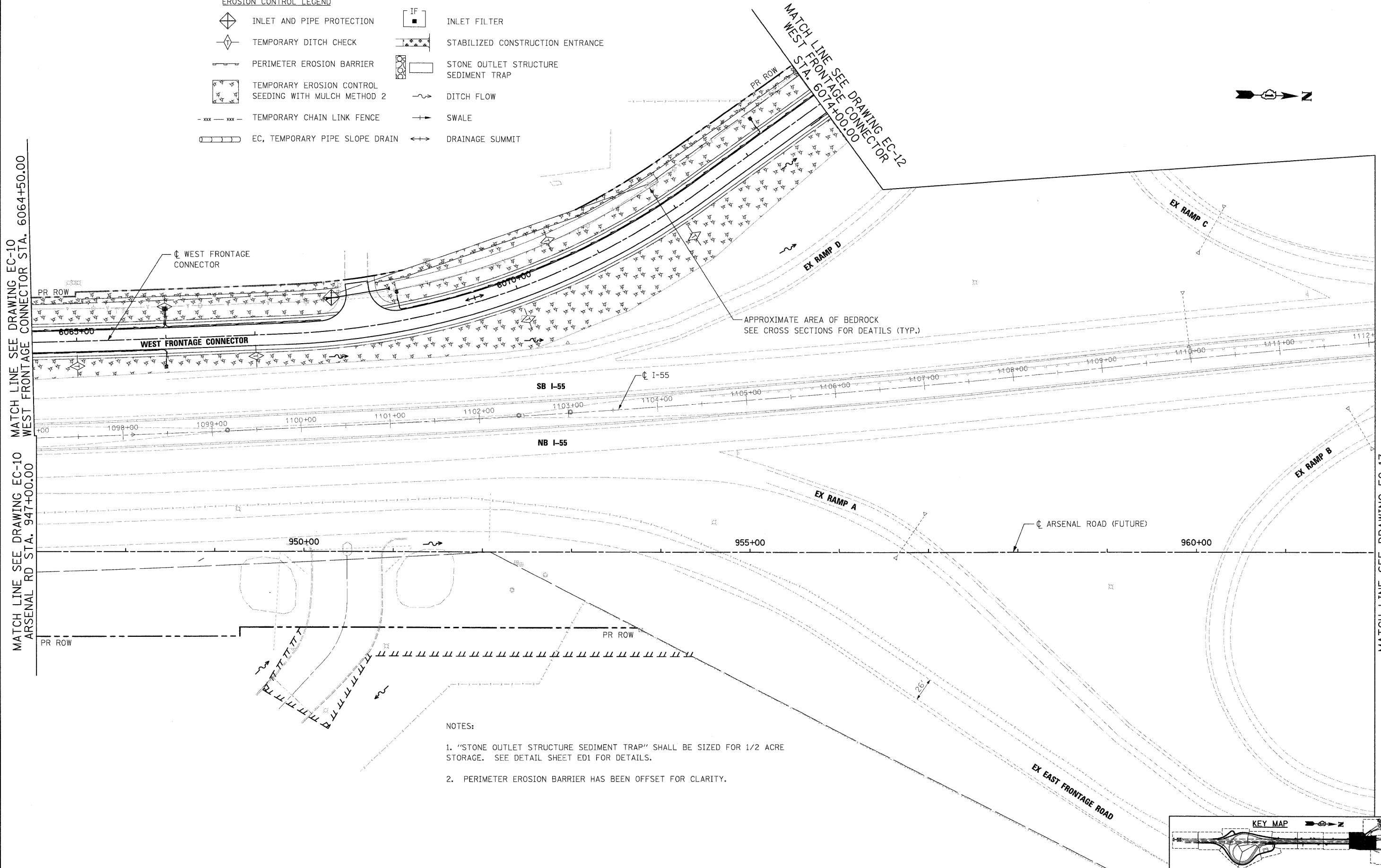
SCALE: 1"=50' SHEET NO. 10 OF 15 SHEETS STA. TO STA.

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

**EROSION CONTROL LEGEND**

- |  |  |  |   |
|--|--|--|---|
|  | INLET AND PIPE PROTECTION                                |  | INLET FILTER                            |
|  | TEMPORARY DITCH CHECK                                    |  | STABILIZED CONSTRUCTION ENTRANCE        |
|  | PERIMETER EROSION BARRIER                                |  | STONE OUTLET STRUCTURE<br>SEDIMENT TRAP |
|  | TEMPORARY EROSION CONTROL<br>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-EROS21.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - JCL	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09	CHECKED -	REVISED -













**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN**

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

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

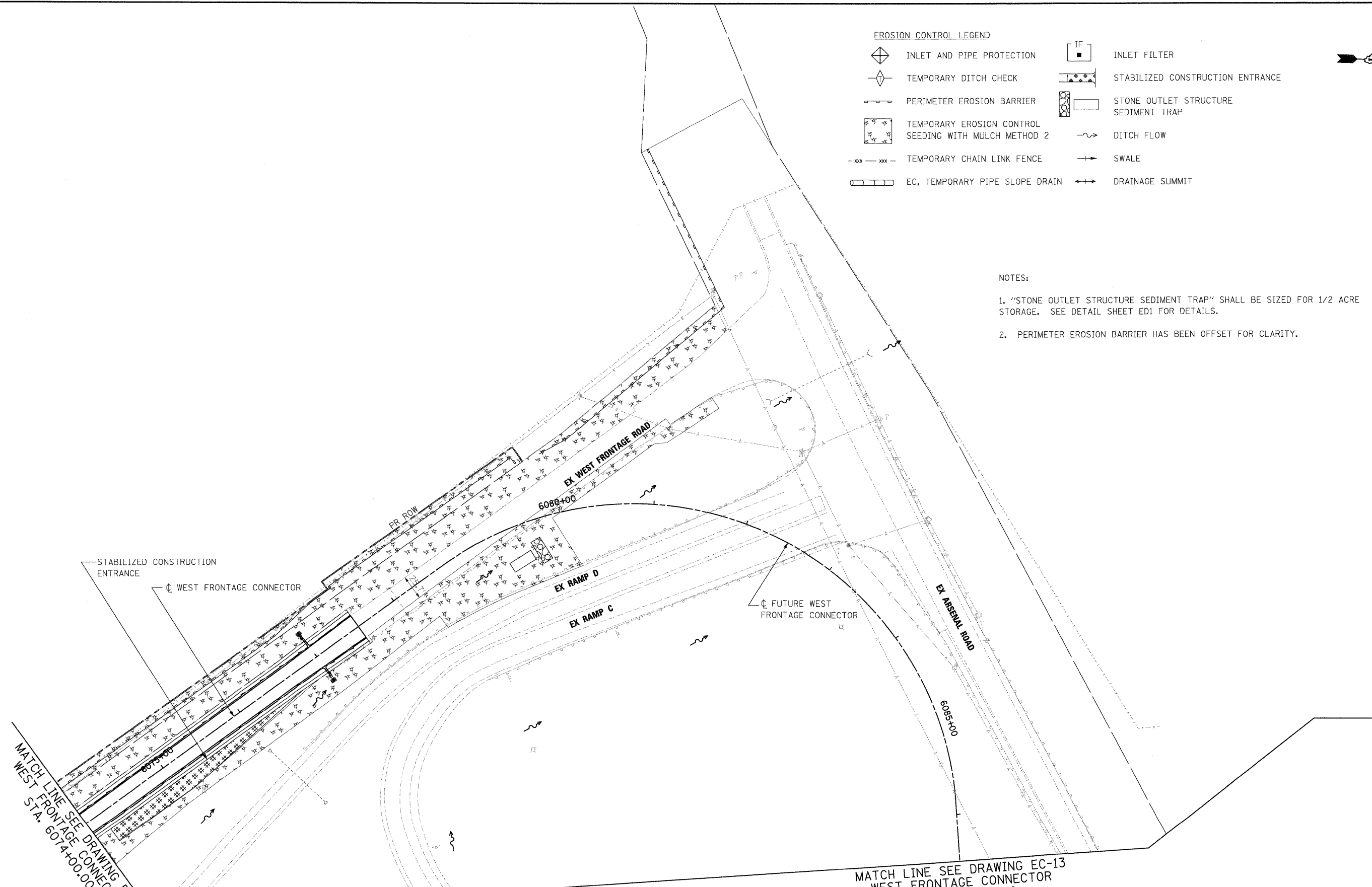
EROSION CONTROL LEGEND

-  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



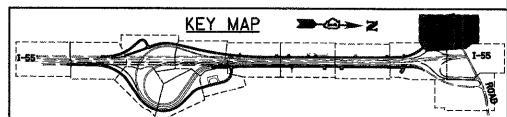
NOTES:

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

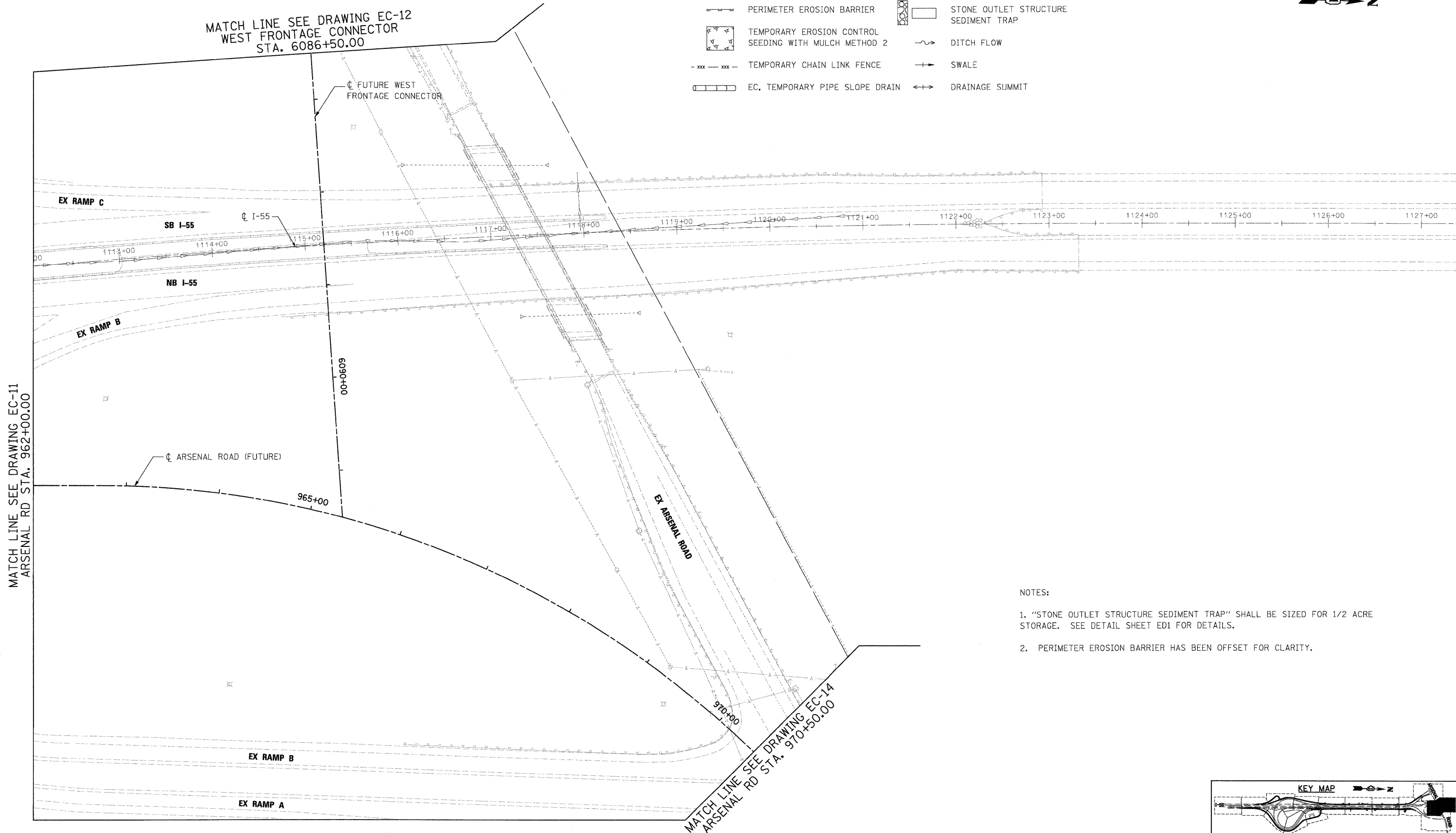
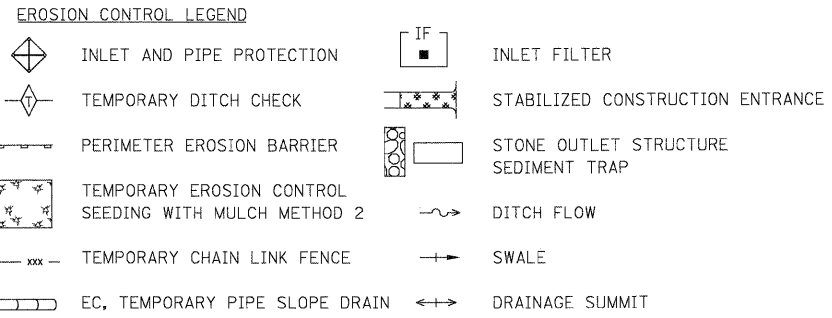
FILE NAME = D160C31-SHT-EROS22.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
		DRAWN - JCL	REVISED -
PLOT SCALE = 1:50		CHECKED - DLT	REVISED -
PLOT DATE = 12/14/2009		DATE - 12/18/09	REVISED -

**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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

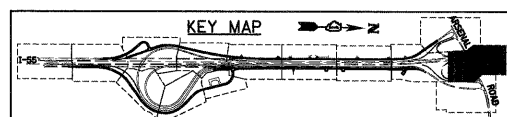


MATCH LINE SEE DRAWING EC-11  
 ARSENAL RD STA. 962+00.00

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

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

- 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.



FILE NAME = D:\168\C31-SHT-EROS23.dgn	USER NAME = TKIvege1	DESIGNED - JCL DRAWN - JCL	REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 140
	PLOT SCALE = 1:50 PLOT DATE = 12/1/2009	CHECKED - DLT DATE - 12/18/09	REVISED - REVISED -			CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
				SCALE: 1"=50' SHEET NO. 13 OF 15 SHEETS STA. TO STA.						





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

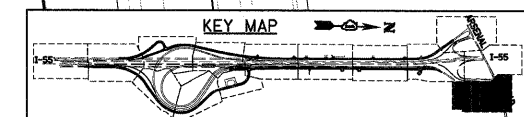
EX ARSENAL ROAD

**EROSION CONTROL LEGEND**

-  INLET AND PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY EROSION CONTROL SEEDING WITH MULCH METHOD 2
-  - xxx - xxx - 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.

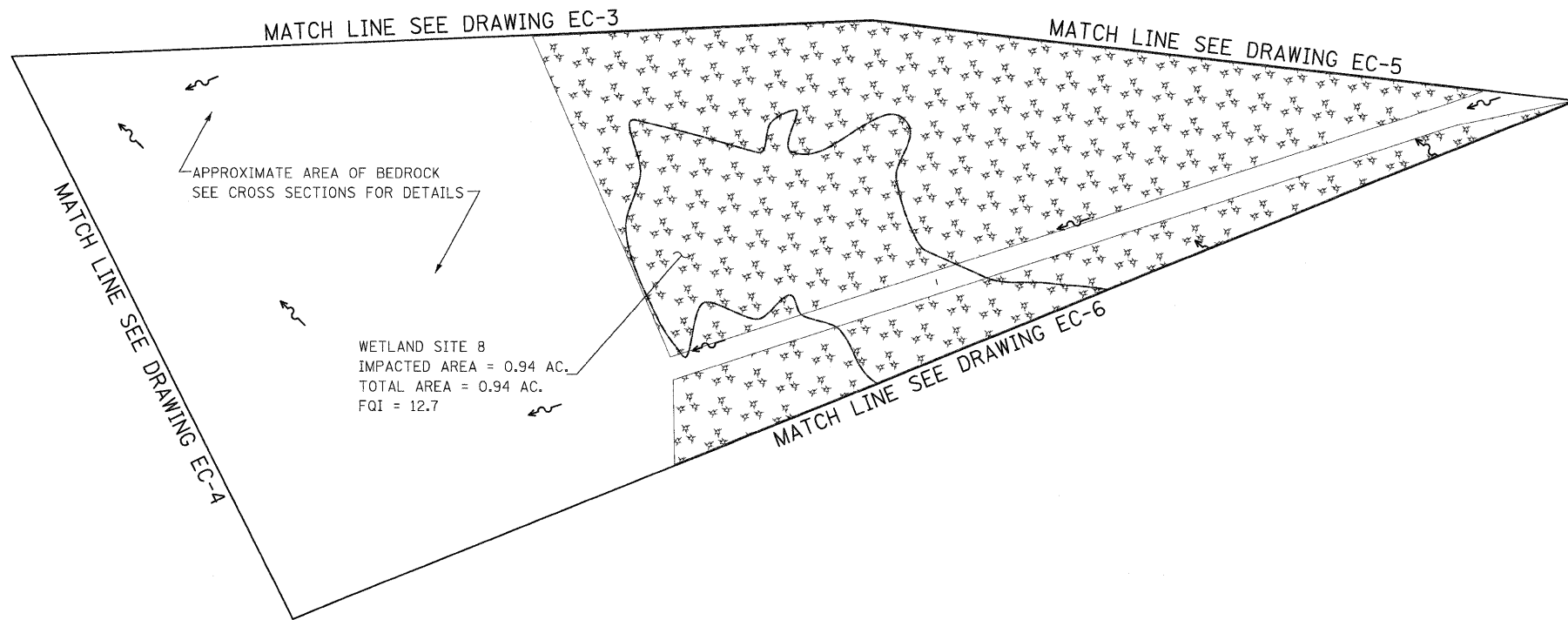


McDonough Associates Inc.  
Engineers / Architects  
130 East Randolph Street, Chicago, Illinois 60601

FILE NAME = D162C31-SHT-EROS24.dgn	USER NAME = TXLuegel	DESIGNED - JCL	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION AND SEDIMENT CONTROL PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 141	
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - JCL	REVISED -			CONTRACT NO. 60C31					
PLOT DATE = 12/11/2009	DATE - 12/18/09	CHECKED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -			SCALE: 1"=50'		SHEET NO. 14 OF 15 SHEETS		STA. TO STA.	

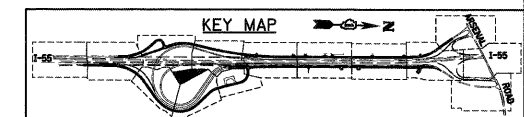
EROSION CONTROL LEGEND

-  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.



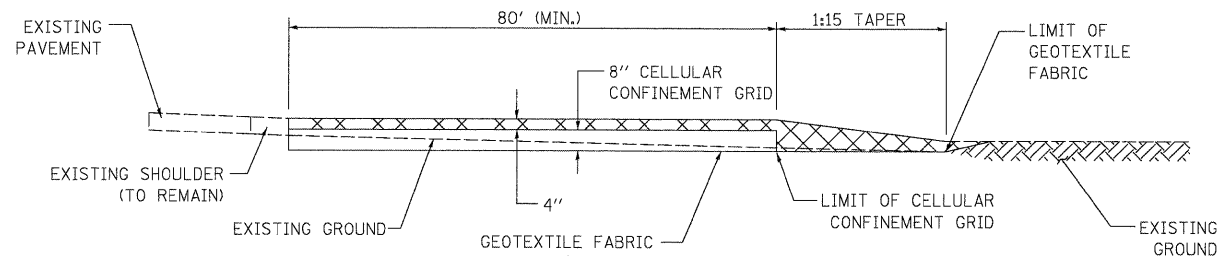
FILE NAME = D:\60C31-SHT-EROS25.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
		DRAWN - JCL	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

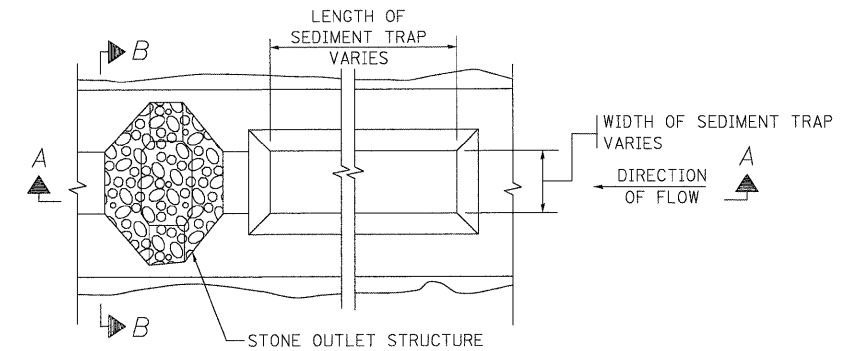
EROSION AND SEDIMENT CONTROL PLAN

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

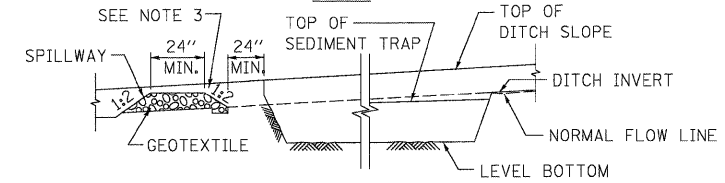
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	142
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A  
N.T.S.

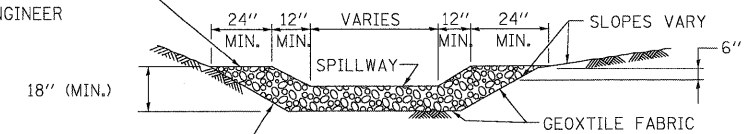


PLAN



SECTION A-A

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



SECTION B-B

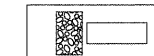
CUT SIDE SLOPES IN SEDIMENT TRAP AS STEEP AS SOIL CONDITIONS WILL ALLOW

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

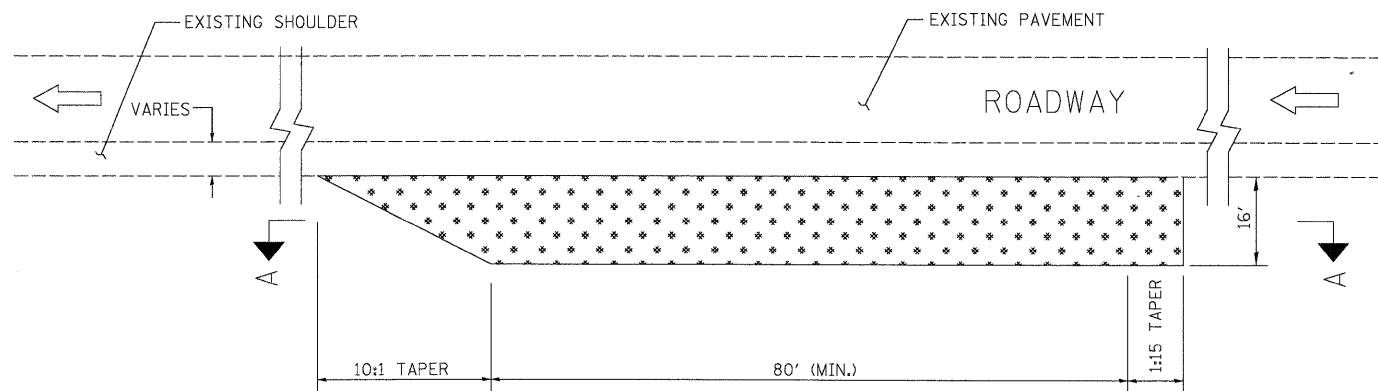
STANDARD SYMBOL



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



FILE NAME = D162C31-SHT-EROS31.dgn	USER NAME = TKluegel	DESIGNED - JCL	REVISED -
		DRAWN - JCL	REVISED -
		CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

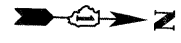
PLOT SCALE = 1:50	
PLOT DATE = 12/11/2009	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS

SCALE: NONE SHEET NO. 1 OF X SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 143
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	



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

NORTH FORK OF GRANT CREEK

FLOODPLAIN

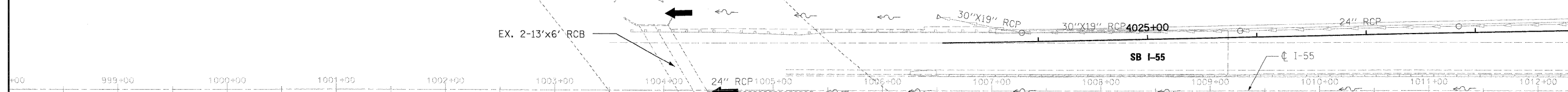
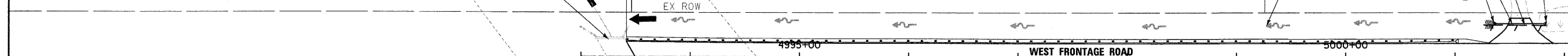
EX. 22.5' WIDE  
 CONC. BRIDGE

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

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



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

**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**

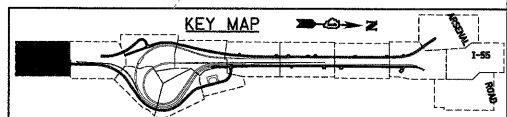
- |  |                   |
|--|-------------------|
|  | FIBER OPTIC CABLE |
|  | GAS LINE          |
|  | TELEPHONE CABLE   |
|  | ELECTRIC CABLE    |

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

NORTH FORK OF GRANT CREEK

**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.



SINGH & ASSOCIATES, INC.  
 300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 625-0240  
 FAX: (312) 625-8449  
 CONSULTING ENGINEERS

FILE NAME = D168C31-SHT-DRAIN01.dgn	USER NAME = TX1uegel	DESIGNED - PKT/VP	REVISED -
		DRAWN - PKT/VP	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

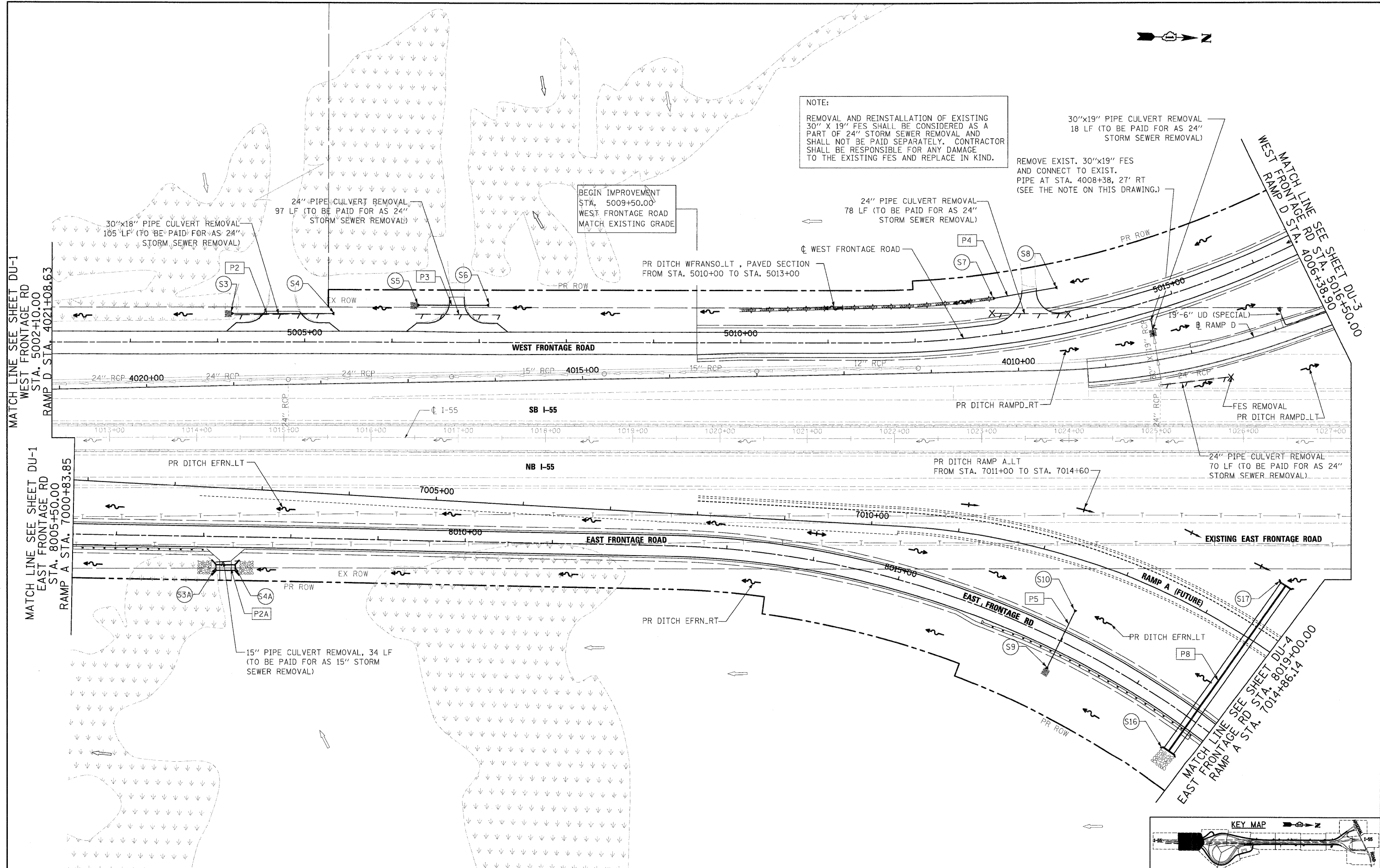
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

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

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

**FINAL**



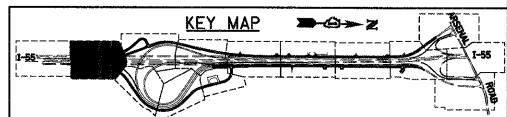
FILE NAME =	USER NAME = TKluegel	DESIGNED - PKT/VP	REVISED -
D:\60\31-SHT-DRAIN\02.dgn		DRAWN - PKT/VP	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

PLOT SCALE = 1:50	DATE - 12/18/09
-------------------	-----------------

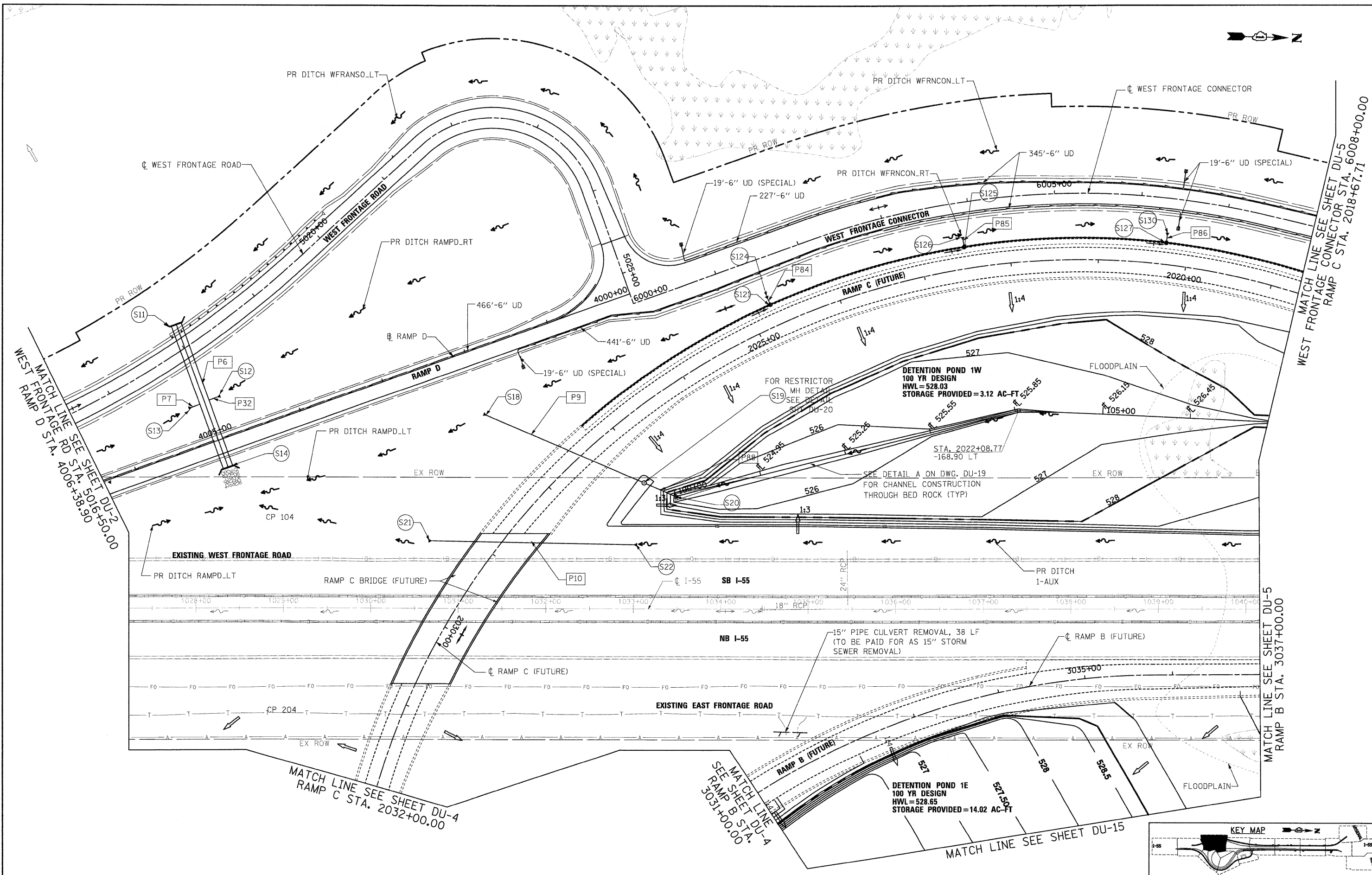
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DRAINAGE AND UTILITY PLAN</b>	
SCALE: 1"=50'	SHEET NO. 2 OF 22 SHEETS STA. TO STA.

