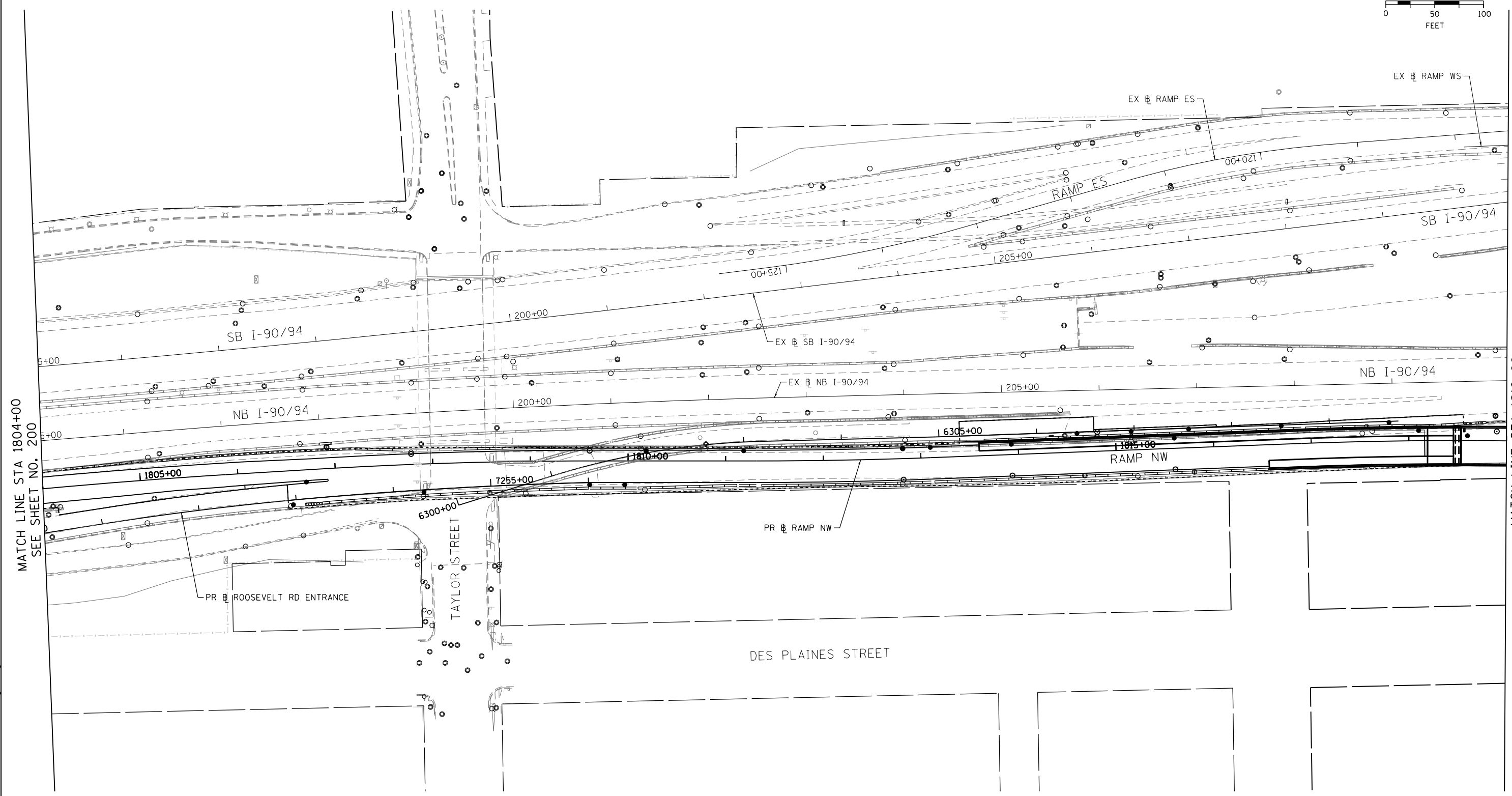




GRAPHIC SCALE



MATCH LINE STA 1804+00
SEE SHEET NO. 200

MATCH LINE STA 1819+00
SEE SHEET NO. 202

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stegal-02.dgn



D160W28-sht-Eros-Stegal-02.dgn
USER NAME = schmanski
PLOT SCALE = 100.0000' / 1" =
PLOT DATE = 4/27/2014

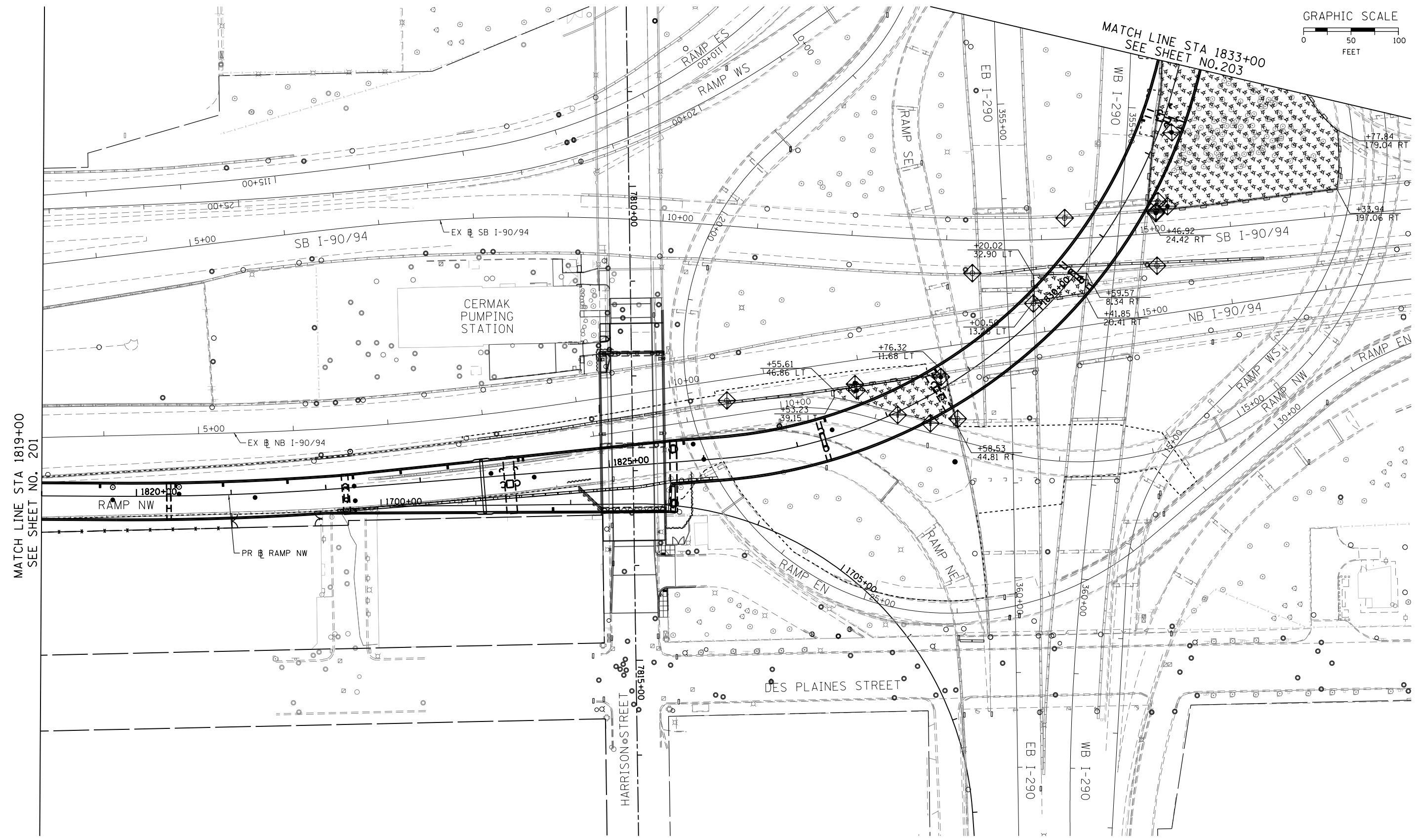
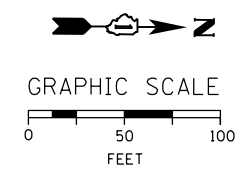
DESIGNED - AFC
DRAWN - AFC
CHECKED - DBM
DATE - 04/28/14
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 1

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 1804+00 TO STA. 1819+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	201
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 1819+00
SEE SHEET NO. 201

MATCH LINE STA 1833+00
SEE SHEET NO. 203

FILE PATH = C:\Users\schmanski\OneDrive\Desktop\60W28\0160W28-sht-Eros-Stegal-03.dgn



D160W28-sht-Eros-Stegal-03.dgn
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 PLOT SCALE = 100.0000' / 1" / 1" / 1"
 PLOT DATE = 4/27/2014

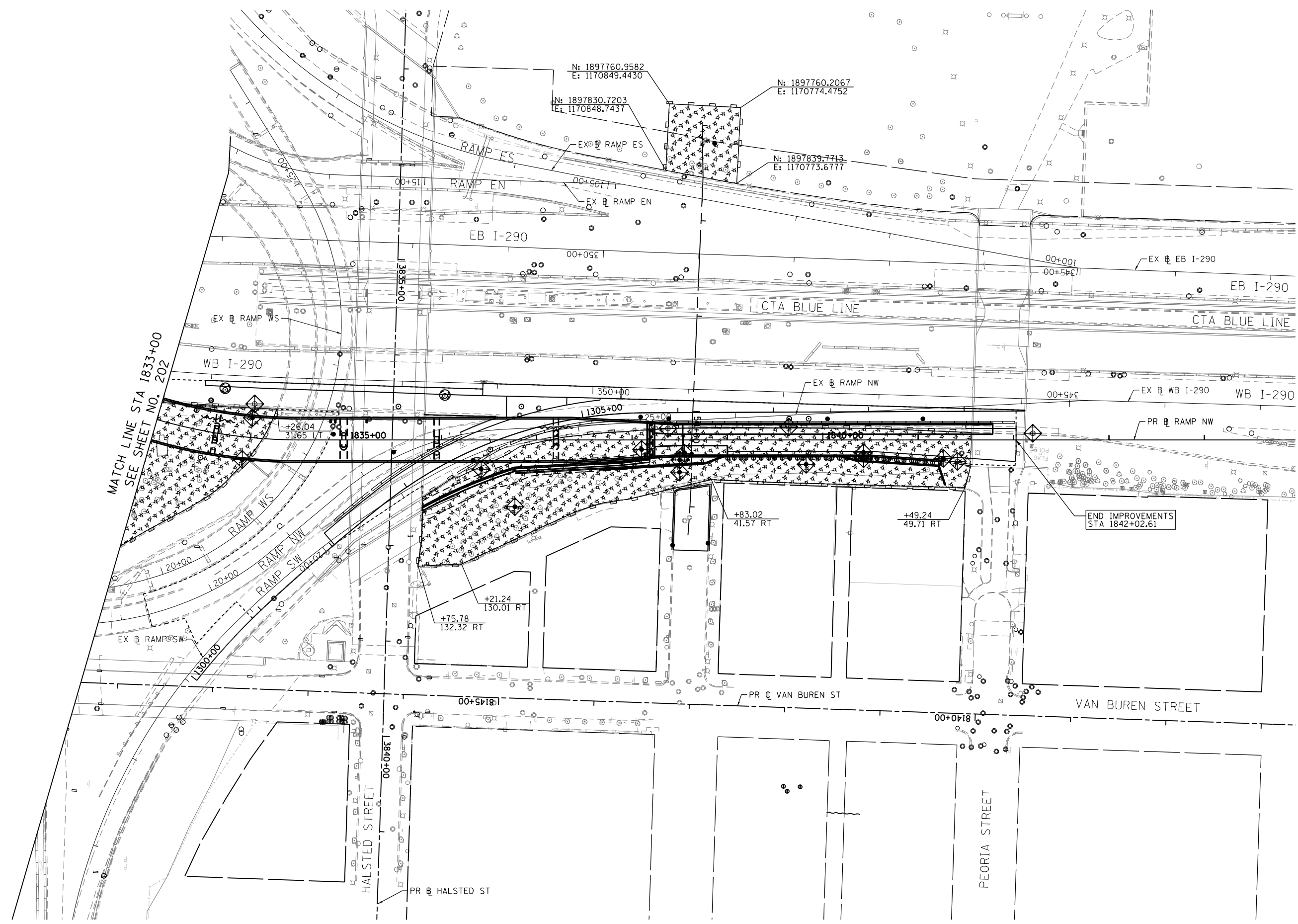
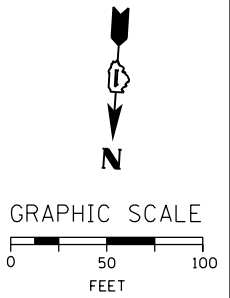
DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 1**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 1819+00 TO STA. 1833+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 202
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



FILE PATH = C:\Users\schmanskid\Desktop\60W28\0160W28-sht-Eros-Stage1-04.dgn



D160W28-sht-Eros-Stage1-04.dgn
 USER NAME = schmanskid
 PLOT SCALE = 100.0000' / 1" / 100'
 PLOT DATE = 4/27/2014

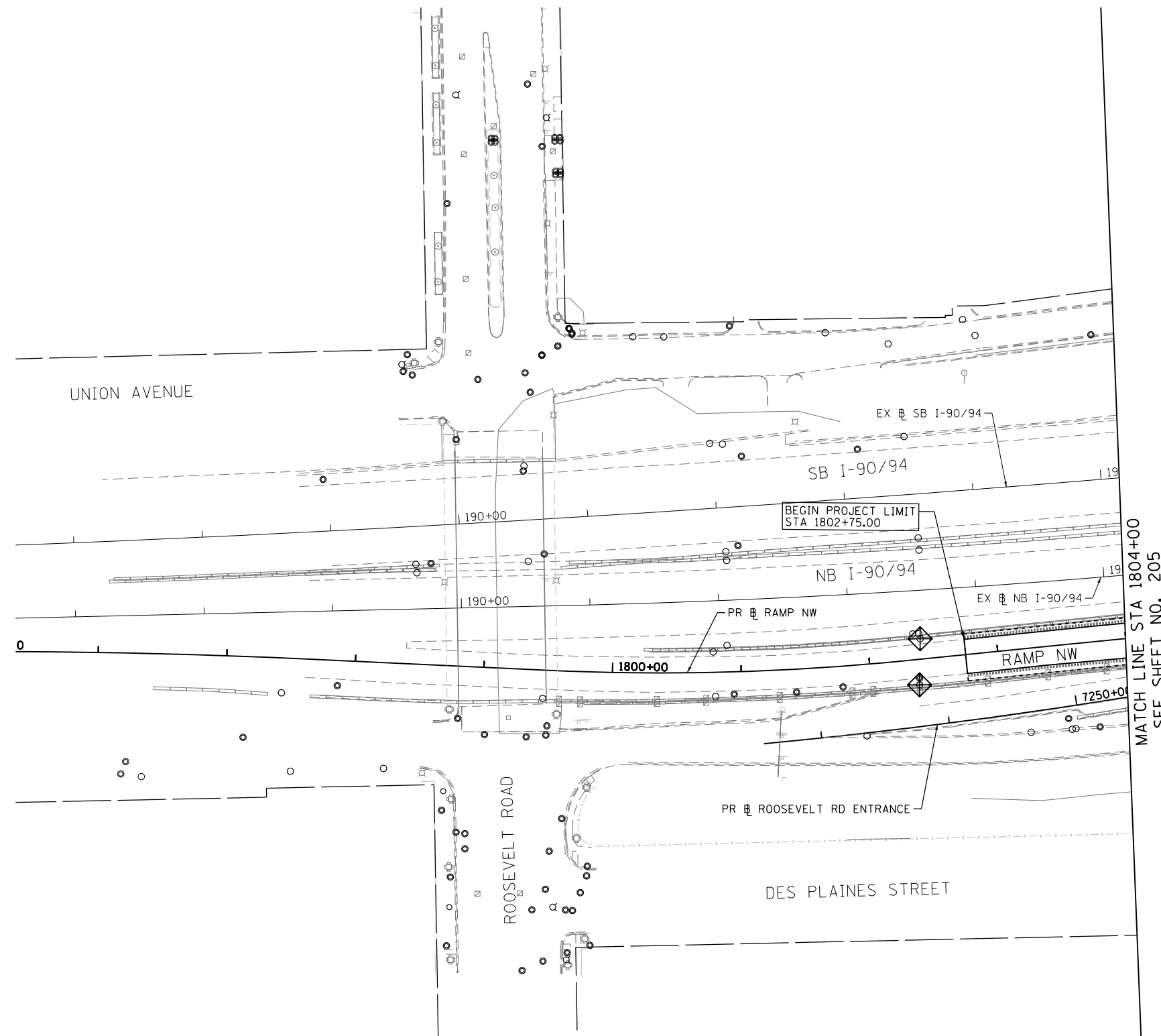
DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
 STAGE 1**

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 1833+00 TO STA. 1842+02.61

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	203
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage2-01.dgn



D160W28-sht-Eros-Stage2-01.dgn
 USER NAME = schmanski
 PLOT SCALE = 100.0000' / 1" = 100
 PLOT DATE = 4/27/2014

DESIGNED - AFC
 DRAWN - AFC
 CHECKED - DBM
 DATE - 04/28/14

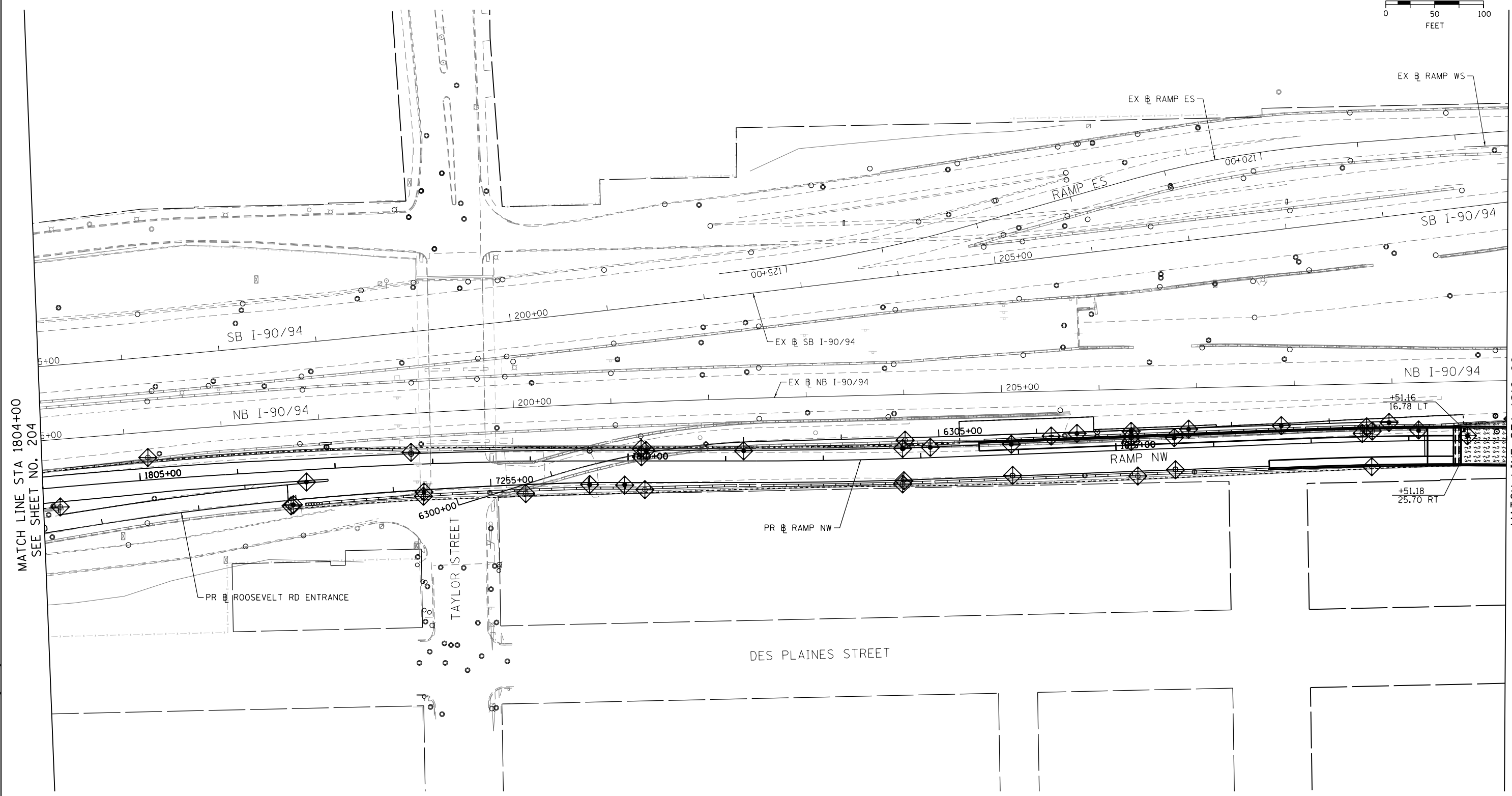
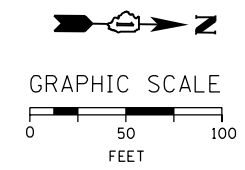
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENTATION CONTROL PLAN
 STAGE 2

SCALE: 1' = 50' SHEET 1 OF 4 SHEETS STA. 1802+75 TO STA. 1804+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	204
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 1804+00
SEE SHEET NO. 204

MATCH LINE STA 1819+00
SEE SHEET NO. 206

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage2-02.dgn



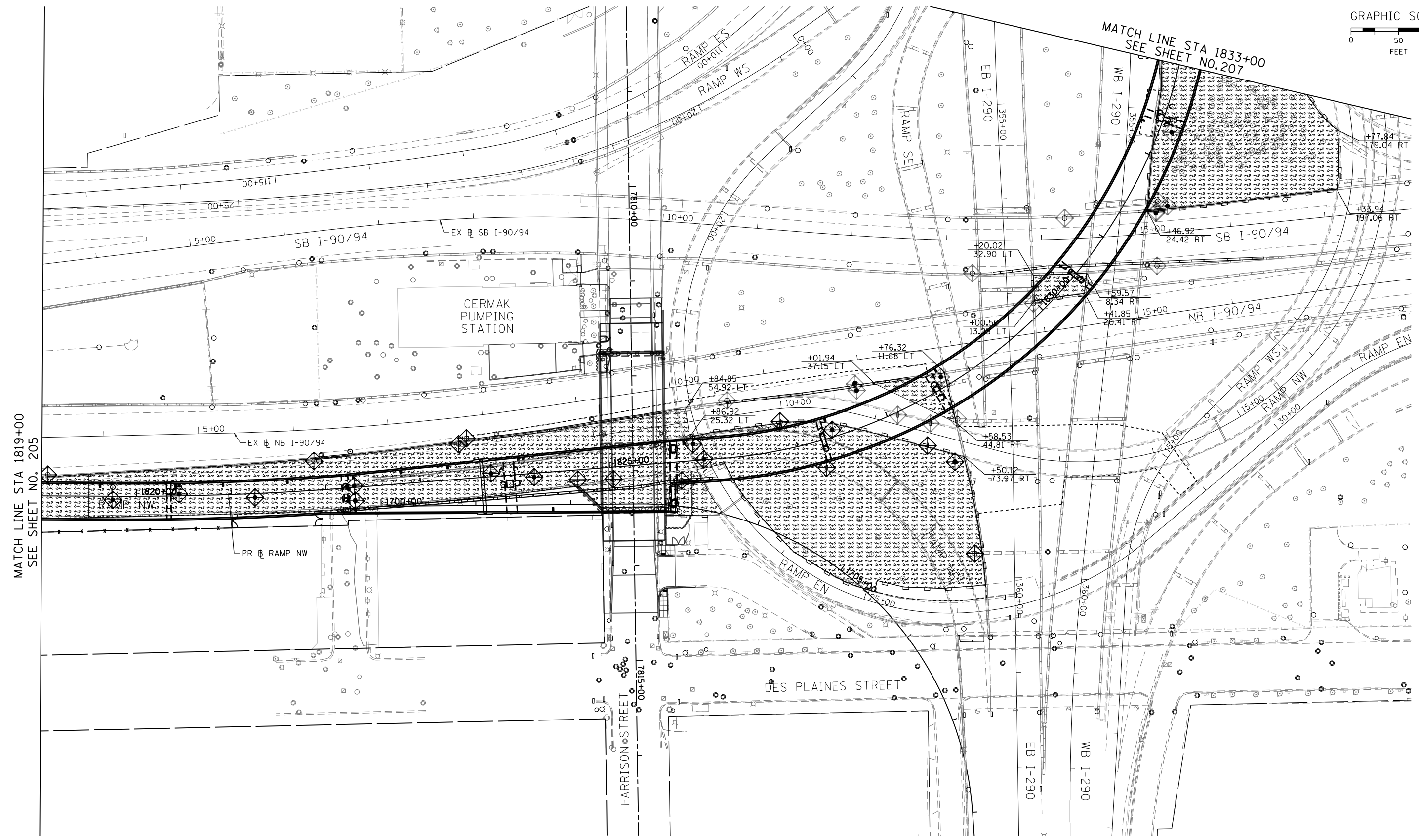
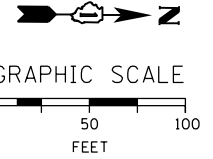
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USER NAME = schmanski
PLOT SCALE = 100.0000' / 1" = 100'
PLOT DATE = 4/27/2014

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 2**
SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 1804+00 TO STA. 1819+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	205
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1819+00
SEE SHEET NO. 205

MATCH LINE STA 1833+00
SEE SHEET NO. 207

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage2-03.dgn



D160W28-sht-Eros-Stage2-03.dgn
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 PLOT SCALE = 100.0000' / 1" = 100'
 PLOT DATE = 4/27/2014

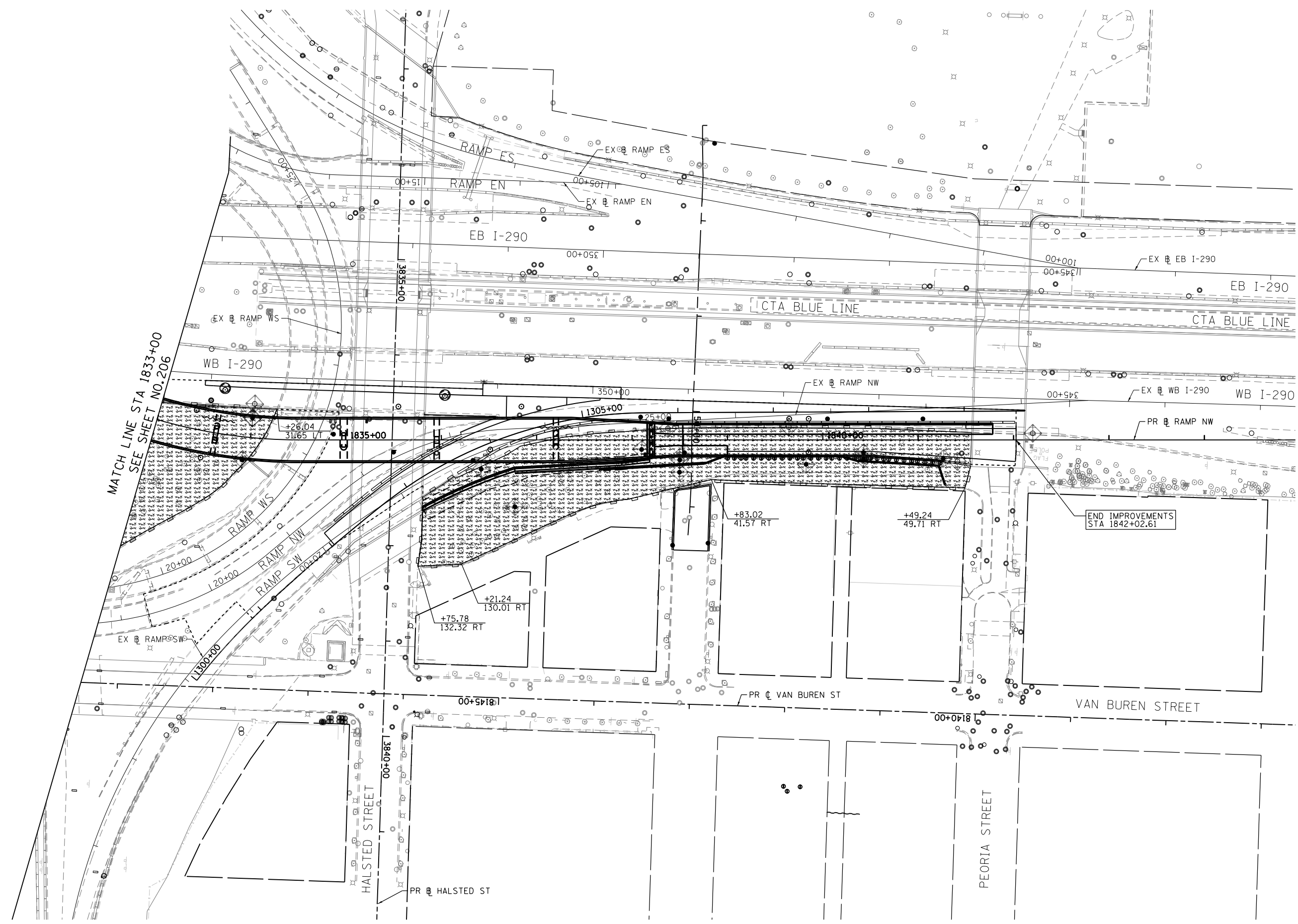
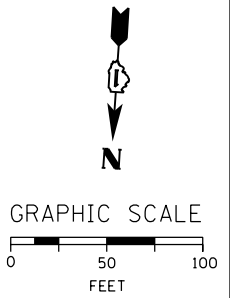
DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 2**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 1819+00 TO STA. 1833+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 206
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 1833+00
SEE SHEET NO. 206

END IMPROVEMENTS
STA 1842+02.61

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage2-04.dgn



D160W28-sht-Eros-Stage2-04.dgn
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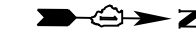
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

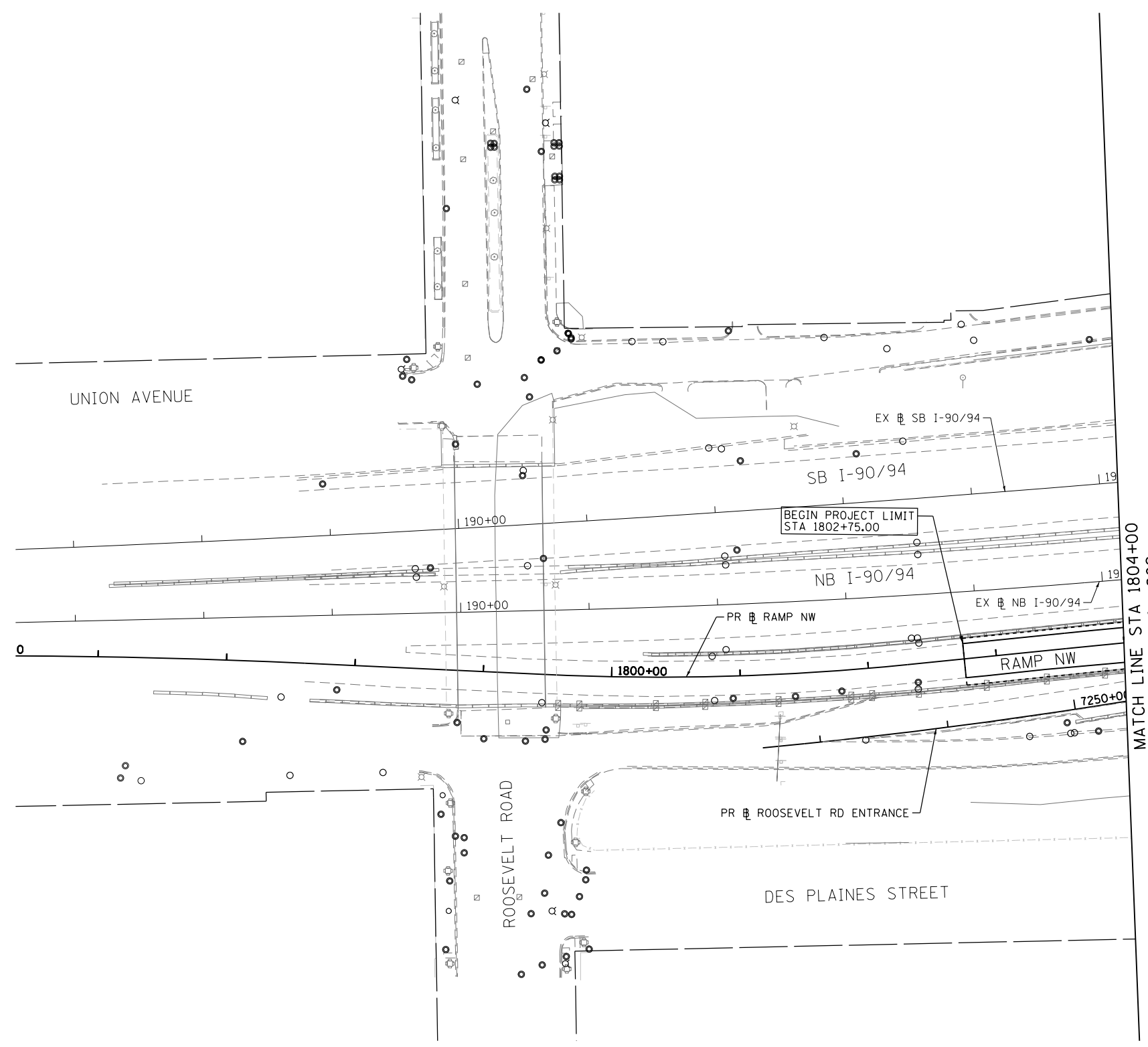
EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 2

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 1833+00 TO STA. 1842+02.61

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	207
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



GRAPHIC SCALE



MATCH LINE STA 1804+00
SEE SHEET NO. 209

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage3a-C-01.dgn



DI60W28-sht-Eros-Stage3a-C-01.dgn
USER NAME = schmanski
PLOT SCALE = 100.0000' / 1" =
PLOT DATE = 4/27/2014

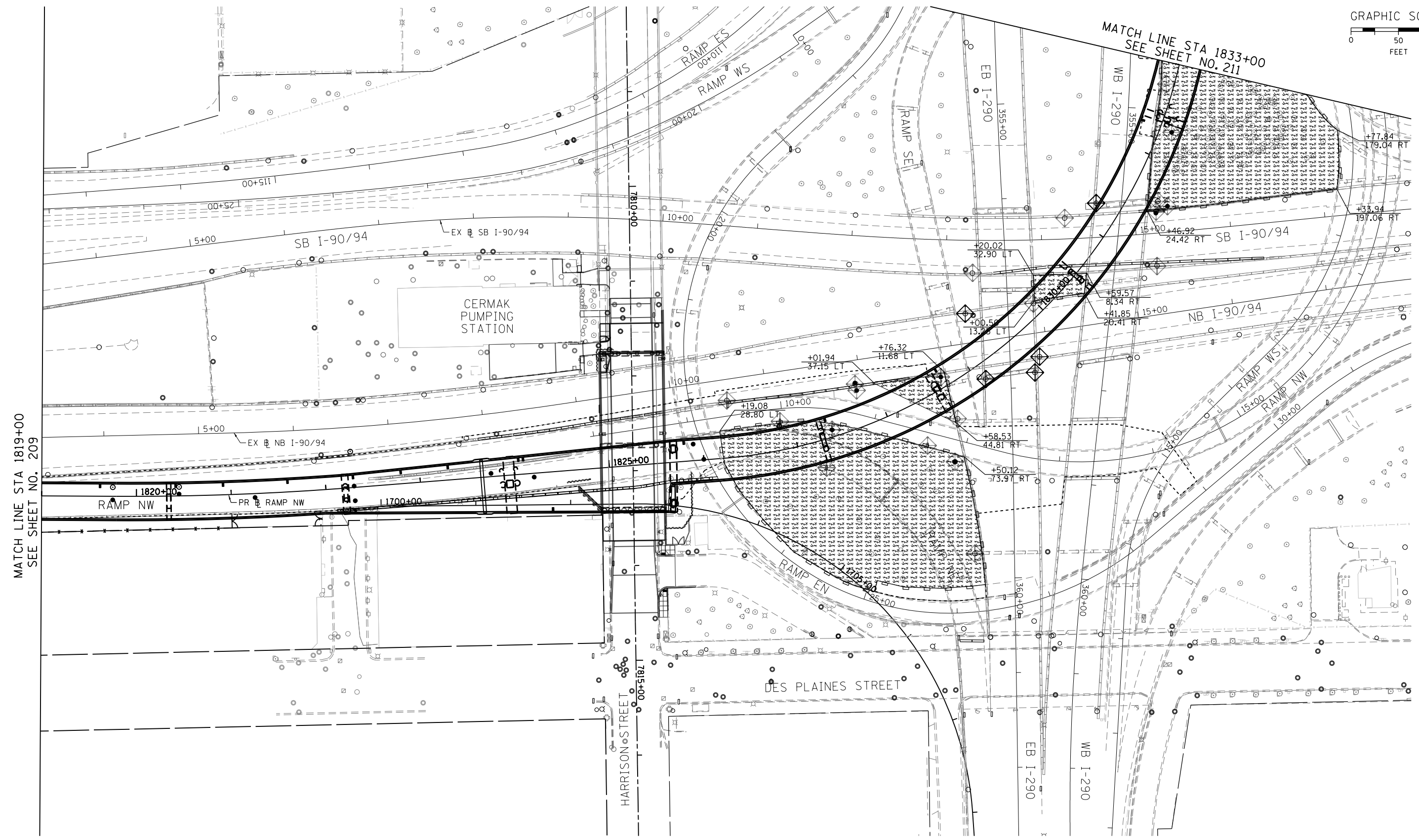
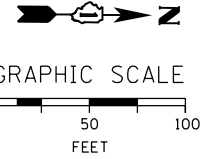
DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENTATION CONTROL PLAN
STAGES 3A-C

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 1802+75 TO STA. 1804+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	208
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1819+00
SEE SHEET NO. 209

FILE PATH = C:\Users\schmanski\Desk_top\60W28\DI60W28-sht-Eros-Stage3A-C-03.dgn



DI60W28-sht-Eros-Stage3A-C-03.dgn
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 PLOT DATE = 4/27/2014

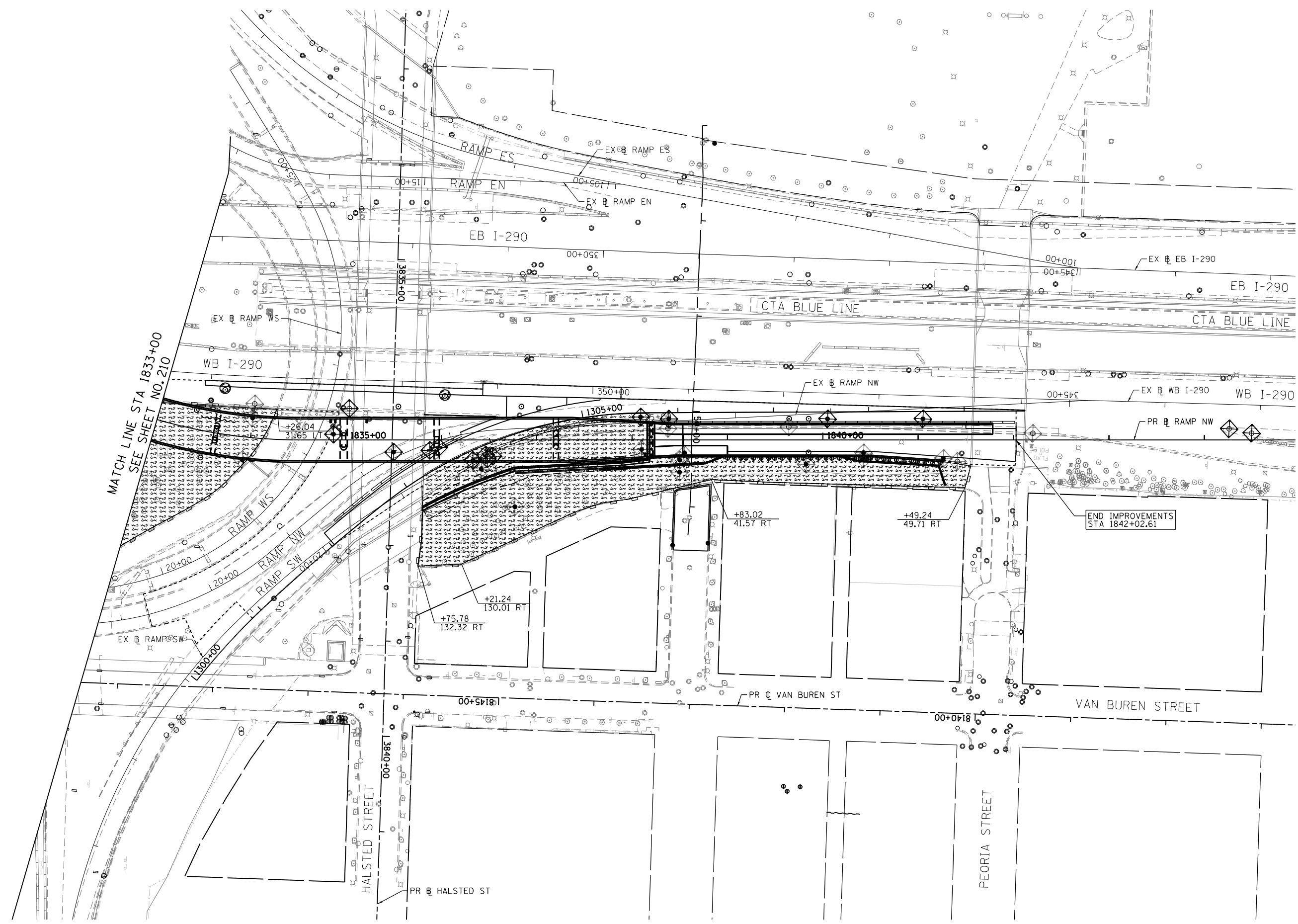
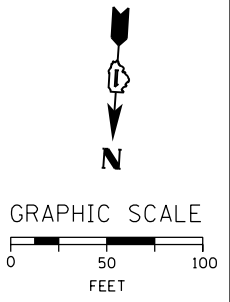
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGES 3A-C**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 1819+00 TO STA. 1833+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 210
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 1833+00
SEE SHEET NO. 210

END IMPROVEMENTS
STA 1842+02.61

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage3A-C-04.dgn



D160W28-sht-Eros-Stage3A-C-04.dgn
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PLOT SCALE = 100.0000' / 1" = 100'
PLOT DATE = 4/27/2014

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

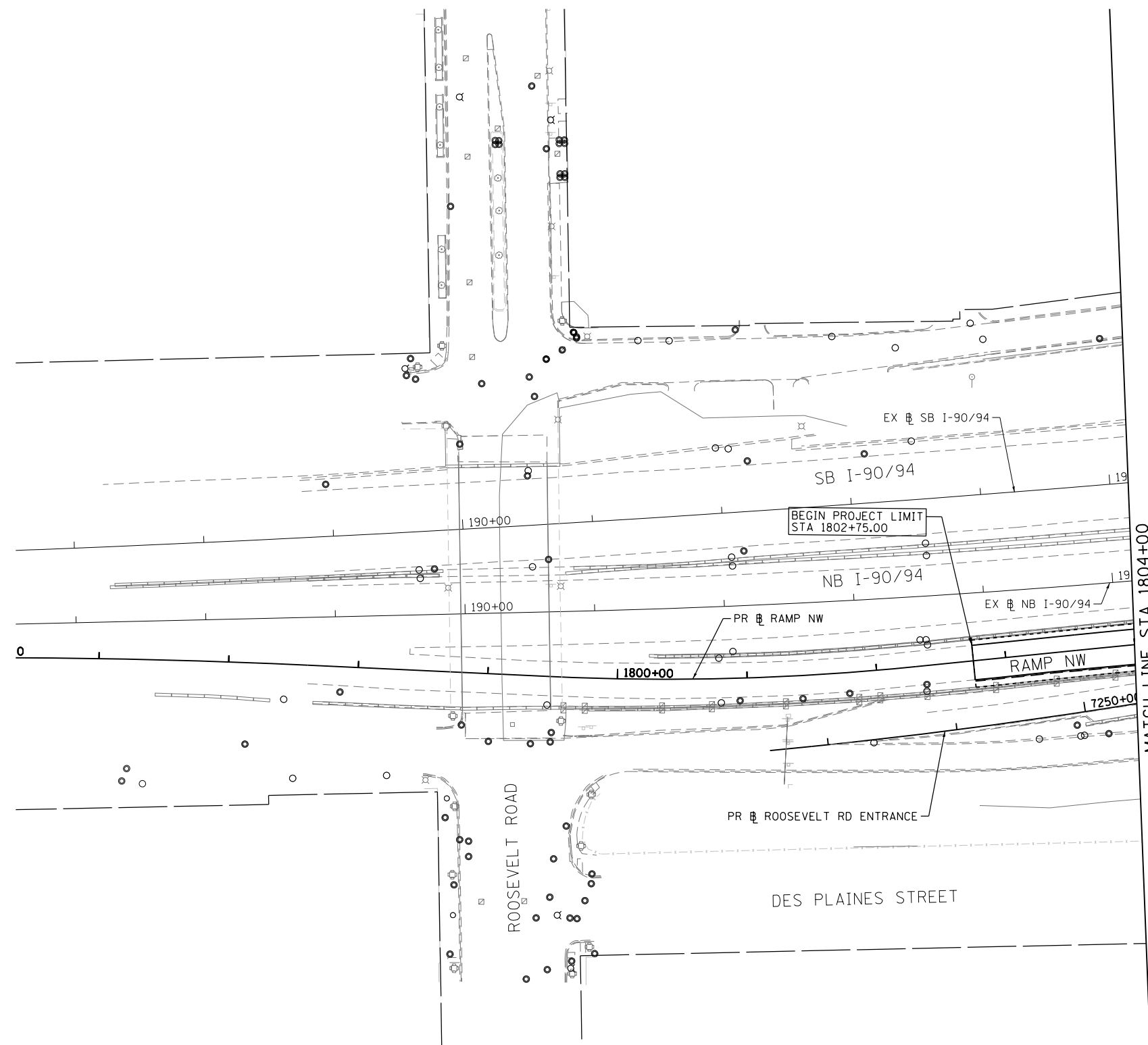
EROSION AND SEDIMENTATION CONTROL PLAN
STAGES 3A-C

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 1833+00 TO STA. 1842+02.61

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	211
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



GRAPHIC SCALE



FILE PATH = C:\Users\schmanskid\Desktop\60W28\0160W28-sht-Eros-Stage4-01.dgn



D160W28-sht-Eros-Stage4-01.dgn
 USER NAME = schmanskid
 PLOT SCALE = 100.0000' / 1" = 100.0000' / 1"
 PLOT DATE = 4/27/2014

DESIGNED - AFC
 DRAWN - AFC
 CHECKED - DBM
 DATE - 04/28/14

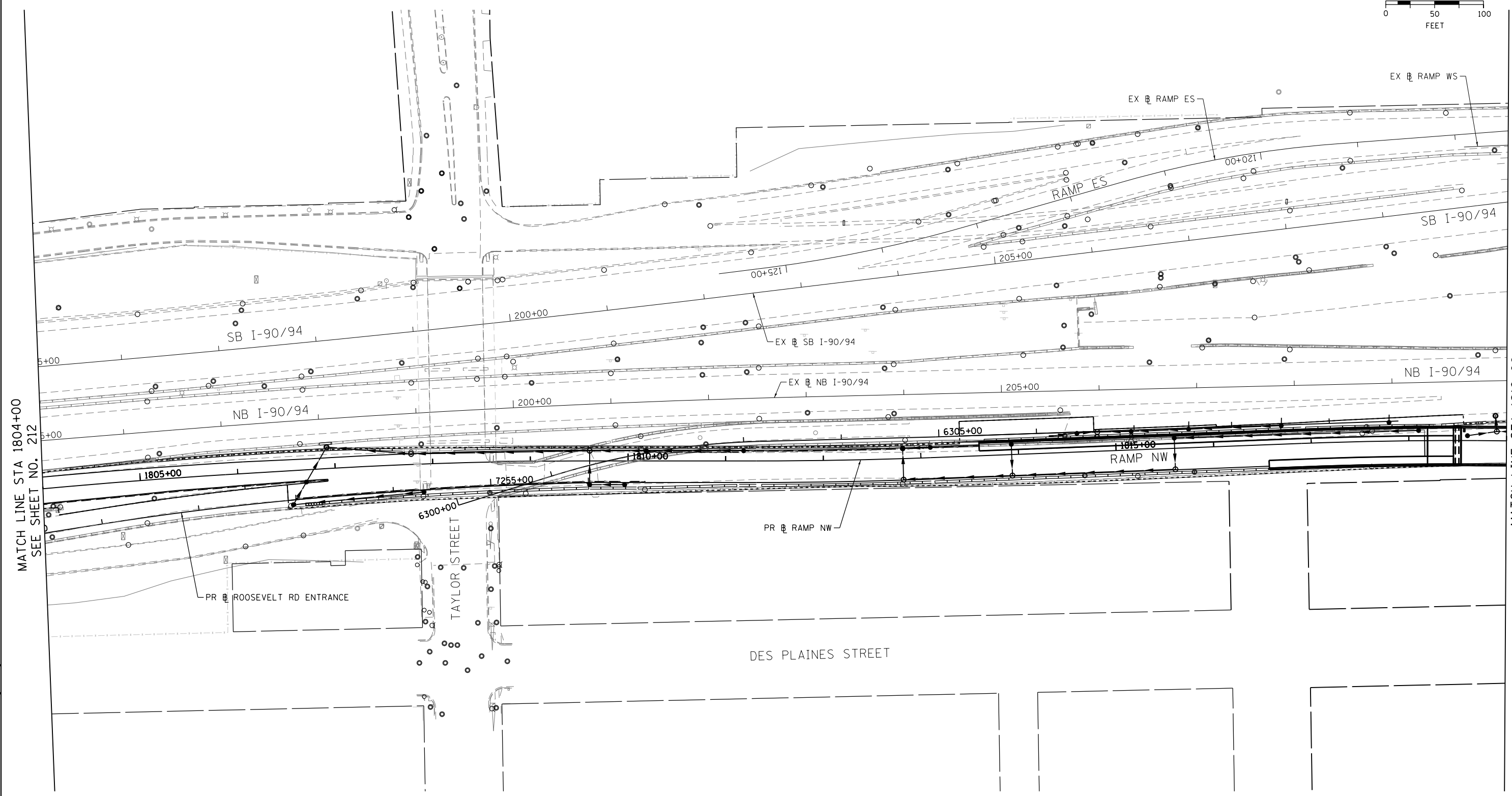
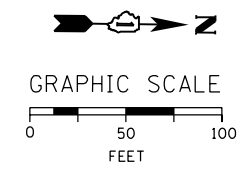
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
 STAGE 4**

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 1802+75 TO STA. 1804+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	212
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1804+00
SEE SHEET NO. 212

MATCH LINE STA 1819+00
SEE SHEET NO. 214

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Stage4-02.dgn



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 PLOT DATE = 4/27/2014

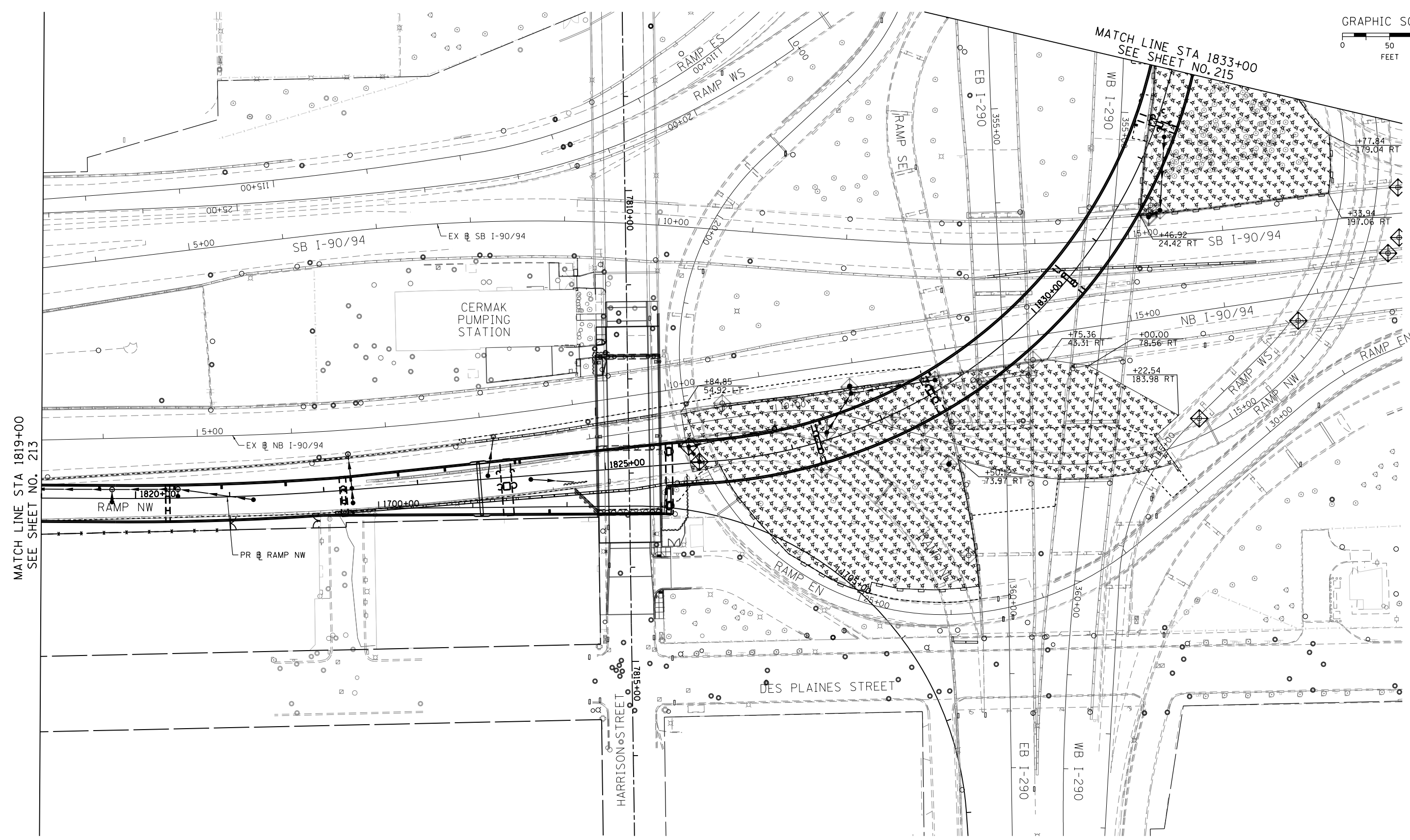
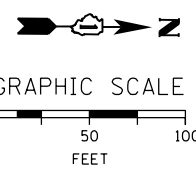
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 4**

SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 1804+00 TO STA. 1819+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	213
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1819+00
SEE SHEET NO. 213

MATCH LINE STA 1833+00
SEE SHEET NO. 215

FILE PATH = C:\Users\schmanski\OneDrive\Desktop\60W28\0160W28-sht-Eros-Stage4-03.dgn



D160W28-sht-Eros-Stage4-03.dgn
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 PLOT SCALE = 100.0000' / 1" / 1" / 1"
 PLOT DATE = 4/27/2014

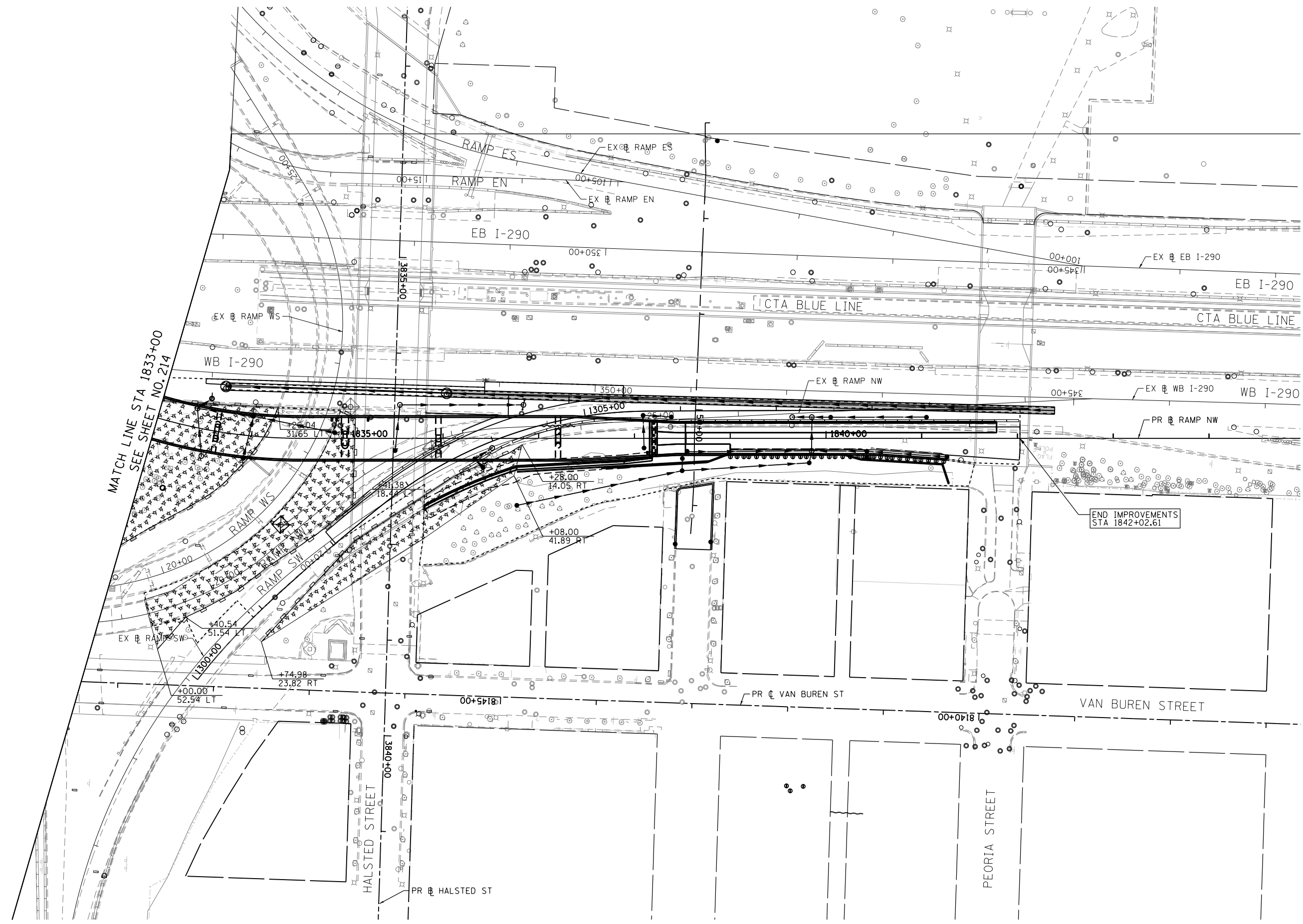
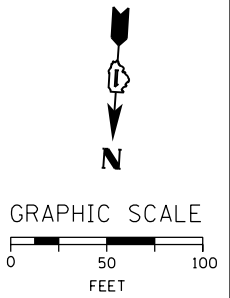
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 4**

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 1819+00 TO STA. 1833+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 214
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1833+00
SEE SHEET NO. 214

END IMPROVEMENTS
STA 1842+02.61

FILE PATH = C:\Users\schmanski\OneDrive\Desktop\60W28\0160W28-sht-Eros-Stage4-04.dgn



D160W28-sht-Eros-Stage4-04.dgn
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PLOT SCALE = 100.0000' / 1" / 100'
PLOT DATE = 4/27/2014

