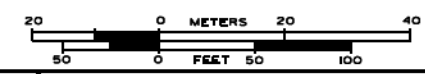


UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
IDOT	= ELECTRIC
PEOPLE'S ENERGY	= GAS

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/14/13 THROUGH 7/25/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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



**Cardno TBE**

CLAASSEN, WHITE & ASSOCIATES, P.C.  
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**Dynasty Group**  
Engineers & Surveyors

TBE Job No. IL0950531 563, 647, 737  
SUE Plan Page 1 of 12

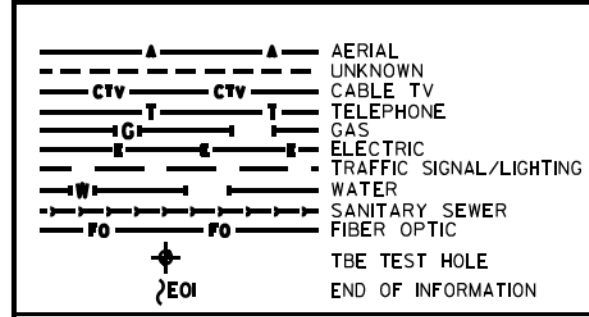
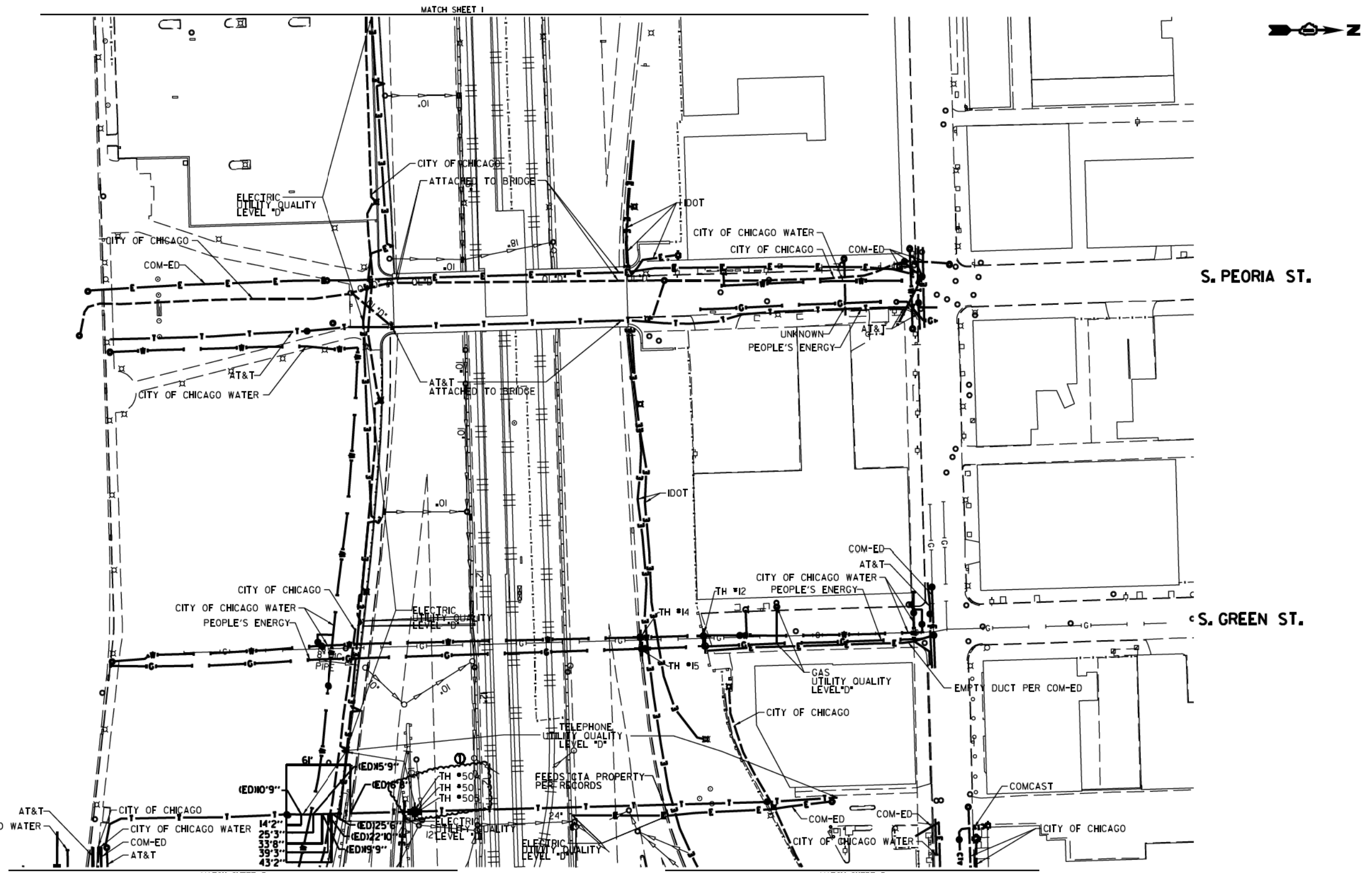
Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED 12/20/16
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED
Utility Quality Level "C": Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D": Records Research	DATE 12/18/15	REVISED

DESIGNED JP	REVISED 12/20/16
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	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	888	301
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12				



**UTILITY OWNERS**

AT&T = TELEPHONE  
 COMCAST = CABLE TV  
 COM-ED = ELECTRIC  
 CITY OF CHICAGO = ELECTRIC  
 CITY OF CHICAGO WATER = WATER  
 IDOT = 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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ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



**Cardno TBE**

CLAASSEN, WHITE & ASSOCIATES, P.C.  
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 (815) 744-3720 clausse@cwawhite.com

**Dynasty Group**  
 Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 2 of 12

DESIGNED JP	REVISED 12/20/16
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

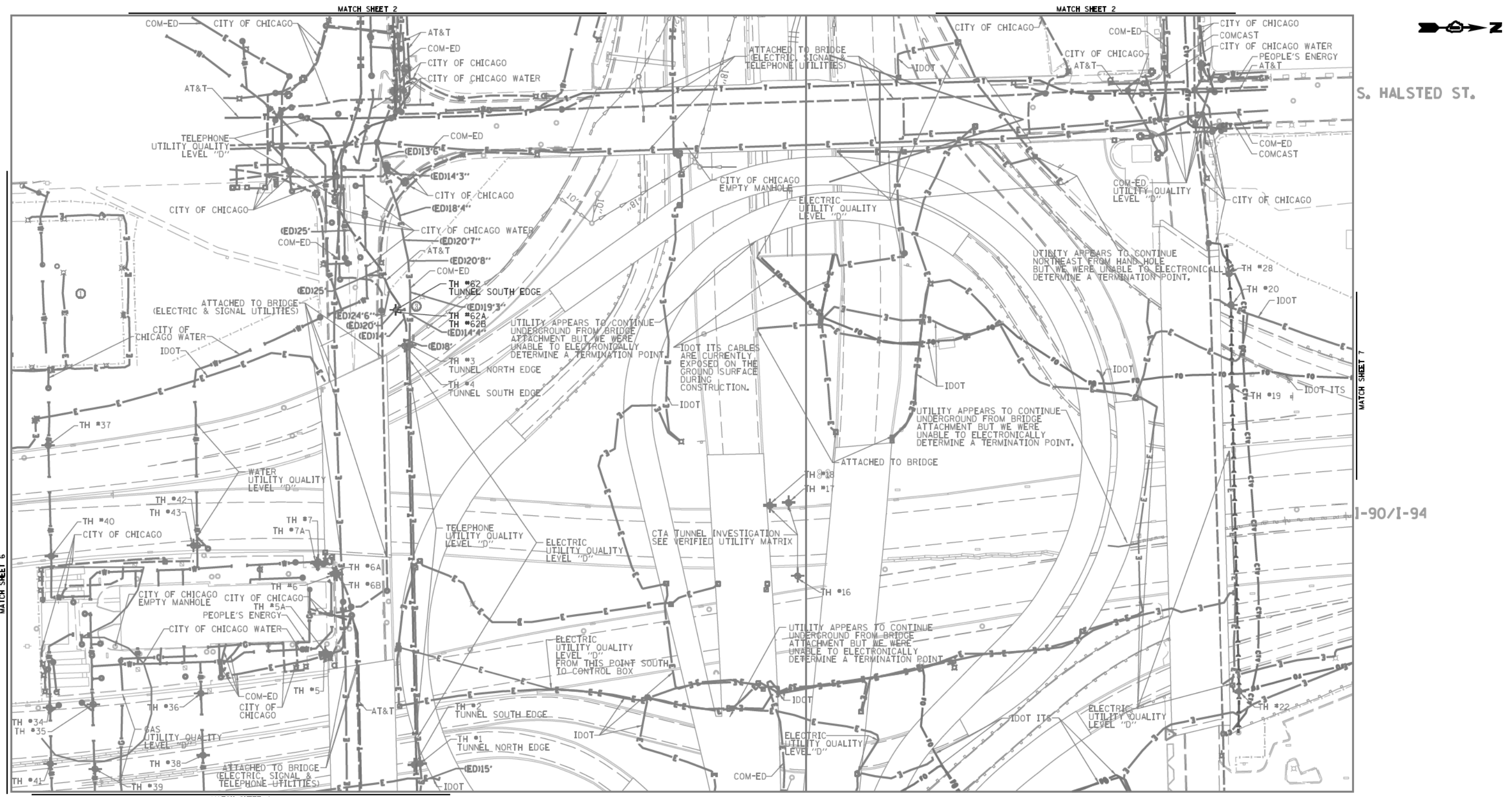
UTILITY OWNERS	AT&T = TELEPHONE
	COMCAST = CABLE TV
	COM-ED = ELECTRIC
	CITY OF CHICAGO = ELECTRIC
	CITY OF CHICAGO WATER = WATER
	IDOT = ELECTRIC
	PEOPLE'S ENERGY = GAS

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

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

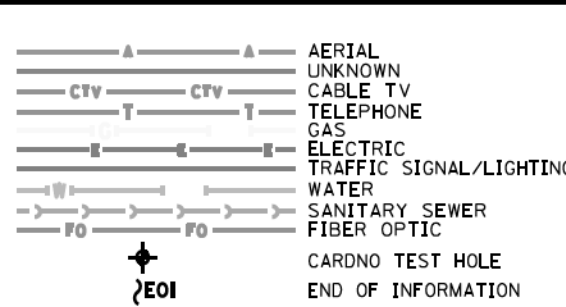
SHEET 2 OF 22 SHEETS

F.A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	302
Contract No. N/A				
FED. ROAD DIST. NO. ILLINOIS DOT Project No. P-9-259-12				



S. HALSTED ST.

I-90/I-94



**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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ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 1/24/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 5/11/18 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

CHANGES TO UTILITIES OUTSIDE THE LIMITS OF THIS INVESTIGATION AREA MAY HAVE BEEN MADE AFTER OUR PREVIOUS INVESTIGATION AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

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

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

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

SHEET 3 OF 22 SHEETS

**PROFESSIONAL ENGINEER**  
KENNETH F. SLANINKA, JR.  
062-055488  
STATE OF ILLINOIS  
5-24-18  
license expires 11-30-19

**Cardno**  
Engineers & Surveyors

**CLAASSEN, WHITE & ASSOCIATES, P.C.**  
LAND SURVEYORS  
121 AIRPORT DR. UNIT 1, COLETT, ILLINOIS 60431  
(815) 744-3720 clausen@theccsurvey.com

**Dynasty Group**  
Engineers & Surveyors  
CARDNO Job No. 109510531, 563, 647, 737, 758, 761, 764  
SUE Plan Pages 3 of 12

Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED 2/01/17 ADDED UTILITIES
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED 5/24/14 ADDED TH #2, 62A
Utility Quality Level "C": Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D": Records Research	DATE 12/18/15	REVISED

DESIGNED JP	REVISED 2/01/17 ADDED UTILITIES
DRAWN SRK	REVISED 5/24/14 ADDED TH #2, 62A
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