F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 145
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	







FILE NAME =	USER NAME = TKluengel	DESIGNED - PKT/VP	REVISED -
D160C31-SHT-DRAIN03.dgn		DRAWN - PKT/VP	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

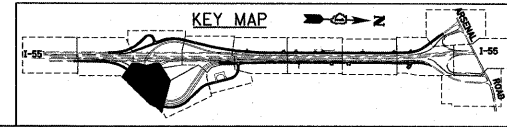
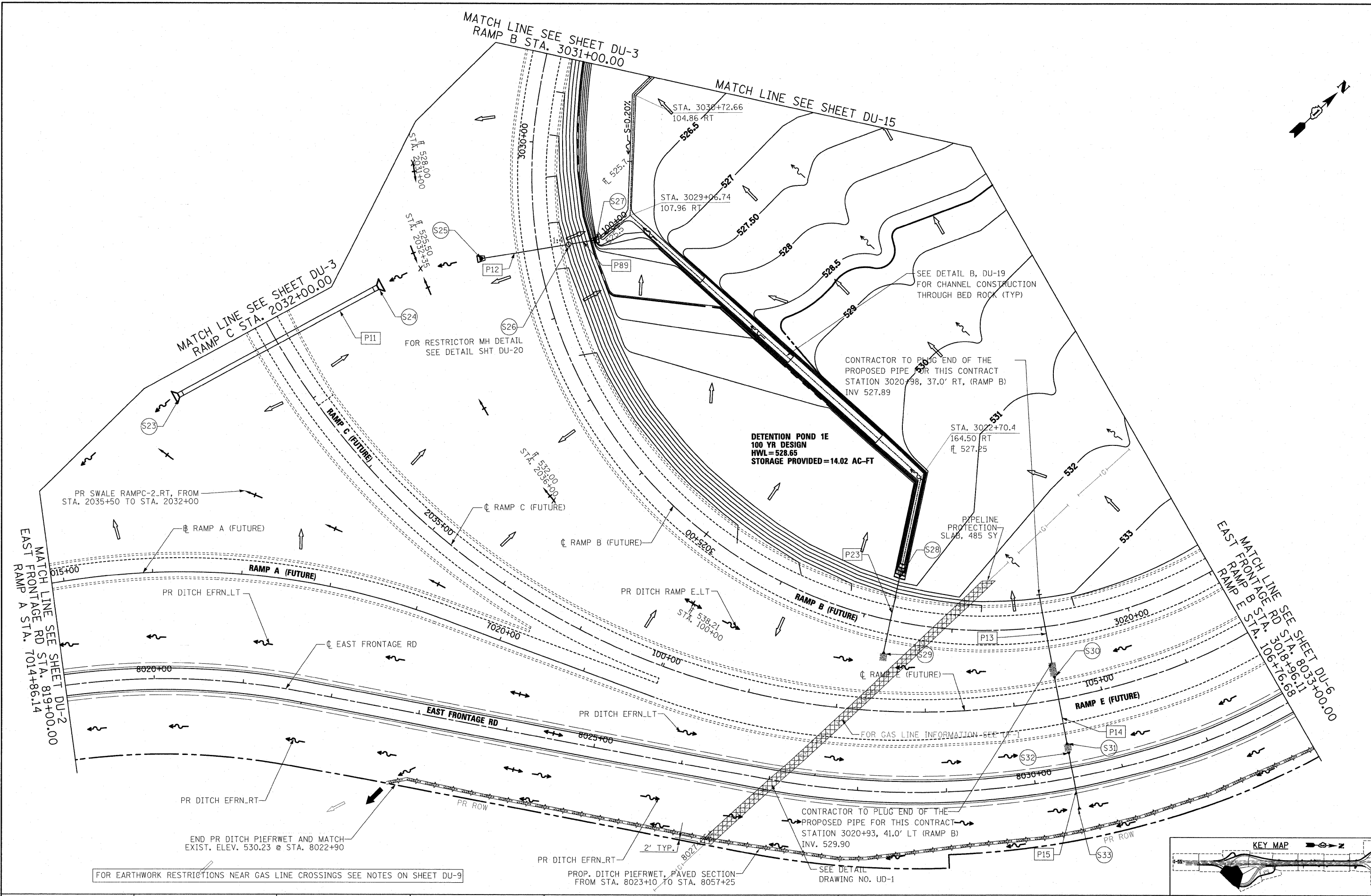
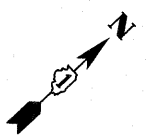
PLOT SCALE = 1:50	DATE - 12/18/09
PLOT DATE = 12/11/2009	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

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

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



FOR EARTHWORK RESTRICTIONS NEAR GAS LINE CROSSINGS SEE NOTES ON SHEET DU-9

FILE NAME = D:\60C31-SHT-DRAIN\4.dgn  
 USER NAME = jlatour  
 DESIGNED - PKT/VP  
 DRAWN - PKT/VP  
 CHECKED - CL  
 PLOT DATE = 1/19/2010

REVISIONS  
 REVISION -  
 REVISION -  
 REVISION -  
 REVISION -

DATE = 12/18/09

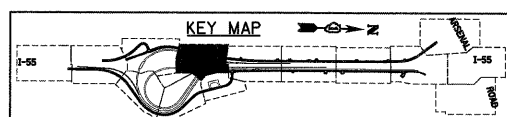
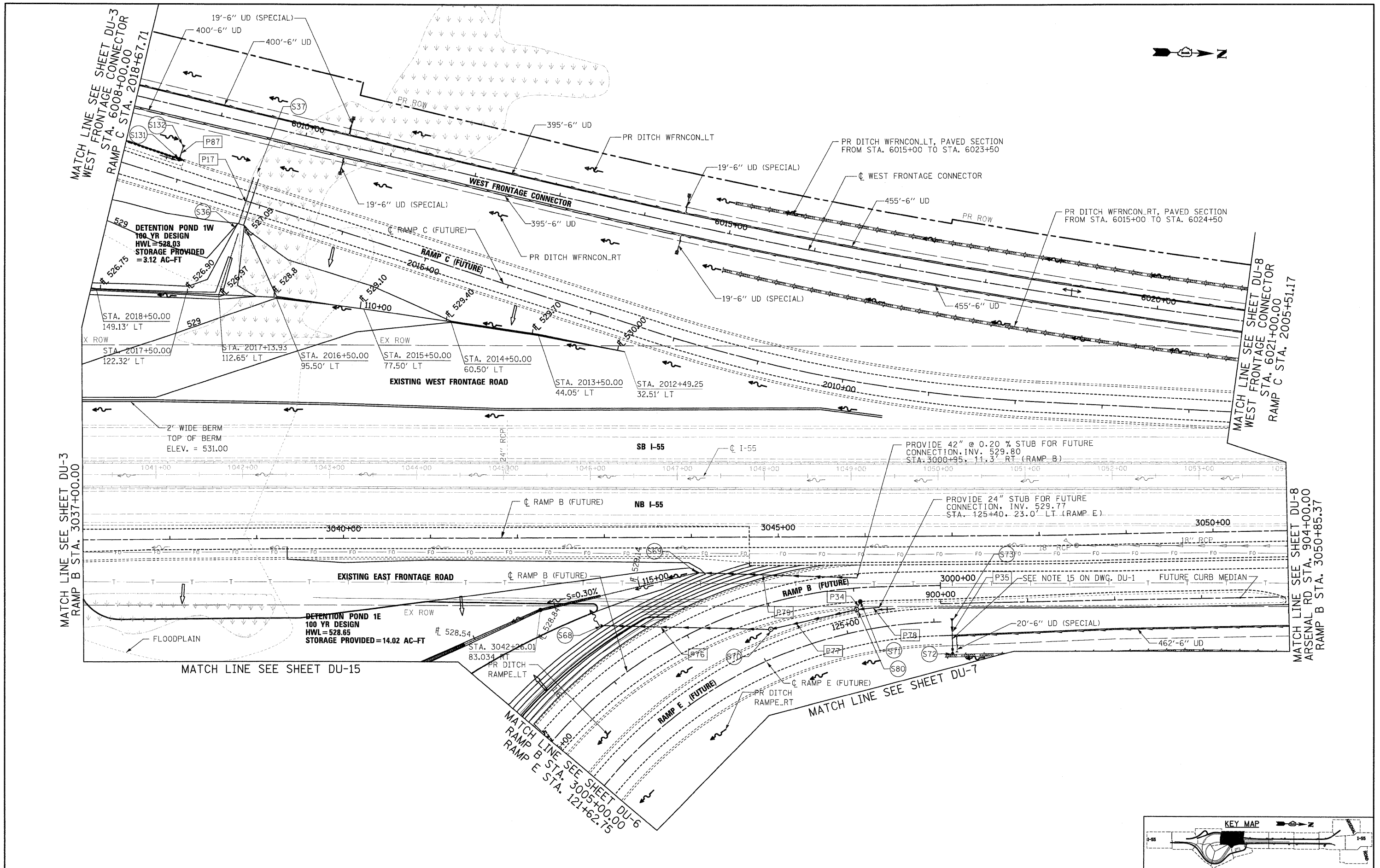
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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				

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

FINAL



FILE NAME = D:\60031-SHT-DRAIN\85.dgn	USER NAME = TKluigel	DESIGNED - PKT/VP	REvised -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITY PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 148	
PLOT SCALE = 1:50	CHECKED - CL	REvised -	SCALE: 1"=50'			SHEET NO. 5 OF 22 SHEETS	STA. TO STA.	CONTRACT NO. 60C31			
PLOT DATE = 12/14/2009	DATE - 12/18/09	REvised -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



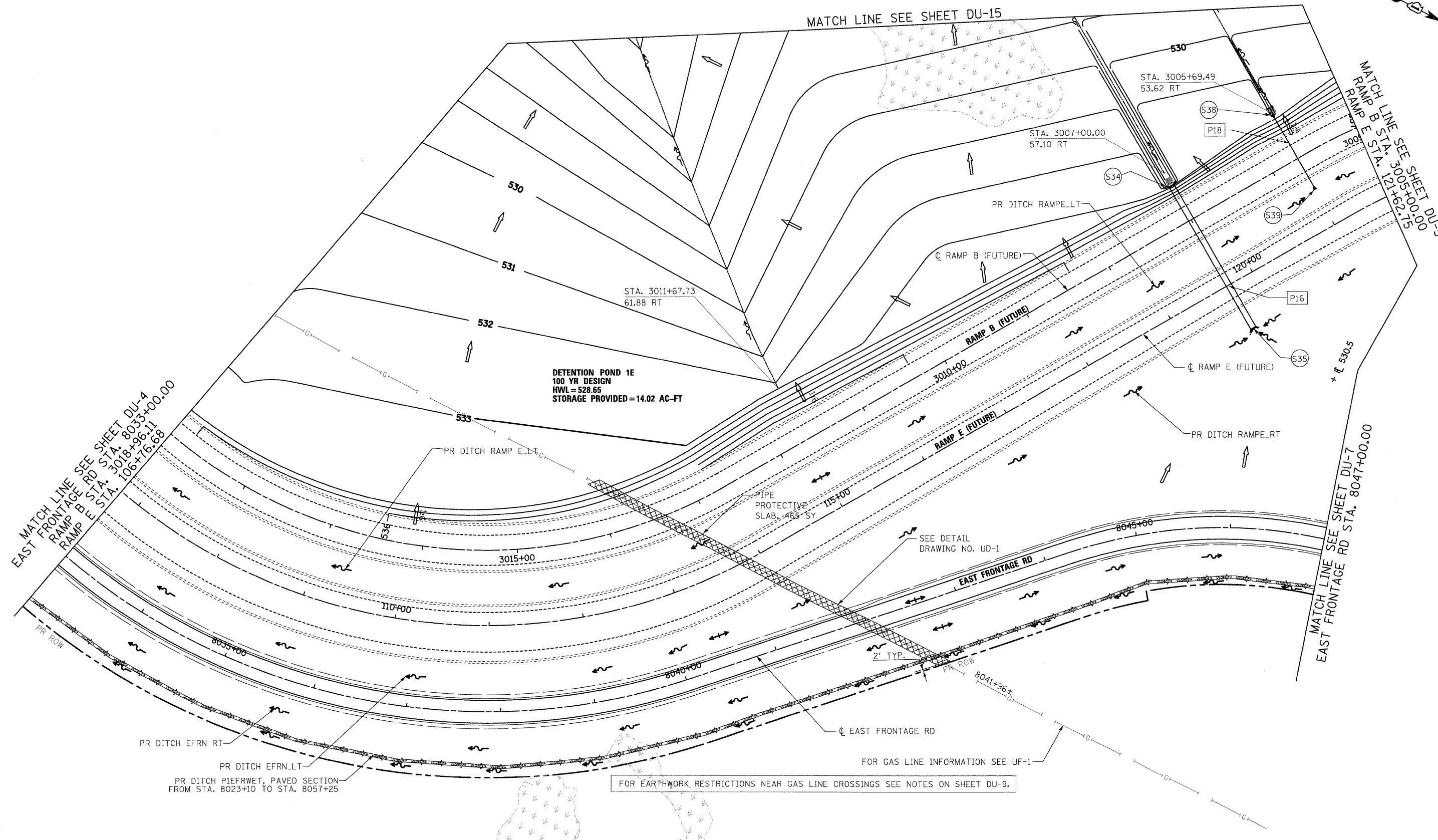
MATCH LINE SEE SHEET DU-15

MATCH LINE SEE SHEET DU-5  
RAMP B STA. 3005+00.00  
RAMP E STA. 121+92.75

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

MATCH LINE SEE SHEET DU-7  
EAST FRONTAGE RD STA. 8047+00.00

DETENTION POND 1E  
100 YR DESIGN  
HWL = 528.65  
STORAGE PROVIDED = 14.02 AC-FT



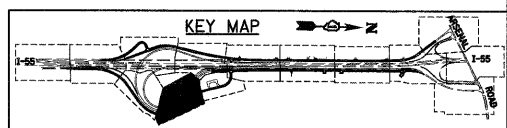
PR DITCH EFRN RT  
PR DITCH EFRN LT  
PR DITCH P1EFRWET, PAVED SECTION  
FROM STA. 8023+10 TO STA. 8057+25

FOR EARTHWORK RESTRICTIONS NEAR GAS LINE CROSSINGS SEE NOTES ON SHEET DU-9.

FOR GAS LINE INFORMATION SEE UF-1

SEE DETAIL  
DRAWING NO. UD-1

PIPE PROTECTIVE  
SLAB, 465 SY



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

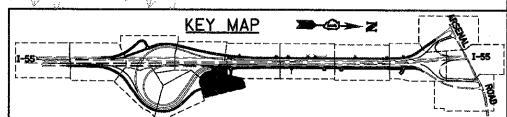
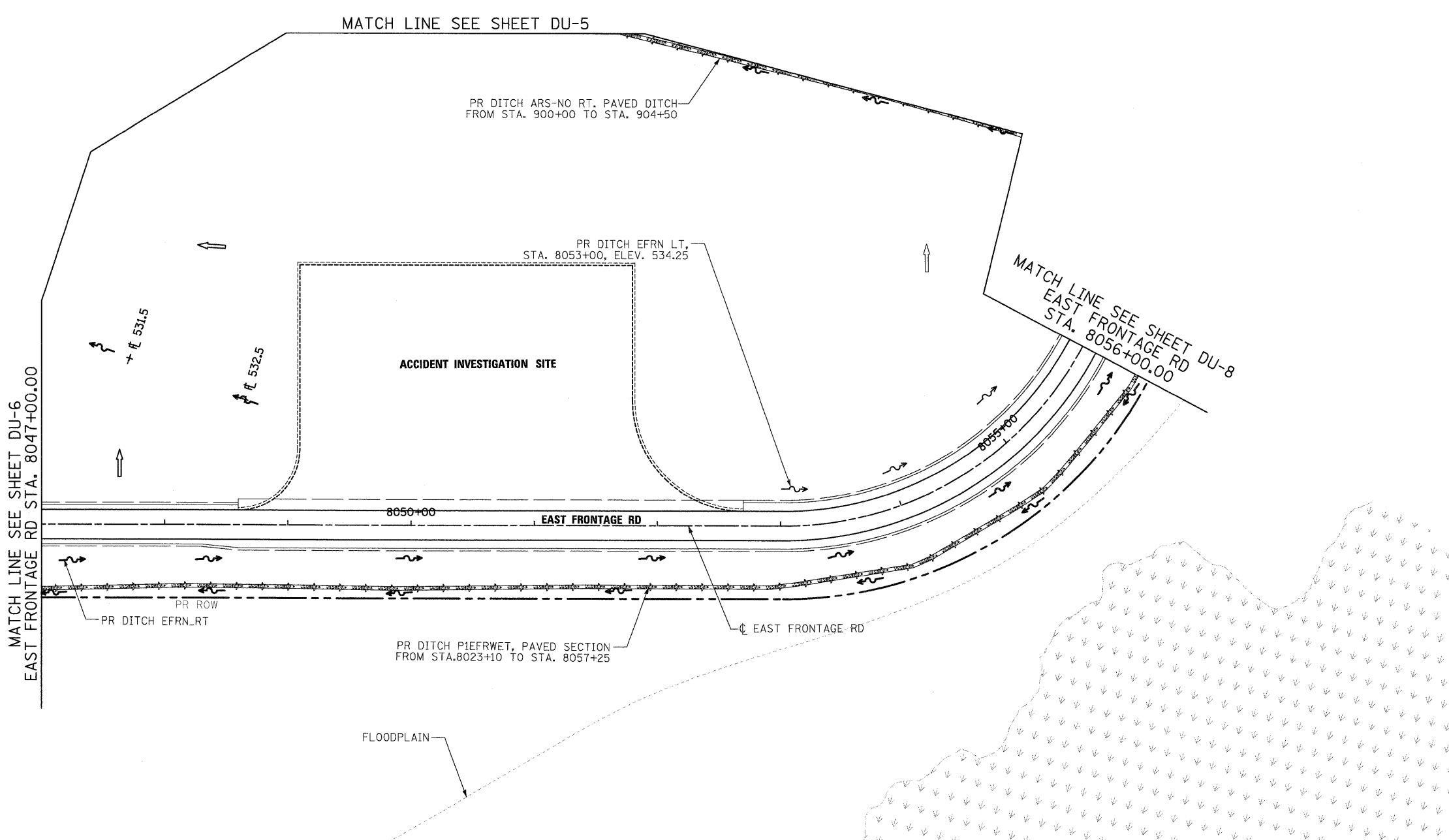
FILE NAME = D162C31-SHT-DRAIN05.dgn	USER NAME = Tkluegel	DESIGNED - PKT/VP	REVISED -
		DRAWN - PKT/VP	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

SCALE: 1"=50' SHEET NO. 6 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	149
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SINGH & ASSOCIATES, INC.  
 300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 625-0240  
 FAX: (312) 625-8449  
 CONSULTING ENGINEERS

FILE NAME = D160C31-SHT-DRAIN07.dgn	USER NAME = TKluangel	DESIGNED - PKT/VP	REVISED -
		DRAWN - PKT/VP	REVISED -
PLOT SCALE = 1:50		CHECKED - CL	REVISED -
PLOT DATE = 12/14/2009		DATE - 12/18/09	REVISED -

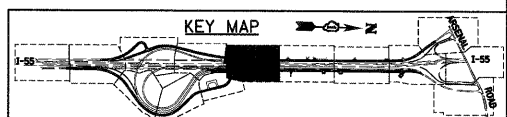
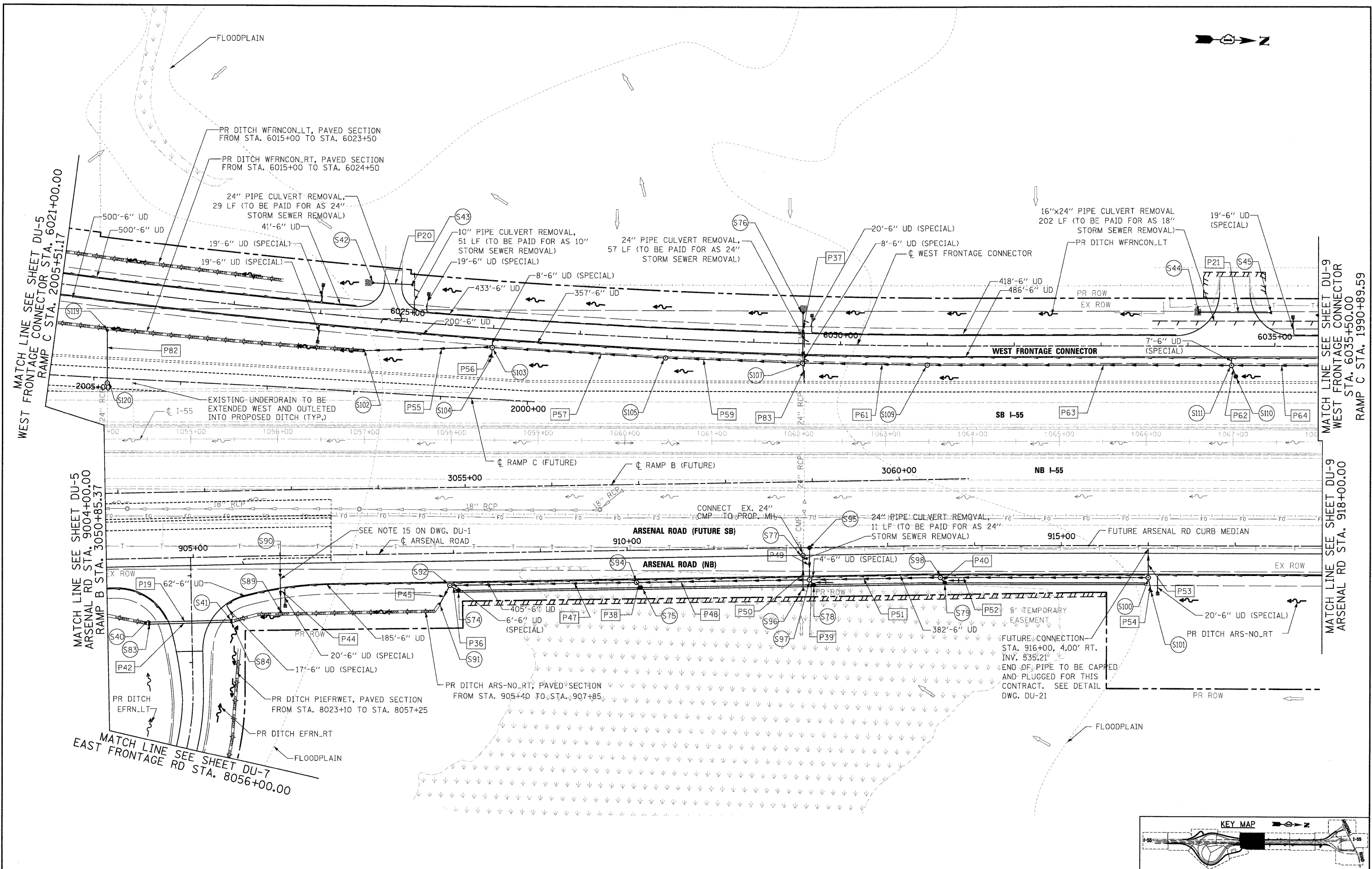
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

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

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

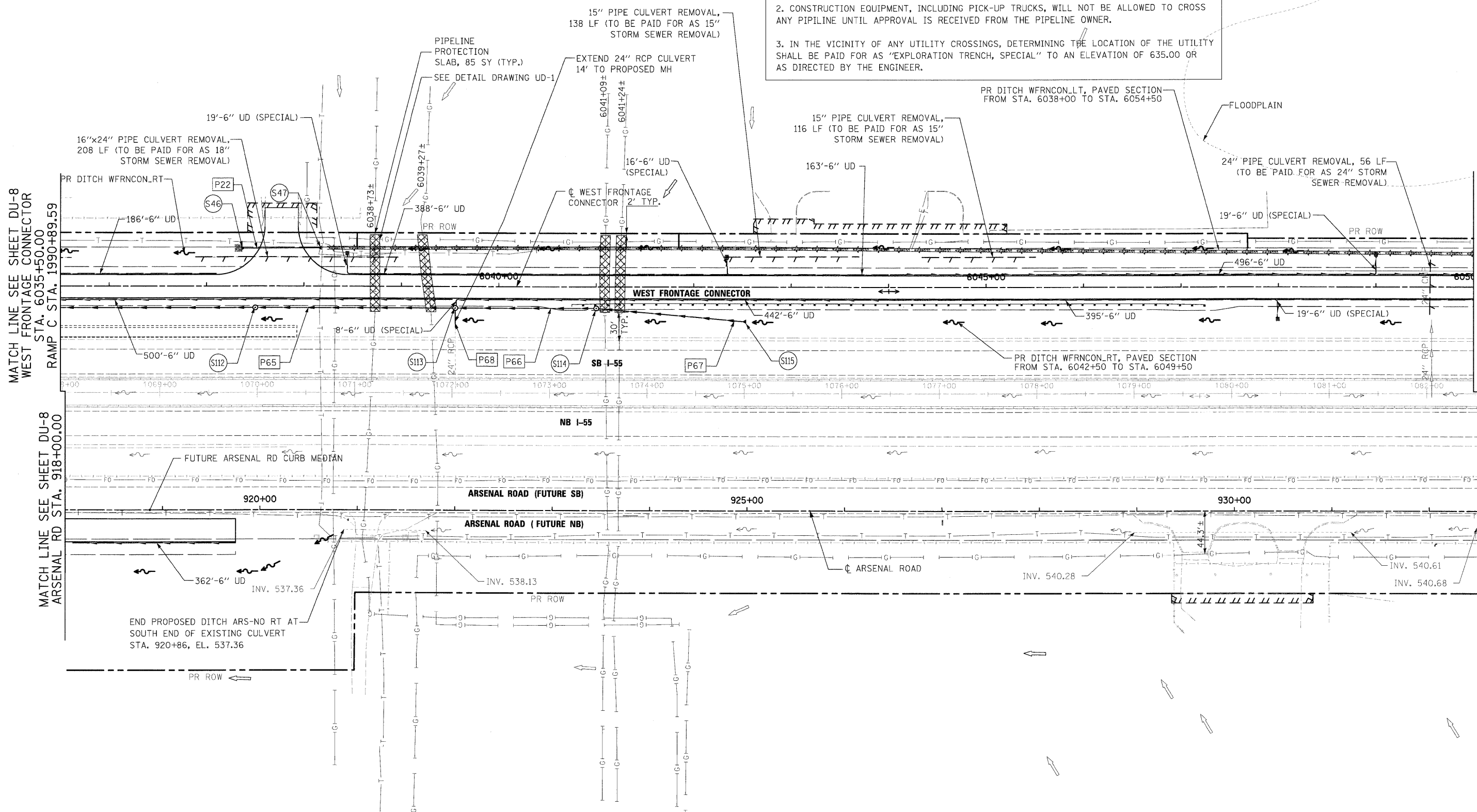




FILE NAME = 0160C31-SHT-DRAIN08.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITY PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 151		
PLOT SCALE = 1"=50'	DRAWN - VP/PTK	CHECKED - CL	REVISD -			SCALE: 1"=50' SHEET NO. 8 OF 22 SHEETS STA. TO STA.		CONTRACT NO. 60C31				
PLOT DATE = 12/14/2009	DATE - 12/18/09	REVISD -	REVISD -			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.

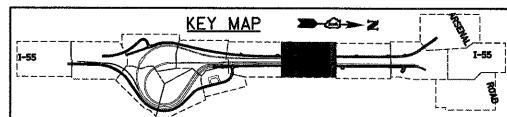


MATCH LINE SEE SHEET DU-8  
WEST FRONTAGE CONNECTOR  
STA. 6035+50.00  
RAMP C STA. 1990+89.59

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



SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 625-0240  
FAX: (312) 625-8449

FILE NAME = D162C31-SHT-DRAIN09.dgn	USER NAME = TKluigel	DESIGNED - VP/PTK	REVISED -
		DRAWN - VP/PTK	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

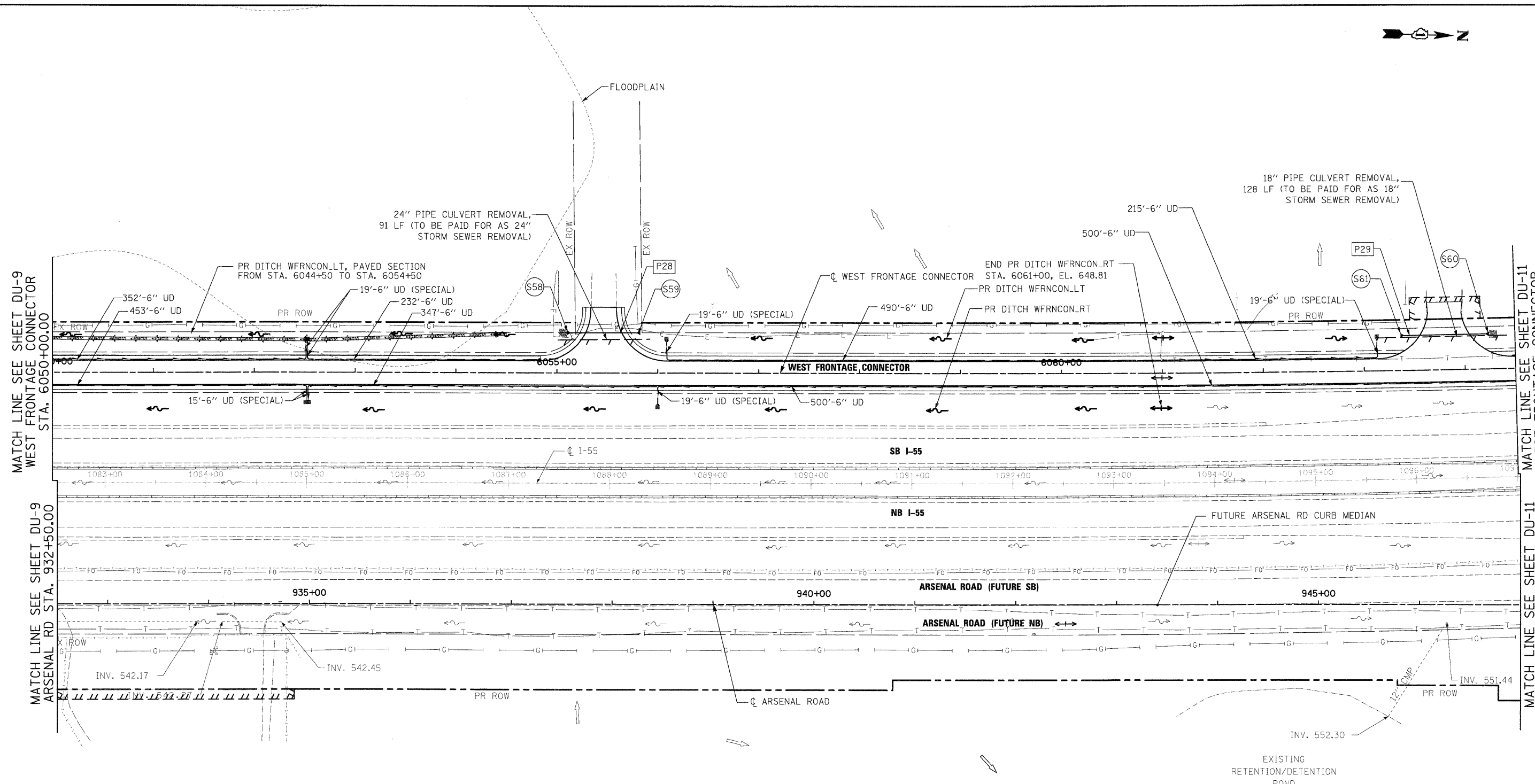
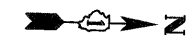
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN

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

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

FINAL

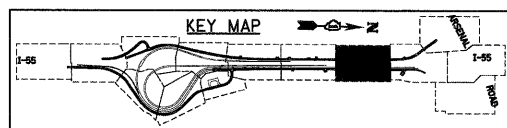


MATCH LINE SEE SHEET DU-9  
WEST FRONTAGE CONNECTOR  
STA. 6050+00.00

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

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

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



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

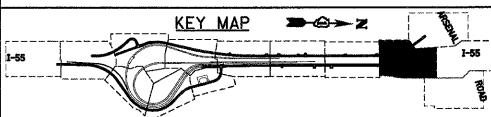
FILE NAME = D162C31-SHT-DRAIN10.dgn	USER NAME = TKLuigel	DESIGNED - VP/PTK	REVISED -
		DRAWN - VP/PTK	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

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

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



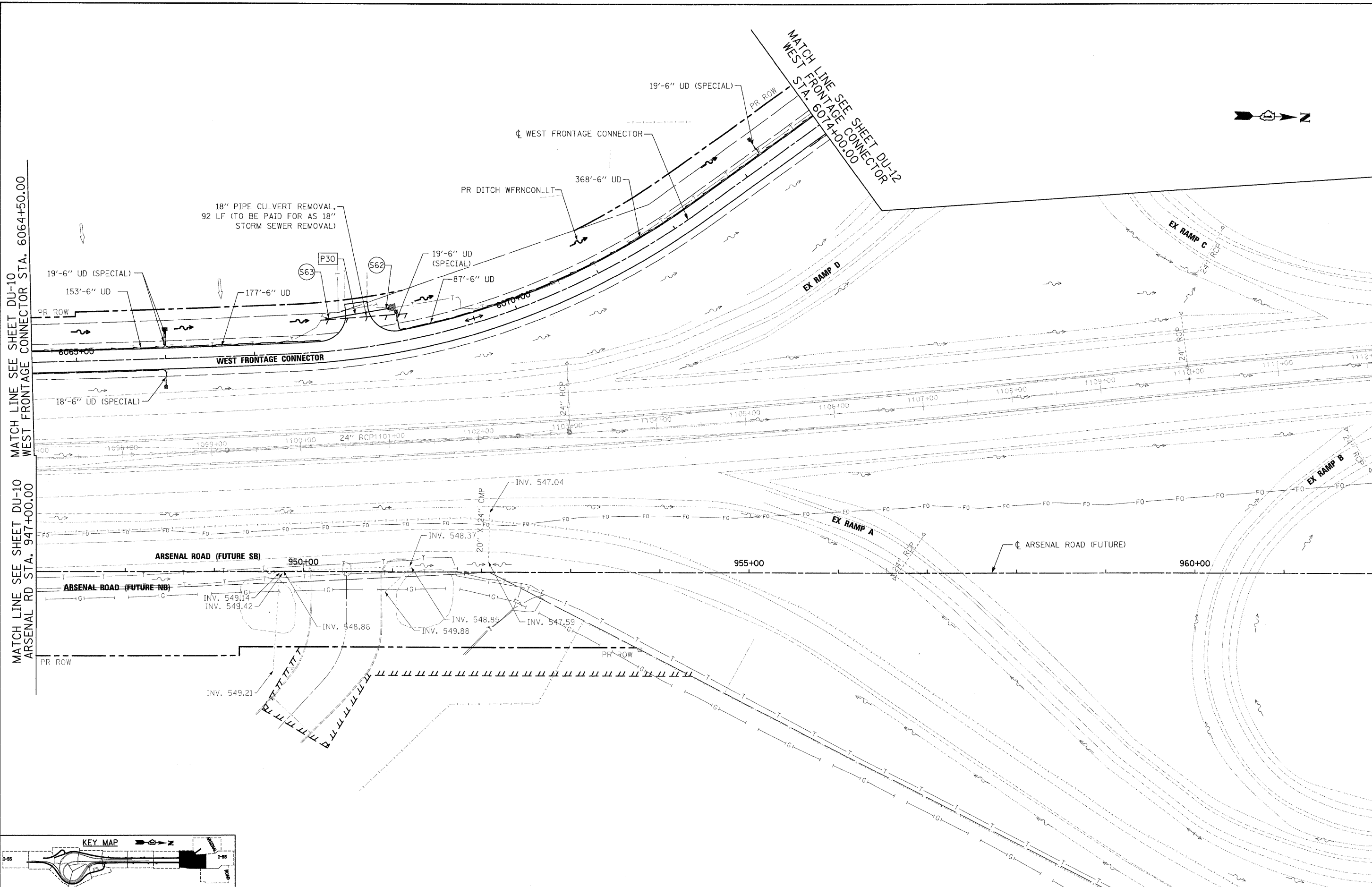
FILE NAME = D160C31-SHT-DRAIN11.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -
PLOT SCALE = 1:50	CHECKED - CL	DRAWN - VP/PTK	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISIONS	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN**