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

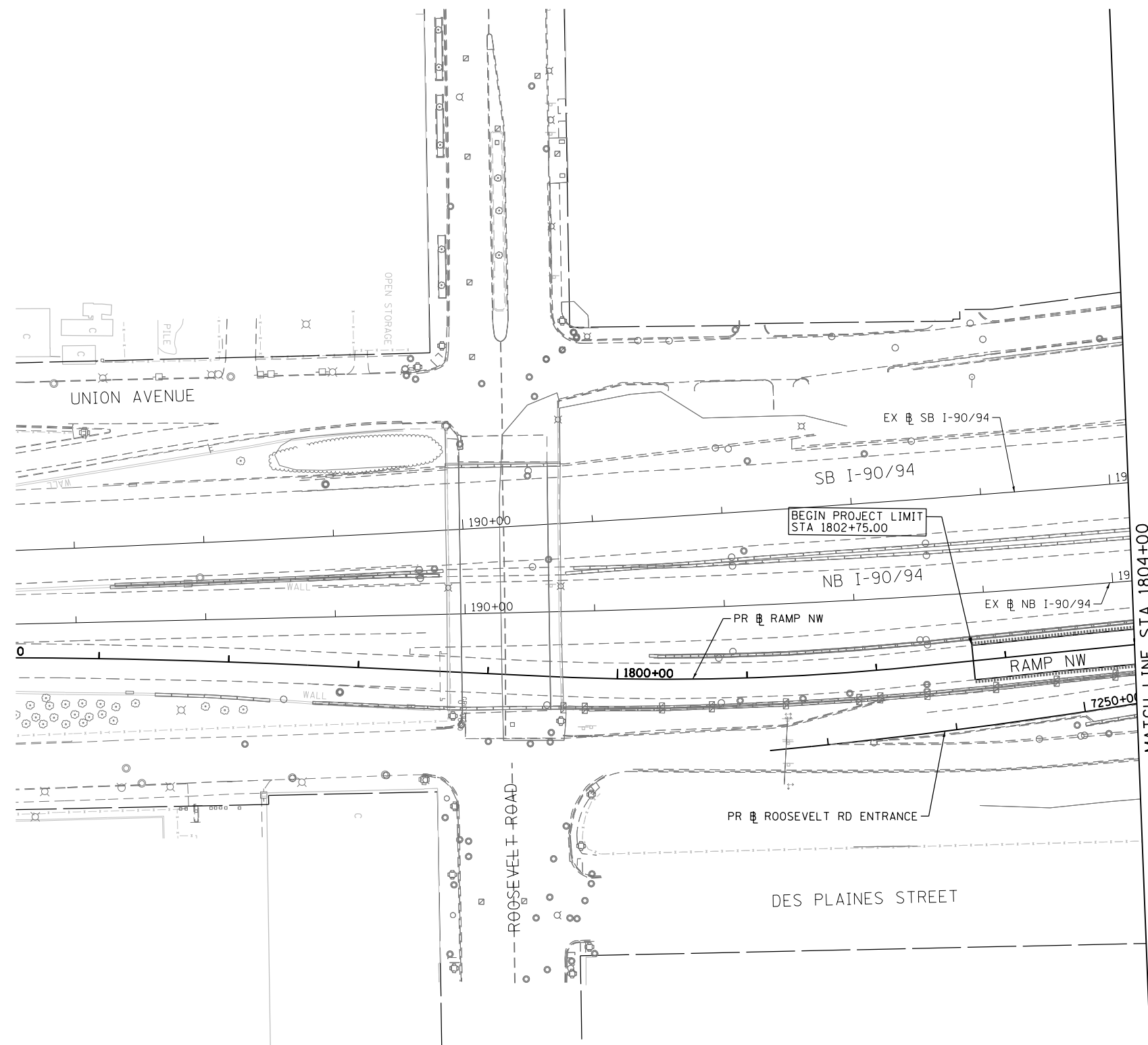
EROSION AND SEDIMENTATION CONTROL PLAN
STAGE 4

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 1833+00 TO STA. 1842+02.61

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	215
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



GRAPHIC SCALE



MATCH LINE STA 1804+00
SEE SHEET NO. 217

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Perm-01.dgn



D160W28-sht-Eros-Perm-01.dgn
USER NAME = schmanski
PLOT SCALE = 100.0000' / 1" / 1" / 1"
PLOT DATE = 4/27/2014

DESIGNED - AFC
DRAWN - AFC
CHECKED - DBM
DATE - 04/28/14

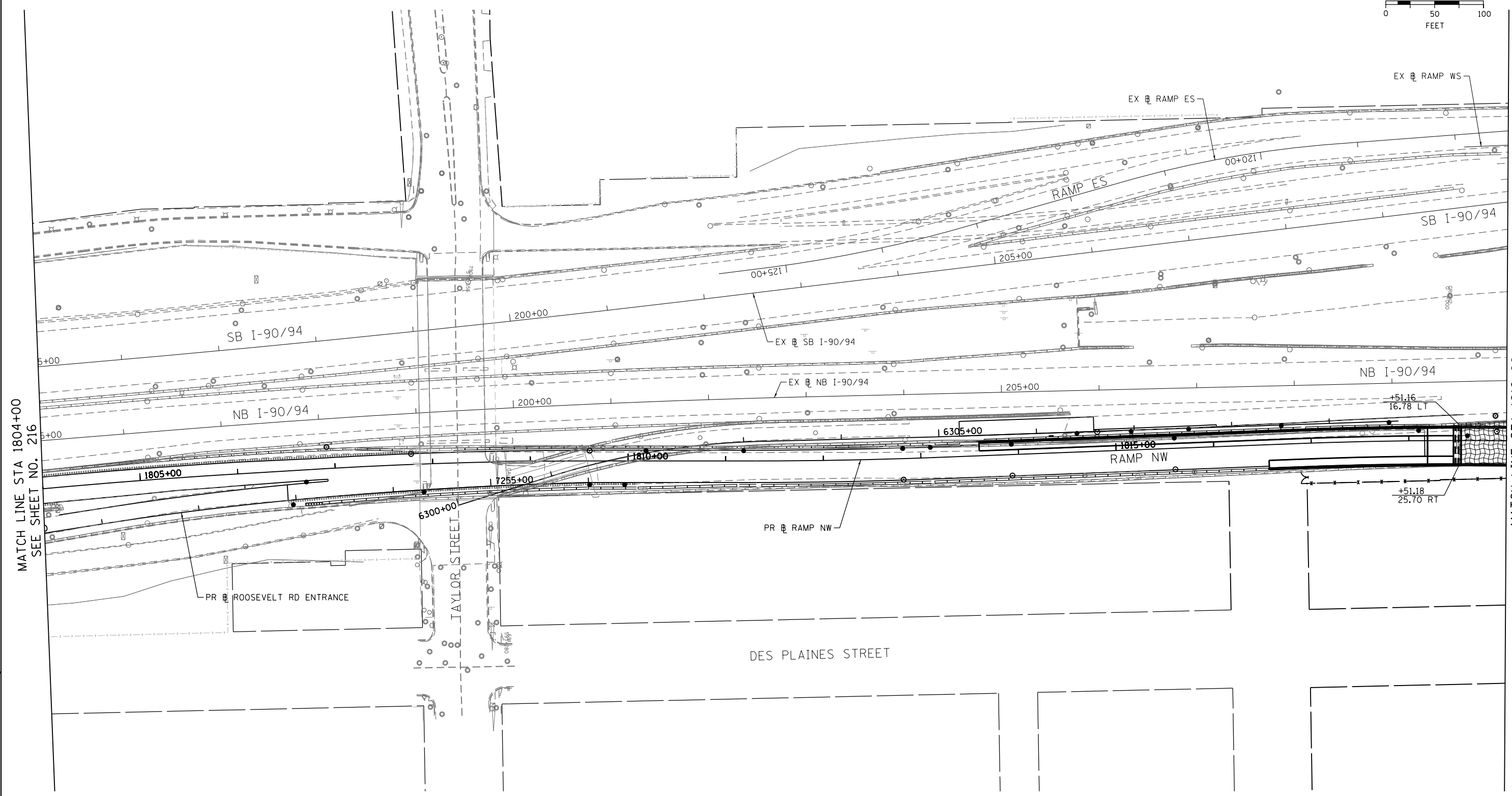
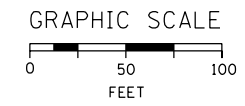
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REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1" = 50' SHEET 1 OF 4 SHEETS STA. 1802+75 TO STA. 1804+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	216
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 1804+00
SEE SHEET NO. 216

MATCH LINE STA 1819+00
SEE SHEET NO. 218

FILE PATH = C:\Users\schmanski\Desk_top\60W28\0160W28-sht-Eros-Perm-02.dgn



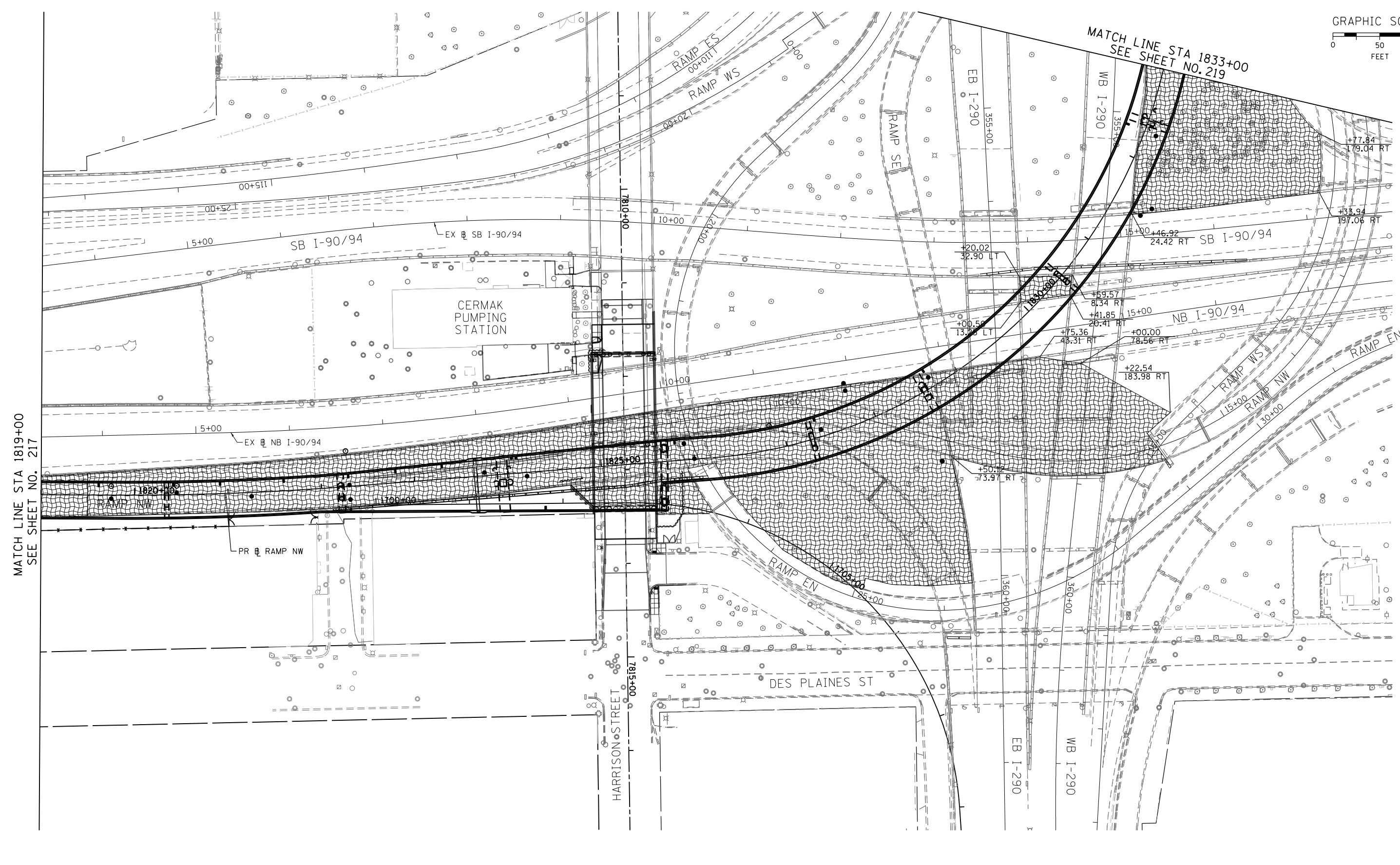
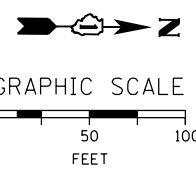
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USER NAME = schmanski
PLOT SCALE = 100.0000' / 1" = 100.0000'
PLOT DATE = 4/27/2014

DESIGNED - AFC
DRAWN - AFC
CHECKED - DBM
DATE - 04/28/14
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN
SCALE: 1" = 50' SHEET 2 OF 4 SHEETS STA. 1804+00 TO STA. 1819+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 217
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



MATCH LINE STA 1819+00
SEE SHEET NO. 217

MATCH LINE STA 1833+00
SEE SHEET NO. 219

CERMAK
PUMPING
STATION

DES PLAINES ST

HARRISON STREET



D160W28-sht-Eros-Perm-03.dgn
USER NAME = schmanskid
PLOT SCALE = 100.0000' / 1" =
PLOT DATE = 4/27/2014

DESIGNED - AFC	REVISED -
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CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

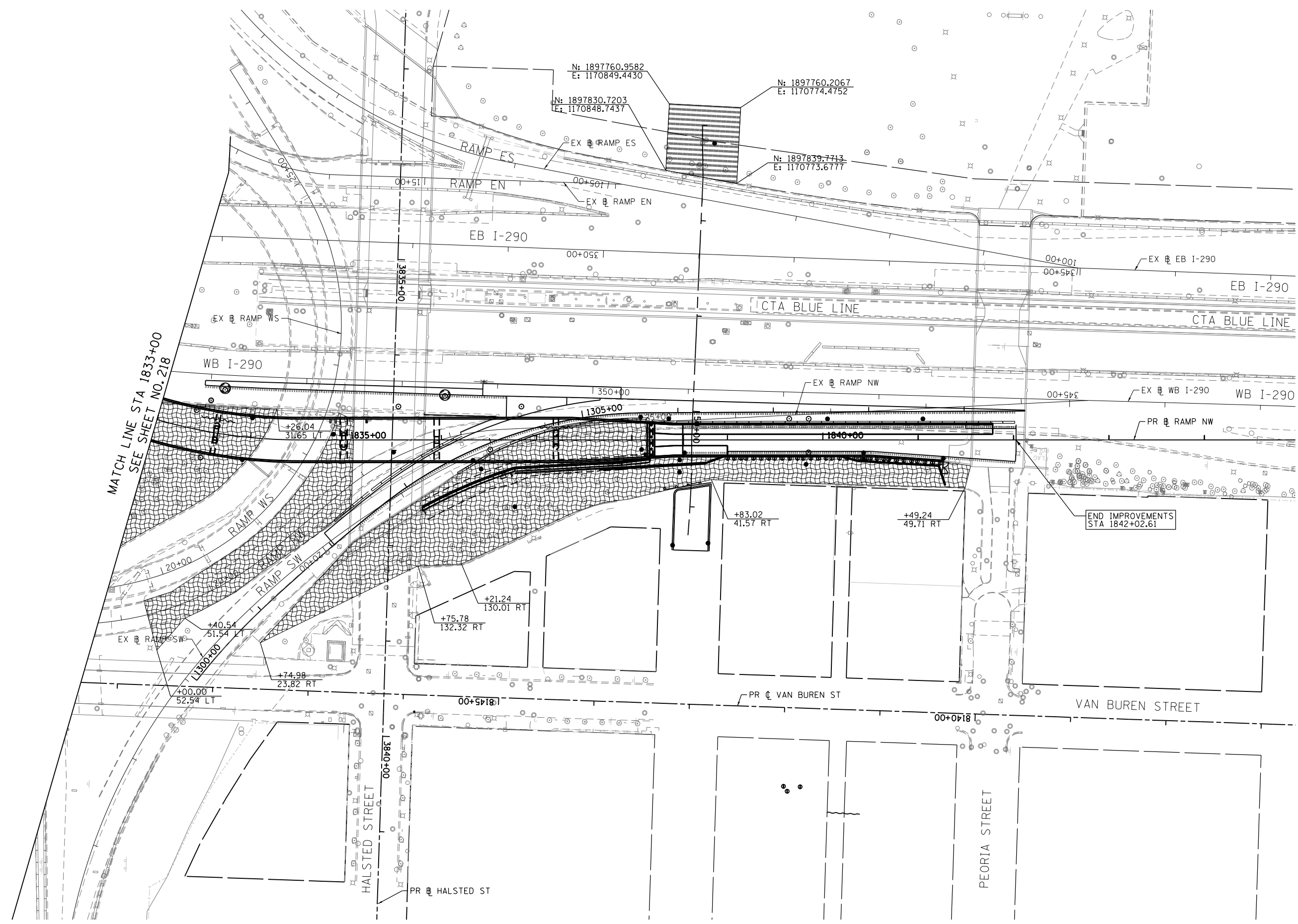
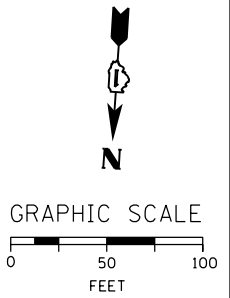
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1" = 50' SHEET 3 OF 4 SHEETS STA. 1819+00 TO STA. 1833+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 218
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

FILE PATH = C:\Users\schmanskid\Desktop\60W28\0160W28-sht-Eros-Perm-03.dgn



MATCH LINE STA 1833+00
SEE SHEET NO. 218

END IMPROVEMENTS
STA 1842+02.61

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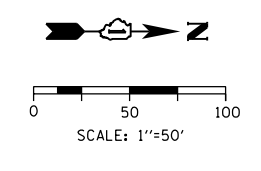
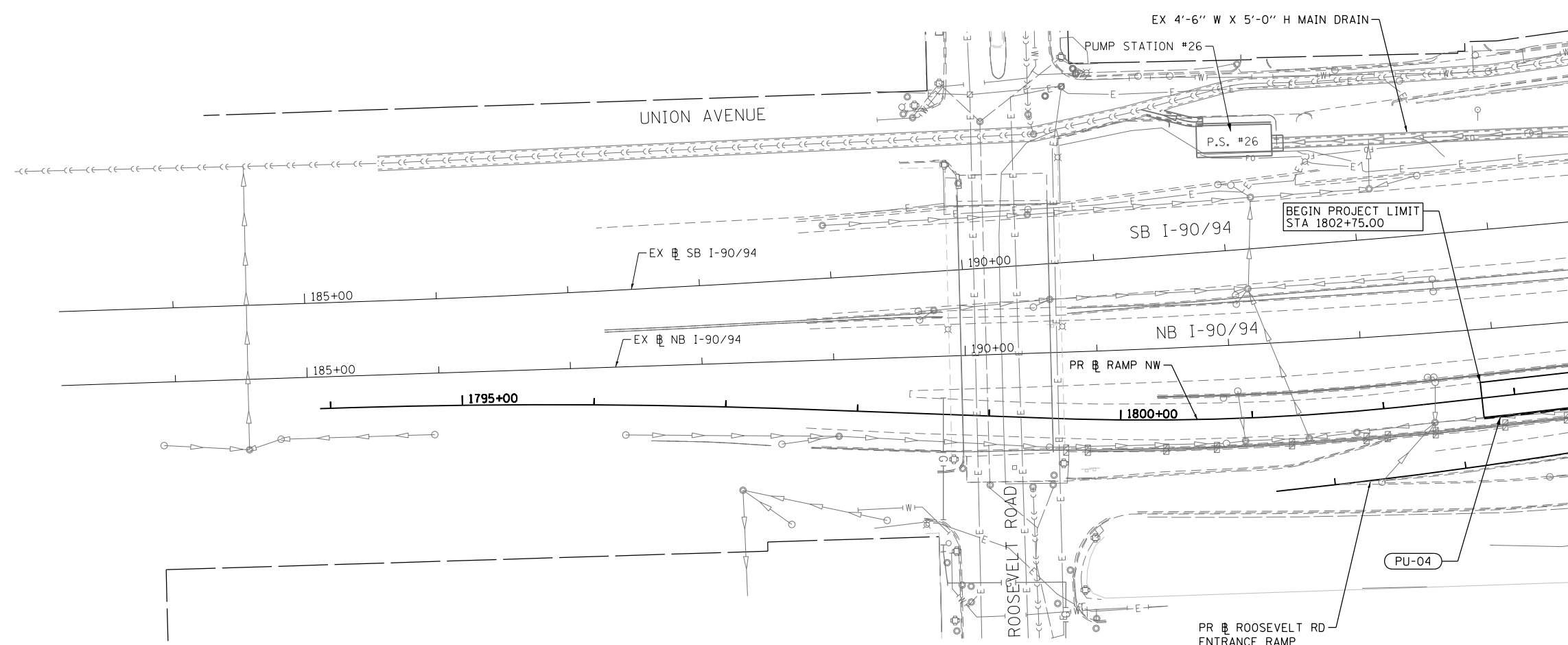
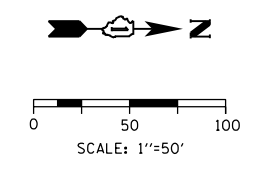
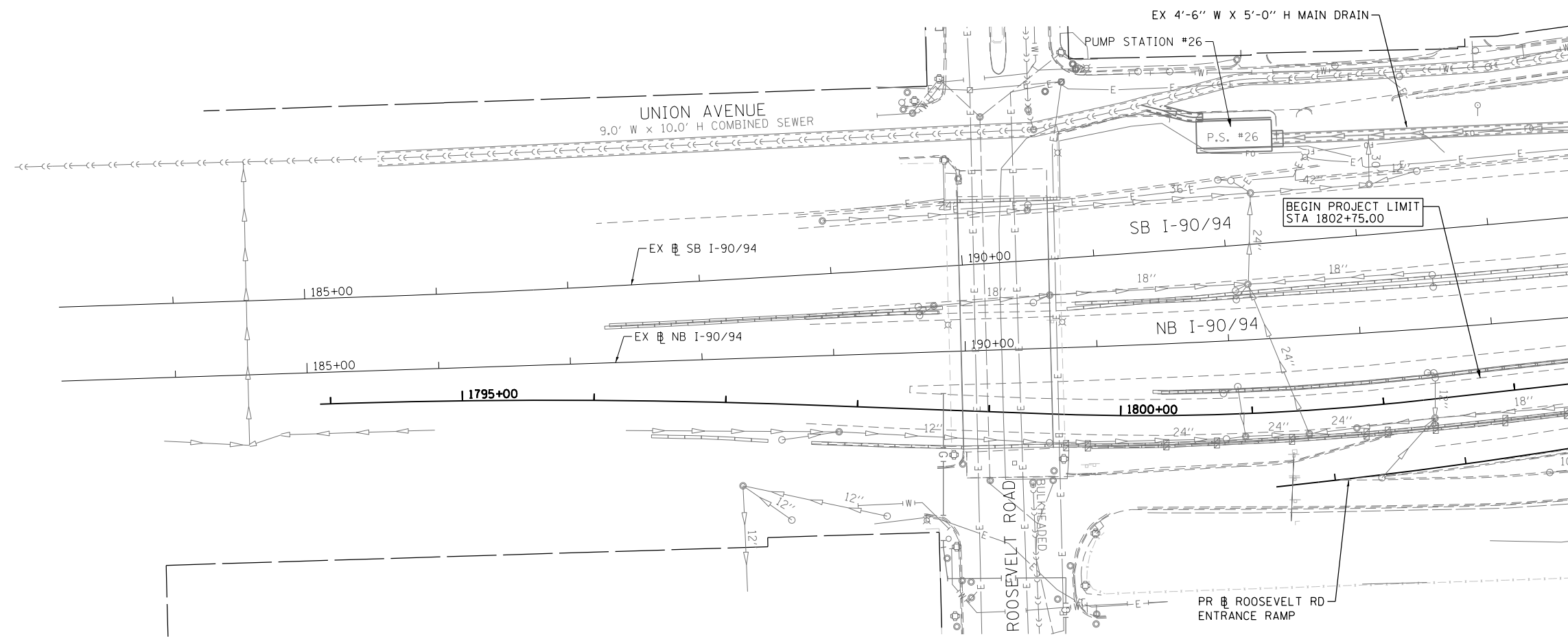
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PERMANENT EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: 1" = 50' SHEET 4 OF 4 SHEETS STA. 1833+00 TO STA. 1842+02.61

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 219
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



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 PLOT SCALE = 100.0000' / 1" / 1" / 1"
 PLOT DATE = 4/28/2014

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 CHECKED - EEE
 DATE - 4/28/2014

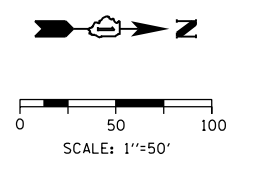
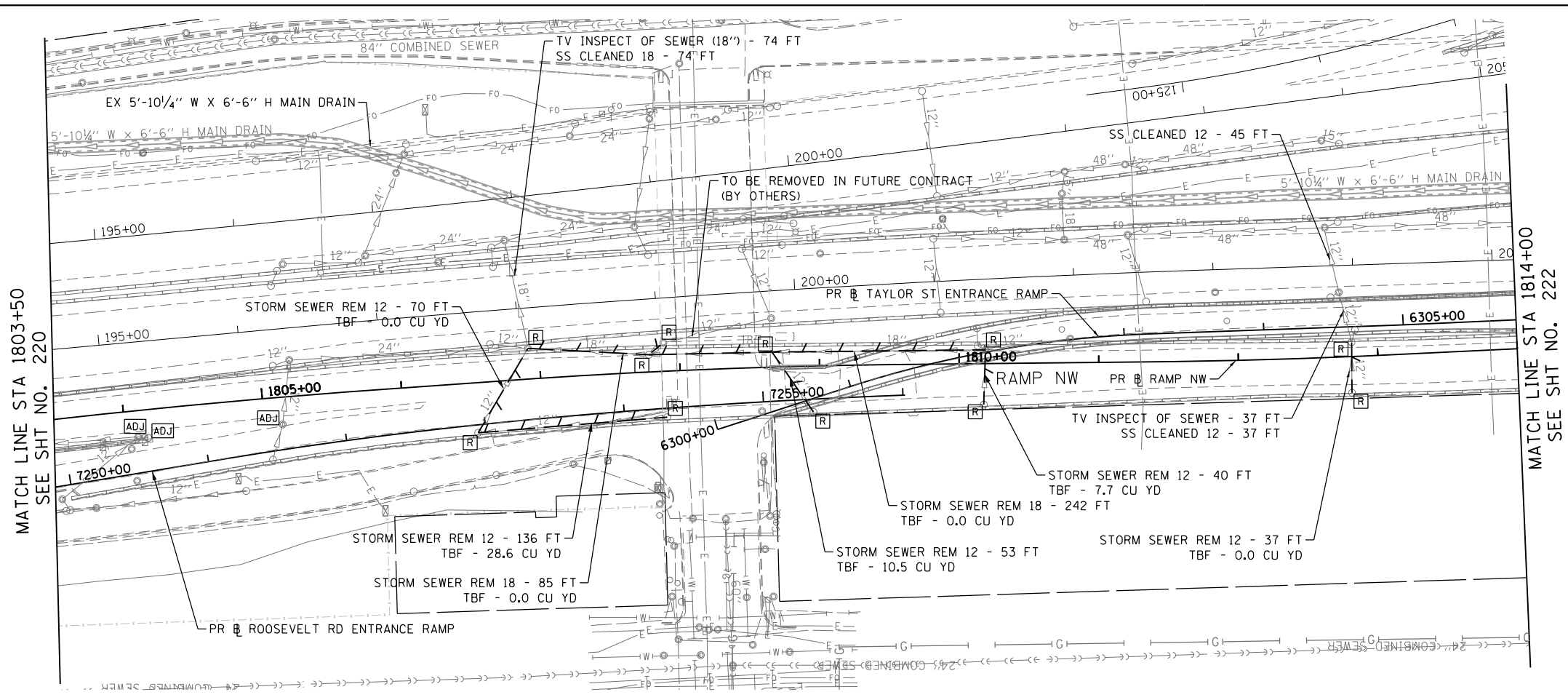
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

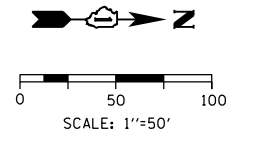
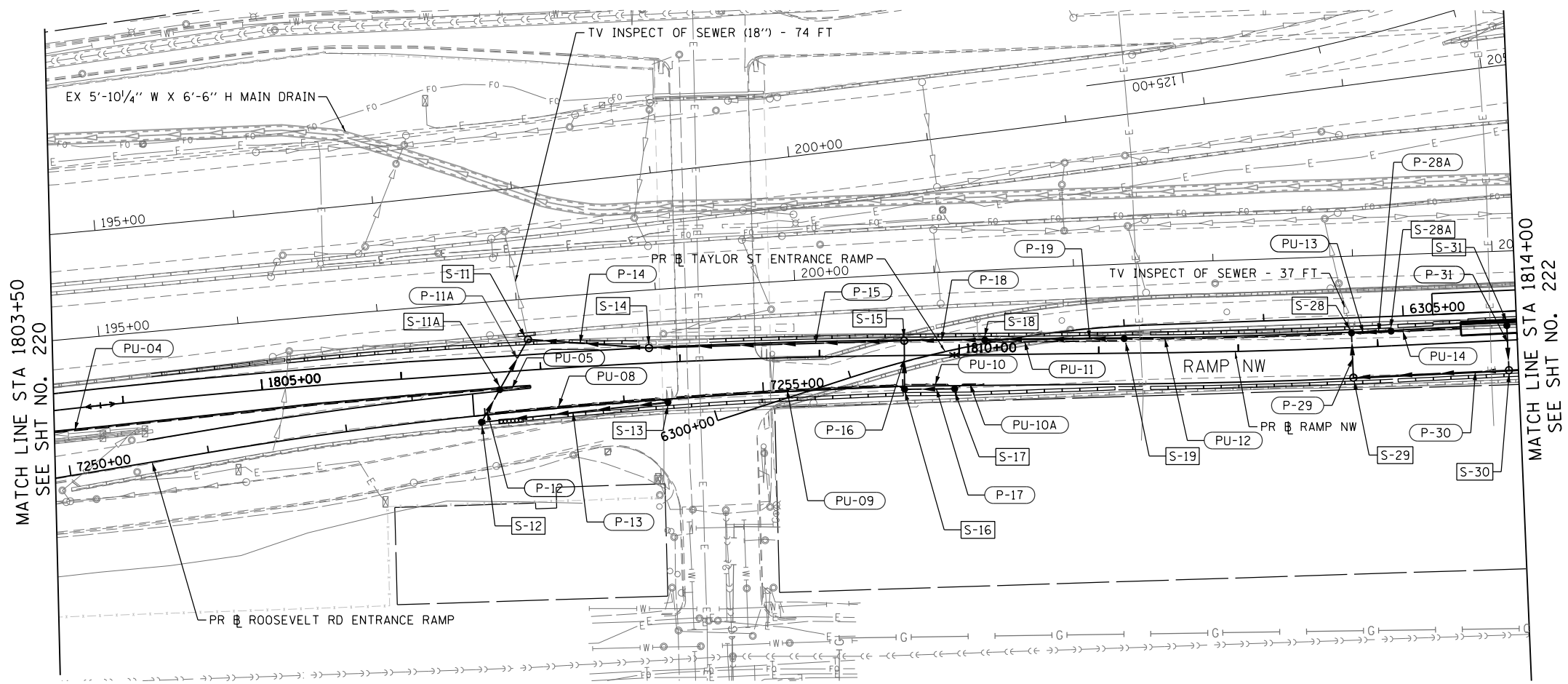
**DRAINAGE AND UTILITY PLAN
 RAMP NW**

SCALE: 1" = 50' SHEET 1 OF 6 SHEETS STA. 1802+75 TO STA. 1803+50

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 220
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



EXISTING



PROPOSED

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D160W28-sht-Drain-02.dgn
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 PLOT SCALE = 100.0000' / 1" = 100'
 PLOT DATE = 4/28/2014

DESIGNED -	DMS/ AFC	REVISED -	
DRAWN -	DMS/ AFC	REVISED -	
CHECKED -	E E Y	REVISED -	
DATE -	4/28/2014	REVISED -	

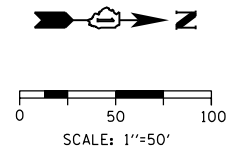
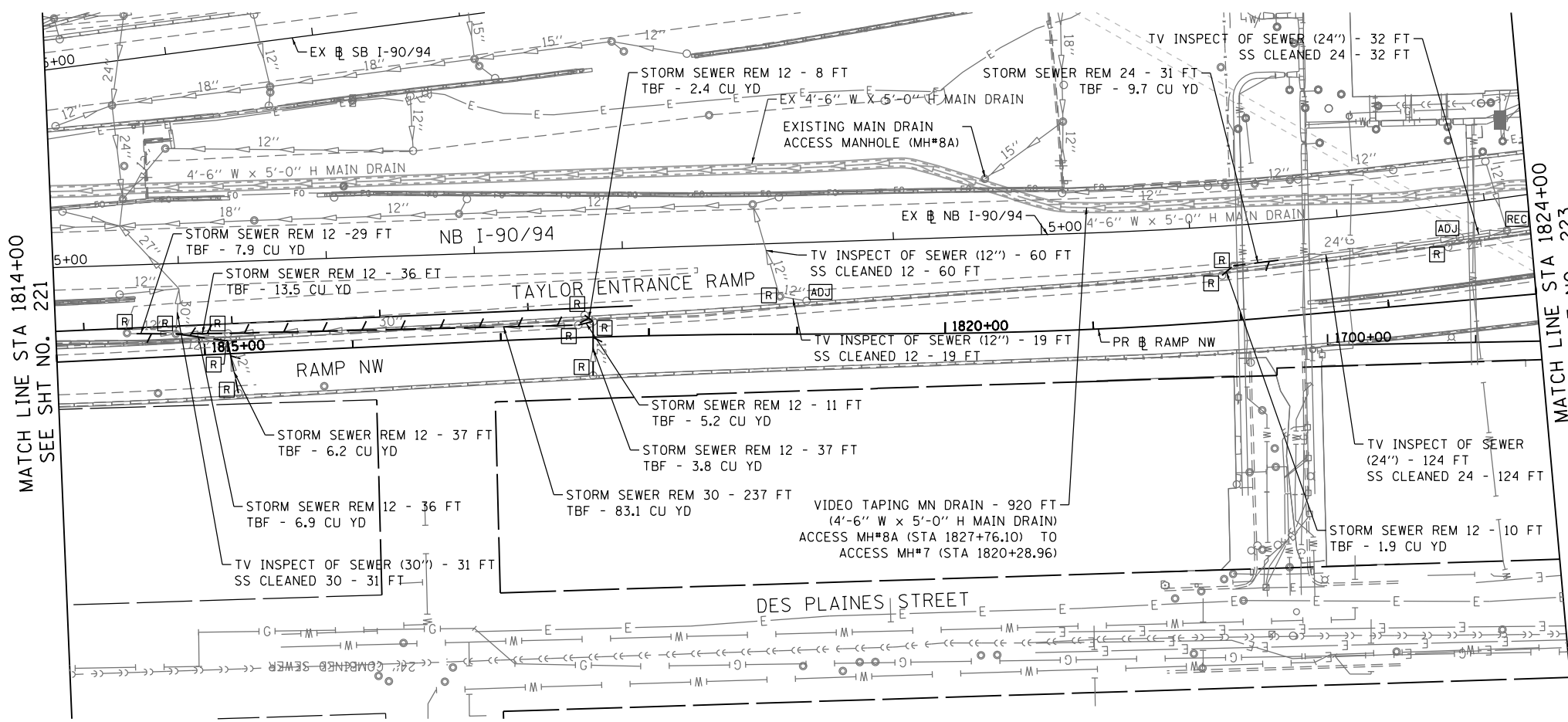
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN
 RAMP NW**

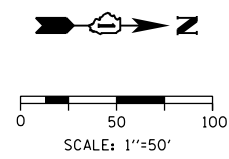
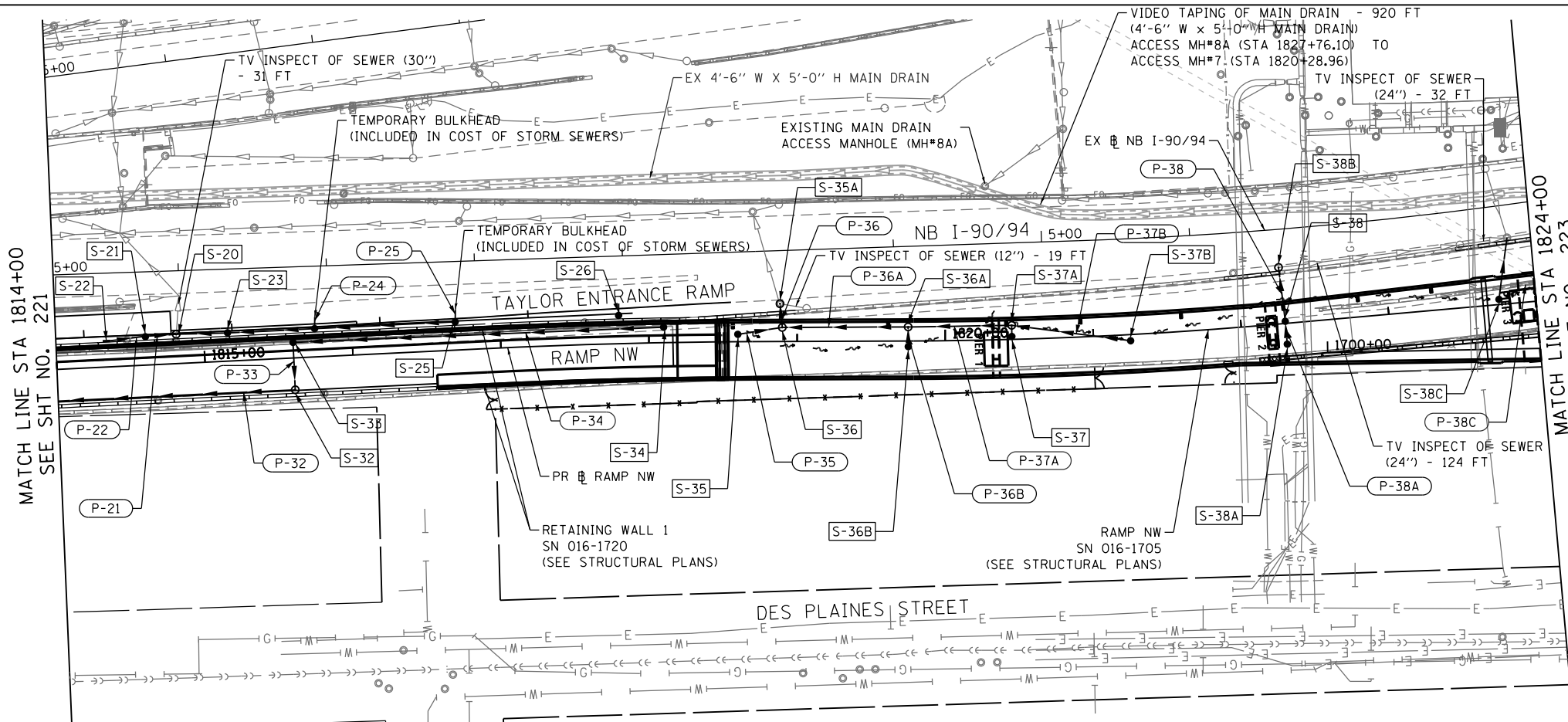
SCALE: 1" = 50' SHEET 2 OF 6 SHEETS STA. 1803+50 TO STA. 1814+00

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	221
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

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EXISTING



- NOTES**
1. SEE RAMP NW (SN 016-1705) STRUCTURAL PLANS FOR DRAINAGE SCUPPER LOCATIONS.
 2. SEE GRADING PLAN FOR LOW POINTS UNDER RAMP NW FLYOVER.

PROPOSED



D160W28-sht-Drain-03
 USER NAME = chiue
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

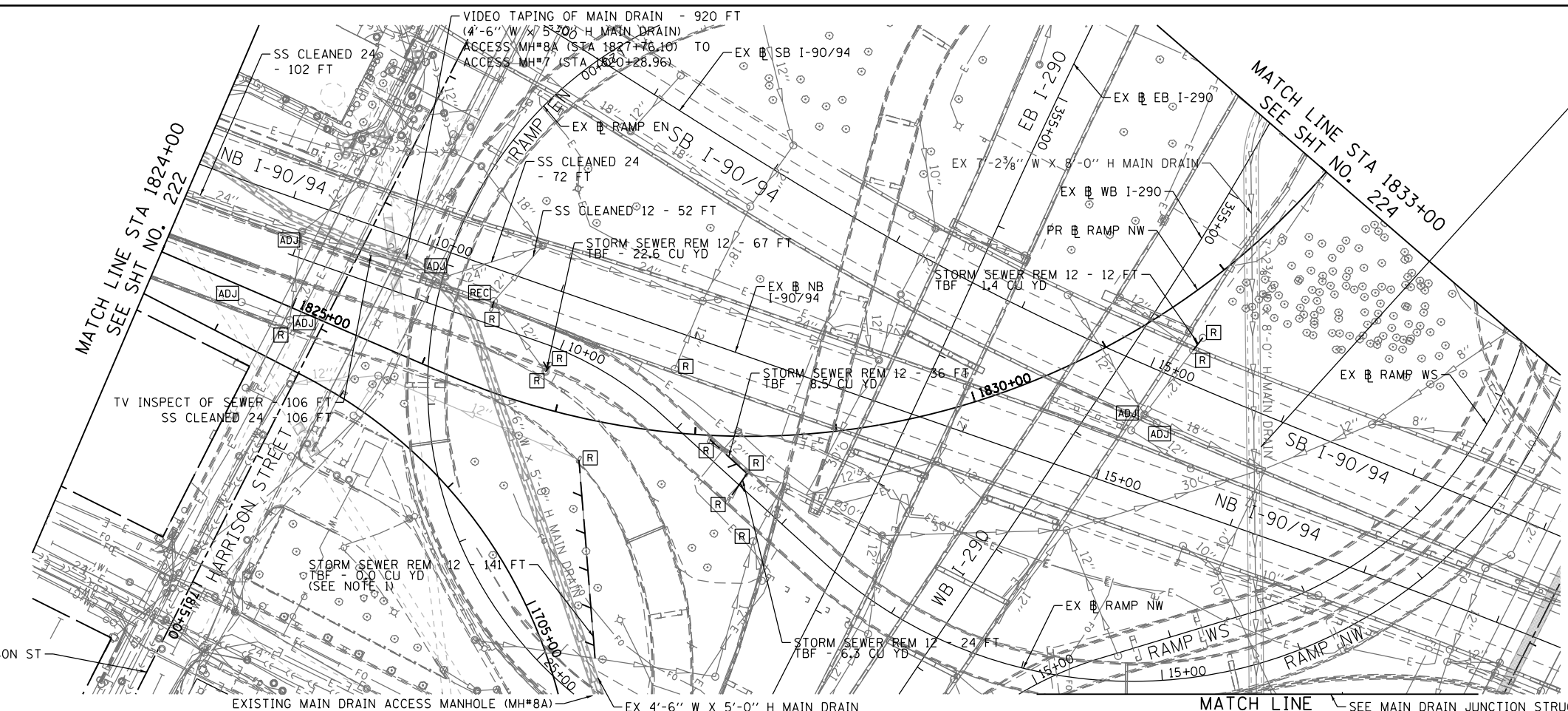
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DATE -	4/28/2014	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

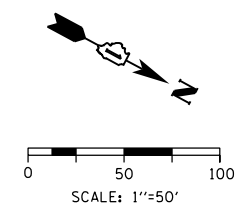
**DRAINAGE AND UTILITY PLAN
 RAMP NW**

SCALE: 1" = 50' SHEET 3 OF 6 SHEETS STA. 1814+00 TO STA. 1824+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	222
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

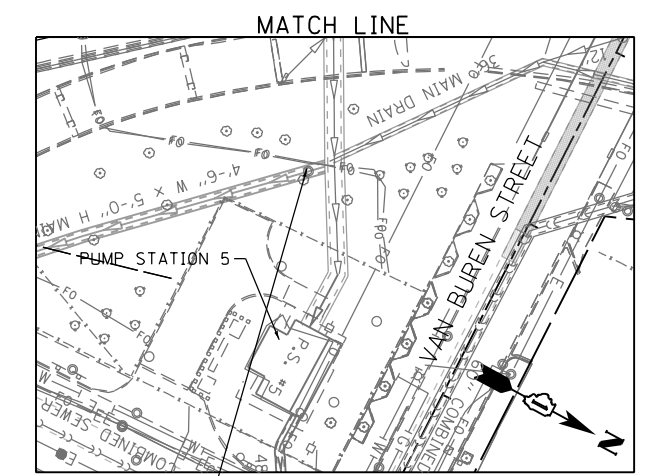


VIDEO TAPING OF MAIN DRAIN - 2,740 FT
 MAIN DRAIN CLEANING - 2,740 FT
 (EX 7'-2 3/8" W X 8'-0" H MAIN DRAIN)
 JUNCTION STRUCTURE ACCESS MH TO
 ACCESS MH#2 (STA 332+45.38) - 2,740 FT

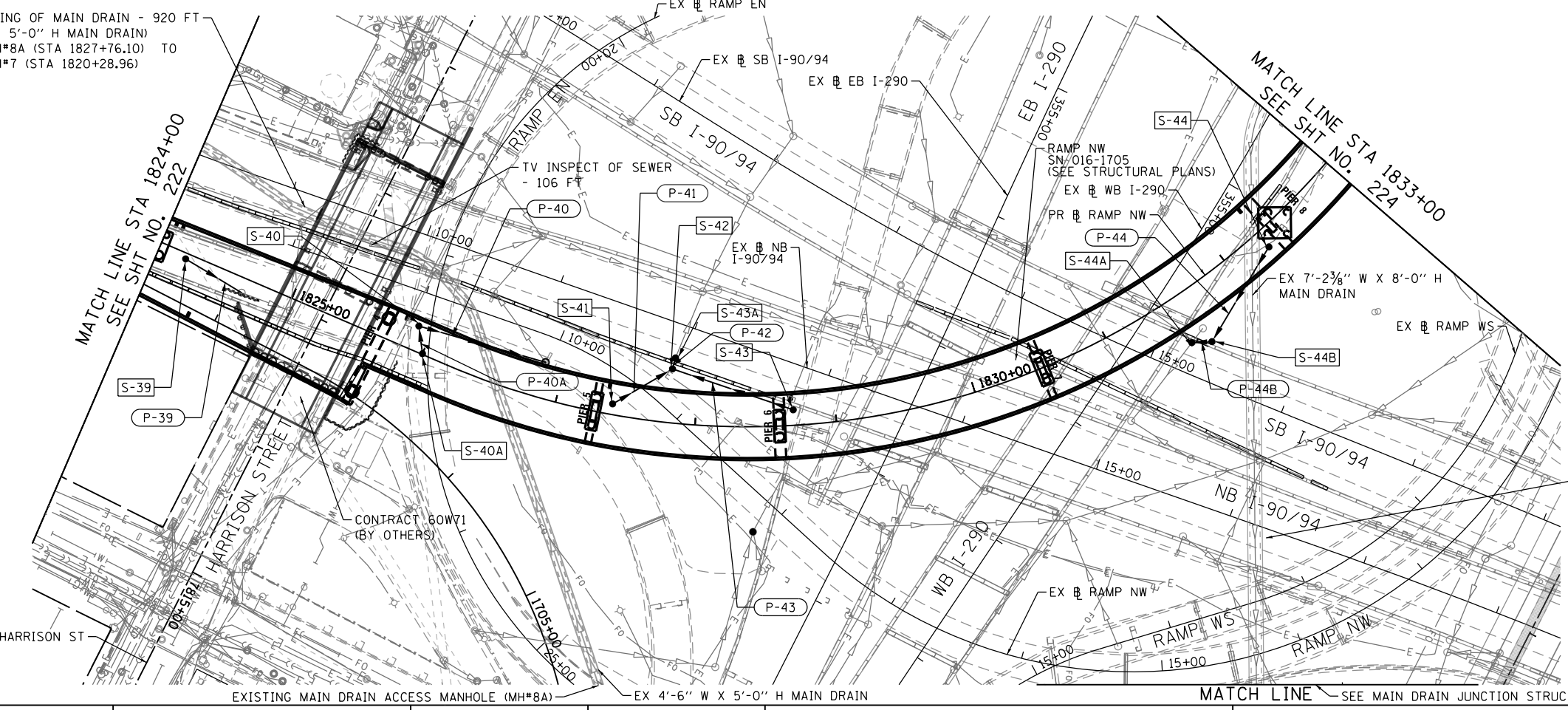


- NOTES**
- THE DRAINAGE STRUCTURES AND PIPES ALONG RAMP NE SHALL BE COORDINATED WITH THE HARRISON STREET BRIDGE (EAST) CONTRACTOR (CONTRACT 60W71).

**MAIN DRAIN
 JUNCTION STRUCTURE DETAIL**

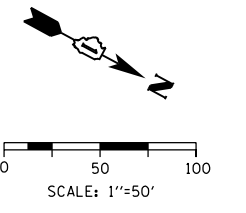


JUNCTION STRUCTURE ACCESS MANHOLE
EXISTING



- NOTES**
- SEE RAMP NW (SN 016-1705) STRUCTURAL PLANS FOR DRAINAGE SCUPPER LOCATIONS.
 - SEE GRADING PLAN FOR LOW POINTS UNDER RAMP NW FLYOVER.

VIDEO TAPING OF MAIN DRAIN - 2,740 FT
 (EX 7'-2 3/8" W X 8'-0" H MAIN DRAIN)
 JUNCTION STRUCTURE ACCESS MH TO
 ACCESS MH#2 (STA 332+45.38)



PROPOSED

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D160W28-sht-Drain-04
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 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

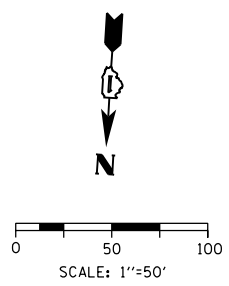
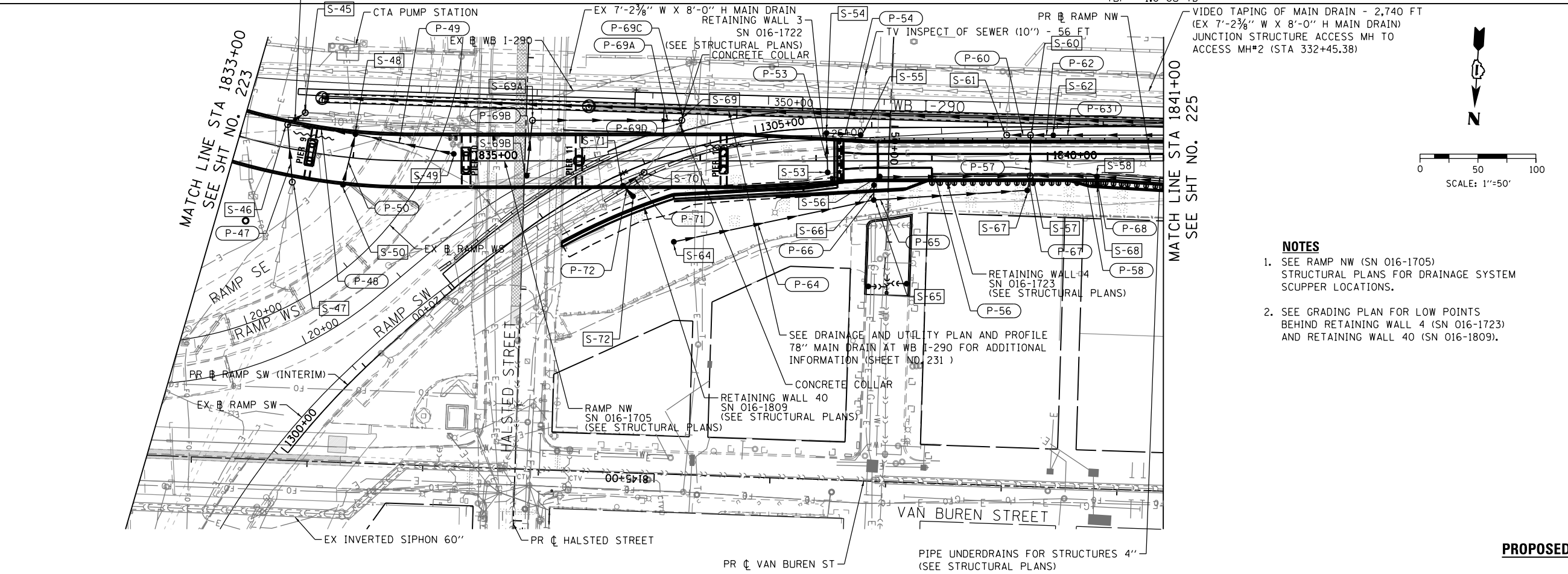
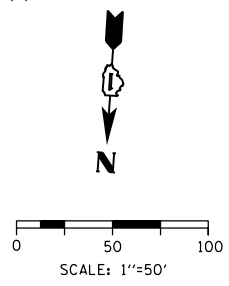
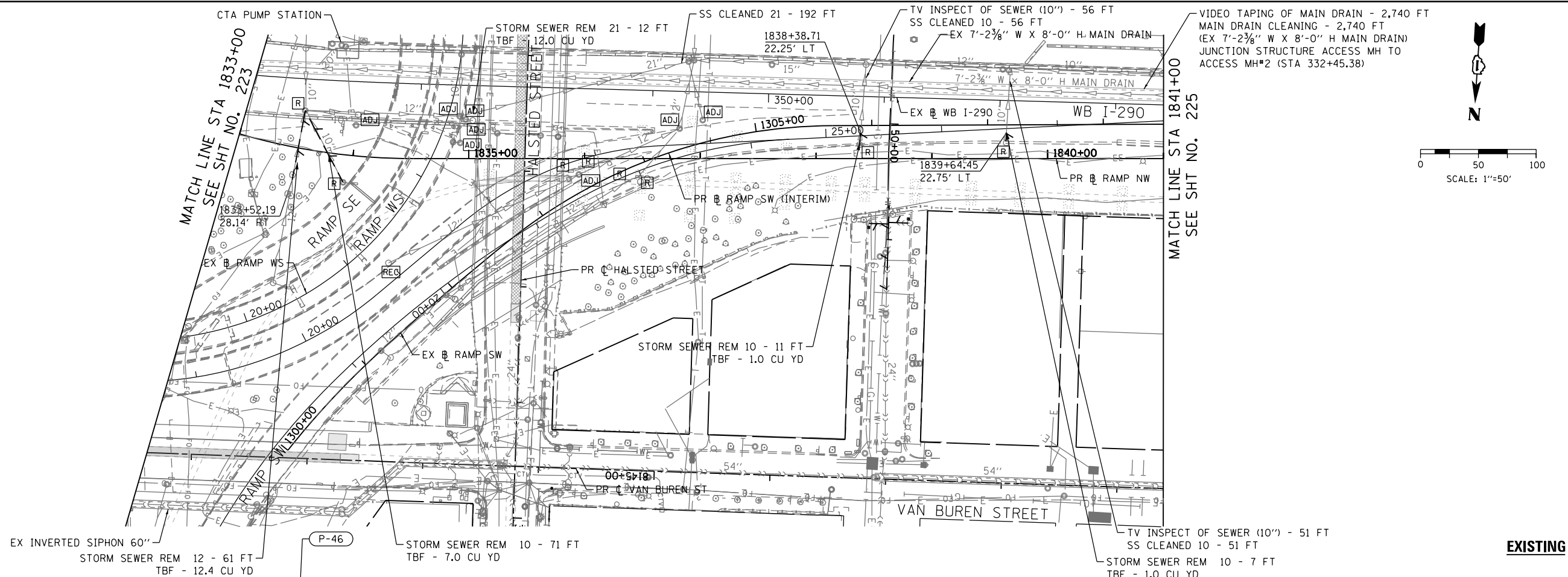
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CHECKED -	EY	REVISED -	
DATE -	4/28/2014	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN
 RAMP NW**

SCALE: 1" = 50' SHEET 4 OF 6 SHEETS STA. 1824+00 TO STA. 1833+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	223
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



- NOTES**
- SEE RAMP NW (SN 016-1705) STRUCTURAL PLANS FOR DRAINAGE SYSTEM SCUPPER LOCATIONS.
 - SEE GRADING PLAN FOR LOW POINTS BEHIND RETAINING WALL 4 (SN 016-1723) AND RETAINING WALL 40 (SN 016-1809).