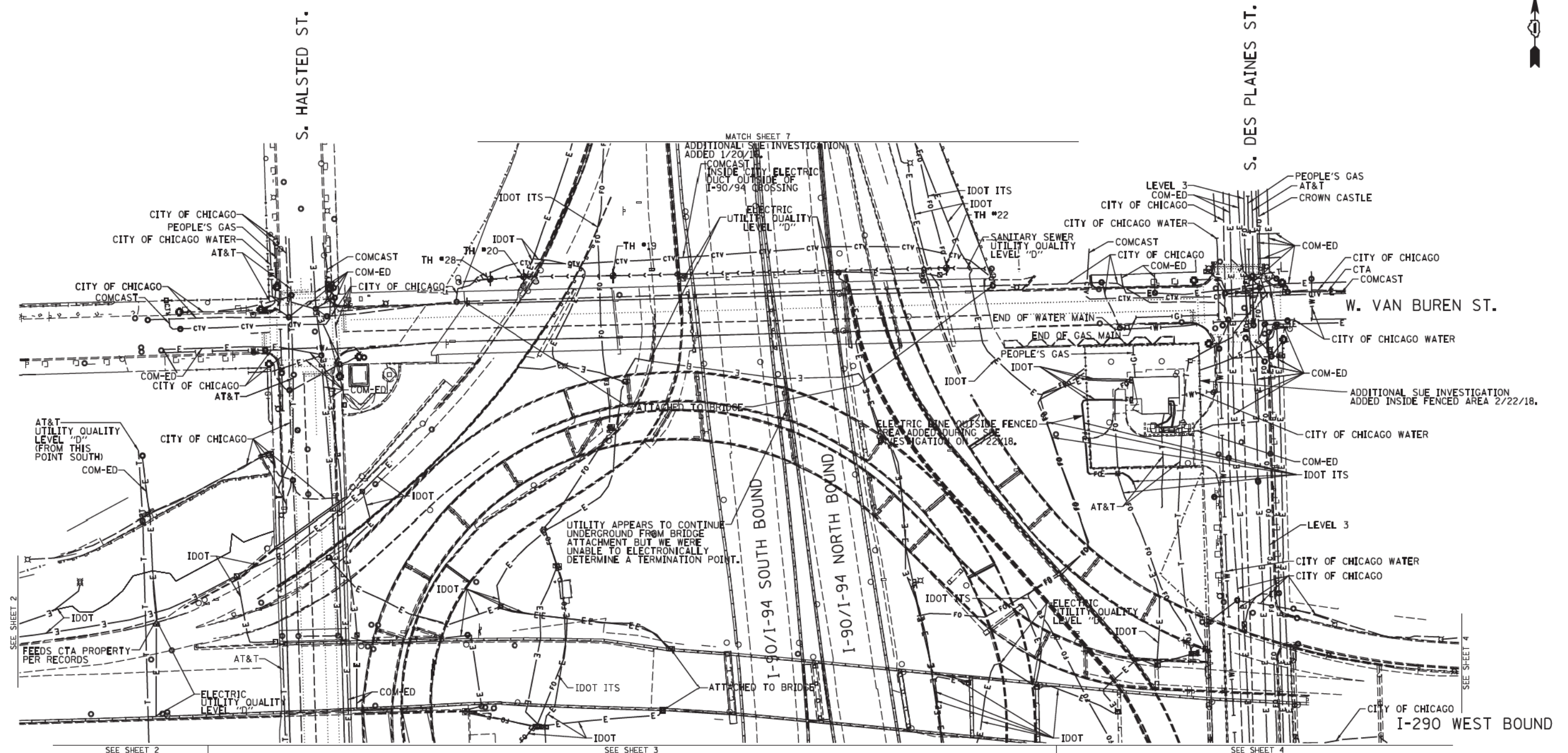
DESIGNED JP	REVISED 2/01/17 ADDED UTILITIES
DRAWN SRK	REVISED 5/24/14 ADDED TH #2, 62A
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

DESIGNED JP	REVISED 2/01/17 ADDED UTILITIES
DRAWN SRK	REVISED 5/24/14 ADDED TH #2, 62A
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	303
FED. ROAD DIST. NO.		ILLINOIS		IDOT Project No. P-91-259-12

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	303
FED. ROAD DIST. NO.		ILLINOIS		IDOT Project No. P-91-259-12





NOTE:  
 THE CITY OF CHICAGO LINES (OTHER THAN THE WATER LINES), ARE MULTI-DUCT SYSTEMS, AND MAY CONTAIN ELECTRIC, TRAFFIC SIGNAL, CPS FIBER OPTICS, OEMC FIBER OPTICS, OTHER CITY COMMUNICATION LINES, AND OCCASIONALLY 3RD PARTY LINES. CARDNO HAS NOT ATTEMPTED TO DETERMINE THE NUMBER, SIZE, CONFIGURATION, OR OWNERSHIP OF THESE DUCT SYSTEMS, SUCH DETERMINATION SHOULD BE MADE BY OTHERS DURING THE UTILITY COORDINATION PROCESS.

CHANGES TO UTILITIES OUTSIDE THE LIMITS OF THIS INVESTIGATION AREA MAY HAVE BEEN MADE AFTER OUR PREVIOUS INVESTIGATION AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPGRADING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

	A	AERIAL
	UNKNOWN	UNKNOWN
	CTV	CABLE TV
	T	TELEPHONE
	G	GAS
	E	ELECTRIC
	TS/L	TRAFFIC SIGNAL/LIGHTING
	W	WATER
	SS	SANITARY SEWER
	FO	FIBER OPTIC
	EOI	TBE TEST HOLE
	EOI	END OF INFORMATION

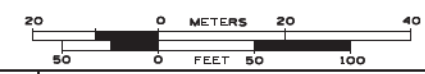
UTILITY OWNERS	
AT&T	= TELEPHONE
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO	= FIBER OPTIC
CITY OF CHICAGO WATER	= WATER
COMCAST	= CABLE TV
COM-ED	= ELECTRIC
CROWN CASTLE	= FIBER OPTIC
CTA	= ELECTRIC
IDOT	= ELECTRIC
IDOT ITS	= FIBER OPTIC
LEVEL 3	= FIBER OPTIC
PEOPLE'S GAS	= GAS

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 8/07/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 2/22/18 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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



CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 121 AIRPORT DRIVE, SUITE 1, BLOOMINGTON, ILLINOIS 60010  
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CARDNO Job No. IL09510531, 563, 647, 737, 758  
 SUE Plan Page: 3A of 12

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

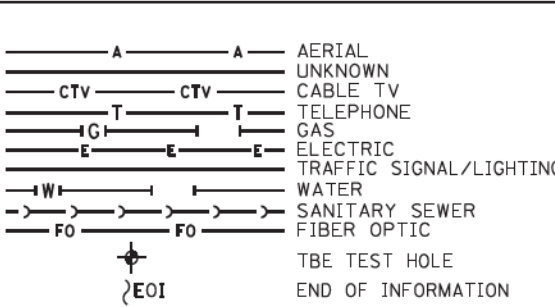
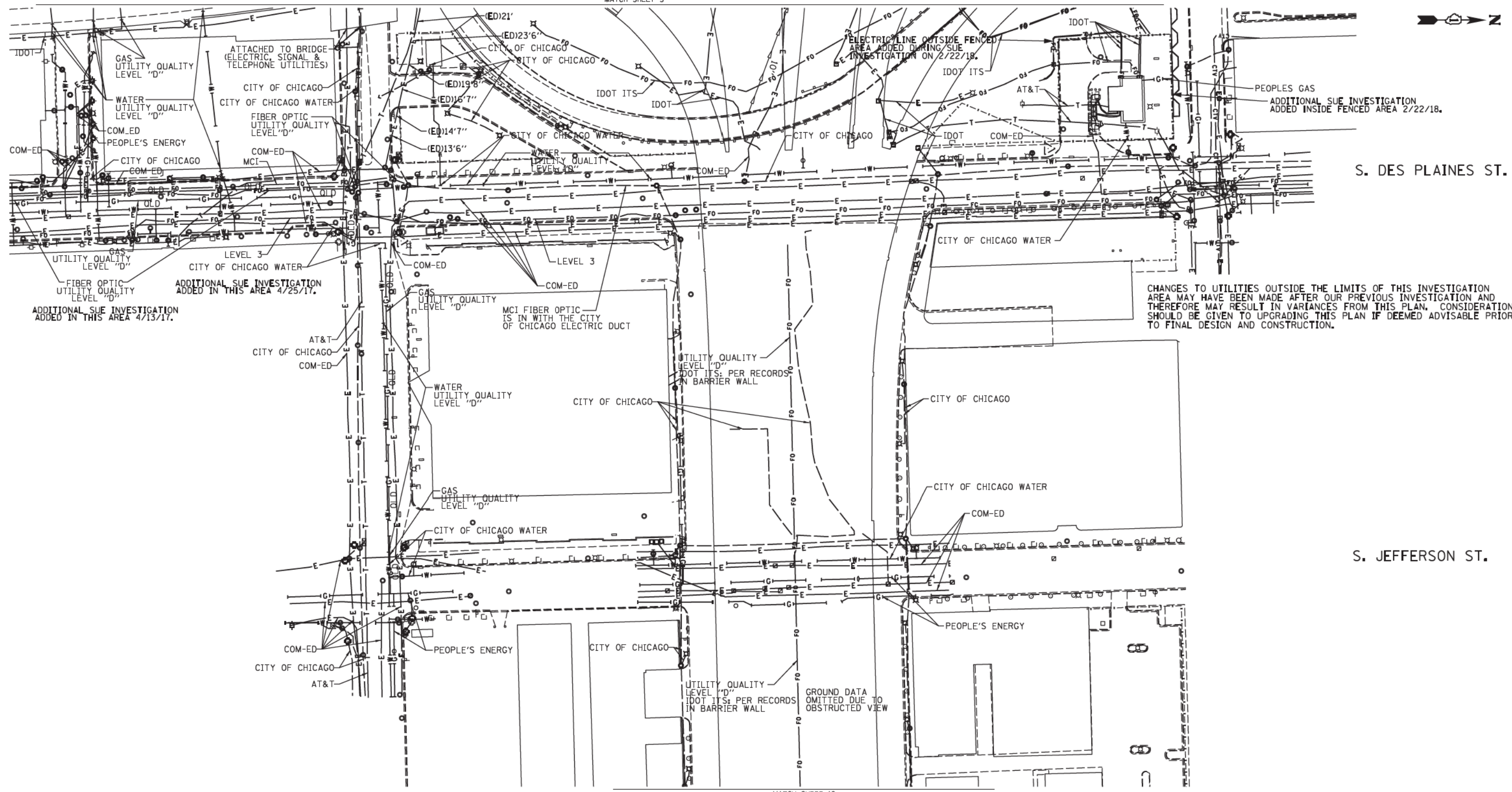
DESIGNED	IP/ER/LP	REVISED	12/20/16
DRAWN	SRK/KLC	REVISED	2/23/18
CHECKED	MGR/KFS	REVISED	
DATE	12/18/15	REVISED	

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	888	304
Contract No. N/A				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No. P-91-259-12				





**UTILITY OWNERS**

AT&T = TELEPHONE  
 COM-ED = ELECTRIC  
 CITY OF CHICAGO = ELECTRIC  
 CITY OF CHICAGO = SANITARY SEWER  
 CITY OF CHICAGO WATER = WATER  
 IDOT = ELECTRIC  
 IDOT SURVEILLANCE = 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.