SCALE: 1"=50' SHEET NO. 11 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	154
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

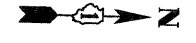
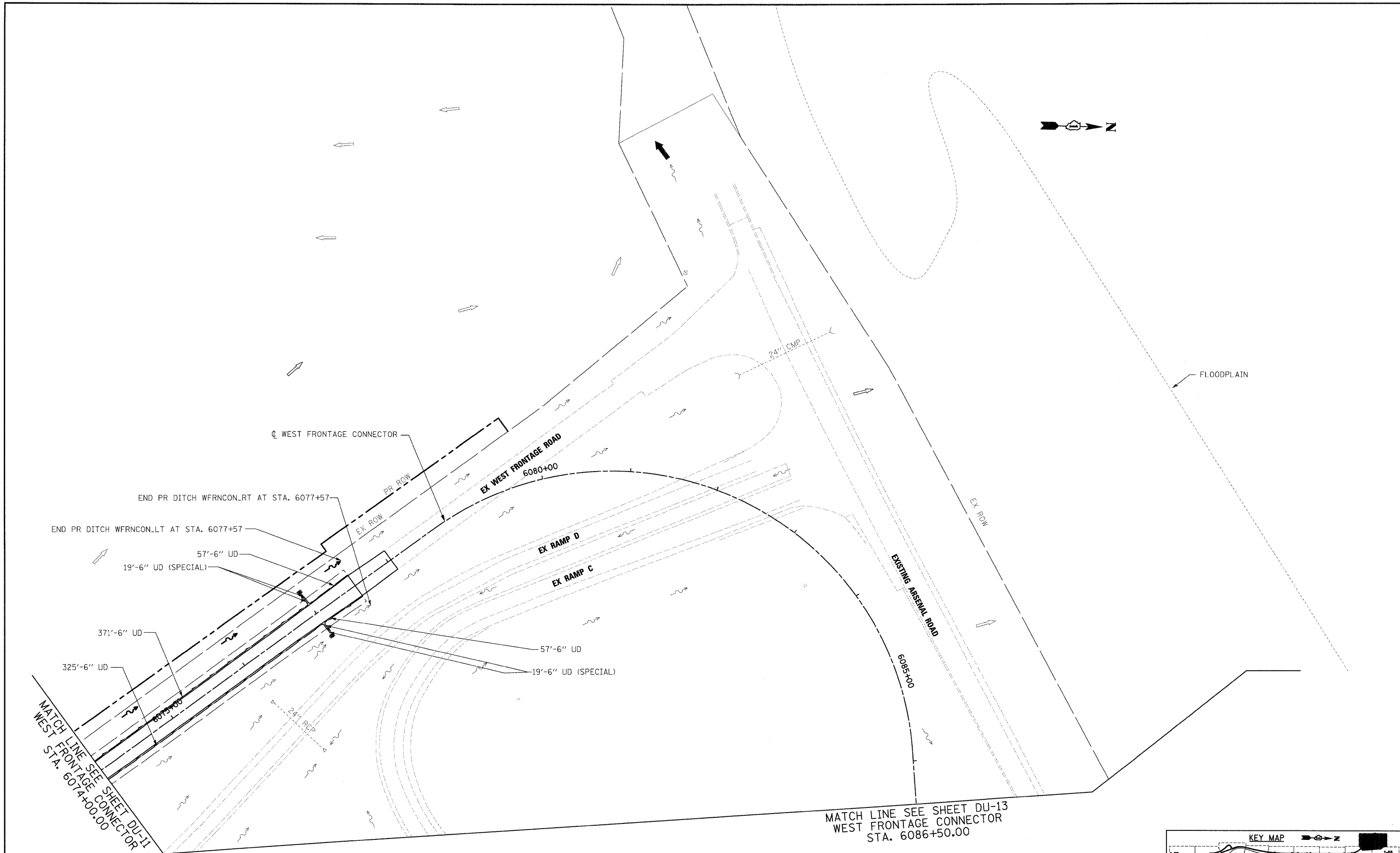


MATCH LINE SEE SHEET DU-13  
 ARSENAL RD STA. 9062+00.00

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

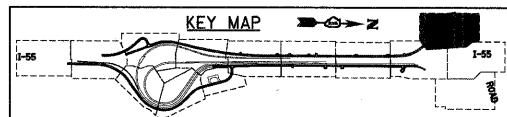
MATCH LINE SEE SHEET DU-10  
 ARSENAL RD STA. 947+00.00

MATCH LINE SEE SHEET DU-12  
 WEST STA. 6074+00.00



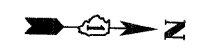
MATCH LINE SEE SHEET DU-11  
 WEST FRONTAGE CONNECTOR  
 STA. 6074+00.00

MATCH LINE SEE SHEET DU-13  
 WEST FRONTAGE CONNECTOR  
 STA. 6086+50.00

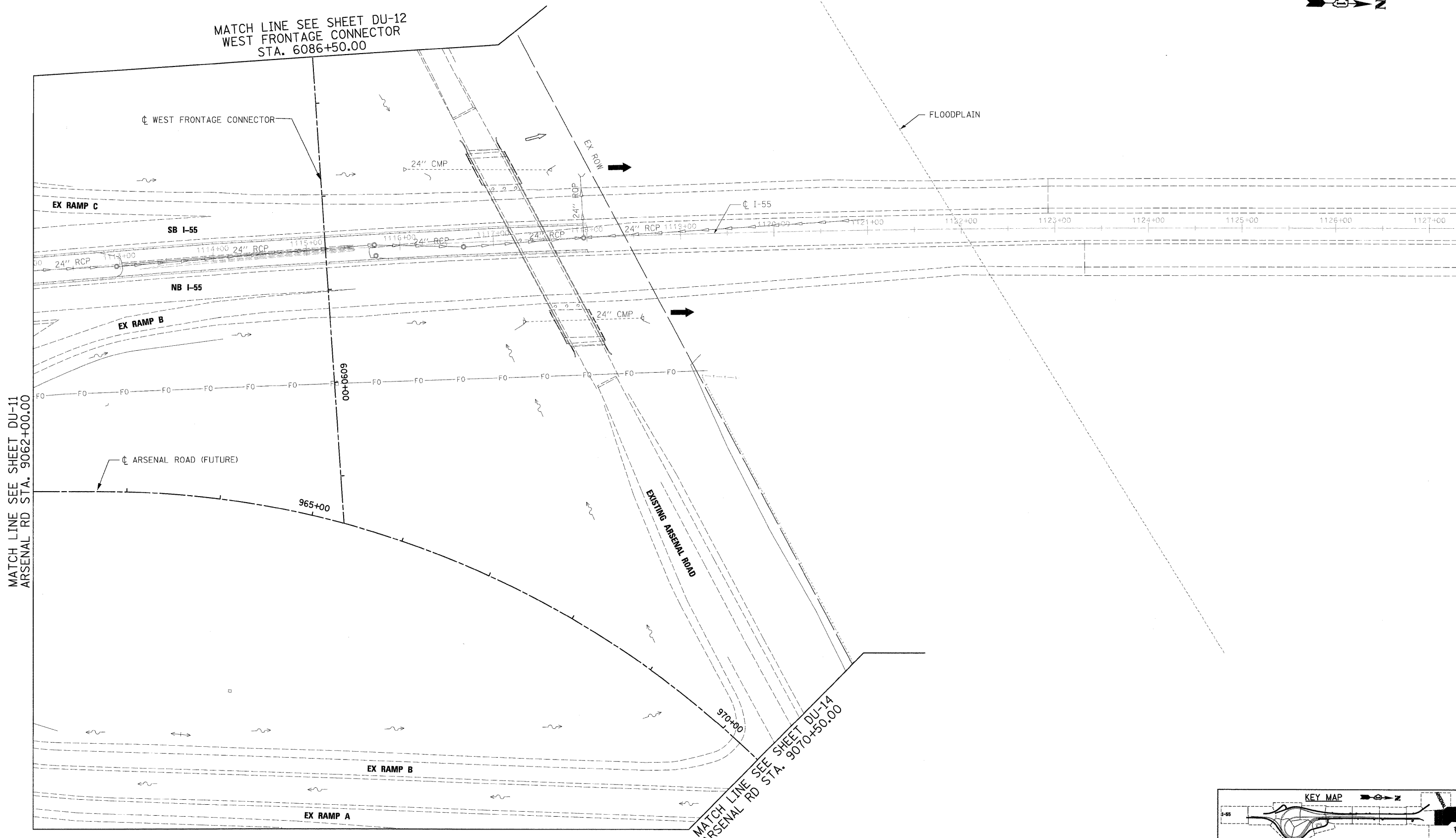


FILE NAME = D168C31-SHT-DRAIN12.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITY PLAN</b>			F.A.I RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 155
	PLOT SCALE = 1:50	DRAWN - VP/PTK	REVISED -		SCALE: 1"=50'	SHEET NO. 12 OF 22 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31			
	PLOT DATE = 12/11/2009	CHECKED - CL	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 12/18/09	REVISED -									





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

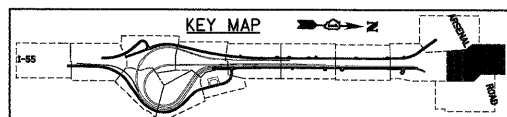
SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 629-0240  
 FAX: (312) 629-8449

FILE NAME = D162C31-SHT-DRAIN13.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -
		DRAWN - VP/PTK	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

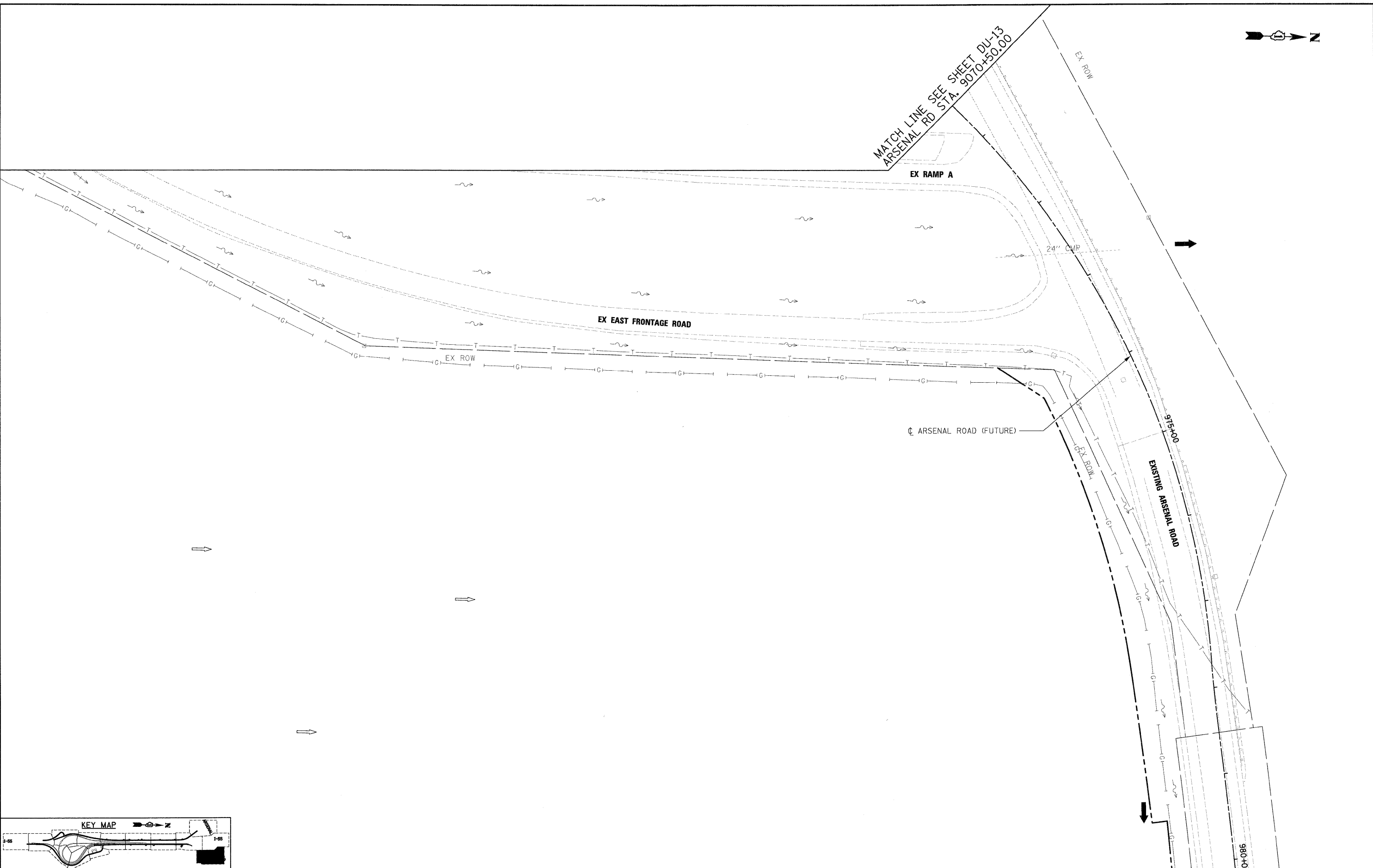
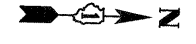
**DRAINAGE AND UTILITY PLAN**

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

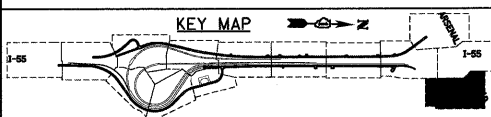


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	156
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**FINAL**

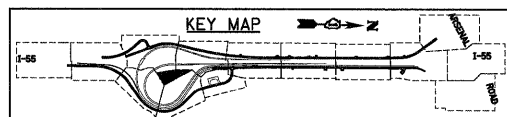
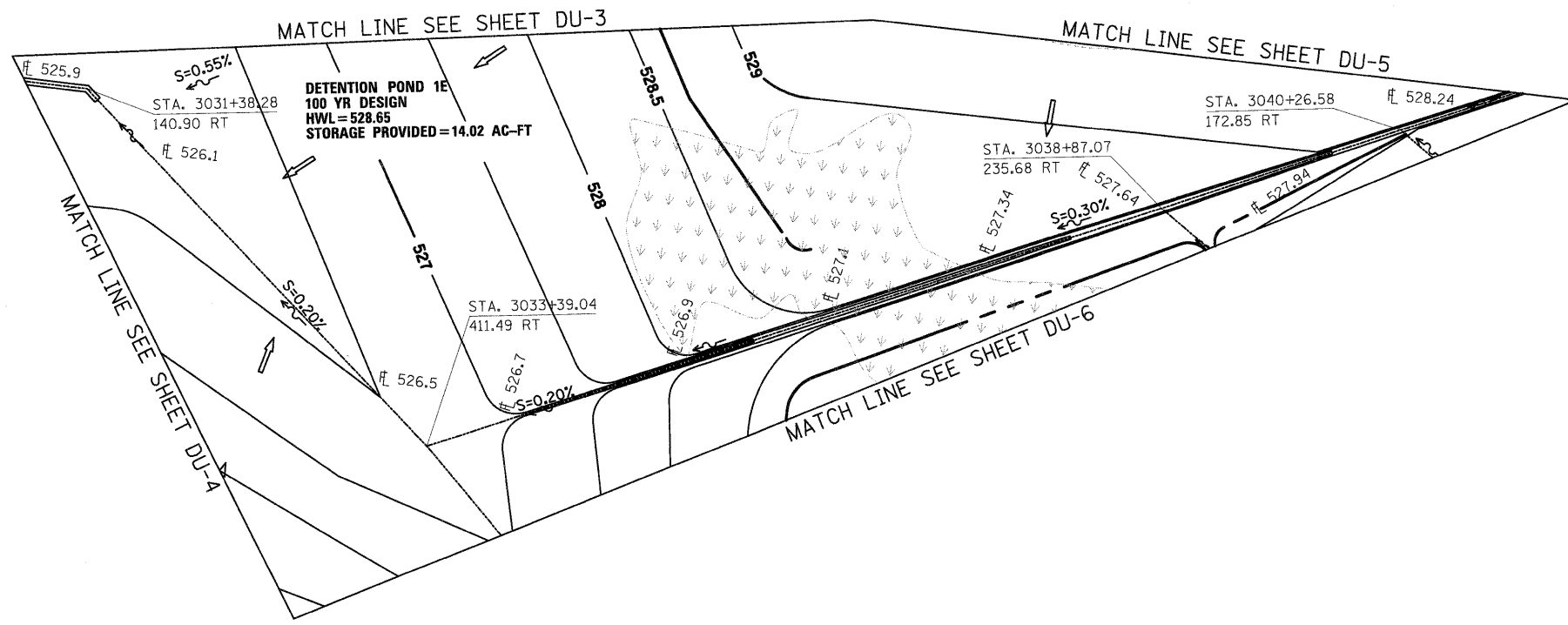


SINGH 300 W. ADAMS ST. CHICAGO, IL 60606  
 SINGH & ASSOCIATES, INC. TEL: (312) 629-0240  
 CONSULTING ENGINEERS FAX: (312) 629-8449



FILE NAME = D160C31-SHT-DRAIN14.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITY PLAN</b>			F.A.I RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 157
	PLOT SCALE = 1:50	DRAWN - VP/PTK	REVISED -		SCALE: 1"=50'	SHEET NO. 14 OF 22 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31			
	PLOT DATE = 12/11/2009	CHECKED - CL	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 12/18/09	REVISED -									

**FINAL**



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

FILE NAME = D160C31-SHT-DRAIN15.dgn	USER NAME = TKluegel	DESIGNED - VP/PTK	REVISED -
		DRAWN - VP/PTK	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

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

**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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

DRAINAGE STRUCTURE INFORMATION TABLE

Table with columns: STRUCT. NO., DRAWING NUMBER, ROAD NAME, STATION, OFFSET (FT), TYPE OF STRUCTURE, FR. AND LID, RIM ELEV., INVERT ELEVATIONS. Includes rows S1 through S67 with detailed structure information.

DRAINAGE STRUCTURE INFORMATION TABLE

Table with columns: STRUCT. NO., DRAWING NUMBER, ROAD NAME, STATION, OFFSET (FT), TYPE OF STRUCTURE, FR. AND LID, RIM ELEV., INVERT ELEVATIONS. Includes rows S68 through S132 with detailed structure information.

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

FILE NAME = D:\160\C31-SHT-DRAIN16.dgn USER NAME = Tkluegel DESIGNED - 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

DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE

SCALE: NONE SHEET NO. 16 OF 22 SHEETS STA. TO STA.

F.A.I.R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO. 55 (99-1&2)AC-3 WILL 524 159 CONTRACT NO. 60C31

**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 EQRS 15	P CUL CL A 2 EQRS 18	P CUL CL A 2 EQRS 24	P CUL CL A 2 EQRS 24	P CUL CL A 6 EQRS 36	P CUL CL A 2 EQRS 48	P CUL CL A 6 EQRS 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)	(%)		
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															177										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	*57' 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			69																						3.61	TEMP. CULVERT PIPE	
P24																										NOT USED	
P25																										NOT USED	
P26																										NOT USED	
P27																										NOT USED	
P28									65																1.45		
P29									80																0.39		
P30									68																0.50		
P31																										NOT USED	
P32									10																1.50	NOT USED	
P33																										NOT USED	
P34																									2.00		
P35										42															3.07	TEMP. CULVERT PIPE	
P36																									1.00		
P37																									0.54		
P38																									1.25	NOT USED	
P39																									1.25		
P40																									1.25		
P41																											
P42						90																			0.19		
P43																										NOT USED	
P44										43															1.00	TEMP. CULVERT PIPE	
P45																									0.20		
P46																										NOT USED	
P47																									0.19		
P48																									0.19		
P49										33															0.30	TEMP. CULVERT PIPE	
P50								33																	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.

SINGH & ASSOCIATES, INC. CONSULTING ENGINEERS  
 300 W. ADAMS ST. CHICAGO, IL 60605  
 TEL: (312) 629-0240 FAX: (312) 629-8449

FILE NAME = D:\60C31-SHT-DRAIN17.dgn	USER NAME = TKluogel	DESIGNED - VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 160		
PLOT SCALE = 1:50	PLOT DATE = 12/11/2009	DRAWN - PTK	REVISED -			SCALE: NONE	SHEET NO. 17 OF 22 SHEETS	STA. TO STA.	CONTRACT NO. 60C31			
CHECKED - CL	DATE - 12/18/09	REVISIED -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

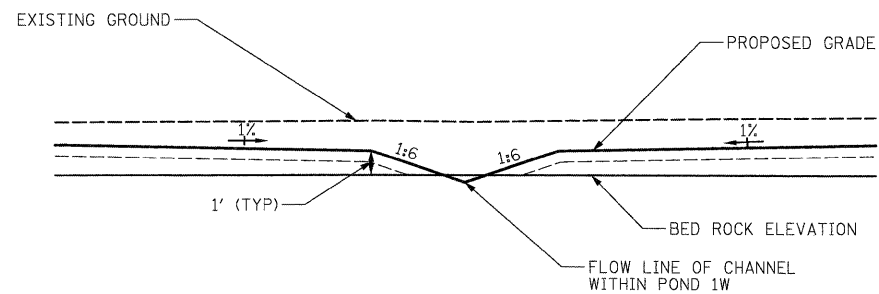


**DRAINAGE PIPE INFORMATION TABLE**

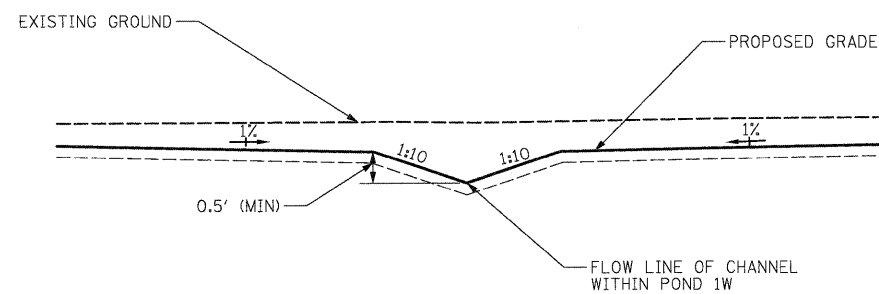
PIPE NO.	P CUL CL A 1 EQRS 54	P CUL CL A 1 EQRS 48	P CUL CL A 1 EQRS 42	P CUL CL A 1 EQRS 36	P CUL CL A 1 EQRS 30	P CUL CL A 1 EQRS 27	P CUL CL A 2 EQRS 18	P CUL CL A 2 EQRS 15	P CUL CL A 1 EQRS 18	P CUL CL A 2 EQRS 18	P CUL CL A 2 EQRS 24	P CUL CL A 6 EQRS 24	P CUL CL A 1 EQRS 36	P CUL CL A 2 EQRS 48	P CUL CL A 6 EQRS 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 S53 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			
<b>TOTAL</b>	<b>152</b>	<b>75</b>	<b>136</b>	<b>118</b>	<b>259</b>	<b>74</b>	<b>33</b>	<b>0</b>	<b>282</b>	<b>118</b>	<b>68</b>	<b>235</b>	<b>75</b>	<b>188</b>	<b>215</b>	<b>19</b>	<b>62</b>	<b>15</b>	<b>91</b>	<b>374</b>	<b>1307</b>	<b>950</b>	<b>66</b>	<b>350</b>	<b>179</b>			
P51																											0.19	
P52																						150					0.19	
P53																								33			0.33	
P54																								13			0.54	
P55																								150			0.20	
P56																9											2.00	
P57																								200			0.20	
P58																												NOT USED
P59																											0.26	
P60																												NOT USED
P61																											0.26	
P62																10											2.00	
P63																											0.50	
P64																											0.50	
P65																											0.50	
P66																											0.50	
P67																											0.50	
P68																											6.78	
P69																												NOT USED
P70																												NOT USED
P71																												NOT USED
P72																												NOT USED
P73																												NOT USED
P74																												NOT USED
P75																												NOT USED
P76																											0.17	
P77																											0.15	
P78																											0.15	
P79																											0.20	
P80																												NOT USED
P81																												NOT USED
P82																											0.94	
P83																												MATCH EX. INV. / CONNECT TO PR. MH
P84																											3.57	
P85																											3.12	
P86																											3.12	
P87																											1.92	
P88																											0.13	
P89																29											0.14	

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

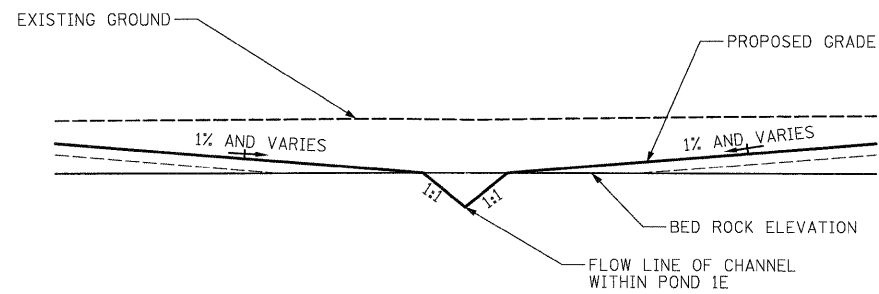
FILE NAME = D:\600C31-SHT-DRAIN18.dgn	USER NAME = TKluegel	DESIGNED - VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE STRUCTURE AND PIPE INFORMATION TABLE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 161
PLOT SCALE = 1:50	CHECKED - CL	REVISED -	CONTRACT NO. 60C31							
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT				
SCALE: NONE		SHEET NO. 18 OF 22 SHEETS				STA. TO STA.				



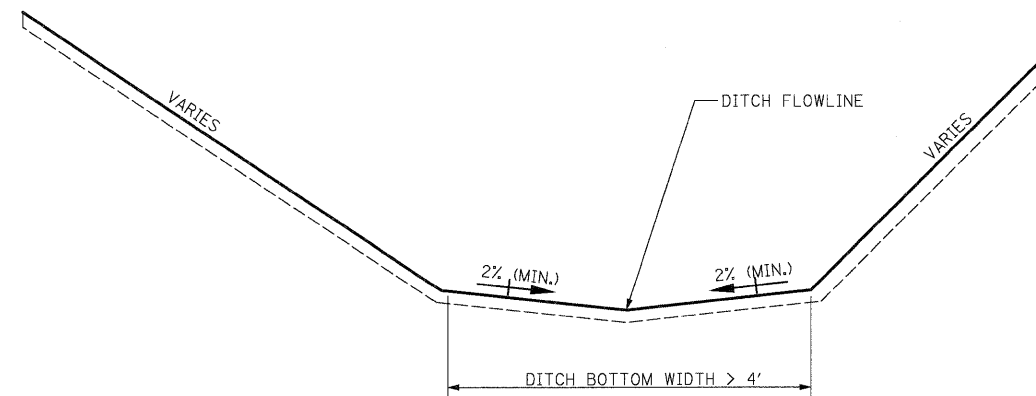
**DETAIL A**  
**CHANNEL THROUGH BED ROCK- POND 1W**  
 NOT TO SCALE



**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 INFORMATIONS, REFER TO PROPOSED CROSS SECTIONS.

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

FILE NAME = 0160C31-SHT-DRAIN19.dgn	USER NAME = TKluegl	DESIGNED - PKT	REVISED -
		DRAWN - PKT	REVISED -
		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

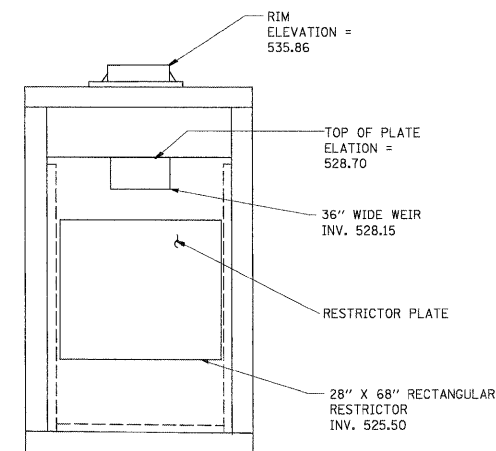
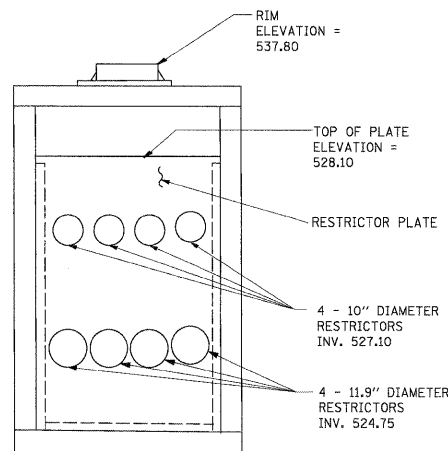
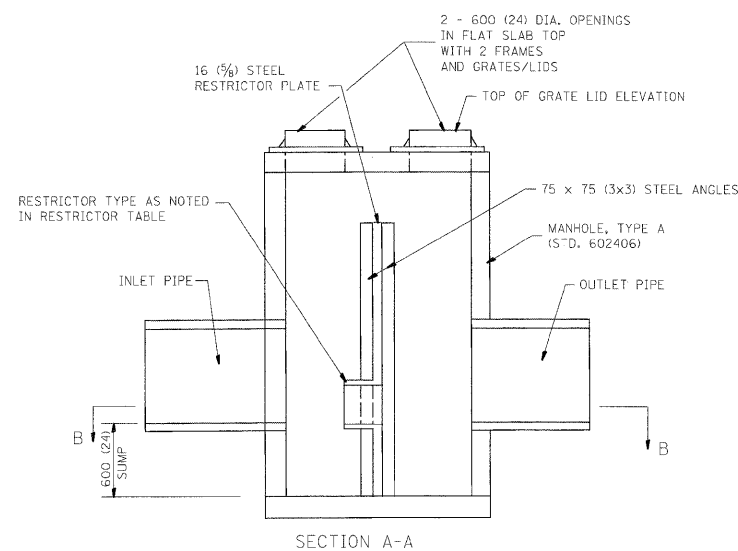
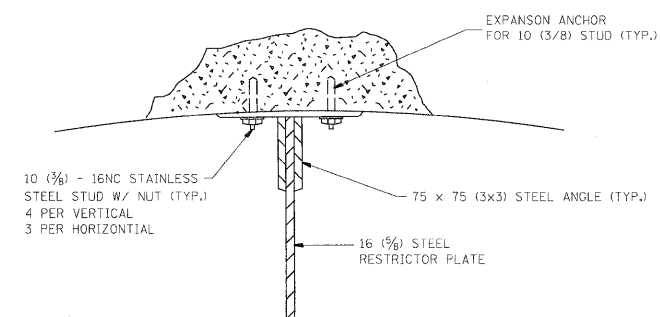
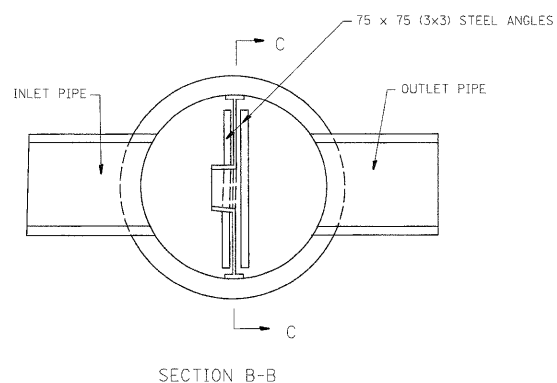
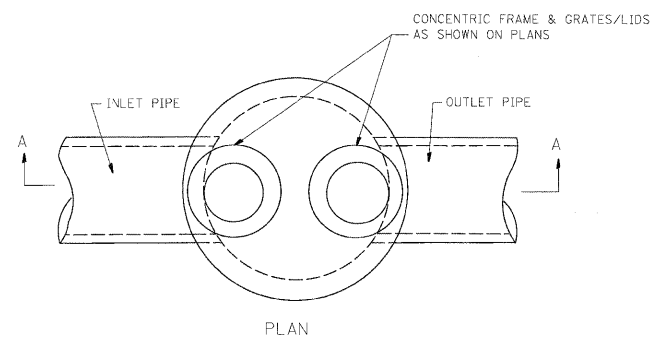
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DRAINAGE DETAILS**

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

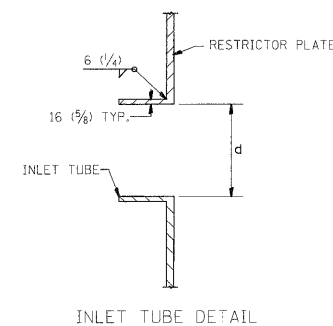
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 162
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**FINAL**

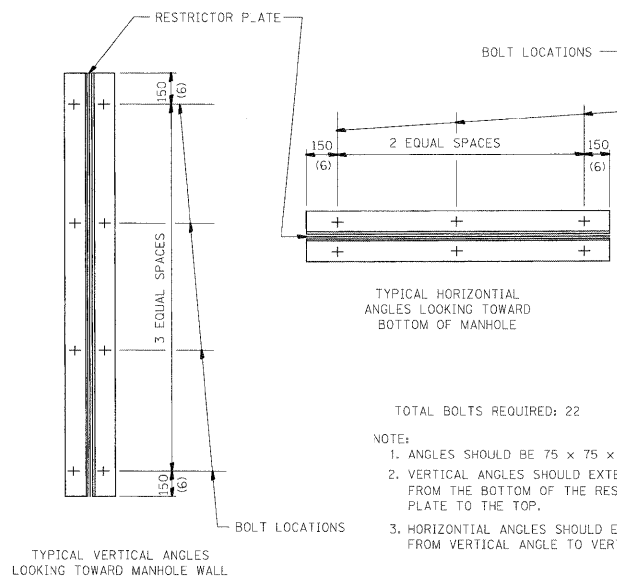


NOTES:

- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
- ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
- 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



- NOTE:
- ANGLES SHOULD BE 75 x 75 x 10 (3x3x3/8)
  - VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
  - 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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

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

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

FILE NAME = D162C31-SHT-DRAIN20.dgn

USER NAME = TKJuegel  
PLOT SCALE = 1:50  
PLOT DATE = 12/11/2009

DESIGNED - PKT  
DRAWN - PKT  
CHECKED - CL  
DATE - 12/18/09

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RESTRICTOR MANHOLE DETAIL

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

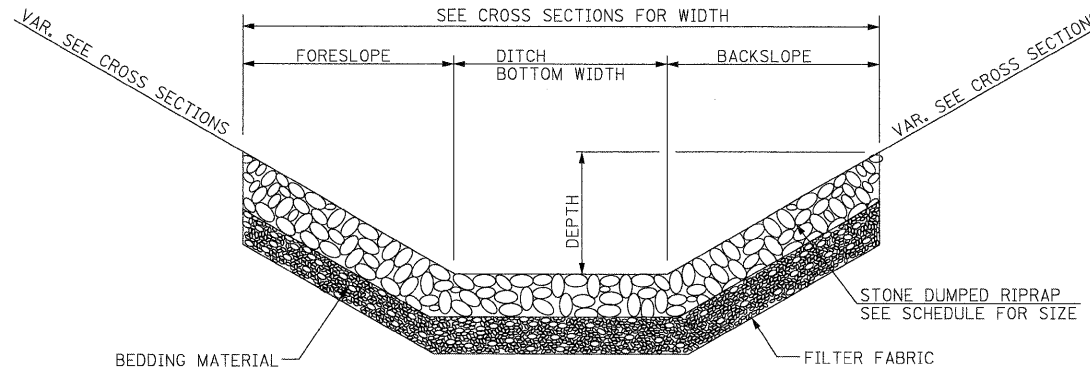
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	163
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**NOTES:**

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

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'

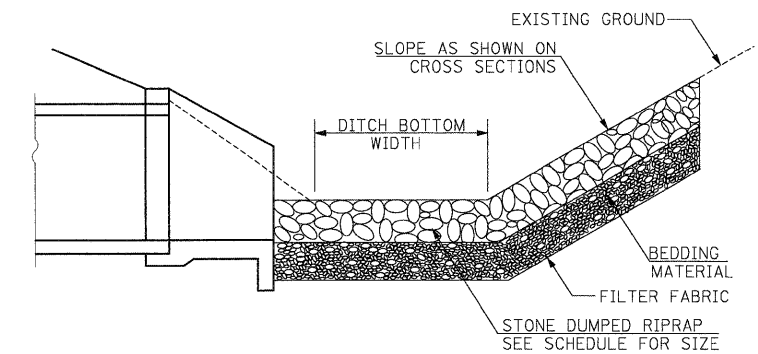
\* SIDE WIDTHS IN TRANSITIONAL AREAS, WILL VARY ACCORDING TO SIDE SLOPE.