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 USER NAME = chiuw
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

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DRAWN -	DMS/ AFC	REVISED -	
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DATE -	4/28/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

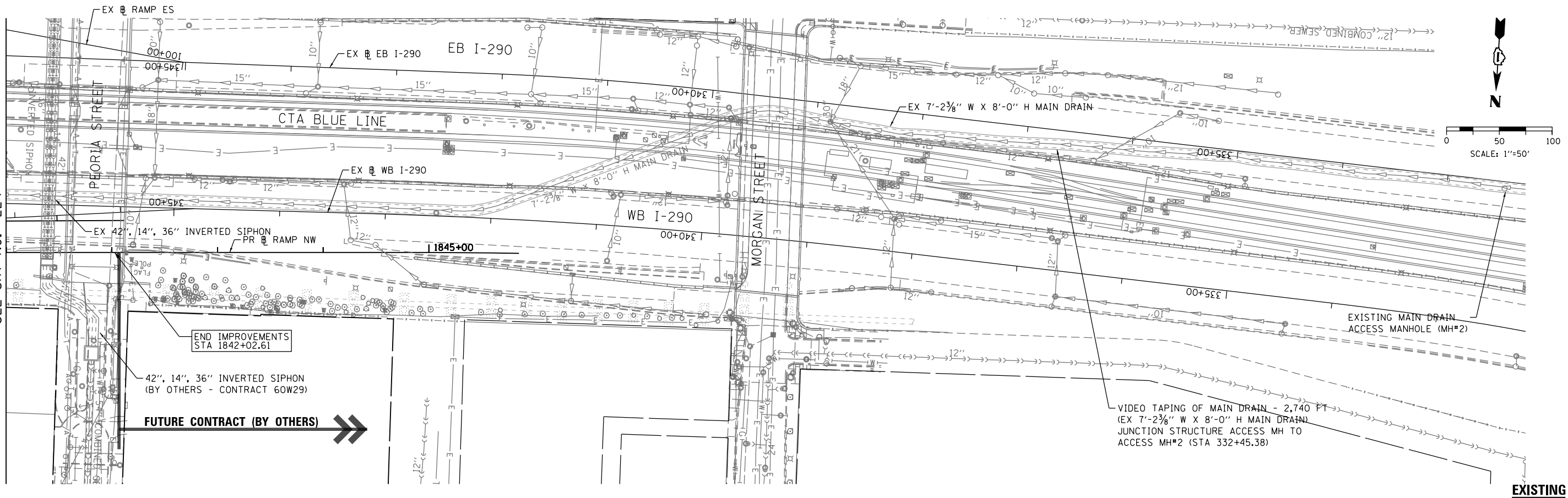
DRAINAGE AND UTILITY PLAN
RAMP NW

SCALE: 1" = 50' SHEET 5 OF 6 SHEETS STA. 1833+00 TO STA. 1841+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	224
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

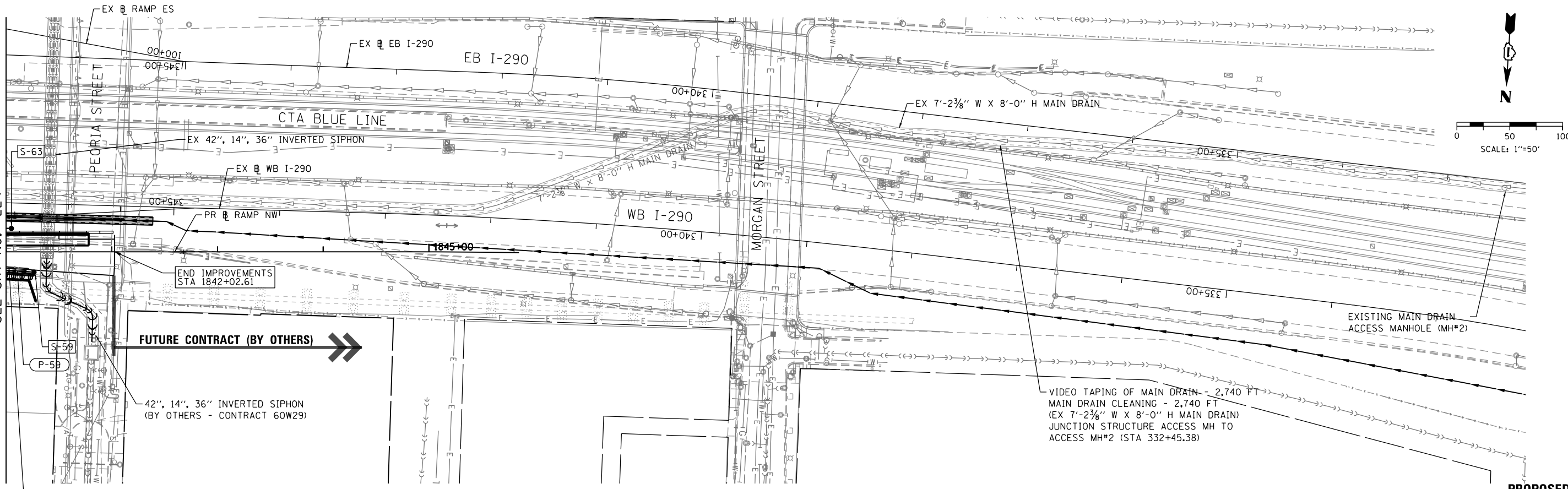
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MATCH LINE STA 1841+00
SEE SHT NO. 224



EXISTING

MATCH LINE STA 1841+00
SEE SHT NO. 224



PROPOSED



D160W28-sht-Drain-06
USER NAME = chiuw
PLOT SCALE = 100.0000' / in.
PLOT DATE = 4/28/2014

DESIGNED -	DMS/ AFC	REVISED -	
DRAWN -	DMS/ AFC	REVISED -	
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DATE -	4/28/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

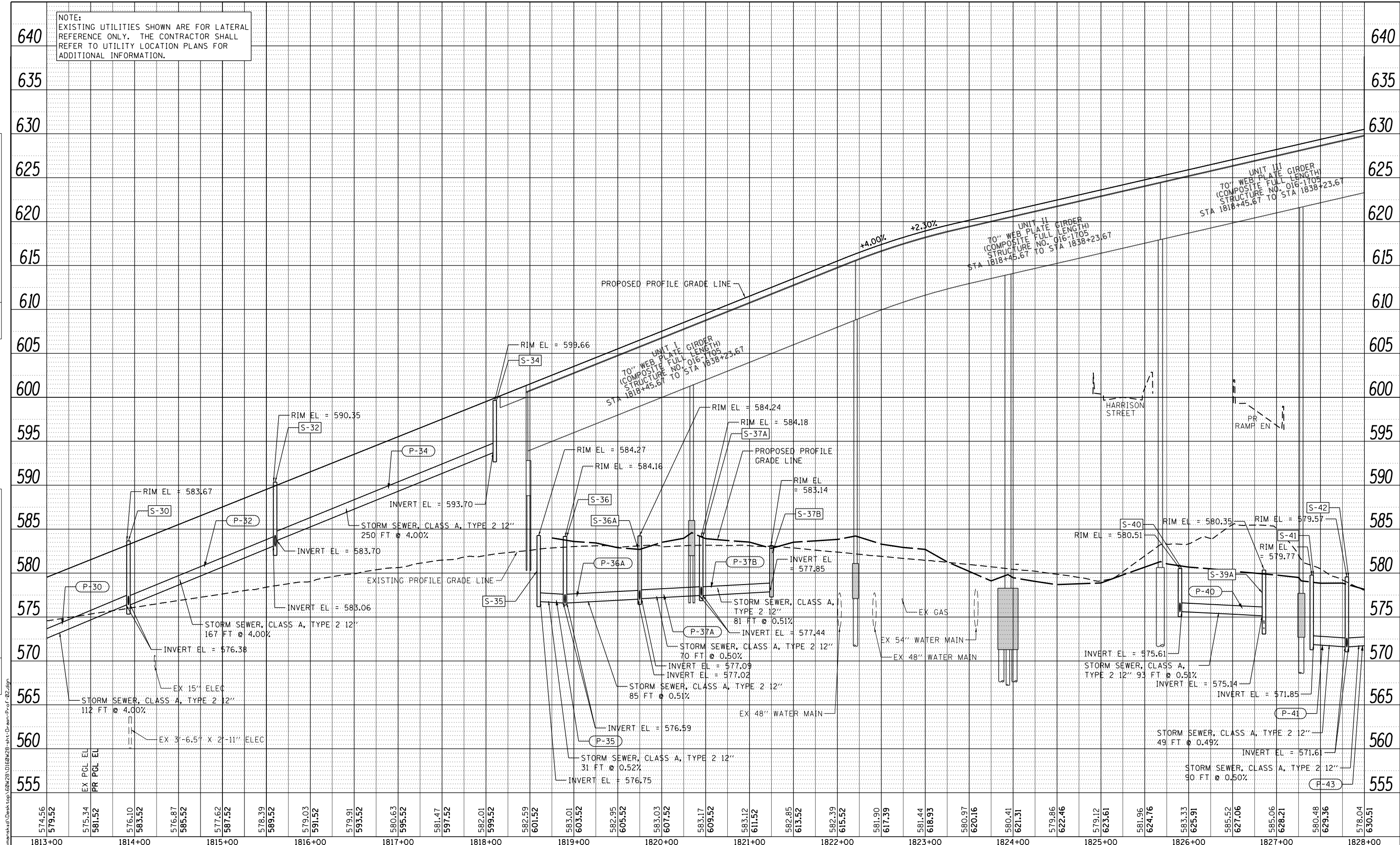
DRAINAGE AND UTILITY PLAN
RAMP NW

SCALE: 1" = 50' SHEET 6 OF 6 SHEETS STA. 1841+00 TO STA. 1846+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	225
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

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

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



NOTE:
EXISTING UTILITIES SHOWN ARE FOR LATERAL
REFERENCE ONLY. THE CONTRACTOR SHALL
REFER TO UTILITY LOCATION PLANS FOR
ADDITIONAL INFORMATION.

1813+00 1814+00 1815+00 1816+00 1817+00 1818+00 1819+00 1820+00 1821+00 1822+00 1823+00 1824+00 1825+00 1826+00 1827+00 1828+00

RAMP NW



D160W28-sht-Drain-Prof-02.dgn
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PLOT SCALE = 100.0000' / 1"
PLOT DATE = 4/27/2014

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DATE -	4/28/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PROFILE
RAMP NW

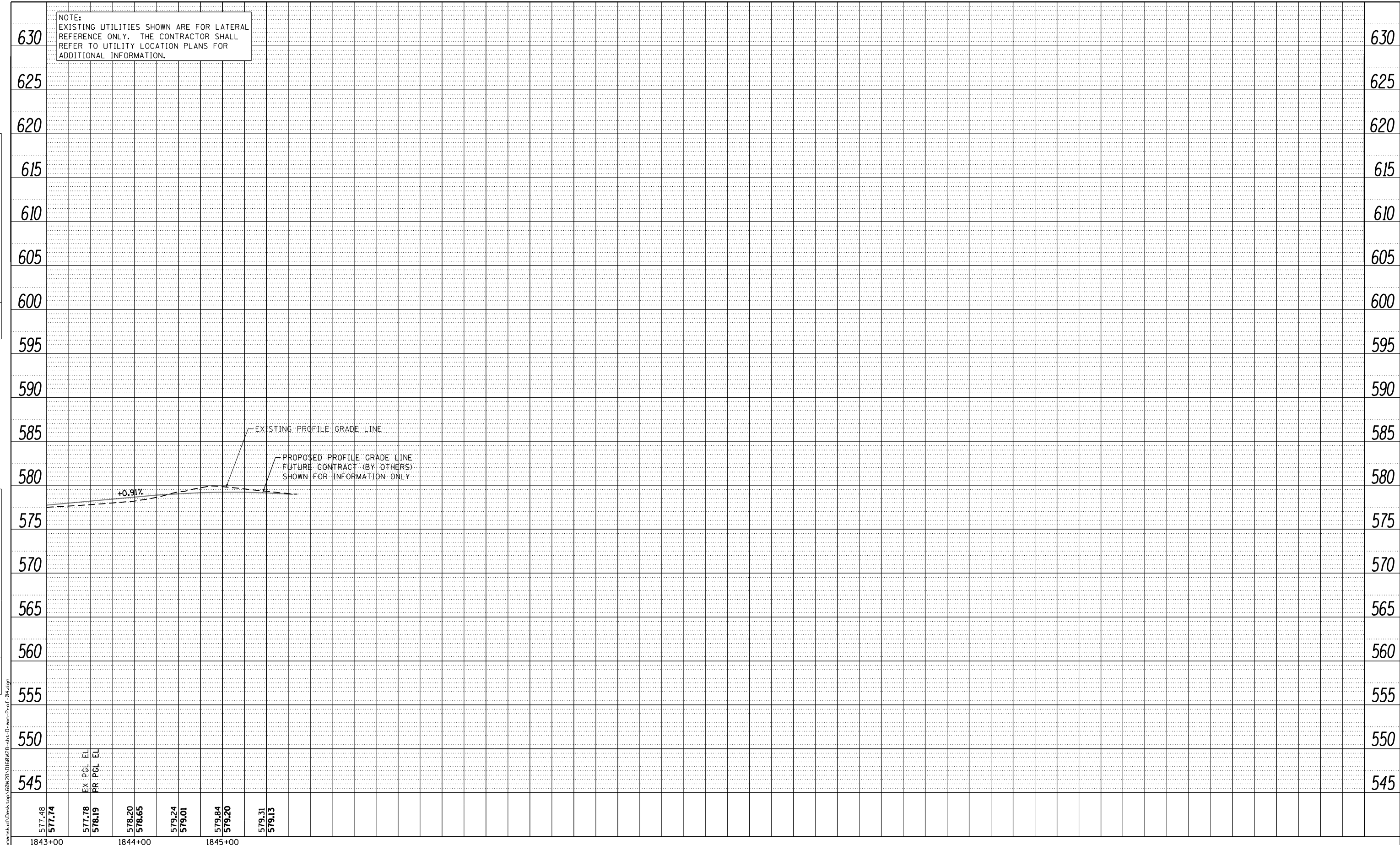
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	227
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

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	PLOTTED		
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	CHECKED		
	FILED		
	CARD FILE NAME		
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PROFILE	SURVEYED	BY	DATE
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RAMP NW



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PLOT DATE = 4/27/2014	DATE -	4/28/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE AND UTILITY PROFILE RAMP NW			
SCALE: 1" = 50'	SHEET 4	OF 4 SHEETS	STA. 1843+00 TO STA. 1845+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	229
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

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THIS SHEET OMITTED FROM SUBMITTAL



DI60W28-SHT-DRAIN-PLAN-00_Omitted.dgn	DESIGNED - DMS	REVISED -
USER NAME = ch1ua	DRAWN - DMS	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - EEY	REVISED -
PLOT DATE = 3/25/2014	DATE - 03/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

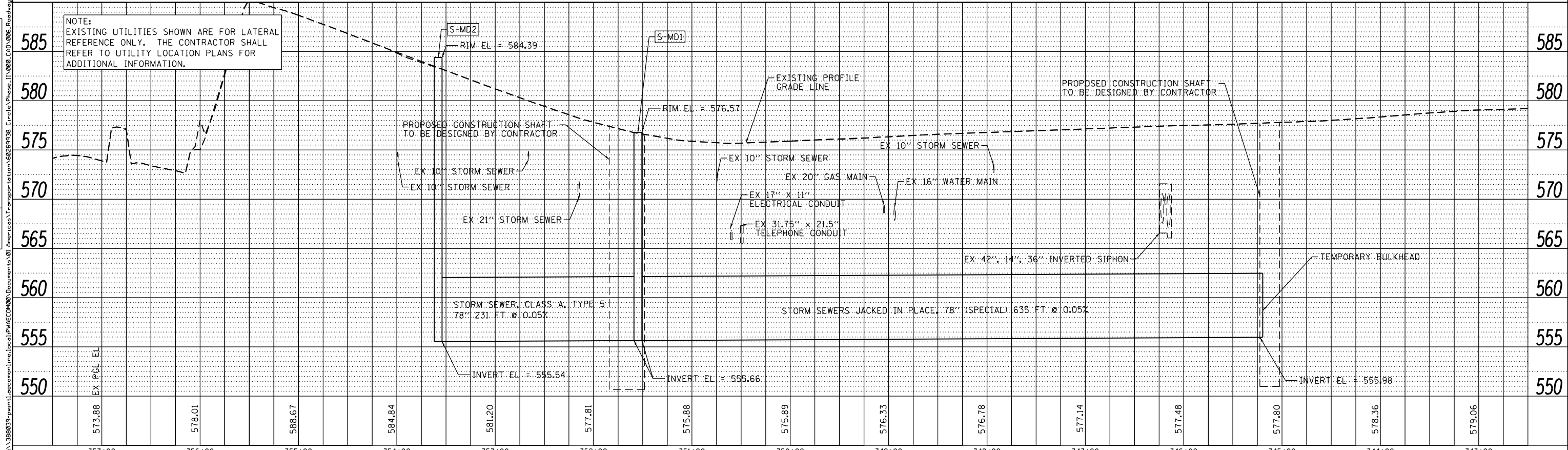
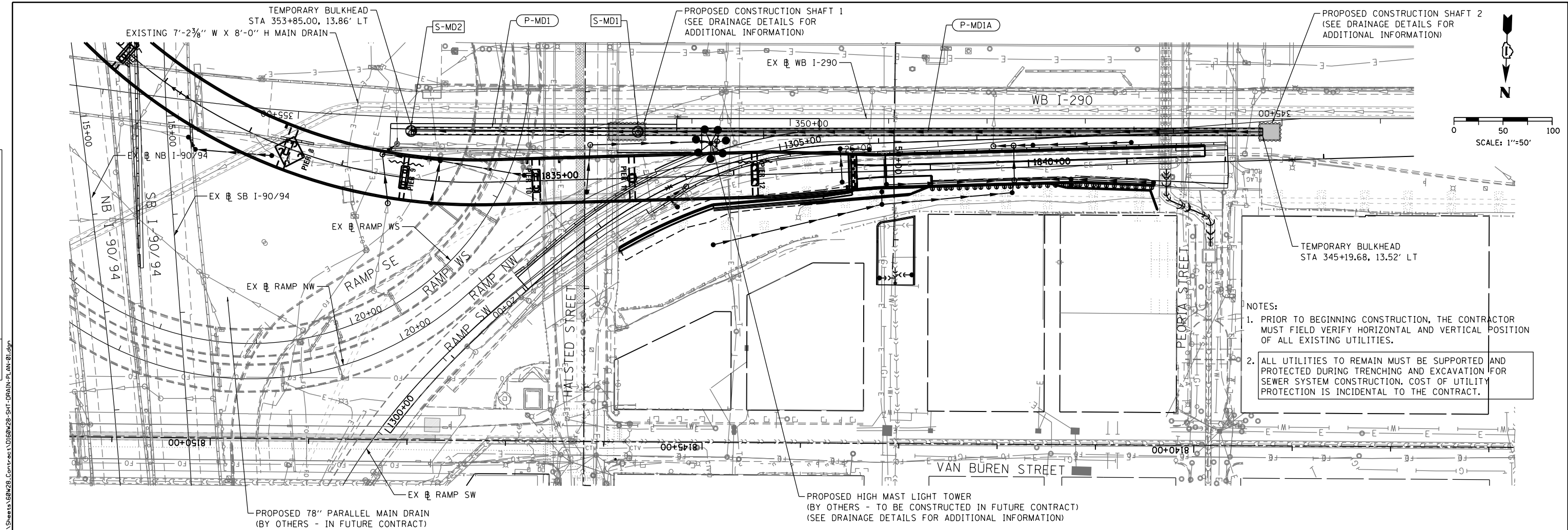
DRAINAGE AND UTILITY PLAN AND PROFILE

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	230
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

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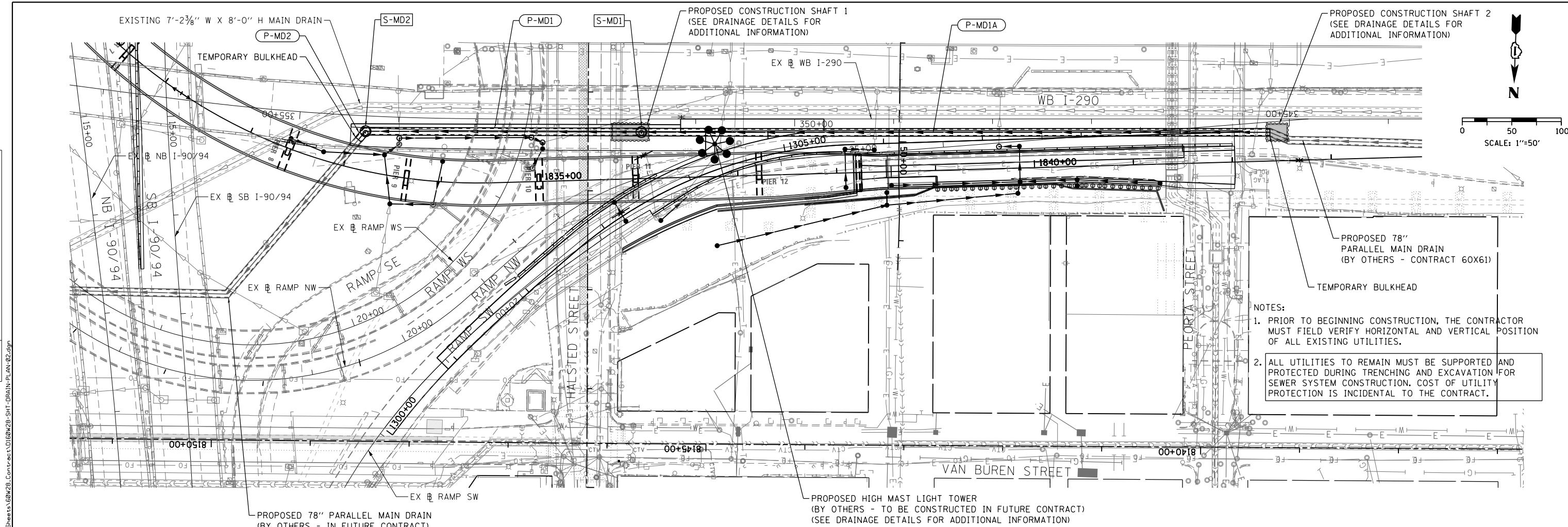
DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES
	CHECKED
	STRUCTURE
	NOTATIONS
	CHKD
	NO.
	NO.



357+00	356+00	355+00	354+00	353+00	352+00	351+00	350+00	349+00	348+00	347+00	346+00	345+00	344+00	343+00															
573.88	578.01	588.67	584.84	581.20	577.81	575.88	575.89	576.33	576.78	577.14	577.48	577.80	578.36	579.06															
DESIGNED - DMS		DRAWN - DMS		REVISOR -		CHECKED - EY		DATE - 04/28/14		SCALE: 1"=50'		SHEET 1 OF 1 SHEETS		STA. TO STA.															
AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800										D160W28-SHT-DRAIN-PLAN-01.dgn USER NAME = chiue PLOT SCALE = 100.0000' / in. PLOT DATE = 4/28/2014		DESIGNED - DMS DRAWN - DMS CHECKED - EY DATE - 04/28/14		REVISED - REVISED - REVISED - REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DRAINAGE AND UTILITY PLAN AND PROFILE 78" MAIN DRAIN AT WB I-290		F.A.I. R.E. 90/94/290		SECTION 2013-010R		COUNTY COOK		TOTAL SHEETS 747		SHEET NO. 231	
												CONTRACT NO. 60W28		ILLINOIS FED. AID PROJECT															

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	
	CHECKED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
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	DATE	

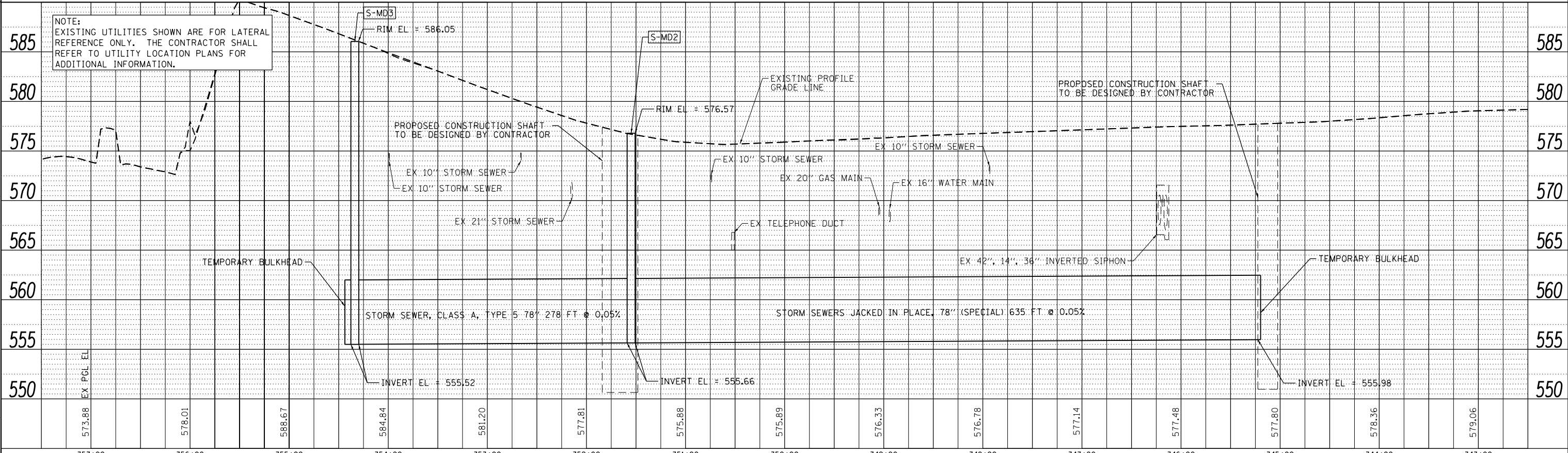


PROPOSED 78" PARALLEL MAIN DRAIN (BY OTHERS - CONTRACT 60X61)

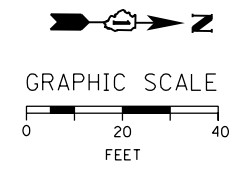
TEMPORARY BULKHEAD

NOTES:

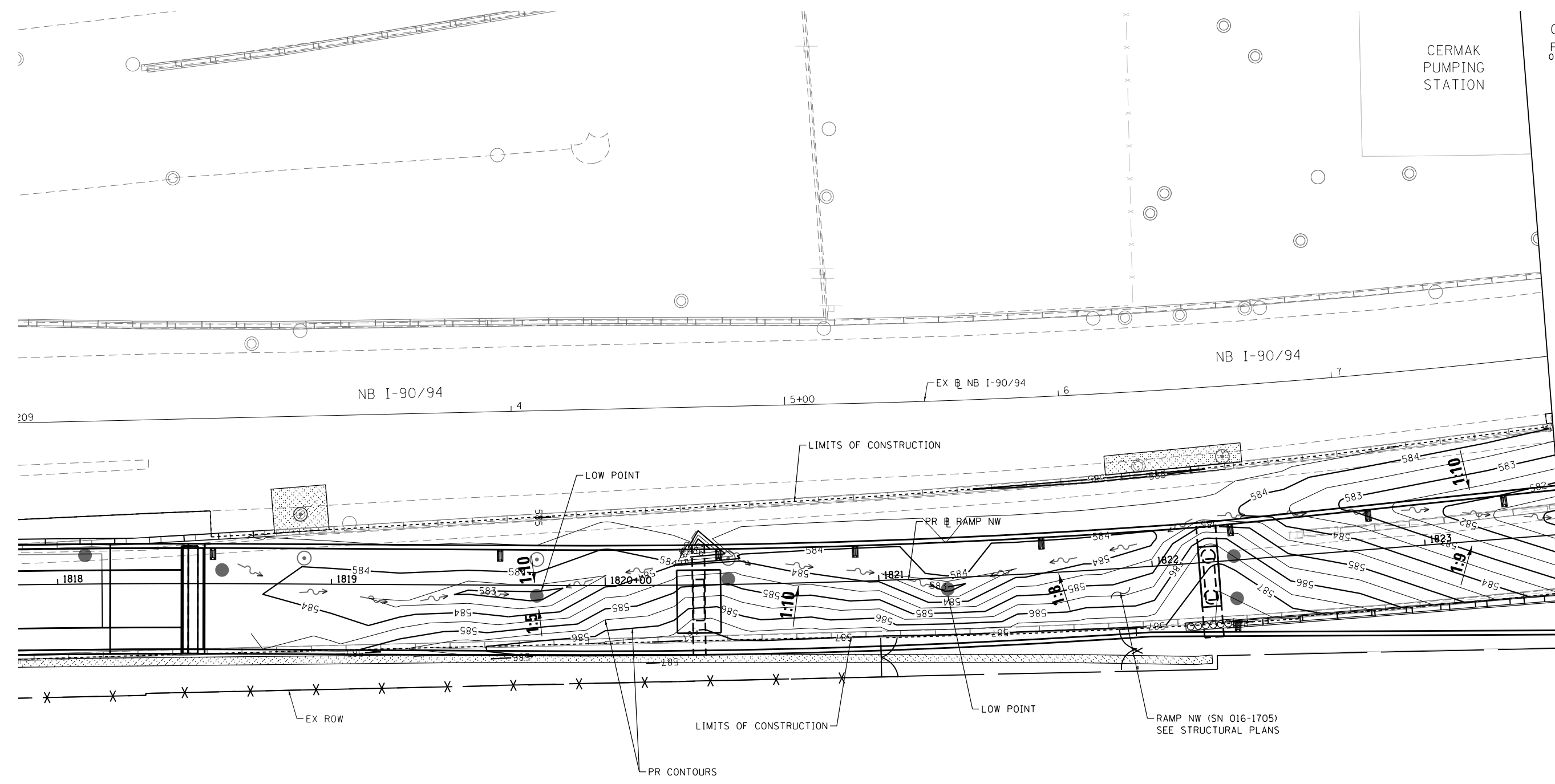
1. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR MUST FIELD VERIFY HORIZONTAL AND VERTICAL POSITION OF ALL EXISTING UTILITIES.
2. ALL UTILITIES TO REMAIN MUST BE SUPPORTED AND PROTECTED DURING TRENCHING AND EXCAVATION FOR SEWER SYSTEM CONSTRUCTION. COST OF UTILITY PROTECTION IS INCIDENTAL TO THE CONTRACT.



AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D160W28-SHT-DRAIN-PLAN-02.dgn	DESIGNED - DMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN AND PROFILE 78" MAIN DRAIN AT WB I-290			F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = chitua	DRAWN - DMS	REVISED -		SCALE: 1"=50'	SHEET 1	OF 1 SHEETS	STA.	TO STA.	90/94/290	2013-010R	COOK
	PLOT SCALE = 50.0000' / in.	CHECKED - EEE	REVISED -		CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 3/25/2014	DATE - 03/28/14	REVISED -									



CERMAK PUMPING STATION



MATCH LINE STA 1823+50
SEE SHEET NO. 234

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 PLOT DATE = 4/28/2014

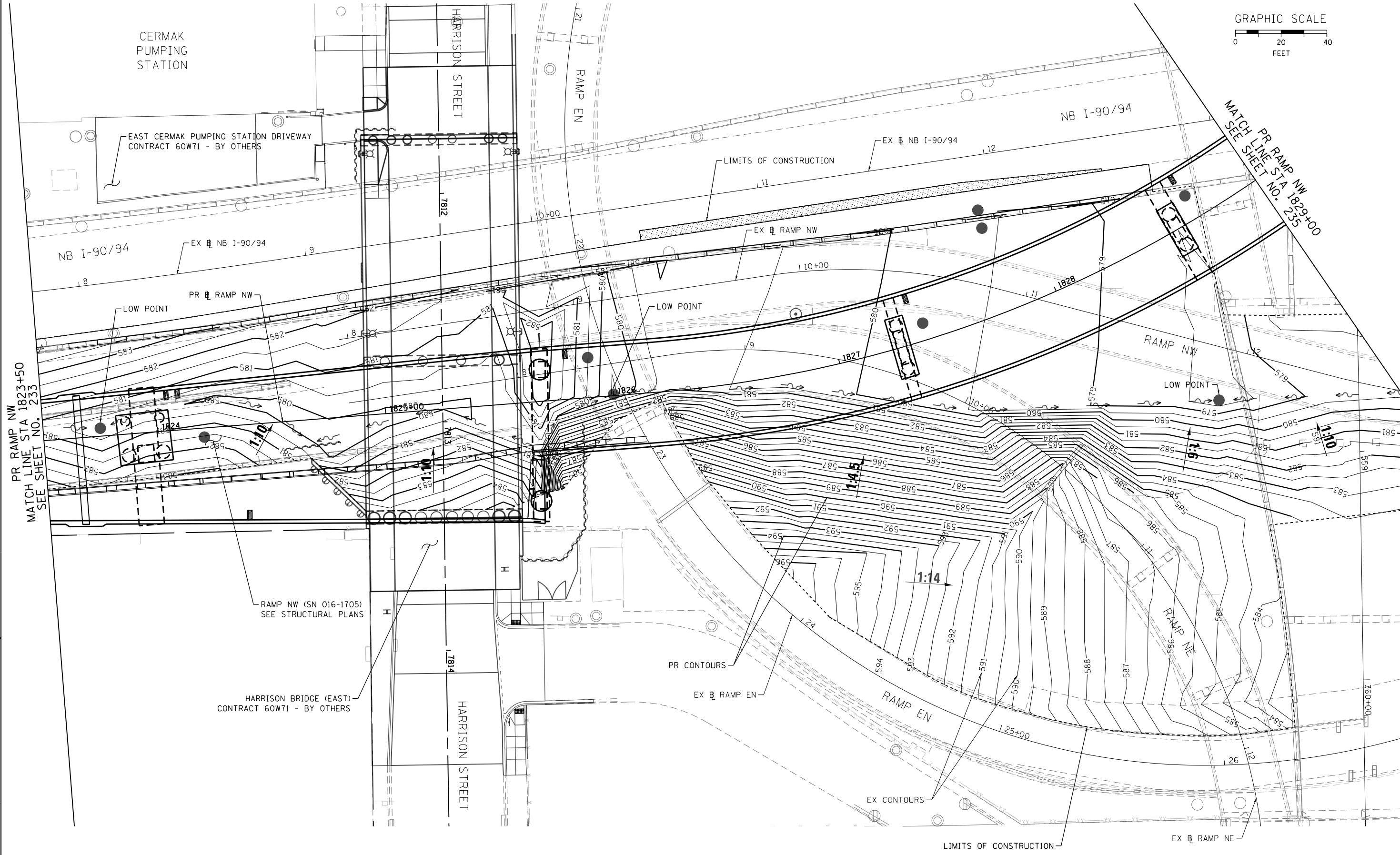
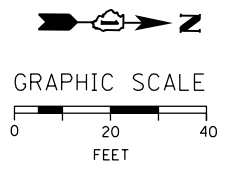
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DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 4/28/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	233
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



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 303 EAST WACKER DRIVE, SUITE 1400
 CHICAGO, IL 60601-5276
 PHONE: (312) 373-7700 FAX: (312) 373-6800



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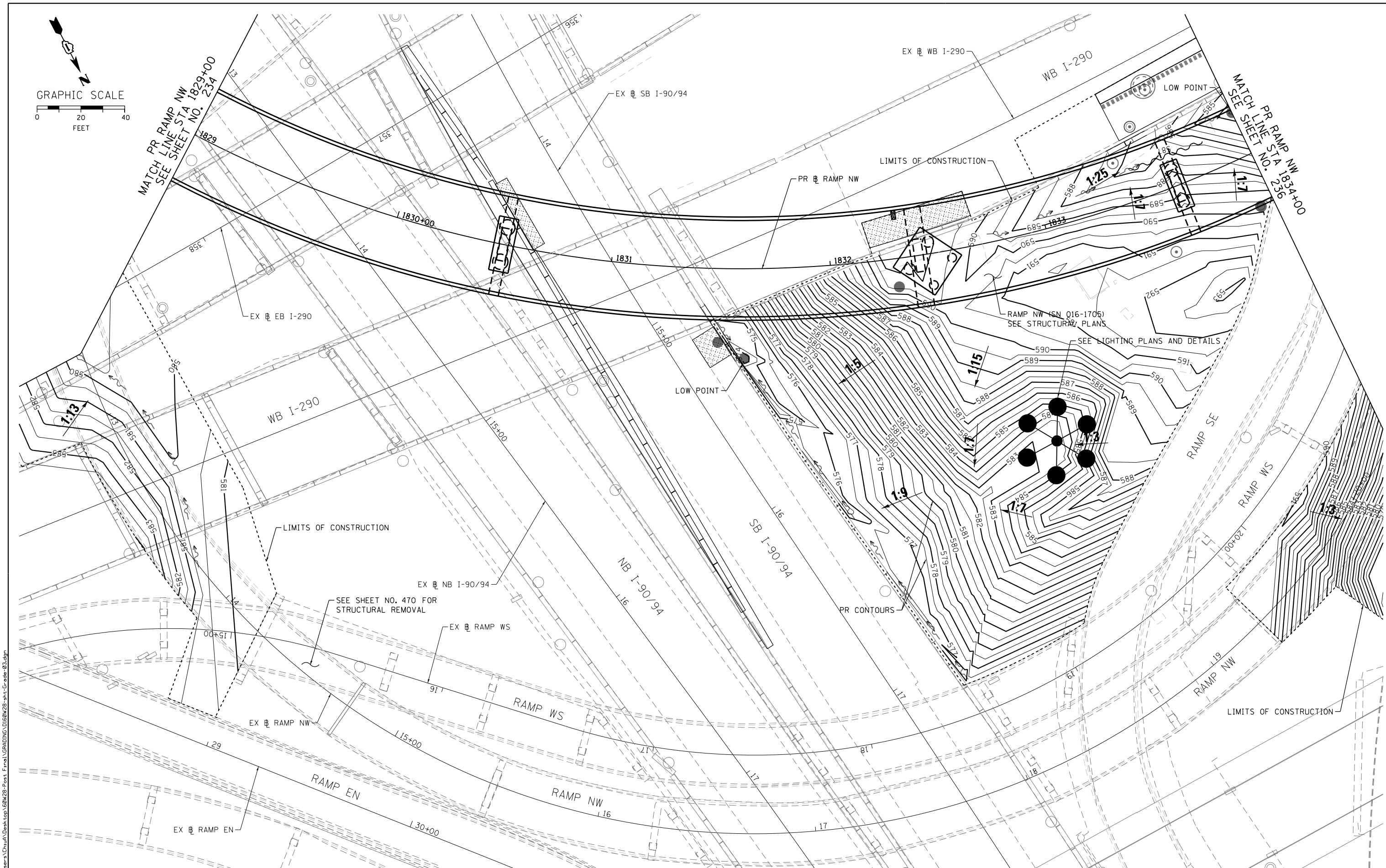
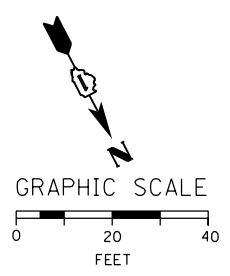
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DATE - 4/28/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	234
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



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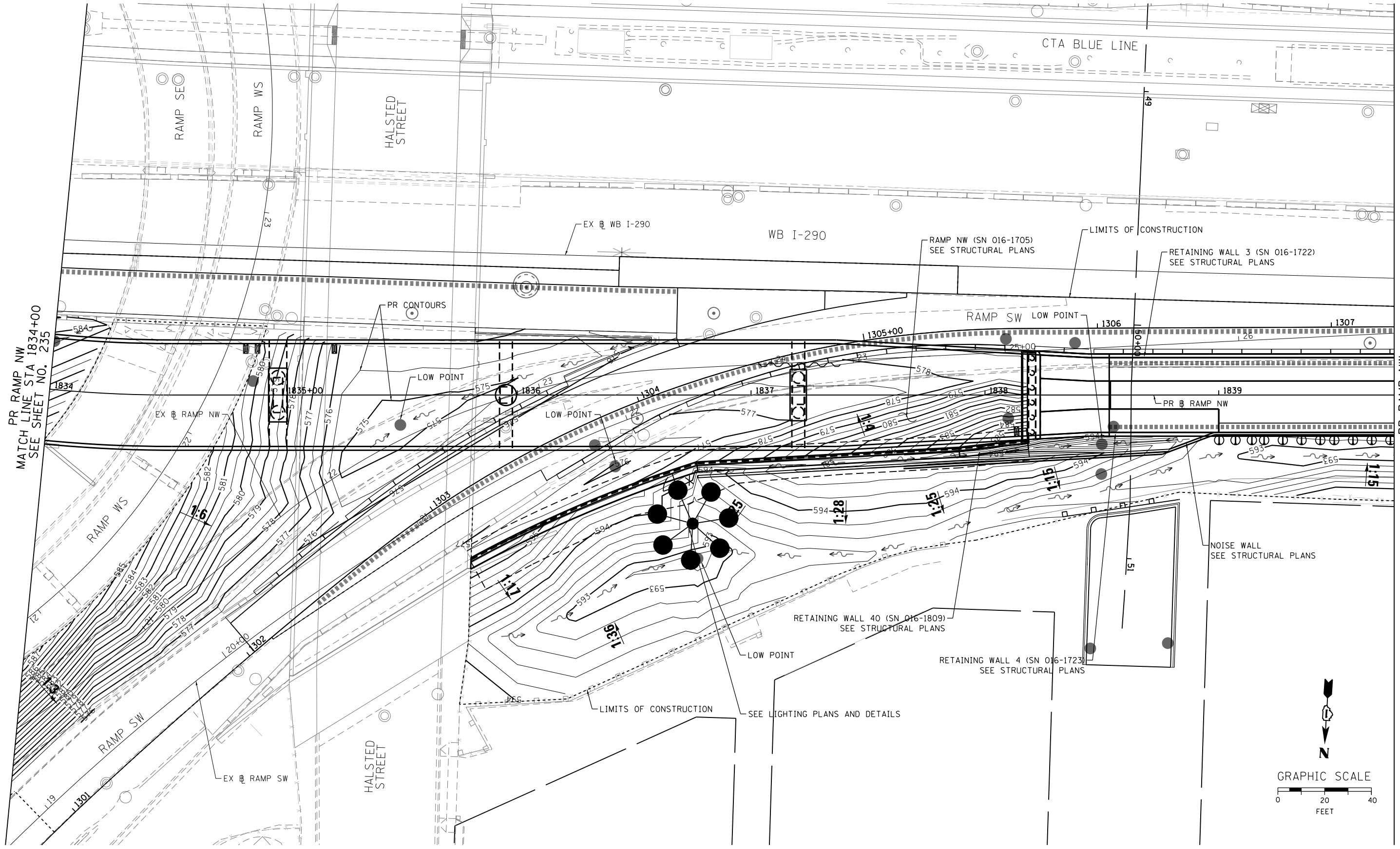
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DATE - 4/28/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

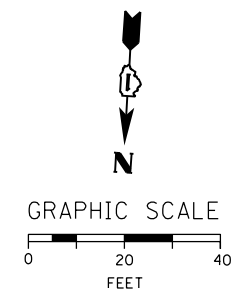
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F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 235
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



PR RAMP NW
MATCH LINE STA 1834+00
SEE SHEET NO. 235

PR RAMP NW
MATCH LINE STA 1839+75
SEE SHEET NO. 224A



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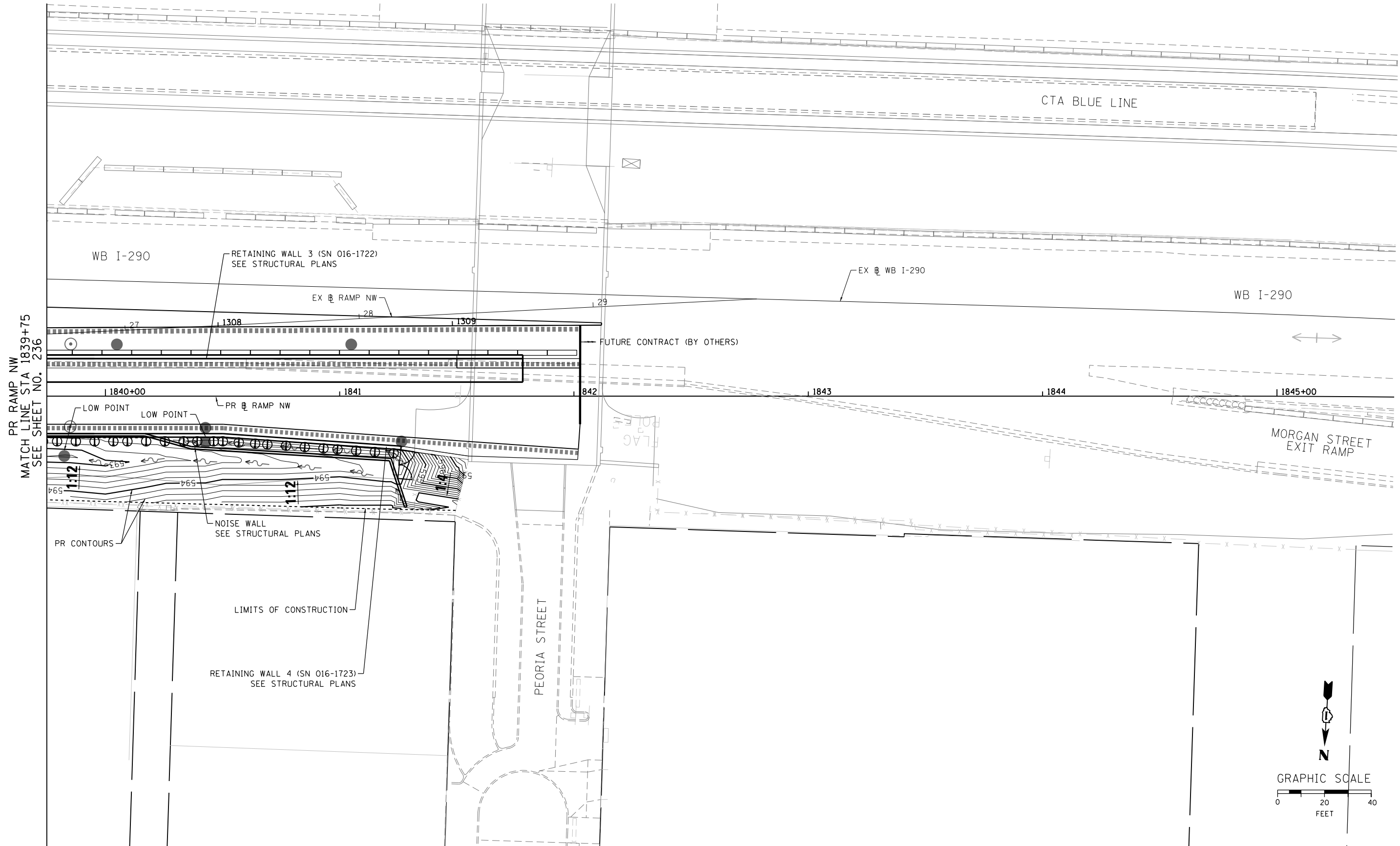
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DATE - 4/28/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

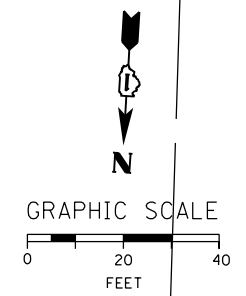
GRADING PLAN

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 236
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



PR RAMP NW
MATCH LINE STA 1839+75
SEE SHEET NO. 236



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PLOT DATE = 4/28/2014

DESIGNED - AFC	REVISED -
DRAWN - AFC	REVISED -
CHECKED - DBM	REVISED -
DATE - 4/28/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GRADING PLAN

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	237
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

WATER MAIN GENERAL NOTES:

- LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.
- THE CONTRACTOR MUST VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITH THE UTILITY OWNERS PRIOR TO DOING ANY WORK IN THE VICINITY. THE CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF UTILITY OWNERS. REGARDING NOTICE OF WORK AND PROTECTION OF UTILITIES, THE CONTRACTOR MUST COMPLY WITH THE CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION DAMAGE PREVENTION PROTOCOL, CITY INFRASTRUCTURE DEPARTMENTS. ALL UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION. (CALL DIGGER 312-744-7000)
- IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH AND MUST REMAIN IN PLACE, THE CONTRACTOR MUST PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES.
- TEST PITS MUST BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE ENGINEER, NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION.
- WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM IS CONSIDERED INCIDENTAL TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE ENGINEER DUE TO FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
- THE OPERATION OF ALL VALVES REQUIRED FOR SHUTDOWN MUST BE PERFORMED BY CDWM FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT. ANY VALVE FOUND NOT OPERABLE WILL BE REPAIRED OR REPLACED BY CDWM.
- REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING ANY EXCAVATION INCLUDING LEAKAGE FROM EXISTING WATER MAINS. ALL EXCAVATIONS ASSOCIATED WITH THE WATER MAIN WORK MUST BE KEPT DRY.
- ALL OPENINGS IN EXISTING WATER MAINS MUST BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED.
- ALL VALVE BASINS MUST BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- NOTES INDICATING S.A.L.L., E.W.L., ETC. MEAN SOUTH OF THE NORTH PROPERTY LINE, EAST OF THE WEST PROPERTY LINE, ETC. AND ARE MEASURED FROM THE NEAREST STREET.
- IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.
- THE CONTRACTOR SHALL CONSULT AND FOLLOW RESTRAINED JOINT PIPE MANUFACTURER'S GUIDELINES AS TO EXTENSION OF THE JOINT AFTER ASSEMBLY IN ORDER TO LIMIT THE JOINT TAKE-UP UNDER PRESSURE TEST OR SERVICE CONDITIONS.
- USE FILLER PIECES OF PIPE TO FILL THE AREA BETWEEN PIPE ENDS WHEN INSTALLING SLEEVE FITTINGS.
- ON CONNECTIONS TO EXISTING CAST IRON PIPES, USE CAUTION WHEN INSTALLING MJ SLEEVES. SET SCREW TYPE RESTRAINT GLANDS (E.G. RETAINER GLANDS) ARE NOT ACCEPTABLE. CONSULT THE SPECIFICATIONS FOR JOINT RESTRAINT REQUIREMENTS.
- ABANDON EXISTING WATER MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.
- SWAB ALL PIPE AND FITTINGS WITH CHLORINE SOLUTION DURING INSTALLATION AND USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE CDWM BUREAU OF WATER QUALITY, 312) 744-9196
- DE-CHLORINATION OF HEAVILY CHLORINATED WATER IS REQUIRED. THE CONTRACTOR OR SUBCONTRACTED CHLORINATOR SHALL DE-CHLORINATE AS LISTED FOR "INFORMATIONAL PURPOSES ONLY" IN APPENDIX C OF THE ANSI/AWWA STANDARD C-651-05, JUNE 1, 2005. THE CHLORINE LEVEL MUST BE BROUGHT TO POTABLE WATER LEVELS.
- ELEVATIONS ARE SHOWN IN THE CITY OF CHICAGO DATUM AND NAVD 88. THE CONVERSION FACTOR FROM CCD TO NAVD88 IS: NAVD 88 ELEVATION = CCD + 579.19.
- CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS ONLY WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO PRIVATE PROPERTY AND SHALL REPAIR SAID DAMAGE AT OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- ALL CASING PIPES MUST BE SMOOTH WELDED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A159, GRADE B. THE EXTERIOR OF THE CASING PIPE MUST HAVE COAL-TAR ENAMEL IN ACCORDANCE WITH AWWA C203 AND HAVE A THICKNESS OF 0.469 INCHES AND AN OUTSIDE DIAMETER OF 30 INCHES. SPLIT CASING PIPE MUST HAVE SIDE FLANGES FOR BOLTED CONNECTION OF THE TWO HALVES AND COMPLY WITH THE REQUIREMENTS OF THIS SPECIFICATION. INSTALLATION MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ACCEPTABLE PRODUCTS ARE FLANGED MAINTENANCE PIPE, "FMP" AS MANUFACTURED BY IRONROD, LLC, COLUMBUS, OH OR APPROVED EQUAL.
- SPACERS FOR CARRIER PIPES MUST BE EITHER THE TWO-PIECE METAL BAND TYPE WITH 2-INCH WIDE NON-METALLIC RUNNERS OR UNITS MANUFACTURED ENTIRELY OUT OF HIGH-DENSITY POLYETHYLENE. ON TWO-PIECE METAL BAND TYPE SPACERS, BANDS AND FASTENERS MUST BE OF CORROSION RESISTANT MATERIAL. ALL SPACERS MUST BE RATED FOR HEAVY DUTY SERVICE. MANUFACTURED BY OPSI PIPELINE SEAL AND INSULATOR, INCORPORATED; CASCADE WATERWORKS MANUFACTURING COMPANY OR RACI SPACERS NORTH AMERICA.
- PRIOR TO INSERTION IN THE CASING, EACH LENGTH OF PIPE MUST BE SUPPORTED ON CASING SPACERS IN SUCH A MANNER THAT AT NO TIME WILL THE WEIGHT OF THE PIPE BEAR ON THE BELL OR ANY PART OF THE PIPE TOUCH THE CASING.
- ALL PIPES MUST BE JOINTED PRIOR TO BEING PUSHED OR PULLED THROUGH THE CASING PIPE. AFTER PLACEMENT OF THE CARRIER PIPE THROUGH THE CASING, THE ENDS OF THE CASING ARE TO BE SEALED WITH BRICK AND MORTAR OR RUBBER END SEAL OR OTHER APPROVED METHOD AND MUST BE COMPLETELY LEAK-TIGHT.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATER MAIN
GENERAL NOTES**

E.N. DATE	SECTION	COUNTY	TOTAL SHEET
20/24/250	2013-010R	COOK	747 / 938
CONTRACT NO. 60R28			ILLINOIS/FED. AID PROJECT

SHEET OF SHEETS STA. TO STA.



DESIGNED BY: WJW-Bljg
 USER NAME: CooanHQ
 PLOT SCALE: 1/8"=1'-0" (1/8" = 1' @ 11")
 PLOT DATE: 4/2/2014

DESIGNED -	HMC	REVISED -	
DRAWN -	HMC	REVISED -	
CHECKED -	REB	REVISED -	
DATE -	04/28/14	REVISED -	

333 EAST WISCONSIN AVENUE, SUITE 4000
 CHICAGO, ILLINOIS 60601
 PHONE: (312) 977-7600 FAX: (312) 977-8800

NOTE: ALL OF THE FOLLOWING WATER MAIN CONSTRUCTION MUST BE COORDINATED AND SEQUENCED WITH THE CONSTRUCTION OF THE NORTHWEST FLYOVER RAMP AT THIS LOCATION.

PHASE A (RELOCATION OF WATER MAIN FROM UNDER EXISTING RAMP ROADWAY)

1. CONFIRM THAT CTA IS PREPARED FOR WATER MAIN SHUTDOWN, WHICH IMPACTS REST ROOM FACILITIES AT CTA STATION ENTRANCES OF UIC-HALSTED STATION AT PEGORIA STREET AND HALSTED STREET.
2. CONTACT CDWM TO ARRANGE FOR THE SHUTDOWN OF THE 16" WATER MAIN CROSSING THE HIGHWAY AT GREEN STREET, (312) 744-5070. DEWATER THE EXISTING PIPE.
3. CUT AND CAP EXISTING 16" WATER MAIN TO THE NORTH IN GREEN STREET AT APPROXIMATELY STATION 51+08. CUT AND CAP EXISTING 16" WATER MAIN TO THE SOUTH IN VACATED GREEN STREET AT APPROXIMATELY 200' N.N.L. OF HARRISON STREET. EXACT LOCATIONS AND DEPTH OF EXISTING WATER MAINS TO BE VERIFIED IN FIELD BY CONTRACTOR.
4. INSTALL EXCAVATION SUPPORT SYSTEM AS NECESSARY TO COMPLETE THE WORK. EXCAVATE SLOPE AND REMOVE 16" WATER MAIN AND BEND FROM APPROXIMATELY STATION 50+12 TO STATION 50+08.
5. PROVIDE 1' LONG COUPON OF REMOVED 16" WATER MAIN TO THE ENGINEER FOR MEASUREMENT AND ASSESSMENT FOR PHASE C REHABILITATION.
6. CONNECT NEW 16" WATER MAIN TO EXISTING 16" WATER MAIN UNDER EXPRESSWAY WITH MJ SLEEVE. INSTALL 30" CASING PIPE AND 16" CARRIER PIPE FROM CONNECTION TO APPROXIMATELY STATION 50+28. INSTALL TEMPORARY 16" MJ CAP.
7. BACKFILL EXCAVATION, RESTORE PAVEMENT AND RE-OPEN RAMP TO TRAFFIC PRIOR TO REQUIRED OPENING TIME.

PHASE B (PREPARATION FOR WATER MAIN REHABILITATION)

1. INSTALL BRACED EXCAVATION SUPPORT SYSTEM (NORTH SIDE) AS NECESSARY TO COMPLETE THE WORK. EXCAVATE SLOPE AND REMOVE 16" WATER MAIN FROM APPROXIMATELY STATION 50+28 TO STATION 51+07. PROVIDE LAUNCHING PIT ADEQUATELY SIZED FOR INSTALLATION OF LINER IN PHASE C.
2. INSTALL BRACED EXCAVATION SUPPORT SYSTEM (SOUTH SIDE) AS NECESSARY TO COMPLETE THE WORK. EXCAVATE AND REMOVE EXISTING RISER SHAFT AND 16" WATER MAIN FROM APPROXIMATELY STATION 47+36 TO STATION 47+52.
3. (SOUTH SIDE) INSTALL NEW 16" WATER MAIN AND CONNECT TO EXISTING 16" WATER MAIN UNDER EXPRESSWAY WITH MJ SLEEVE. INSTALL 30" CASING PIPE AND 16" CARRIER PIPE FROM CONNECTION TO STATION 47+36. INSTALL TEMPORARY 16" MJ CAP. PROVIDE RECEIVING PIT ADEQUATELY SIZED FOR INSTALLATION OF LINER IN PHASE C.

PHASE C (WATER MAIN REHABILITATION)

1. CLEAN AND TELEVIEW THE WATER MAIN TO BE REHABILITATED IN CONFORMANCE WITH THE SPECIAL PROVISIONS AND MANUFACTURER'S RECOMMENDATIONS. VERIFY THAT THE WATER MAIN IS READY FOR THE REHABILITATION PROCESS.
2. PERFORM THE WATER MAIN REHABILITATION BETWEEN APPROXIMATELY STATION 47+36 TO STATION 50+27. ALLOW COMPLETE INSTALLATION PROCESS PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATION.
3. TELEVIEW AND INSPECT THE LINER. VERIFY THAT THE LINER IS PROPERLY INSTALLED. FILL, FLUSH, AND PRESSURE TEST THE LINER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
4. AFTER APPROVAL OF THE PRESSURE TEST, DEWATER THE LINER IN PREPARATION FOR MAKING CONNECTIONS IN LATER PHASE. IF REQUIRED, ROBOTICALLY DRILL THROUGH LINER TO RESTORE TWO 2" CTA SERVICE CONNECTIONS. PROVIDE TEMPORARY CAPS AS REQUIRED AT THE 16" END OPENINGS OF THE LINER TO PREVENT ANY DEBRIS FROM ENTERING.

PHASE D (INSTALLATION OF RISER VAULTS, CASINGS, AND NEW WATER MAIN)

- NORTH SIDE**
1. CONSTRUCT BASE AND WALLS OF NEW PRE-CAST RISER SHAFT. SEE SHEET 246. INSTALL 16" PIPE AND FITTINGS AS SHOWN IN THE RISER SHAFT. RESTRAIN TOP AND BOTTOM BASE BENDS. INSTALL 2" TAP FOR FLUSHING ON TOP OF PIPE IN RISER SHAFT. INSTALL ROOF SLAB.
 2. INSTALL 16" PIPE AS SHOWN FROM THE RISER SHAFT TO THE NORTH IN GREEN STREET. INSTALL 16" VALVE AND PRECAST BASIN AT APPROXIMATELY STATION 51+03. ADJUST VALVE LOCATION AS REQUIRED IN FIELD TO COORDINATE WITH ADJACENT UTILITIES.
 3. INSTALL 16" PIPE IN 30" SPLIT CASING PIPE (BOTTOM HALF) BETWEEN PROPOSED RISER SHAFT LOCATION AND POINT OF CONNECTION TO EXISTING LINED 16" WATER MAIN UNDER EXPRESSWAY. TEMPORARILY CAP AND BRACE SOUTH END OF NEW 16" WATER MAIN. INSTALL TEMPORARY 2" TAP FOR FLUSHING AT THIS LOCATION.
 4. BEFORE THE NEW WATER MAIN CAN BE FILLED, FLUSHED, AND PRESSURE TESTED, THE BRACED EXCAVATION AREA MUST BE BACKFILLED AROUND THE RISER SHAFT AND ALL PIPE STRUCTURAL RESTRAINT SYSTEMS MUST BE IN PLACE.
 5. CONTACT CDWM TO ARRANGE FOR THE SHUTDOWN OF THE 16" WATER MAIN IN GREEN STREET FROM VAN BUREN STREET TO 166' S.S.L. (312) 744-5070. NOTE: THERE ARE ACTIVE WATER SERVICES ON THIS SECTION OF WATER MAIN TO BE SHUT DOWN. THE CONNECTION WORK DESCRIBED IN NOTE 7 MUST BE COMPLETED WITHIN 4 HOURS OF THE SHUTDOWN.
 6. EXCAVATE AND DEMOLISH EXISTING VALVE BASIN AT 166' S.S.L. OF VAN BUREN STREET.
 7. DEWATER EXISTING 16" WATER MAIN AND REMOVE 16" VALVE AT 166' S.S.L. OF VAN BUREN STREET. CONNECT NEW 16" WATER MAIN TO EXISTING WATER MAIN WITH 16" PIPE AND MJ SLEEVE. CDWM WILL FILL, FLUSH, AND RESTORE WATER SERVICE TO EXISTING 16" WATER MAIN.
 8. SLOWLY OPEN NEW 16" VALVE. FILL AND THOROUGHLY FLUSH NEW WATER MAIN TO REMOVE ALL AIR.
 9. CLOSE 16" VALVE AND PRESSURE TEST NEW SECTION OF 16" WATER MAIN TO 100 PSI IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 10. AFTER APPROVAL OF THE PRESSURE TEST, DEWATER THE NEW WATER MAIN IN PREPARATION FOR MAKING THE FINAL CONNECTION.
 11. REMOVE CAP AND TEMPORARY FLUSHING TAP. CONNECT TO EXISTING LINED 16" WATER MAIN TO THE SOUTH UNDER EXPRESSWAY WITH 16" MJ SLEEVE OR APPROVED COUPLING FOR THE LINER USED.
 12. INSTALL 30" SPLIT CASING PIPE (TOP HALF) BETWEEN CONNECTION POINT AND RISER SHAFT. BACKFILL TRENCH.
- SOUTH SIDE**
13. CONSTRUCT BASE WALLS OF NEW PRE-CAST RISER SHAFT. SEE SHEET 246. INSTALL 16" PIPE AND FITTINGS AS SHOWN IN THE RISER SHAFT. RESTRAIN TOP AND BOTTOM BASE BENDS. INSTALL 2" TAP FOR FLUSHING ON TOP OF PIPE IN RISER SHAFT. INSTALL ROOF SLAB.
 14. INSTALL 16" PIPE AS SHOWN FROM THE RISER SHAFT TO THE SOUTH IN VACATED GREEN STREET. INSTALL 16"x8" 28MJ TEE, 8" DI MJ CHICAGO STANDARD GATE VALVE AND PRECAST BASIN, 8" DI PIPE, AND CHICAGO STANDARD FIRE HYDRANT AS SHOWN.
 15. INSTALL 16" PIPE IN 30" SPLIT CASING PIPE (BOTTOM HALF) BETWEEN PROPOSED RISER SHAFT LOCATION AND POINT OF CONNECTION TO EXISTING LINED 16" WATER MAIN UNDER EXPRESSWAY. TEMPORARILY CAP AND BRACE NORTH END OF NEW 16" WATER MAIN. INSTALL TEMPORARY 2" TAP FOR FLUSHING AT THIS LOCATION.
 16. BEFORE THE NEW WATER MAIN CAN BE FILLED, FLUSHED, AND PRESSURE TESTED, THE BRACED EXCAVATION AREA MUST BE BACKFILLED AROUND THE RISER SHAFT AND ALL PIPE STRUCTURAL RESTRAINT SYSTEMS MUST BE IN PLACE.
 17. CONTACT CDWM TO ARRANGE THE SHUTDOWN OF THE 16" WATER MAIN UNDER VACATED GREEN STREET FROM HARRISON STREET TO 196' N.N.L. (312) 744-5070.
 18. EXCAVATE AND DEMOLISH EXISTING VALVE BASIN AT 196' N.N.L. OF HARRISON STREET.
 19. EXCAVATE AND DEMOLISH EXISTING VALVE BASIN AT 31' W.E.L. OF VACATED GREEN STREET. VALVE WAS PREVIOUSLY ABANDONED UNDER CONTRACT 60W26.
 20. DEWATER EXISTING 16" WATER MAIN AND REMOVE 16" VALVE AT 196' N.N.L. OF HARRISON STREET. INSTALL 16" VALVE AND PRECAST BASIN AT APPROXIMATELY STATION 47+13. ADJUST VALVE LOCATION AS REQUIRED IN FIELD TO COORDINATE WITH ADJACENT UTILITIES. CONNECT NEW 16" WATER MAIN TO EXISTING WATER MAIN WITH 16" PIPE AND MJ SLEEVE. CDWM WILL FILL, FLUSH AND RESTORE WATER SERVICE TO EXISTING 16" WATER MAIN.
 21. SLOWLY OPEN NEW 16" VALVE. FILL AND THOROUGHLY FLUSH NEW WATER MAIN TO REMOVE ALL AIR.
 22. CLOSE 16" VALVE AND PRESSURE TEST NEW SECTION OF 16" WATER MAIN TO 100 PSI IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 23. AFTER APPROVAL OF THE PRESSURE TEST, DEWATER THE NEW WATER MAIN IN PREPARATION FOR MAKING THE FINAL CONNECTION.
 24. REMOVE CAP AND TEMPORARY FLUSHING TAP. CONNECT TO EXISTING LINED 16" WATER MAIN TO THE NORTH UNDER EXPRESSWAY WITH 16" MJ SLEEVE OR APPROVED COUPLING FOR THE LINER USED.
 25. INSTALL 30" SPLIT CASING PIPE (TOP HALF) BETWEEN CONNECTION POINT AND RISER SHAFT. BACKFILL TRENCH.