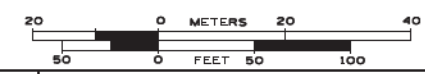
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ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/27/17 THROUGH 4/07/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 4/25/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 2/22/18 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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



CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 121 AIRPORT DRIVE, SUITE 1, GOLFVIEW, ILLINOIS 60438  
 (815) 744-3720 claussewh@ccwassoc.com



CARDNO Job No. IL09510531, 563, 647, 737, 758  
 SUE Plan Page: 4 of 12

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

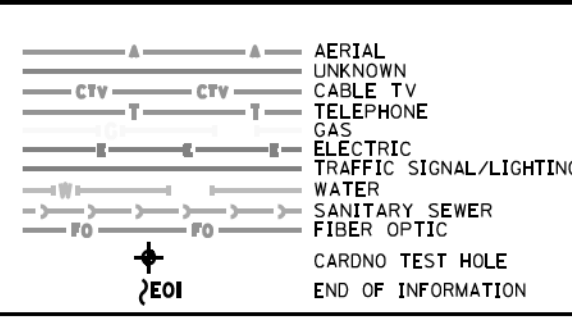
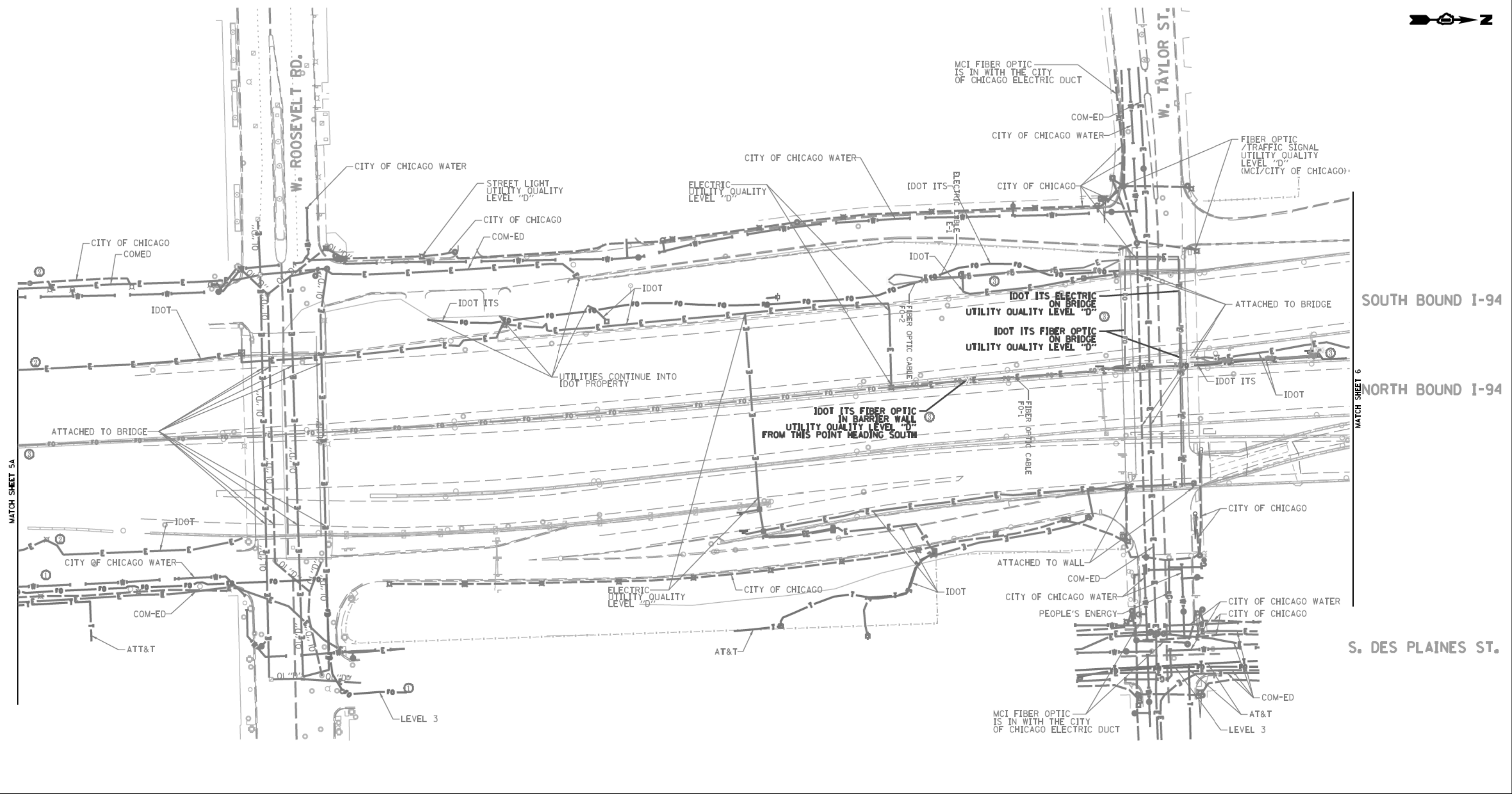
DESIGNED	IP/FR/LP	REVISED	4/13/17
DRAWN	SRK/KLC	REVISED	5/1/17
CHECKED	MGR/KFS	REVISED	2/23/18
DATE	12/18/15	REVISED	

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

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

SHEET 5 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	305
FED. ROAD DIST. NO.		ILLINOIS	IDOT Project No. P-91-259-12	Contract No. N/A



UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
IDOT	= ELECTRIC
IDOT ITS	= 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 COMED CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS, AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

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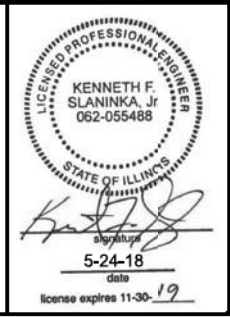
ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/06/17 THROUGH 3/08/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 5/11/18 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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**Cardno**  
Engineers & Surveyors

**CLAASSEN, WHITE & ASSOCIATES, P.C.**  
LAND SURVEYORS  
121 AIRPORT DRING, UNIT 1, GLEET, ILLINOIS 60431  
(815) 744-3720 clausse@cwacsurvey.com

**Dynasty Group**  
Engineers & Surveyors  
CARDNO Job No. 109510531, 563, 647, 737, 758, 761, 764  
SUE Plan Pages 5 of 12

Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED 12/20/16
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED 3/13/17
Utility Quality Level "C": Research with Survey	CHECKED MGR	REVISED 5/24/14 UPDATED UTILITIES
Utility Quality Level "D": Records Research	DATE 12/18/15	REVISED

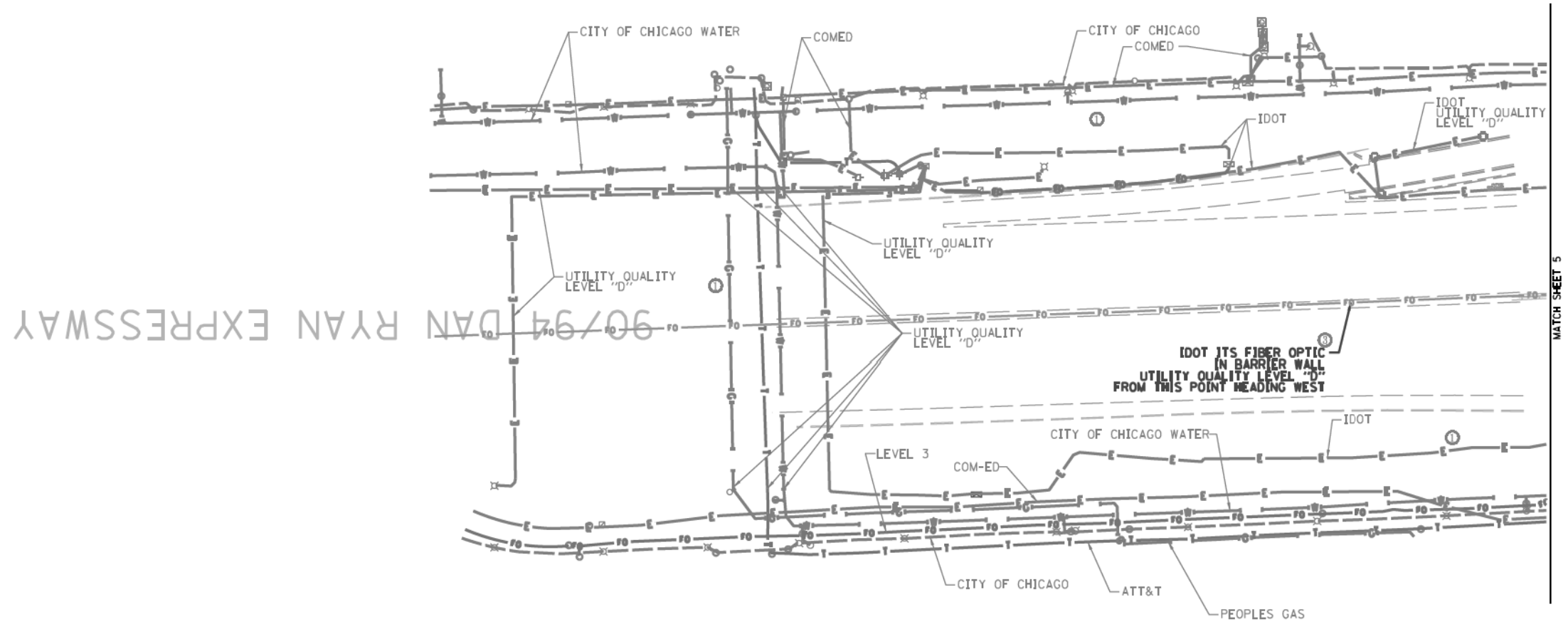
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DRAWN SRK	REVISED 3/13/17
CHECKED MGR	REVISED 5/24/14 UPDATED UTILITIES
DATE 12/18/15	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SHEET 6 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	306
FED. ROAD DIST. NO. ILLINOIS			IDOT Project No. P-91-259-12	



MATCH SHEET 5

	A	AERIAL
	UNKNOWN	UNKNOWN
	CTV	CABLE TV
	T	TELEPHONE
	G	GAS
	E	ELECTRIC
	TS/L	TRAFFIC SIGNAL/LIGHTING
	W	WATER
	SS	SANITARY SEWER
	FO	FIBER OPTIC
	EOI	CARDNO TEST HOLE
	EOI	END OF INFORMATION

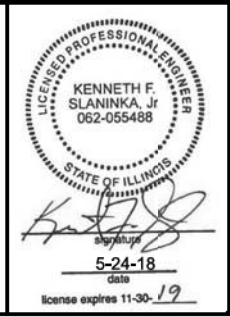
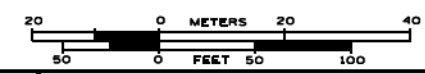
UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO	= WATER
IDOT	= ELECTRIC
IDOT ITS	= FIBER OPTIC
LEVEL 3	= FIBER OPTIC
PEOPLE'S ENERGY	= GAS

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/06/17 THROUGH 3/08/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES. ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 5/11/18 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

CHANGES TO UTILITIES OUTSIDE THE LIMITS OF THIS INVESTIGATION AREA MAY HAVE BEEN MADE AFTER OUR PREVIOUS INVESTIGATION AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

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CARDNO Job No. IL09510531, 563, 647, 737, 758, 761, 764  
SUE Plan Pages 5A of 12

Utility Quality Level "A" : Visually Verified Test Hole	DESIGNED JP	REVISED 3/13/17
Utility Quality Level "B" : Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED 5/24/18 UPDATED UTILITIES
Utility Quality Level "C" : Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D" : Records Research	DATE 12/20/16	REVISED

DESIGNED JP	REVISED 3/13/17
DRAWN SRK	REVISED 5/24/18 UPDATED UTILITIES
CHECKED MGR	REVISED
DATE 12/20/16	REVISED

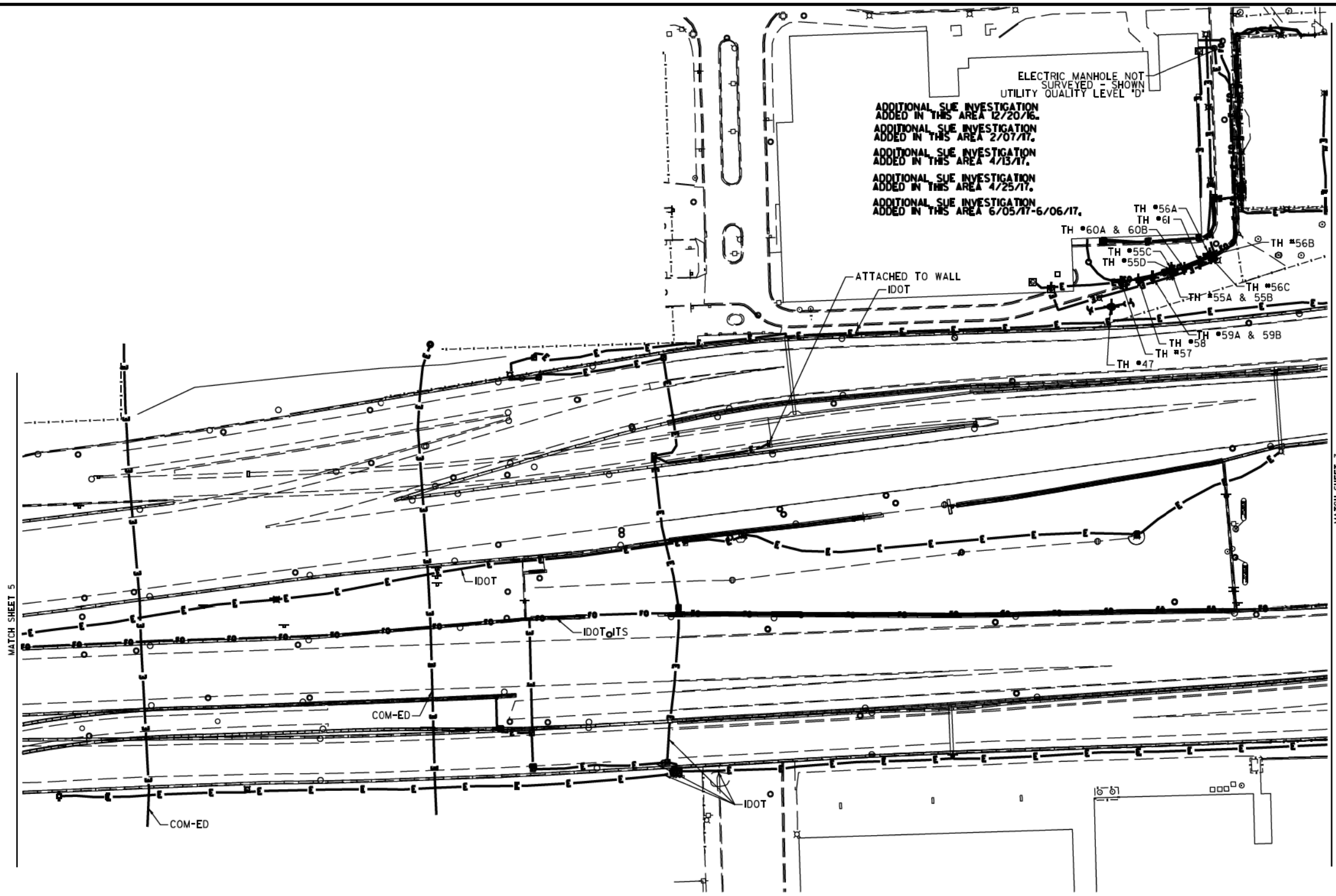
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SHEET 7 OF 22 SHEETS