**SECTION A-A**

**RIPRAP AT OUTLET ENDS OF CULVERTS**

NOT TO SCALE

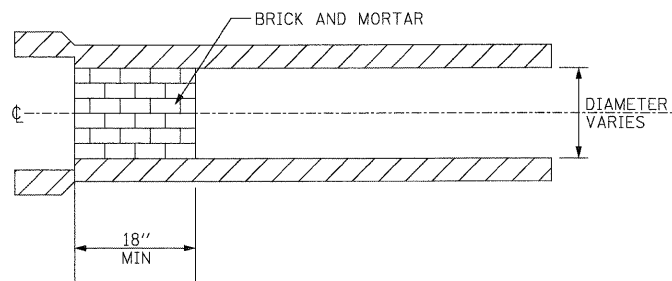


**SECTION B-B**

**RIPRAP AT OUTLET ENDS OF CULVERTS PERPENDICULAR TO DITCH**

NOT TO SCALE

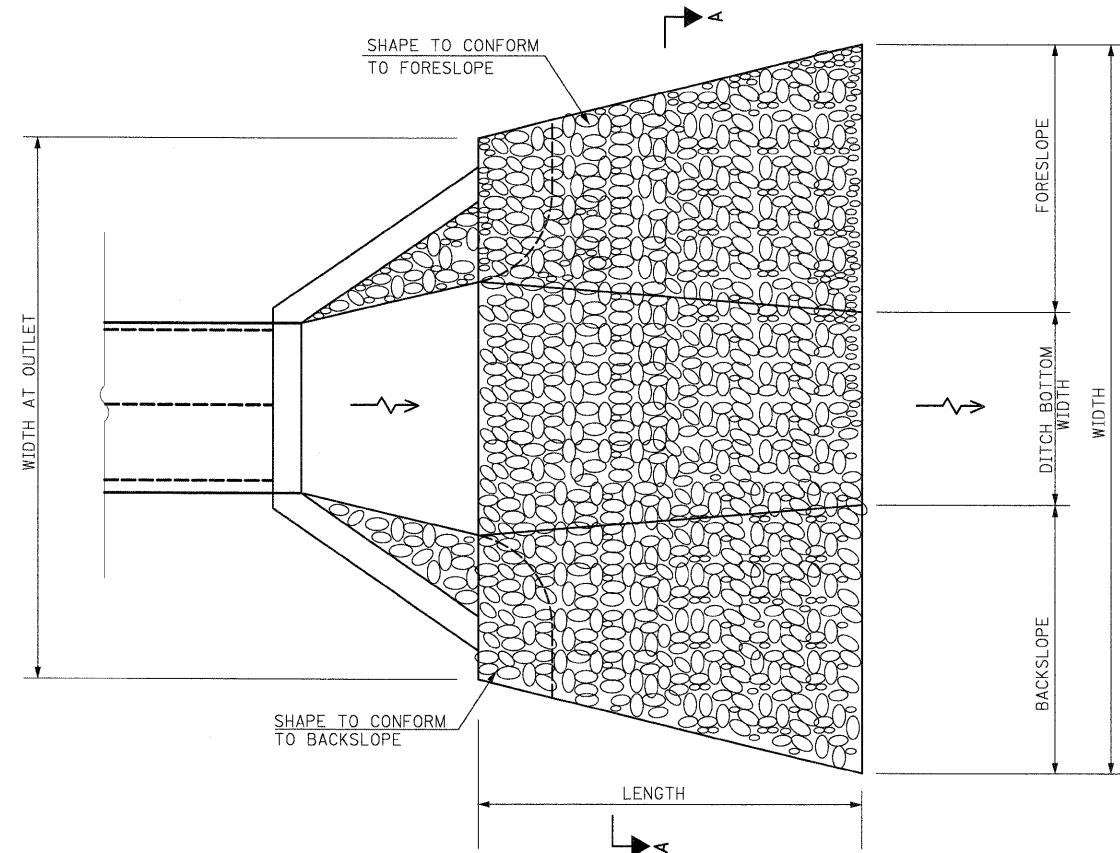
GRADATION	MIN. THICKNESS	BEDDING THICKNESS
RR3	12"	---
RR4	12"	6"



**TEMPORARY STORM SEWER PLUGS**

**NOTES:**

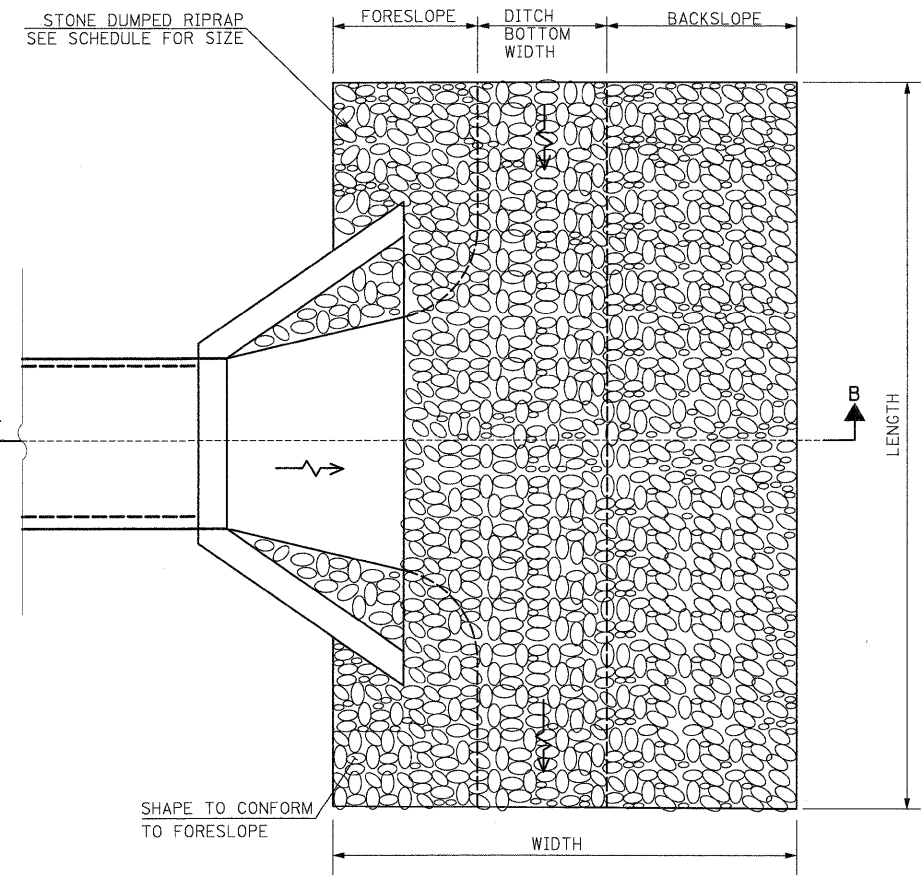
- THIS WORK CONSISTS OF FURNISHING AND PLACING BRICKS AND MORTAR AS SHOWN OR DIRECTED BY THE ENGINEER AT LOCATIONS SHOWN ON THE PLANS TO TEMPORARILY PLUG THE EXISTING AND/OR PROPOSED STORM SEWER LATERAL STUBS. THIS PLUG WILL BE REMOVED BY OTHERS FOR FUTURE EXTENSION OF THE STORM SEWER, UNLESS OTHERWISE SHOWN ON PLANS.
- 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

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

FILE NAME = D160C31-SHT-09A1N21.cgn	USER NAME = TK1uagel	DESIGNED - PKT	REVISD -
		DRAWN - PKT	REVISD -
		CHECKED - CL	REVISD -
		DATE - 12/18/09	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**RIPRAP AND TEMPORARY STORM SEWER PLUG DETAILS**

SCALE: NONE SHEET NO. 21 OF 22 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	164
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**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			
		900+00	904+50	75 RT	450	STANDARD 606401-01
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

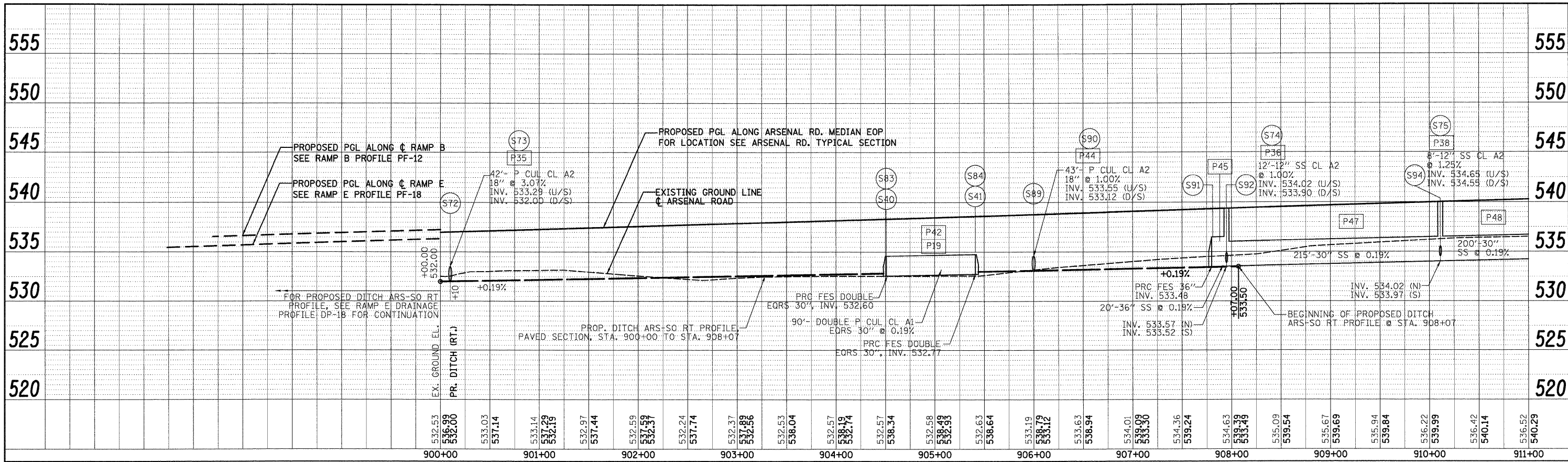
NOTES:

- 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.

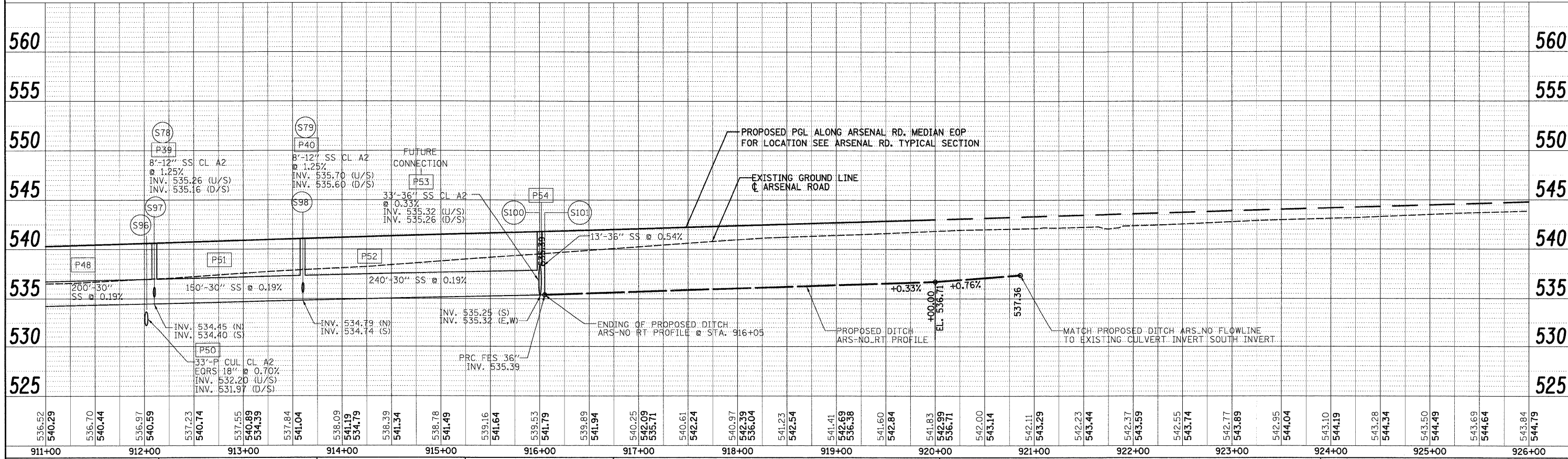
300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 625-0240  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 FAX: (312) 625-8449

FILE NAME = D160C31-SHT-DRAIN22.dgn	USER NAME = TKluegel	DESIGNED - PKT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RIPRAP AND PAVED DITCH SCHEDULE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 165
PLOT SCALE = 1:50	CHECKED - CL	REVISED -	SCALE: NONE			SHEET NO. 22 OF 22 SHEETS	STA.	TO STA.	CONTRACT NO. 60C31	
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							

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



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

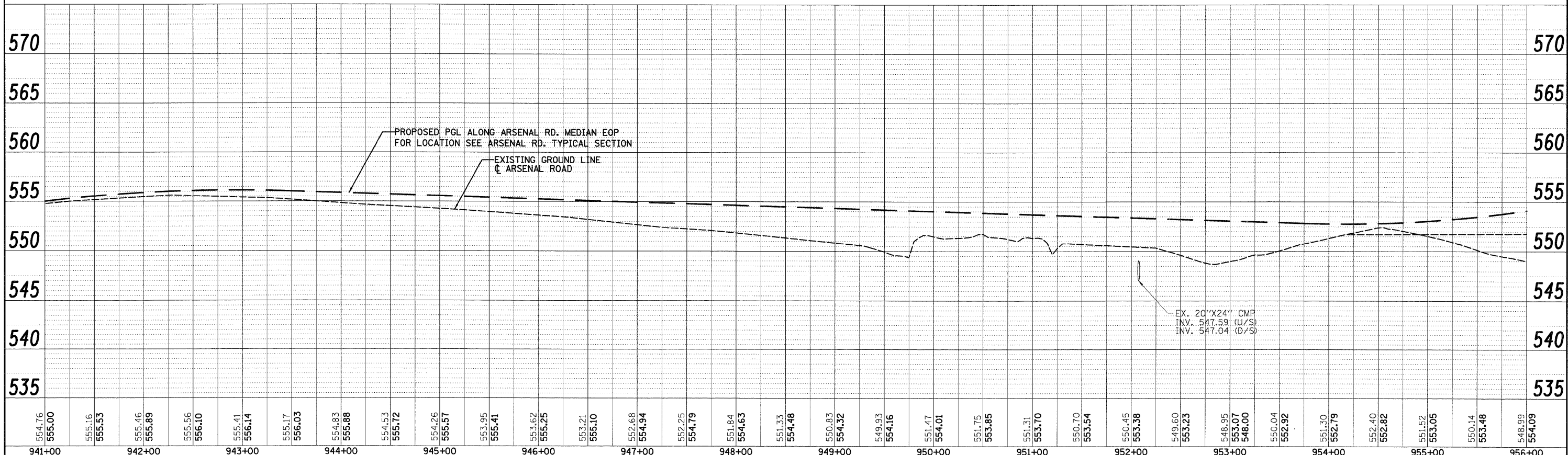
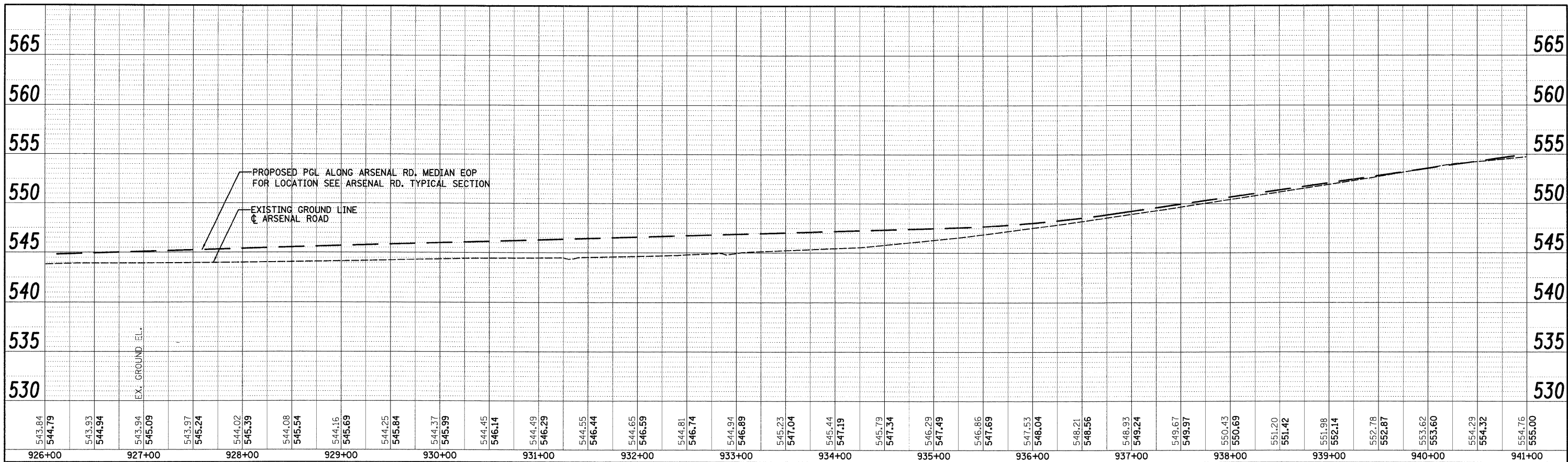


300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
FAX: (312) 629-8449

FILE NAME = D:\62C31-SHT-DRAINPROFILE01.dgn	USER NAME = TKI\uegal	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ARSENAL ROAD DRAINAGE PROFILE</b>	F.A.I. RTE. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 166	
PLOT SCALE = 1:50	CHECKED - CL	REVISOR -	REVISED -			CONTRACT NO. 60C31					
PLOT DATE = 12/14/2009	DATE = 12/18/09	REVISOR -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					
						SCALE: 1"=50' H1"=5' V SHEET NO. 1 OF 18 SHEETS STA. TO STA.					

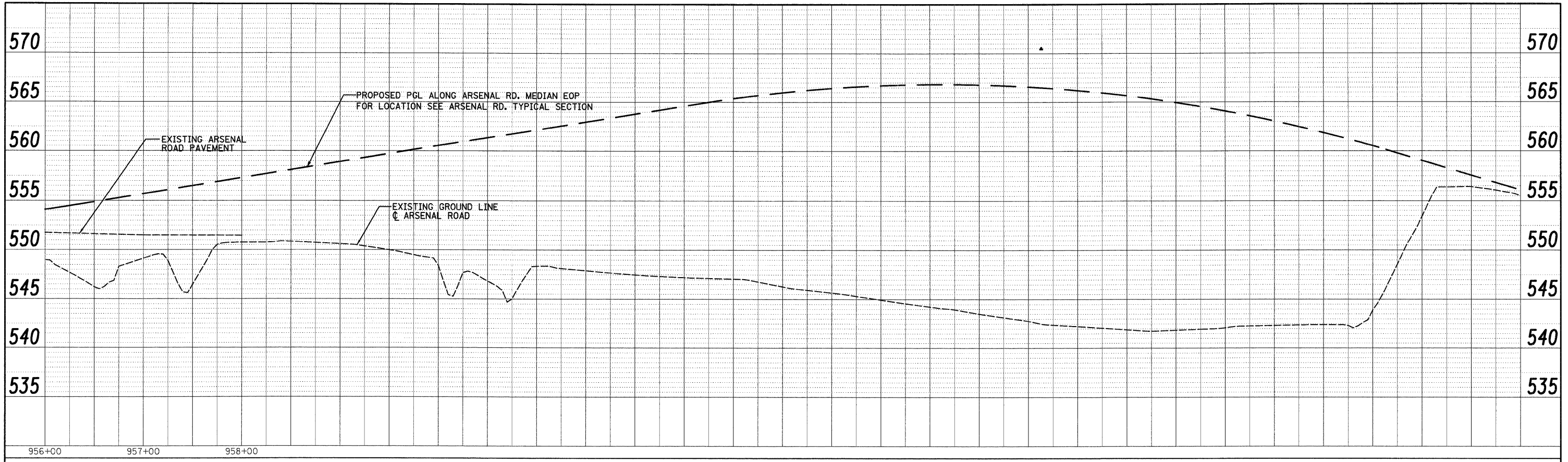
FINAL



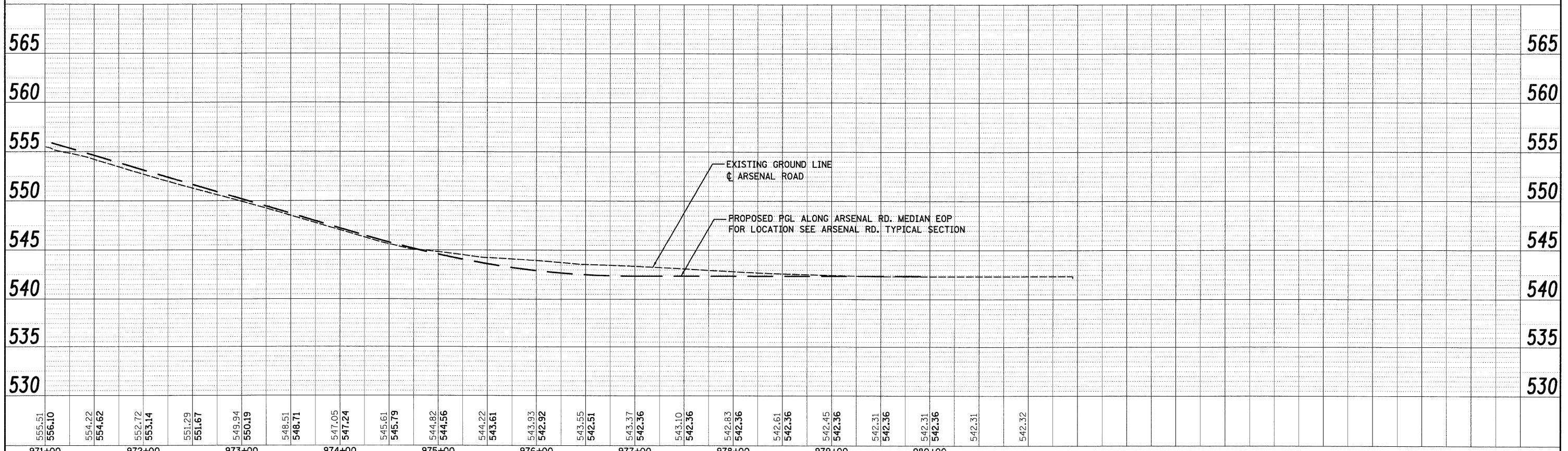


FILE NAME = D:\60\C31-SHT-DRAIN\PROFILE02.dgn	USER NAME = TKluagel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>ARSENAL ROAD DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 167
PLOT SCALE = 1:50	CHECKED - CL	REVISED -	SCALE: 1"=50' HORIZ. 1"=5' VERT. SHEET NO. 2 OF 18 SHEETS STA. TO STA.			CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
						FINAL				

PLAN	REVISED	BY	DATE
NO.	PLotted		
	ALIGNED		
	CHECKED		
	DATE		



PROFILE	REVISED	BY	DATE
NO.	PLotted		
	GRADES CHECKED		
	DATE		

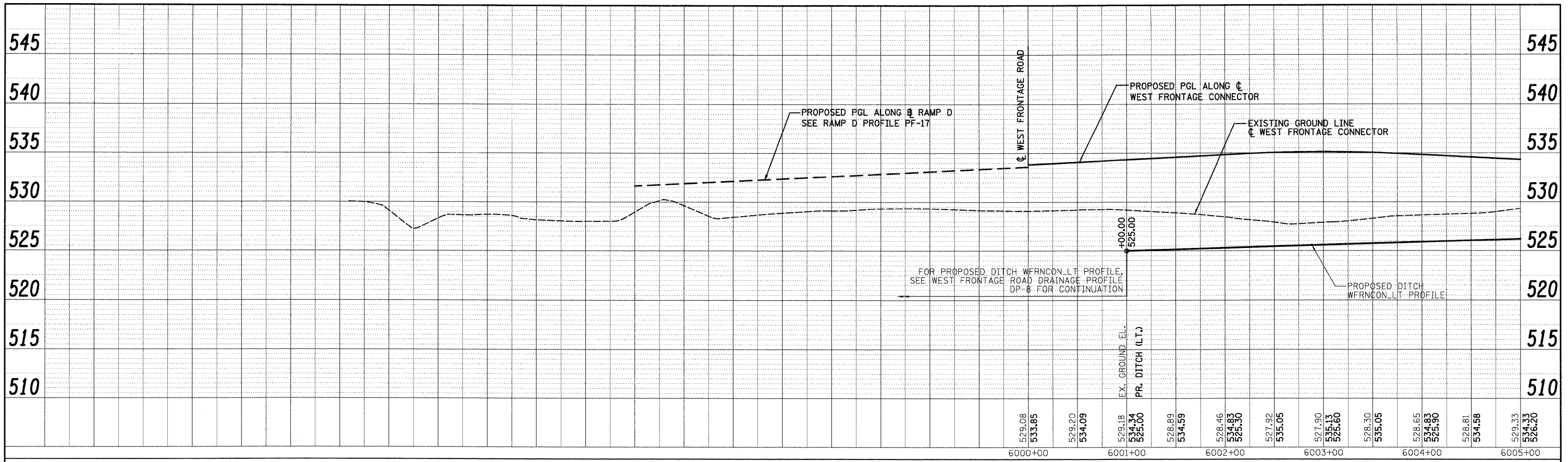


300 W. ADAMS ST.  
CHICAGO, IL 60606  
SINGH & ASSOCIATES, INC.  
TEL: (312) 629-0240  
FAX: (312) 629-8449  
CONSULTING ENGINEERS

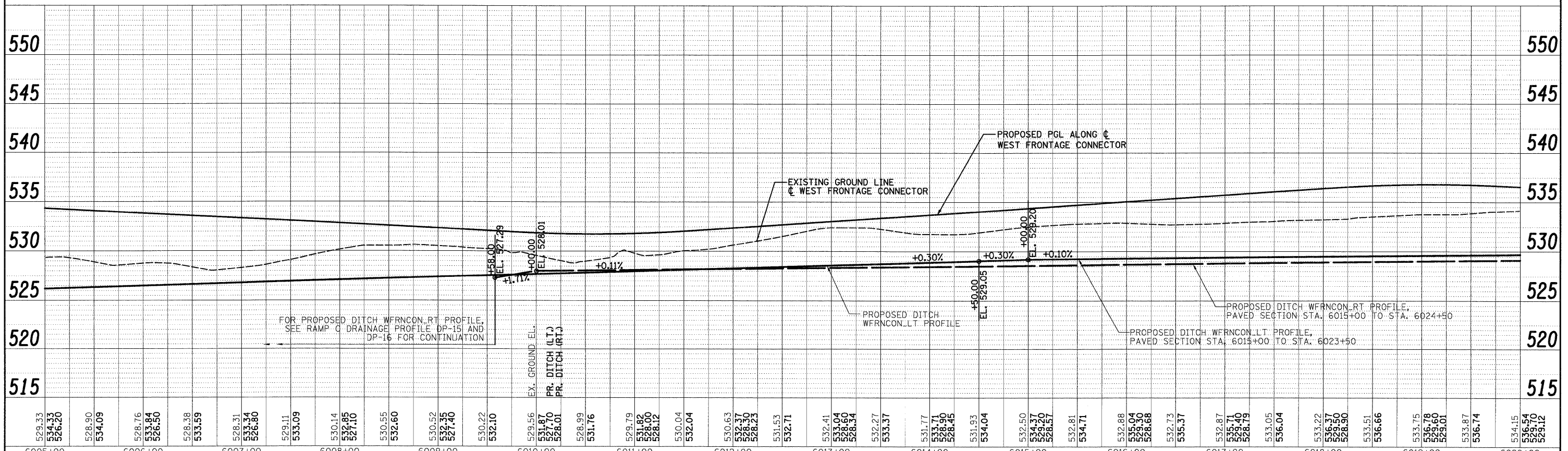
FILE NAME = D:\60C31-SHT-DRAIN\PROFILE03.dgn	USER NAME = TKluigel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARSENAL ROAD DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 168	
PLOT SCALE = 1:500	CHECKED - CL	REVISED -	SCALE: 1"=50'H; 1"=5'V			SHEET NO. 3 OF 18 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -									

FINAL

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



PROFILE	REVISIONS	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	PROPOSED CHECKED		
	ADD FILE NAME		



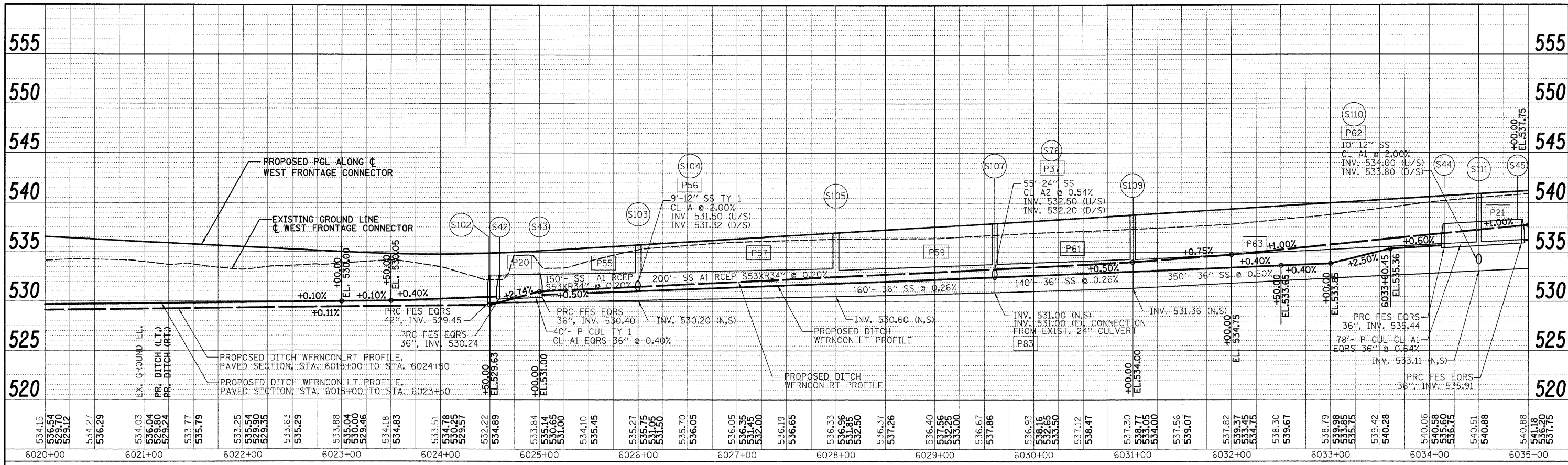
300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
FAX: (312) 629-8449

FILE NAME = D:\160\31-SHT-DRA\NPROF1E04.dgn	USER NAME = TKluegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WEST FRONTAGE CONNECTOR DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 169
PLOT SCALE = 1:500	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. 4 OF 18 SHEETS				STA. TO STA.				

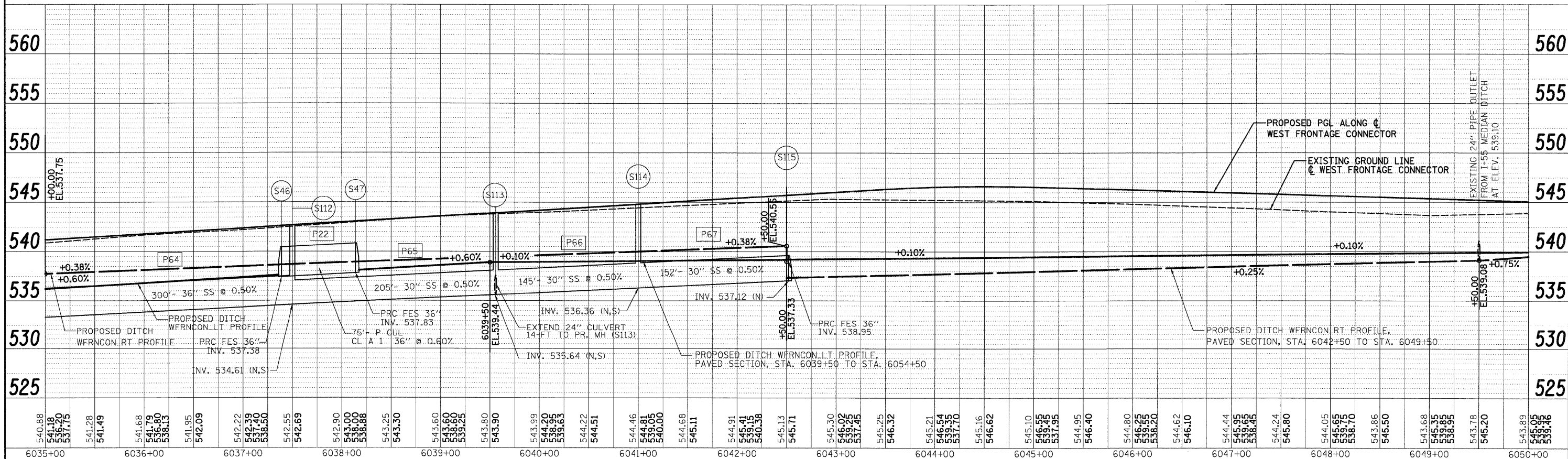
FINAL



DATE	
BY	
REVISIONS	
PLANNED	
DESIGNED	
CHECKED	
APPROVED	
NO.	