PHASE E (RESTORATION OF WATER SERVICE)

1. CONTACT CDWM TO OPERATE VALVES FOR FILLING AND FLUSHING 16" WATER MAIN CROSSING THE HIGHWAY, (312) 744-5070.
2. THOROUGHLY FLUSH WATER MAIN CROSSING USING 2" TAPS ON TOP BASE BENDS IN RISER SHAFTS AND NEW FIRE HYDRANT AT STATION 47+22. DISINFECT PER THE CONTRACT DOCUMENTS. AFTER APPROVAL OF DISINFECTION BY CDWM, RESTORE CTA SERVICES AND PUT WATER MAIN INTO SERVICE.
3. RESTORE ALL WATER MAIN TRENCHES PER THE DETAILED DRAWING.

BILL OF MATERIALS:

- NOTE: ALL PIPE AND FITTINGS USED SHALL BE RESTRAINED JOINT)
- 190' OF 16" MJ DI PIPE
 - 4'16" DI MJ SLEEVES
 - 76' OF 30" STEEL CASING PIPE
 - 4'16" 28MJ 1/4" BASE BENDS
 - 2'16" MJ CHICAGO STANDARD GATE VALVES
 - 290' WATER MAIN REHABILITATION
 - 1'16"x8" 28MJ TEE
 - 1'8" MJ CHICAGO STANDARD GATE VALVE
 - 1' CHICAGO STANDARD 8" MJ FIRE HYDRANT
 - 1' 8" MJ DI PIPE
 - 1' 31"x12" 28MJ OFFSET

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
SEQUENCING NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

E.N. SHEET	SECTION	COUNTY	TOTAL SHEET SHEETS, NO.
20/24/2/29	2013-010R	COOK	74 / 231
			CONTRACT NO. 60W26
			ILLINOIS/FED. AID PROJECT



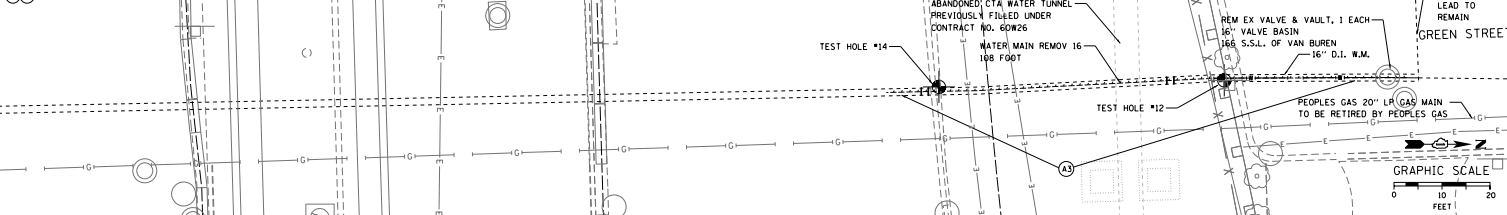
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PLOT DATE : 4/25/2014

DESIGNED - HMC
DRAWN - HMC
CHECKED - RBB
DATE - 04/28/14

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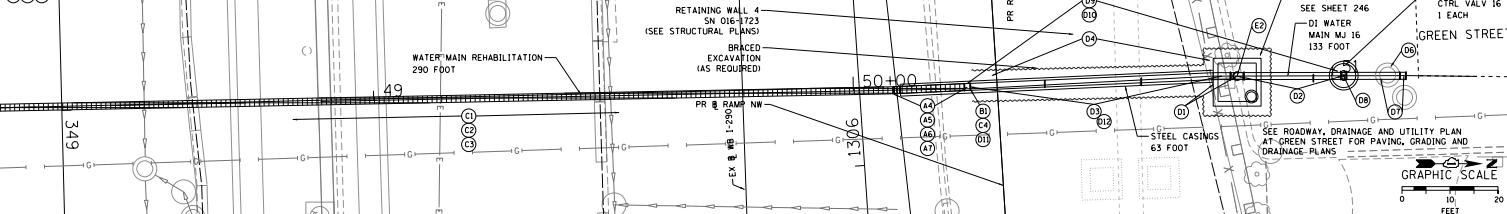
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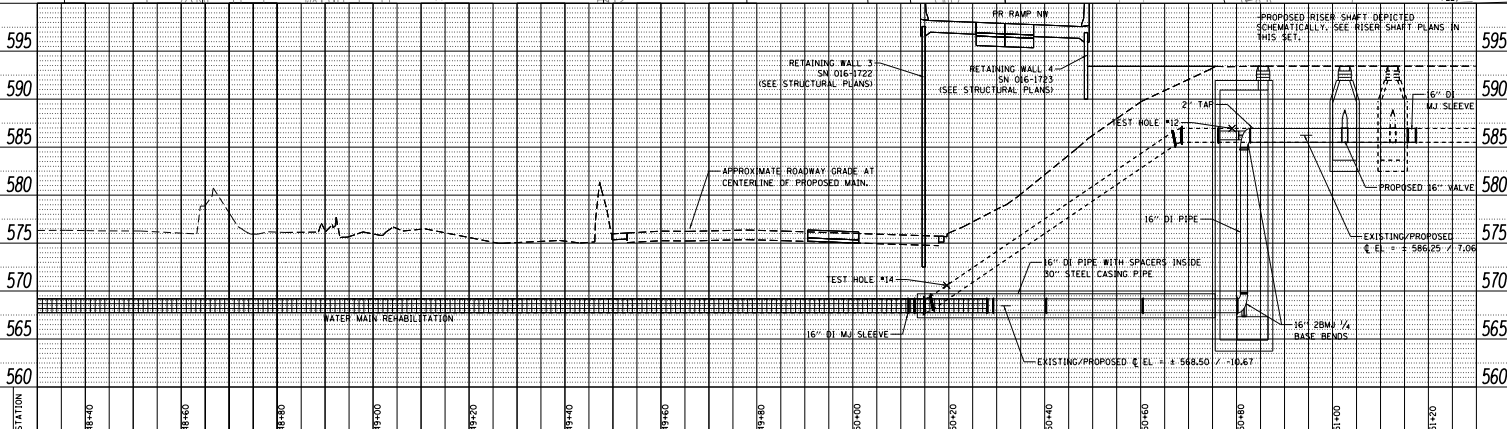
PROPOSED

(B1) (B2)



PLAN	DATE	BY
REVISION	DATE	BY
NO.		

PROFILE	DATE	BY
REVISION	DATE	BY
NO.		



006029-00-00-00-00-00
 USER NAME: J. Cooper/H2
 PLOT SCALE: 1/8" = 1'-0"
 PLOT DATE: 4/25/2014

DESIGNED - HMC	REVISED -
DRAWN - HMC	REVISED -
CHECKED - REB	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

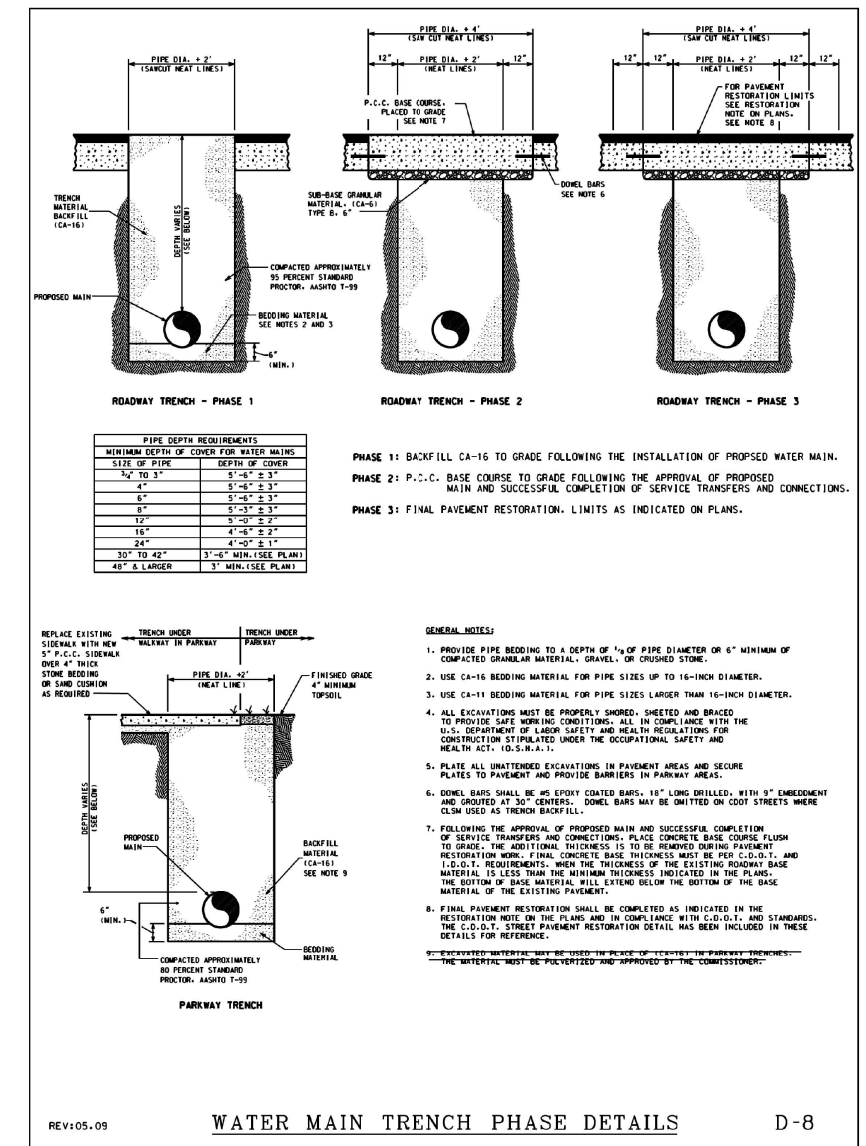
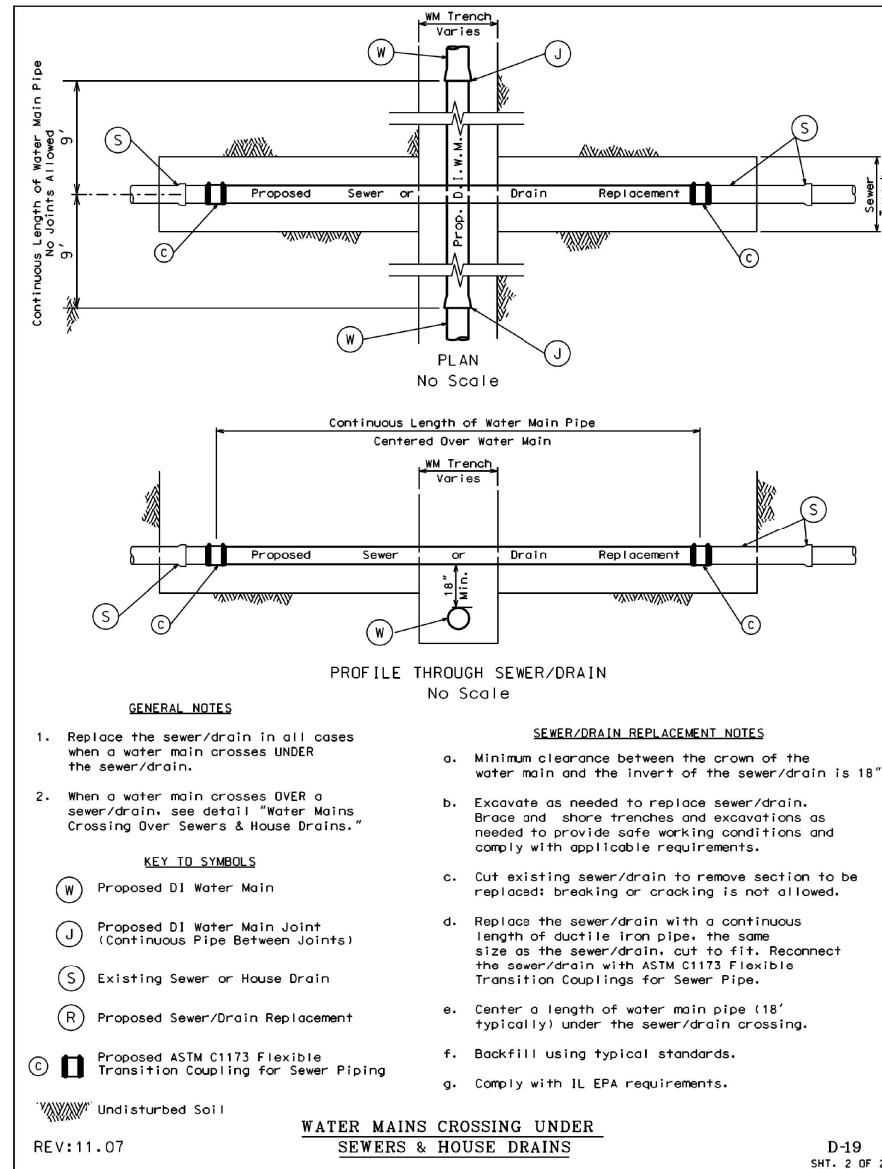
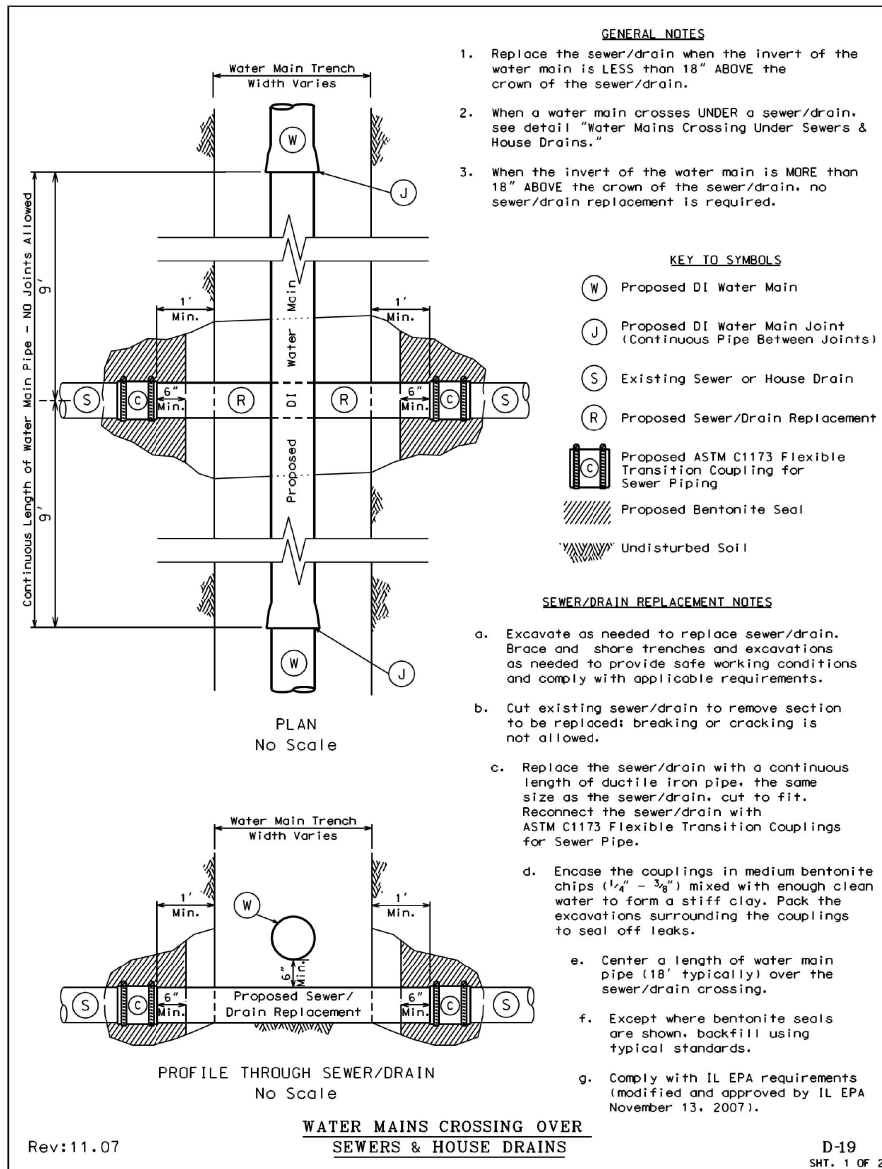
**WATER MAIN RELOCATION
 PLAN AND PROFILE**

SCALE: SHEET OF SHEETS STA. TO STA.

E.P.N. 90/24/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 240
		CONTRACT NO. 60W28	

A.E.C.O.M. 1100 N. MICHIGAN AVE. SUITE 1400 CHICAGO, IL 60610-4242 PHONE: (312) 851-7000 FAX: (312) 851-8800

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D16W28-sht-WM-06.dgn
 USER NAME = CooperM2
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/24/2014

DESIGNED - HHC
 DRAWN - HHC
 CHECKED - RBB
 DATE - 03/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	243
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

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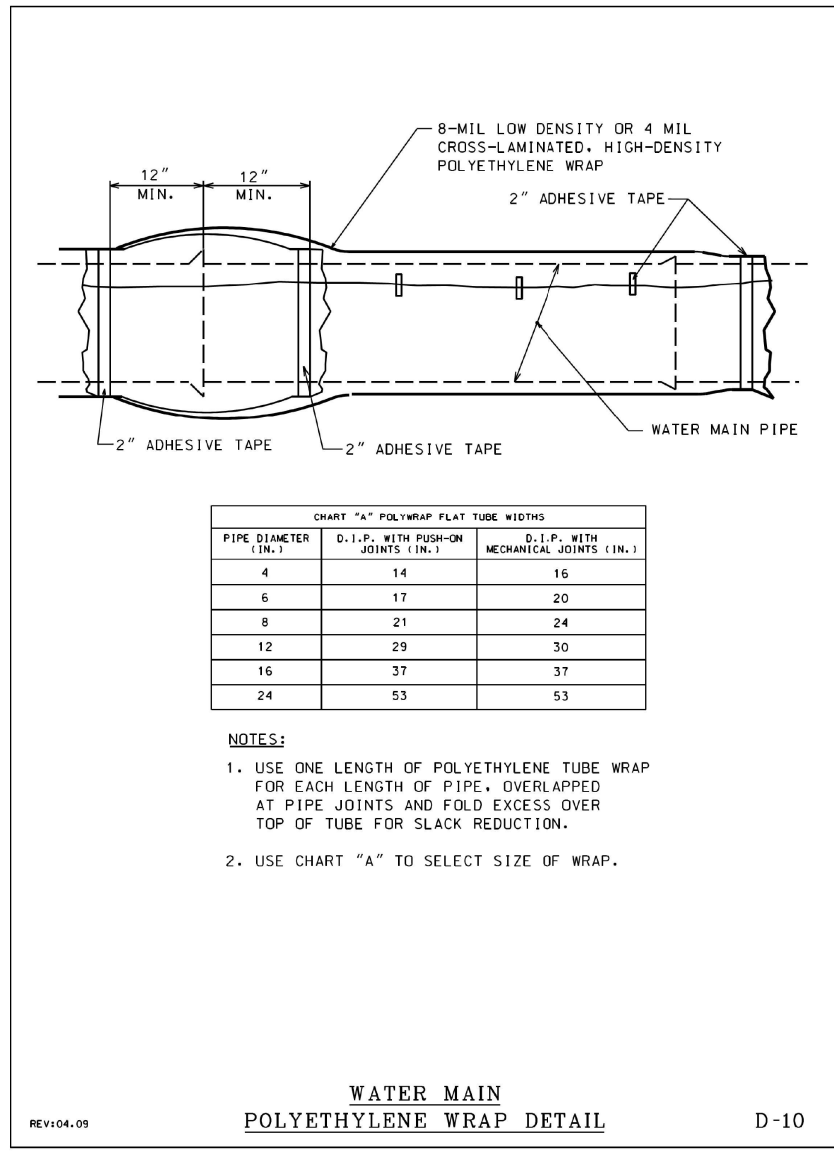
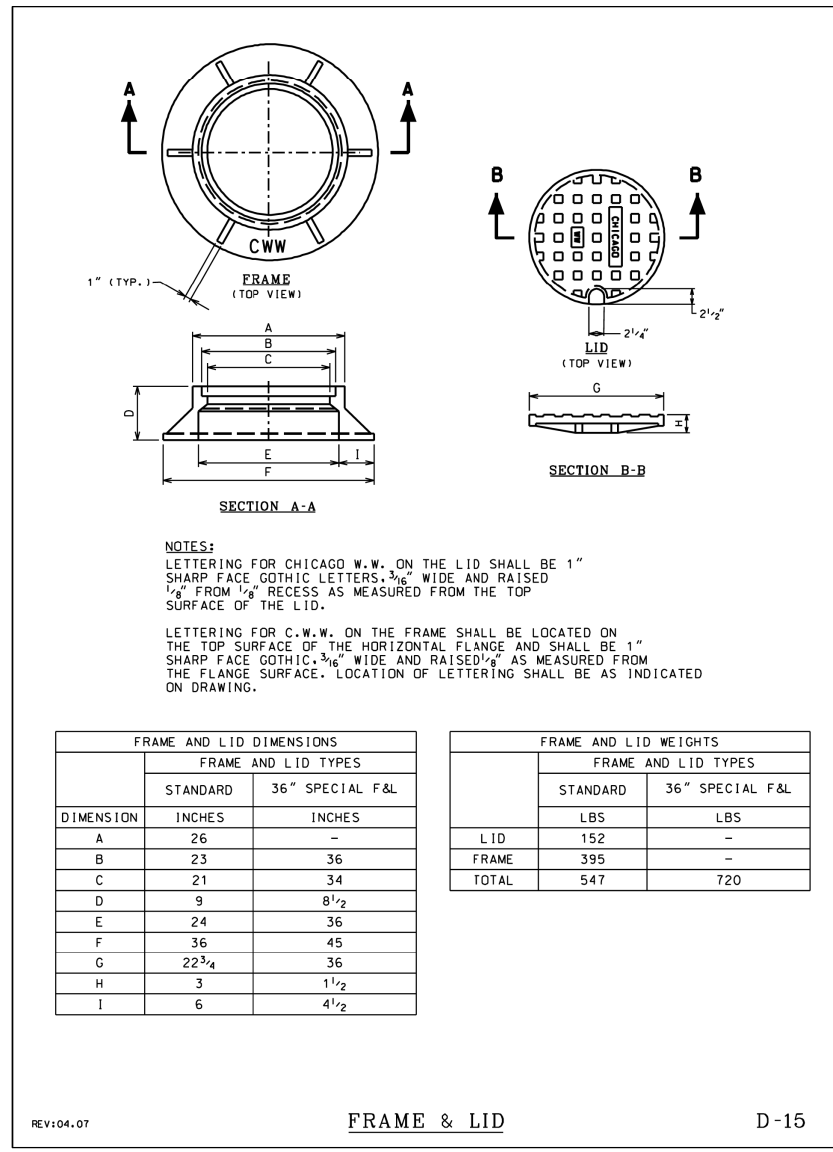


CHART "A" POLYWRAP FLAT TUBE WIDTHS

PIPE DIAMETER (IN.)	D.I.P. WITH PUSH-ON JOINTS (IN.)	D.I.P. WITH MECHANICAL JOINTS (IN.)
4	14	16
6	17	20
8	21	24
12	29	30
16	37	37
24	53	53

- NOTES:
- USE ONE LENGTH OF POLYETHYLENE TUBE WRAP FOR EACH LENGTH OF PIPE, OVERLAPPED AT PIPE JOINTS AND FOLD EXCESS OVER TOP OF TUBE FOR SLACK REDUCTION.
 - USE CHART "A" TO SELECT SIZE OF WRAP.

REV:04.09 WATER MAIN POLYETHYLENE WRAP DETAIL D-10



NOTES:
 LETTERING FOR CHICAGO W.W. ON THE LID SHALL BE 1" SHARP FACE GOTHIC LETTERS, 3/16" WIDE AND RAISED 1/8" FROM 1/2" RECESS AS MEASURED FROM THE TOP SURFACE OF THE LID.
 LETTERING FOR C.W.W. ON THE FRAME SHALL BE LOCATED ON THE TOP SURFACE OF THE HORIZONTAL FLANGE AND SHALL BE 1" SHARP FACE GOTHIC, 3/16" WIDE AND RAISED 1/4" AS MEASURED FROM THE FLANGE SURFACE. LOCATION OF LETTERING SHALL BE AS INDICATED ON DRAWING.

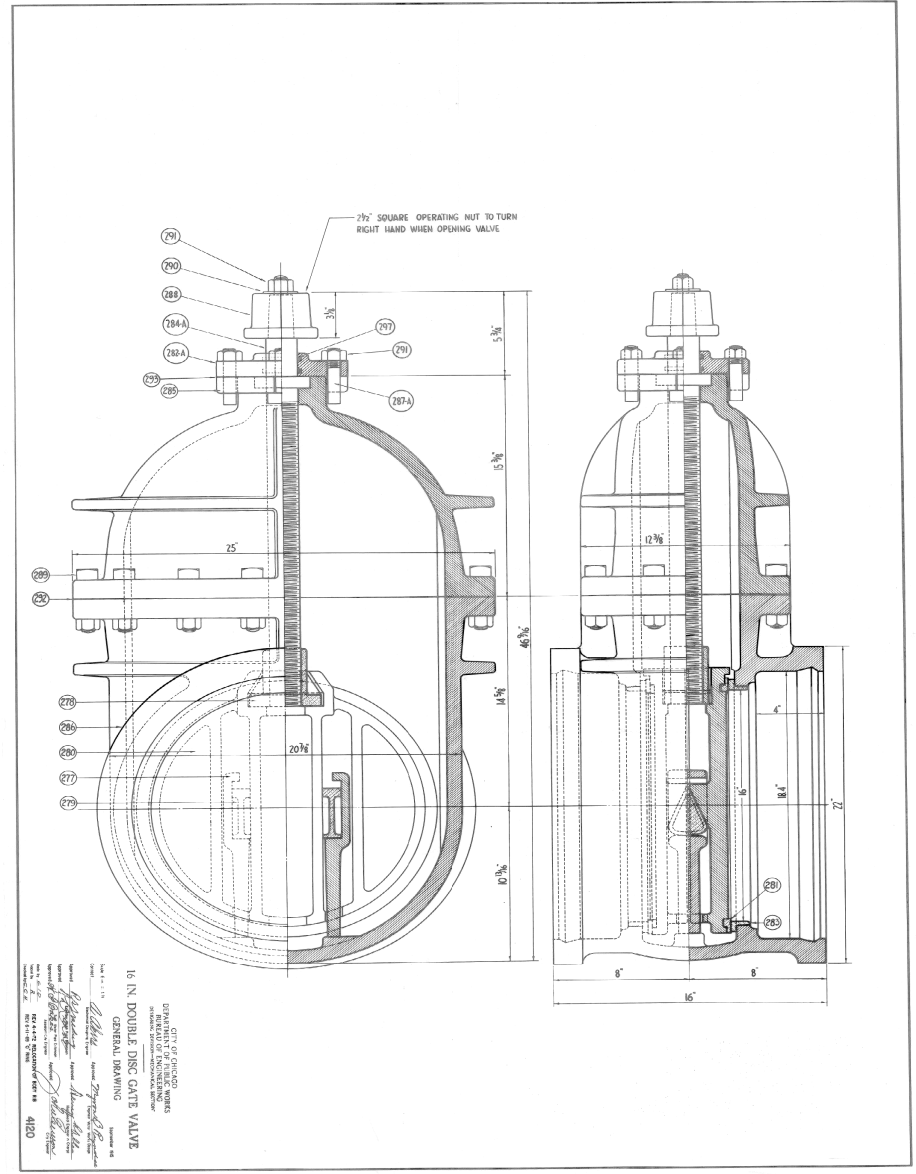
FRAME AND LID DIMENSIONS

DIMENSION	FRAME AND LID TYPES	
	STANDARD	36" SPECIAL F&L
A	26	-
B	23	36
C	21	34
D	9	8 1/2
E	24	36
F	36	45
G	22 3/4	36
H	3	1 1/2
I	6	4 1/2

FRAME AND LID WEIGHTS

	FRAME AND LID TYPES	
	STANDARD	36" SPECIAL F&L
LID	152	-
FRAME	395	-
TOTAL	547	720

REV:04.07 FRAME & LID D-15



CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF WATER MAINS
 GENERAL DRAWING
 16 IN. DOUBLE DISC GATE VALVE
 4/100



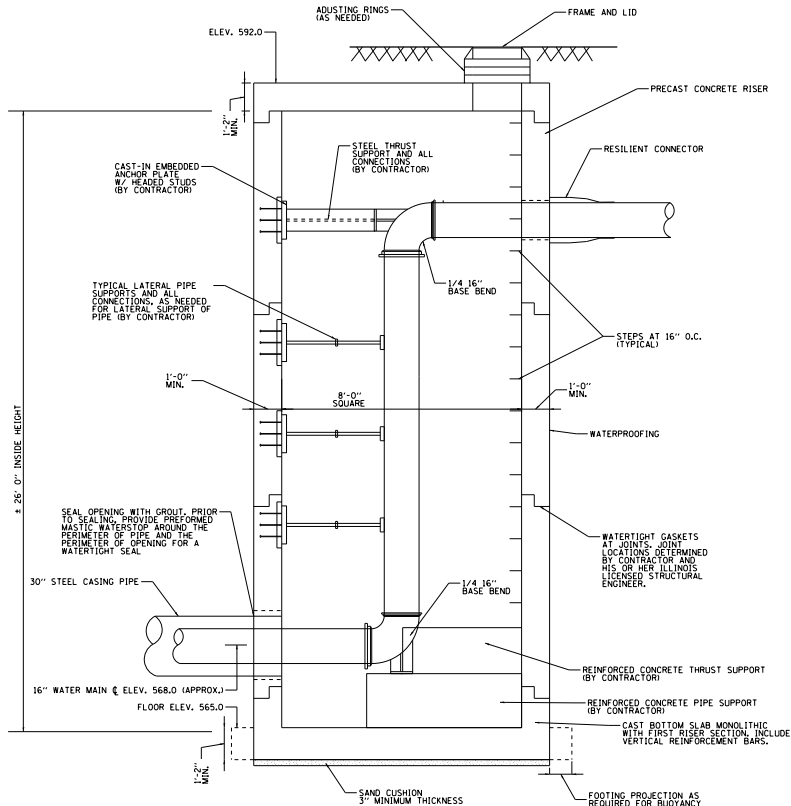
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 USER NAME = CooperM2
 PLOT SCALE = 20.0000' / in.
 PLOT DATE = 3/24/2014

DESIGNED - HHC
 DRAWN - HHC
 CHECKED - RBB
 DATE - 03/28/14

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION DETAILS
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	244
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



NOTES:

- FOR WATER MAIN GENERAL NOTES, CONSTRUCTION SEQUENCING NOTES, LOCATION PLANS AND PROFILE AND WATER MAIN AND STRUCTURE DETAILS, SEE SHEET NOS. 238 THROUGH 245.
- RISER SHAFT FOR THE RELOCATED WATER MAIN SHALL BE DESIGNED AND CONSTRUCTED OF PRECAST REINFORCED CONCRETE TO THE MINIMUM REQUIREMENTS SHOWN ON THE DRAWINGS. SPECIAL PROVISION FOR PRECAST CONCRETE RISER, REQUIRED REFERENCES AND AS SHOWN. AT CONTRACTOR'S OPTION, RISER SHAFT MAY BE CONSTRUCTED OF CAST-IN-PLACE CONCRETE.
- RISER SHAFT, PIPE SUPPORTS AND THRUST RESTRAINTS FOR THE RELOCATED WATER MAIN, INCLUDING EMBEDMENTS INTO RISER STRUCTURE AND ALL CONNECTIONS SHALL BE DESIGNED BY AN ILLINOIS LICENSED STRUCTURAL ENGINEER EMPLOYED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT DESIGN CALCULATIONS, DRAWINGS AND DETAILS SEALED AND SIGNED BY THE CONTRACTOR'S ILLINOIS LICENSED STRUCTURAL ENGINEER.
- TEST PRESSURE FOR WATER MAINS = 100 PSI, THRUST RESTRAINTS AND RISER SHALL BE DESIGNED FOR 1.5 TIMES THE MAXIMUM TEST PRESSURE.
- ALL REINFORCING BARS SHALL BE EPOXY COATED, ASTM A615, GRADE 60.
- CONCRETE STRENGTH SHALL MEET OR EXCEED 5000 PSI AT 28 DAYS.
- EXTERIOR SURFACES OF RISER SHAFT SHALL BE WATERPROOFED FOR WATER/TIGHT STRUCTURE.
- CONCRETE COVER:
 - CONCRETE PLACED AGAINST EARTH - 3"
 - CONCRETE IN CONTACT WITH EARTH OR WATER - 2"
- SOFT CLAYS OCCUR IN THE SOIL PROFILE FOR THE BORINGS IN THIS AREA. CONTRACTOR SHALL REVIEW GEOTECHNICAL REPORT AND BORING LOGS IN HIS SELECTION OF METHODS TO SUPPORT THE EXCAVATION AND FOR THE DESIGN OF THE RISER SHAFT AND THRUST RESTRAINTS. SURFACE AND SUBSURFACE WATER SHALL NOT BE PERMITTED TO ENTER THE EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) AND THE VARIOUS INFRASTRUCTURE DEPARTMENTS OF THE CITY OF CHICAGO, INCLUDING, BUT NOT LIMITED TO, THE CHICAGO DEPARTMENT OF TRANSPORTATION (CDOT), THE OFFICE OF UNDERGROUND COORDINATION (OUC) AND THE DEPARTMENT OF WATER MANAGEMENT (IDWM).
- DURING CONSTRUCTION, SOFT CLAY IS EXPECTED AT THE BASE OF THE EXCAVATION. THE FOUNDATION SOIL MAY BECOME UNSTABLE DURING CONSTRUCTION AND THE CONTRACTOR MAY REQUIRE A WORKING PLATFORM TO PROPERLY CONSTRUCT THE PRECAST RISER SHAFT. THE NEED FOR A WORKING PLATFORM TO PROPERLY CONSTRUCT THE PRECAST RISER SHAFT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER AND SHALL BE CONSIDERED INCLUDED WITHIN THE COST OF THE PRECAST CONCRETE RISER.
- EXACT LOCATIONS OF EXISTING WATER MAINS AND EXISTING BELOW GRADE STRUCTURES AND UTILITIES SHALL BE DETERMINED IN THE FIELD PRIOR TO EXCAVATION FOR WATER MAINS. ANY CONFLICTS WITH EXISTING STRUCTURES AND UTILITIES DUE TO FIELD CONDITIONS ENCOUNTERED THAT WILL IMPACT CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, SO AS NOT TO DELAY CONSTRUCTION, ALONG WITH DETAILED LOCATIONS OF CONFLICTING STRUCTURES AND UTILITIES AND SUGGESTED SOLUTIONS TO RESOLVE THE CONFLICT FOR ENGINEER REVIEW AND APPROVAL. ANY CHANGES REQUIRED AS A RESULT OF FIELD CONDITIONS ENCOUNTERED SHALL BE CONSIDERED INCLUDED WITHIN THE COST OF THE RESPECTIVE PAY ITEM.
- CONTRACTOR SHALL PROTECT EXISTING BURIED AND ABOVE GROUND STRUCTURES AND UTILITIES THAT ARE TO REMAIN DURING CONSTRUCTION OF THE WATER MAIN AND RISER SHAFT. THE COST OF SUCH PROTECTION SHALL BE INCLUDED WITHIN THE COST OF THE 16-INCH WATER MAIN RELOCATION PAY ITEM.
- ALL WORK TO CONFORM TO IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, UNLESS OTHERWISE SPECIFIED. USE MORE STRINGENT REQUIREMENT WHERE REQUIREMENTS CONFLICT.



DESIGNED BY: AAG
 USER NAME: C:\aaron\g
 PLOT SCALE: 1/8"=1'-0"
 PLOT DATE: 4/24/2014

DESIGNED - AAG
 DRAWN - HMC
 CHECKED - RRB
 DATE - 04/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

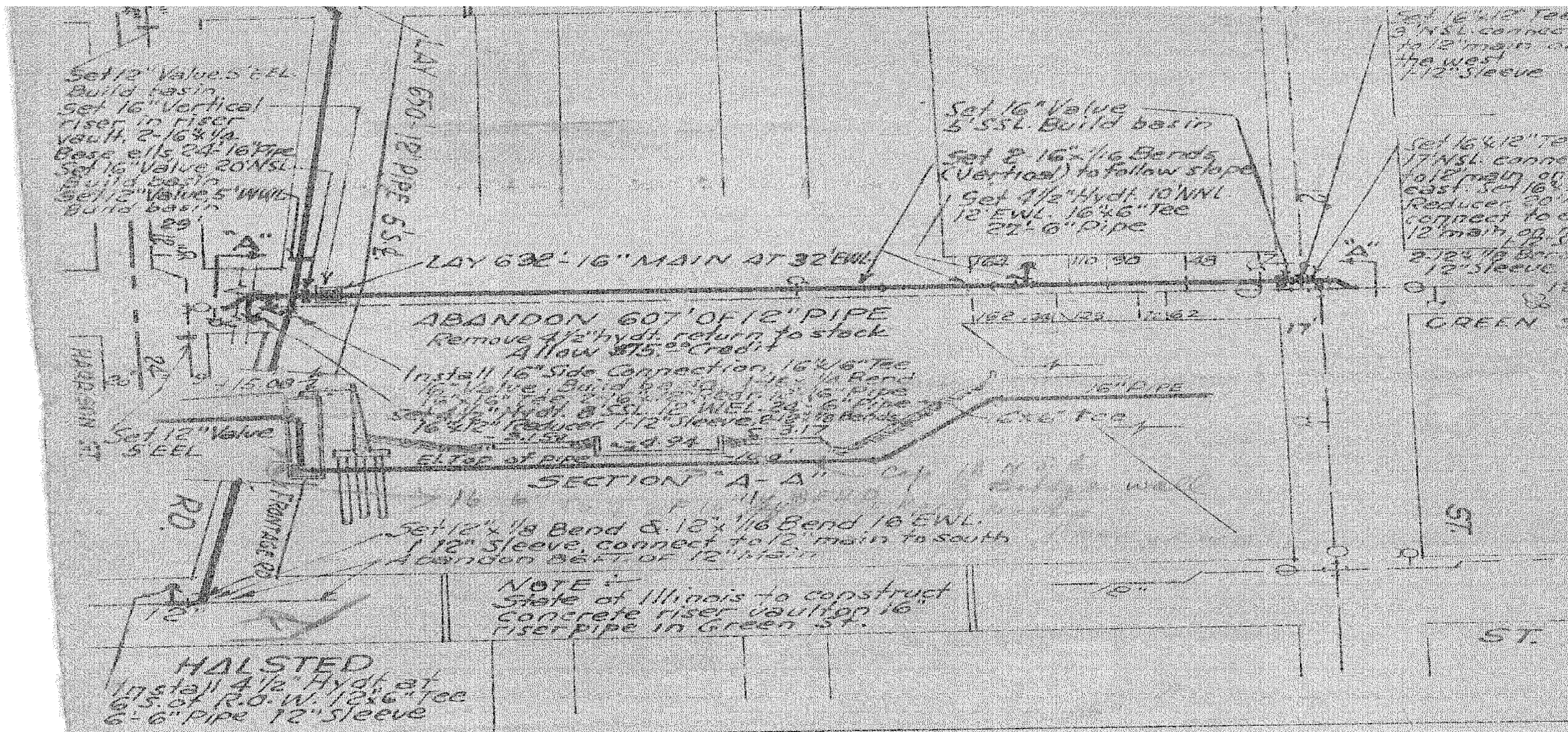
**WATER MAIN RELOCATION
 RISER SHAFT**

SCALE: SHEET OF SHEETS STA. TO STA.

DATE	SECTION	COUNTY	TOTAL SHEET
02/04/2010	2013-010R	COOK	741/246
			CONTRACT NO. 60W28

ILLINOIS, AID PROJECT

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Set 12" Valve 5' EEL
Build basin
Set 16" Vertical riser in riser vault. 2-16x1/4
Base eils 24'-16" pipe
Set 16" Valve 20'NSL
Build basin
Set 12" Valve 5' WML
Build basin

Set 16" Valve 5' SSL Build basin
Set 2 16x1/8 Bends (Vertical) to follow slope
Set 4 1/2" Hydt. 10' NNL
12' EWL. 16x6" Tee
22'-6" Pipe

Set 16x1/8 Tee
3' NSL connect to 12" main on the west
12" sleeve

Set 16x1/8 Tee
17' NSL connect to 12" main on east. Set 16" Reducer 20' connect to 12" main on 12' NSL
2-12x1/8 Bends
12" sleeve

ABANDON 607' OF 12" PIPE
Remove 4 1/2" hydt. return to stock
Allow \$75.00 Credit

Install 16" Side Connection, 16x1/8 Tee
16" Valve, Build Basin, 16x1/8 Bend
16x1/8 Tee, 2-16x1/8 Bends, 16" Pipe
Set 4 1/2" Hydt. 8' SSL, 12' WEL, 24'-6" pipe
16x1/8 Reducer, 12" sleeve, 2-12x1/8 Bends

SECTION "A-A"

Set 12x1/8 Bend & 12x1/8 Bend 16' EWL.
12" sleeve, connect to 12" main to south
Abandon 862' of 12" main

NOTE:
State of Illinois to construct concrete riser vault on 16" riser pipe in Green St.

HALSTED
Install 4 1/2" Hydt at 6' S of R.O. W. 12x6" Tee
6'-6" Pipe 12" sleeve

FOR INFORMATION ONLY



D160W28-sht-WM-10.dgn
USER NAME = CooperM2
PLOT SCALE = 20.0000' / in.
PLOT DATE = 3/23/2014

DESIGNED - HHC
DRAWN - HHC
CHECKED - RBB
DATE - 03/28/14

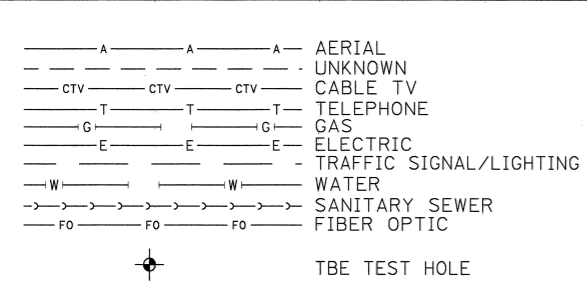
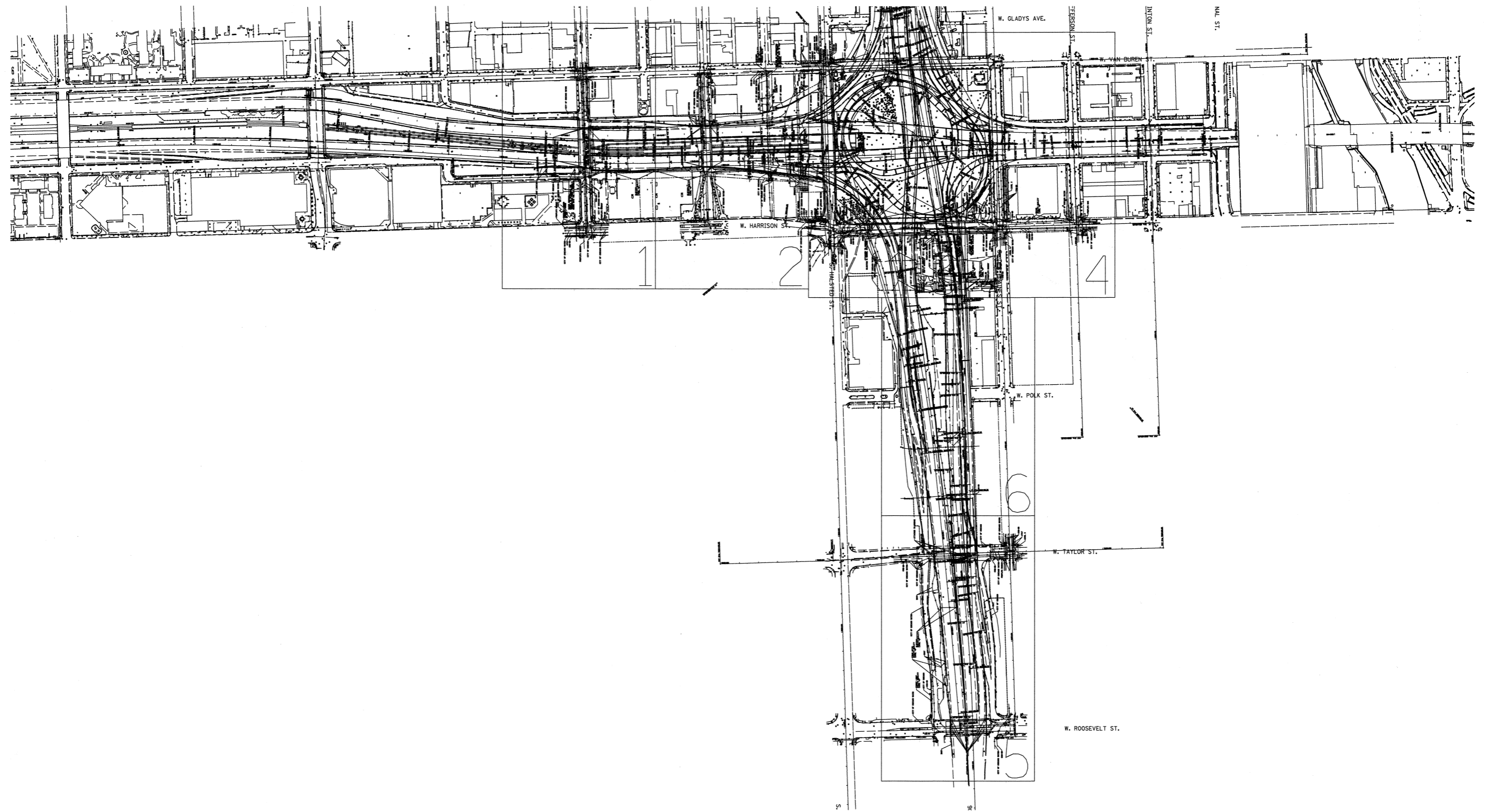
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION
EXISTING INFORMATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	247
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

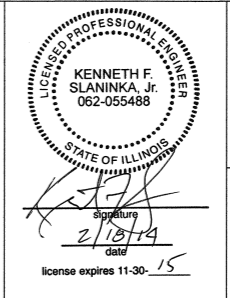


UTILITY OWNERS	
AT&T = TELEPHONE	COM-ED = ELECTRIC
CITY OF CHICAGO = ELECTRIC	CITY OF CHICAGO = SANITARY SEWER
CITY OF CHICAGO WATER = WATER	IDOT LIGHTING= ELECTRIC
IDOT = FIBER OPTIC	LEVEL 3 = FIBER OPTIC
MCI = FIBER OPTIC	PEOPLE'S ENERGY = GAS

NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

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TBE Job No. IL09510531
SUE Plan Page: Cover

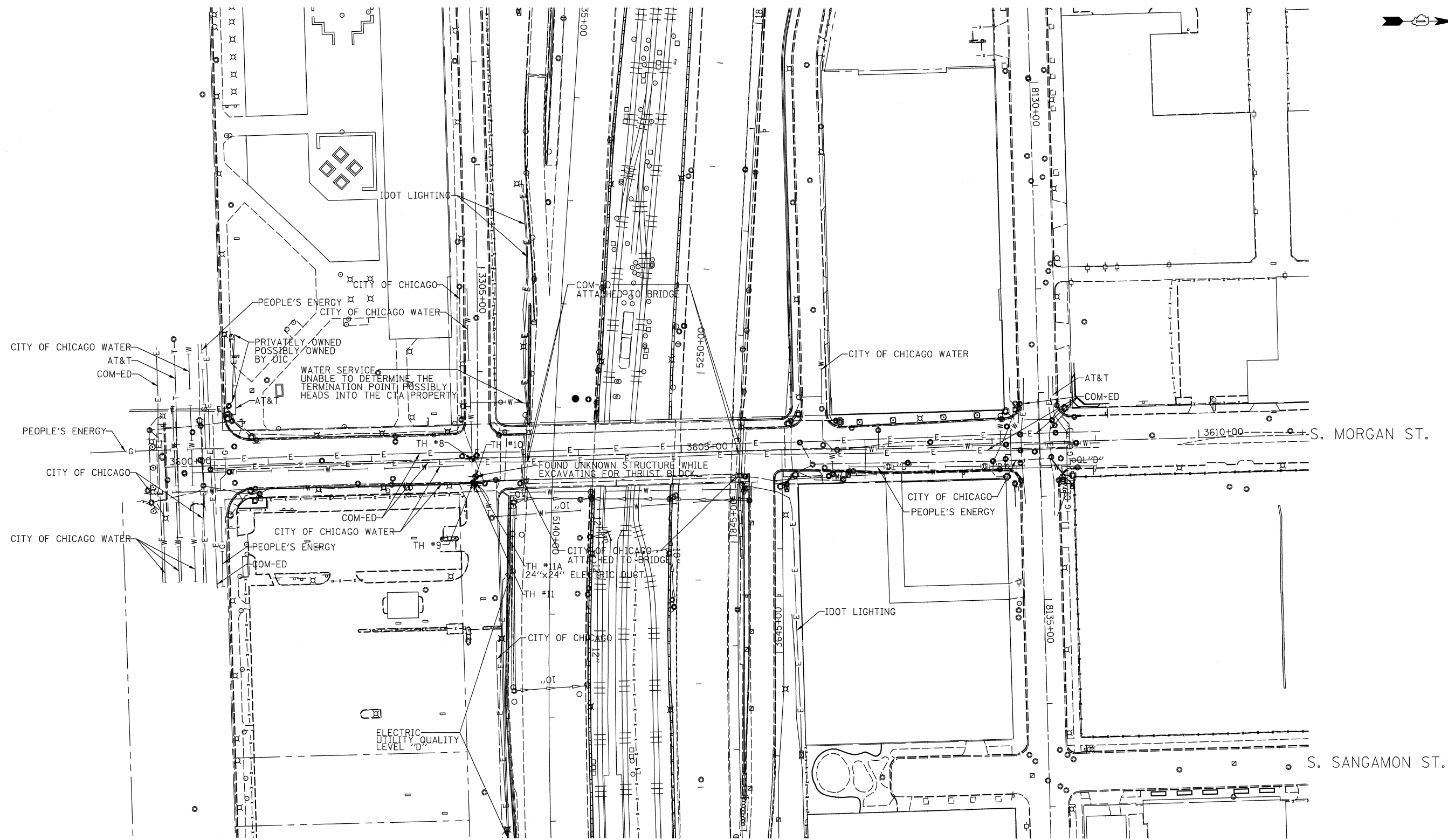
Utility Quality Level "A": Visually Verified Test Hole
 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	EG	REVISED	
DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	1/27/14	REVISED	

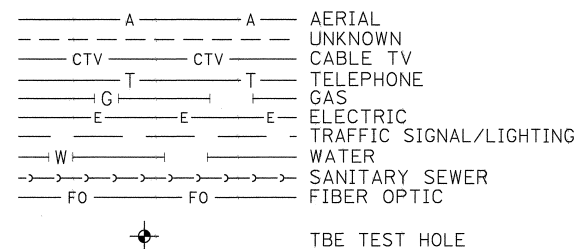
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-941-901-290 (Circle Interchange)
Chicago, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	249
Contract No. 60W28				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No. P-91-259-12				



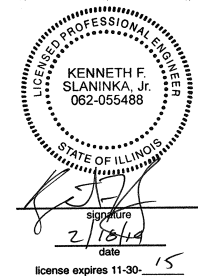
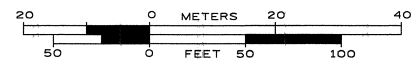
MATCH SHEET 2



UTILITY OWNERS
 AT&T = TELEPHONE
 COM-ED = ELECTRIC
 CITY OF CHICAGO = ELECTRIC
 CITY OF CHICAGO WATER = WATER
 IDOT LIGHTING = ELECTRIC
 PEOPLE'S ENERGY = GAS

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TBE Job No. IL09510531
 SUE Plan Page: 1 of 6

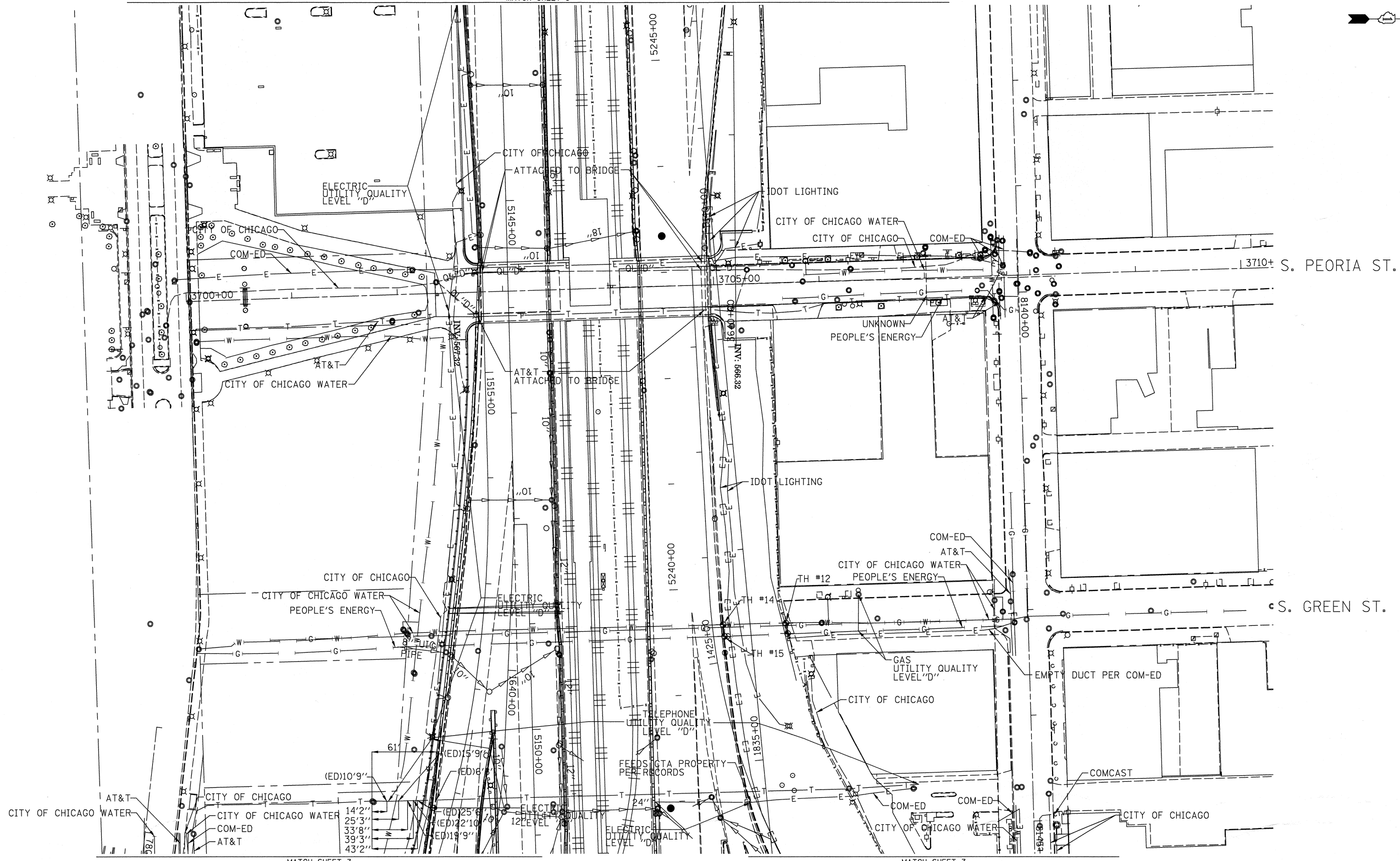
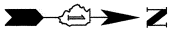
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 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	EG	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	1/27/17	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

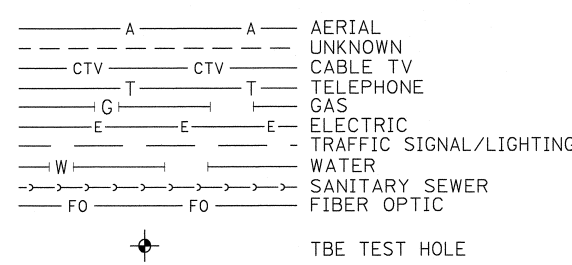
I-941-901-290 (Circle Interchange)
 Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	250
Contract No. 60W28				
FED. ROAD DIST. NO. - ILLINOIS IDOT Project No. P-91-259-12				



MATCH SHEET 3

MATCH SHEET 3

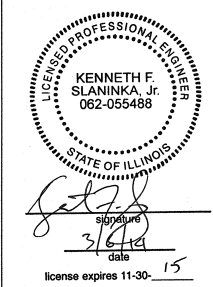
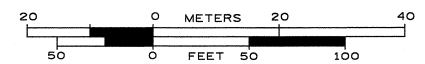


UTILITY OWNERS
 AT&T = TELEPHONE
 COM-ED = ELECTRIC
 CITY OF CHICAGO = ELECTRIC
 CITY OF CHICAGO WATER = WATER
 IDOT LIGHTING = ELECTRIC
 PEOPLE'S ENERGY = GAS

NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

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TBE Job No. IL09510531, 563
 SUE Plan Page: 2 of 6