F.A. RTG	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	307
FED. ROAD DIST. NO.		ILLINOIS	IDOT Project No. P-91-259-12	





ELECTRIC MANHOLE NOT SURVEYED - SHOWN UTILITY QUALITY LEVEL 'D'

ADDITIONAL SUE INVESTIGATION ADDED IN THIS AREA 12/20/16.

ADDITIONAL SUE INVESTIGATION ADDED IN THIS AREA 2/07/17.

ADDITIONAL SUE INVESTIGATION ADDED IN THIS AREA 4/13/17.

ADDITIONAL SUE INVESTIGATION ADDED IN THIS AREA 4/25/17.

ADDITIONAL SUE INVESTIGATION ADDED IN THIS AREA 6/05/17-6/06/17.

SOUTH BOUND I-94

NORTH BOUND I-94

MATCH SHEET 5

MATCH SHEET 3

	AERIAL
	UNKNOWN
	CABLE TV
	TELEPHONE
	GAS
	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
	WATER
	SANITARY SEWER
	FIBER OPTIC
	CARDNO TEST HOLE
	END OF INFORMATION

UTILITY OWNERS

COM-ED = ELECTRIC

IDOT = ELECTRIC

IDOT ITS = FIBER OPTIC

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.

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/14/13 THROUGH 7/25/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

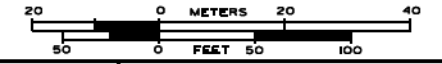
ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 1/24/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/27/17 THROUGH 4/07/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 4/25/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/5/17-6/6/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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



CLAASSEN, WHITE & ASSOCIATES, P.C.  
LAND SURVEYORS  
100 AIRPORT DRIVE, SUITE 1, JOLIET, ILLINOIS 60438  
(815) 744-3720 claussewhiteassoc.com



CARDNO Job No. IL0990531 563, 647, 737, 748  
SUE Plan Page 6 of 12

Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED 12/20/16 ADDED UTILITIES	REVISED 6/08/17 ADDED TH#57-61
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED 2/01/17 ADDED UTILITIES	
Utility Quality Level "C": Research with Survey	CHECKED	REVISED 4/13/17 ADJUSTED UTILITIES	
Utility Quality Level "D": Records Research	DATE	REVISED 5/1/17 ADDED TH#55A-56C	

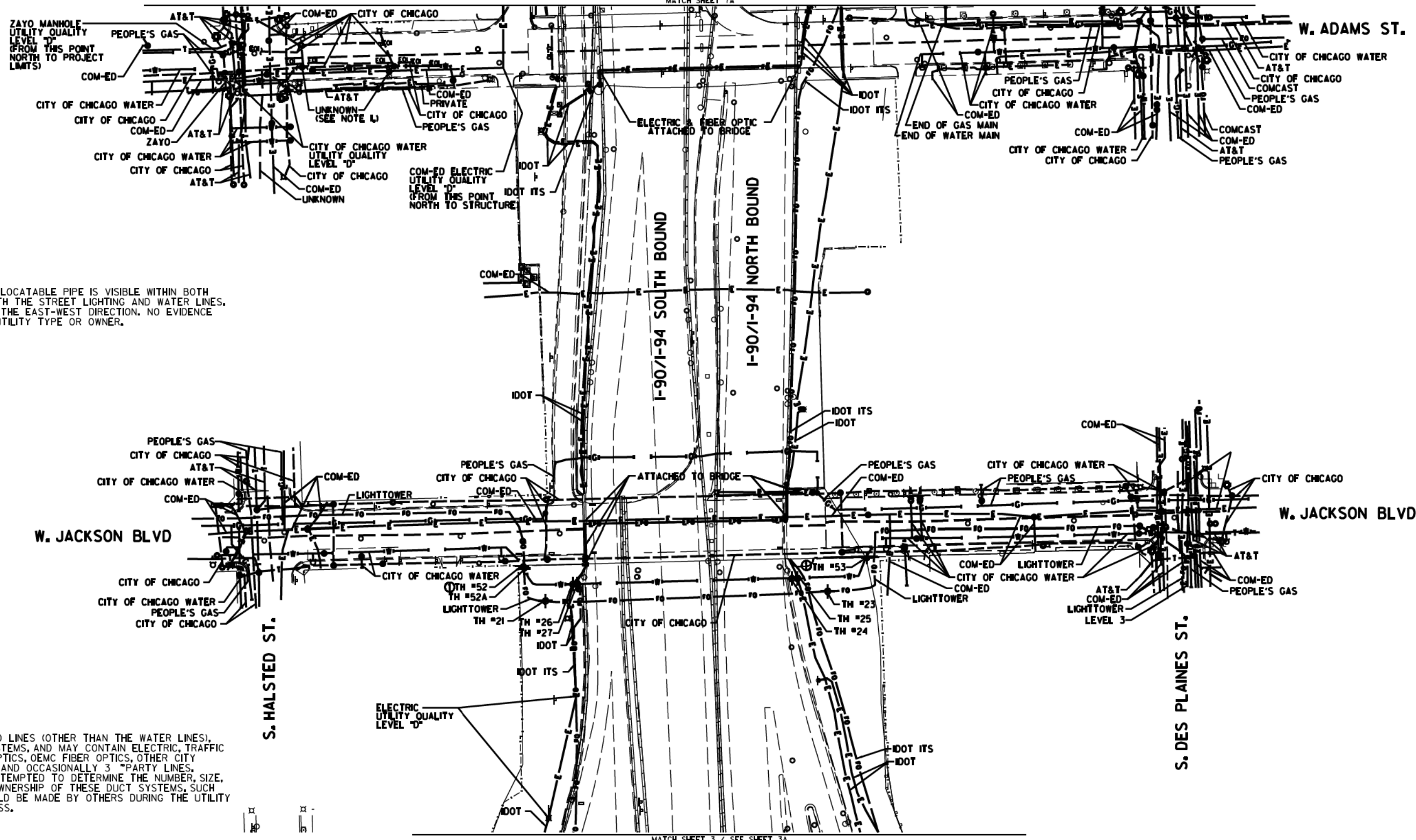
DESIGNED JP	REVISED 12/20/16 ADDED UTILITIES	REVISED 6/08/17 ADDED TH#57-61
DRAWN SRK	REVISED 2/01/17 ADDED UTILITIES	
CHECKED	REVISED 4/13/17 ADJUSTED UTILITIES	
DATE	REVISED 5/1/17 ADDED TH#55A-56C	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET 8 OF 22 SHEETS

F.A. R.T.C.	SECTION N/A	COUNTY Cook	TOTAL SHEETS 888	SHEET NO. 308
FED. ROAD DIST. NO.		ILLINOIS	DOT Project No. P-9-259-R	

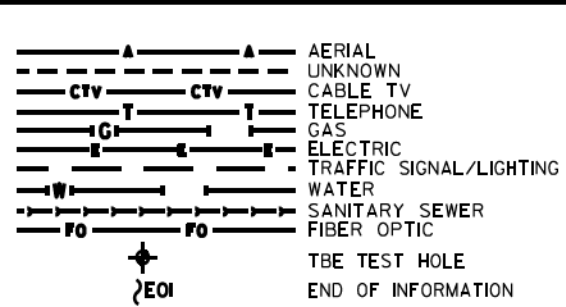


NOTE 1:  
 AN UNKNOWN AND UNLOCATABLE PIPE IS VISIBLE WITHIN BOTH MANHOLES ALONG WITH THE STREET LIGHTING AND WATER LINES. PIPE IS ORIENTED IN THE EAST-WEST DIRECTION. NO EVIDENCE WAS AVAILABLE OF UTILITY TYPE OR OWNER.

NOTE:  
 THE CITY OF CHICAGO LINES (OTHER THAN THE WATER LINES), ARE MULTI-DUCT SYSTEMS, AND MAY CONTAIN ELECTRIC, TRAFFIC SIGNAL, CPS FIBER OPTICS, OEMC FIBER OPTICS, OTHER CITY COMMUNICATION LINES, AND OCCASIONALLY 3 PARTY LINES. CARDNO HAS NOT ATTEMPTED TO DETERMINE THE NUMBER, SIZE, CONFIGURATION, OR OWNERSHIP OF THESE DUCT SYSTEMS. SUCH DETERMINATION SHOULD BE MADE BY OTHERS DURING THE UTILITY COORDINATION PROCESS.

MATCH SHEET 7A

MATCH SHEET 3 / SEE SHEET 3A



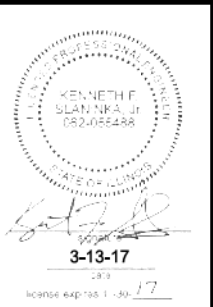
UTILITY OWNERS	
AT&T	= TELEPHONE
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO	= FIBER OPTIC
CITY OF CHICAGO WATER	= WATER
COM-ED	= ELECTRIC
IDOT	= ELECTRIC
IDOT ITS	= FIBER OPTIC
LEVEL 3	= FIBER OPTIC
LIGHTTOWER	= FIBER OPTIC
PEOPLE'S GAS	= GAS
ZAYO	= FIBER OPTIC

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 8/07/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 12/10/16 THROUGH 3/03/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES. TEST HOLES #52-53 ADDED.

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

Scale: 0 to 40 METERS, 0 to 100 FEET.