DATE	
BY	
REVISIONS	
PLANNED	
DESIGNED	
CHECKED	
APPROVED	
NO.	



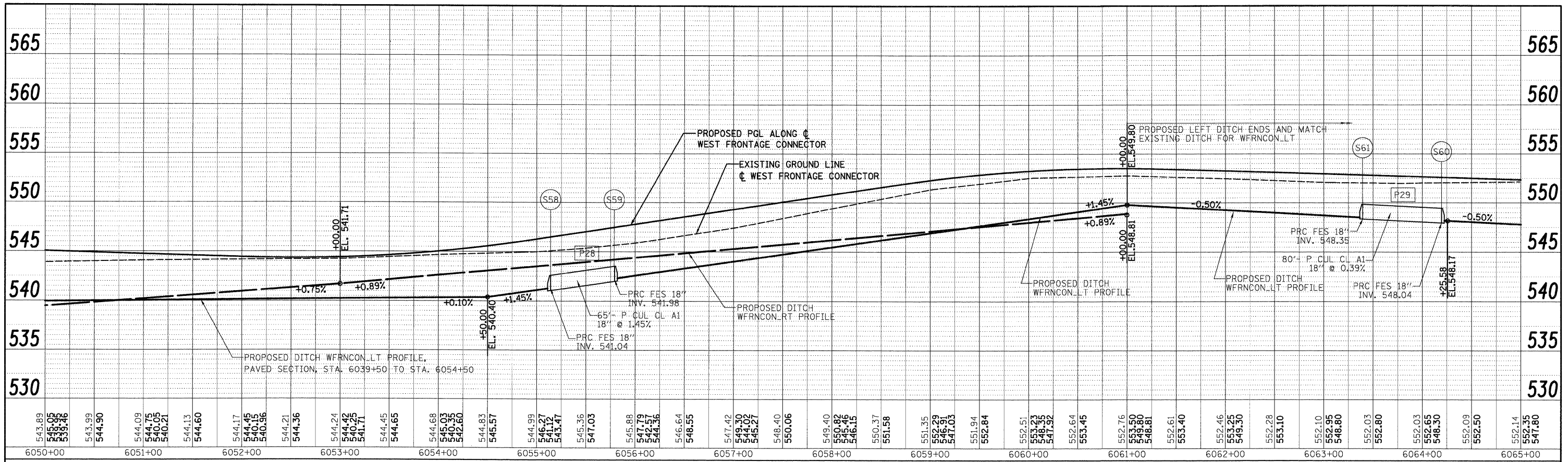
300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
FAX: (312) 629-8449

**SINGH & ASSOCIATES, INC.**  
CONSULTING ENGINEERS

FILE NAME = D:\B0C31-SHT-DRAIN\PROFILE05.dgn	USER NAME = TKLuegel	DESIGNED - PTK/VP	REVISIONS -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WEST FRONTAGE CONNECTOR DRAINAGE PROFILE</b>	F.A.I. RTE. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 170	
PLOT SCALE = 1:500	DATE = 12/18/09	DRAWN - PTK/VP	REVISIONS -			SCALE: 1"=50' HORIZ. 1"=5' VERT. SHEET NO. 5 OF 18 SHEETS	STA. TO STA.	CONTRACT NO. 60C31		FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT	
PLOT DATE = 12/11/2009	DATE = 12/18/09	CHECKED - CL	REVISIONS -								
		DATE = 12/18/09	REVISIONS -								

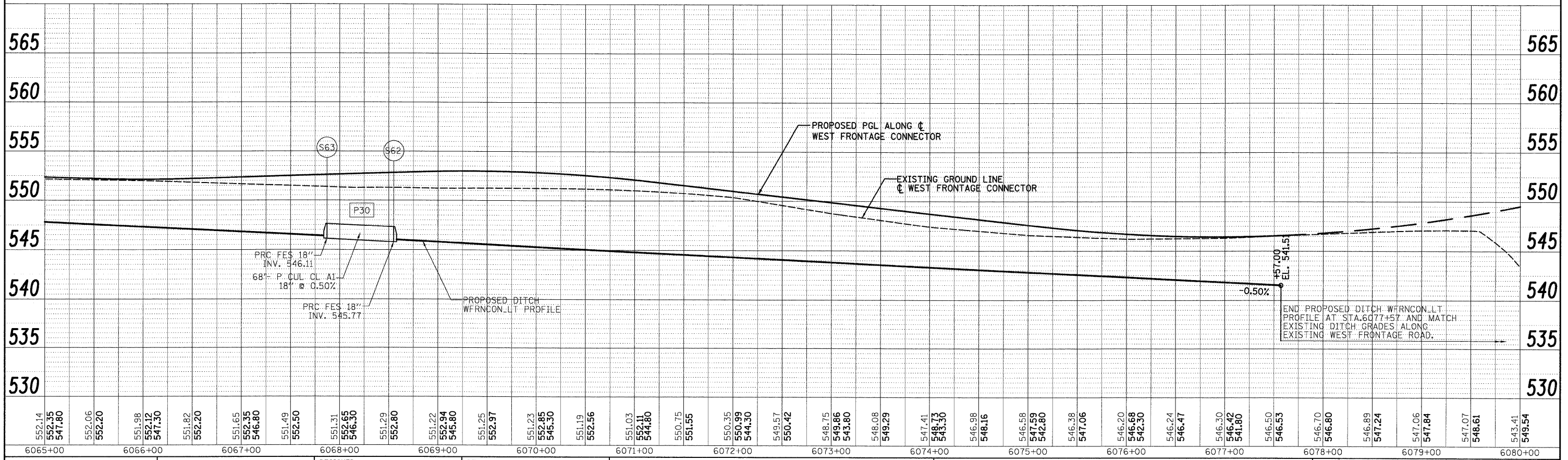
**FINAL**

REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 PLAN NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 CADD FILE NAME \_\_\_\_\_



543.89	543.99	544.09	544.17	544.24	544.45	544.57	544.68	544.99	545.36	545.88	547.42	549.40	550.37	551.35	552.64	553.45	552.76	553.50	552.28	553.10	552.10	552.95	552.03	552.09	552.14	552.35	547.80	
6050+00	6051+00	6052+00	6053+00	6054+00	6055+00	6056+00	6057+00	6058+00	6059+00	6060+00	6061+00	6062+00	6063+00	6064+00	6065+00													

PROFILE REVIEWED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 GRADES CHECKED BY \_\_\_\_\_  
 PROFILE NOTATIONS CHK'D BY \_\_\_\_\_



552.14	552.35	552.20	551.98	552.12	551.82	551.65	552.35	551.49	552.50	551.31	552.22	551.29	552.97	551.23	552.85	551.19	552.56	551.03	552.11	550.75	551.55	550.35	550.99	549.57	550.42	548.75	549.66	548.08	549.29	547.41	546.58	547.59	546.38	547.06	546.20	546.68	546.24	546.47	546.30	546.50	546.70	546.89	547.06	547.84	547.07	543.41	549.54								
6065+00	6066+00	6067+00	6068+00	6069+00	6070+00	6071+00	6072+00	6073+00	6074+00	6075+00	6076+00	6077+00	6078+00	6079+00	6080+00																																								

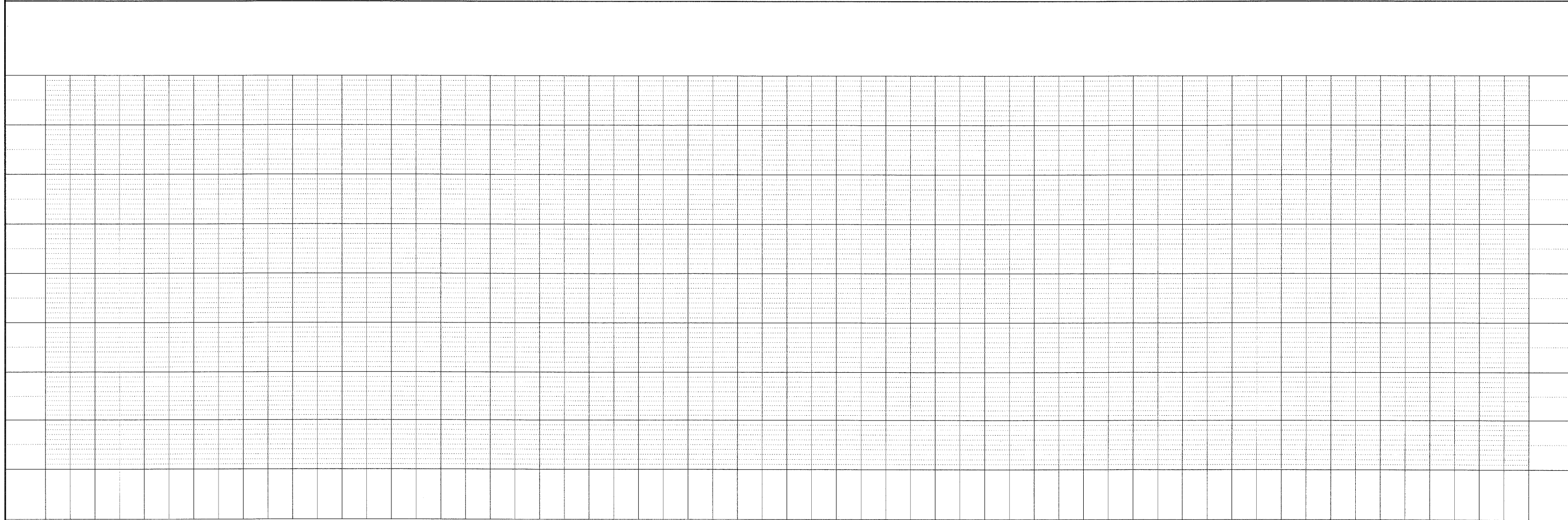
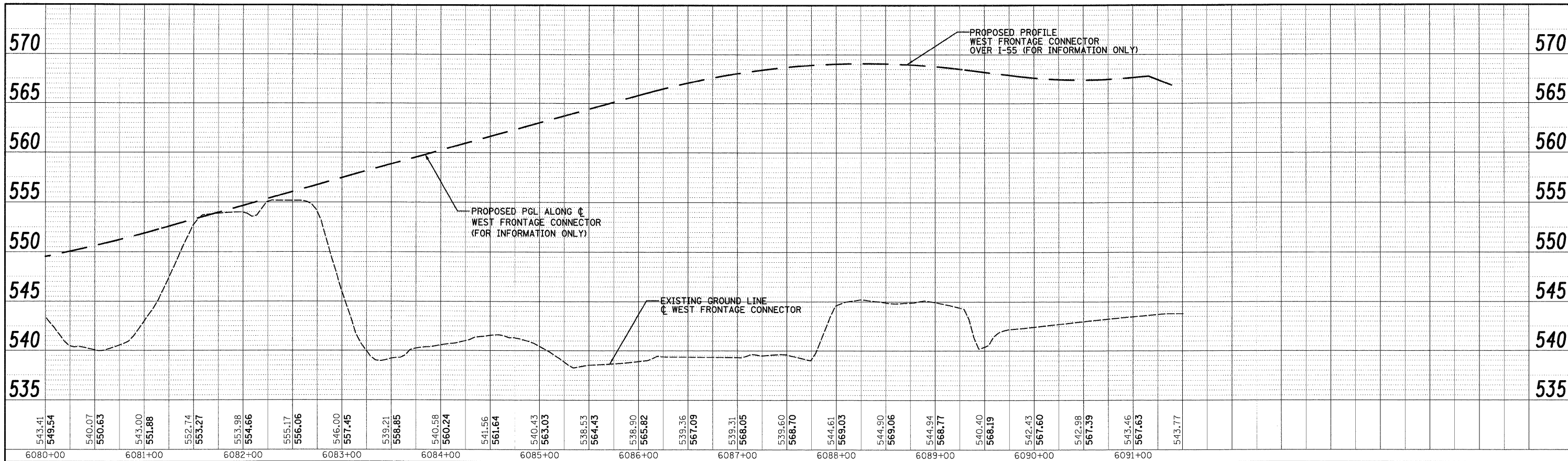
**SINGH**  
 SINGH & ASSOCIATES, INC.  
 CONSULTING ENGINEERS  
 300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 629-0240  
 FAX: (312) 629-8449

FILE NAME = D:\60C31-SHT-DRAINPROFILE06.dgn	USER NAME = TKLuegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WEST FRONTAGE CONNECTOR DRAINAGE PROFILE</b>	F.A.I. RTEL. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 171
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' HORIZ. 1"=5' VERT.		SHEET NO. 6 OF 18 SHEETS				STA. TO STA.				

PLAN  
 REVISIONS  
 CHECKED  
 ALIGNED  
 CHECKED  
 DATE  
 BY

PROFILE  
 REVISIONS  
 CHECKED  
 PLOTTED  
 DATE  
 BY

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

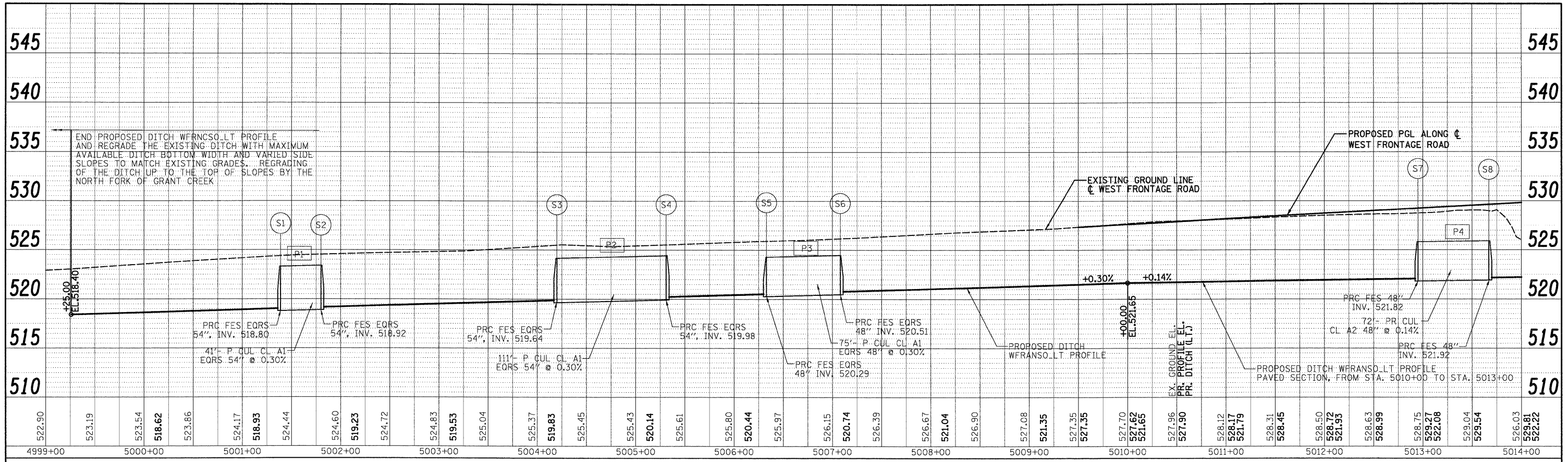


FILE NAME = D:\62C31-SHT-DRAINPROFILE87.dgn	USER NAME = TKluegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WEST FRONTAGE CONNECTOR DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 172
PLOT SCALE = 1"=50'	DATE = 12/18/09	DRAWN - PTK/VP	REVISED -			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 -			SCALE 1"=50'H/1"=5'V SHEET NO. 7 OF 18 SHEETS STA. TO STA.				

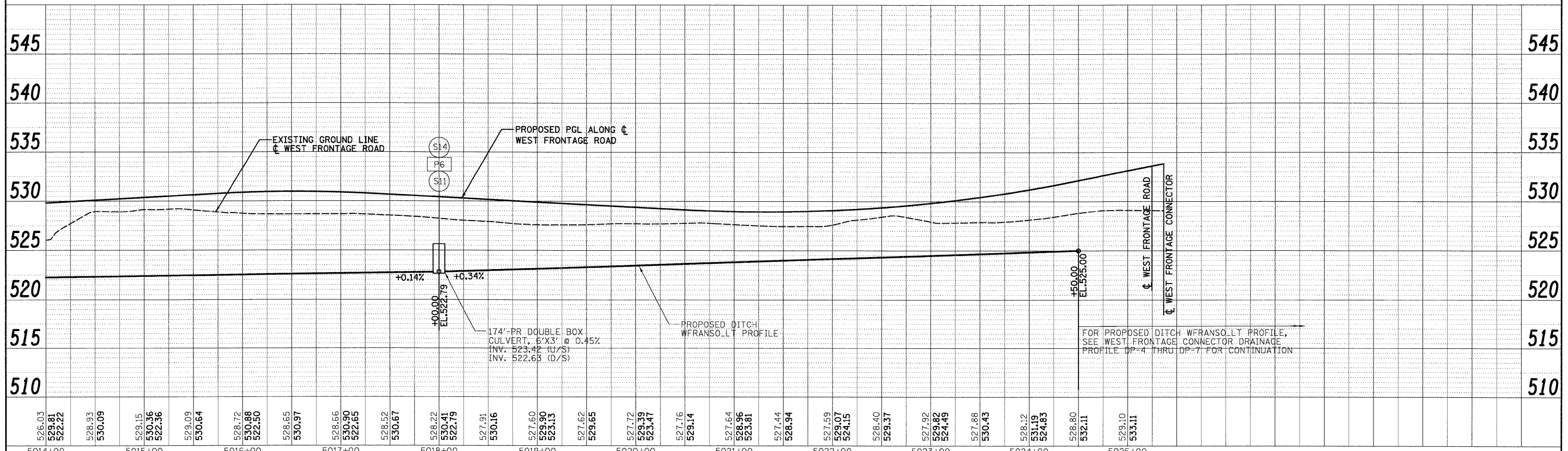
FINAL



PLAN  
 NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 TITLE \_\_\_\_\_



PROFILE  
 NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 TITLE \_\_\_\_\_



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

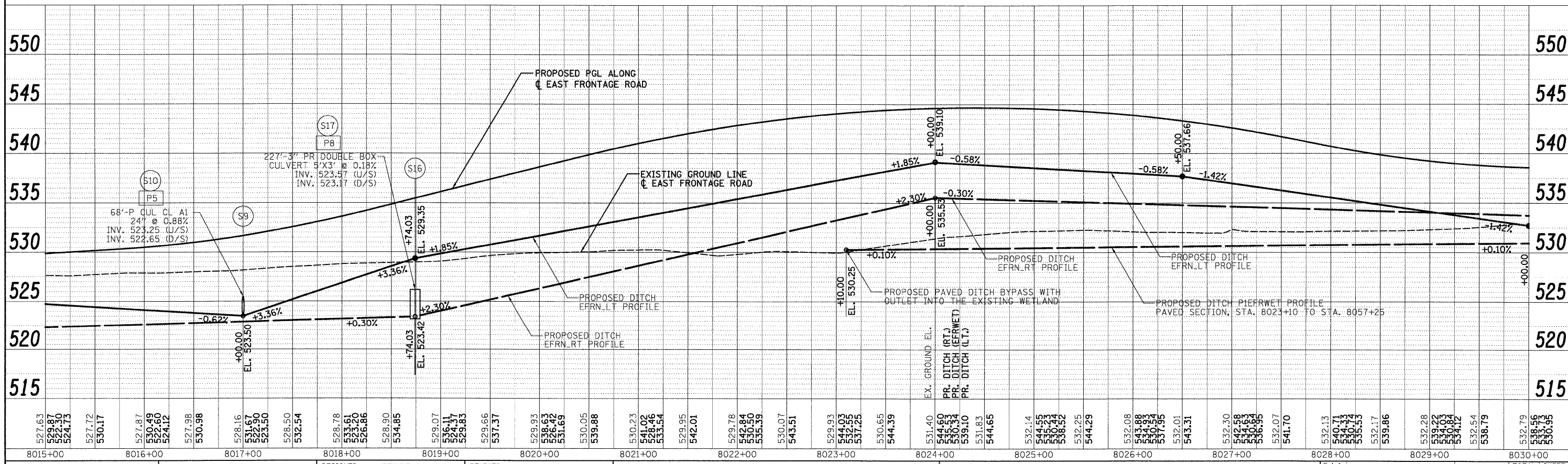
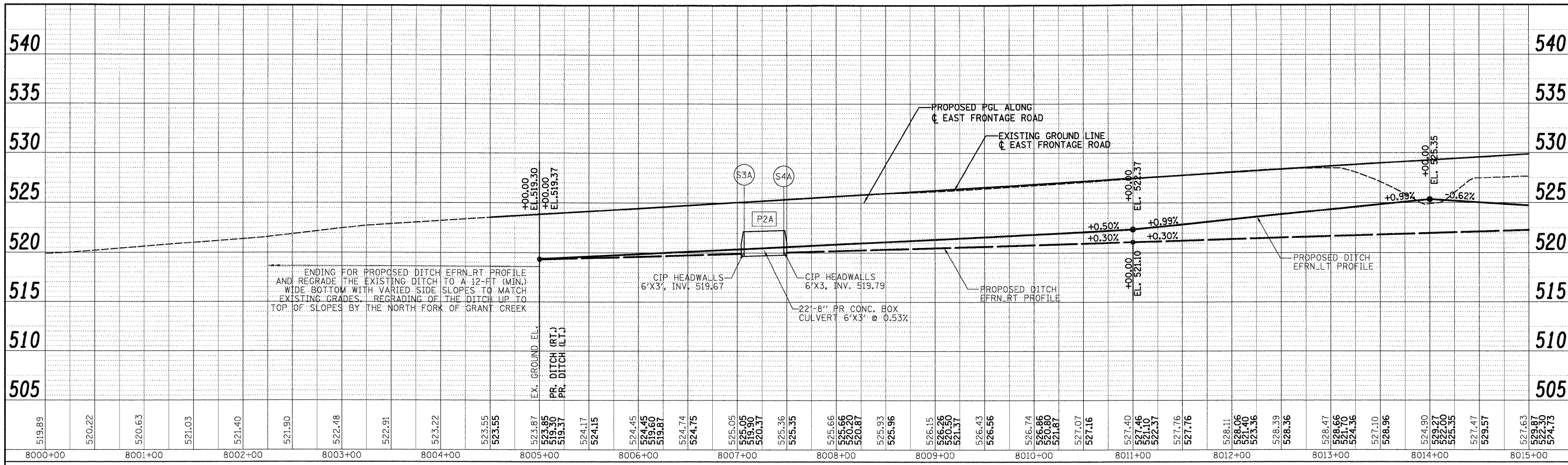
FILE NAME = D:\6031-SHT-DRAIN\PROFILE08.dgn	USER NAME = TKluegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WEST FRONTAGE ROAD DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 173
PLOT SCALE = 1:50'	DATE = 12/18/09	DRAWN - PTK/VP	REVISED -			CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE = 12/18/09	CHECKED - CL	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE 1"=50'H 1"=5'V SHEET NO. 8 OF 18 SHEETS STA. TO STA.				

FINAL

PLAN	DESIGNED	BY	DATE
NO.	PLOTTED		
NO.	ALIGNED		
NO.	CHECKED		
NO.	PROPOSED		

PROFILE	DESIGNED	BY	DATE
NO.	PLOTTED		
NO.	GRADES		
NO.	NOTED		
NO.	PROPOSED		

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



FILE NAME = D:\168C31-SHT-DRAINPROFILE09.dgn	USER NAME = TKLuagel	DESIGNED - PTK/VP	REVISED -
PLOT SCALE = 1:50	DATE = 12/18/09	DRAWN - PTK/VP	REVISED -
		CHECKED - CL	REVISED -
		DATE = 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST FRONTAGE ROAD DRAINAGE PROFILE**

SCALE 1"=50'H 1"=5'V SHEET NO. 9 OF 18 SHEETS STA. TO STA.

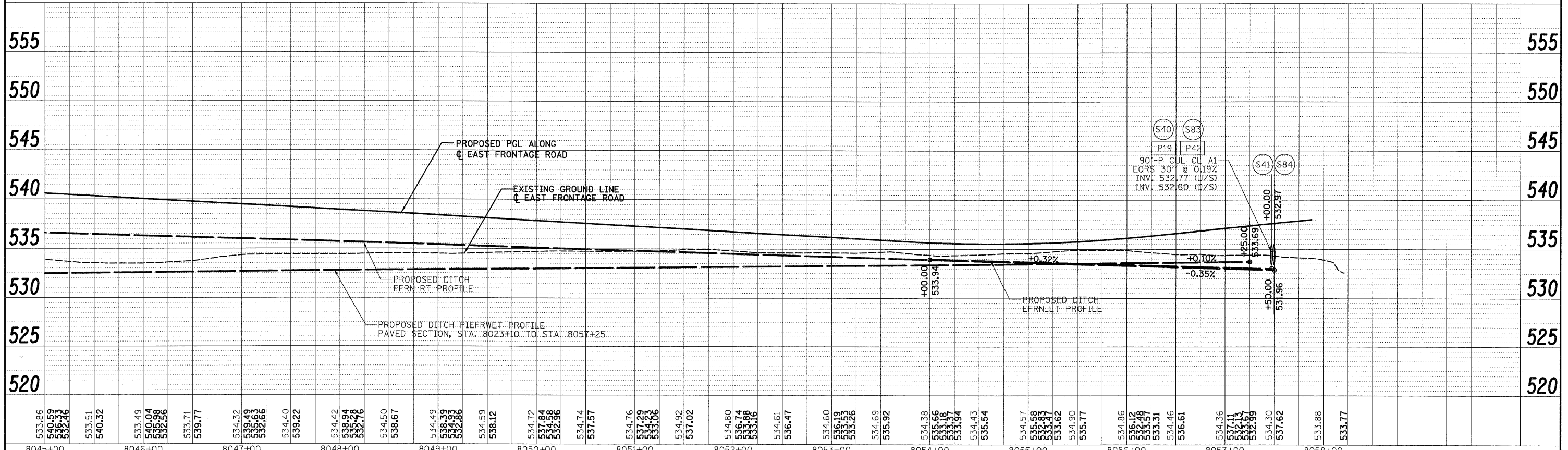
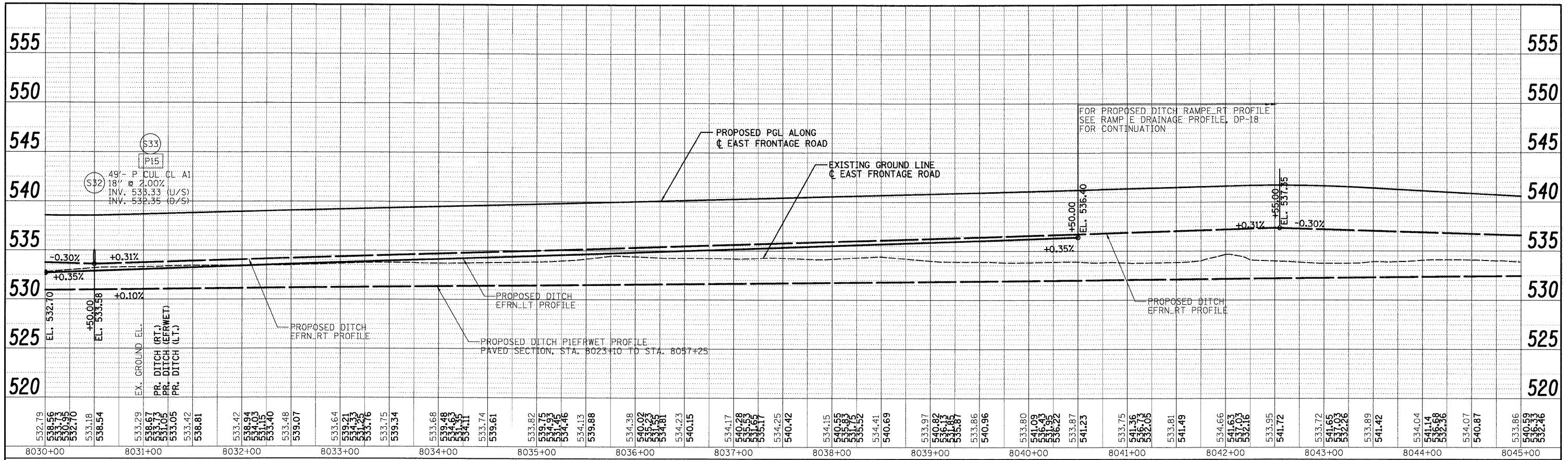
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 174
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**FINAL**

PLAN	REVISION	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		

PROFILE	REVISION	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		

300 W. ADAMS ST.  
CHICAGO, IL 60606  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
TEL: (312) 625-0240  
FAX: (312) 625-8449



FILE NAME = D:\6031--SHT-DRAINPROFILE10.dgn  
USER NAME = TKluegel

DESIGNED - PTK/VP  
DRAWN - PTK/VP  
CHECKED - CL  
DATE - 12/11/2009

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST FRONTAGE ROAD DRAINAGE PROFILE

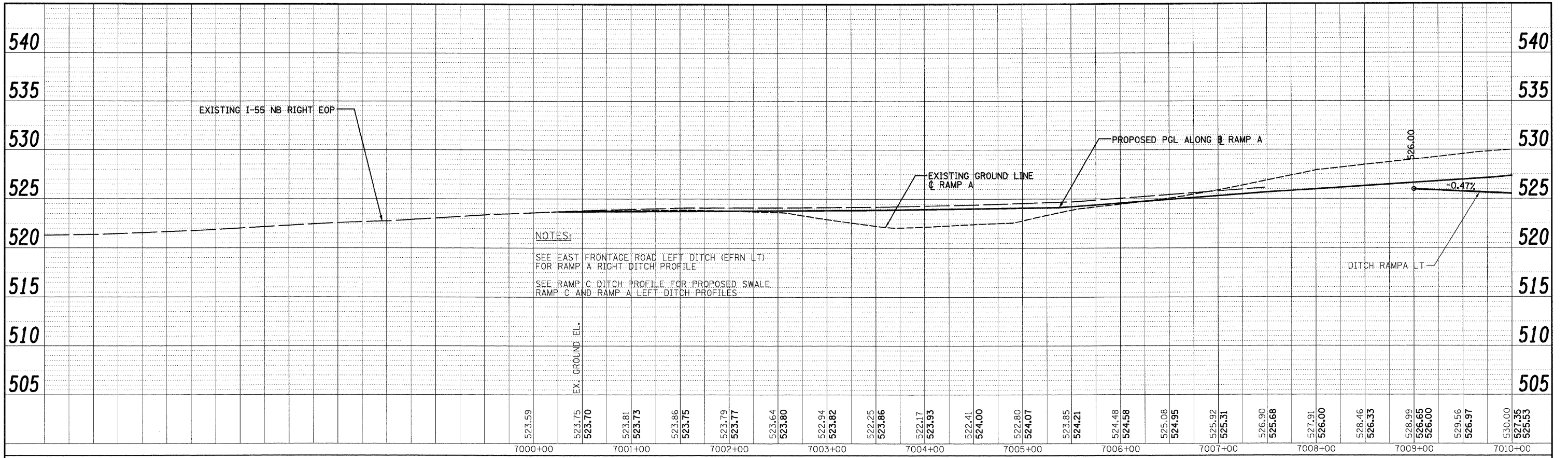
SCALE: 1"=50' H1"=5' V SHEET NO. 10 OF 18 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	175
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

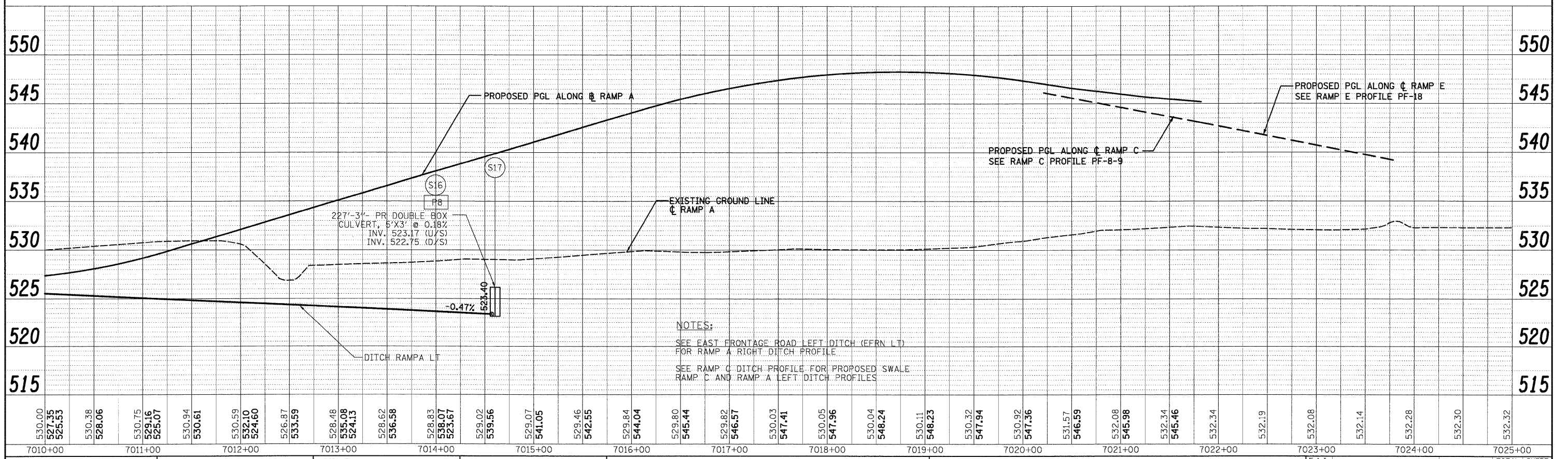
FINAL



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



PROFILE	REVISIONS	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	BEAM NOTED		
	STRUCTURE INDICATORS CHKD		



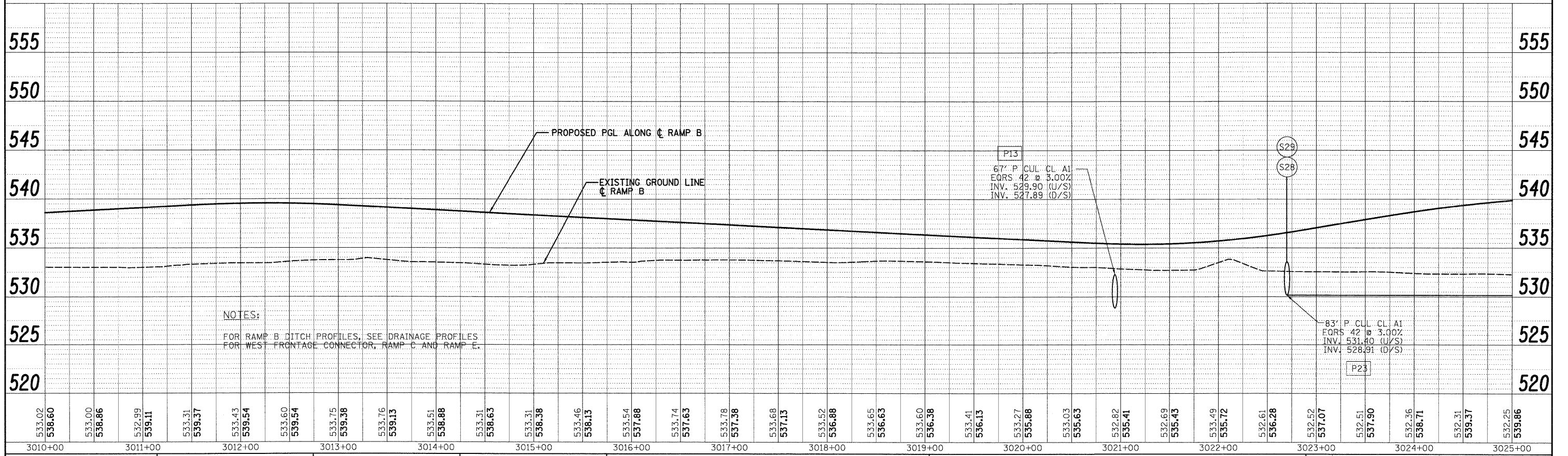
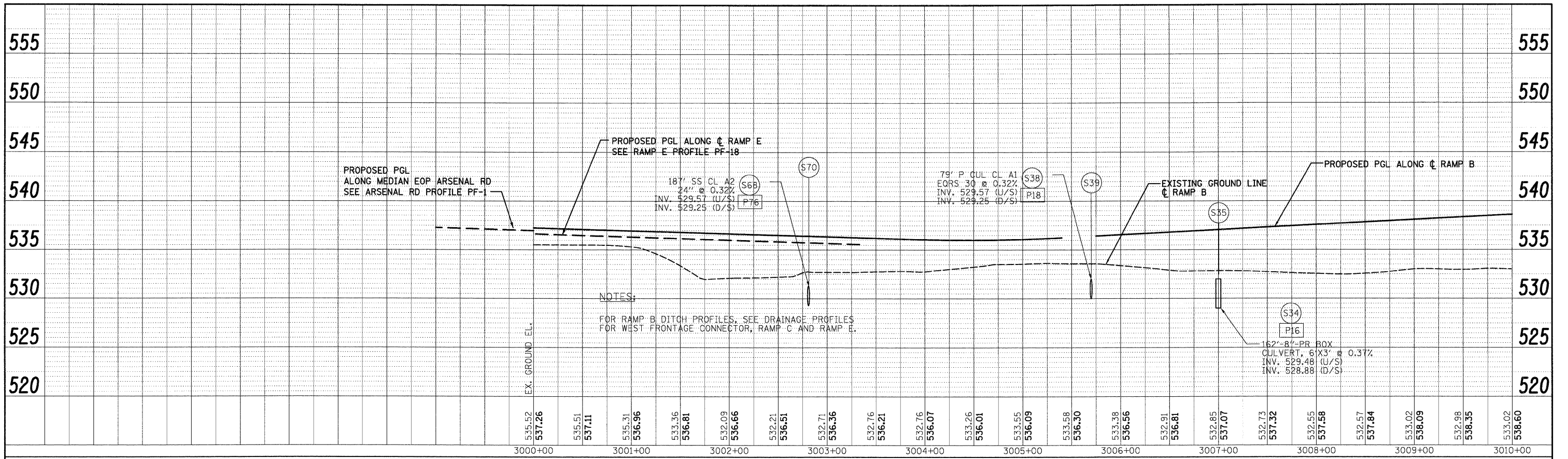
300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
FAX: (312) 629-8449

FILE NAME =	USER NAME = tkluemel	DESIGNED -	PTK/VP	REVISED -	
D:\62C31-SHT-DRAIN\PROFILE11.dgn		DRAWN -	PTK/VP	REVISED -	
		CHECKED -	CL	REVISED -	
		DATE -	12/18/09	REVISED -	
<b>STATE OF ILLINOIS</b>			<b>DEPARTMENT OF TRANSPORTATION</b>		
<b>RAMP A DRAINAGE PROFILE</b>					
SCALE: V=50'H=1"=5'V SHEET NO. 11 OF 18 SHEETS STA. TO STA.					
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					

DATE	
BY	
REVISIONS	
PLAN	
NO. E. BOOK	
NO.	