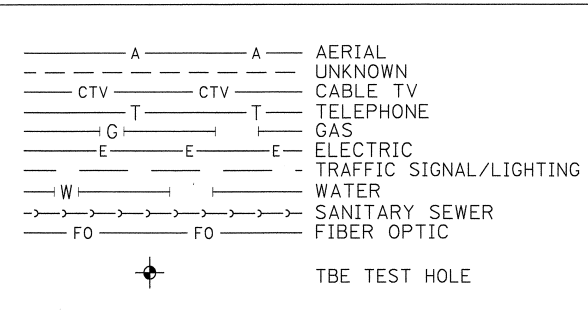
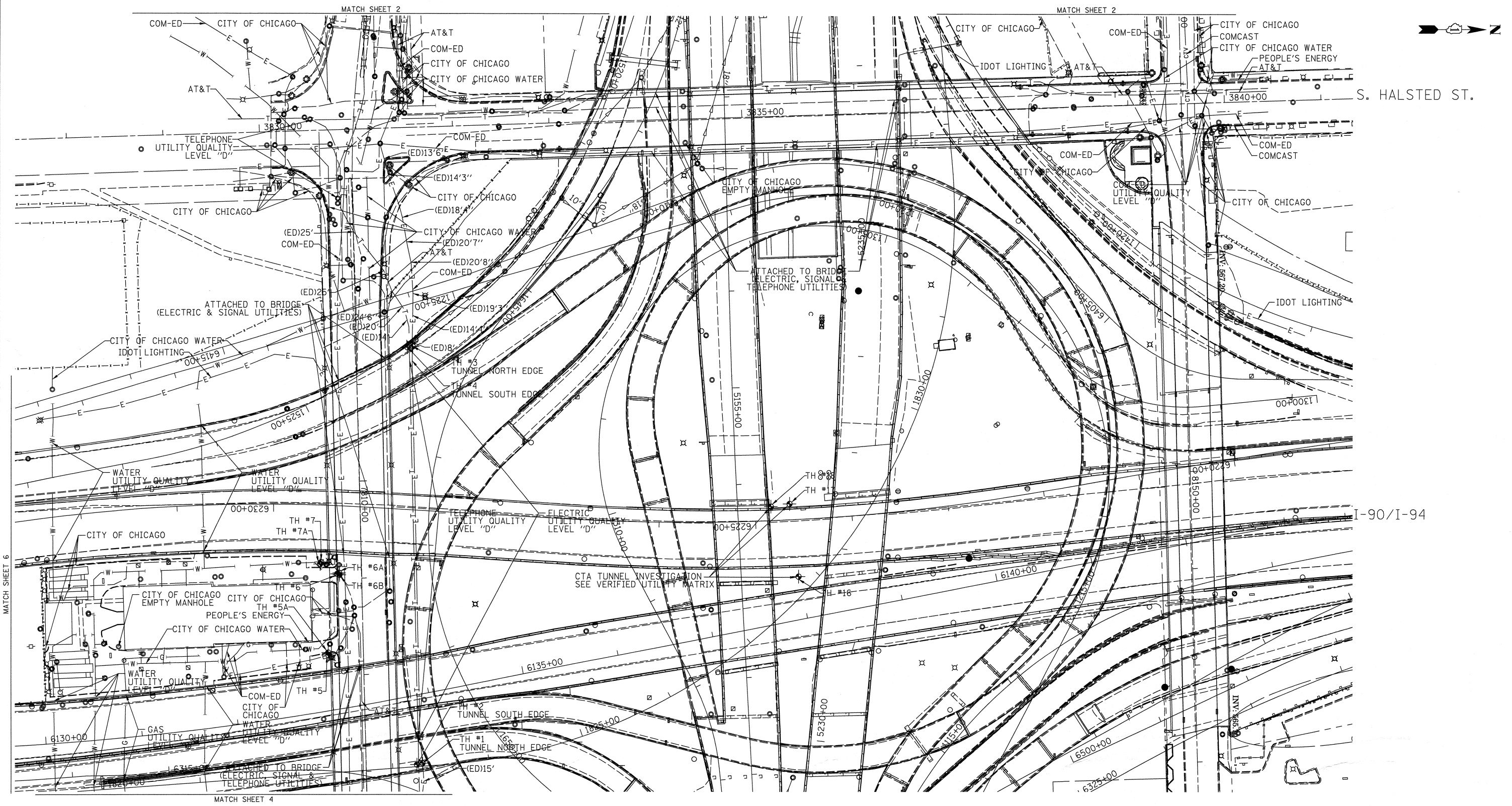
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 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	EG	REVISED
DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	2/28/14	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94I-90I-290 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	251
FED. ROAD DIST. NO. [ILLINOIS] IDOT Project No. P-91-259-12			Contract No. 60W28	

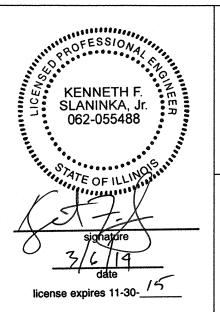


UTILITY OWNERS	
AT&T	= TELEPHONE
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CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
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TBE Job No. IL09510531, 563
SUE Plan Page: 3 of 6

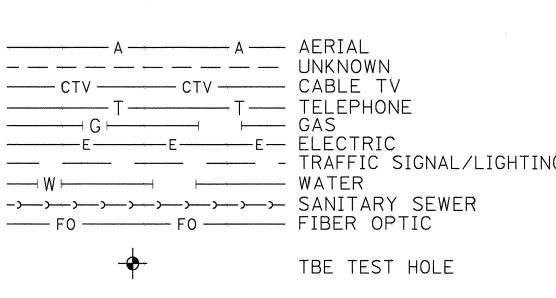
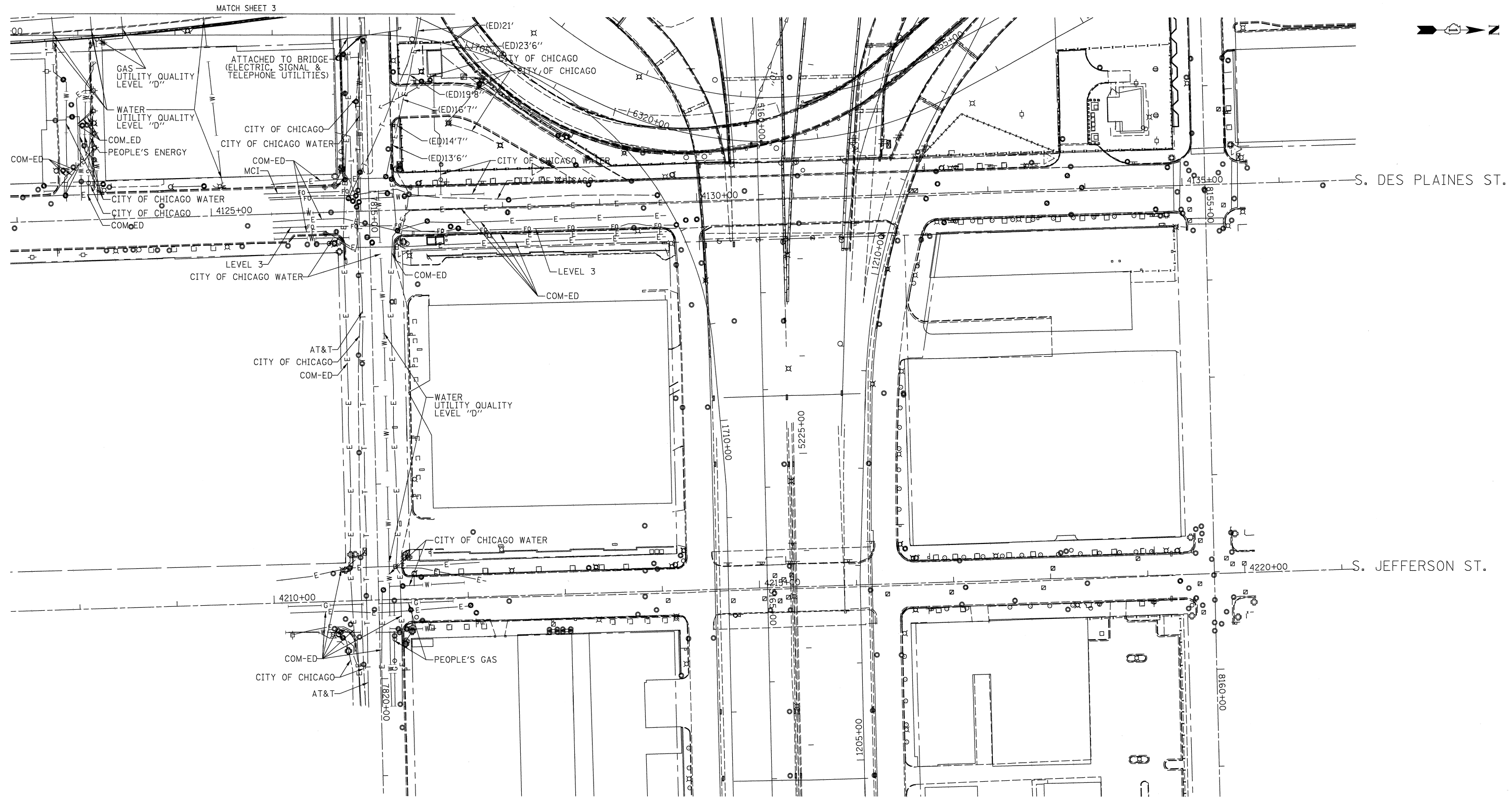
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 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED - 3/05/14	COORDINATES
DRAWN	SRK	REVISED	
CHECKED	KFS	REVISED	
DATE	2/28/14	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94-I-90 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	252
Contract No. 60W28				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No. P-91-259-12				



UTILITY OWNERS

AT&T = TELEPHONE
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 MCI = FIBER OPTIC
 PEOPLE'S ENERGY = GAS

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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

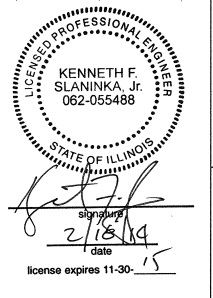
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20 0 METERS 20 40
 50 0 FEET 50 100



Cardno TBE

Dynasty Group
 Engineers & Surveyors

TBE Job No. IL09510531
 SUE Plan Page: 4 of 6

Utility Quality Level "A": Visually Verified Test Hole
 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

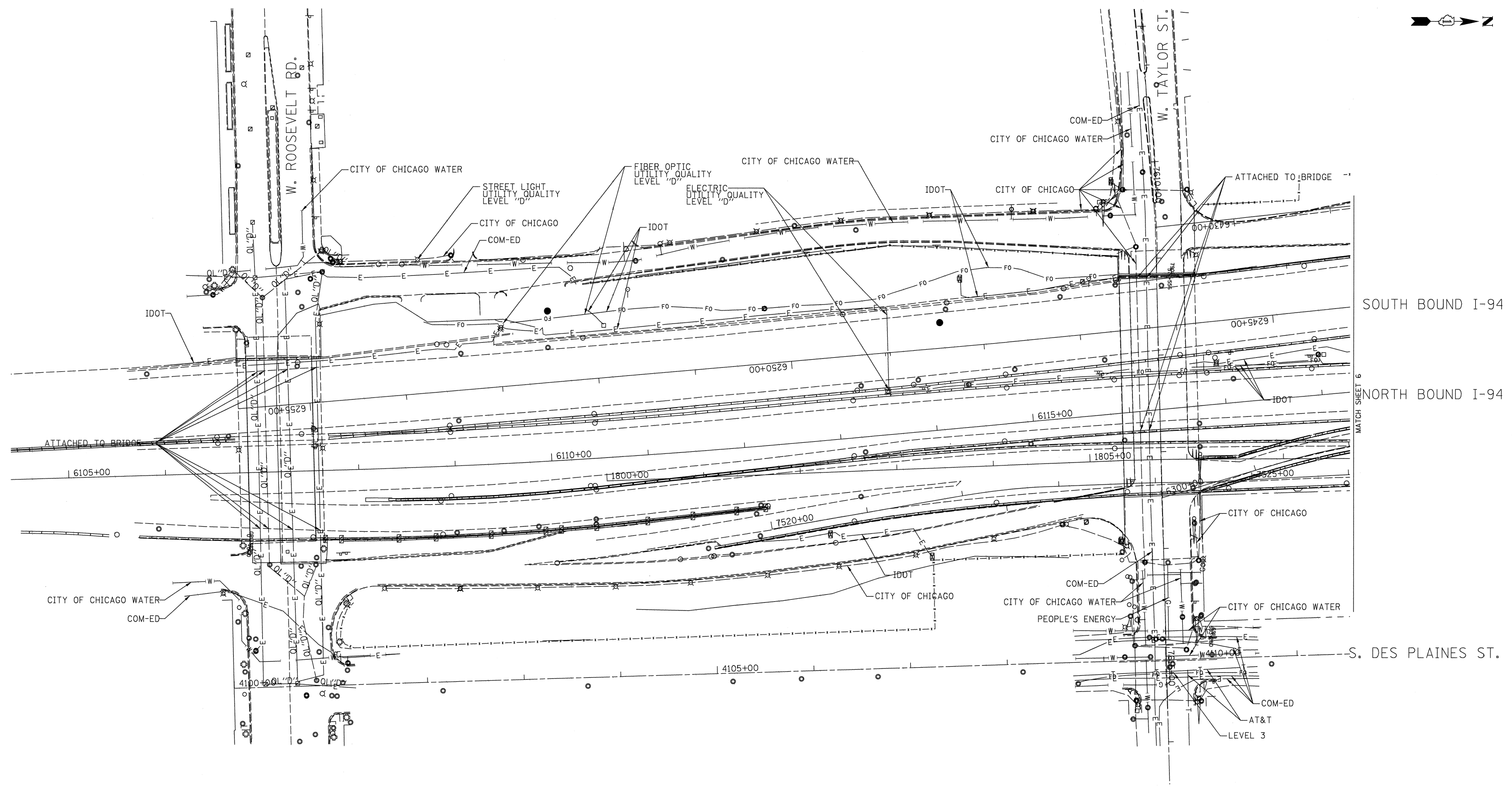
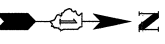
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-941-901-290 (Circle Interchange)
Chicago, Illinois

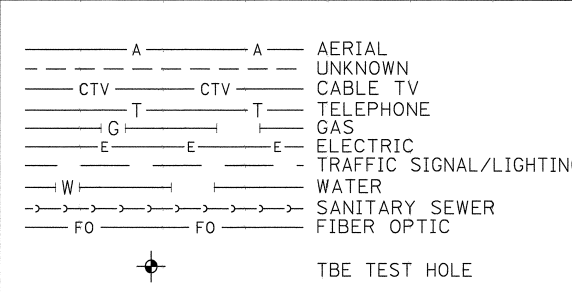
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	253

Contract No. 60W28
 FED. ROAD DIST. No. - ILLINOIS IDOT Project No. P-91-259-12



SOUTH BOUND I-94
NORTH BOUND I-94

MATCH SHEET 6

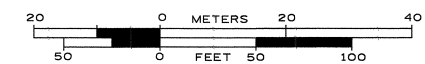


UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
IDOT LIGHTING	= ELECTRIC
IDOT	= FIBER OPTIC
LEVEL 3	= FIBER OPTIC
PEOPLE'S ENERGY	= GAS

NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

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TBE Job No. IL09510531
SUE Plan Page: 5 of 6

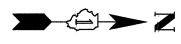
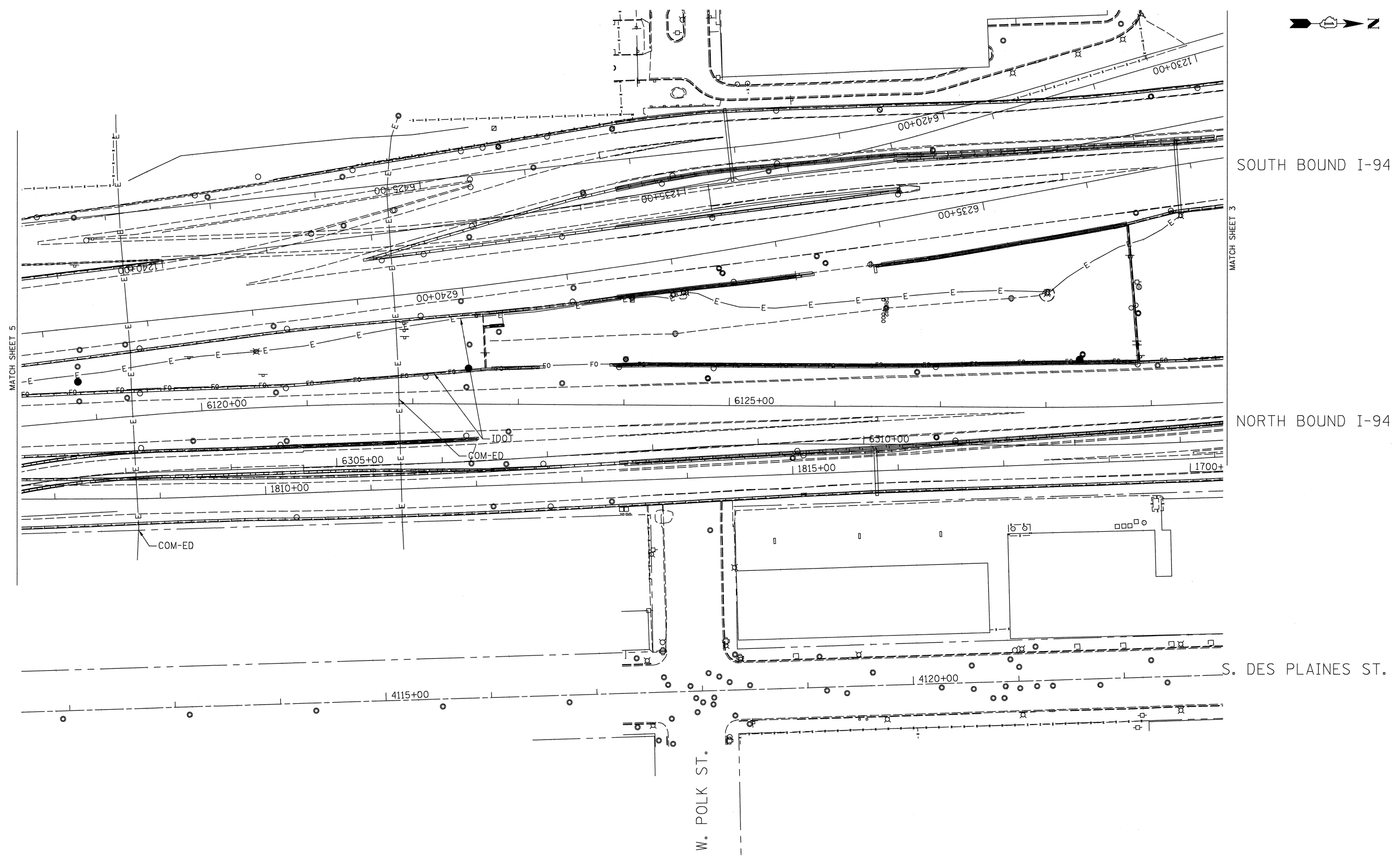
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Utility Quality Level "C" : Research with Survey
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DRAWN	SRK	REVISED
CHECKED	KFS	REVISED
DATE	1/27/17	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94-901-290 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	254
Contract No. 60W28				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No. P-91-259-12				



MATCH SHEET 5

MATCH SHEET 3

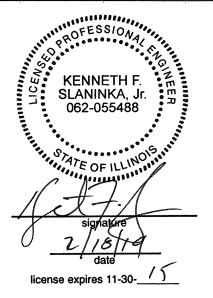
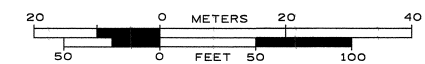
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— CTV — CTV —	UNKNOWN
— T — T —	CABLE TV
— G — G —	TELEPHONE
— E — E —	GAS
— E — E —	ELECTRIC
— W — W —	TRAFFIC SIGNAL/LIGHTING
—>—>—>—>—>	WATER
— FO — FO —	SANITARY SEWER
— FO — FO —	FIBER OPTIC
⊙	TBE TEST HOLE

UTILITY OWNERS	
COM-ED	= ELECTRIC
IDOT	LIGHTING= ELECTRIC
IDOT	= FIBER OPTIC

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TBE Job No. IL09510531
SUE Plan Page: 6 of 6

Utility Quality Level "A" : Visually Verified Test Hole
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Utility Quality Level "D" : Records Research

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CHECKED	KFS	REVISED	
DATE	1/27/17	REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-94-901-290 (Circle Interchange)
Chicago, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	255
Contract No. 60W28				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No. P-91-259-12				

PAVEMENT MARKING SCHEDULE

SHEET	STATION	TO	STATION	PAVEMENT MARKING REMOVAL	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	EPOXY PAVEMENT MARKING - LINE 4"	EPOXY PAVEMENT MARKING - LINE 5"	EPOXY PAVEMENT MARKING - LINE 6"	EPOXY PAVEMENT MARKING - LINE 8"	EPOXY PAVEMENT MARKING - LINE 12"	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING TAPE, TYPE III 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	
				SQ FT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	FOOT	FOOT	FOOT
1	--		133+00.00	5955									247	984			26	178					
2	133+00.00		159+00.00	5200									640	1149			66	196					
3	--		183+00.00	6403		1382					23	221	600	3835	291		60	180					
4	183+00.00		1802+00.00	6058		3878	735		1151	523		24	3			74	2	78					
5	1802+00.00		1814+00.00	2820		3948	1052		1572	234						106		62					
6	1814+00.00		1824+00.00	2227		4958	615	50	2614	508		1092	136			62	14	50	426				
7	1824+00.00		1833+00.00	859		6365	1096	180	270			1800	225			110	24	106					
8	1833+00.00		1841+00.00			6118	592		461	564		1048	131			46	14	40		1398	576	479	
9	1841+00.00		--		35	4889	777		1993	430						8		20		143	143	75	
10	17+00.00		--			2831	375									38		50					
11	359+00.00		--			1201	363									38		30					
ALLOWANCE				2952	4	3557	561	23	806	226	2	419	198	597	29	48	21	99	43	154.1	71.9	55.4	
TOTALS				32474	39	39127	6166	253	8867	2485	25	4604	2180	6565	320	530	227	1089	469	1612.9	774.4	554	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING SCHEDULE

SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	257
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
2. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
3. ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
6. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
7. PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
8. MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
9. SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

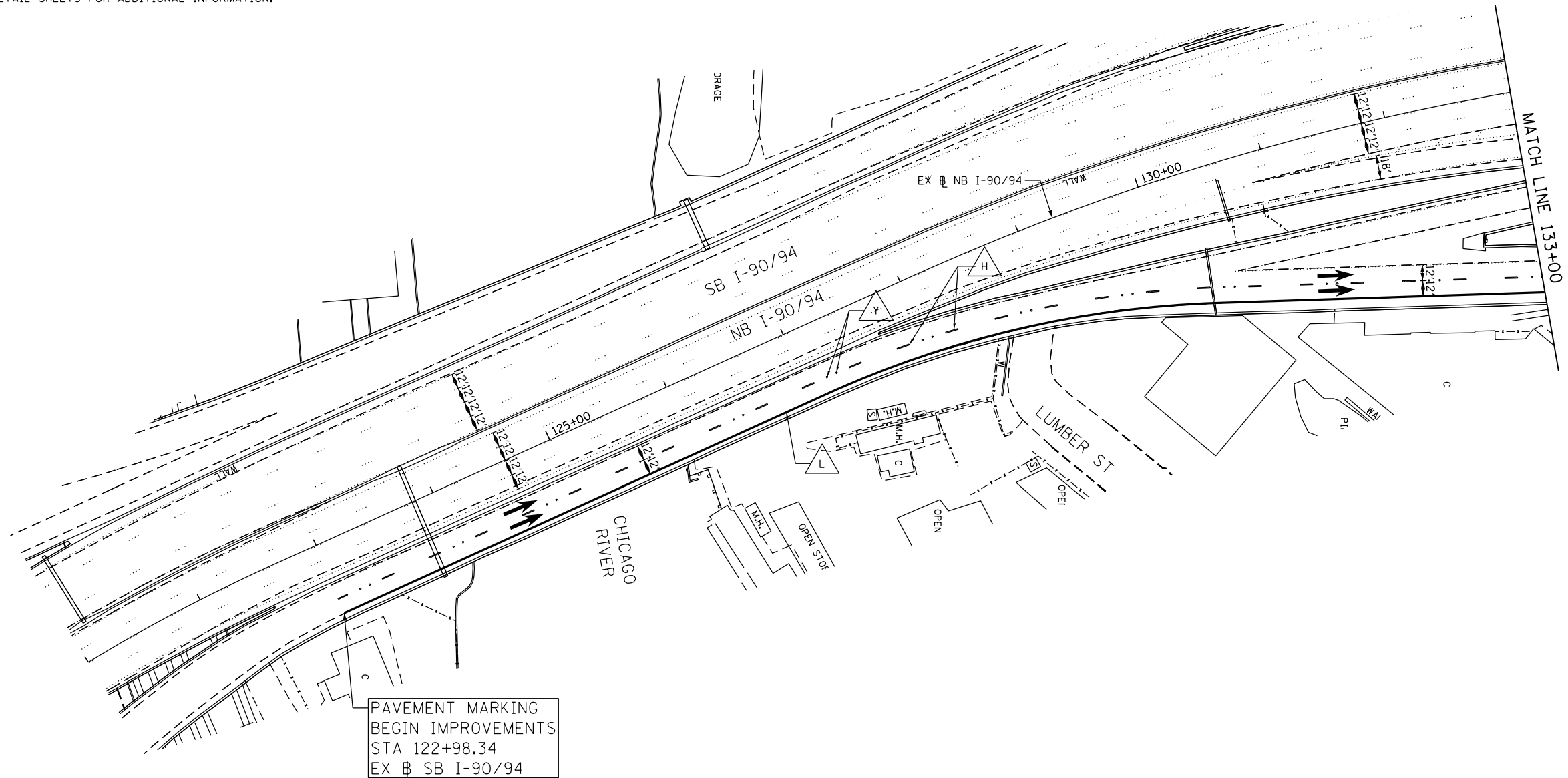
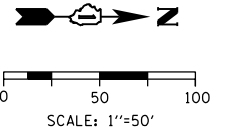
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PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- I - 6" WHITE SOLID LINE
- J - 6" WHITE (2' DASH, 6' SKIP)
- K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- L - 8" WHITE EDGE LINE
- M - 8" WHITE DOTTED LANE LINE, 3' DASH, 9' SKIP
- N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	258
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
- THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
- MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
- SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

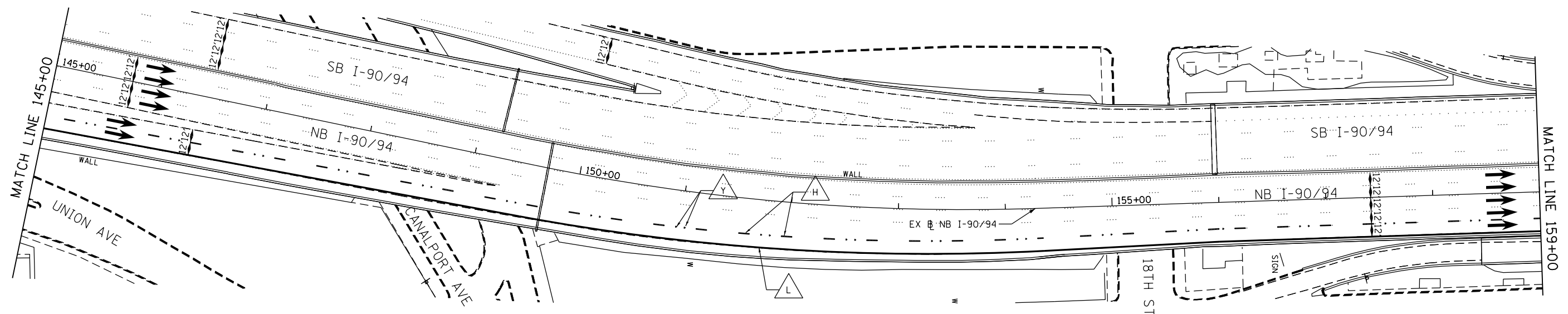
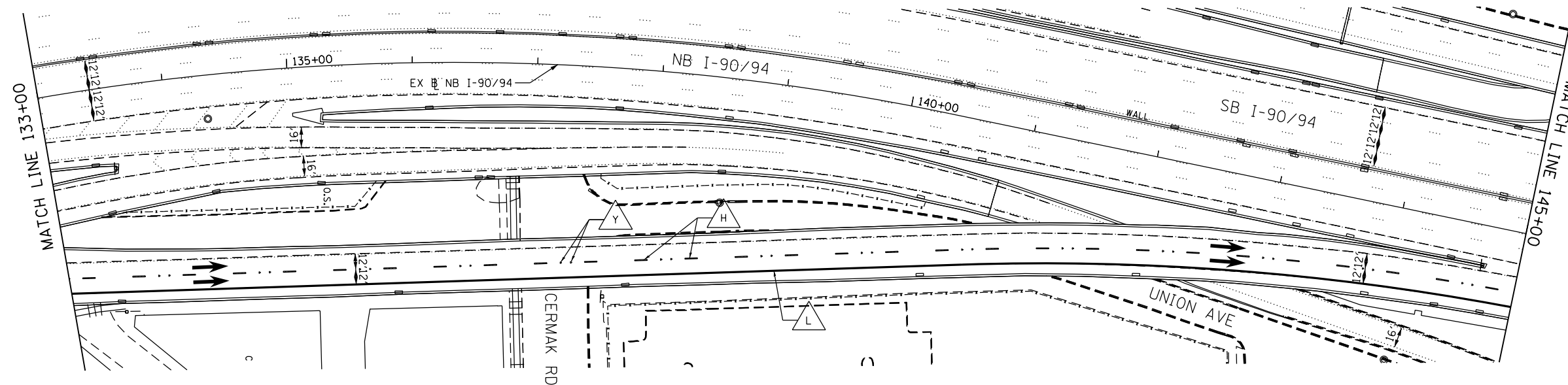
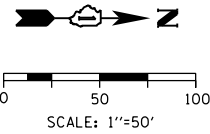
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
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- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
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- J - 6" WHITE (2' DASH, 6' SKIP)
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	259
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING NOTES

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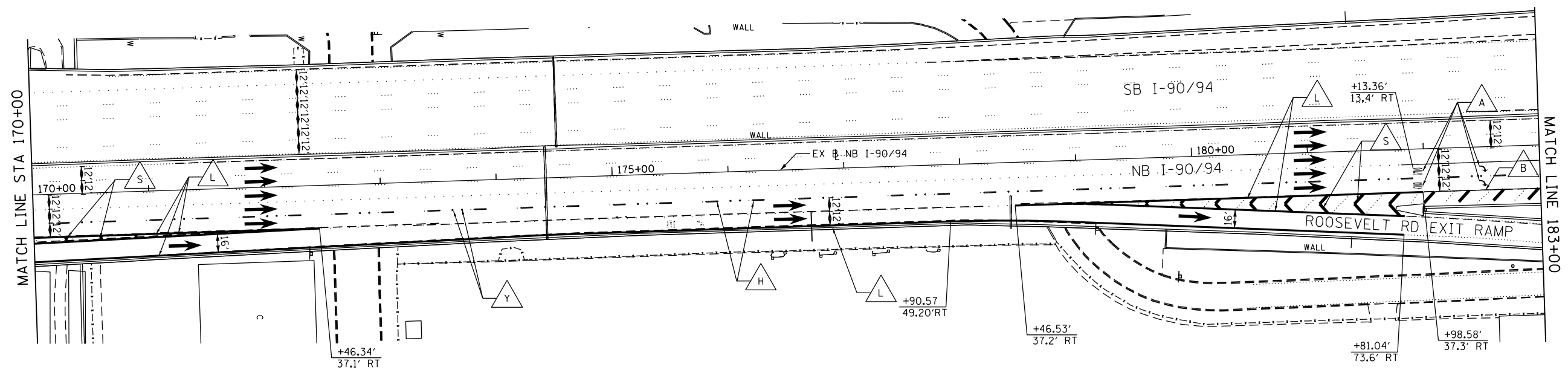
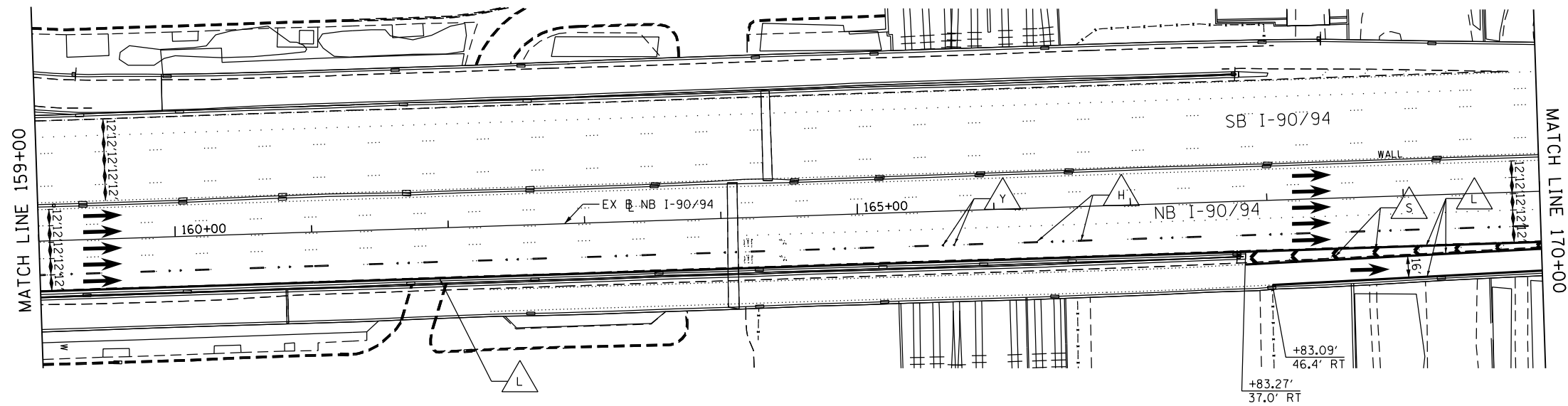
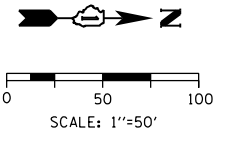
LEGEND

PAVEMENT MARKING MATERIAL

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- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 50' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 3 OF 11 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 260
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
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- THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
- MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
- SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

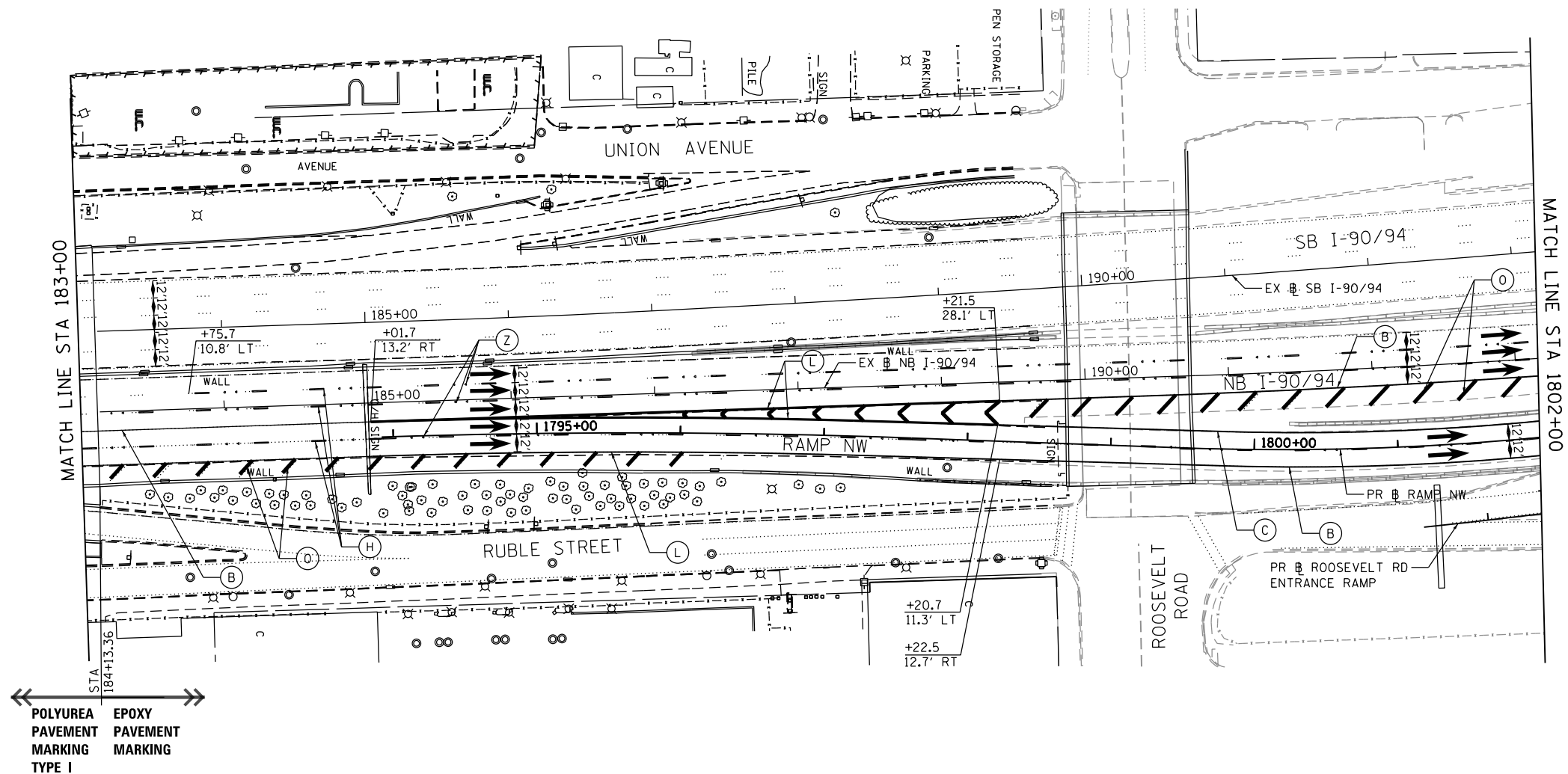
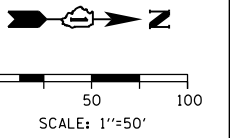
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- I - 6" WHITE SOLID LINE
- J - 6" WHITE (2' DASH, 6' SKIP)
- K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- L - 8" WHITE EDGE LINE
- M - 8" WHITE DOTTED LANE LINE, 3' DASH, 9' SKIP
- N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



←← POLYUREA PAVEMENT MARKING TYPE I EPOXY PAVEMENT MARKING →→

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	261
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
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- PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
- MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
- SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

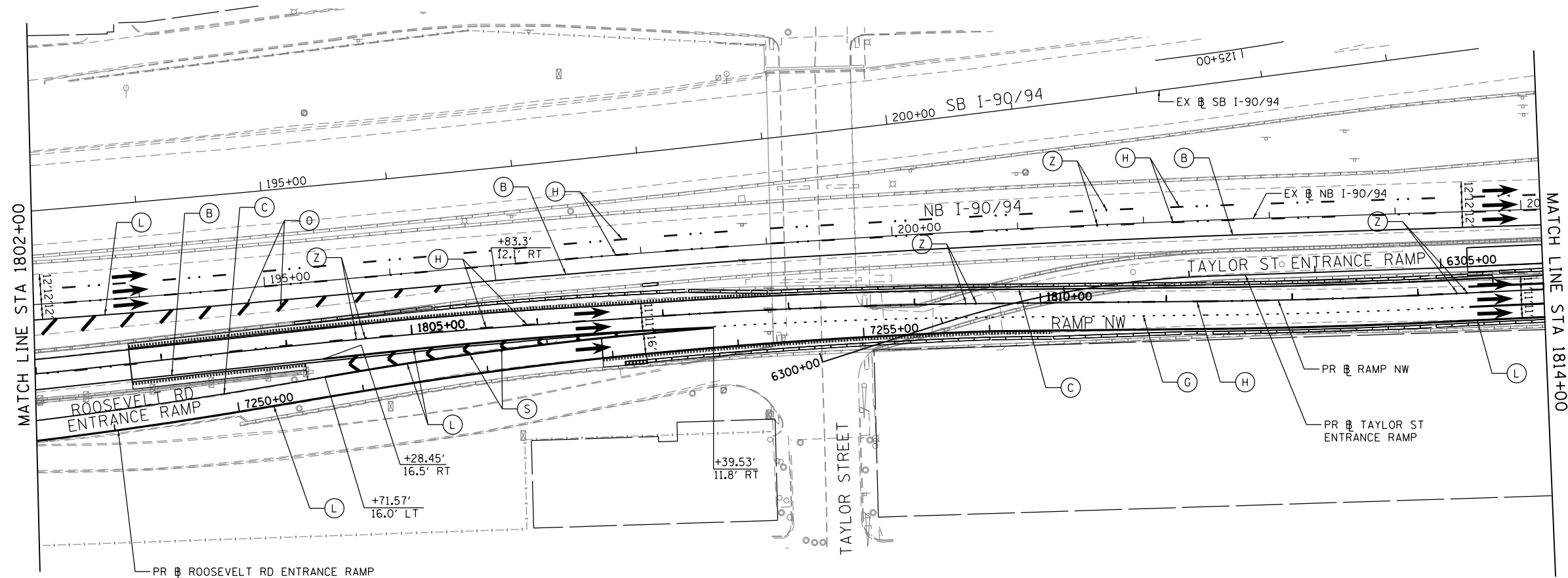
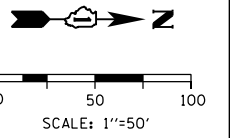
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- I - 6" WHITE SOLID LINE
- J - 6" WHITE (2' DASH, 6' SKIP)
- K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- L - 8" WHITE EDGE LINE
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- N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
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- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 5 OF 11 SHEETS STA. 1802+00 TO STA. 1814+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	262
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
2. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
3. ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
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7. PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
8. MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
9. SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

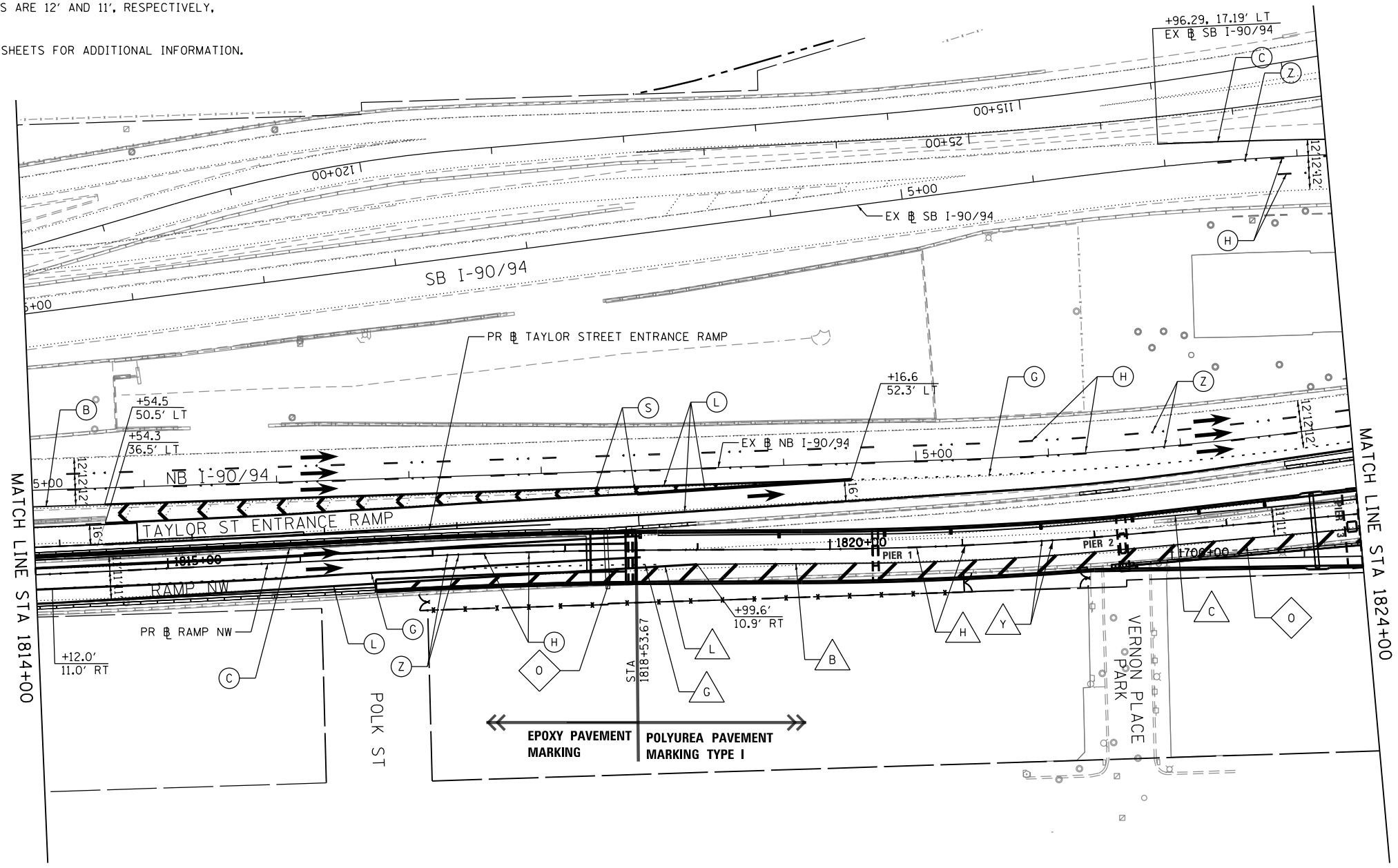
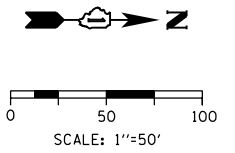
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
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- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
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- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 6 OF 11 SHEETS STA. 1814+00 TO STA. 1824+00

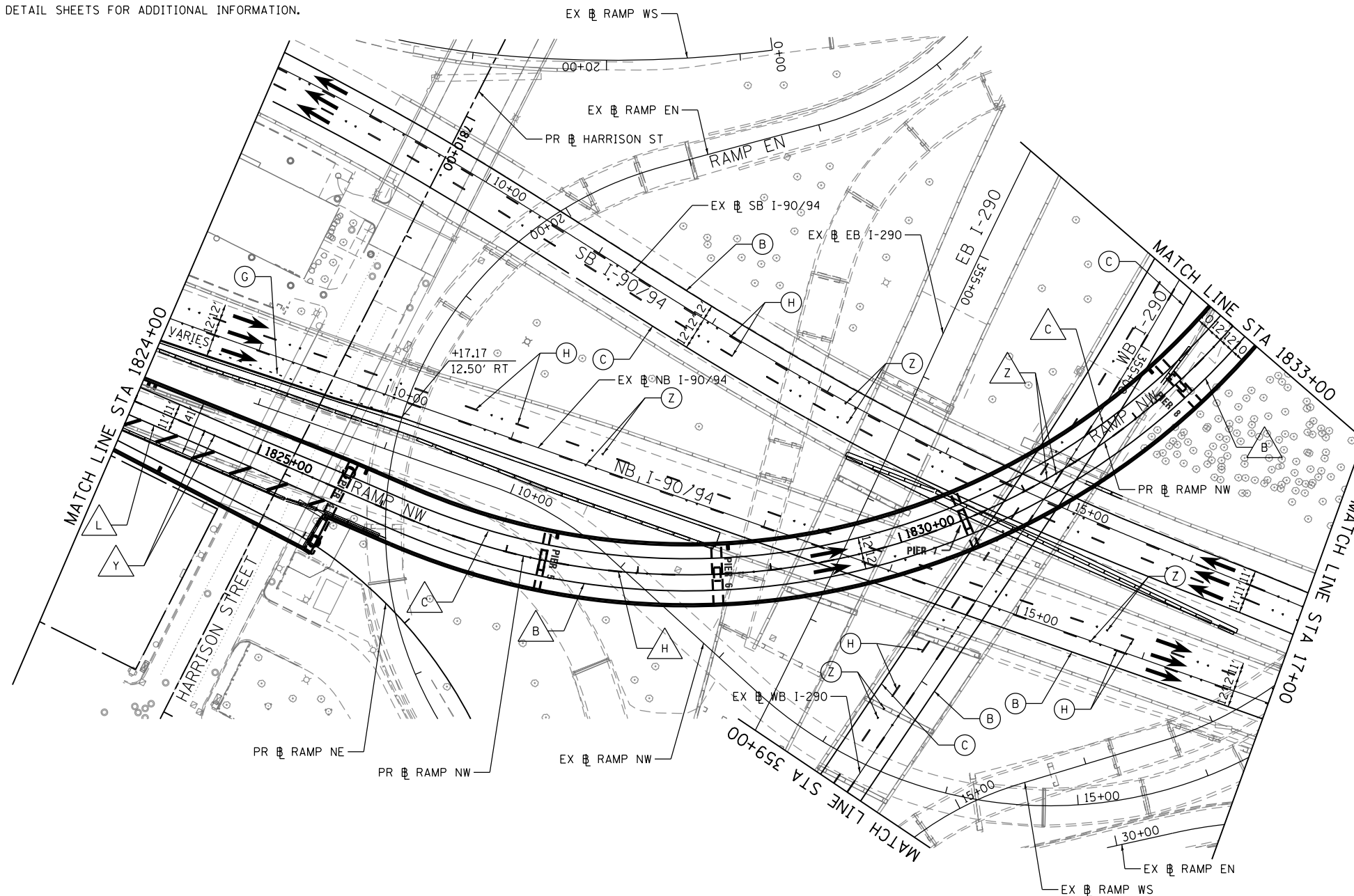
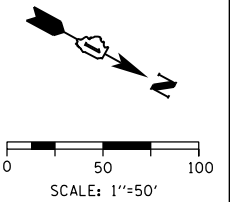
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	263
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

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- SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

PAVEMENT MARKING MATERIAL		PAVEMENT MARKING TYPE	
○	EPOXY PAVEMENT MARKING	A - LETTERS AND SYMBOLS (WHITE)	L - 8" WHITE EDGE LINE
◇	PAVEMENT MARKING TAPE, TYPE III	B - 4" WHITE EDGE LINE	M - 8" WHITE DOTTED LANE LINE, 3' DASH, 9' SKIP
□	THERMOPLASTIC PAVEMENT MARKING	C - 4" YELLOW LINE	N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
△	POLYUREA PAVEMENT MARKING TYPE I	D - 4" DOUBLE YELLOW CENTERLINE	O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
		E - 4" WHITE (6' DASH, 18' SKIP)	P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
		F - 4" YELLOW (6' DASH, 18' SKIP)	Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
		G - 4" WHITE (2' DASH, 6' SKIP)	R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
		H - 5" WHITE (10' DASH, 30' SKIP)	S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
		I - 6" WHITE SOLID LINE	T - 24" WHITE STOP BAR
		J - 6" WHITE (2' DASH, 6' SKIP)	U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
		K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS	Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
			Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 7 OF 11 SHEETS STA. 1824+00 TO STA. 1833+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	264
				CONTRACT NO. 60W28
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING NOTES

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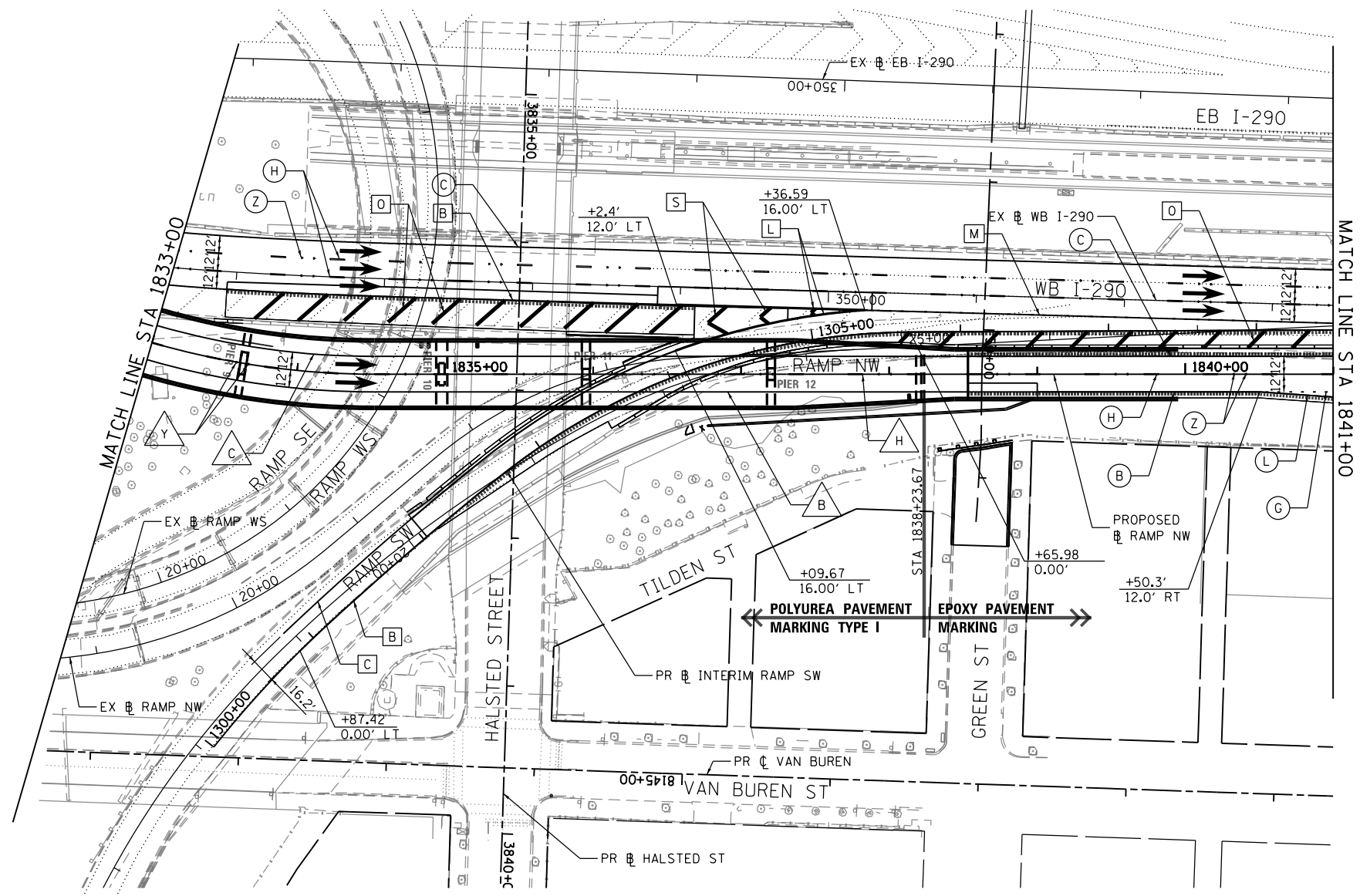
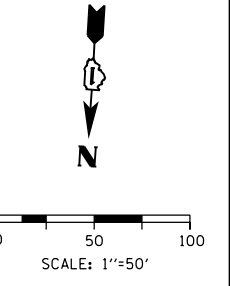
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 8 OF 11 SHEETS STA. 1833+00 TO STA. 1841+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 265
				CONTRACT NO. 60W28
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING NOTES

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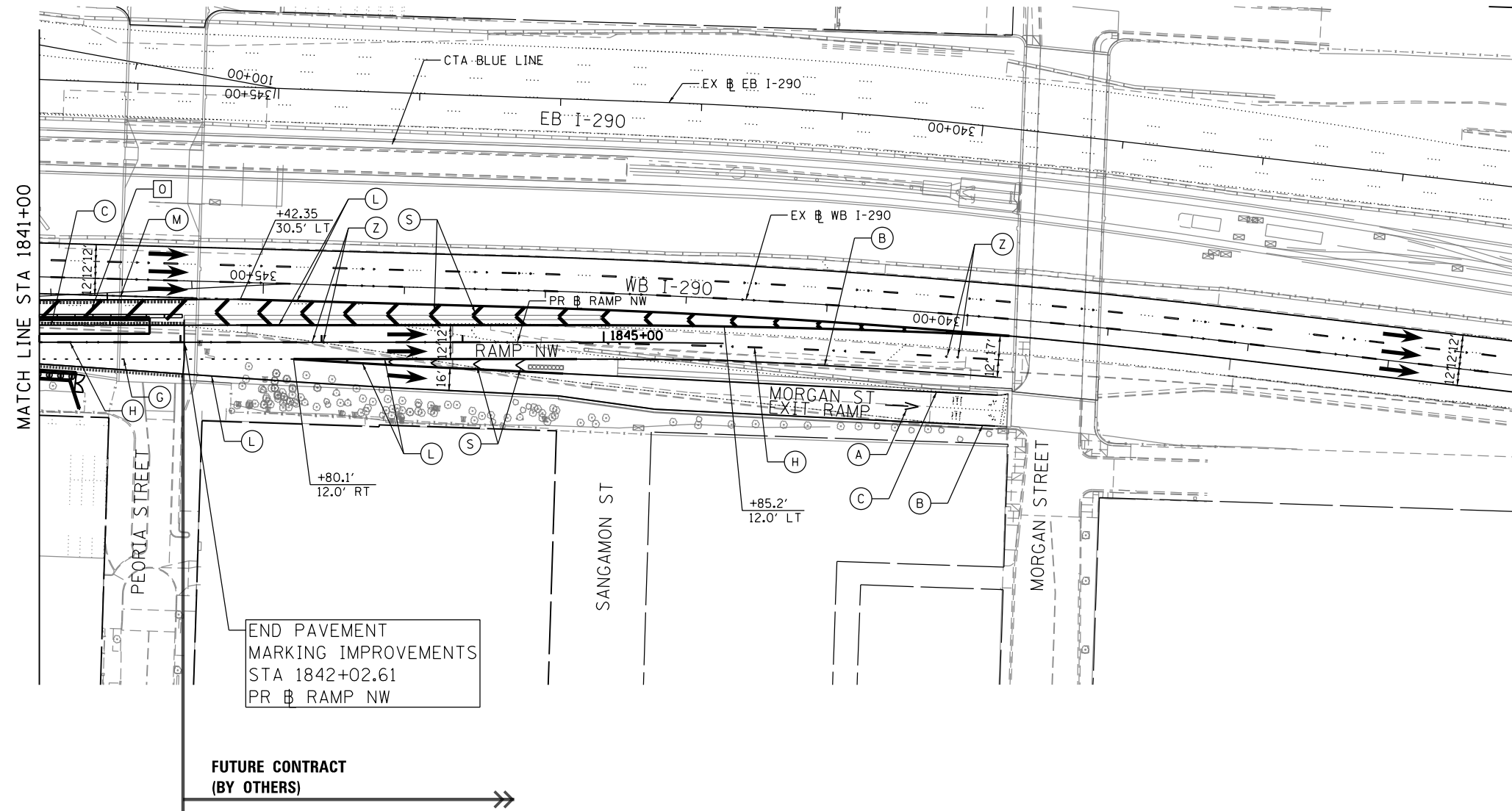
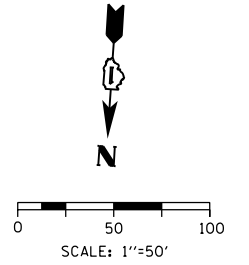
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- I - 6" WHITE SOLID LINE
- J - 6" WHITE (2' DASH, 6' SKIP)
- K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- L - 8" WHITE EDGE LINE
- M - 8" WHITE DOTTED LANE LINE, 3' DASH, 9' SKIP
- N - 12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 50' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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D160W28-SHT-Pmk-09.dgn
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 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

DESIGNED - OPS	REVISED -
DRAWN - NSA	REVISED -
CHECKED - KCF	REVISED -
DATE - 04/28/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 9 OF 11 SHEETS STA. 1841+00 TO STA. 1846+00

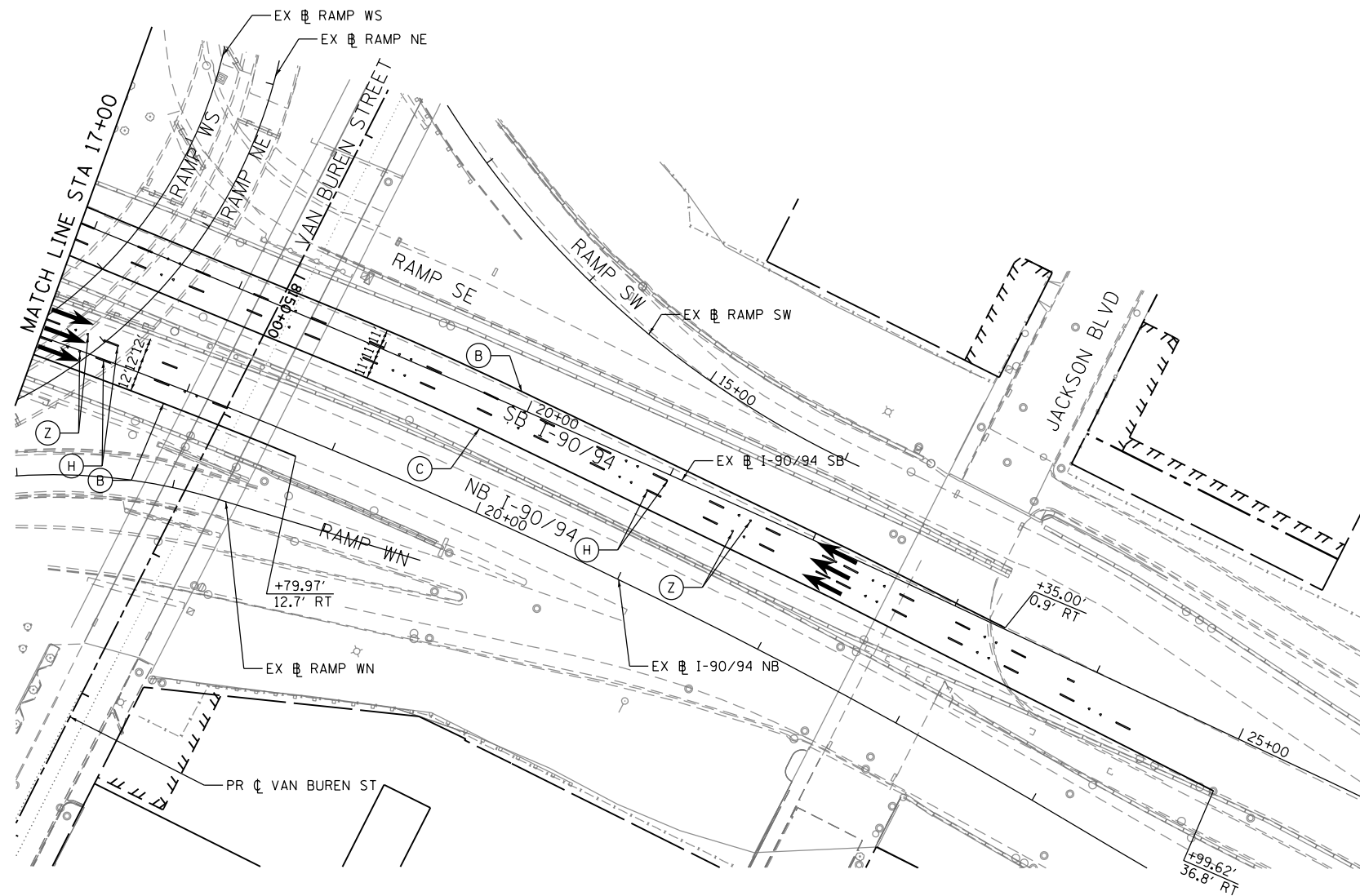
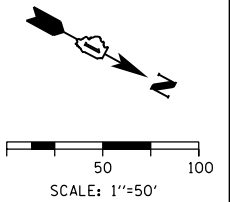
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	266
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING NOTES

- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
- ALL FINAL PAVEMENT MARKING SYMBOLS SHALL BE OF SMALL SIZE.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
- THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
- MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
- SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

PAVEMENT MARKING MATERIAL		PAVEMENT MARKING TYPE	
○	EPOXY PAVEMENT MARKING	A	LETTERS AND SYMBOLS (WHITE)
◇	PAVEMENT MARKING TAPE, TYPE III	B	4" WHITE EDGE LINE
□	THERMOPLASTIC PAVEMENT MARKING	C	4" YELLOW LINE
△	POLYUREA PAVEMENT MARKING TYPE I	D	4" DOUBLE YELLOW CENTERLINE
		E	4" WHITE (6' DASH, 18' SKIP)
		F	4" YELLOW (6' DASH, 18' SKIP)
		G	4" WHITE (2' DASH, 6' SKIP)
		H	5" WHITE (10' DASH, 30' SKIP)
		I	6" WHITE SOLID LINE
		J	6" WHITE (2' DASH, 6' SKIP)
		K	6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
		L	8" WHITE EDGE LINE
		M	8" WHITE DOTTED LANE LINE, 3' DASH, 9' SKIP
		N	12" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
		O	12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
		P	12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
		Q	12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
		R	12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
		S	12" WHITE CHEVRONS SPACED @ 30' CENTERS
		T	24" WHITE STOP BAR
		U	24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
		Y	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
		Z	RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 10 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	267
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON PCC PAVEMENT SHALL BE POLYUREA TYPE I EXCEPT WHERE NOTED IN THE PLANS.
2. ALL FINAL PAVEMENT MARKING MATERIALS PLACED ON BITUMINOUS PAVEMENT SHALL BE THERMOPLASTIC EXCEPT WHERE NOTED IN THE PLANS.
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4. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
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7. PARTIAL STATIONS PROVIDED REFER TO MAINLINE I-290 UNLESS OTHERWISE NOTED.
8. MAINLINE AND RAMP LANE WIDTHS ARE 12' AND 11', RESPECTIVELY, UNLESS OTHERWISE NOTED.
9. SEE PAVEMENT MARKING DETAIL SHEETS FOR ADDITIONAL INFORMATION.