**Cardno TBE**

CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
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**Dynasty Group**  
 Engineers & Surveyors

TBE Job No. IL095053A 563, 647, 737  
 SUE Plan Pages 1 of 12

Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED 3/07/17
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED
Utility Quality Level "C": Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D": Records Research	DATE 12/18/15	REVISED

DESIGNED JP	REVISED 3/07/17
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

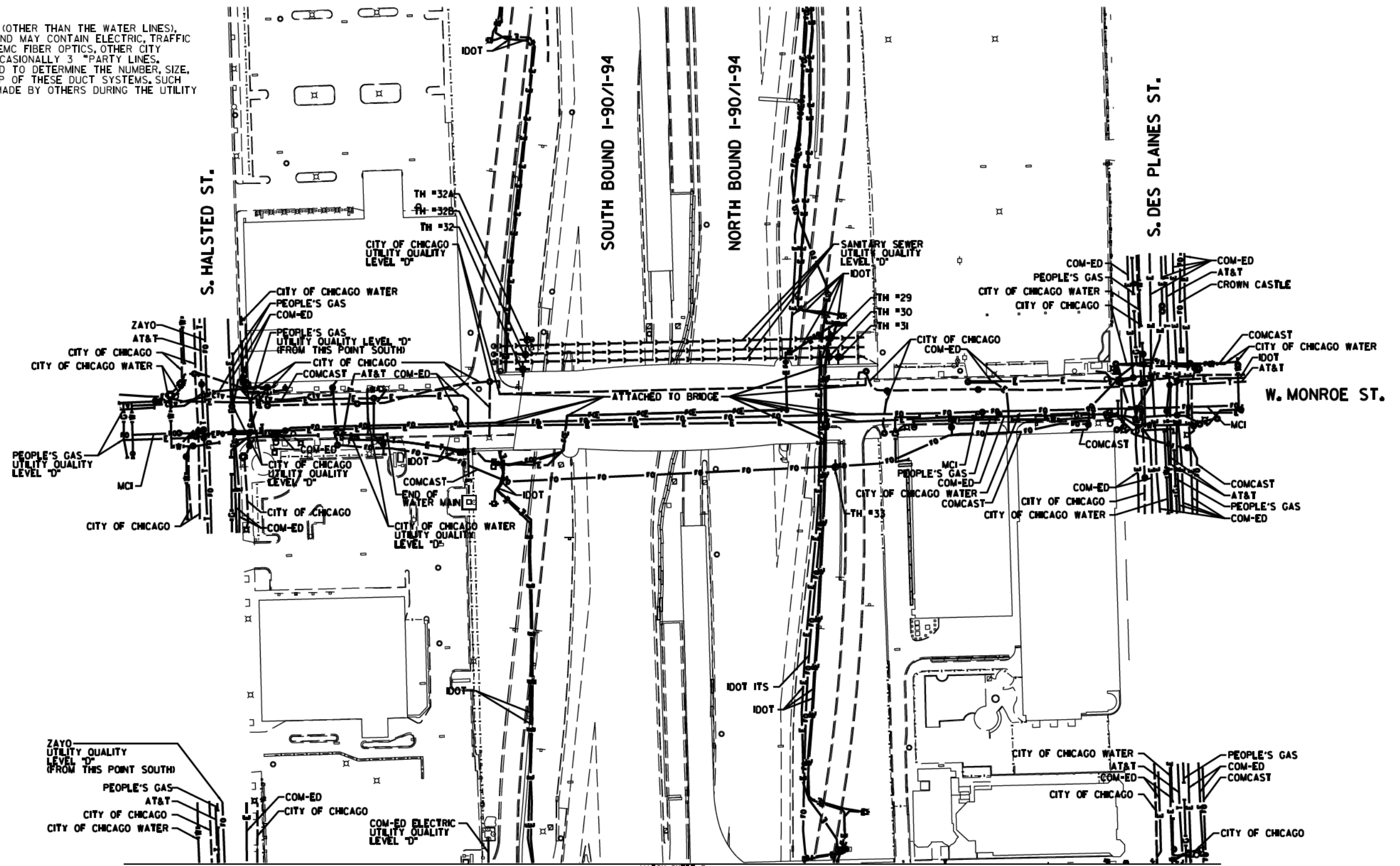
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

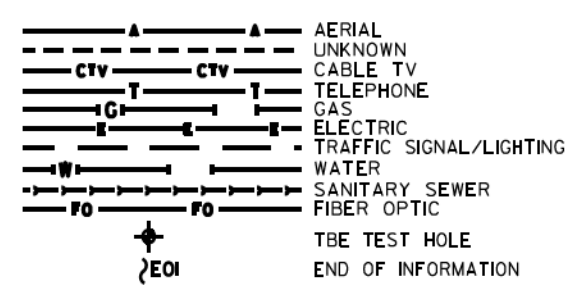
SHEET 9 OF 22 SHEETS

F.A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	309
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-R				

NOTE:  
 THE CITY OF CHICAGO LINES (OTHER THAN THE WATER LINES), ARE MULTI-DUCT SYSTEMS, AND MAY CONTAIN ELECTRIC, TRAFFIC SIGNAL, CPS FIBER OPTICS, OEMC FIBER OPTICS, OTHER CITY COMMUNICATION LINES, AND OCCASIONALLY 3 PARTY LINES. CARDNO HAS NOT ATTEMPTED TO DETERMINE THE NUMBER, SIZE, CONFIGURATION, OR OWNERSHIP OF THESE DUCT SYSTEMS. SUCH DETERMINATION SHOULD BE MADE BY OTHERS DURING THE UTILITY COORDINATION PROCESS.



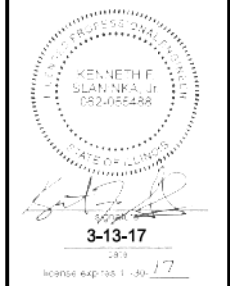
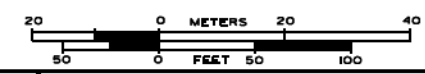
MATCH SHEET 7



**UTILITY OWNERS**  
 AT&T = TELEPHONE  
 CITY OF CHICAGO = ELECTRIC  
 CITY OF CHICAGO WATER = WATER  
 COMCAST = CABLE TV  
 COMCAST = FIBER OPTIC  
 COM-ED = ELECTRIC  
 CROWN CASTLE = FIBER OPTIC  
 IDOT = ELECTRIC  
 IDOT ITS = FIBER OPTIC  
 IDOT = TELEPHONE  
 MCI = FIBER OPTIC  
 PEOPLE'S GAS = GAS  
 ZAYO = FIBER OPTIC

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 LAND SURVEYORS  
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 (815) 744-3720 clausenwhite@cwasurevey.com



TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 7A of 12

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 JP	REVISED
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

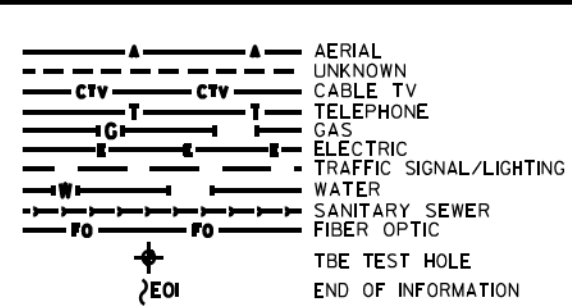
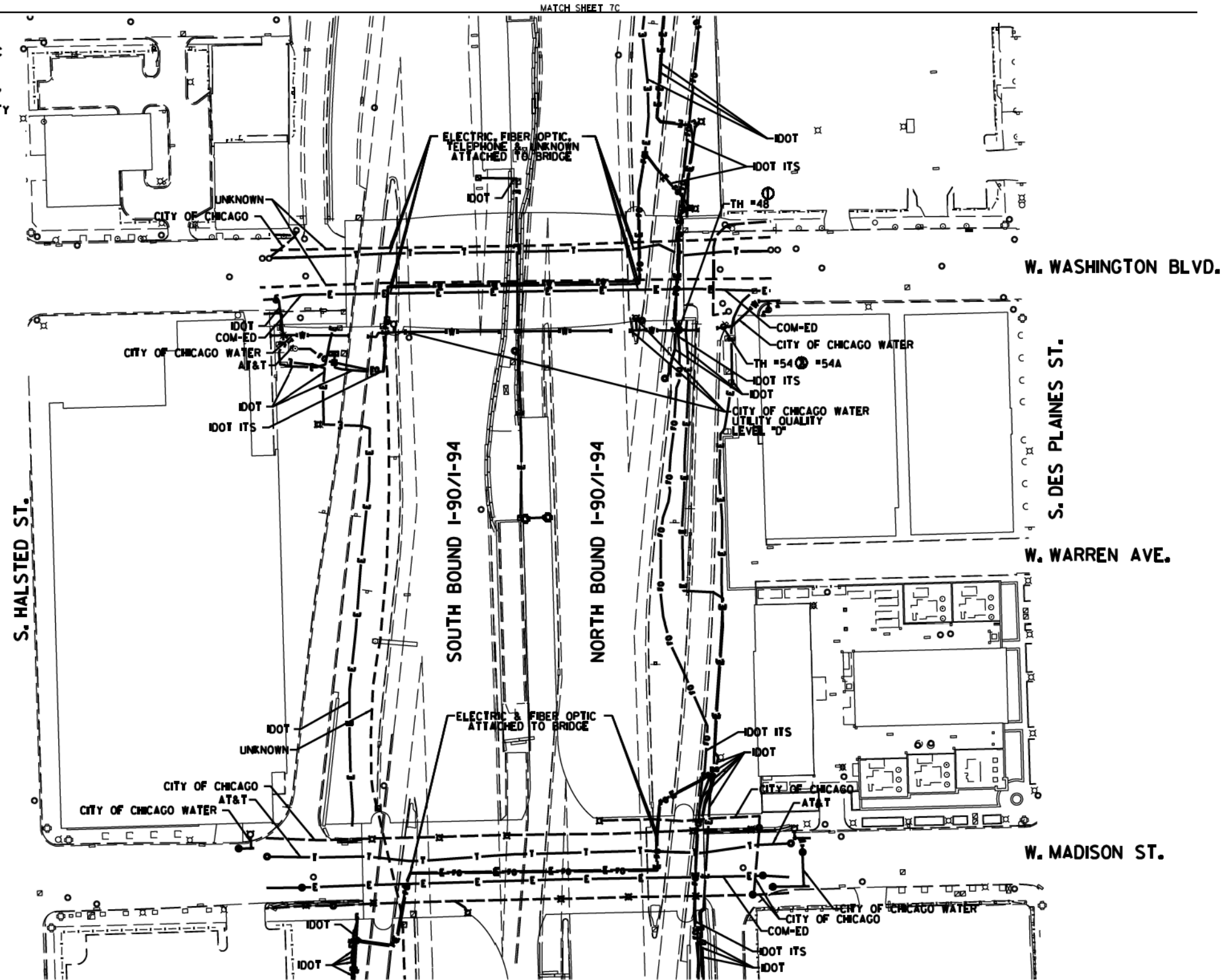
I-94-901-290 (Circle Interchange)  
 Chicago, Illinois

SHEET 10 OF 22 SHEETS

F.A. RTIC	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	310
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS IDOT Project No. P-9-259-R				



NOTE:  
 THE CITY OF CHICAGO LINES (OTHER THAN THE WATER LINES),  
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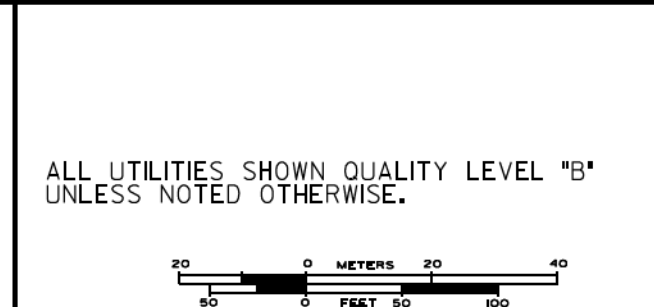


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ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 1/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 12/10/16 THROUGH 3/03/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES. TEST HOLE #54 ADDED.

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



**Cardno TBE**

CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 13100 S. JOLIET BLVD., SUITE 6013  
 JOLIET, IL 61781-3720 claussewhite.com

**Dynasty Group**  
 Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 78 of 12

DESIGNED JP	REVISED 1 12/20/16
DRAWN SRK	REVISED 2 3/07/17
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