DATE	
BY	
PROFILE	
NO. E. BOOK	
NO.	

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



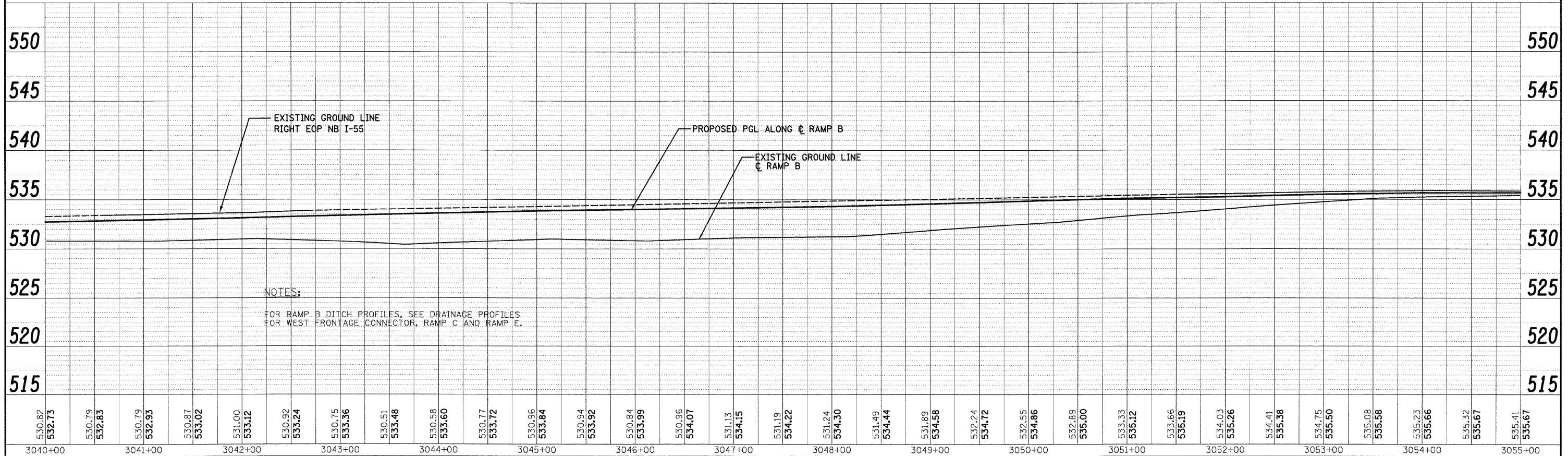
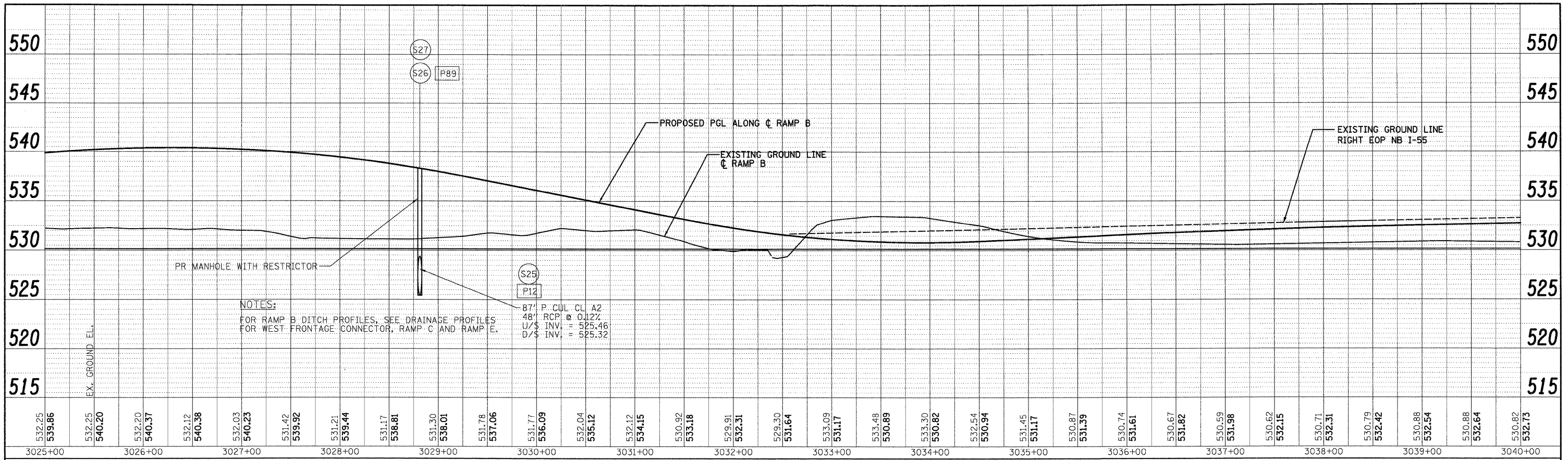
FILE NAME = 0160C31-SHT-DRAINPROFILE12.dgn	USER NAME = TKLuogel	DESIGNED - PTK/VP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RAMP B DRAINAGE PROFILE	SCALE 1"=50' H1"=5' V	SHEET NO. 12 OF 18 SHEETS	STA.	TO STA.	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 177
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  
 ALIGNED CHECKED  
 NOTE BOOK  
 PLOTTED  
 DATE

PROFILE  
 GRADES CHECKED  
 NOTE BOOK  
 PLOTTED  
 DATE

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



FILE NAME = D:\6031-SHT-DRAINPROFILE13.dgn	USER NAME = TKLuegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP B DRAINAGE PROFILE</b>	F.A.I. RTE. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 178	
PLOT SCALE = 1:50	DATE = 12/18/09	DRAWN - PTK/VP	REVISED -			CONTRACT NO. 60C31					
PLOT DATE = 12/11/2009		CHECKED - CL	REVISED -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT					
		DATE = 12/18/09	REVISED -			SCALED 1"=50'H 1"=5'V SHEET NO. 13 OF 18 SHEETS STA. TO STA.					

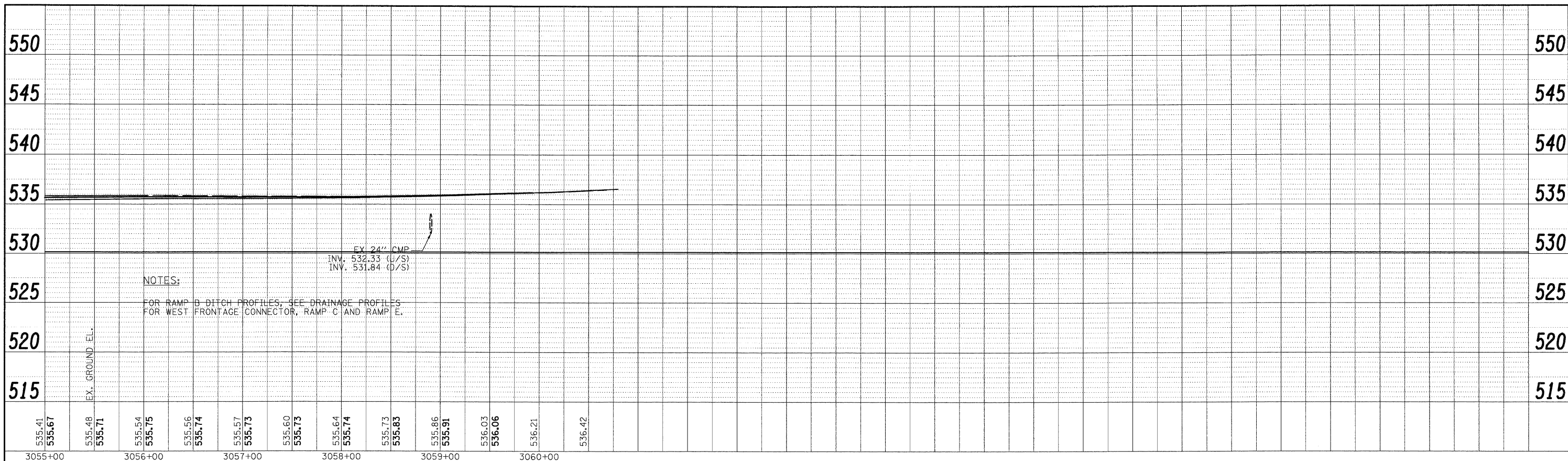
FINAL



PLAN	REVISION	BY	DATE
NOTED	PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED		
NO.	CADD FILE NAME		

PROFILE	REVISION	BY	DATE
NOTED	PLOTTED		
NOTE BOOK	GRADES CHECKED		
NO.	STRUCTURE NOTATIONS CHRD		

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



**NOTES:**

FOR RAMP B DITCH PROFILES, SEE DRAINAGE PROFILES FOR WEST FRONTAGE CONNECTOR, RAMP C AND RAMP E.

EX 24" CMP  
INV. 532.33 (O/S)  
INV. 531.84 (D/S)

FILE NAME = D:\60C31\SH-DRAIN\PROFILE14.dgn	USER NAME = TK\uegl	DESIGNED - PTK/VP	REVISED -
PLOT SCALE = 1:50		DRAWN - PTK/VP	REVISED -
PLOT DATE = 12/11/2009		CHECKED - CL	REVISED -
		DATE - 12/18/09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

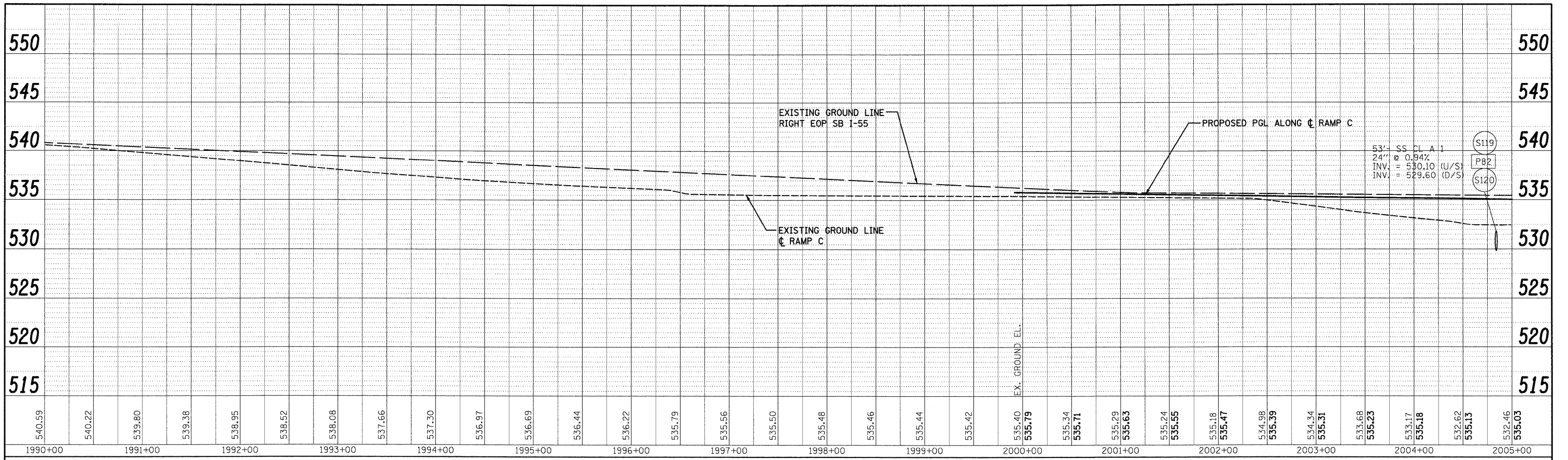
**RAMP B DRAINAGE PROFILE**

SCALE: 1"=50'H; 1"=5'V SHEET NO. 14 OF 18 SHEETS STA. TO STA.

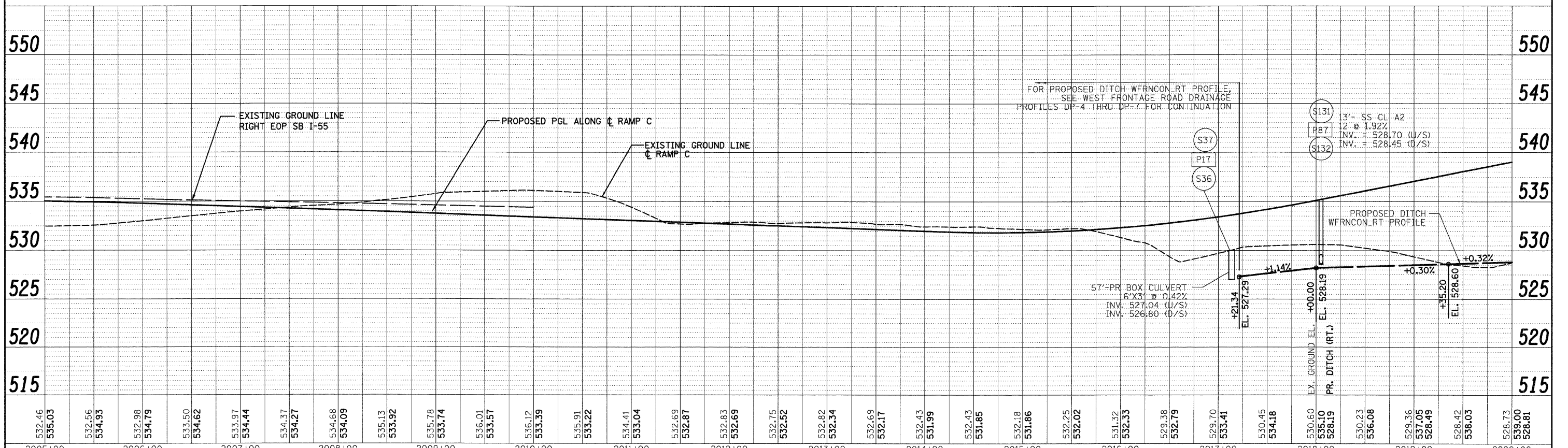
F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 179
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**FINAL**

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



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

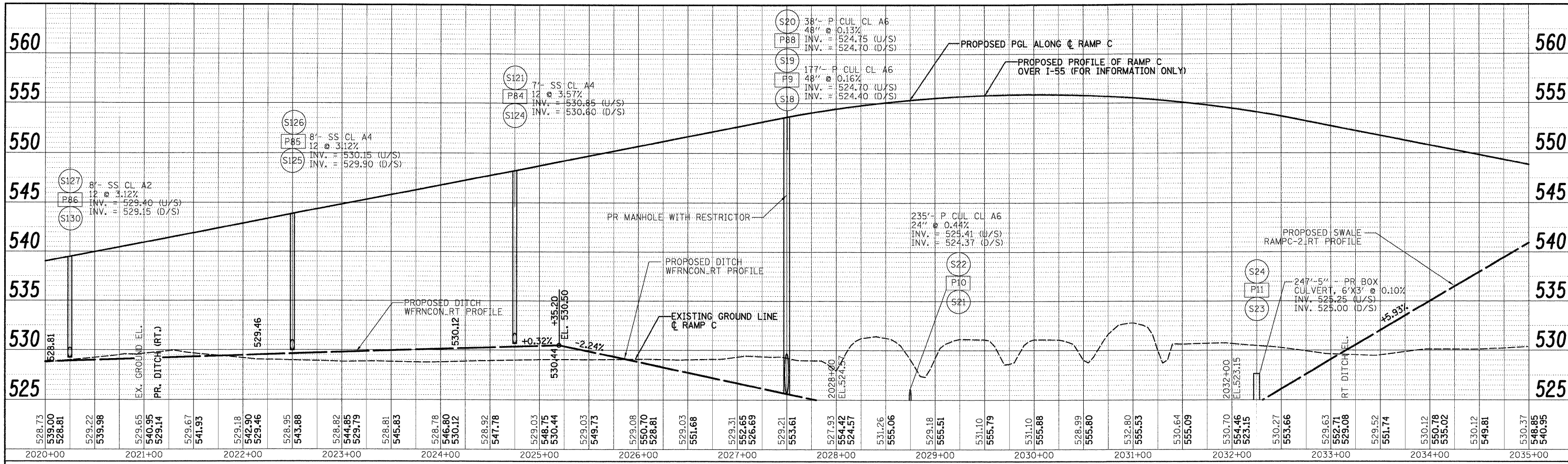


**SINGH & ASSOCIATES, INC.**  
 300 W. ADAMS ST.  
 CHICAGO, IL 60606  
 TEL: (312) 629-0240  
 FAX: (312) 629-8449  
 CONSULTING ENGINEERS

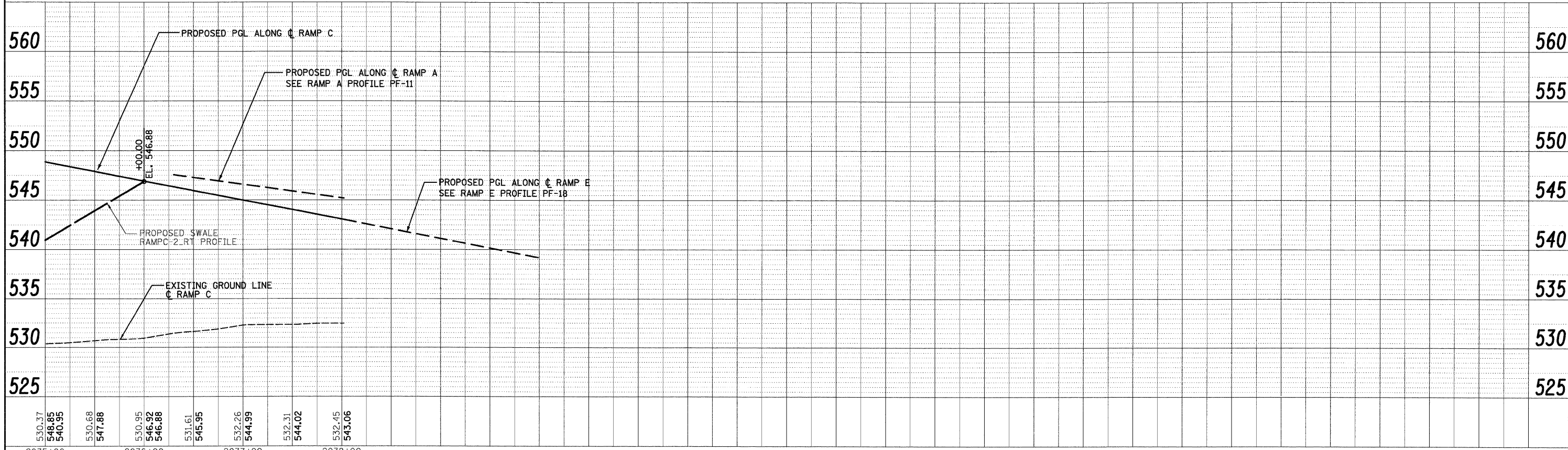
FILE NAME = D:\68C31-SHT-DRAIN\PROFILE15.dgn	USER NAME = TKLuegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP C DRAINAGE PROFILE</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 180	
PLOT SCALE = 1:500	CHECKED - CL	REVISED -	DATE 12/18/09			REVISED -	SCALE: 1"=50'H 1"=5'V	SHEET NO. 15 OF 18 SHEETS		STA. TO STA.	CONTRACT NO. 60C31
PLOT DATE = 12/11/2009	DATE 12/18/09	REVISED -	REVISED -			REVISED -	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			

FINAL

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



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



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

FILE NAME = D:\60C31-SHT-DRAINPROFILE16.dgn	USER NAME = TK\luagej	DESIGNED - PTK/VP	REVISIONS -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> <b>RAMP C DRAINAGE PROFILE</b>	F.A.I. RTEL. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 181
PLOT SCALE = 1:50	DATE = 12/18/09	DRAWN - PTK/VP	REVISIONS -		CONTRACT NO. 60C31				
PLOT DATE = 12/11/2009	DATE = 12/18/09	CHECKED - CL	REVISIONS -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
		DATE = 12/18/09	REVISIONS -		SCALE: 1"=50'-H&I"=5'-V' SHEET NO. 16 OF 18 SHEETS STA. TO STA.				

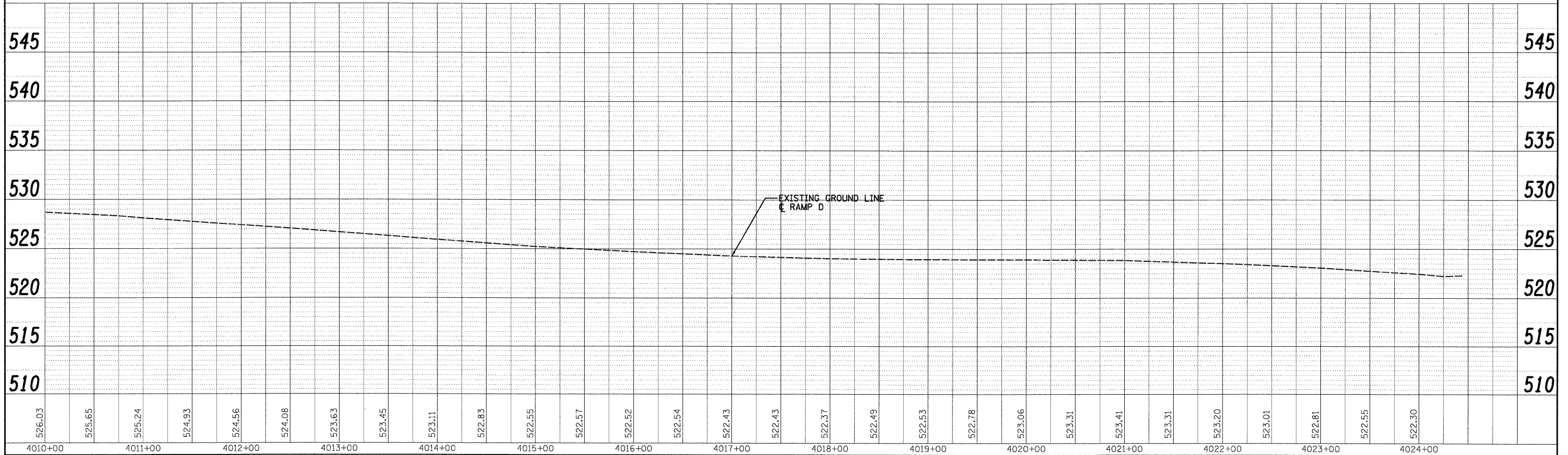
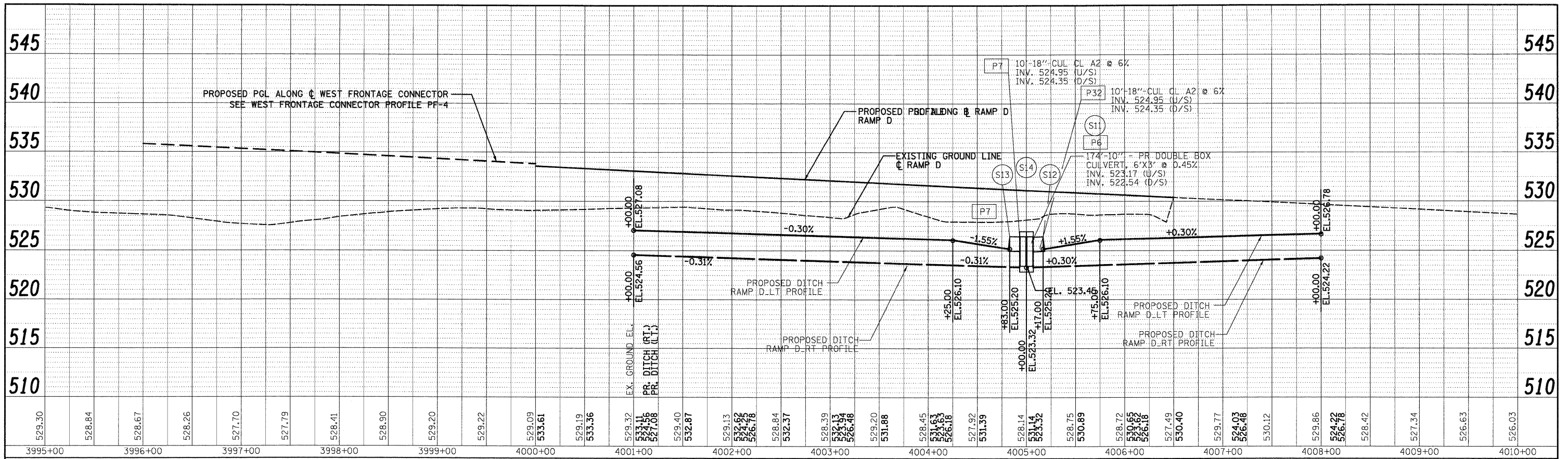
FINAL



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

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

300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
SINGH & ASSOCIATES, INC.  
CONSULTING ENGINEERS  
FAX: (312) 629-9449



FILE NAME =	USER NAME = TKluagl	DESIGNED - PTK/VP	REVISED -
D:\60C31-SHT-DRAIN\PROFILE:7.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**

**RAMP D DRAINAGE PROFILE**

SCALE 1"=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				

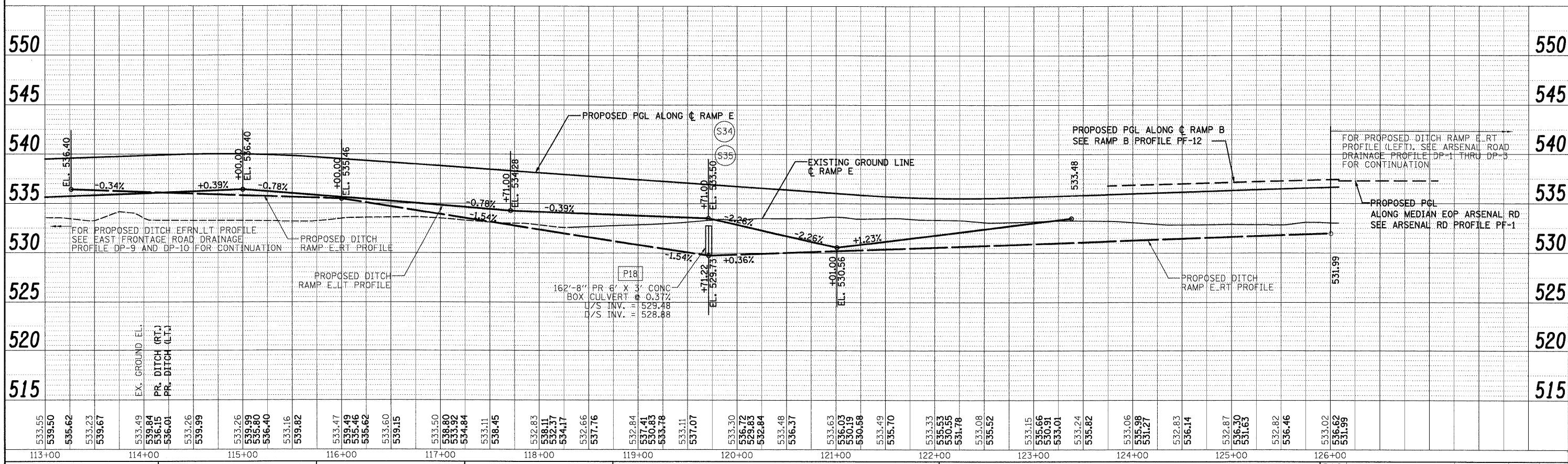
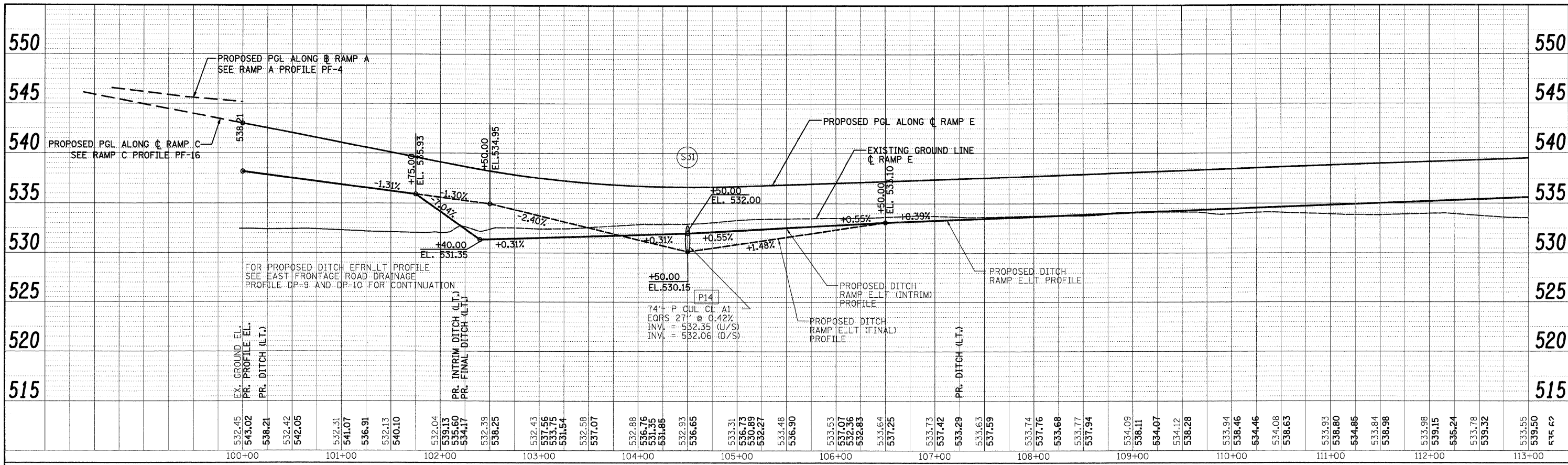
FINAL

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

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

300 W. ADAMS ST.  
CHICAGO, IL 60606  
TEL: (312) 629-0240  
FAX: (312) 629-8449

**SINGH & ASSOCIATES, INC.**  
CONSULTING ENGINEERS



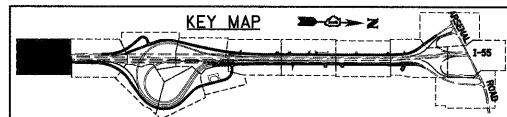
FILE NAME = D:\6033-SHT-DRAIN\PROFILE18.dgn	USER NAME = TKLuegel	DESIGNED - PTK/VP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RAMP E DRAINAGE PROFILE</b>	F.A.I. RTE. = 55	SECTION = (99-1&2)AC-3	COUNTY = WILL	TOTAL SHEETS = 524	SHEET NO. = 183
PLOT SCALE = 1:50	CHECKED - CL	DATE = 12/18/09	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. 18 OF 18 SHEETS				STA. TO STA.				