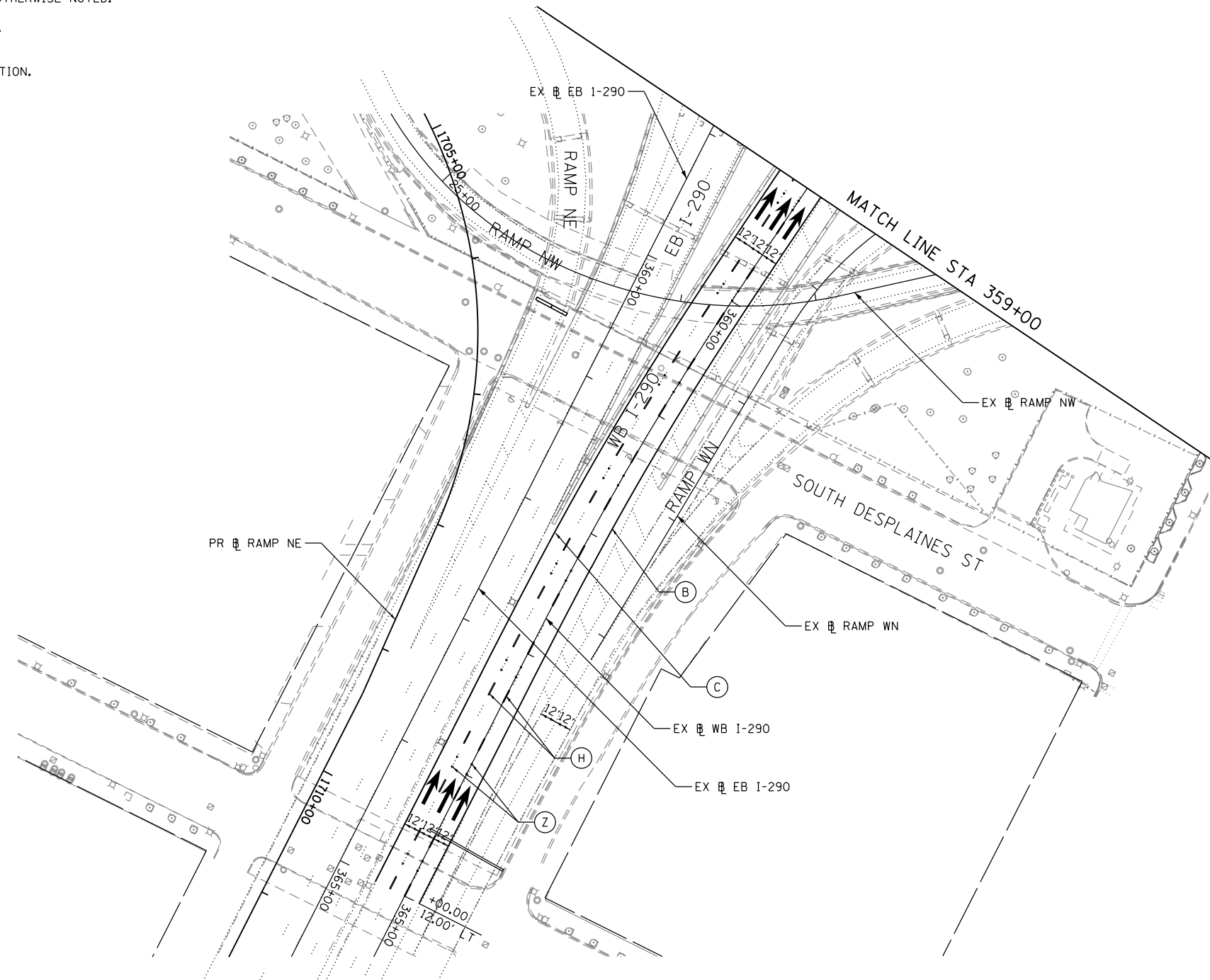
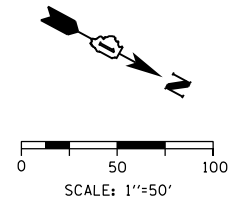
LEGEND

PAVEMENT MARKING MATERIAL

- EPOXY PAVEMENT MARKING
- ◇ PAVEMENT MARKING TAPE, TYPE III
- THERMOPLASTIC PAVEMENT MARKING
- △ POLYUREA PAVEMENT MARKING TYPE I

PAVEMENT MARKING TYPE

- A - LETTERS AND SYMBOLS (WHITE)
- B - 4" WHITE EDGE LINE
- C - 4" YELLOW LINE
- D - 4" DOUBLE YELLOW CENTERLINE
- E - 4" WHITE (6' DASH, 18' SKIP)
- F - 4" YELLOW (6' DASH, 18' SKIP)
- G - 4" WHITE (2' DASH, 6' SKIP)
- H - 5" WHITE (10' DASH, 30' SKIP)
- I - 6" WHITE SOLID LINE
- J - 6" WHITE (2' DASH, 6' SKIP)
- K - 6" WHITE 45° DIAGONALS SPACED @ 20' CENTERS
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- O - 12" WHITE 45° DIAGONALS SPACED @ 30' CENTERS
- P - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- Q - 12" YELLOW 45° DIAGONALS SPACED @ 50' CENTERS
- R - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- S - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- T - 24" WHITE STOP BAR
- U - 24" WHITE CROSSWALK, 6' WIDTH, SPACED @ 4' CENTERS
- Y - RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE) (1-WAY CRYSTAL / OPAQUE)
- Z - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL / OPAQUE)



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PLOT DATE = 4/27/2014	DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	268
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

REMOVAL AND PROPOSED SIGN SCHEDULE

DESCRIPTION					LOCATION (STATION / OFFSET)		EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		SIGN PANEL TYPE 2	SIGN PANEL TYPE 3	WOOD SIGN SUPPORT	REMOVE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	OVERHEAD SIGN STRUCTURE - SPAN, TYPE 1-A (4'-0" X 4'-6")	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	REMOVE, STORE AND RE-ERECT SIGN PANEL (SPECIAL)	
LOCATION	SIGN NO.	LEGEND / DESCRIPTION	CODE	ACTION	BASELINE RAMP NW		WIDTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(SQ FT)	(FOOT)	(EACH)	(EACH)	(FOOT)	(EACH)	(FOOT)	(EACH)	
RAMP NW	NW-01-WP	MERGE RIGHT	W4-3R	INSTALL NEW SIGN AND POST	1803+50	RT			4.00	4.00	16		16.00							
	NW-02-TS(S)	SPEED LIMIT 35 MPH	R2-1		1812+00	RT			4.00	5.00	20							6.50		
	NW-03-TS(S)	SPEED LIMIT 35 MPH	R2-1	INSTALL NEW SIGN AND POST ON BARRIER WALL	1812+00	LT			4.00	5.00	20							6.50		
	EX-01-OV	I-290 WEST EISENHOWER EXPY WEST SUBURBS DOWN ARROW		REMOVE EXISTING SIGN PANEL AND OVERHEAD SIGN STRUCTURE - SPAN	1818+33		16.00	10.50	-	-								1		
	EX-02-OV	CONGRESS PKWY/CHICAGO LOOP DOWN ARROW					17.00	10.50	-	-										
	EX-01-SA	DOUBLE DOWN	W12-1	REMOVE EXISTING SIGN	1822+55	LT	4.00	4.00						1						
	EX-02-SA	CURVE RT ADVISORY SPEED: 30 MPH	W1-2 W13-1	REMOVE EXISTING SIGN PANEL ASSEMBLY	1823+88	LT	4.00 2.50	4.00 2.50							1					
	NW-03-OV	I-290 WEST EISENHOWER EXPY AURORA 45 DEGREE UP ARROWS	M1-1	INSTALL NEW SIGNS ON PROPOSED OVERHEAD SIGN STRUCTURE	1823+65.50				17.50	13.50		236.25					SEE OVERHEAD SIGN STRUCTURE FOR BILL OF MATERIALS FOR QUANTITY			
	NW-04-OV	CONGRESS EXPY EXIT ONLY			1823+65.50				16.50	7.00		115.50								
	NW-02-EXT	EXIT 51 I			1823+65.50				13.00	2.50		32.50								
	EX-03-SA	CHEVRON ALIGNMENT	W1-8R	REMOVE EXISTING SIGN	1827+18	LT	3.00	4.00							1					
	EX-04-SA	CHEVRON ALIGNMENT	W1-8R	REMOVE EXISTING SIGN	1828+22	LT	3.00	4.00							1					
	EX-01-GM	NOTICE, MOVE OVER - SLOW DOWN FOR STOPPED EMERGENCY OR MAINTENANCE VEHICLES, IT'S THE LAW			1833+88	LT			-	-										1
	ROUNDED TOTAL											56.0	384.5	16	1	3	-	1	13	1

NOTE:

1. SEE OVERHEAD SIGN STRUCTURES GENERAL PLAN AND ELEVATION SHEET FOR OVER HEAD SIGN STRUCTURE QUANTITIES.

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D160W28-sht-Sign-Schedule-01
 USER NAME = pimsarno
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

DESIGNED - OPS
 DRAWN - OPS/NSA
 CHECKED - KCF
 DATE - 04/28/14

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIGNING

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

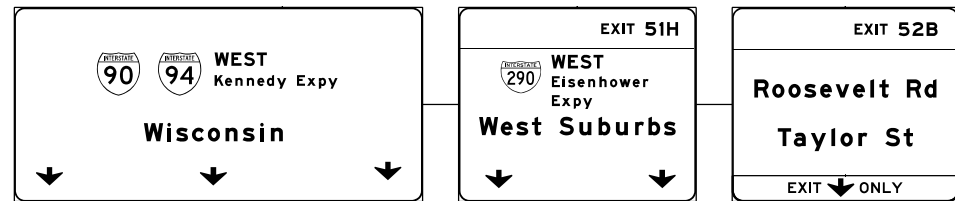
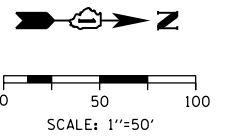
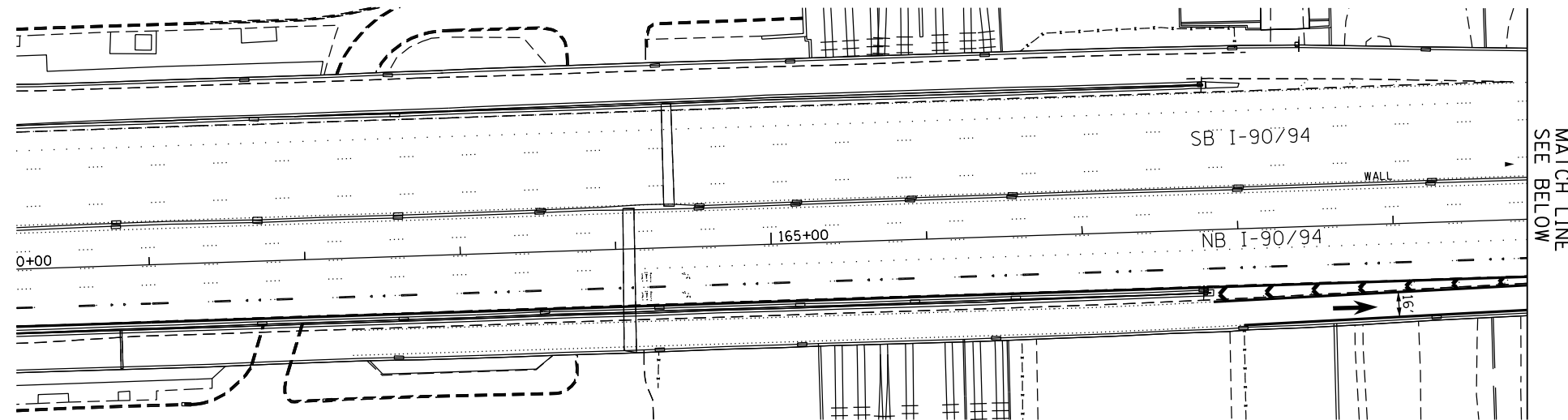
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	269
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

SIGNING NOTES

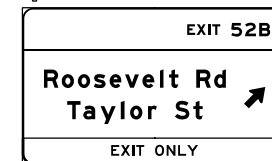
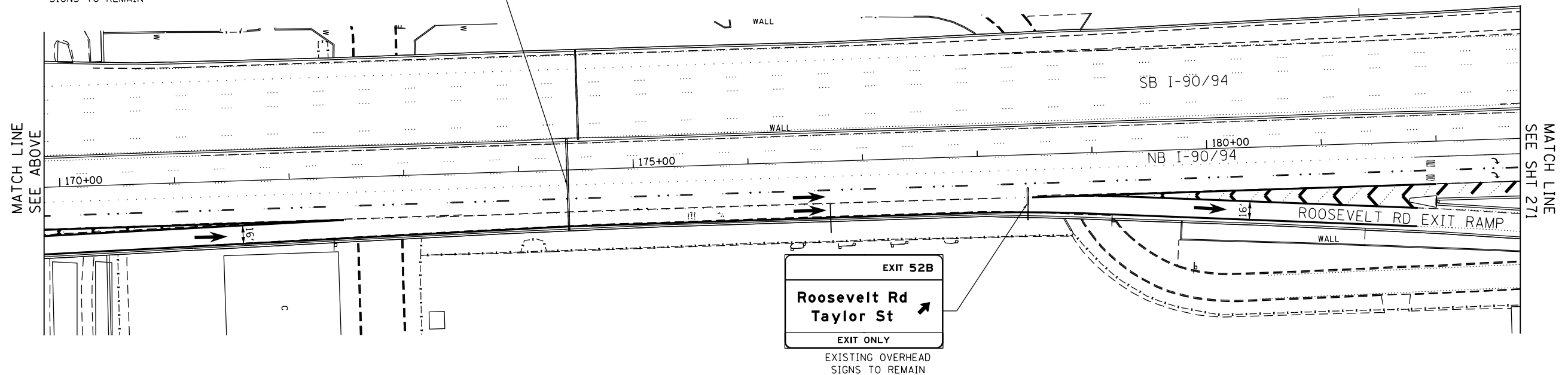
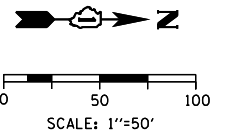
1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING SIGN INFORMATION FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL SIGNS SHALL BE DIRECTED BY THE ENGINEER.

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	EXAMPLE	MOUNTING TYPE
NW - RAMP NW	NB-03-LP	ST - STEEL POST
EX - EXISTING		TS - TELESCOPING STEEL
		LP - LIGHT POLE BANDING
		SP - SIGNAL POLE BANDING
		SA - SIGNAL POLE MAST ARM
		BM - BRIDGE MOUNTED
		PP - PEDESTRIAN PUSH BUTTON
		BS - BREAKAWAY STEEL
		WP - WOOD POST
		OV - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		(S) - SPECIAL



EXISTING OVERHEAD SIGNS TO REMAIN



EXISTING OVERHEAD SIGNS TO REMAIN

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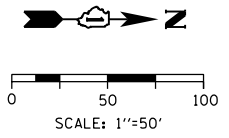
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN

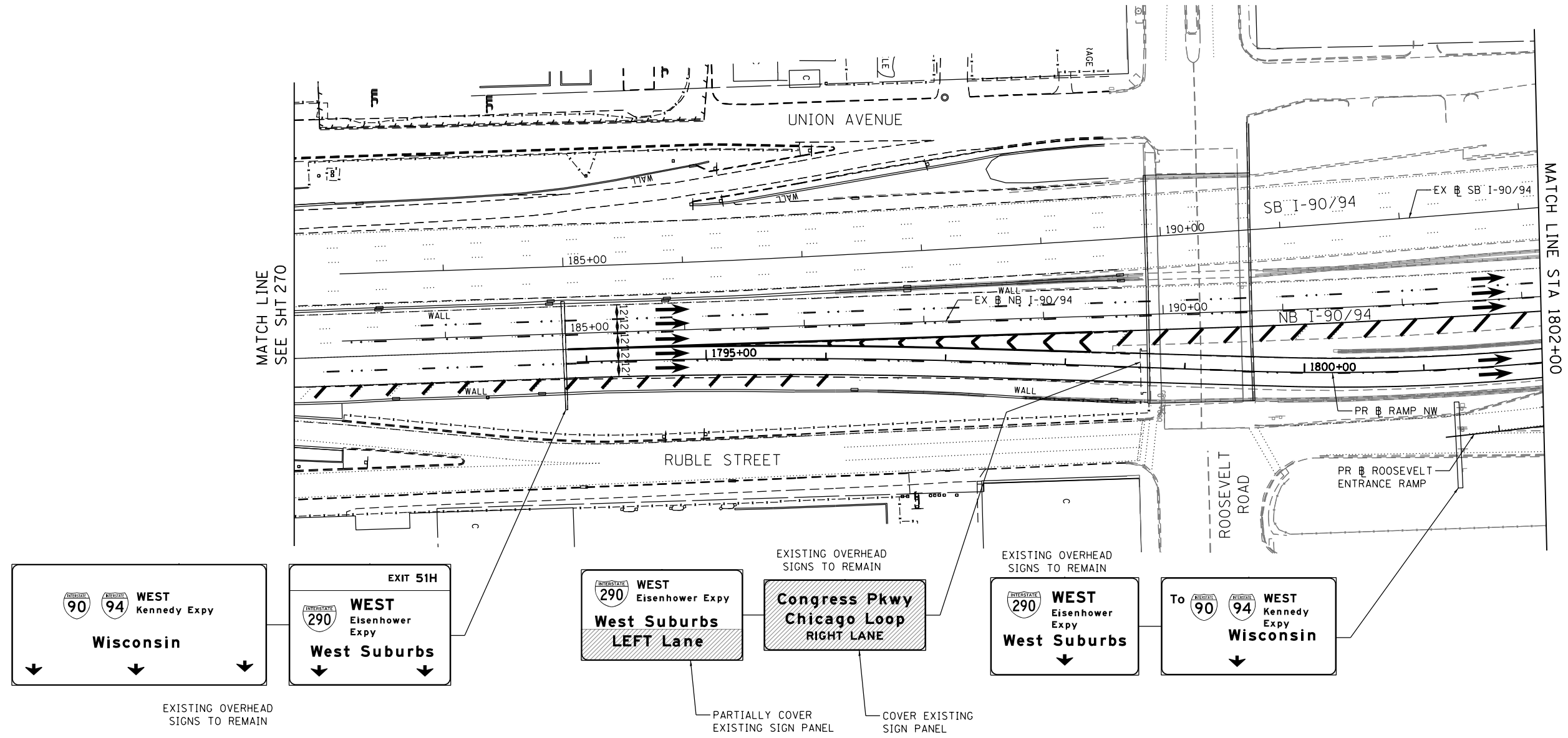
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	270
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



SIGNING NOTES

1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING SIGN INFORMATION FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL SIGNS SHALL BE DIRECTED BY THE ENGINEER.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

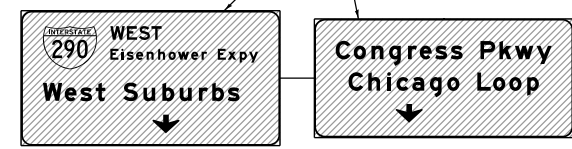
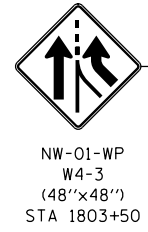
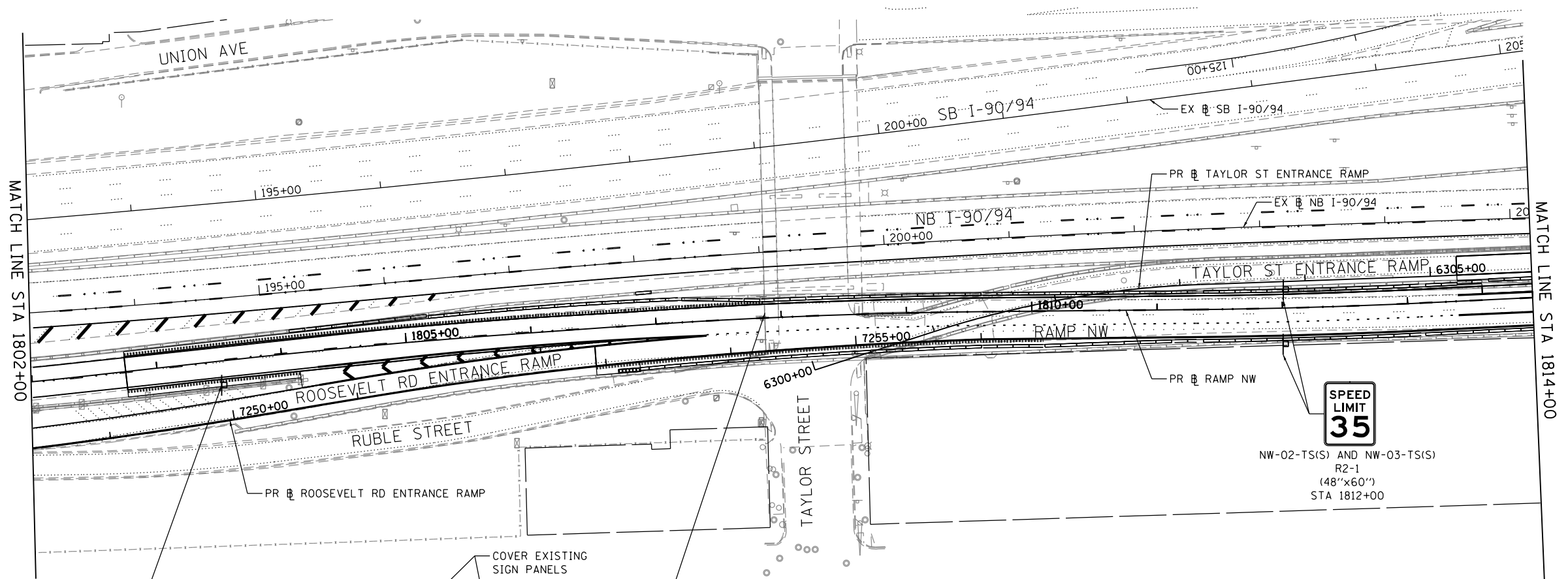
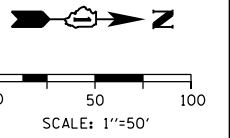
SIGNING PLAN

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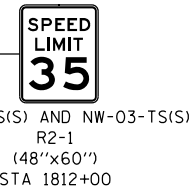
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	271
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

SIGNING NOTES

1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
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EXISTING BRIDGE MOUNTED SIGNS,
SIGN STRUCTURE TO BE REMOVED
IN THE FUTURE CONTRACT (BY OTHERS)



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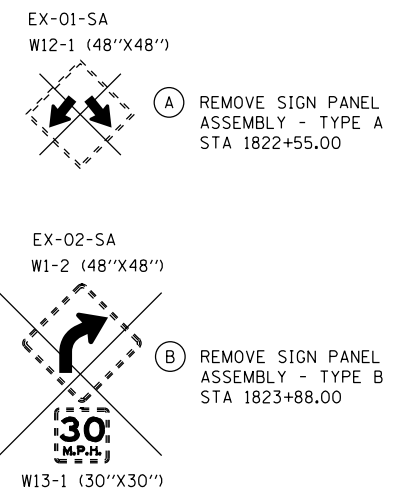
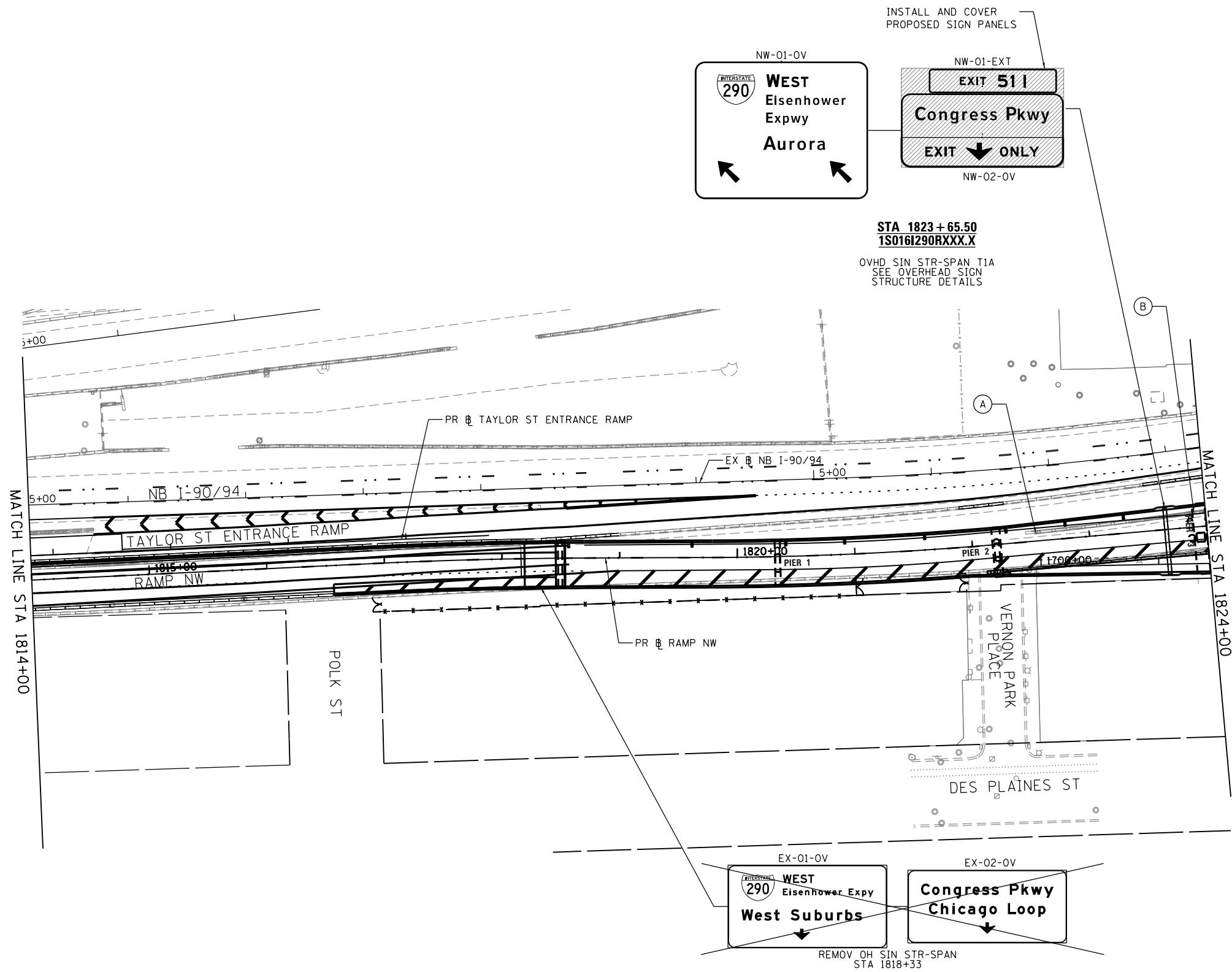
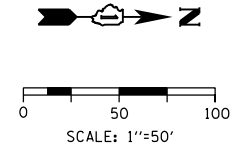
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN
SCALE: 1"=50' SHEET 3 OF 7 SHEETS STA. 1802+00 TO STA. 1814+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	272
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

SIGNING NOTES

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D160W28-SHT-Sign-04.dgn	DESIGNED - OPS	REVISED -
USER NAME = pimsarno	DRAWN - NSA	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - KCF	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

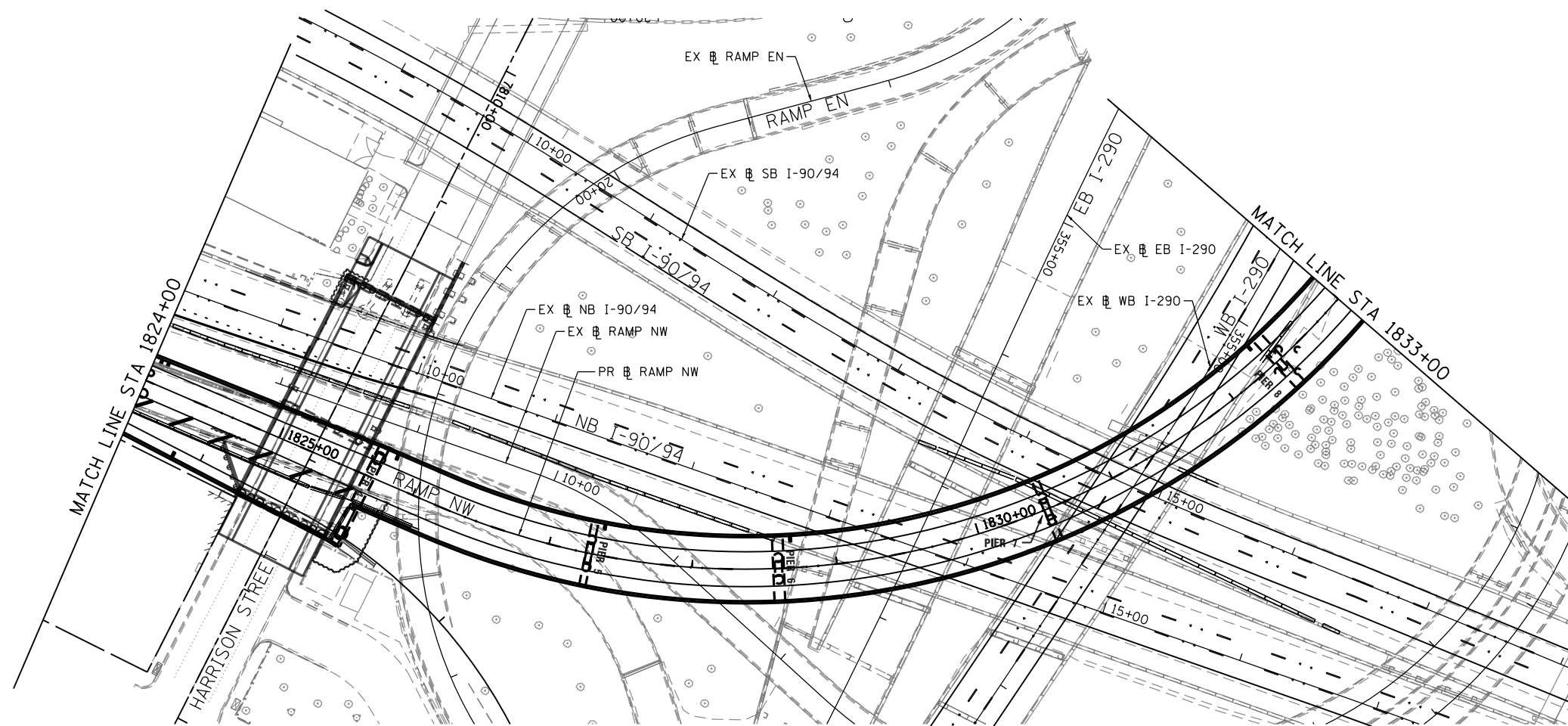
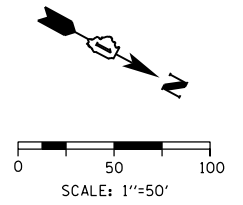
SIGNING PLAN

SCALE: 1"=50' SHEET 4 OF 7 SHEETS STA. 1814+00 TO STA. 1824+00


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	273
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

SIGNING NOTES

1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
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EX-03-SA AND
EX-04-SA



REMOVE SIGN PANEL
ASSEMBLY - TYPE B
ON TOP EXISTING
BARRIER ALONG RAMP NW
AT APPROXIMATE
STA 1827+18, 51' LT AND
STA 1828+22, 10' RT

W1-8R
(36"X48")

FILE PATH = C:\Users\pmsarno\Desktop\print_4_26_14\0160W28-SHT-Sign-05.dgn



D160W28-SHT-Sign-05.dgn
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PLOT SCALE = 100.0000' / in.
PLOT DATE = 4/27/2014

DESIGNED - OPS
DRAWN - NSA
CHECKED - KCF
DATE - 04/28/14

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

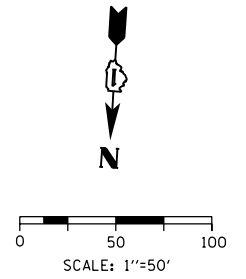
SIGNING PLAN

SCALE: 1"=50' SHEET 5 OF 7 SHEETS STA. 1824+00 TO STA. 1833+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	274
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

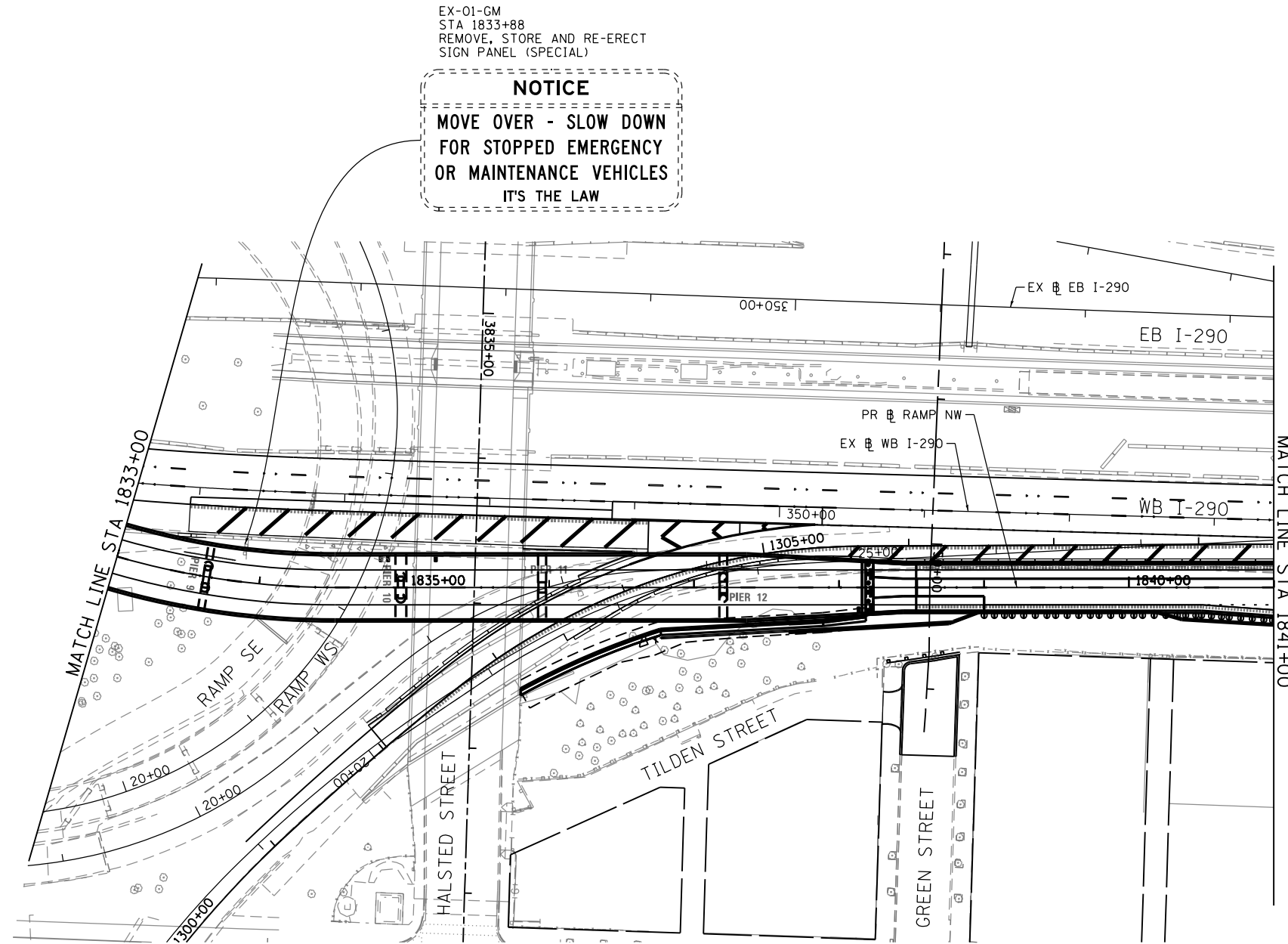
SIGNING NOTES

1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING SIGN INFORMATION FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL SIGNS SHALL BE DIRECTED BY THE ENGINEER.



EX-01-GM
 STA 1833+88
 REMOVE, STORE AND RE-ERECT
 SIGN PANEL (SPECIAL)

NOTICE
 MOVE OVER - SLOW DOWN
 FOR STOPPED EMERGENCY
 OR MAINTENANCE VEHICLES
 IT'S THE LAW



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D160W28-SHT-Sign-06.dgn
 USER NAME = pimsarno
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 4/28/2014

DESIGNED - OPS	REVISED -
DRAWN - NSA	REVISED -
CHECKED - KCF	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

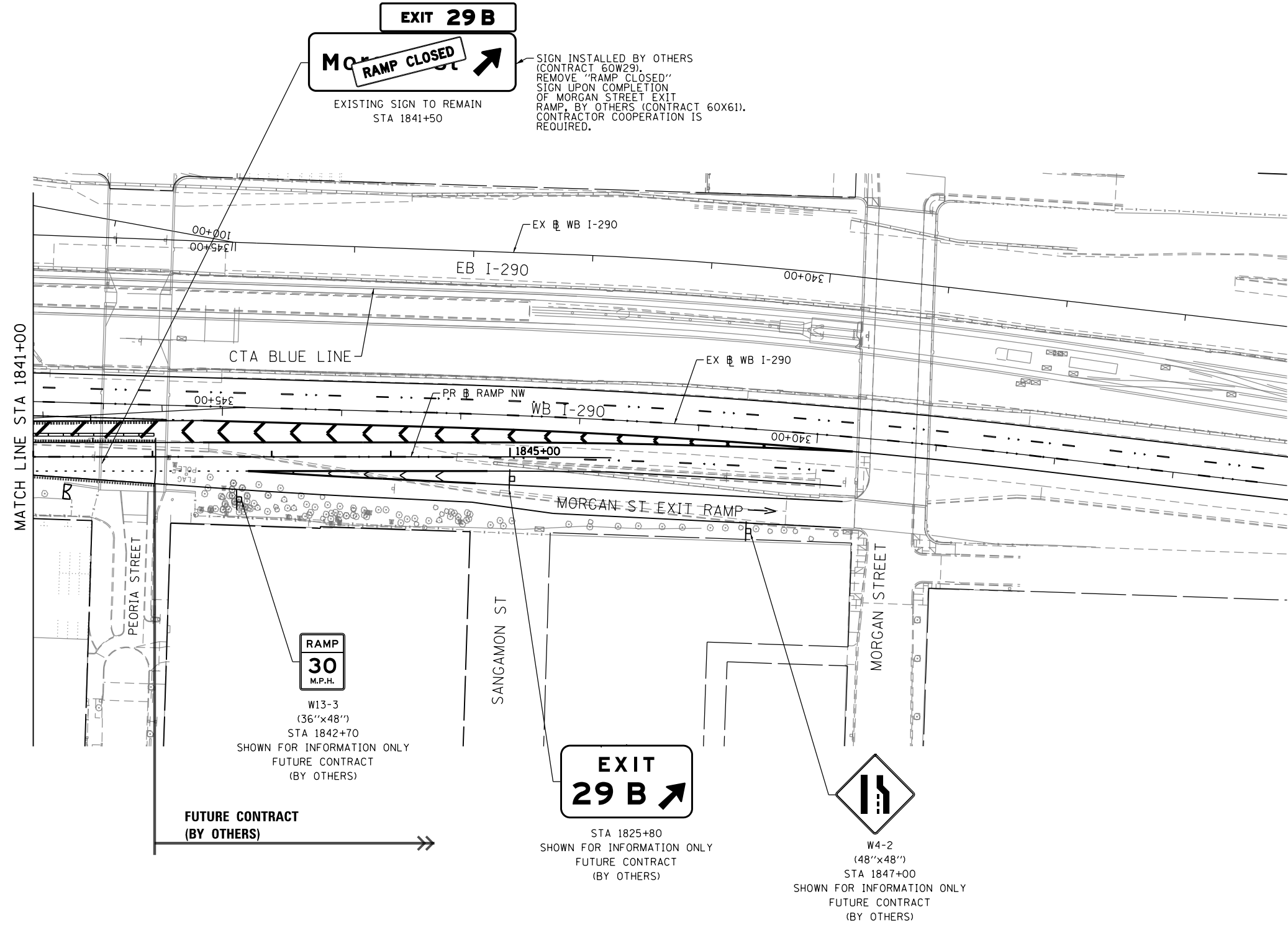
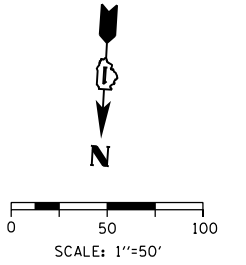
SIGNING PLAN

SCALE: 1"=50' SHEET 6 OF 7 SHEETS STA. 1833+00 TO STA. 1841+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	275
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

SIGNING NOTES

1. SEE SIGN SCHEDULE FOR SIGN PANEL AND MOUNTING INFORMATION.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING SIGN INFORMATION FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL SIGNS SHALL BE DIRECTED BY THE ENGINEER.



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 PLOT SCALE = 100.0000' / 1" =
 PLOT DATE = 4/27/2014

DESIGNED - OPS	REVISED -
DRAWN - NSA	REVISED -
CHECKED - KCF	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIGNING PLAN

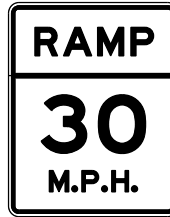
SCALE: 1"=50' SHEET 7 OF 7 SHEETS STA. 1841+00 TO STA. 1846+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	276
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



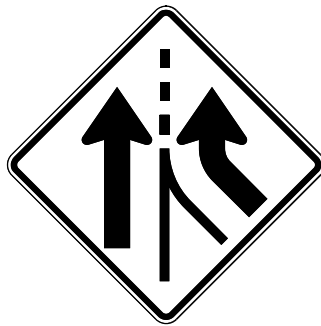
R2-1
(48"x60")

STA 1812+00.00 (RT AND LT)



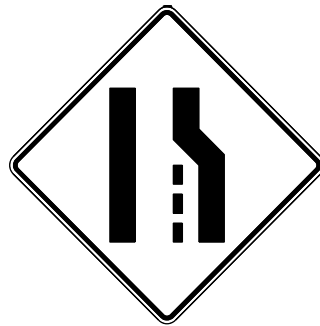
W13-3
(36"x48")

STA 1842+70.00
SHOWN FOR INFORMATION ONLY
FUTURE CONTRACT
(BY OTHERS)



W4-3
(48"x48")

STA 1803+50.00 (RT)



W4-2
(48"x48")

STA 1847+00.00
SHOWN FOR INFORMATION ONLY
FUTURE CONTRACT
(BY OTHERS)

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D160W28-sht-Sign-Det-04.dgn
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PLOT SCALE = 20.0000' / in.
PLOT DATE = 4/27/2014

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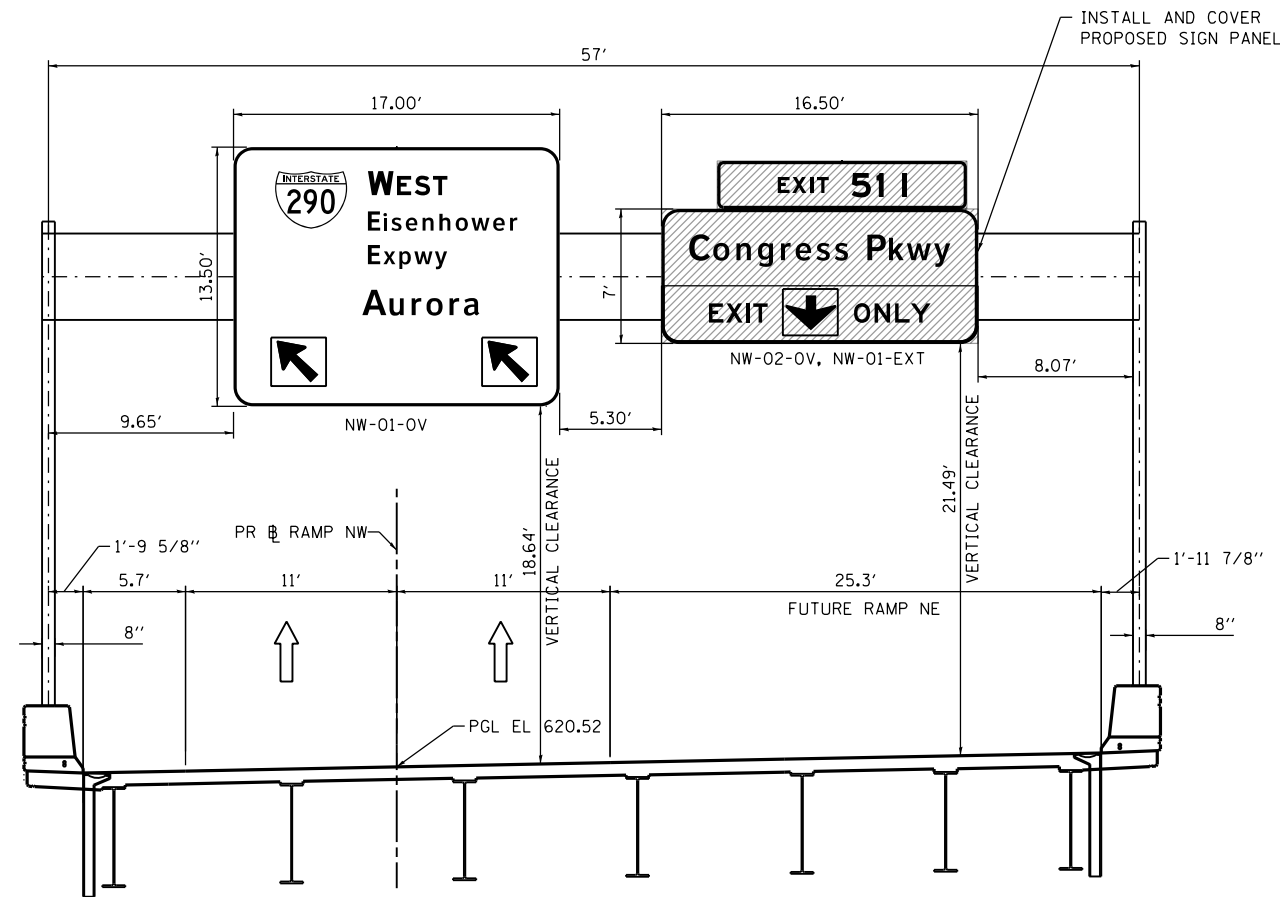
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	280
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60W28	

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OVERHEAD SIGN STRUCTURE

STA 1823 + 65.50

PR RAMP NW



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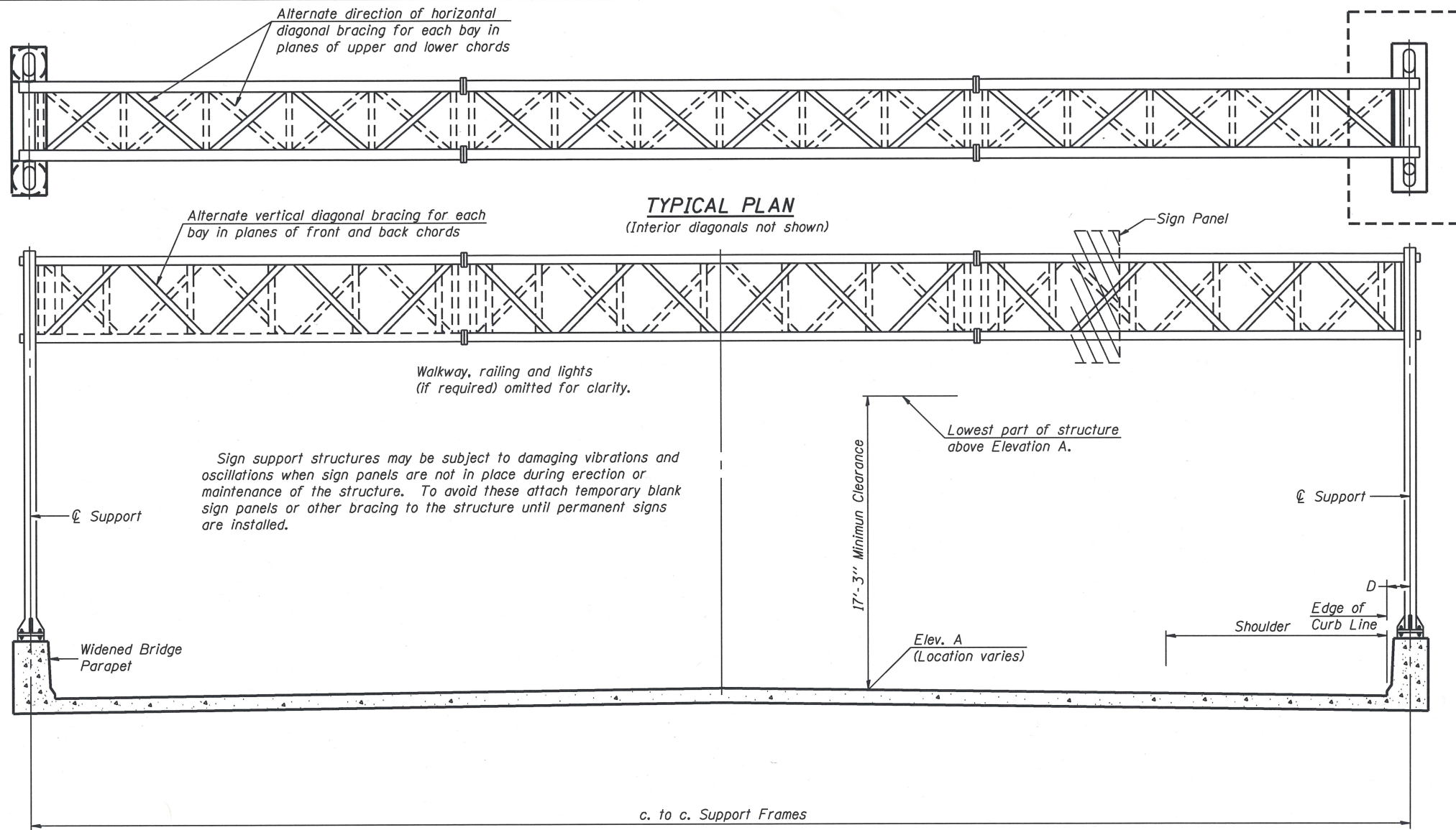
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN PANEL PLACEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	281
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

DESIGN STRESSES:
Field Units
f_c = 3,500 p.s.i.
f_y = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B or C. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53. All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Anchor Rods, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to ASTM F1554 Gr. 105.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

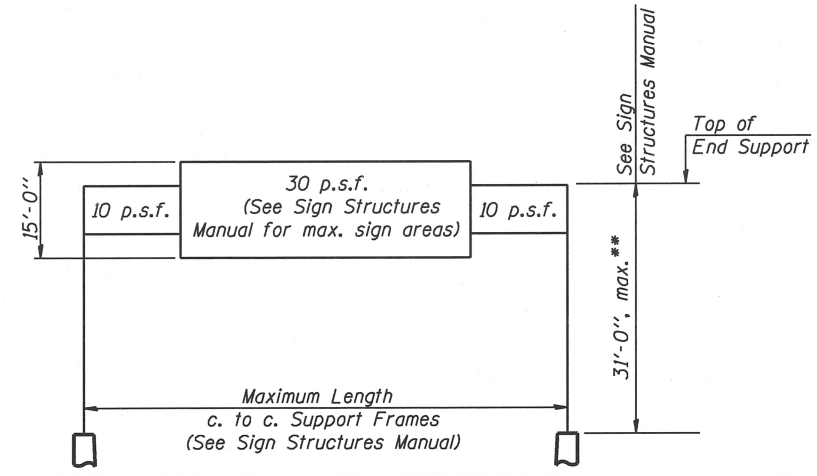
REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations and Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

TYPICAL ELEVATION
(Looking at Face of Signs)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D at Left Support	Dim. D at Right Support	Height of Tallest Sign	Total Sign Area
ISO16I290R050.5	1823+65.50	I-A	56'-10 ¹ / ₄ "	621.24	1'-9 ⁵ / ₈ "	1'-11 ⁷ / ₈ "	13'-6"	377.50 SQ FT

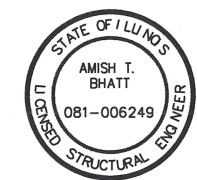


DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

** Per IDOT Sign Structures Manual 35'-0" max height allowed on all Type I-A structure if 10-inch diameter by 0.365-inch wall thickness pipes are used for the end supports.