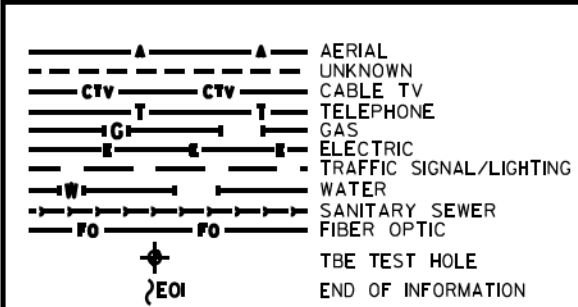
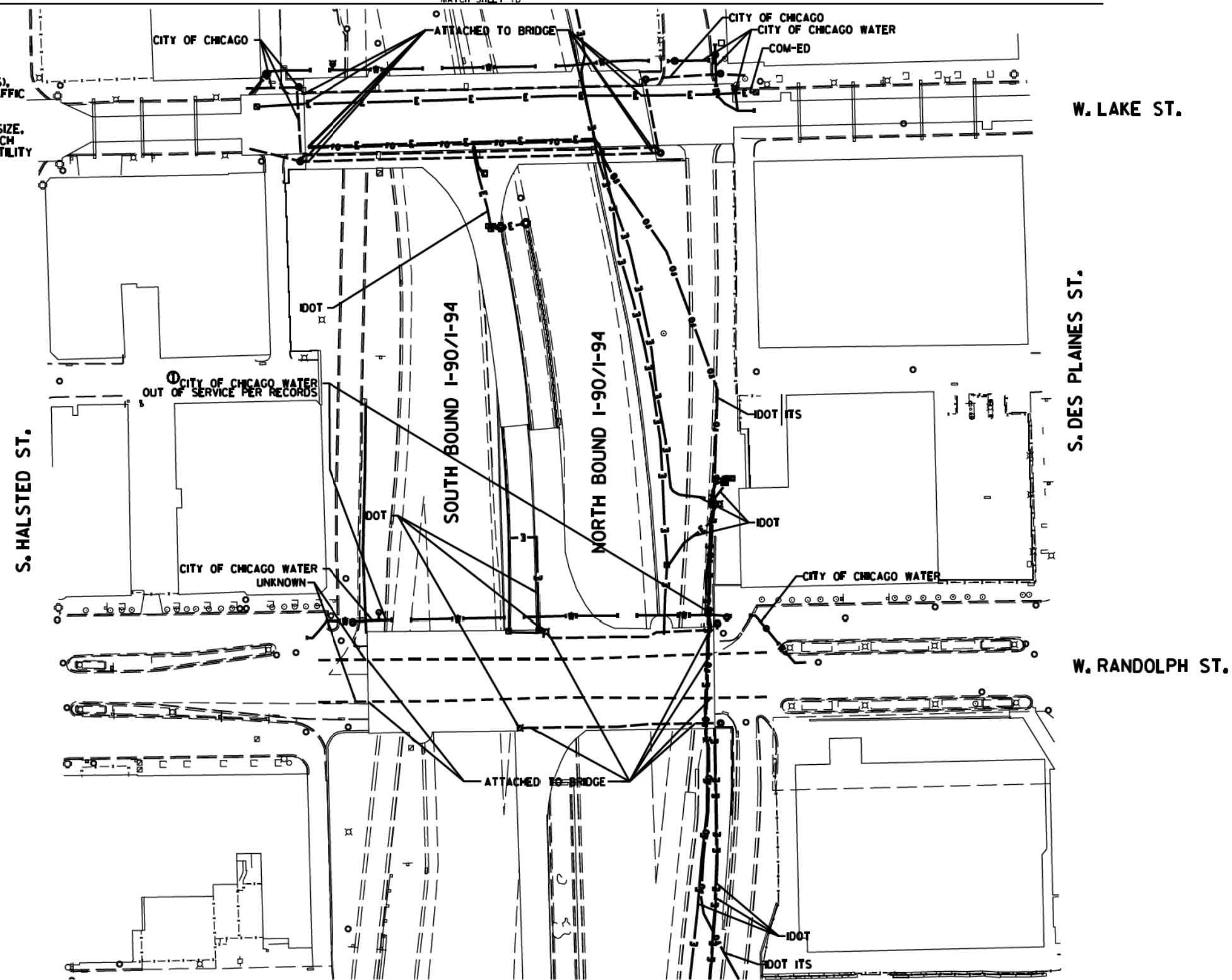
I-94-901-290 (Circle Interchange)  
 Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	311
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-R				

SHEET 11	OF 22 SHEETS
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NOTE:  
 THE CITY OF CHICAGO LINES (OTHER THAN THE WATER LINES), ARE MULTI-DUCT SYSTEMS, AND MAY CONTAIN ELECTRIC, TRAFFIC SIGNAL, CPS FIBER OPTICS, OEMC FIBER OPTICS, OTHER CITY COMMUNICATION LINES, AND OCCASIONALLY 3 PARTY LINES. CARDNO HAS NOT ATTEMPTED TO DETERMINE THE NUMBER, SIZE, CONFIGURATION, OR OWNERSHIP OF THESE DUCT SYSTEMS. SUCH DETERMINATION SHOULD BE MADE BY OTHERS DURING THE UTILITY COORDINATION PROCESS.

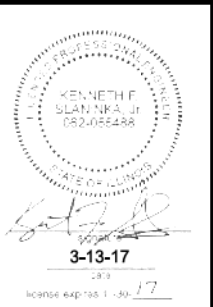


**UTILITY OWNERS**  
 CITY OF CHICAGO = ELECTRIC  
 CITY OF CHICAGO WATER = WATER  
 COM-ED = ELECTRIC  
 IDOT = ELECTRIC  
 IDOT ITS = FIBER OPTIC  
 UNKNOWN = UNKNOWN

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 2/09/15 THROUGH 3/18/15. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

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



CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 13100 W. 111th St., Suite 100, Skokie, IL 60077  
 (847) 441-3720 clausenwhite.com



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 JP	REVISED 12/20/16
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

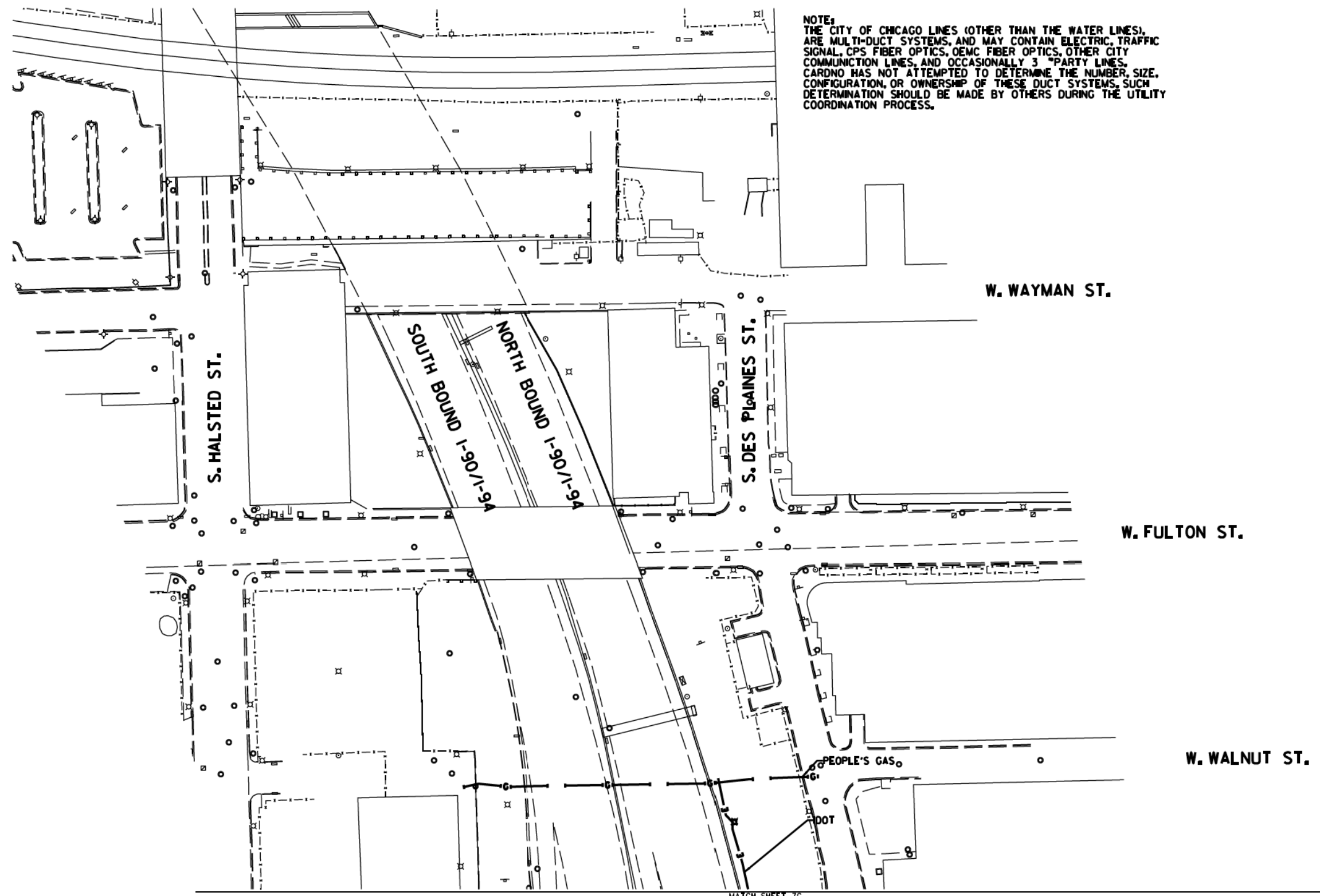
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-94-901-290 (Circle Interchange)  
 Chicago, Illinois  
 SHEET 12 OF 22 SHEETS

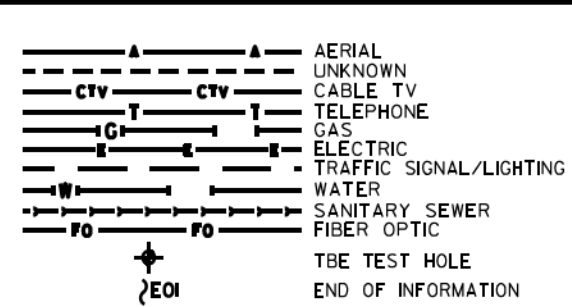
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	312
FED. ROAD DIST. NO., ILLINOIS			DOT Project No. P-9-259-12	



NOTE:  
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 COMMUNICATION LINES, AND OCCASIONALLY 3<sup>RD</sup> PARTY LINES.  
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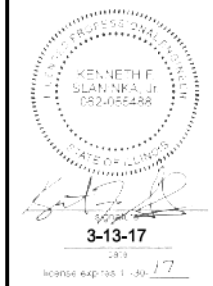
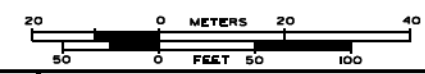
MATCH SHEET 7C



UTILITY OWNERS  
 IDOT = ELECTRIC  
 PEOPLE'S GAS = GAS

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



CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
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 (815) 744-3720 clausse@whiteassoc.com



TBE Job No. L0990531 563, 647, 737  
 SUE Plan Pages 70 of 12

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 JP	REVISED
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

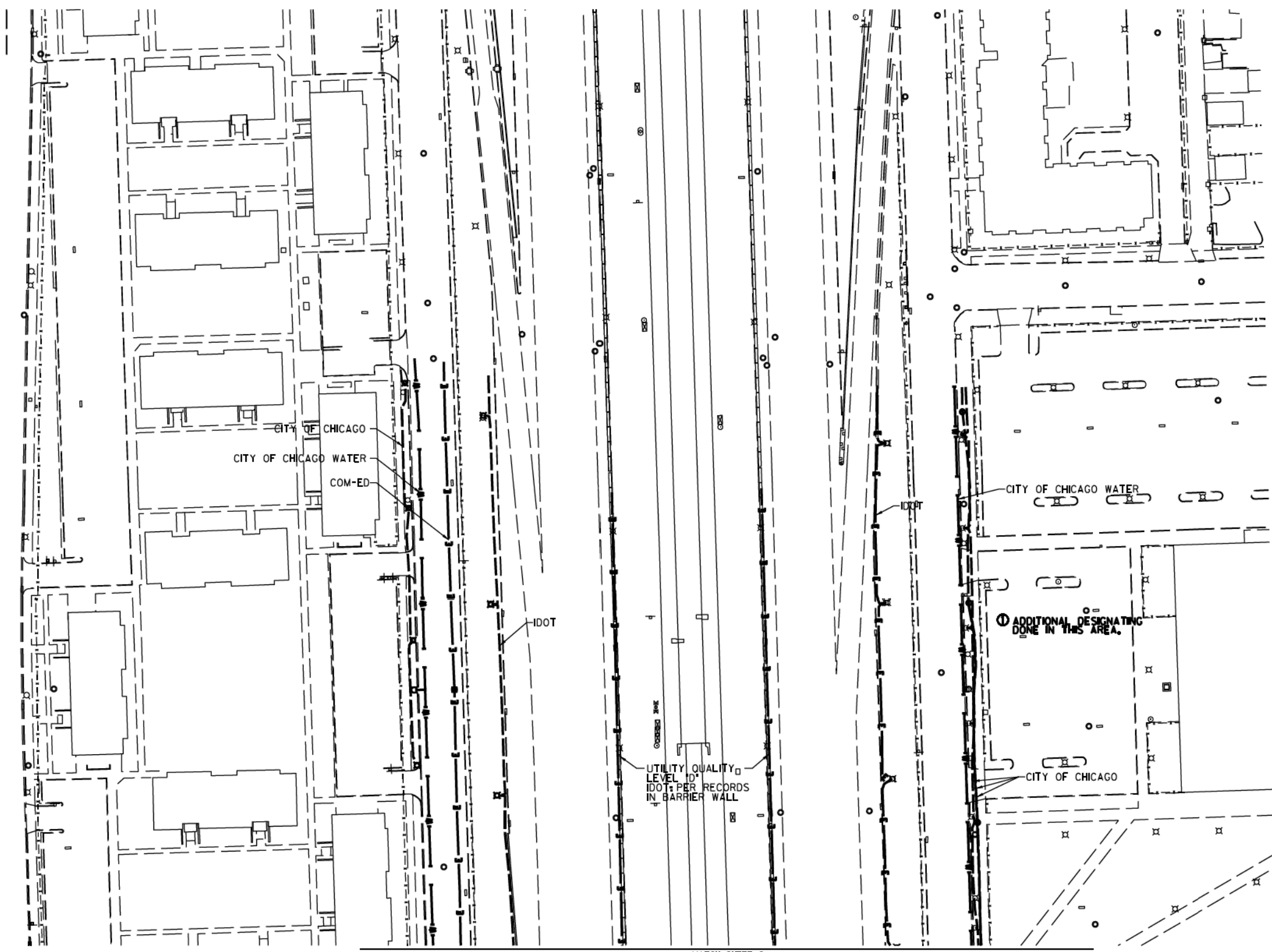
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