FINAL



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

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



FILE NAME = D:\62C31-SHT-GRADING01.dgn	USER NAME = TKluigel	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. 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				

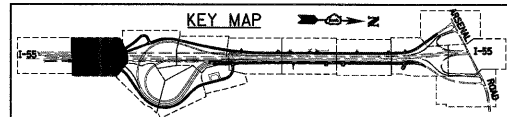
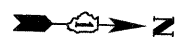
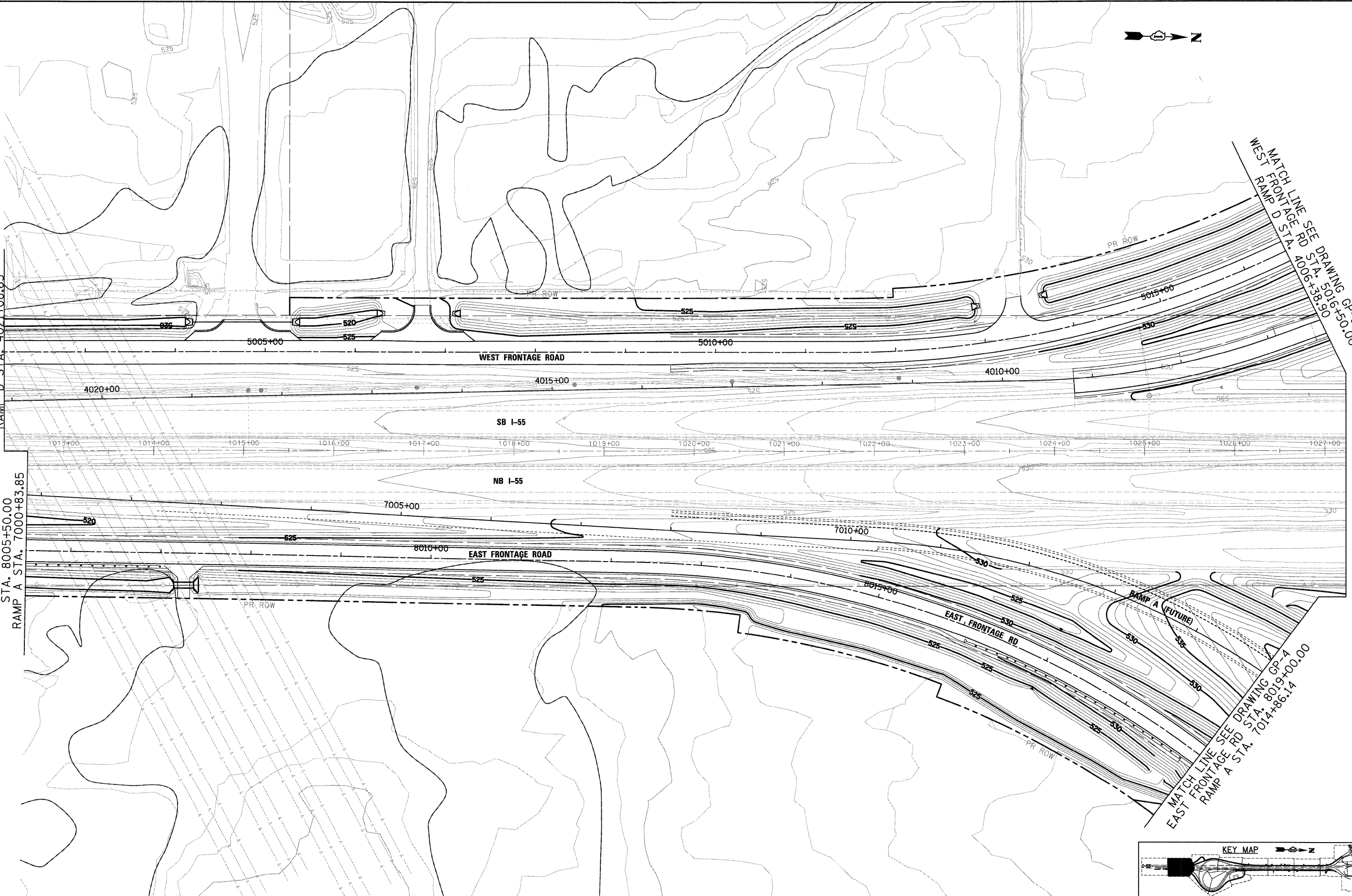
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

**FINAL**



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

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



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

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

FILE NAME =	USER NAME = TKluegel
D1680C31-SHT-GRADING02.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 12/11/2009	

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

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

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

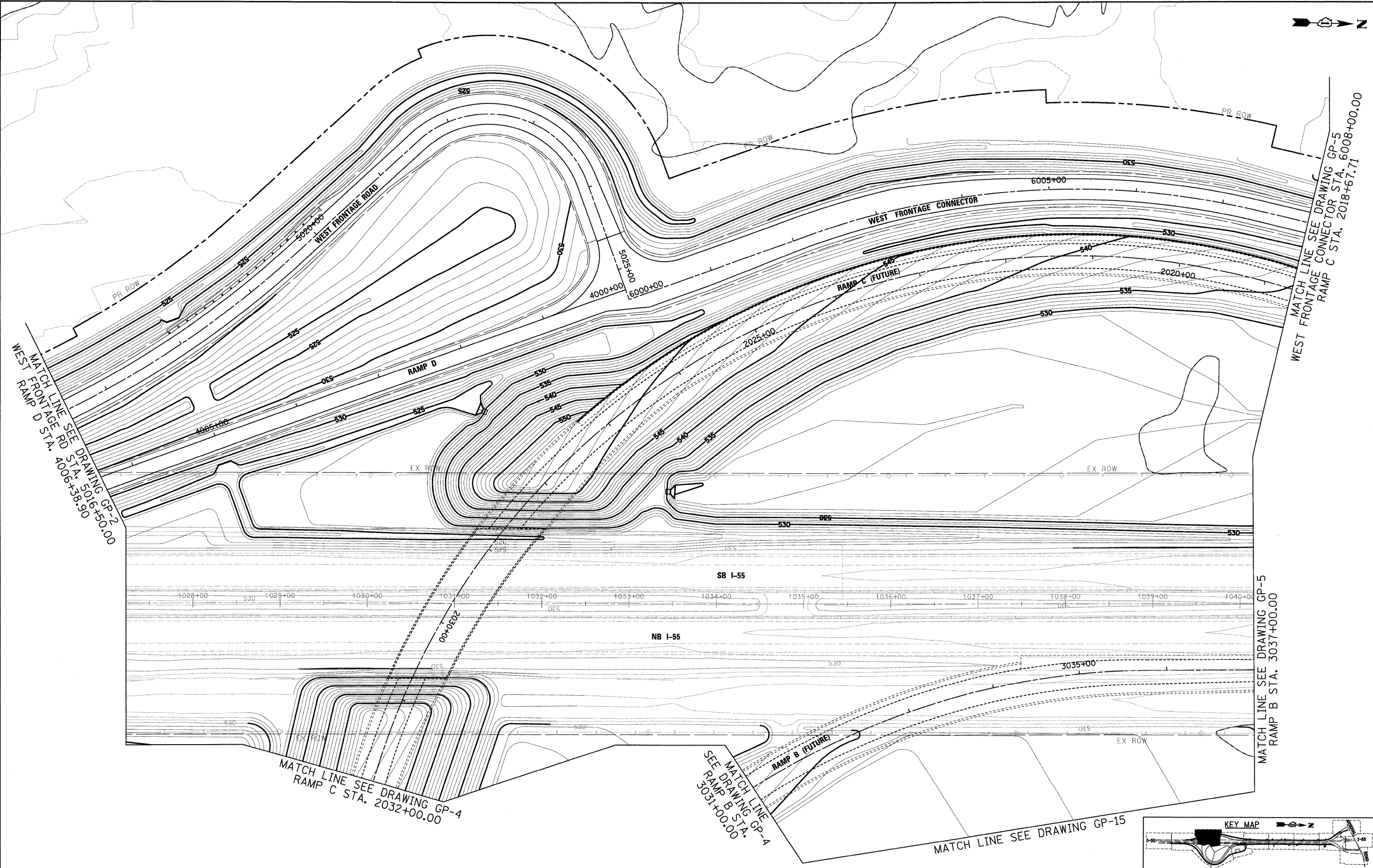
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1"=50' SHEET NO. 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  
RAMP D STA. 4006+38.90

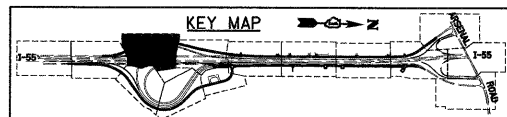
MATCH LINE SEE DRAWING GP-5  
WEST FRONTAGE CONNECTOR STA. 6008+00.00  
RAMP C STA. 2018+67.71

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

SEE MATCH LINE  
RAMP B STA.  
3031+00.00

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

MATCH LINE SEE DRAWING GP-15



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

FILE NAME = D160C31-SHT-GRADING03.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -
PLOT SCALE = 1:50	CHECKED - DLT	DRAWN - MJT	REVISED -
PLOT DATE = 12/11/2009	DATE - 12/18/09	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

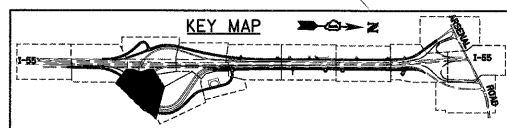
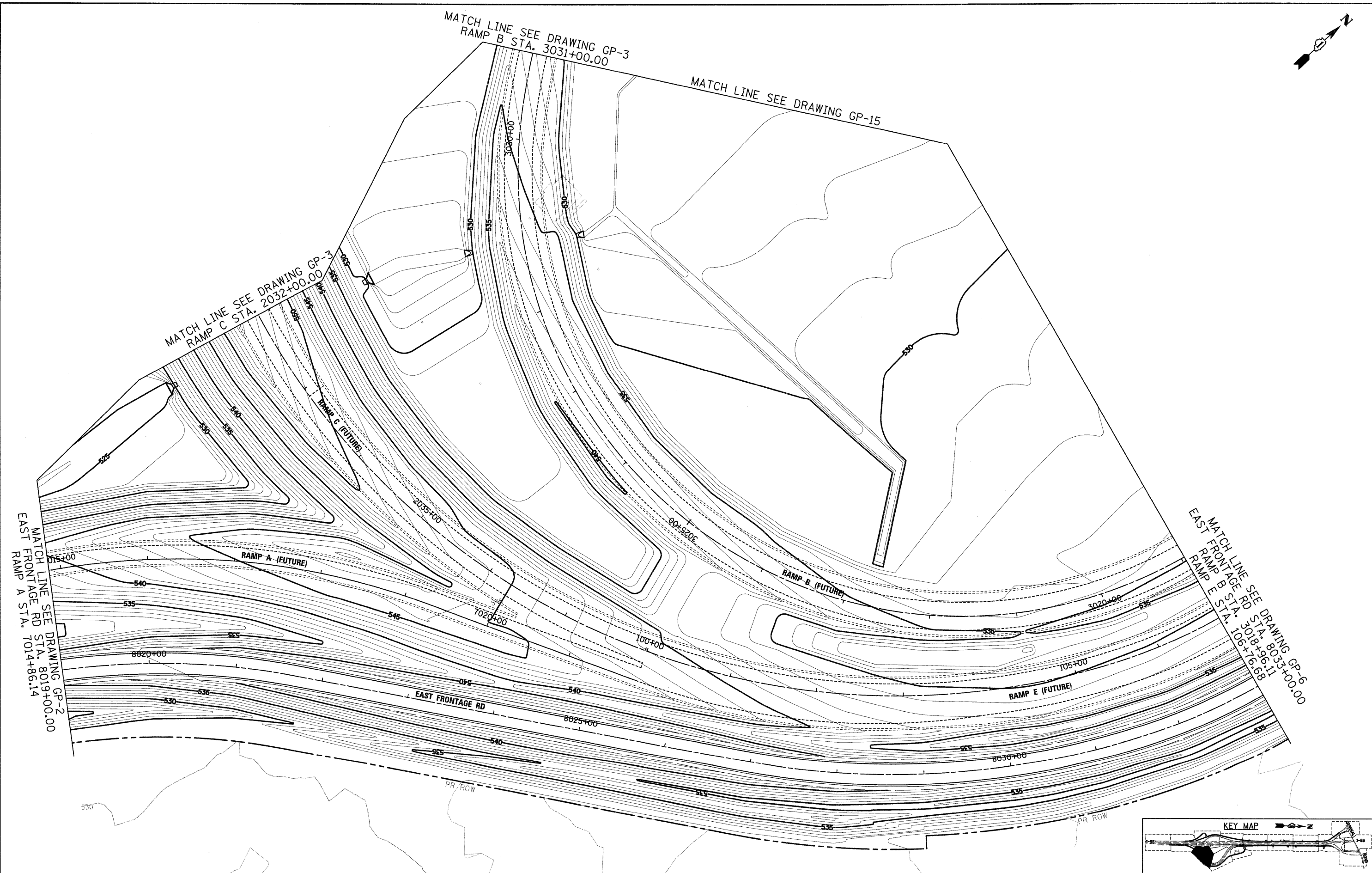
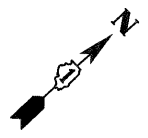
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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
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:\62031-SHT-GRADING\04.dgn  
USER NAME = TKluegel

DESIGNED - MJT  
DRAWN - MJT  
PLOT SCALE = 1:50  
PLOT DATE = 12/11/2009

REVISIONS  
REVISION NO. | DATE | BY | DESCRIPTION  
1 | 12/18/09 | DLT | CHECKED

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

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  
GP-4

FILE NAME =	USER NAME = TK1uegl
D1680C31-SHT-GRADING05.dgn	
PLOT SCALE = 1:50	
PLOT DATE = 12/11/2009	

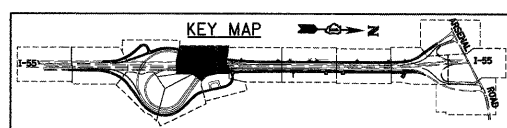
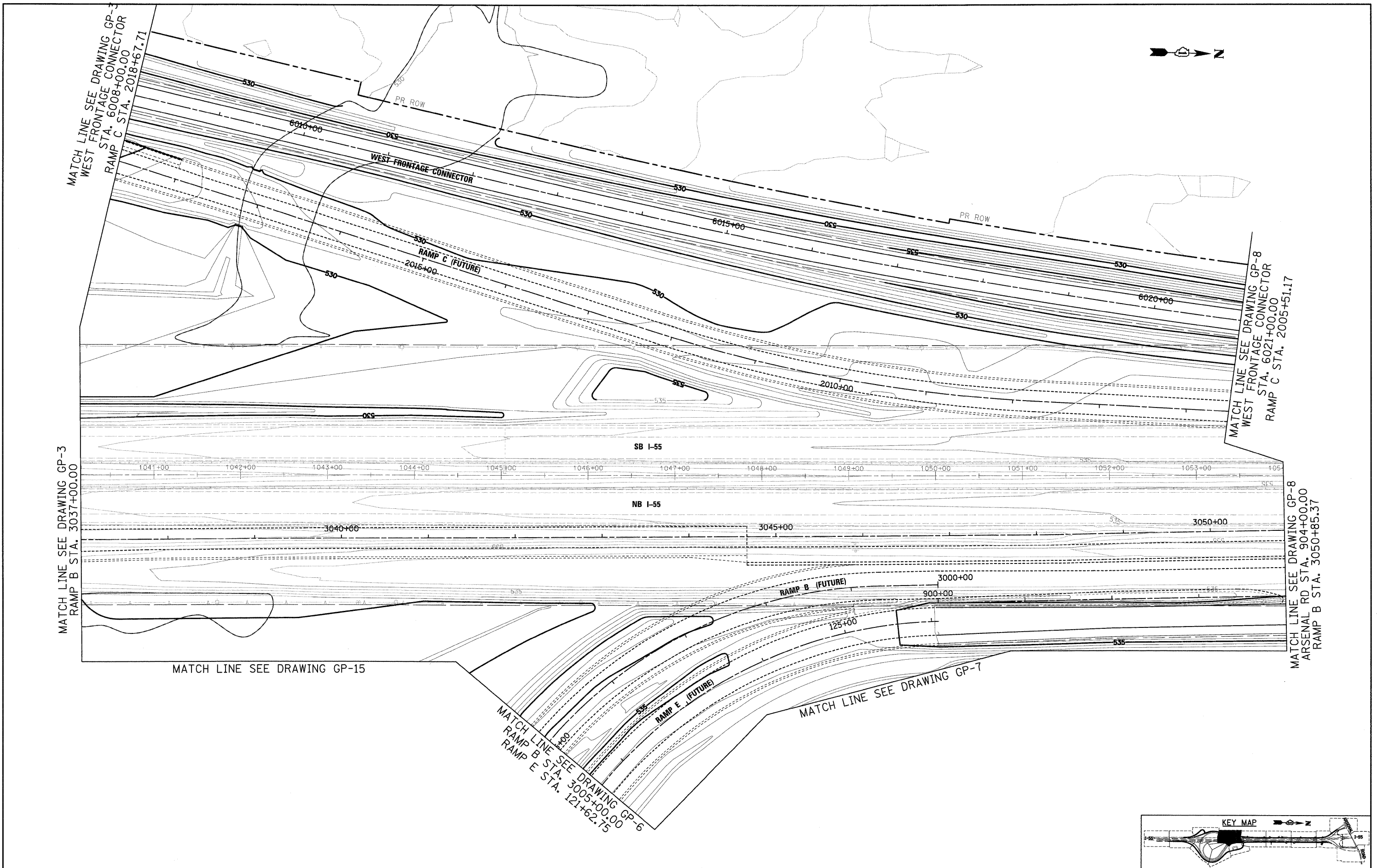
DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - DLT	REVISED -
DATE - 12/18/09	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

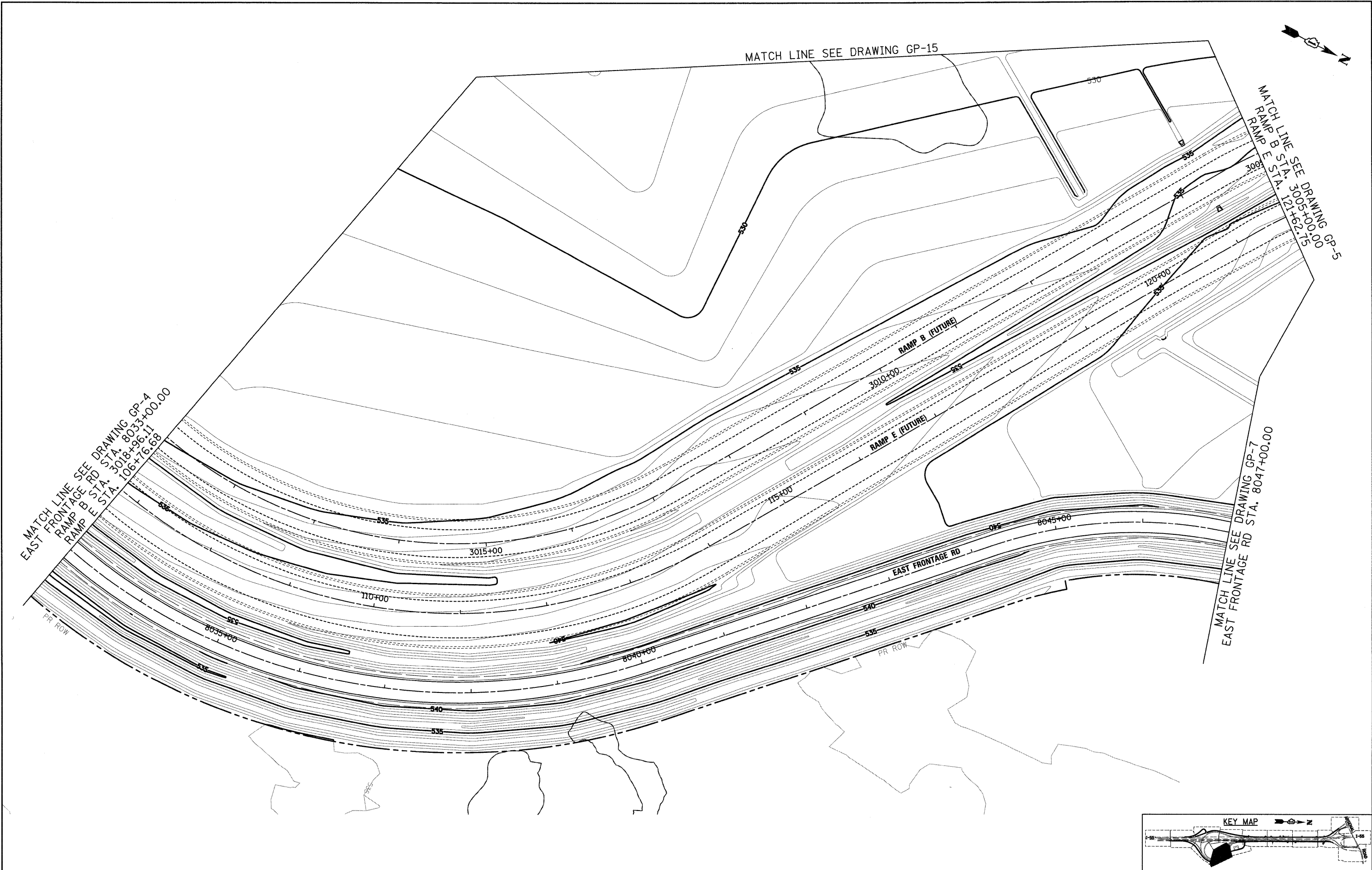
GRADING PLAN

SCALE: 1"=50' SHEET NO. 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			ILLINOIS FED. AID PROJECT	







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

FILE NAME =  
 0160C31-SHT-GRADING06.dgn

USER NAME = TK1uegej  
 PLOT SCALE = 1:50  
 PLOT DATE = 12/11/2009

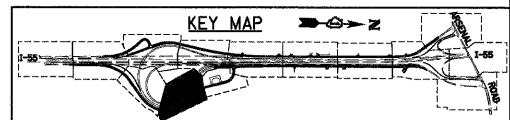
DESIGNED - MJT  
 DRAWN - MJT  
 CHECKED - DLT  
 DATE - 12/18/09

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GRADING PLAN

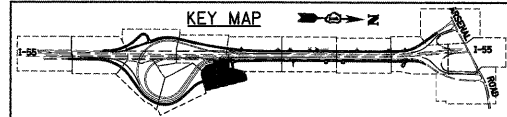
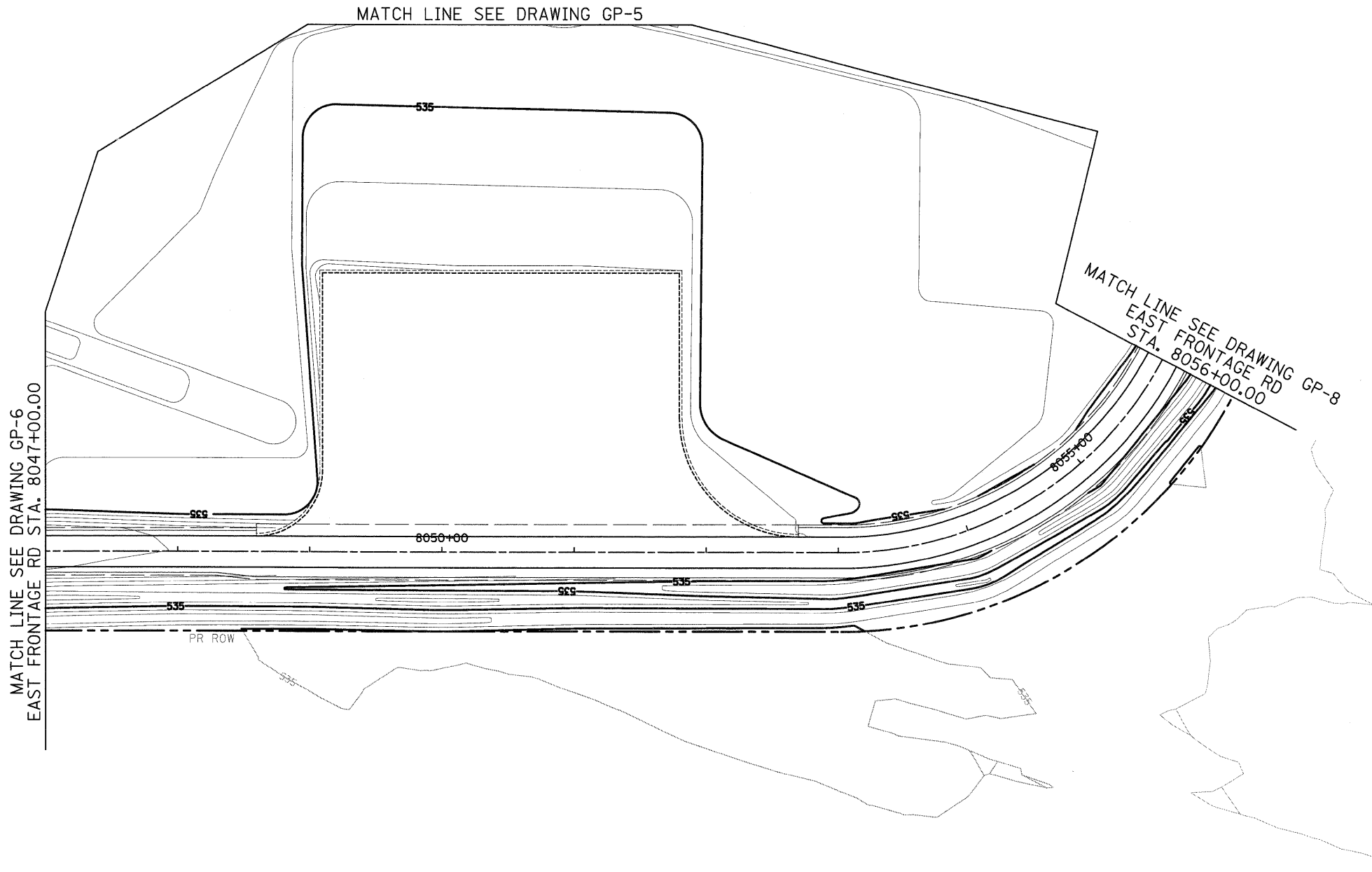
SCALE: 1"=50' SHEET NO. 6 OF 15 SHEETS STA. TO STA.



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





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

FILE NAME = D:\620C31-SHT-GRADING07.dgn  
 USER NAME = TK1uegl  
 PLOT SCALE = 1:50  
 PLOT DATE = 12/11/2009

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

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

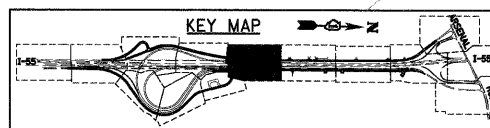
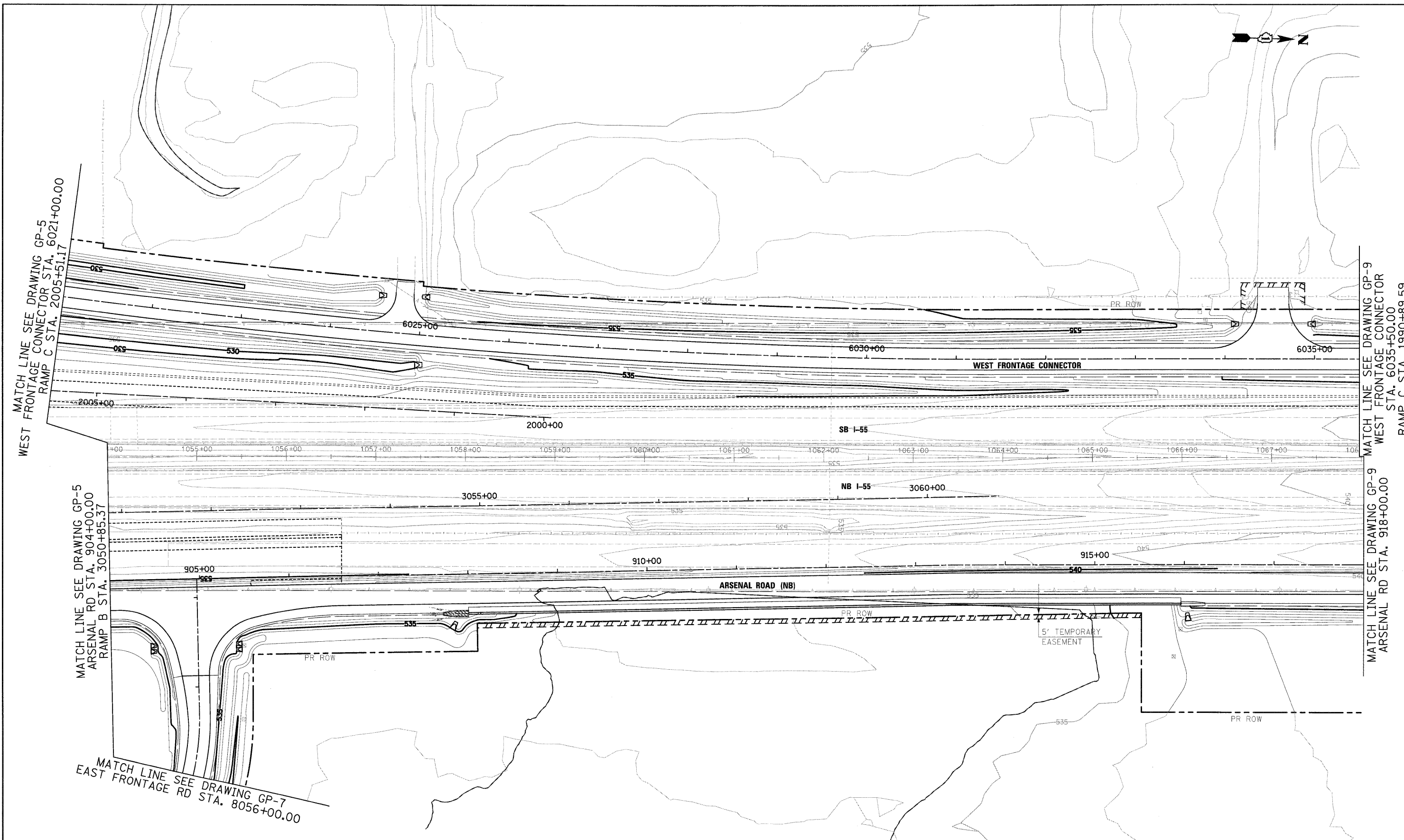
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**

SCALE: 1"=50' SHEET NO. 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	190
CONTRACT NO. 60C31				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**FINAL**



FILE NAME =	USER NAME = TKluagl
D168C31-SHT-GRADING89.dgn	

PLOT SCALE = 1:50	DESIGNED - MJT	REVISED -
PLOT DATE = 12/11/2009	DRAWN - MJT	REVISED -
	CHECKED - DLT	REVISED -
	DATE 12/18/09	REVISED -

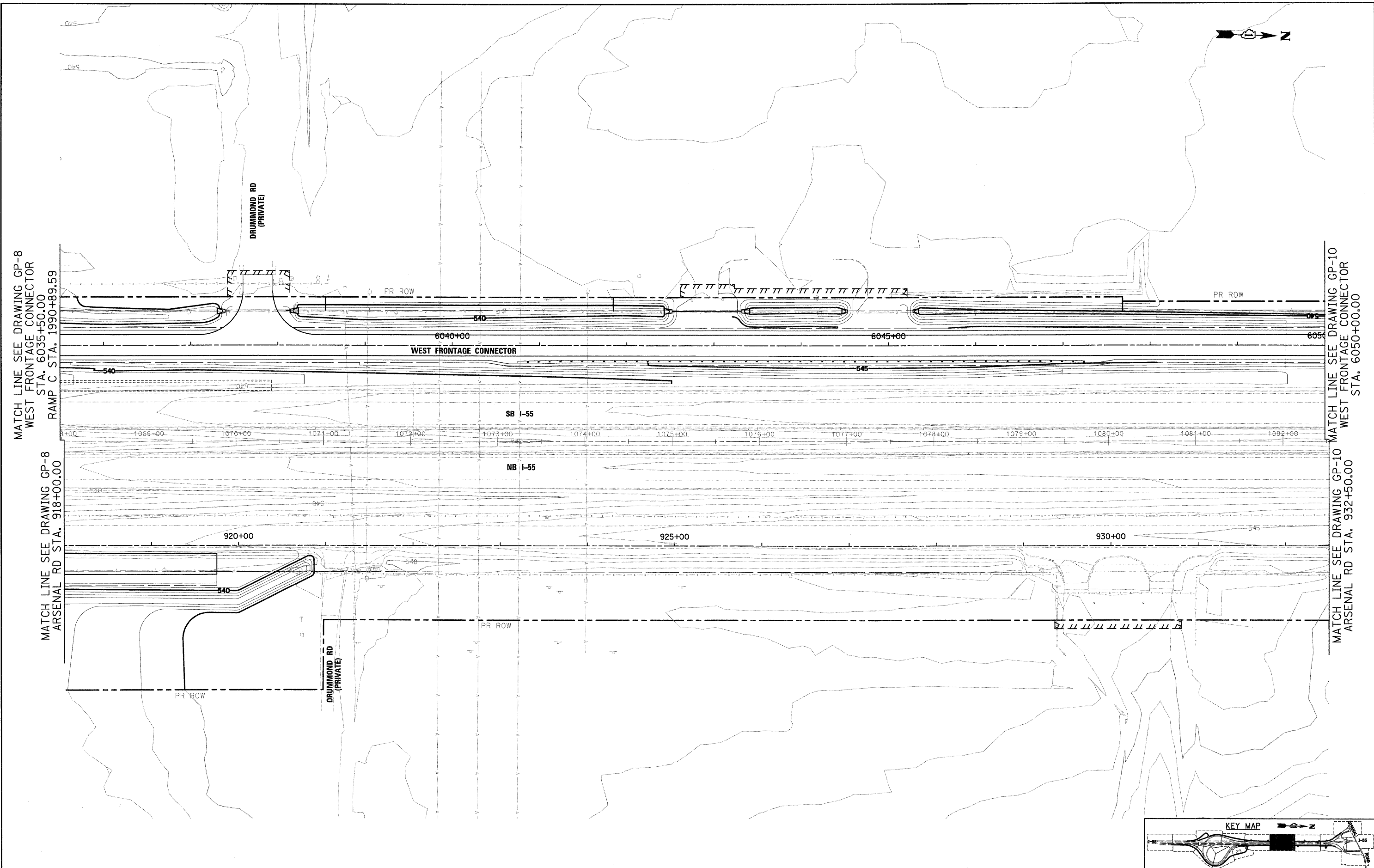
DESIGNED - MJT	REVISED -
DRAWN - MJT	REVISED -
CHECKED - DLT	REVISED -
DATE 12/18/09	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>GRADING PLAN</b>	
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**