Amish T. Bhatt 4/28/14
AMISH T. BHATT
LICENSE EXPIRES 11/30/2014

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	57

60W28_SignStructure_Sheet01.dgn



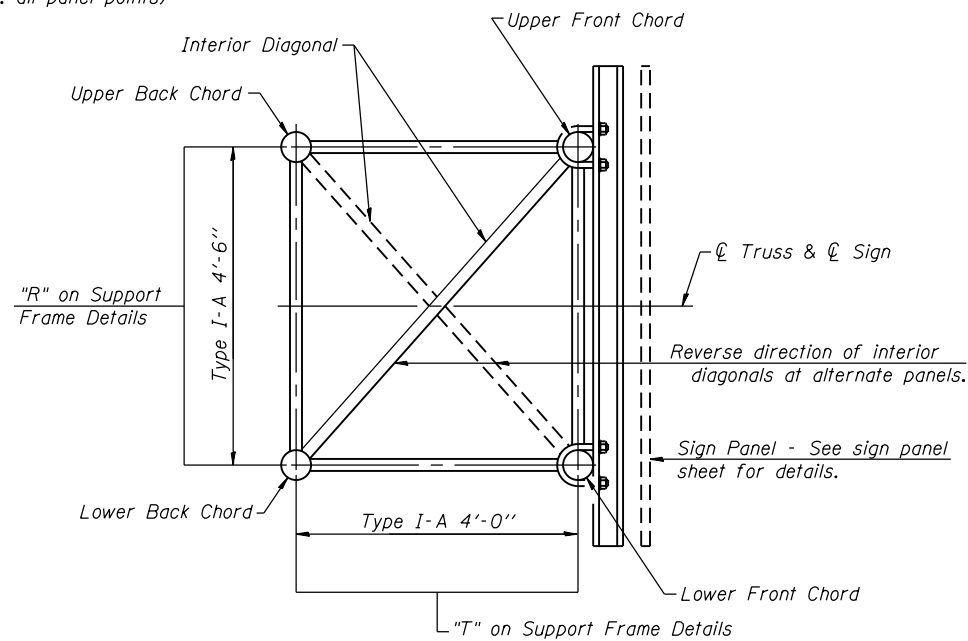
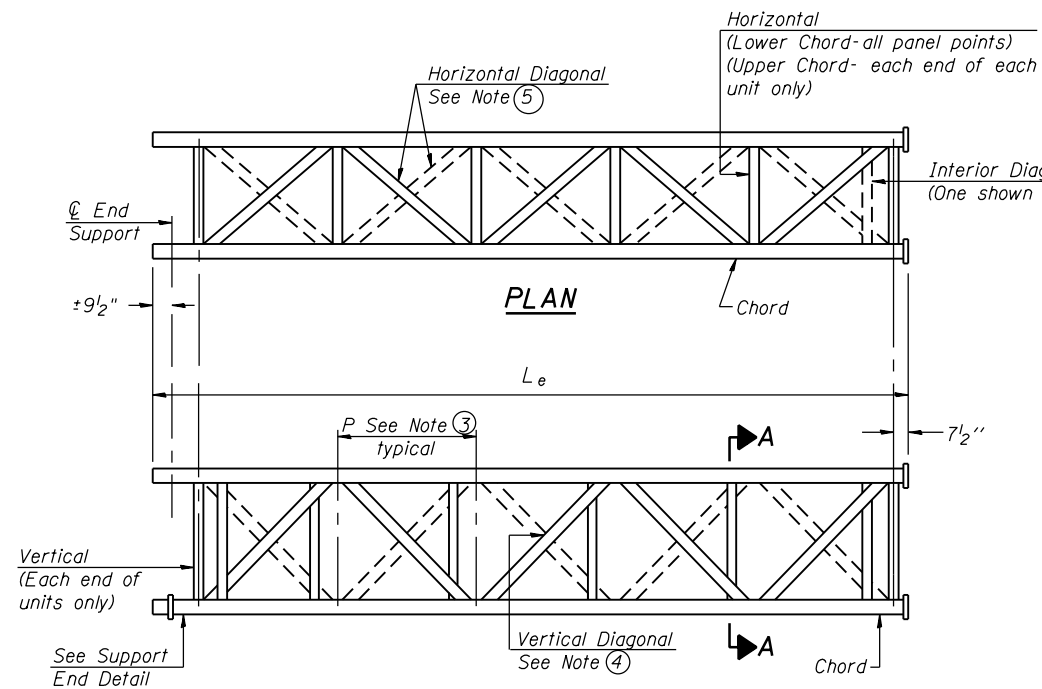
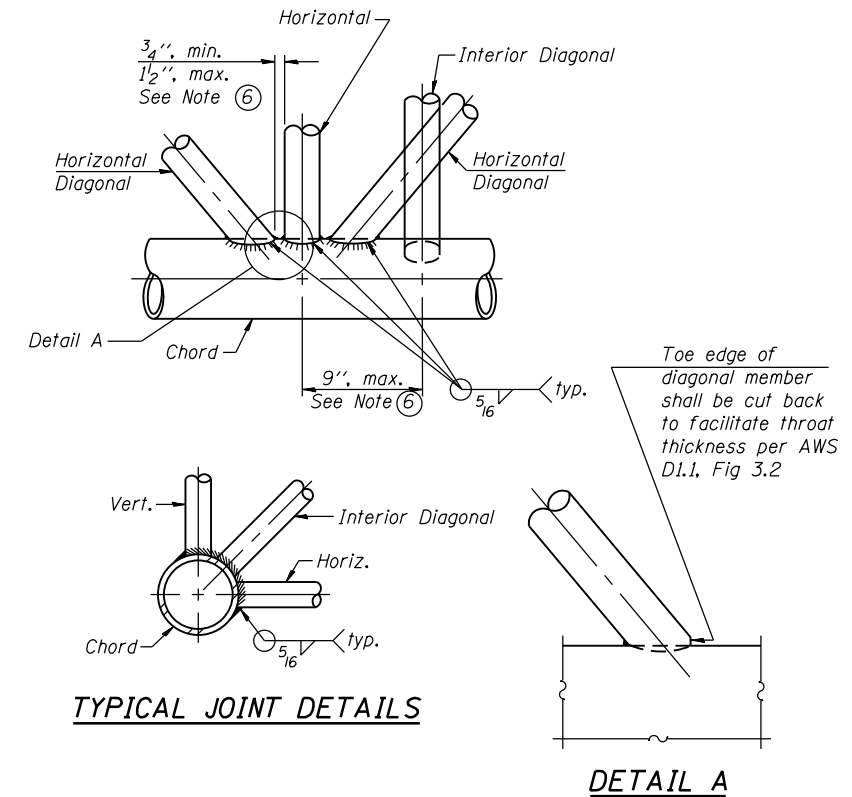
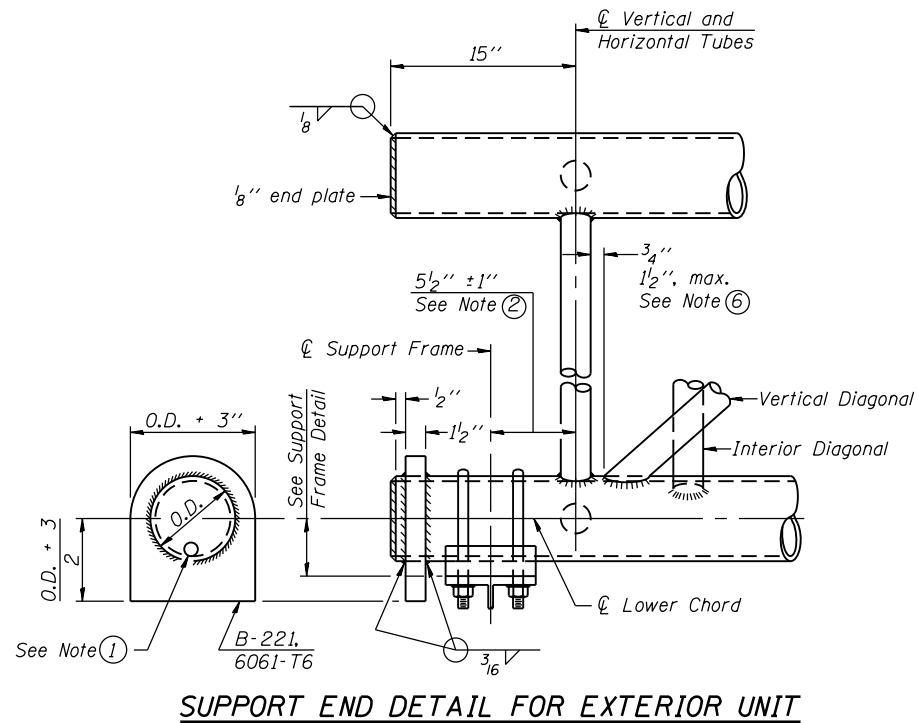
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PLLOT DATE = 5/8/2014	DRAWN - VP	REVISED
	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN &
ELEVATION - ALUMINUM TRUSS & STEEL SUPPORTS

SHEET NO. SOH-01 OF SOH-10 SHEETS

F.A.I. RTE. NO. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 282
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A.
- ④ Vertical Diagonals in front and back face shall alternate.
- ⑤ Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
- ⑥ All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a 3/4" minimum to 1 1/2" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

60W28_SignStructure_Sheet02.dgn



USER NAME = patelvi	DESIGNED - VP	REVISED
	CHECKED - DD	REVISED
PLOT SCALE = N.T.S.	DRAWN - VP	REVISED
PLOT DATE = 5/9/2014	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

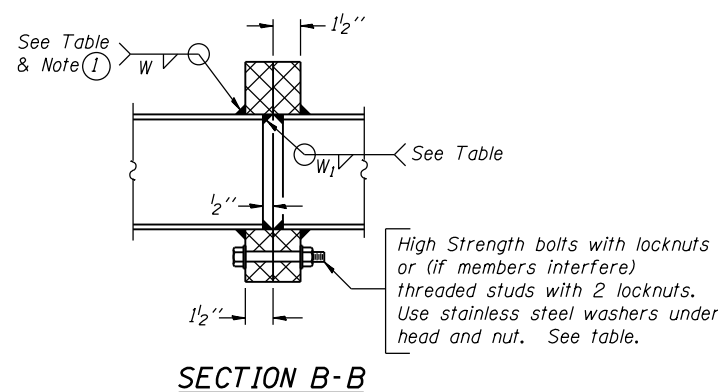
OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	283
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT				

SHEET NO. SOH-020F SOH-10 SHEETS

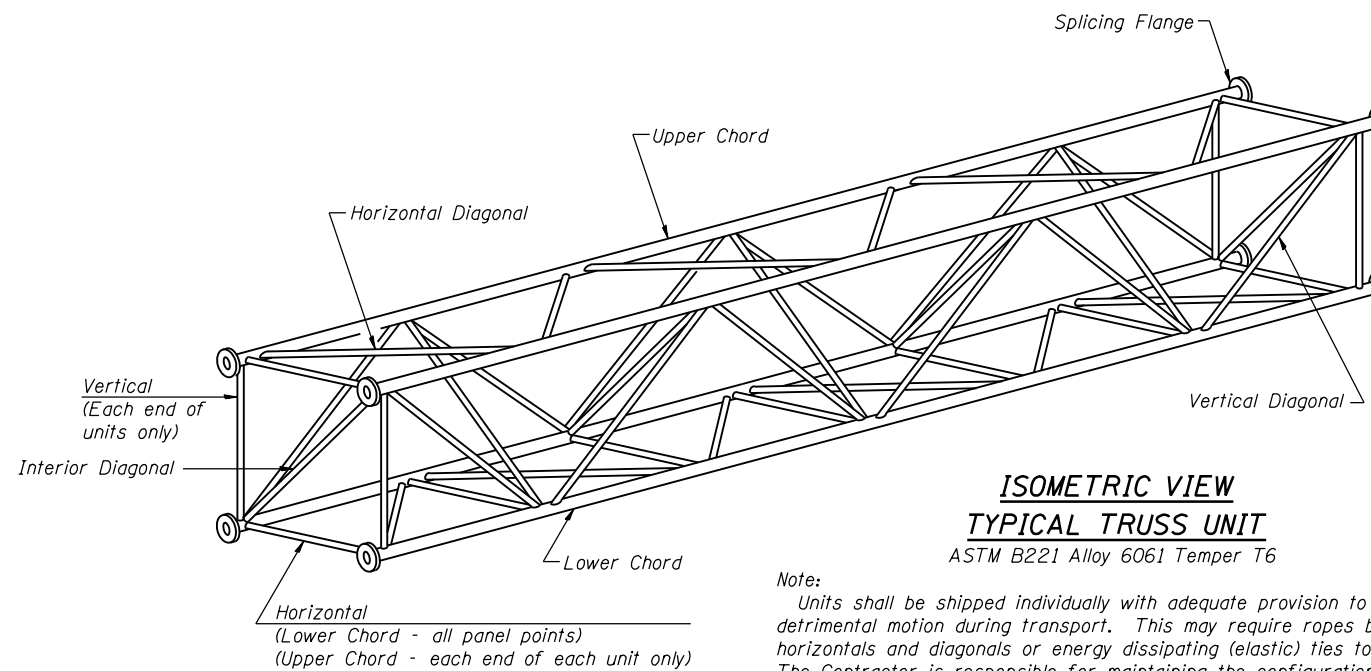
TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	Bolts		Weld Sizes			A	B				
										No./Splice	Dia.	W	W ₁							
IS0161290R050.5	1823+65.50	I-A	6	29'-3"	4'-6 ³ / ₄ "	0	-	-	-	5"	1/4"	2 1/2"	1/4"	1/16"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"



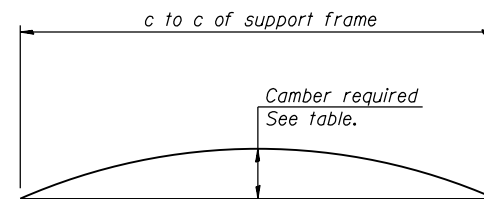
SECTION B-B

① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



**ISOMETRIC VIEW
TYPICAL TRUSS UNIT**
ASTM B221 Alloy 6061 Temper T6

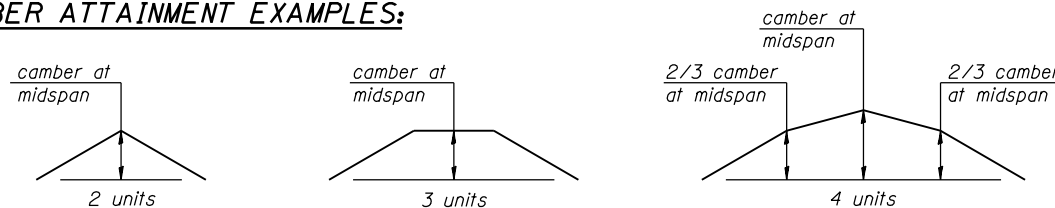
Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



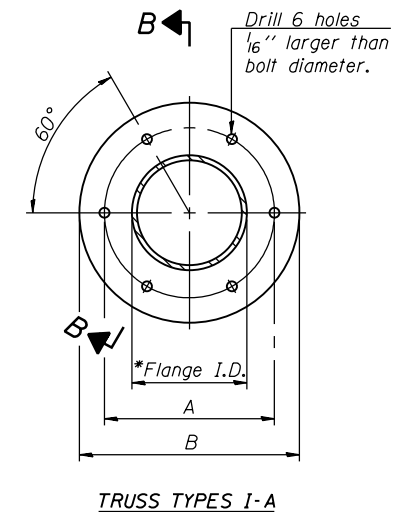
CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)



TRUSS TYPES I-A

60W28_SignStructure_Sheet03.dgn



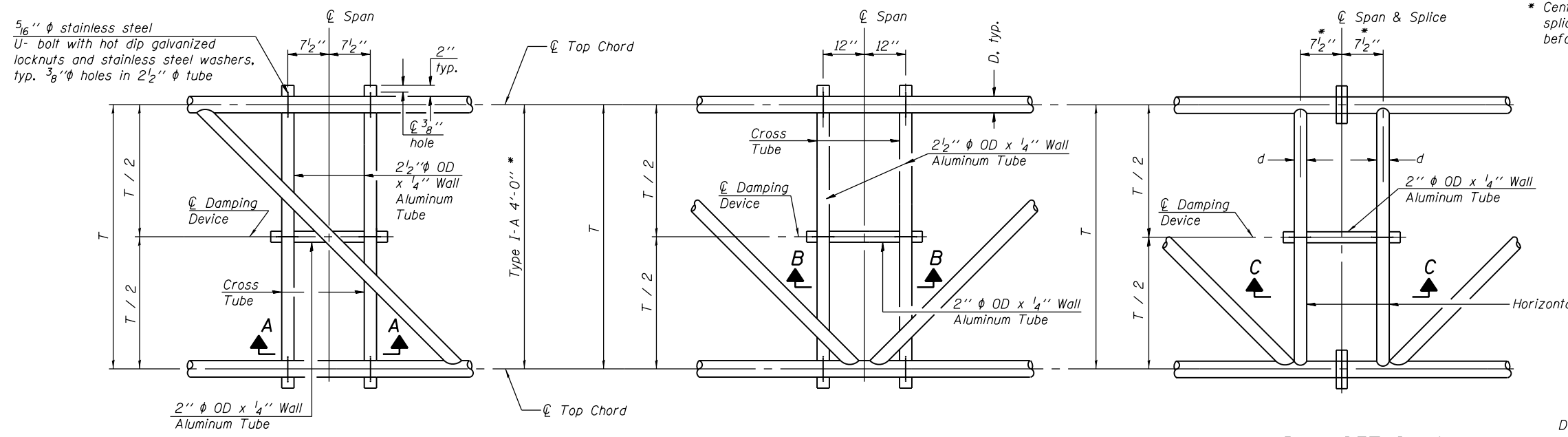
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PLOT DATE = 5/9/2014	CHECKED - ATB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A**

SHEET NO. SOH-030F SOH-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	284
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT				



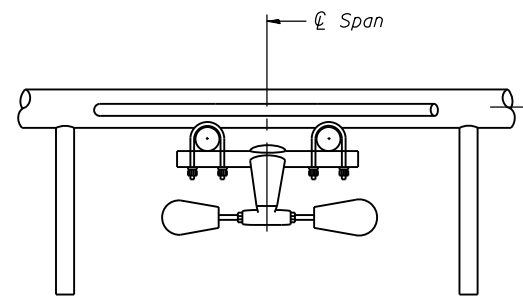
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
 ☐ Span between Panel Points

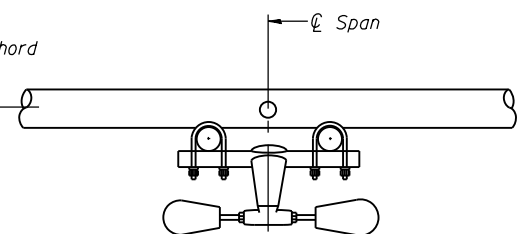
PLAN DETAIL "B"
 ☐ Span at Panel Point

PLAN DETAIL "C"
 ☐ Span at ☐ Chord Splice

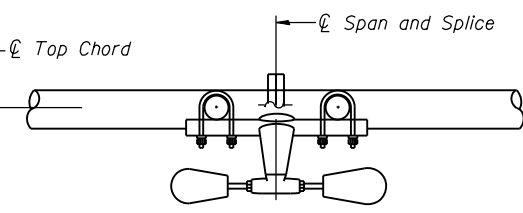
NOTES
 Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...
 Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



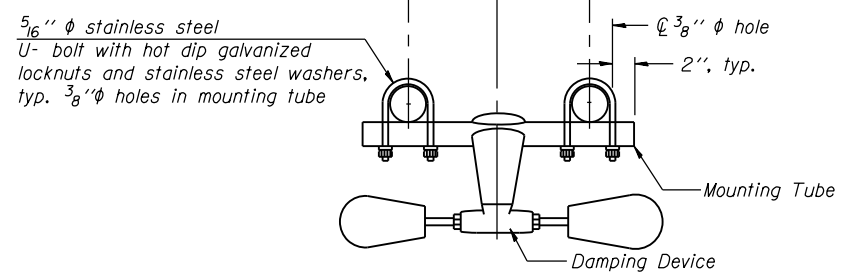
SECTION A-A



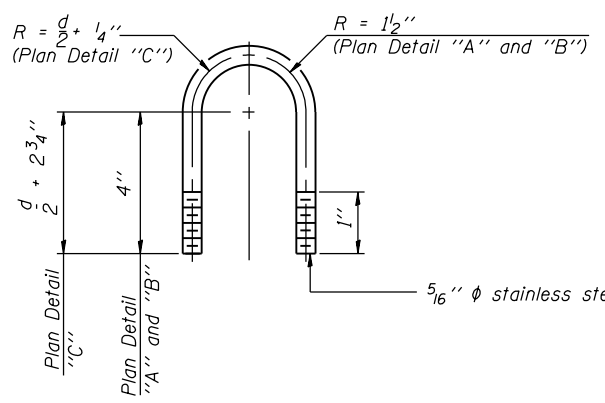
SECTION B-B



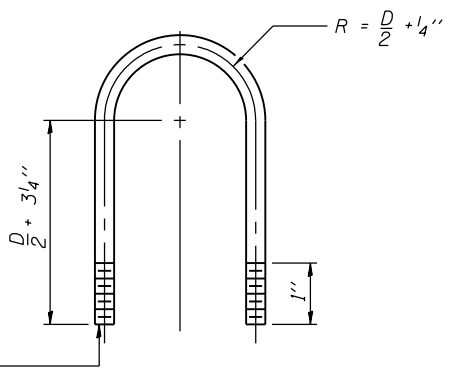
SECTION C-C



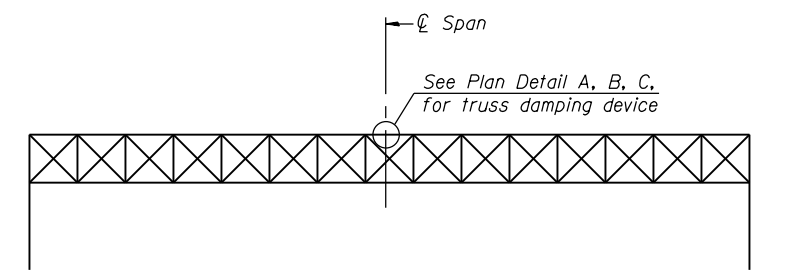
TRUSS DAMPING DEVICE CONNECTION DETAIL
 (Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
 (Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
 (Typical - Detail "A" and "B")



ELEVATION
 Aluminum Overhead Sign Truss

60W28_SignStructure_Sheet04.dgn



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PLOT SCALE = N.T.S.	CHECKED - DD	REVISED
PLOT DATE = 5/9/2014	DRAWN - VP	REVISED
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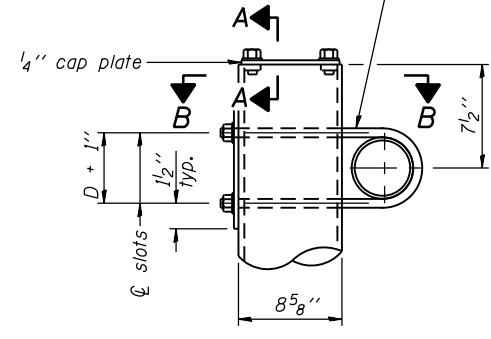
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURE
 DAMPING DEVICE

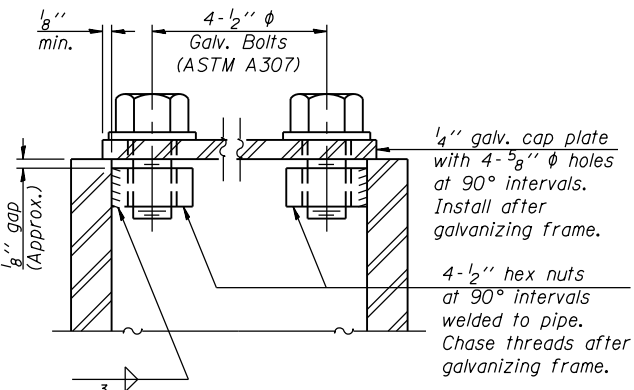
SHEET NO. SOH-040F SOH-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	285
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT				

3/4" φ stainless steel U-bolt.
Provide two washers and two hexagon locknuts. (4)
1 3/16" x 2" slots on 8" φ pipe.
(4 slots required per pipe)

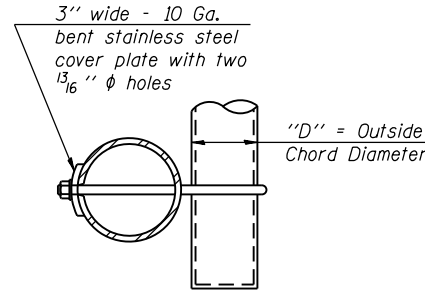


DETAIL A

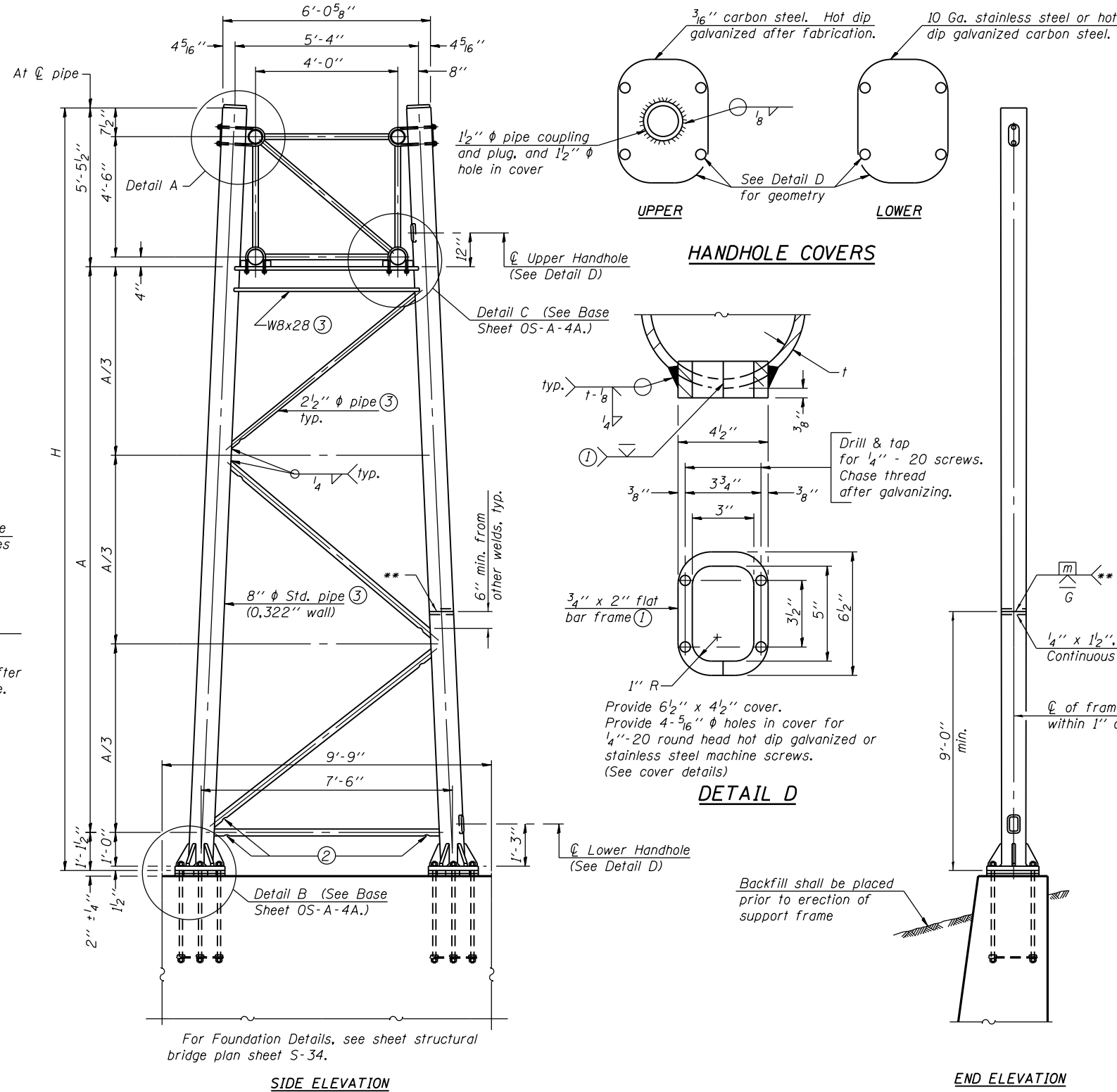


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.



SECTION B-B



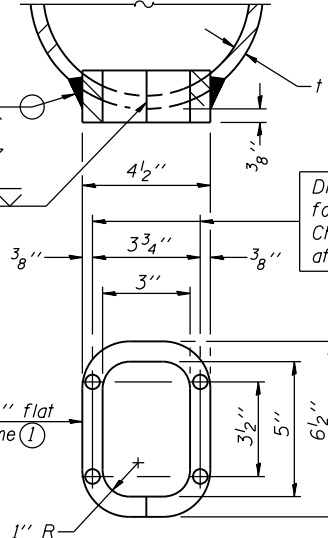
For Foundation Details, see sheet structural bridge plan sheet S-34.

SIDE ELEVATION

8" φ PIPE TRUSS SUPPORT FRAME

** One butt welded joint is allowed only on one post per support frame. If used, weld procedure must be pre-approved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

HANDHOLE COVERS



DETAIL D

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
- ④ See General Notes for fasteners.
- ⑤ Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.
- ⑥ "H" based on 15'-0" or actual sign height, whichever is greater.

Structure Number	Station	Support		H ⑤	A
		Left	Right		
IS0161290R050.5	1823+65.50	X		25'-0 7/8"	18'-5 7/8"
IS0161290R050.5	1823+65.50		X	24'-0 3/16"	17'-5 3/16"



USER NAME = potelvi	DESIGNED - VP	REVISED
PLOT SCALE = N.T.S.	CHECKED - ATB	REVISED
PLOT DATE = 5/9/2014	DRAWN - MRK	REVISED
	CHECKED - ATB	REVISED

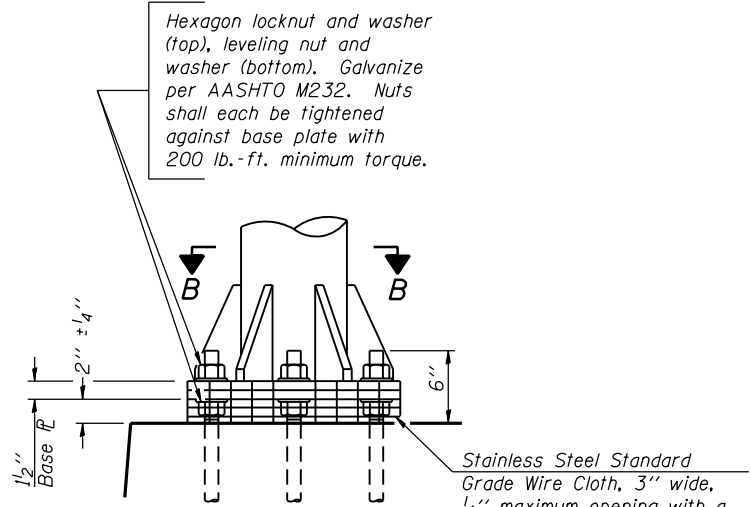
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME DETAILS - ALUMINUM TRUSS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	286
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT				

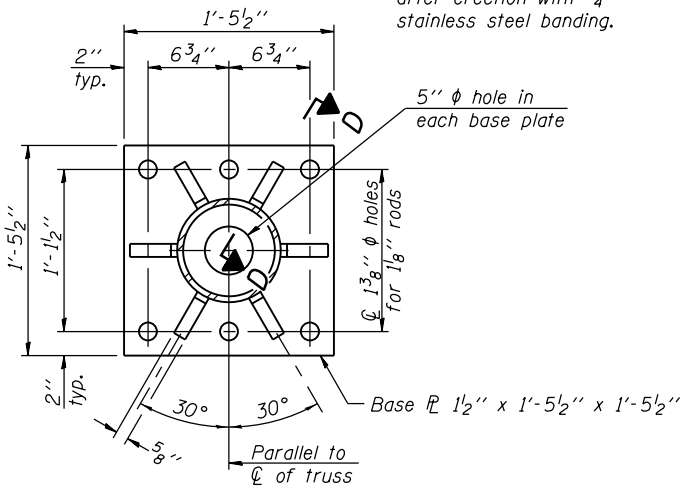
SHEET NO. SOH-050F SOH-10 SHEETS

60W28_SignStructure_Sheet05.dgn

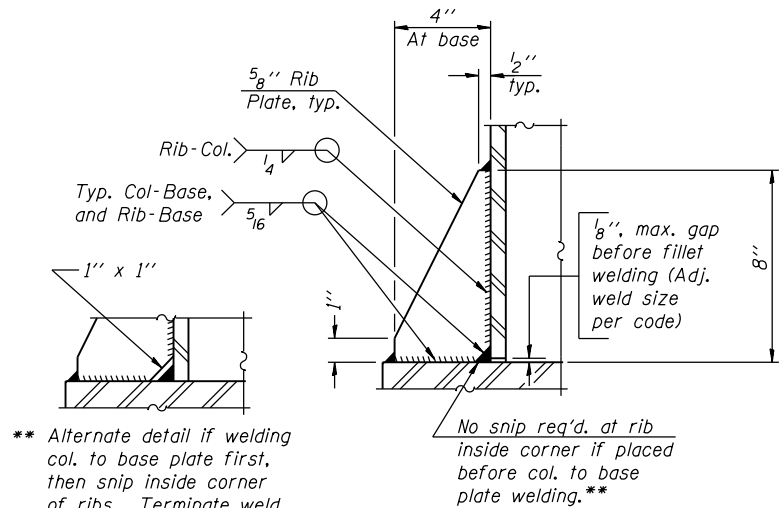


DETAIL B

Ribs shall be cut to fit slope of pipe. Stainless Steel Standard Grade Wire Cloth, 3" wide, 1/4" maximum opening with a minimum wire diameter of AWG. No. 16 with a minimum 2" lap. Secure to base plate after erection with 3/4" stainless steel banding.

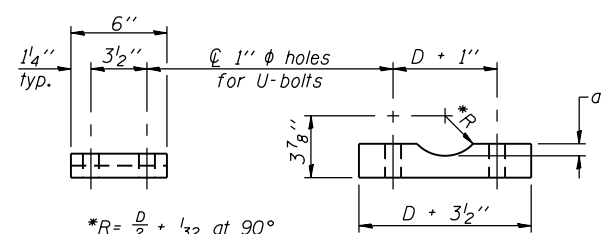


SECTION B-B



SECTION D-D

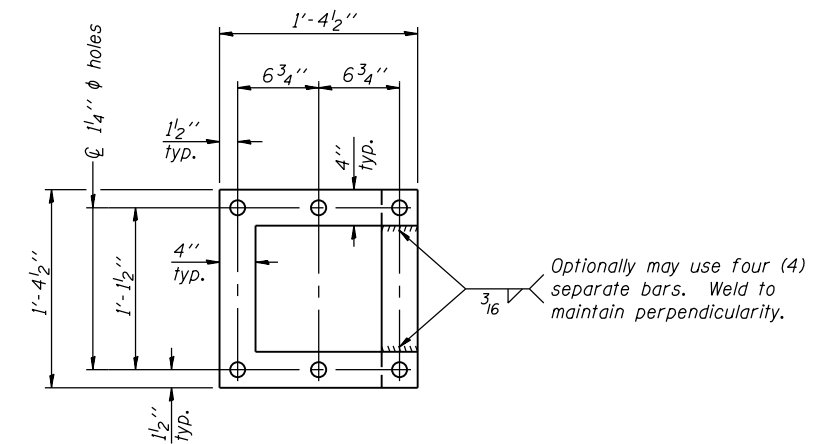
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4 inch from snip.



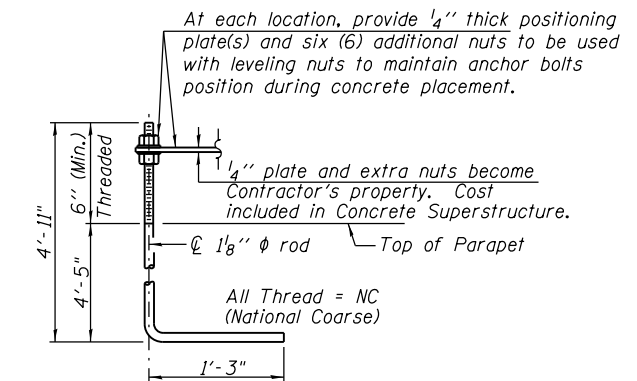
SADDLE SHIM DETAIL

ASTM B26 Alloy 356-F or ASTM B209 Alloy 6061-T651 (4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
6"	7/8"
6 1/2"	15/16"

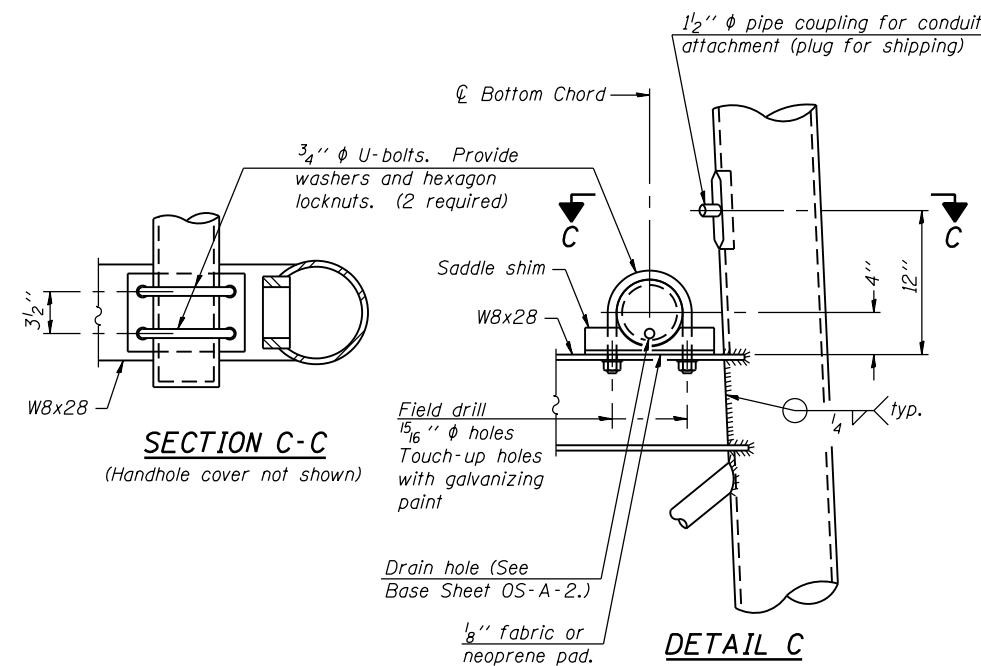


POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Cost included in Concrete Superstructure (24 Total) (ASTM F 1554 Grade 105) Full length hot dipped galvanized



SECTION C-C

(Handhole cover not shown)

DETAIL C

**TYPE I-A TRUSS
8" phi PIPE SUPPORT FRAME DETAILS**

60W28_SignStructure_Sheet106.dgn



USER NAME = potelvl	DESIGNED - VP	REVISED
PLOT SCALE = N.T.S.	CHECKED - ATB	REVISED
PLOT DATE = 5/9/2014	DRAWN - MRK	REVISED
	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE I-A ALUMINUM TRUSS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 287
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

SHEET NO. SOH-060F SOH-10 SHEETS

GENERAL NOTES

SPECIFICATIONS:

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications") (2)

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

MINIMUM CLEARANCE: 3" greater than bridge members at all locations. (All Obstructions)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code (Steel) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 (M183, M223 Gr. 50).

HIGH STRENGTH BOLTS: All bolts, washers, nuts and locknuts shall satisfy the requirements of ASTM designation A307 unless noted as "H.S." which shall require AASHTO M164 (A325), ASTM A449, or approved alternate. All fasteners shall be hot dip galvanized per AASHTO M232 unless otherwise specified.

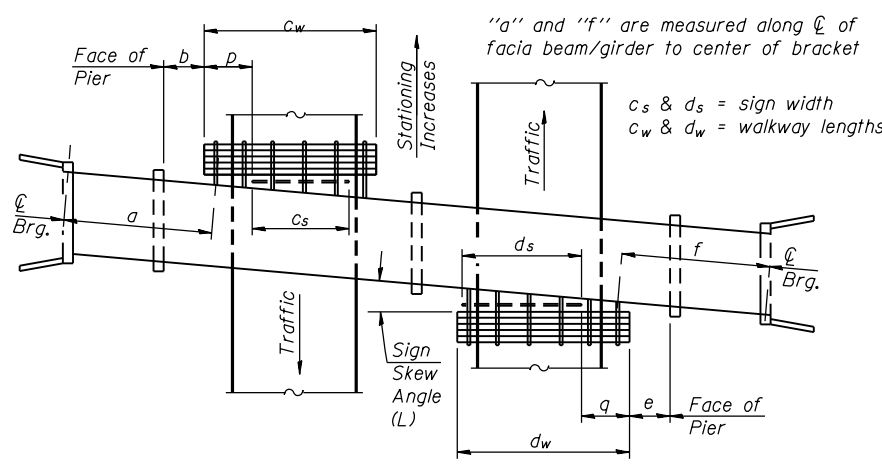
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum embedment in concrete shall be 9".

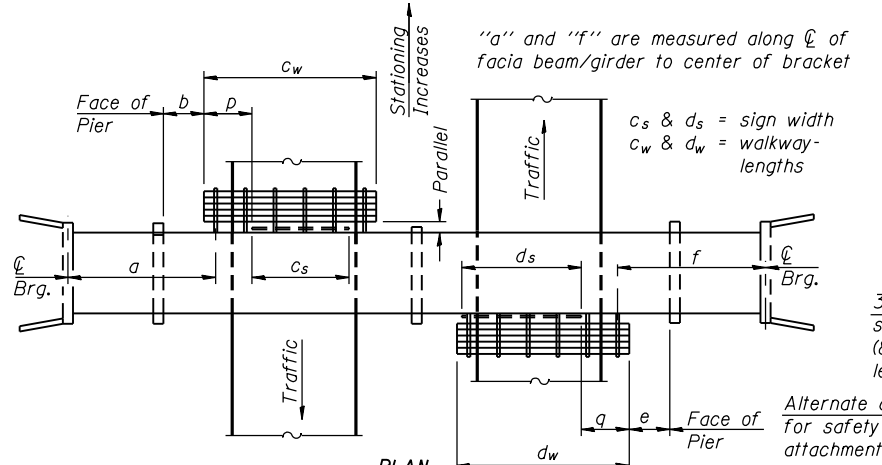
- (1) Bracket spacing $g \leq 6'-0"$, max. Spacing shall be uniform if possible but may vary $\pm 6"$ to miss existing obstruction (rail post, light poles, web stiffeners, splice plates, etc.). Adjust bracket lengths accordingly on skewed structures.
- (2) Any design modifications shall be based on the current version of applicable specifications and submitted for the Engineer's approval.
- (3) Unit price includes grating, handrail, brackets, supports, anchor bolts, fasteners, fabrication, delivery, erection, field drilling and other necessary items. Limits of payment are based on grating length (c_w , d_w) unless otherwise specified. For Safety Chain Details and Details D, F and G, see Base Sheet BM-4.
- (4) If walkway bracket at safety chain location is behind sign, add angle to bracket. See detail on Base Sheet BM-4.

TOTAL BILL OF MATERIAL

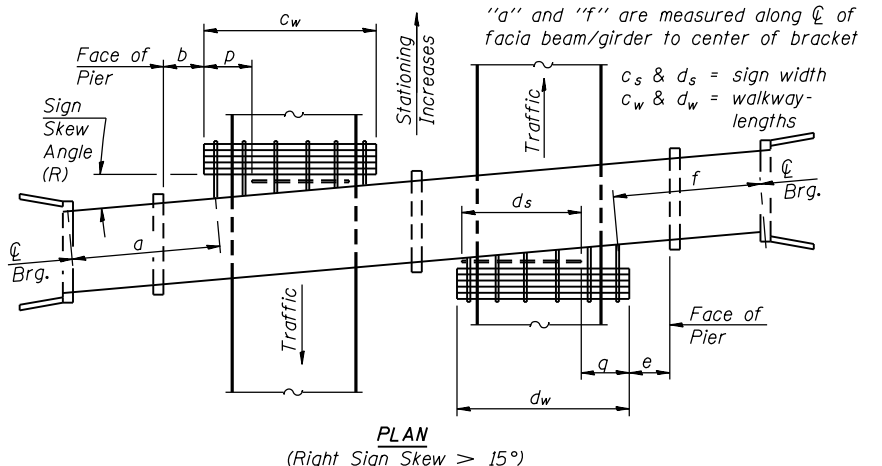
(3) OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	Foot	17
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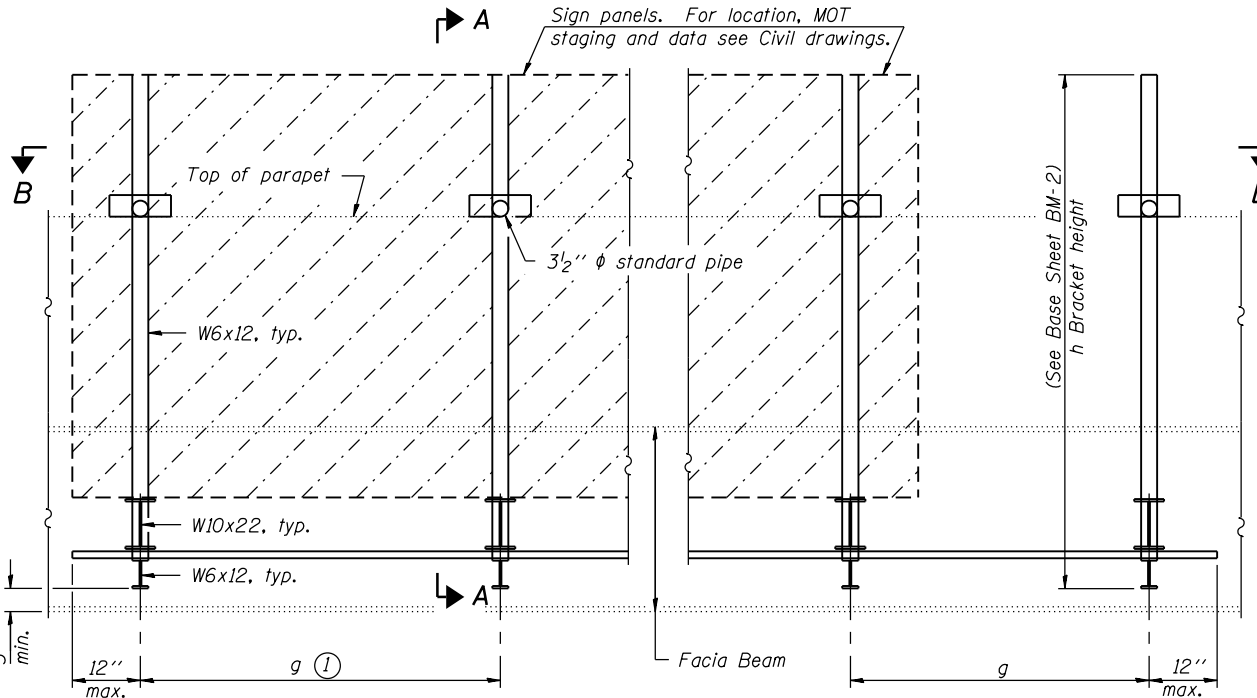
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



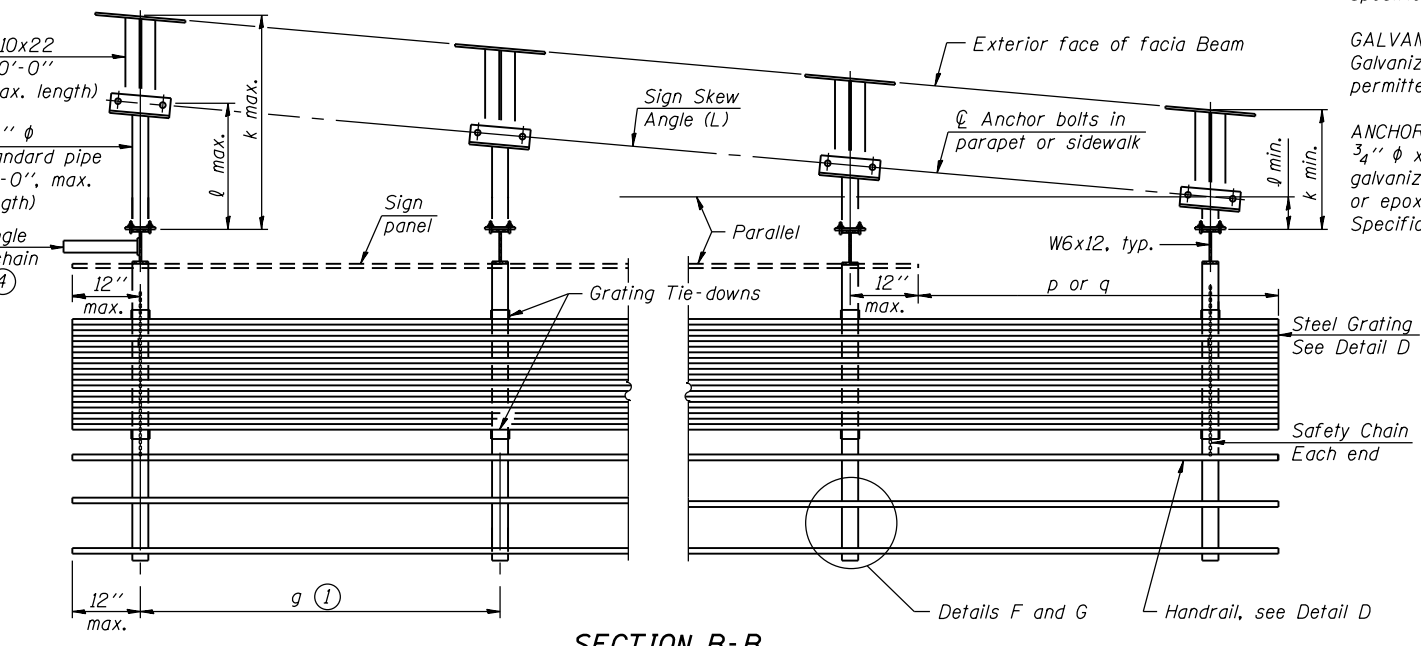
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



TYPICAL FRONT ELEVATION
(With lights, safety chain and handrail omitted for clarity.)



SECTION B-B
(Shown: Left Sign Skew > 15°)

Structure Number	Sign Skew Angle (L) or (R)	Bridge Station	Bridge Structure Number	Contract Route Designation	a	b	c _s	c _w	d _s	d _w	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (c _w + d _w)
1B0161094R052.2	0	6+45.28	016-0478	90/94/290	-	-	-	-	16'-6"	17'-0"	-	50'-6"	5'-0"	4	-	0	17'-0"

Dimensions a, b, e, f & g may vary as approved by the Engineer, see (1).
When $c_w < c_s$ and/or $d_w < d_s$, use alternate brackets without walkway supports where applicable, see (3).

60W28_SignStructure_Sheet107.dgn



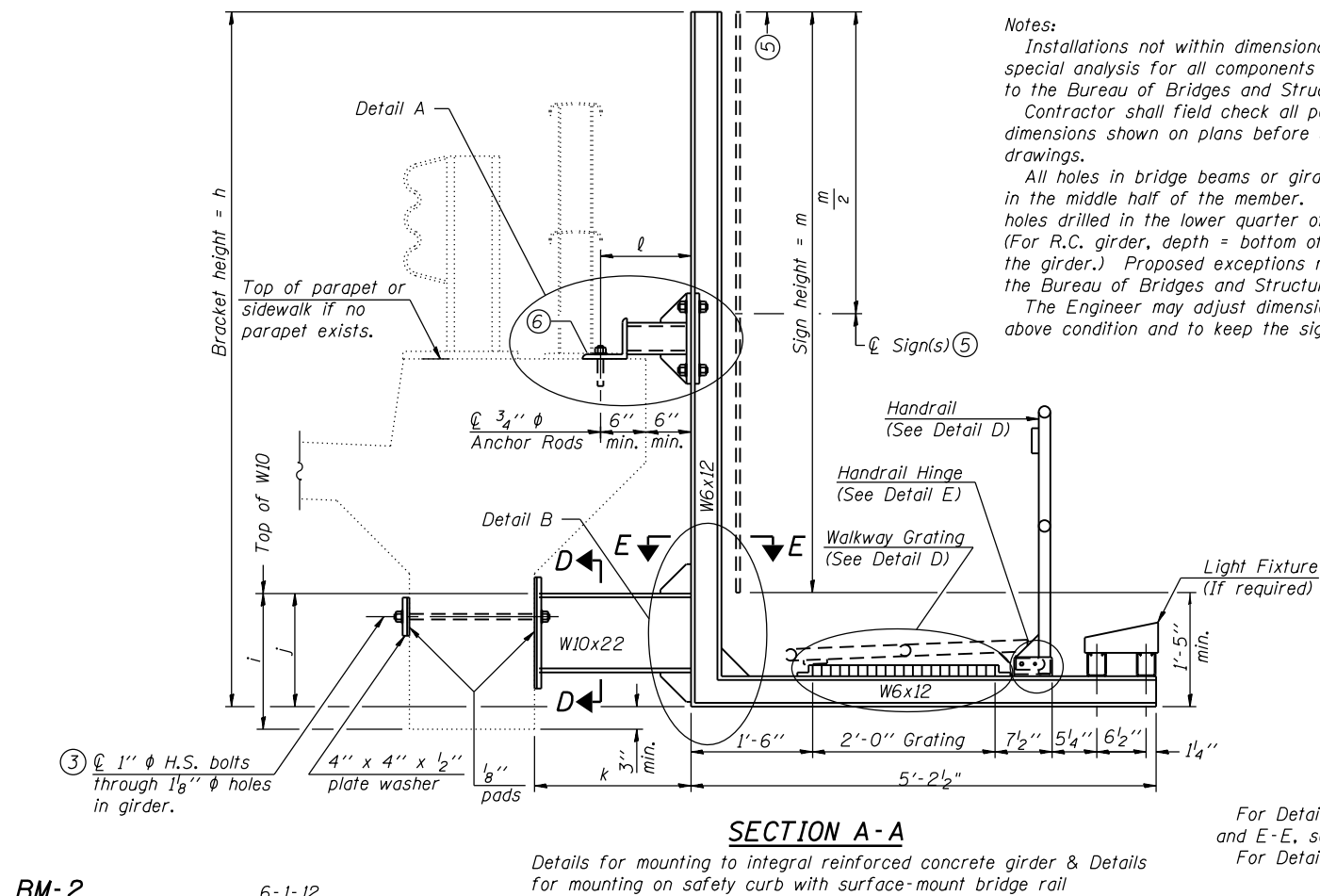
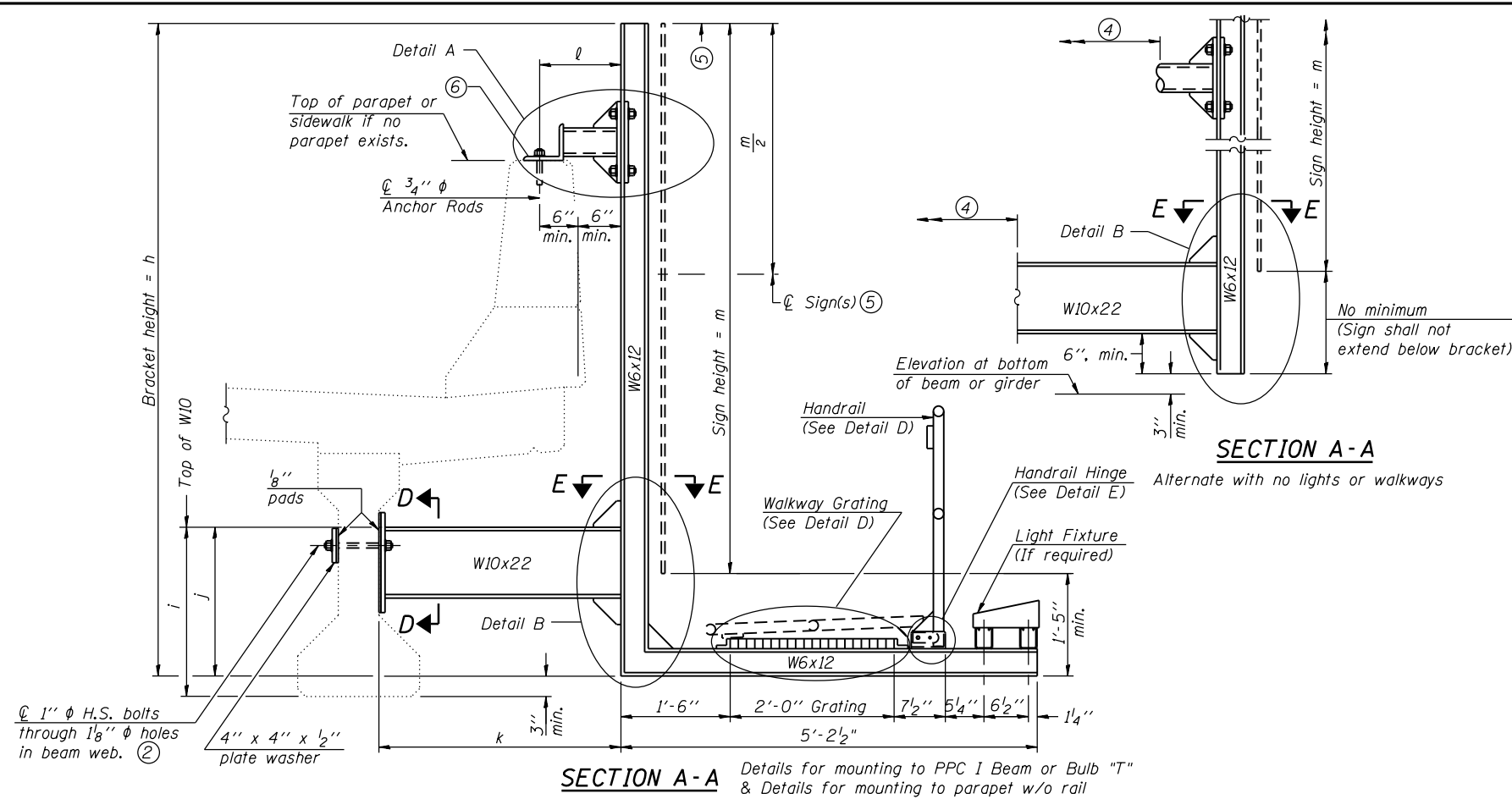
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PLOT SCALE = N.T.S.	CHECKED - DD	REVISED
PLOT DATE = 5/12/2014	DRAWN - VP	REVISED
	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

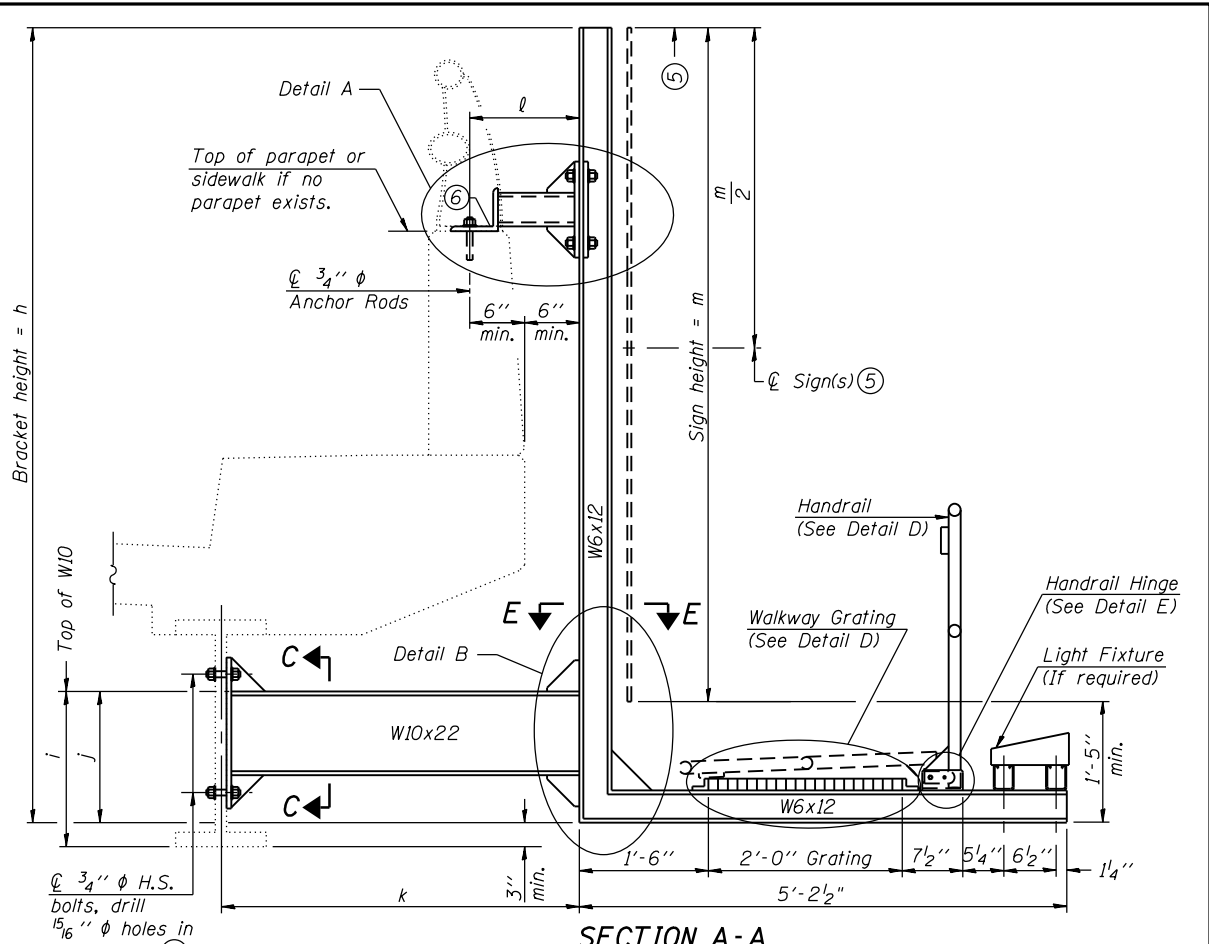
BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION

SHEET NO. SOH-07OF SOH-10SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 288
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	



Notes:
 Installations not within dimensional limits shown require special analysis for all components and must be submitted to the Bureau of Bridges and Structures for approval. Contractor shall field check all pertinent existing bridge dimensions shown on plans before submitting shop drawings.
 All holes in bridge beams or girders should be located in the middle half of the member. There shall be no holes drilled in the lower quarter of the member's depth. (For R.C. girder, depth = bottom of deck to bottom of the girder.) Proposed exceptions must be approved by the Bureau of Bridges and Structures.
 The Engineer may adjust dimension "i" to meet the above condition and to keep the sign level.

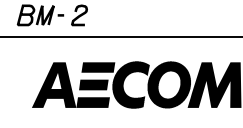


- 1) Holes in new steel members may be drilled in the fabrication shop or in the field. Field drill existing members.
- 2) For new PPC I beams, holes shall be formed during casting. For existing PPC I beams, prestressing strand locations shall be determined and spaced to miss strands by 6", min. Minimize spalling during field drilling of existing beams.
- 3) For new construction, form holes. For existing RC beams, locate primary reinforcement and space holes to miss by 6", min. Minimize spalling and concrete fracturing/damage during field drilling of existing concrete. Spalls over 1/4" deep or beyond the coverage of the 4x4 plate washer shall be repaired with epoxy mortar before installing washer.
- 4) For attachment details of 3/2" pipe and W10x22, see other sections as applicable.
- 5) Sign shall not extend more than 6" above top of bracket, and this dimension may vary to keep sign level if bridge is on grade or vertical curve. Multiple signs of various heights shall share a common horizontal centerline and use equal bracket heights. If no sign is attached to a W6x12 vertical (bracket only supporting walkway), dimension h shall be the same as an adjacent bracket with a sign attached, unless Engineer specifically directs shorter brackets due to locational restraints on future uses. (See Detail A for minimum bracket height.)
- 6) For bridge mounted sign structures installed on new bridges with railing, during design, bracket spacing must be coordinated with railing post spacing and the Contractor must install upper brackets prior to railing installation. For bridge mounted sign structures installed on existing bridges with railing, during design, brackets spacing must be coordinated with railing post spacing and the Contractor must temporarily remove sections of railing to facilitate upper bracket installation. If it is determined during design that existing railings can't be removed, alternate upper connection details must be developed for the contract plans and approved by the Bureau of Bridges and Structures.