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

SHEET 13 OF 22 SHEETS

F.A. RTG	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	313
FED. ROAD DIST. NO., ILLINOIS			DOT Project No. P-94-259-12	





S. LAFLIN ST.

MATCH SHEET 9

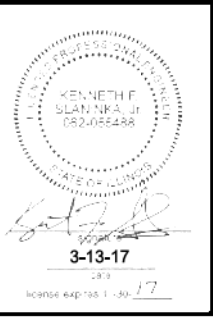
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	TELEPHONE
	GAS
	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
	WATER
	SANITARY SEWER
	FIBER OPTIC
	TBE TEST HOLE
	END OF INFORMATION

UTILITY OWNERS	
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
IDOT	= ELECTRIC

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 7/25/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 12/10/16 THROUGH 3/03/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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



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LAND SURVEYORS  
8300 AIRPORT DRIVE, SUITE 1, JOLIET, ILLINOIS 60438  
(815) 744-3720 clausse@cwatbe.com

Engineers & Surveyors

TBE Job No. IL0950531 563, 647, 737  
SUE Plan Page 8 of 12

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

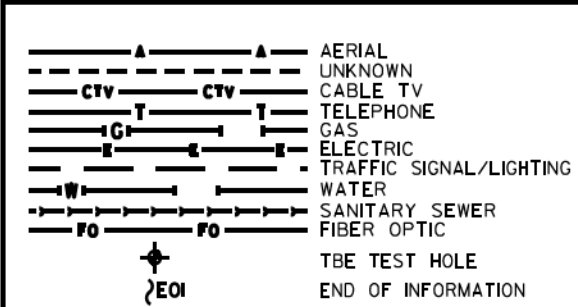
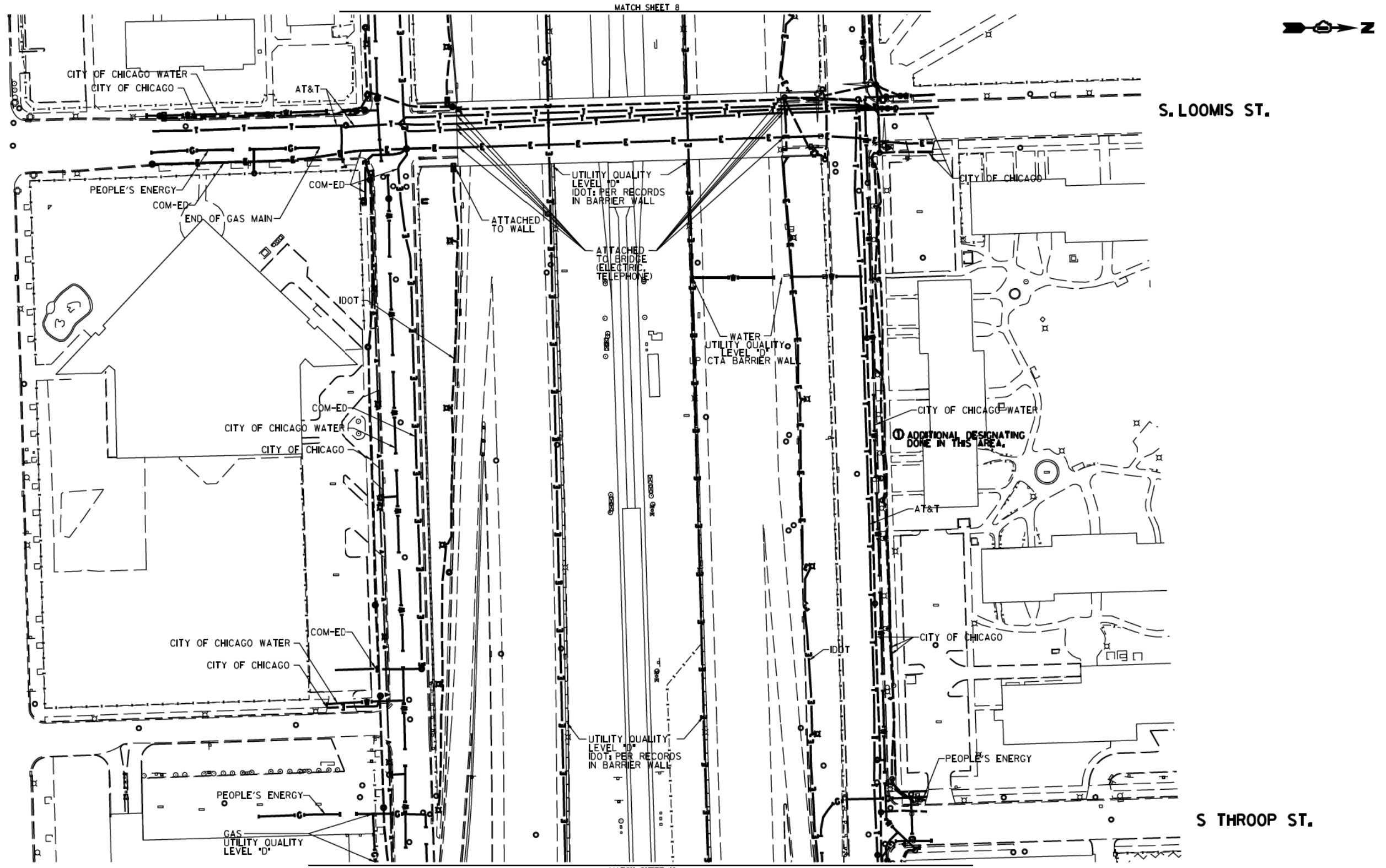
DESIGNED JP	REVISED ① 3/07/17
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET 14 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	314
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-98-259-R				



UTILITY OWNERS

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

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 JP  
 DRAWN SRK  
 CHECKED MGR  
 DATE 12/18/15

REVISED 3/07/17  
 REVISED  
 REVISED  
 REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-94/904-290 (Circle Interchange)  
 Chicago, Illinois

SHEET 15 OF 22 SHEETS

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 8/07/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 12/10/16 THROUGH 3/03/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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

SCALE: 1" = 40'

3-13-17

CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 1100 W. WASHINGTON ST., SUITE 100, CHICAGO, IL 60604  
 (773) 744-3720 clausenwhiteassociates.com

Dynasty Group  
 Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 9 of 12

F.A. RTG	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	315
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-94-259-R				

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SCALE: 1" = 40'

3-13-17

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Dynasty Group  
 Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 9 of 12

F.A. RTG	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	315
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-94-259-R				



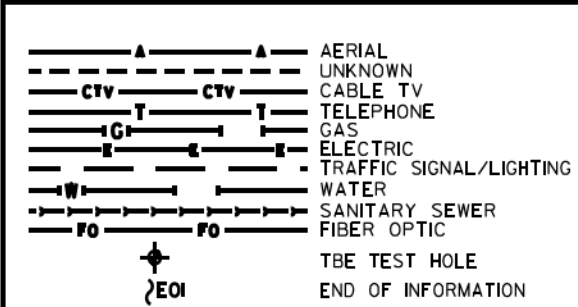
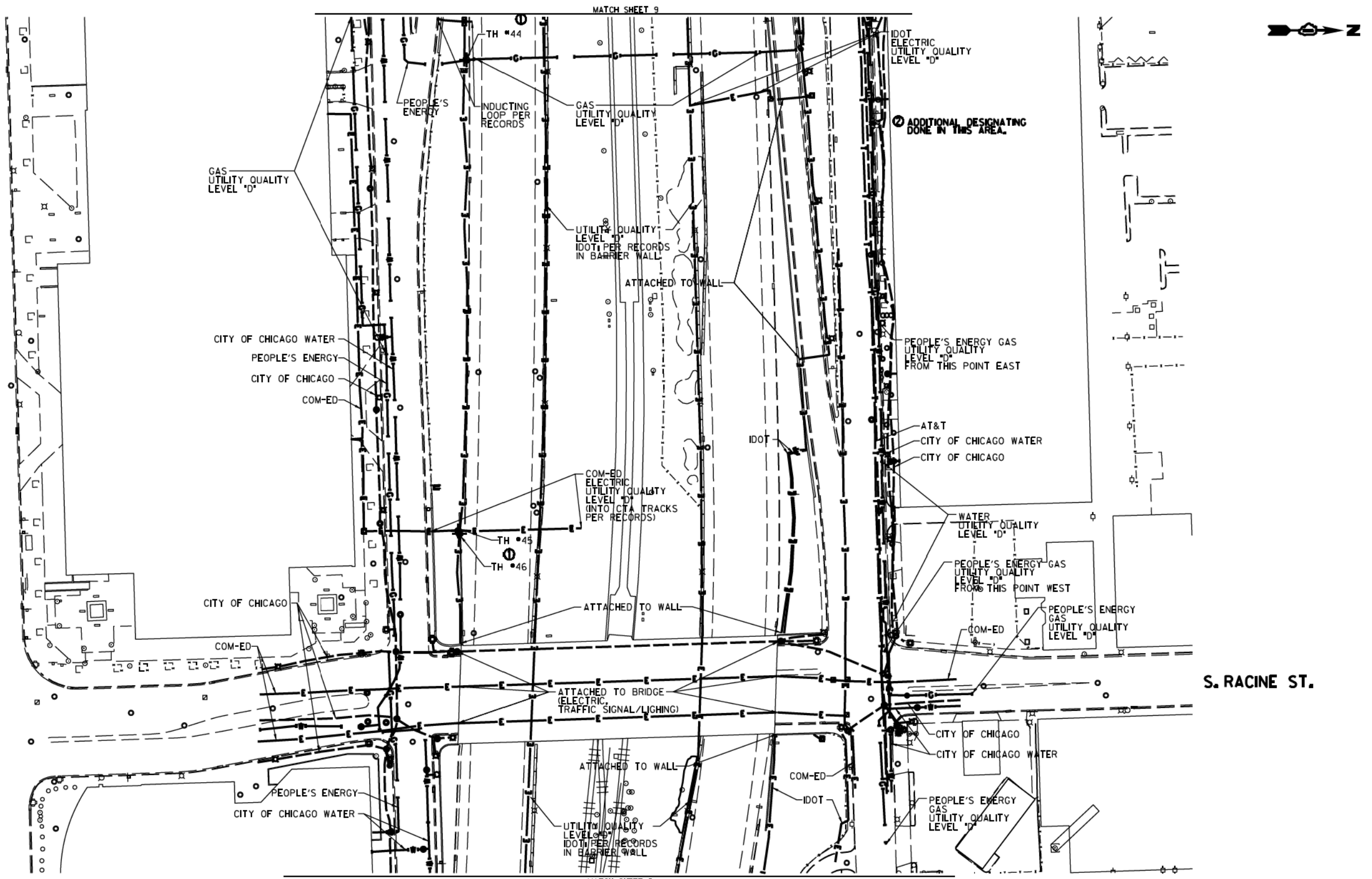
**Cardno TBE**

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 LAND SURVEYORS  
 1100 W. WASHINGTON ST., SUITE 100, CHICAGO, IL 60604  
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**Dynasty Group**  
 Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 9 of 12

F.A. RTG	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	315
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-94-259-R				



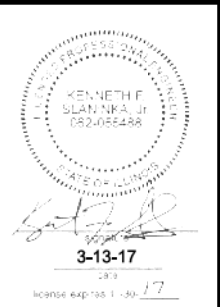
UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO	= WATER
IDOT	= ELECTRIC
PEOPLE'S ENERGY	= GAS

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 8/07/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 11/17/16 THROUGH 12/09/16 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 12/10/16 THROUGH 3/03/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

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**Cardno TBE**

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**Dynasty Group**  
Engineers & Surveyors