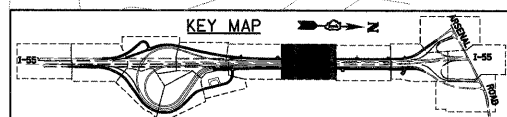


FILE NAME = D:\168\C31-SHT-GRADING\9.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -
	PLOT SCALE = 1:50	DRAWN - MJT	REVISED -
	PLOT DATE = 12/11/2009	CHECKED - DLT	REVISED -
		DATE - 12/18/09	REVISED -

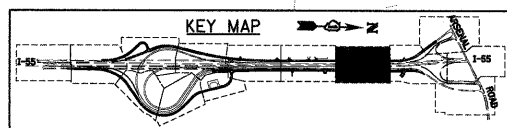
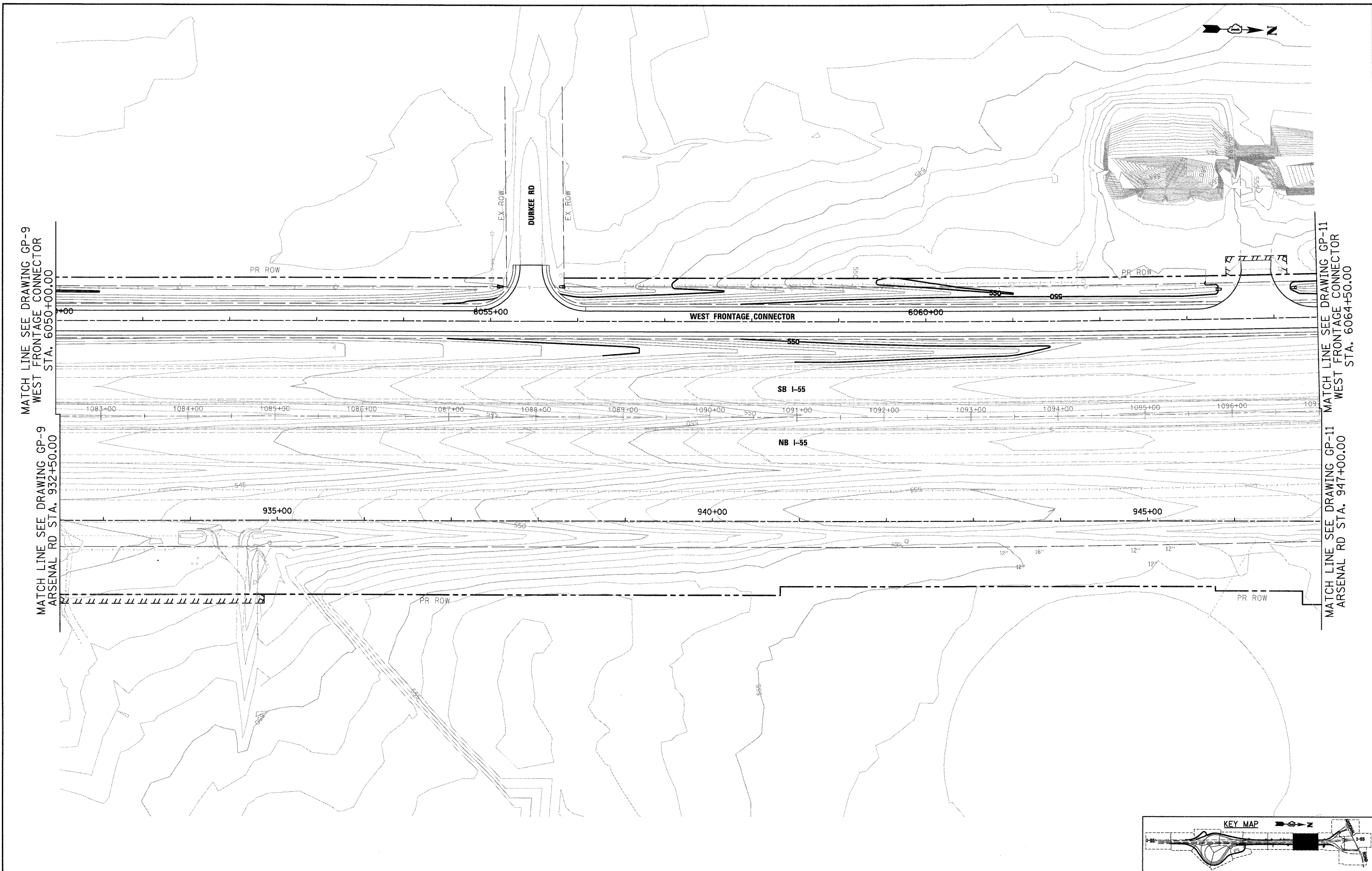
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GRADING PLAN**

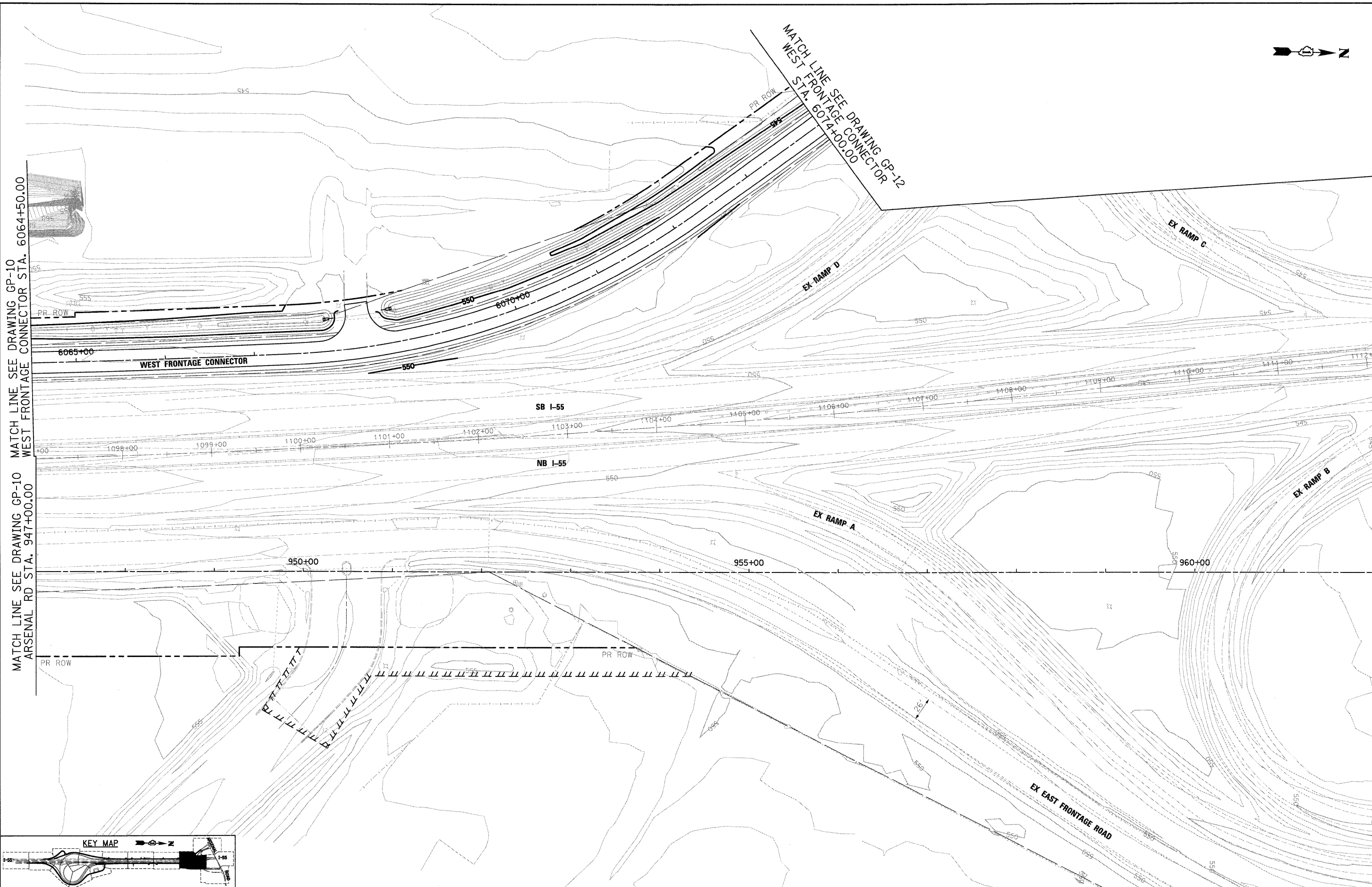
SCALE: 1"=50' SHEET NO. 9 OF 15 SHEETS STA. TO STA.



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	



FILE NAME = D1680C31-SHT-GRADING10.dgn	USER NAME = TK1uege1	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 193
PLOT SCALE = 1:50	CHECKED - DLT	DATE - 12/18/09	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'		SHEET NO. 10 OF 15 SHEETS				STA. TO STA.				

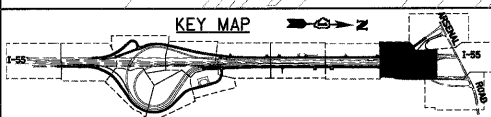


FILE NAME = D:\62031-SHT-GRADING\11.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GRADING PLAN</b>	F.A.I. RTE. 55	SECTION (99-1&2)AC-3	COUNTY WILL	TOTAL SHEETS 524	SHEET NO. 194
	PLOT SCALE = 1:50	CHECKED - DLT	DATE - 12/18/09			REVISED -	CONTRACT NO. 60C31	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	
PLOT DATE = 12/11/2009	DATE - 12/18/09	REVISED -	REVISED -	SCALE: 1"=50'	SHEET NO. 11 OF 15 SHEETS	STA. TO STA.				

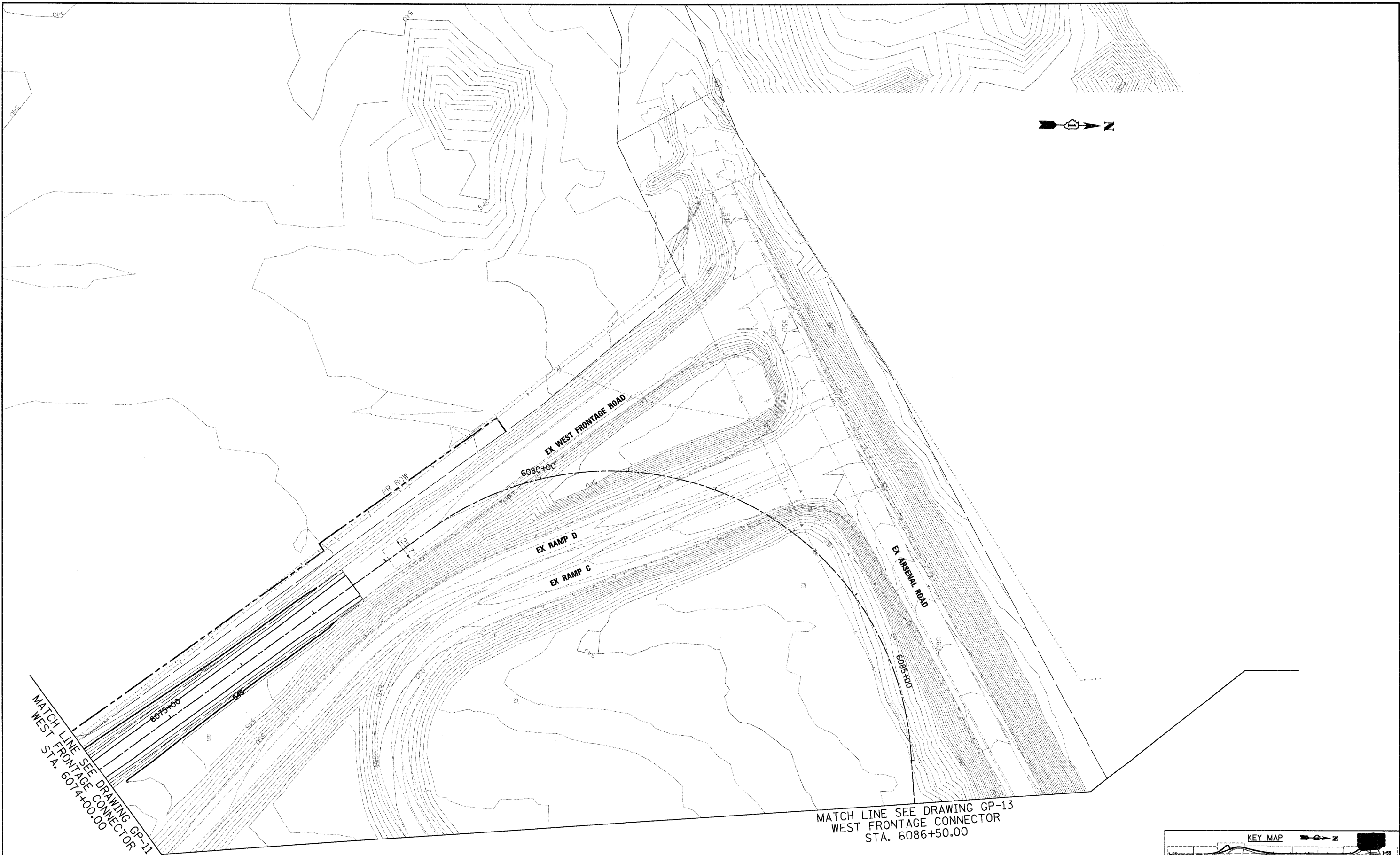
MATCH LINE SEE DRAWING GP-13 ARSENAL RD STA. 962+00.00

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







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

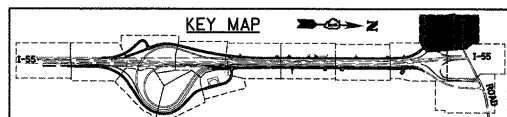
FILE NAME = D:\60C31-SHT-GRADING12.dgn  
 USER NAME = TKluigel  
 PLOT SCALE = 1:50  
 PLOT DATE = 12/11/2009

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

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

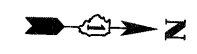
**GRADING PLAN**

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



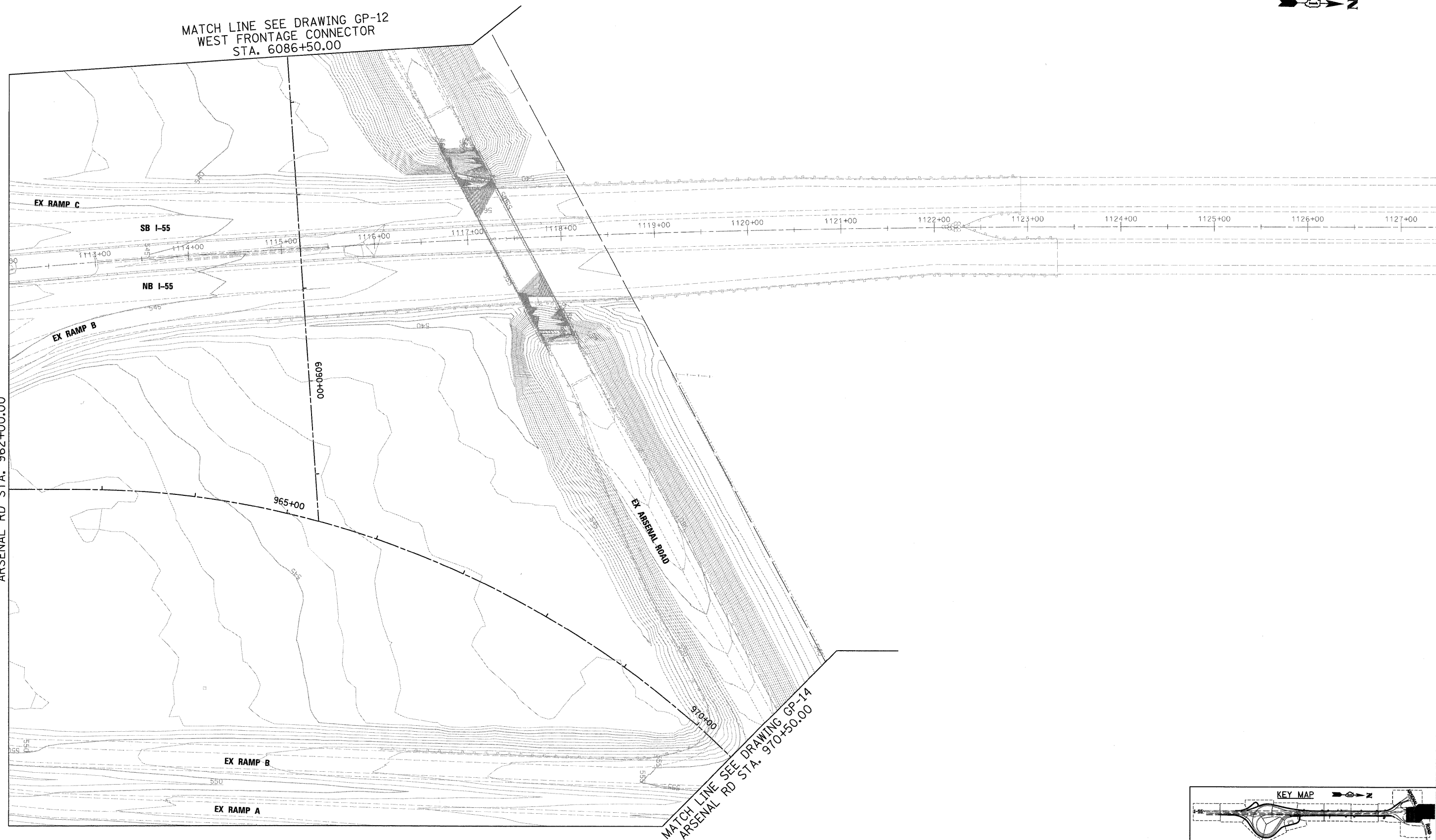
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(99-1&2)AC-3	WILL	524	195
CONTRACT NO. 60C31				

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

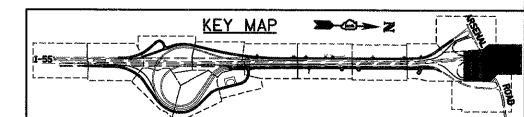


MATCH LINE SEE DRAWING GP-12  
WEST FRONTAGE CONNECTOR  
STA. 6086+50.00

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



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



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

FILE NAME = D168C31-SHT-GRADING13.dgn	USER NAME = TKluegel	DESIGNED - MJT	REVISED -
		DRAWN - MJT	REVISED -
	PLOT SCALE = 1:50	CHECKED - DLT	REVISED -
	PLOT DATE = 12/11/2009	DATE - 12/18/09	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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	

**FINAL**

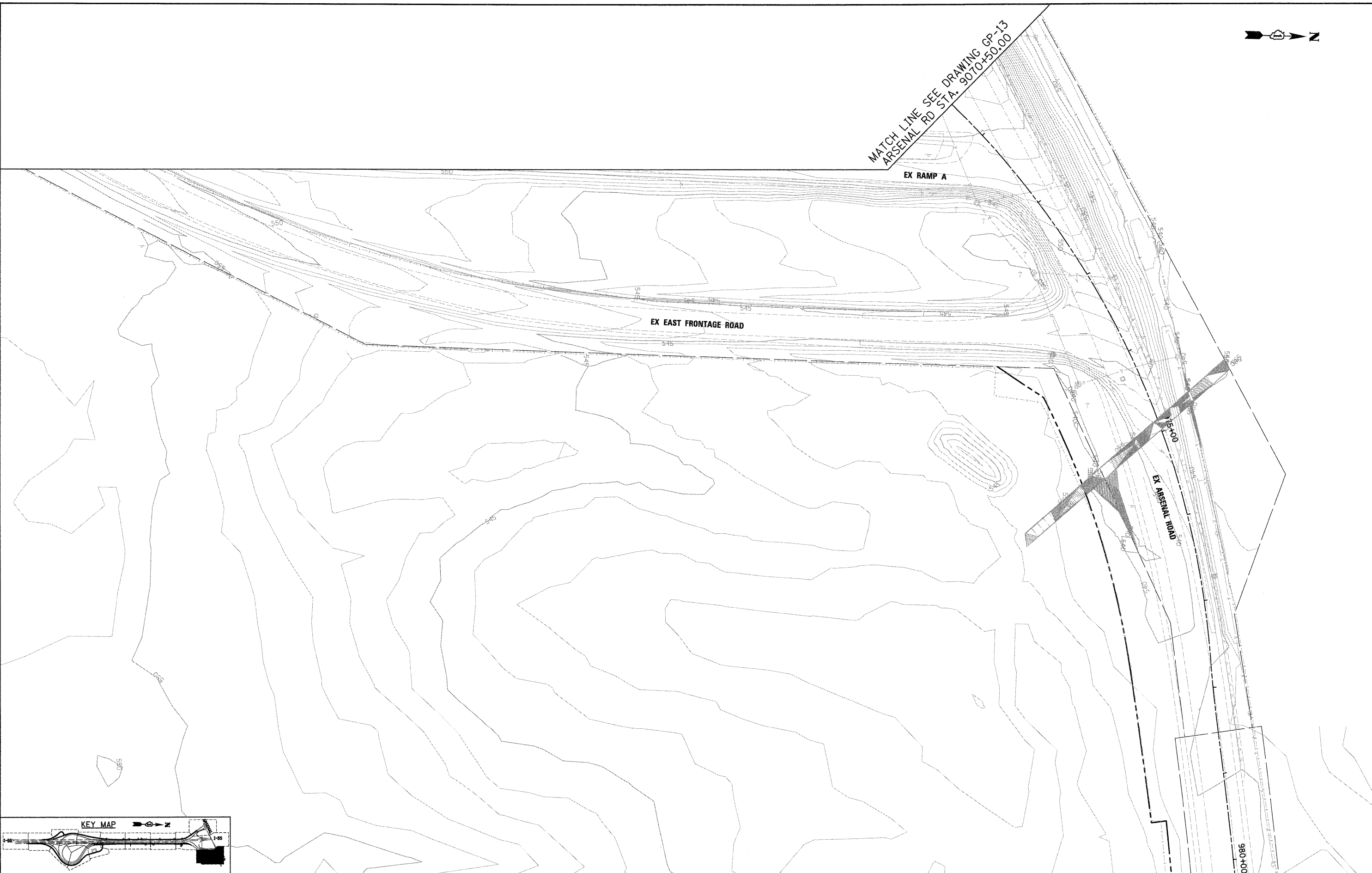


MATCH LINE SEE DRAWING GP-13  
ARSENAL RD STA. 9070+50.00

EX RAMP A

EX EAST FRONTAGE ROAD

EX ARSENAL ROAD



KEY MAP



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

FILE NAME =  
D160C31-SHT-GRADING14.dgn

USER NAME = TKluegel  
PLOT SCALE = 1:50  
PLOT DATE = 12/11/2009

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

REVISED -  
REVISED -  
REVISED -  
REVISED -

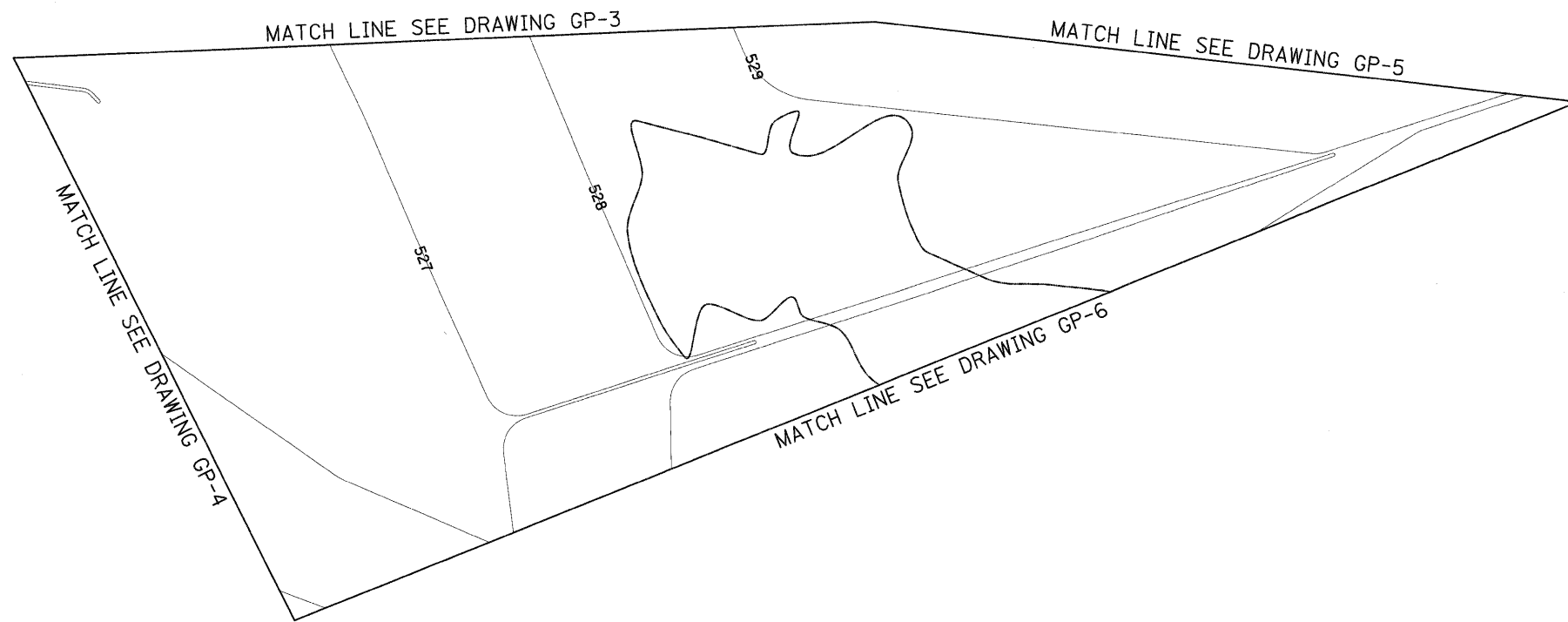
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

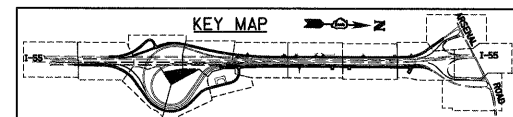
SCALE: 1"=50' SHEET NO. 14 OF 15 SHEETS STA. TO STA.

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

FINAL



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



FILE NAME = D:\60C31-SHT-GRADING15.dgn  
 USER NAME = TKluegel  
 PLOT SCALE = 1:50  
 PLOT DATE = 12/11/2009

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

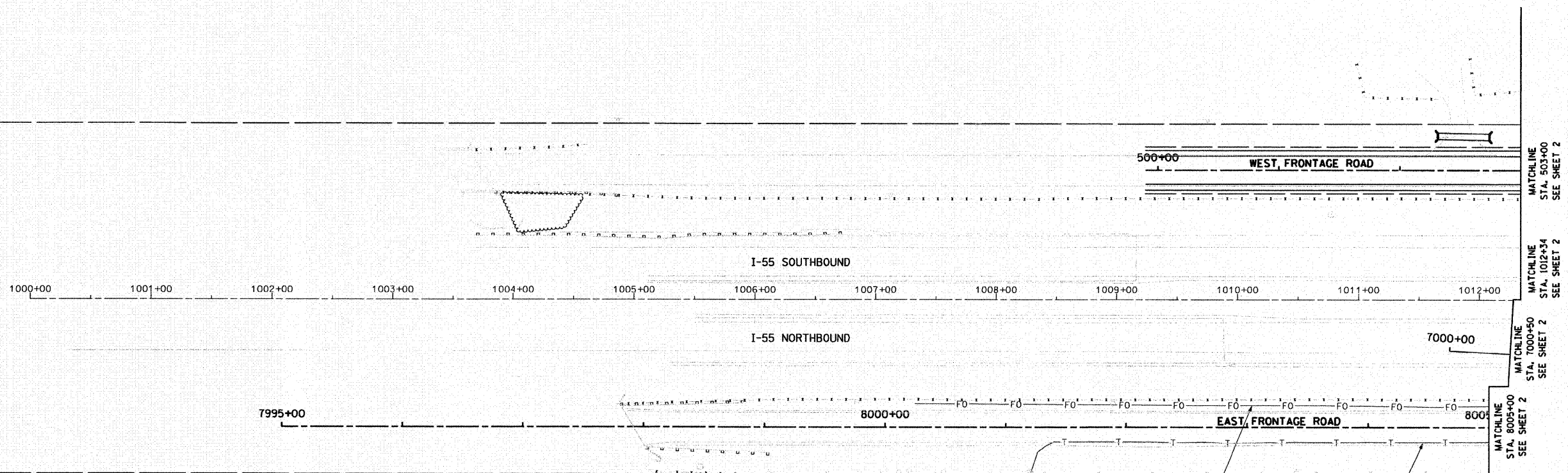
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

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

**GRADING PLAN**

SCALE: 1"=50'    SHEET NO. 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
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C31	



**LEGEND**

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

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

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.

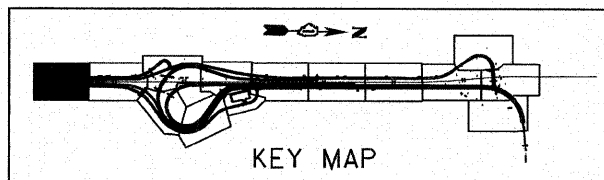


*Steven M. Rienks*  
 STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
 MY LICENSE EXPIRES 11/30/2009

- 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.

AT&T UNDERGROUND TELEPHONE LINE  
 SUE QUALITY LEVEL B

UNKNOWN UNDERGROUND FIBER OPTIC LINE  
 SUE QUALITY LEVEL B



**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 SURVEYORS - ENGINEERS  
 GEODESISTS - MAPPING SCIENTISTS  
 Chicago 773-444-0800 / Fax 773-444-0808  
 Dixon 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 -

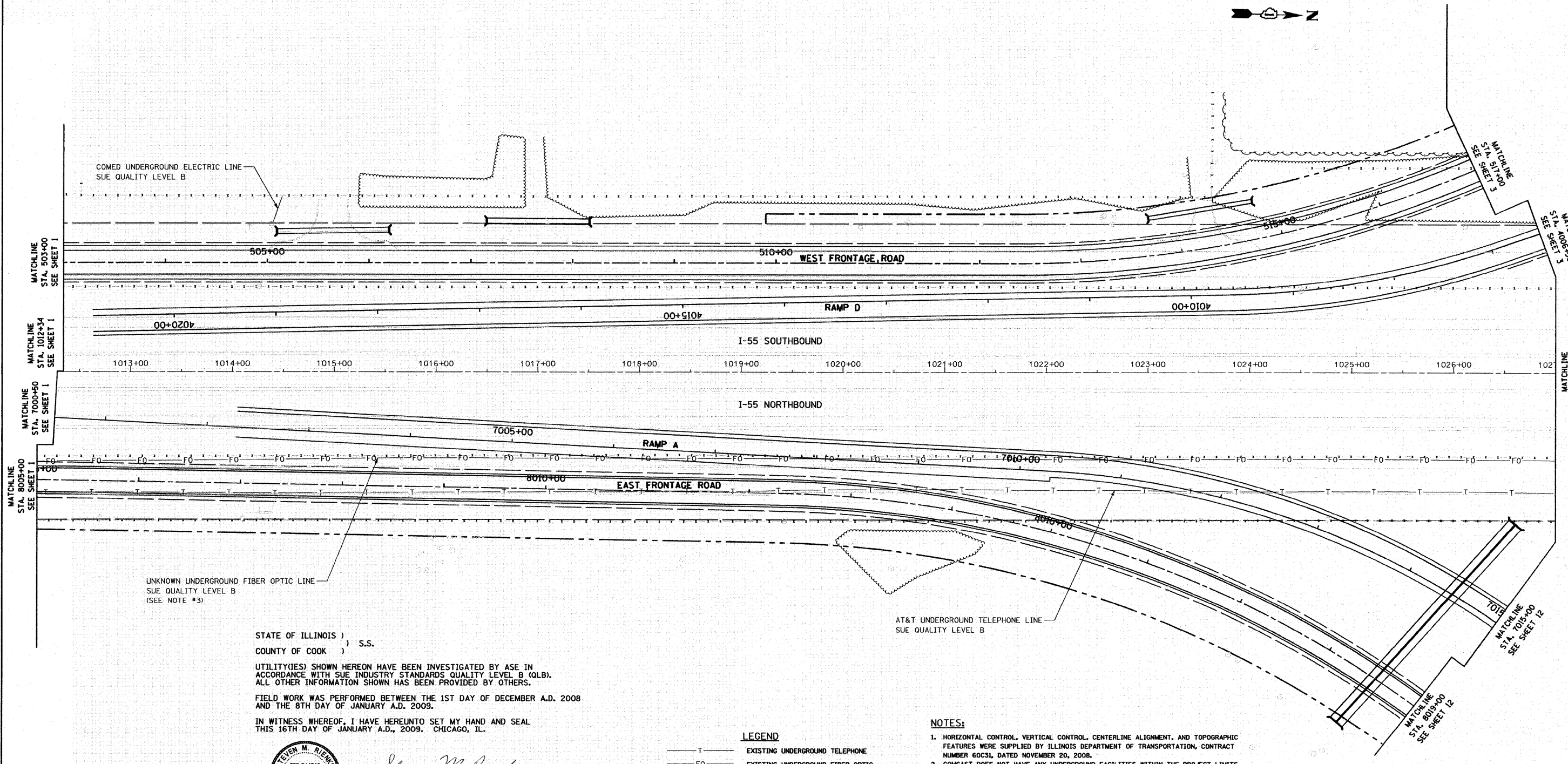
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUE INVESTIGATION OF  
 UNDERGROUND UTILITIES

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

FINAL





COMED UNDERGROUND ELECTRIC LINE  
SUE QUALITY LEVEL B

UNKNOWN UNDERGROUND FIBER OPTIC LINE  
SUE QUALITY LEVEL B  
(SEE NOTE #3)

AT&T UNDERGROUND TELEPHONE LINE  
SUE QUALITY LEVEL B

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.



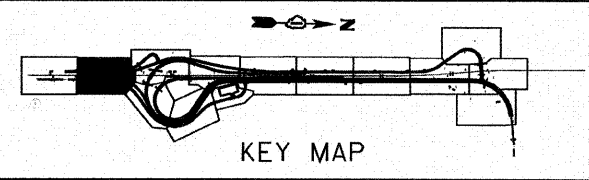
*Steven M. Rienks*  
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER  
ENGINEER NUMBER 62-044619  
MY LICENSE EXPIRES 11/30/2009

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

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, AND TOPOGRAPHIC FEATURES WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION, CONTRACT NUMBER 60C31, DATED NOVEMBER 20, 2008.
2. COMCAST DOES NOT HAVE ANY UNDERGROUND FACILITIES WITHIN THE PROJECT LIMITS.
3. 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.

**AMERICAN**  
SURVEYING & ENGINEERING, P.C.  
SURVEYORS - ENGINEERS  
GEODESISTS - MAPPING SCIENTISTS  
Chicago 773-444-0800 / Fax 773-444-0808  
Dixon 815-288-6231 / Fax 815-288-6277  
Aurora 630-897-4105 / Fax 630-897-4121  
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**

<b>SUE INVESTIGATION OF UNDERGROUND UTILITIES</b>			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

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

**FINAL**