Structure Number	Station	h	i	j	k max. (10'-0" max.)	l max. (8'-0" max.)	m (15'-0" max.)
1B0161094R052.2	6+45.28	11'-5"	*	1'-6"	4'-3"	1'-6"	10'-0"

* See Notes.

For Details A & B, Sections C-C, D-D and E-E, see Base Sheet BM-3.
 For Details D & E, see Base Sheet BM-4.



USER NAME = patelvl	DESIGNED - VP	REVISD
PLOT SCALE = N.T.S.	CHECKED - DD	REVISD
PLOT DATE = 5/12/2014	DRAWN - VP	REVISD
	CHECKED - ATB	REVISD

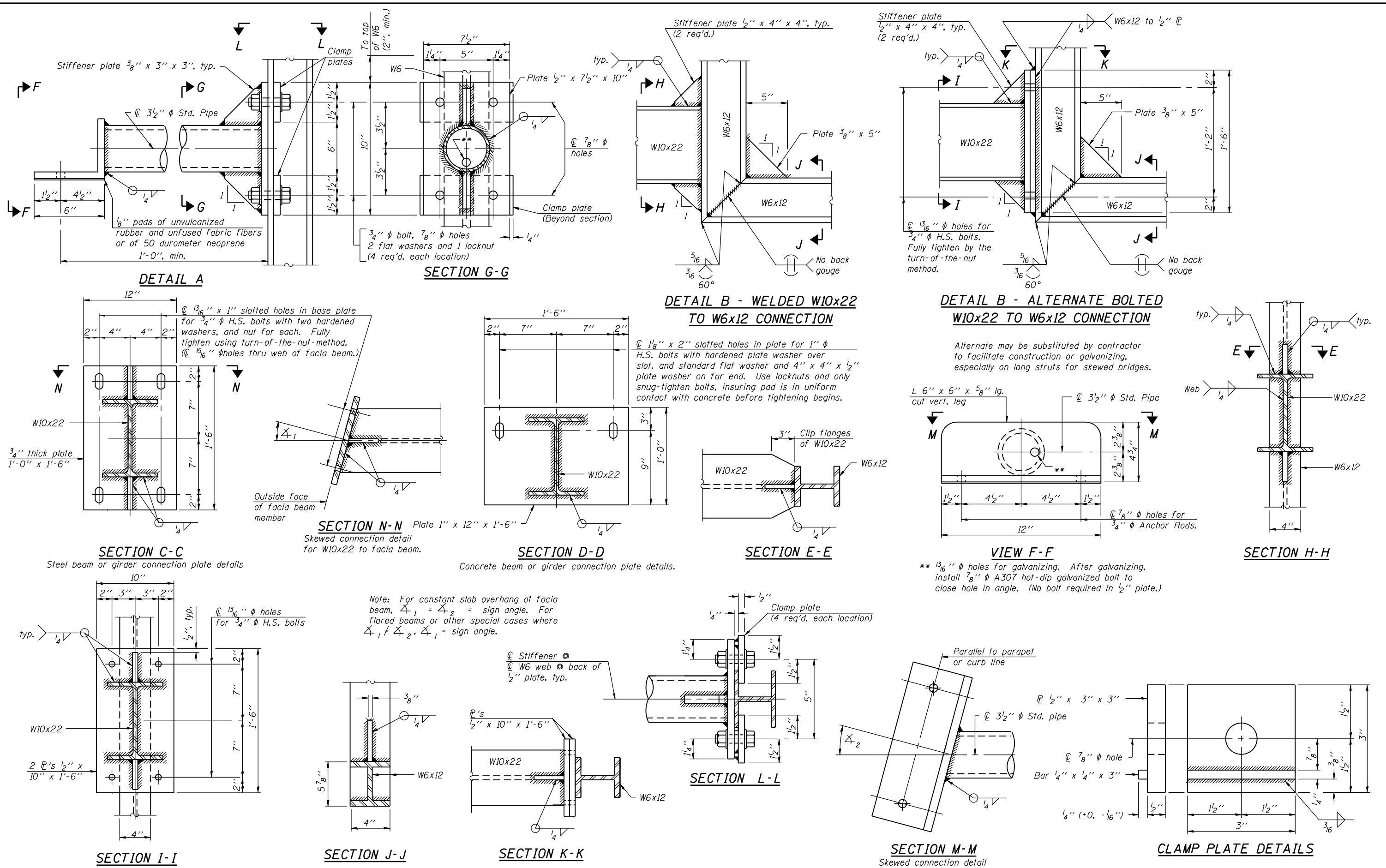
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE MOUNT SIGN STRUCTURES
 WALKWAY AND CONNECTION DETAILS

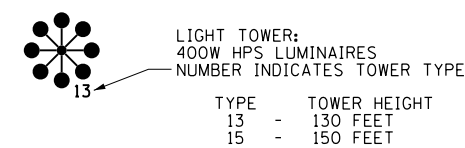
SHEET NO. SOH-080F SOH-10 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 289
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

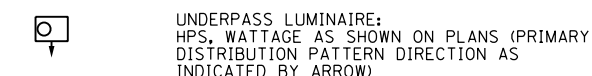
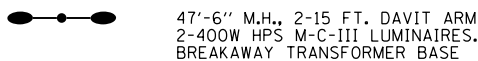
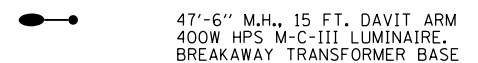
60W28_SignStructure_Sheet08.dgn



ELECTRICAL SYMBOLS FOR PROPOSED WORK



LIGHTING UNIT: TYPE AS INDICATED



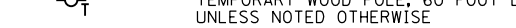
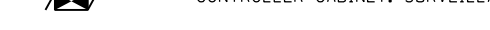
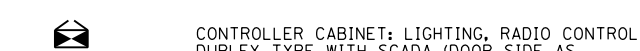
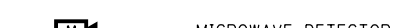
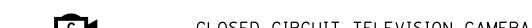
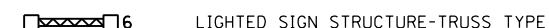
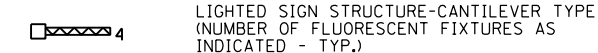
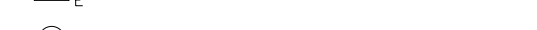
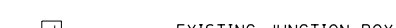
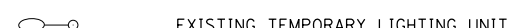
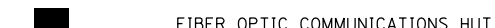
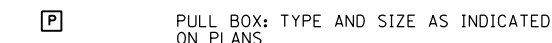
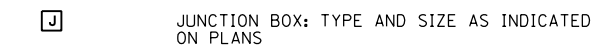
TYPE E1: PRECAST CONCRETE, 21.5"x21.5"x30", IDOT STANDARD 814001

TYPE E2: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x30", IDOT STANDARD 814001

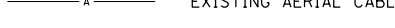
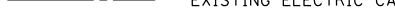
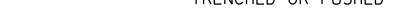
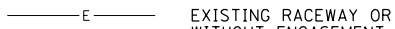
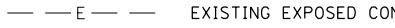
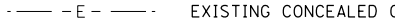
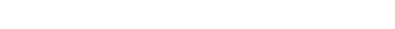
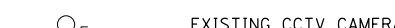
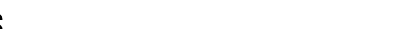
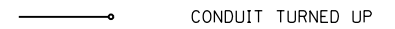
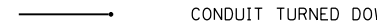
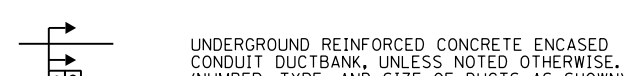
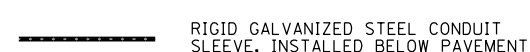
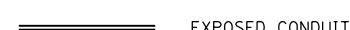
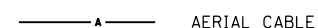
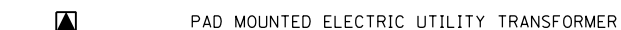
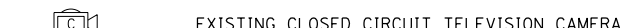
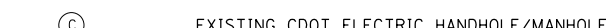
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TYPE S1: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x36"

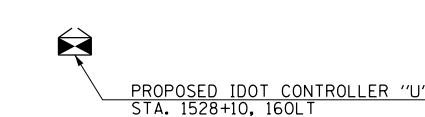
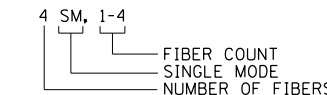
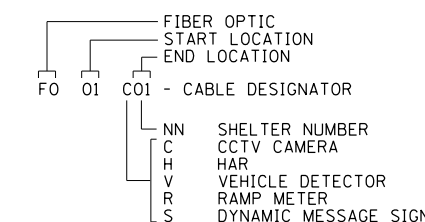
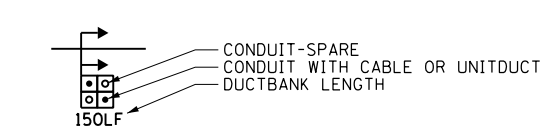
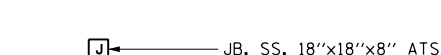
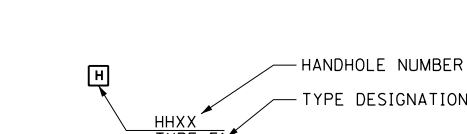
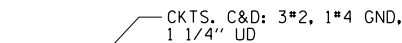
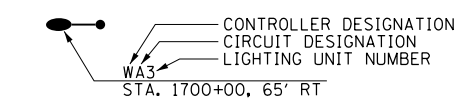
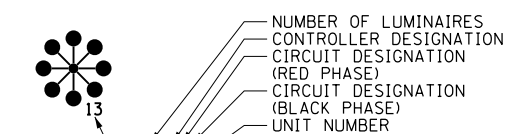
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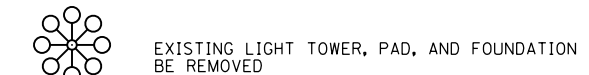
ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS



GENERAL ELECTRICAL CALLOUTS



TYPICAL EXISTING TO BE REMOVED SYMBOLS



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D160W28-sht-Light-01
 USER NAME = myersc
 PLOT SCALE = 1:8000 / in.
 PLOT DATE = 3/21/2014

DESIGNED - WDS
 DRAWN - CAM
 CHECKED - WDS
 DATE - 03/28/14

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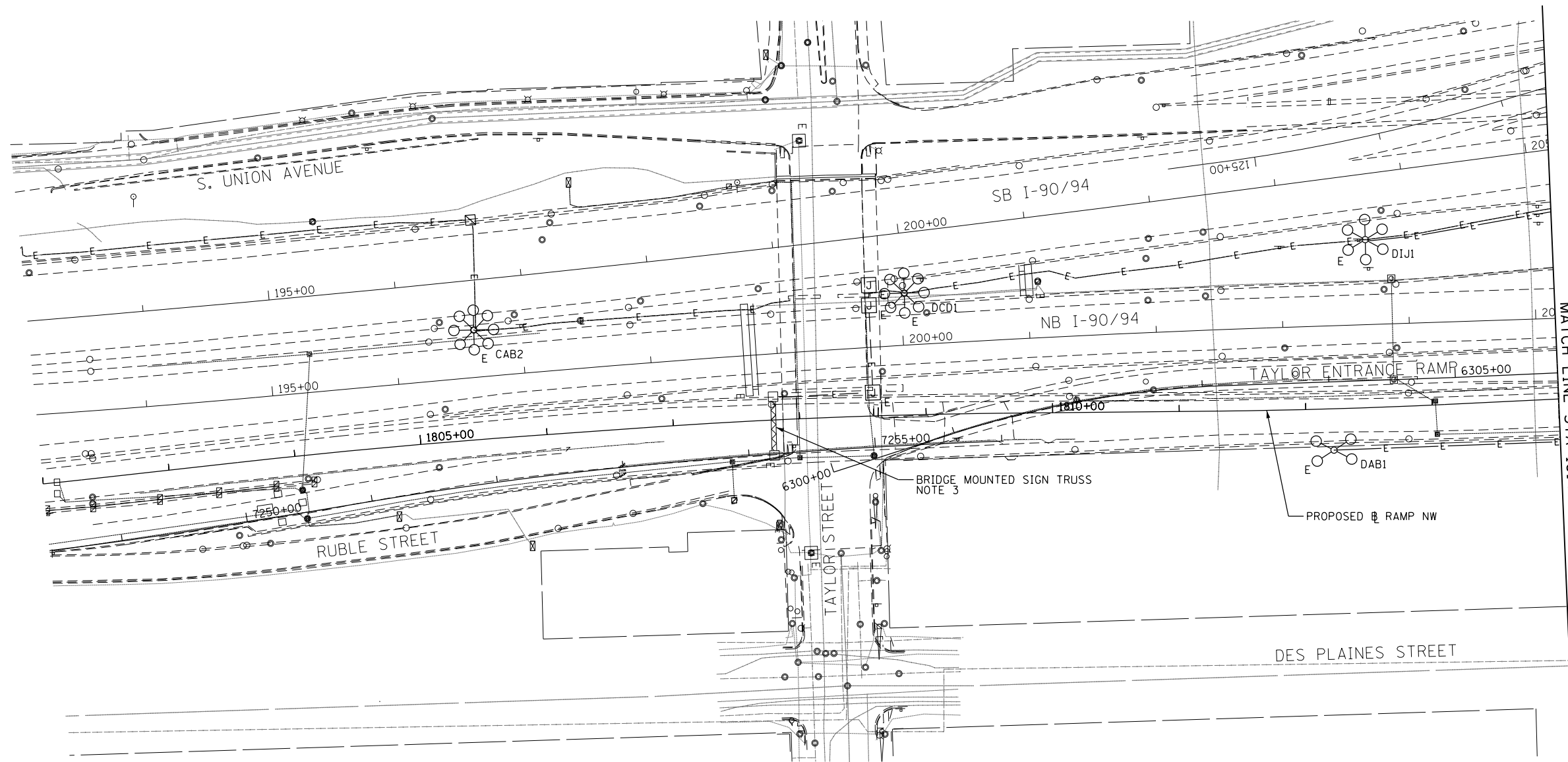
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET 1 OF 17 SHEETS STA. TO STA.

IDOT ELECTRICAL SYMBOLS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	291
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

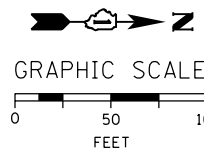
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MATCH LINE STA 1814+00

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
3. DISCONNECT THE EXISTING SIGN LIGHTING ELECTRICAL FEED AND REMOVE CABLES BACK TO THE NEAREST SPLICE POINT. SIGN LUMINAIRES AND ALL ELECTRICAL EQUIPMENT MOUNTED TO SIGN STRUCTURE WILL BE REMOVED AS PART OF THE STRUCTURE. COORDINATE THIS WORK WITH THE SIGN STRUCTURE REMOVAL.



E-02



D160W28-sht-Light-02
 USER NAME = myersc
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/24/2014

DESIGNED - WDS
 DRAWN - CAM
 CHECKED - WDS
 DATE - 04/28/14

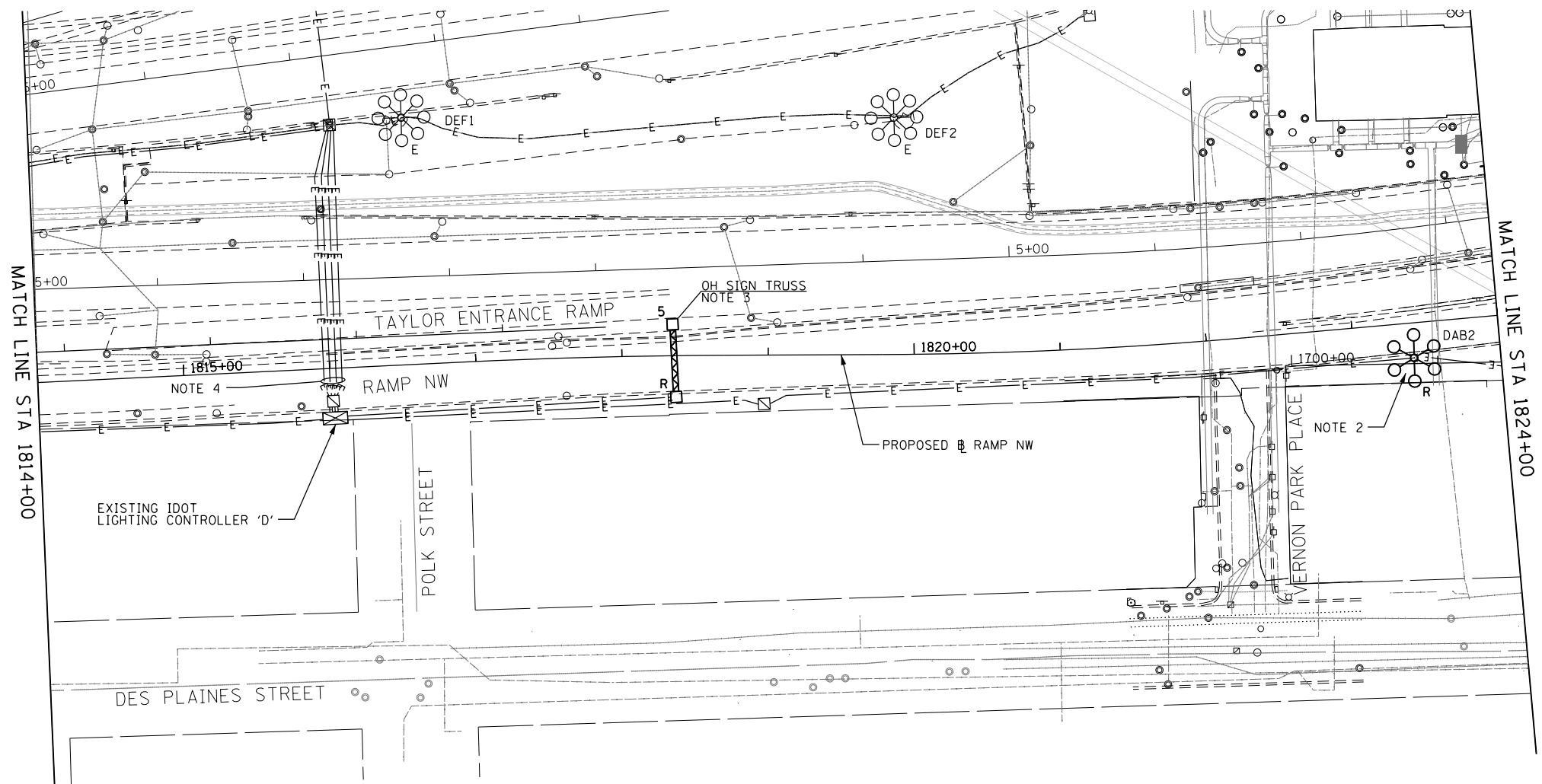
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 EXISTING/TEMPORARY LIGHTING PLAN**

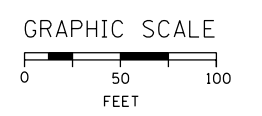
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	292
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING LIGHT TOWER DAB2 SHALL NOT BE REMOVED UNTIL THE PROPOSED LIGHT TOWER DAB2, SHOWN ON DRAWING E-08, HAS BEEN INSTALLED, ENERGIZED, TESTED AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED AND COORDINATED SUCH THAT ONE OF THESE TWO LIGHT TOWERS SHALL BE OPERATIONAL DURING NIGHTTIME HOURS. THE CONTRACTOR SHALL PROVIDE A TEMPORARY LIGHTING SYSTEM, IF NEEDED, TO STAGE THIS WORK AT NO ADDITIONAL COST TO THE CONTRACT. IF A TEMPORARY LIGHTING SYSTEM IS NEEDED, IT SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO IDOT FOR APPROVAL PRIOR TO BEGINNING ANY LIGHT TOWER REMOVAL WORK. THE TEMPORARY LIGHTING SYSTEM SHALL BE DESIGNED TO MATCH OR EXCEED THE EXISTING ILLUMINATION LEVELS PROVIDED BY THE EXISTING IDOT LIGHTING SYSTEM. IF REQUESTED, THE CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR THE TEMPORARY LIGHTING SYSTEM FOR IDOT'S REVIEW AND APPROVAL.
3. DISCONNECT THE EXISTING SIGN LIGHTING ELECTRICAL FEED AND REMOVE CABLES BACK TO THE NEAREST SPLICE POINT. SIGN LUMINAIRES AND ALL ELECTRICAL EQUIPMENT MOUNTED TO SIGN STRUCTURE WILL BE REMOVED AS PART OF THE STRUCTURE. COORDINATE THIS WORK WITH THE SIGN STRUCTURE REMOVAL.
4. THE EXISTING LIGHTING CIRCUITS FED FROM EXISTING IDOT LIGHTING CONTROLLER 'D' MUST REMAIN IN SERVICE FOR THE DURATION OF THE PROJECT. THE EXISTING LIGHTING CONDUITS MUST BE PROTECTED FROM DAMAGE DURING THE CONSTRUCTION OF THE PROPOSED RETAINING WALL. THE COST OF PROTECTING THE EXISTING CONDUITS WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE BID PRICE. ANY DAMAGE INCURRED BY THE EXISTING CONDUITS WILL BE REPAIRED OR REPLACED IN KIND BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT. IF THE CONDUITS CANNOT BE ADEQUATELY PROTECTED DURING THE CONSTRUCTION WORK, THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER FEEDS TO KEEP THE EXISTING LIGHTING SYSTEM OPERATIONAL AT NO ADDITIONAL COST TO THE CONTRACT. IF IT IS DETERMINED THAT TEMPORARY FEEDS ARE REQUIRED, THE CONTRACTOR SHALL SUBMIT THEIR PROPOSED TEMPORARY LIGHTING POWER FEED PLAN TO IDOT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING ANY WORK.
5. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.



E-03

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D160W28-sht-Light-03	DESIGNED - WDS	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - WDS	REVISED -
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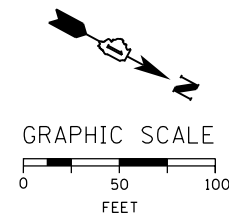
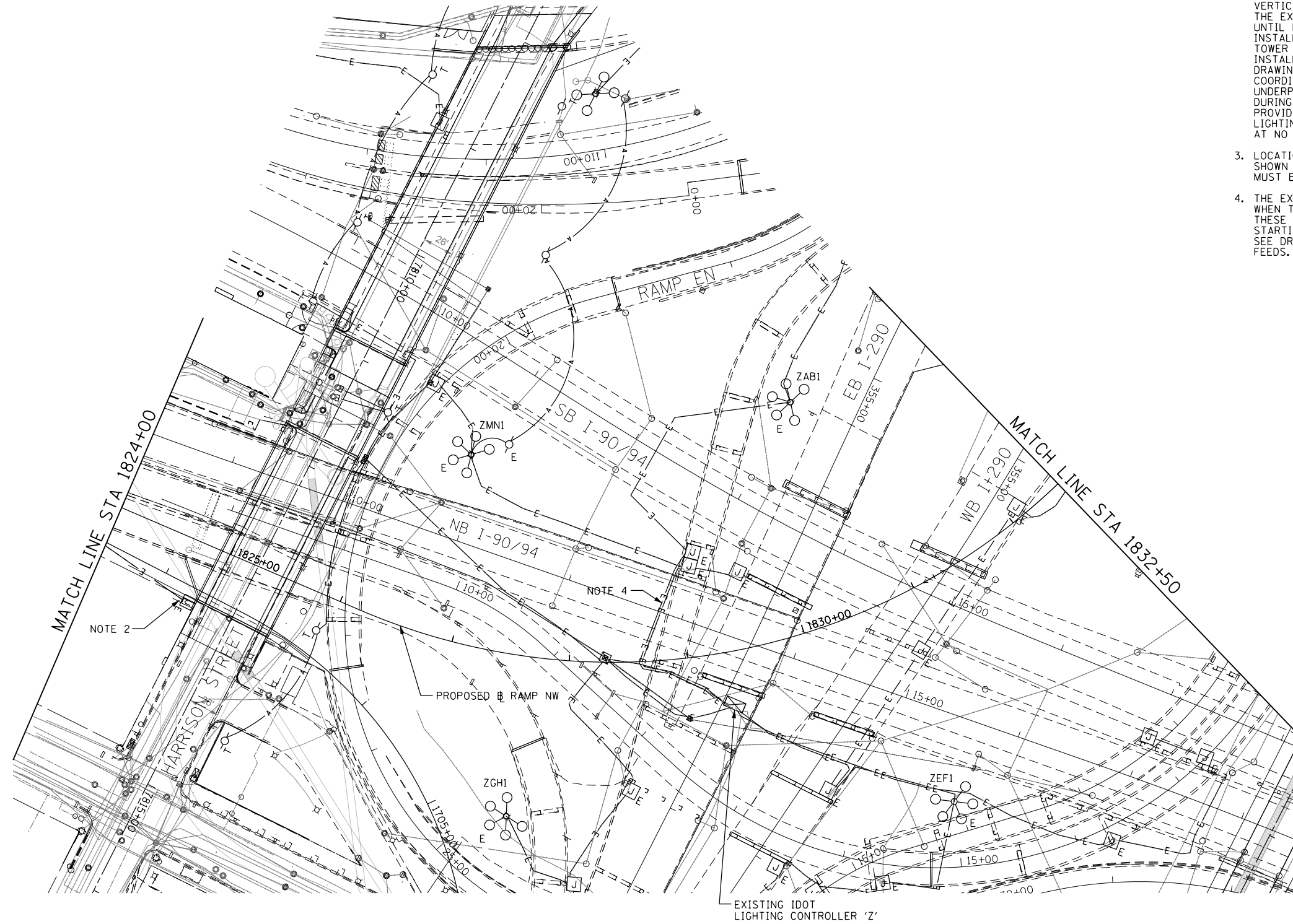
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RAMP NORTHWEST EXISTING/TEMPORARY LIGHTING PLAN		
SCALE: 1"=50'	SHEET 3 OF 17 SHEETS	STA. 1814+00 TO STA. 1824+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	293
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. DISCONNECT THE EXISTING POWER FEED WITHIN THE EXISTING NEW JUNCTION BOX FOR THE E. HARRISON STREET UNDERPASS LIGHTING SYSTEM PROVIDED FROM EXISTING LIGHT TOWER DAB2. THE EXISTING POWER FEED SHALL BE REMOVED FROM THE EXISTING VERTICAL 3" CONDUIT RISER ATTACHED TO STRUCTURE. THE EXISTING POWER FEED SHALL NOT BE REMOVED UNTIL PROPOSED LIGHT TOWER DAB2 HAS BEEN INSTALLED AND THE NEW POWER FEED FROM THE TOWER TO THE EXISTING JUNCTION BOX HAS BEEN INSTALLED AND IS READY TO BE CONNECTED, SEE DRAWINGS E-08 AND E-09. THIS WORK SHALL BE COORDINATED AND STAGED SUCH THAT THE EXISTING UNDERPASS LIGHTING SYSTEM SHALL BE OPERATIONAL DURING NIGHTTIME HOURS. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO THE UNDERPASS LIGHTING SYSTEM, IF NEEDED, TO STAGE THIS WORK AT NO ADDITIONAL COST TO THE CONTRACT.
3. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
4. THE EXISTING LIGHTING CIRCUITS WILL BE DESTROYED WHEN THE NEW NW RAMP PIER 6 IS CONSTRUCTED. THESE CABLES SHALL BE DE-ENERGIZED PRIOR TO STARTING THE EXCAVATION WORK FOR NW RAMP PIER 6. SEE DRAWING E-09 FOR THE NEW LIGHTING CIRCUIT FEEDS.



E-04

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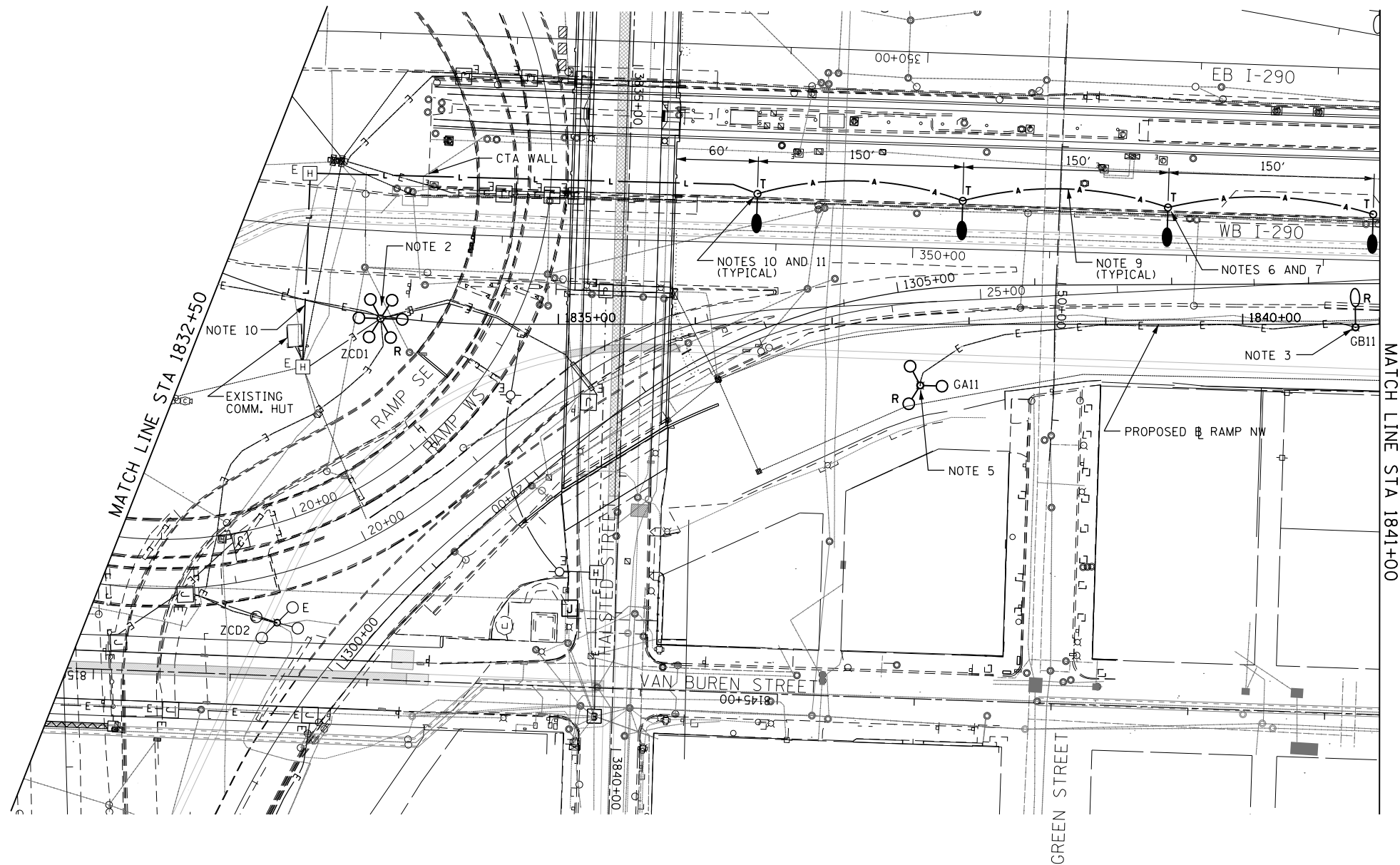
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 PLOT DATE = 4/24/2014

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DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

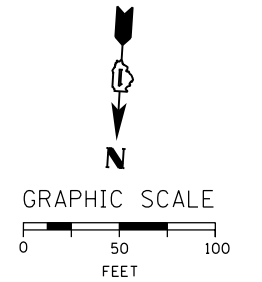
**RAMP NORTHWEST
 EXISTING/TEMPORARY LIGHTING PLAN**
 SCALE: 1"=50' SHEET 4 OF 17 SHEETS STA. 1824+00 TO STA. 1832+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	294
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING LIGHT TOWER ZCD1 SHALL NOT BE REMOVED UNTIL THE PROPOSED LIGHT TOWER ZCD1 AND THE NEW LIGHTING CIRCUITS TO ADJACENT EXISTING TO REMAIN LIGHT TOWERS, SHOWN ON DRAWING E-09, HAVE BEEN INSTALLED, ENERGIZED, TESTED AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED AND COORDINATED SUCH THAT ONE OF THESE TWO LIGHT TOWERS SHALL BE OPERATIONAL DURING NIGHTTIME HOURS. THE CONTRACTOR SHALL PROVIDE A TEMPORARY LIGHTING SYSTEM, IF NEEDED, TO STAGE THIS WORK AT NO ADDITIONAL COST TO THE CONTRACT. IF A TEMPORARY LIGHTING SYSTEM IS NEEDED, IT SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO IDOT FOR APPROVAL PRIOR TO BEGINNING ANY LIGHT TOWER REMOVAL WORK. THE TEMPORARY LIGHTING SYSTEM SHALL BE DESIGNED TO MATCH OR EXCEED THE EXISTING ILLUMINATION LEVELS PROVIDED BY THE EXISTING IDOT LIGHTING SYSTEM. IF REQUESTED, THE CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR THE TEMPORARY LIGHTING SYSTEM FOR IDOT'S REVIEW AND APPROVAL.
3. EXISTING LIGHTING UNIT GB11 SHALL NOT BE REMOVED AND ASSOCIATED LIGHTING CIRCUITS 'GA' AND 'GB' SHALL NOT BE DE-ENERGIZED UNTIL THE TEMPORARY LIGHTING UNIT AND NEW LIGHTING CIRCUIT FOR THIS TEMPORARY LIGHTING UNIT SHOWN ON DRAWING E-10 ARE INSTALLED, ENERGIZED, TESTED AND APPROVED BY IDOT.
4. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
5. EXISTING LIGHT TOWER GA11 TO BE REMOVED PRIOR TO THE RETAINING WALL WORK IN THIS AREA.
6. THE PROPOSED TEMPORARY LIGHTING SYSTEM ALONG WB I-290 MUST BE INSTALLED AND OPERATIONAL PRIOR TO REMOVING EXISTING LIGHT TOWER GA11.
7. THE TEMPORARY LIGHTING SYSTEM INCLUDING WOOD POLES, MAST ARMS, LUMINAIRES AND AERIAL CABLES SHALL BE REMOVED AFTER PROPOSED LIGHT TOWER GA11 HAS BEEN INSTALLED, ENERGIZED, TESTED AND APPROVED BY IDOT. SEE DRAWING E-10.
8. INSTALL THE TEMPORARY LIGHTING UNITS IN GRADE DIRECTLY BEHIND THE MEDIAN BARRIER WALL.
9. TEMPORARY AERIAL CABLES SHALL BE 2-1/C NO. 2 WITH MESSENGER WIRE.
10. PROVIDE A PHOTOCCELL ON EACH OF THE FOUR TEMPORARY LIGHTING UNITS INSTALLED BEHIND THE MEDIAN WALL. THE COST OF PROVIDING THE PHOTOCCELLS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE "LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT" PAY ITEM.
11. PROVIDE A TEMPORARY LIGHTING FEED FROM THE POWER PANEL LOCATED IN THE EXISTING IDOT COMMUNICATIONS HUT TO THE TEMPORARY LIGHTING UNITS AS SHOWN ON THE PLAN. PROVIDE A 2-POLE 30 AMP CIRCUIT BREAKER IN THE EXISTING POWER PANEL. THE TEMPORARY LIGHTING FEED SHALL BE 240 VOLTS AND CONSIST OF 2-1/C NO. 2 AND 1-1/C NO. 4 GROUND (XLP-TYPE USE) CABLES IN A 1 1/4 INCH UNIT DUCT. THE CABLES SHALL BE CONNECTED TO THE NEW CIRCUIT BREAKER WITHIN THE POWER PANEL, ROUTED OUT OF THE PANEL ONTO THE CABLE TRAY AND THEN INSTALLED THROUGH THE EXISTING CONDUITS IN THE FLOOR TO THE EXISTING HANDHOLE LOCATED OUTSIDE THE HUT. THE UNIT DUCT SHALL BE ROUTED FROM THE HANDHOLE SOUTHWARD UNDER WB I-290 TO AN EXISTING HANDHOLE LOCATED IN THE GRASS MEDIAN BETWEEN EB AND WB I-290. THE UNIT DUCT SHALL THEN BE ROUTED FROM THE MEDIAN HANDHOLE WESTWARD IN GRADE TO THE CTA WALL AND ROUTED DOWN THE FACE OF THE WALL INTO GRADE. THE UNIT DUCT SHALL BE INSTALLED IN GRADE WEST ALONG THE WB I-290 MEDIAN BARRIER WALL TO THE TEMPORARY LIGHTING UNITS AS SHOWN ON THE PLANS. THIS WORK SHALL BE COORDINATED WITH THE CONTRACT 60W26 BRIDGE PIER WORK. THE UNIT DUCT SHALL BE INSTALLED IN A LOCATION SUCH THAT THE CONSTRUCTION OF THE NEW HALSTED STREET BRIDGE PIER WILL NOT INTERFERE WITH OR DAMAGE THE TEMPORARY LIGHTING FEED. ANY DAMAGE TO THIS TEMPORARY FEED SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CONTRACT. THE COST TO PROVIDE THE CIRCUIT BREAKER IN THE EXISTING POWER PANEL, CONNECT THE CABLES TO THE NEW CIRCUIT BREAKER, ROUTE THE CABLES FROM THE PANEL OUT OF THE HUT AND INTO THE EXISTING HANDHOLE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF THE "UNIT DUCT, 600V, 2-1/C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE" PAY ITEM.



E-05

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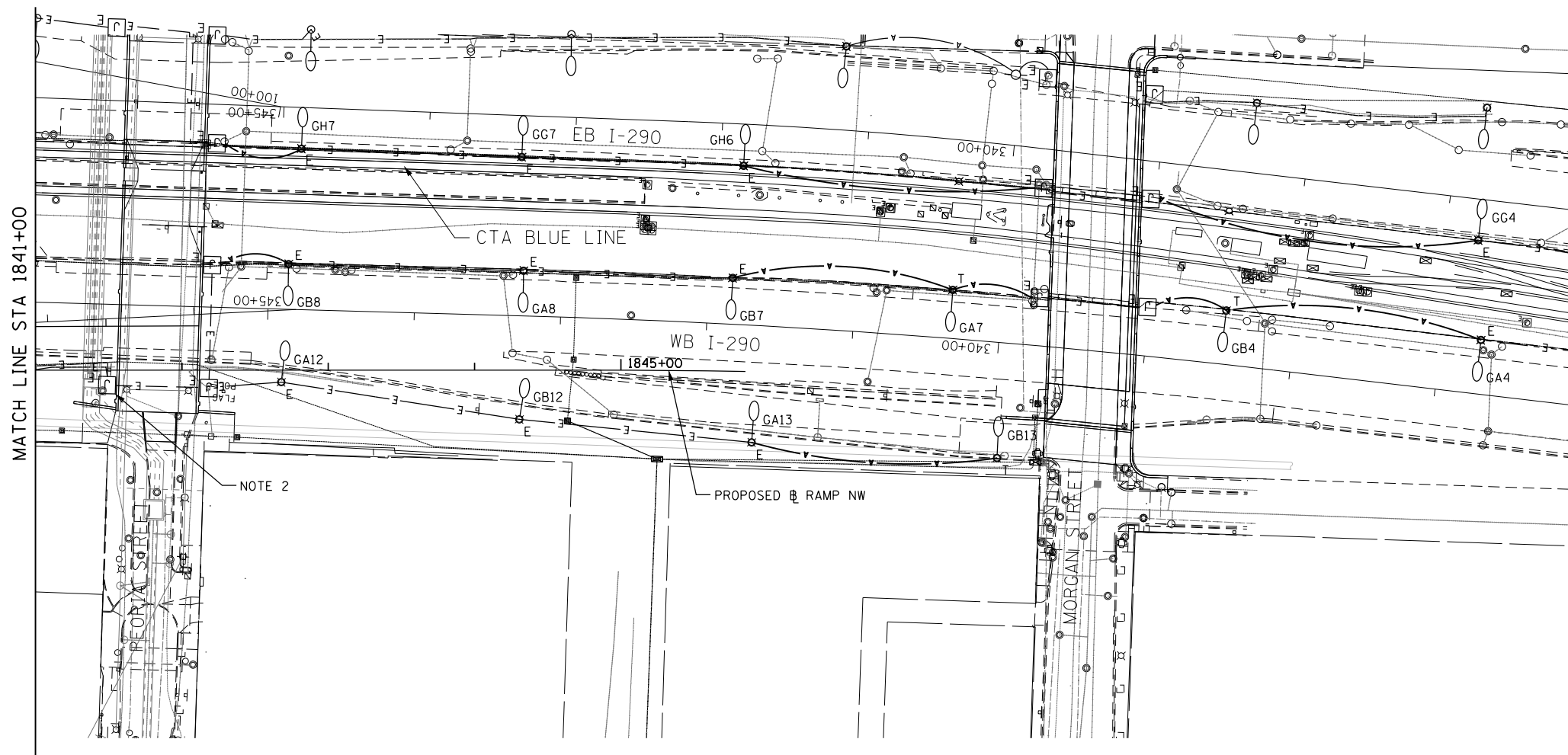
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DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 EXISTING/TEMPORARY LIGHTING PLANS**
 SCALE: 1"=50'
 SHEET 5 OF 17 SHEETS
 STA. 1832+50 TO STA. 1841+00

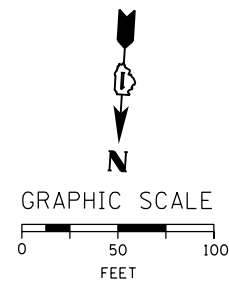
F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 295
CONTRACT NO. 60W26				
ILLINOIS FED. AID PROJECT				

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NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING LIGHTING CIRCUITS 'GA' AND 'GB' ROUTED FROM THE JUNCTION BOX ATTACHED TO THE PEORIA STREET BRIDGE TO EXISTING LIGHTING UNIT GB11. DISCONNECT THE EXISTING POWER FEED TO EXISTING LIGHTING UNIT GB11 AND REMOVE THE EXISTING LIGHTING CIRCUIT CABLES FROM THE 3" CONDUIT RISER TO THE JUNCTION BOX. THE EXISTING POWER FEED SHALL NOT BE REMOVED FROM THE EXISTING CONDUIT ATTACHED TO STRUCTURE UNTIL TEMPORARY LIGHTING UNIT GB11 HAS BEEN INSTALLED AND THE NEW POWER FEED HAS BEEN INSTALLED AND IS READY FOR CONNECTION. SEE DRAWINGS E-10 AND E-11. THIS WORK SHALL BE COORDINATED AND STAGED SUCH THAT EXISTING TOWER GA11 IS OPERATIONAL DURING NIGHTTIME HOURS. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER TO TOWER GA11, IF NEEDED, TO STAGE THIS WORK AT NO ADDITIONAL COST TO THE CONTRACT.
3. LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.



E-06



D160W28-sht-Light-06
 USER NAME = myersc
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/24/2014

DESIGNED - WDS	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

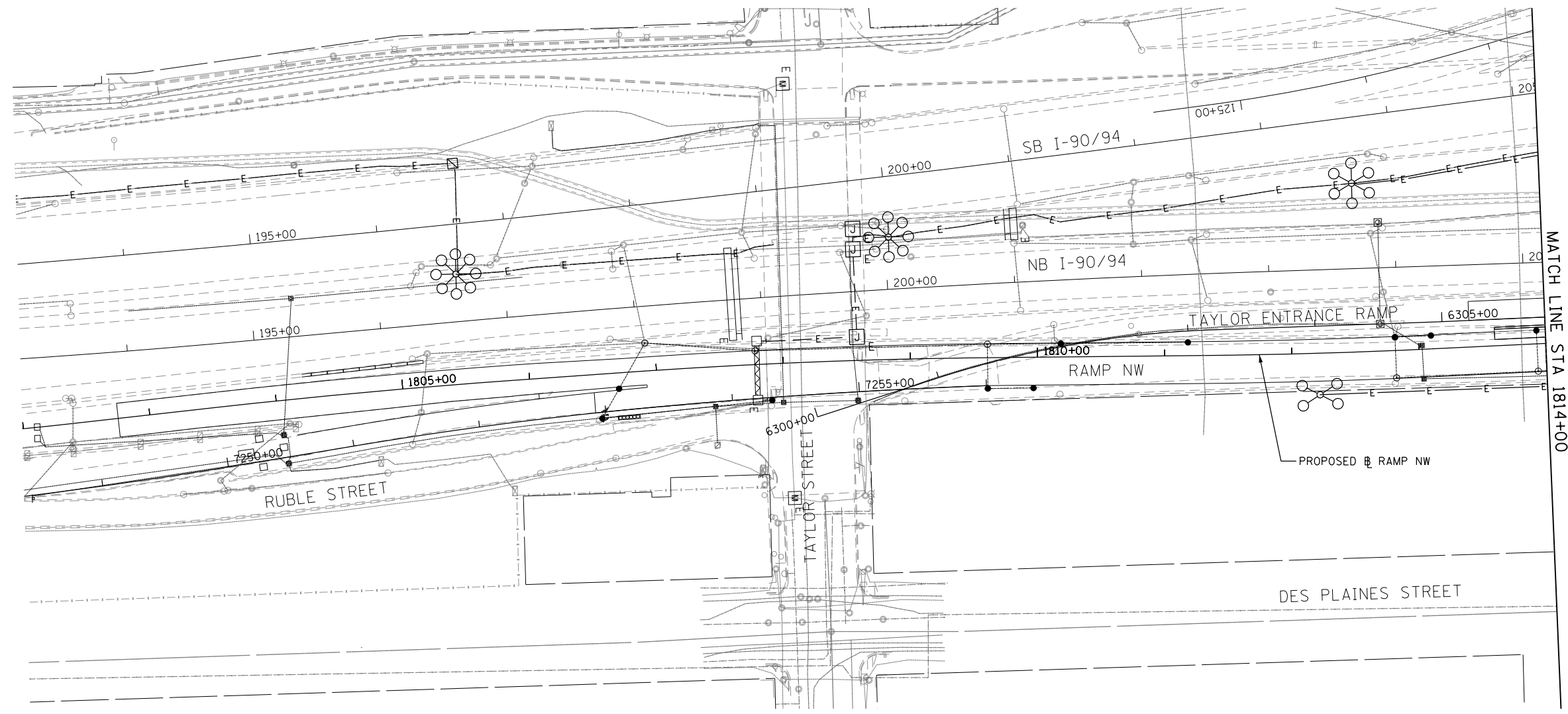
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 EXISTING/TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 6 OF 17 SHEETS STA. 1841+00 TO STA. 1846+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	296
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

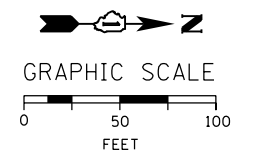
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FOR INFORMATION ONLY

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.



E-07



D160W28-sht-Light-07
 USER NAME = myersc
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/24/2014

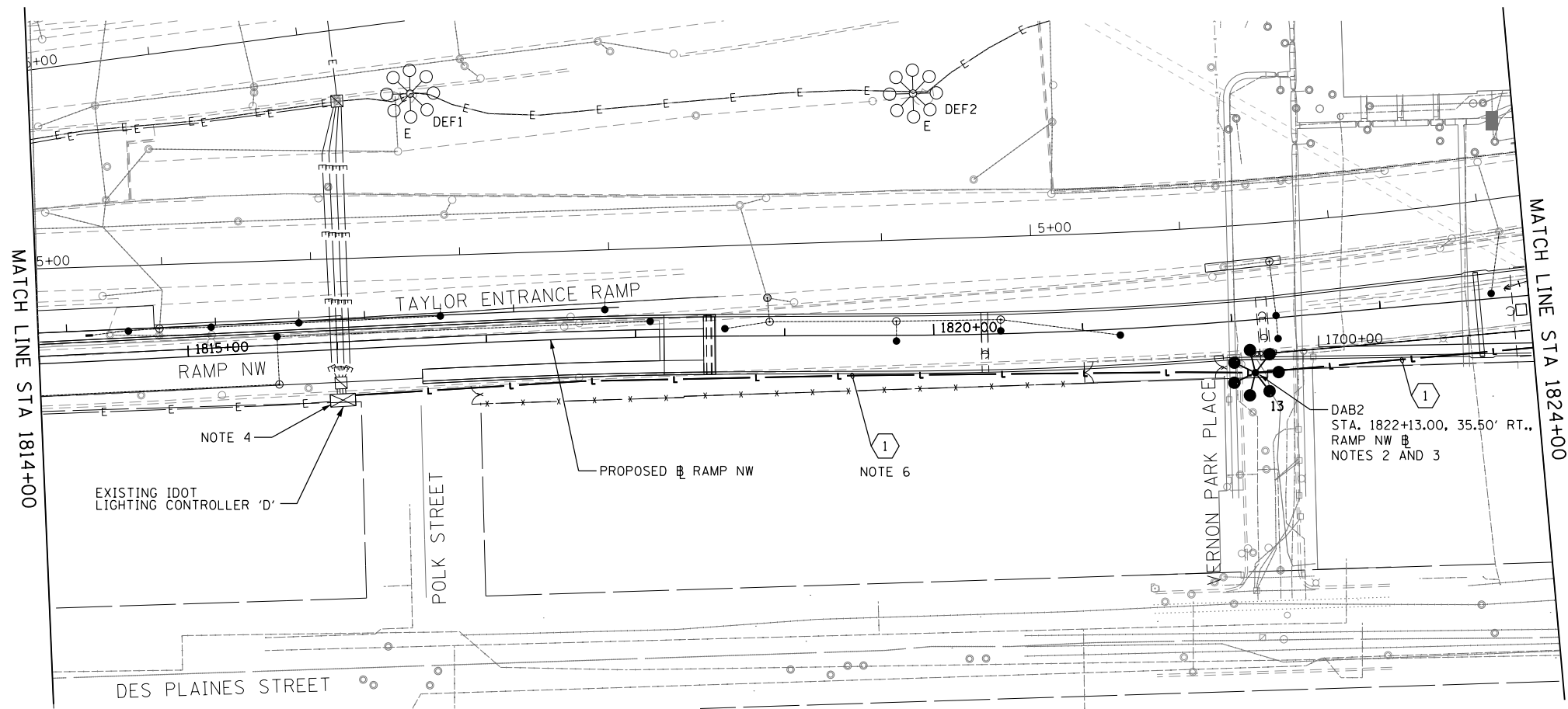
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DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 PROPOSED LIGHTING PLAN**
 SCALE: 1"=50' SHEET 7 OF 17 SHEETS STA. 1802+00 TO STA. 1814+00

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 297
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

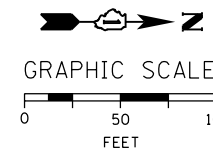
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1 CKTS. DA & DB: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT

NOTES:

- SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- SEE DRAWING E-16 FOR LIGHT TOWER FOUNDATION SCHEDULE. COORDINATE TOWER INSTALLATION WITH CIVIL WORK AT VERNON PARK PLACE. SEE THE CIVIL PLANS FOR ADDITIONAL DETAILS.
- SEE DRAWING E-17 FOR LIGHT TOWER CONDUIT AND GROUNDING INSTALLATION DETAILS. SEE THE CIVIL PLANS FOR SIDEWALK AND CURB WORK AROUND THE FOUNDATION. NO SERVICE PAD WILL BE INSTALLED FOR THIS LIGHT TOWER.
- PROVIDE A NEW LIGHTING FEED TO LIGHT TOWER DAB2 FROM EXISTING IDOT LIGHTING CONTROLLER 'D' AS SHOWN.
- SEE DRAWING E-13 FOR IDOT LIGHTING CONTROLLER 'D' WIRING DIAGRAM.
- INSTALL THE UNIT DUCT IN EXISTING IDOT ROW APPROXIMATELY 2.5 FEET BEHIND THE EXISTING RETAINING WALL NO. 1.



E-08



DI60W28-sht-Light-08
 USER NAME = myersc
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/24/2014

DESIGNED - WDS	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 PROPOSED LIGHTING PLAN**

SCALE: 1"=50' SHEET 8 OF 17 SHEETS STA. 1814+00 TO STA. 1824+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	298
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

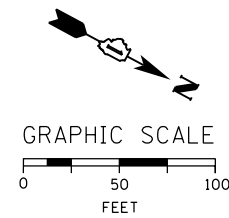
- ① CKTS. ZC & ZD: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT
- ② CKTS. ZA & ZB: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT
- ③ CKTS. ZM & ZN: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. INTERCEPT CABLES FOR EXISTING LIGHTING CIRCUITS 'C' AND 'D' FROM CONTROLLER 'Z' IN EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND CONNECT THE NEW LIGHTING CABLES TO PROVIDE POWER TO PROPOSED LIGHT TOWER ZCD1.
3. SEE DRAWING E-16 FOR LIGHT TOWER FOUNDATION SCHEDULE. COORDINATE TOWER INSTALLATION WITH CIVIL WORK IN THE AREA. SEE THE CIVIL PLANS FOR ADDITIONAL DETAILS.
4. SEE DRAWING E-17 FOR LIGHT TOWER SERVICE PAD INSTALLATION DETAILS.
5. PROVIDE A NEW LIGHTING FEED FROM THE EXISTING JUNCTION BOX ATTACHED TO THE HARRISON STREET BRIDGE TO PROPOSED TOWER DAB2 AS SHOWN. ROUTE UNIT DUCT THROUGH EXISTING CONDUIT ATTACHED TO STRUCTURE TO EXISTING JUNCTION BOX.
6. SEE DRAWING E-14 FOR IDOT CONTROLLER 'G' WIRING DIAGRAM.
7. THE NEW LIGHTING CIRCUIT FEEDS ARE PROVIDED TO REPLACE THE EXISTING LIGHTING CIRCUITS DESTROYED BY THE NW RAMP PIER 6 WORK. THESE NEW CIRCUITS MUST BE INSTALLED PRIOR TO STARTING THE PIER WORK.
8. ROUTE THE NEW LIGHTING CIRCUITS TO AVOID CONFLICTS WITH EXISTING AND PROPOSED BRIDGE PIERS.



ZCD1
STA. 1832+82.91, 95.20' RT.
RAMP NW
NOTES 3 AND 4



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D160W28-sht-Light-09
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PLOT DATE = 4/24/2014

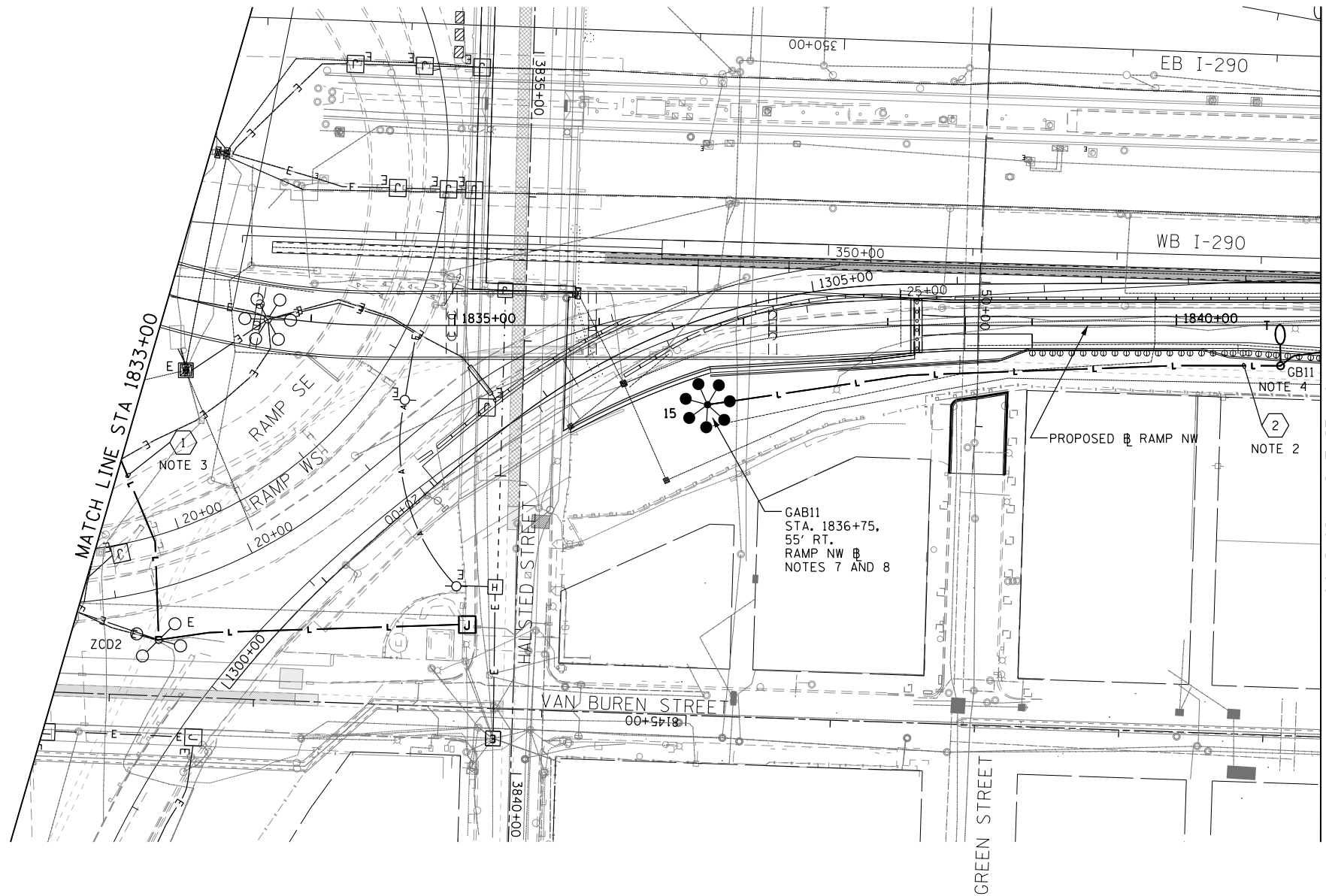
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CHECKED - WDS	REVISED -
DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
PROPOSED LIGHTING PLAN**
SCALE: 1"=50'
SHEET 9 OF 17 SHEETS
STA. 1824+00 TO STA. 1833+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	299
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

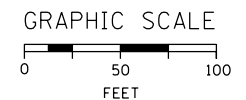
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- 1 CKTS. ZC & ZD: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT
- 2 CKTS. GA & GB: 3-1/C NO. 2 & 1-1/C NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT NOTE 5

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. PROVIDE A NEW LIGHTING FEED FROM TEMPORARY LIGHT UNIT GB11 TO PROPOSED LIGHT TOWER GAB11 AS SHOWN.
3. PROVIDE A NEW LIGHTING FEED FROM EXISTING LIGHT TOWER ZCD2 TO PROPOSED LIGHT TOWER ZCD1 AS SHOWN.
4. PROVIDE TEMPORARY LIGHT UNIT GB11 AS SHOWN. THE TEMPORARY LIGHTING UNIT SHALL BE INSTALLED 10 FEET BACK FROM THE FACE OF NEW NOISE WALL OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE COORDINATED WITH THE CONSTRUCTION OF RETAINING WALL NO. 4 AND THE ASSOCIATED NOISE WALL.
5. EXISTING IDOT LIGHTING CONTROLLER 'G' IS LOCATED ON THE NORTH SIDE OF WB I-290 JUST EAST OF RACINE AVE.
6. SEE DRAWING E-14 FOR IDOT CONTROLLER 'G' WIRING DIAGRAM.
7. SEE DRAWING E-16 FOR LIGHT TOWER FOUNDATION SCHEDULE. COORDINATE TOWER INSTALLATION WITH CIVIL AND STRUCTURAL WORK IN THE AREA. SEE CIVIL AND STRUCTURAL PLANS FOR ADDITIONAL DETAILS.
8. SEE DRAWING E-17 FOR LIGHT TOWER SERVICE PAD INSTALLATION DETAILS.



DI60W28-sht-Light-10
 USER NAME = myersc
 PLOT SCALE = 50.0000' / in.
 PLOT DATE = 4/24/2014

DESIGNED - WDS
 DRAWN - CAM
 CHECKED - WDS
 DATE - 04/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RAMP NORTHWEST
 PROPOSED LIGHTING PLAN**

SCALE: 1"=50' SHEET 10 OF 17 SHEETS STA. 1833+00 TO STA. 1841+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	300
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				