TBE Job No. IL0950531 563, 647, 737  
SUE Plan Page 10 of 12

DESIGNED JP	REVISED 1 12/20/16
DRAWN SRK	REVISED 2 3/07/17
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

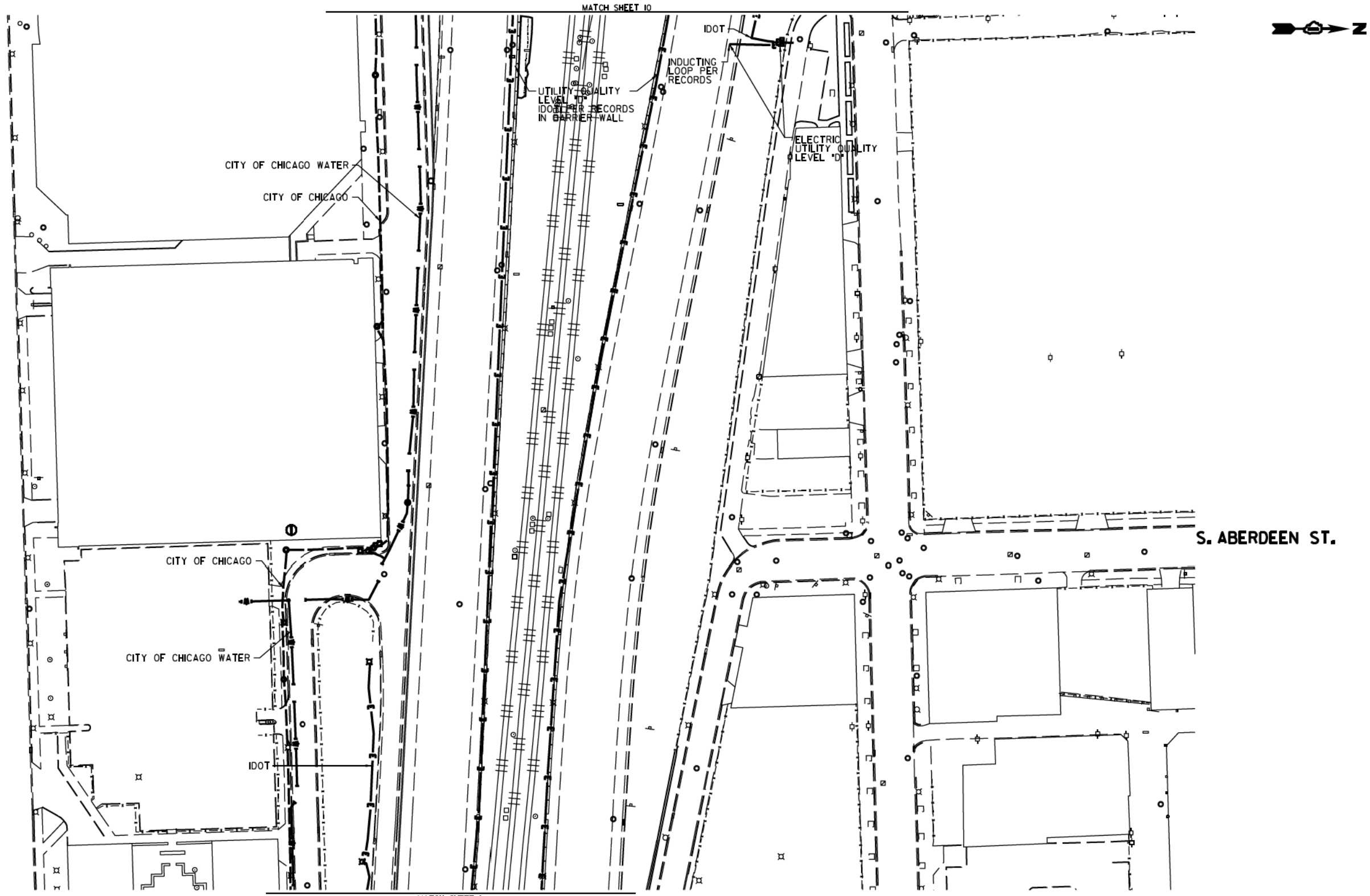
<b>STATE OF ILLINOIS</b>	
<b>DEPARTMENT OF TRANSPORTATION</b>	

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

SHEET 16	OF 22 SHEETS
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	316
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12				

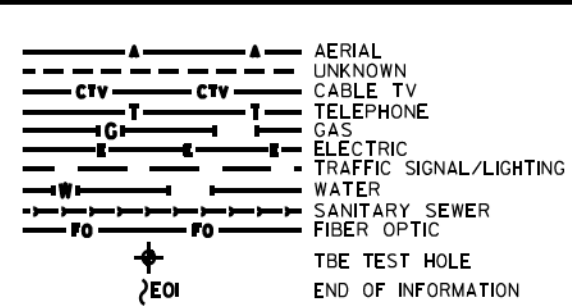




MATCH SHEET 10

MATCH SHEET 1

S. ABERDEEN ST.

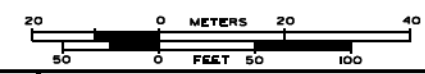


UTILITY OWNERS  
 CITY OF CHICAGO = ELECTRIC  
 CITY OF CHICAGO WATER = WATER  
 IDOT = ELECTRIC

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 6/30/14 THROUGH 7/25/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

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CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
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 (815) 744-3720 clausse@cwawhite.com



TBE Job No. L0990531 563, 647, 737  
 SUE Plan Page 1 of 12

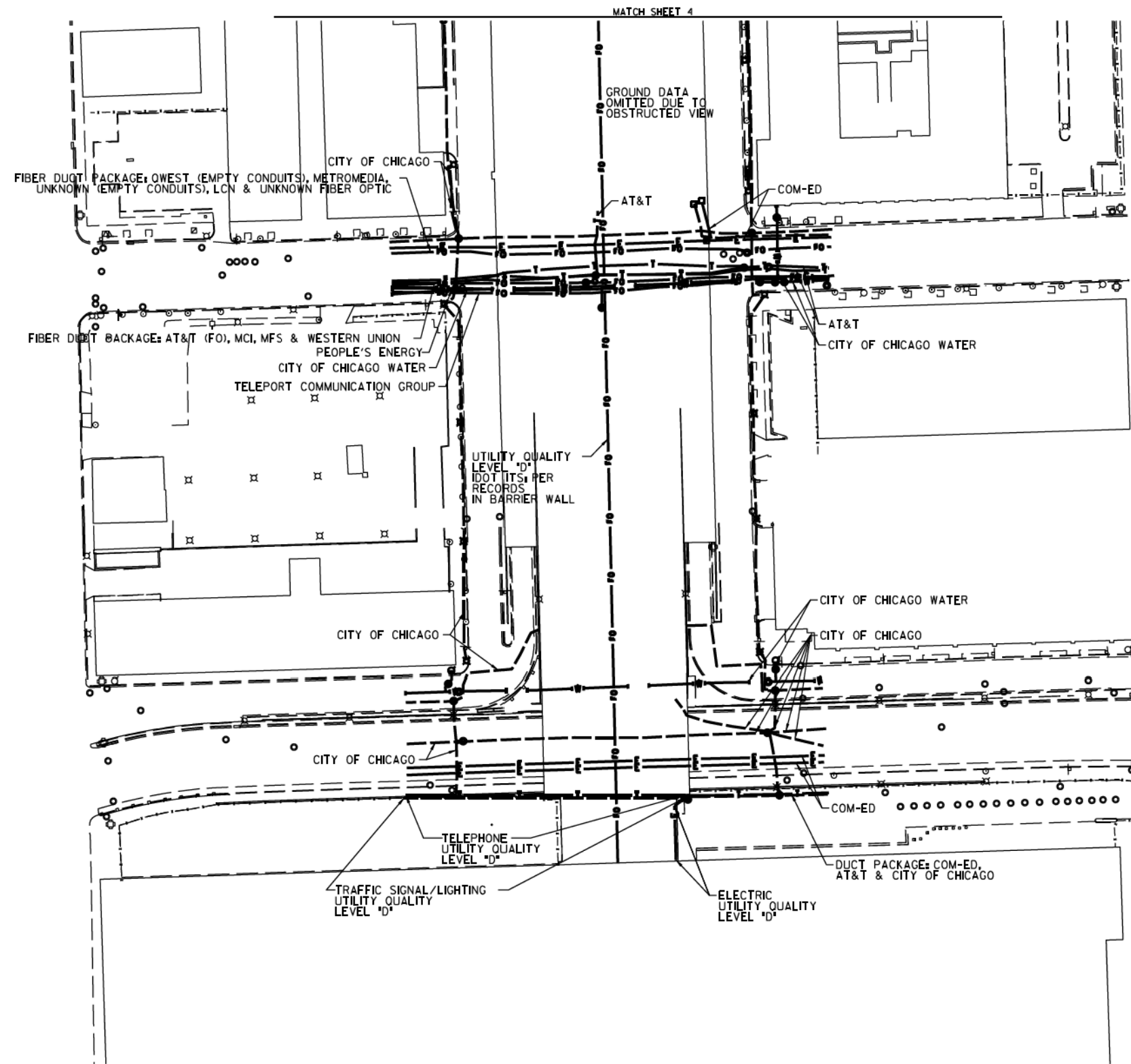
Utility Quality Level "A": Visually Verified Test Hole  
 Utility Quality Level "B": Designating/non Visually Verified Test Hole  
 Utility Quality Level "C": Research with Survey  
 Utility Quality Level "D": Records Research

DESIGNED JP	REVISED 12/20/16
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

I-94-901-290 (Circle Interchange)  
 Chicago, Illinois  
 SHEET 17 OF 22 SHEETS

F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	317
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12			Contract No. N/A	



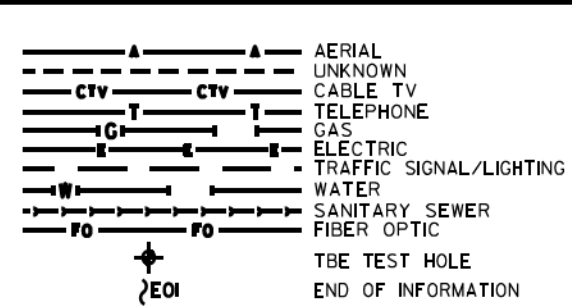
MATCH SHEET 4



GROUND DATA OMITTED DUE TO OBSTRUCTED VIEW

S. CLINTON ST.

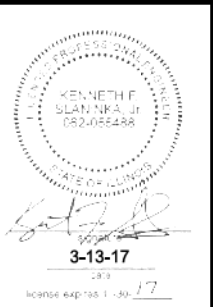
S. CANAL ST.



UTILITY OWNERS		
AT&T = FIBER OPTIC		
AT&T = TELEPHONE		
COM-ED = ELECTRIC		
CITY OF CHICAGO = ELECTRIC		
CITY OF CHICAGO WATER = WATER		
IDOT = ELECTRIC		
LCN = FIBER OPTIC		
MCI = FIBER OPTIC		
METROMEDIA = FIBER OPTIC		
MFS = FIBER OPTIC		
PEOPLE'S ENERGY = GAS		
TELEPORT COMM. GROUP = FIBER OPTIC		
QWEST = FIBER OPTIC		
WESTERN UNION = FIBER OPTIC		

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**Cardno TBE**

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**Dynasty Group**  
Engineers & Surveyors

TBE Job No. L0990531 563, 647, 737  
SUE Plan Page 12 of 12

Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED
Utility Quality Level "B": Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED
Utility Quality Level "C": Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D": Records Research	DATE 12/18/15	REVISED

DESIGNED JP	REVISED
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET 18 OF 22 SHEETS

F.A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	318
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12				

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
1	N/A TUNNEL	1897611.31	1171790.60	573.30'	7.17'	580.47'	A	NORTH EDGE
2	N/A TUNNEL	1897605.50	1171792.00	573.36'	6.92'	580.28'	A	SOUTH EDGE
3	N/A TUNNEL	1897600.91	1171359.65	573.15'	3.86'	577.01'	A	NORTH EDGE
4	N/A TUNNEL	1897595.46	1171360.49	573.09'	3.90'	576.99'	A	SOUTH EDGE
5	N/A THRUST BLOCK	1897513.66	1171678.90	589.72'	6.56'	596.28'	A	
5A	N/A THRUST BLOCK	1897513.63	1171676.05	589.64'	7.20'	596.84'	A	
6	N/A THRUST BLOCK	1897522.75	1171594.74	589.37'	6.68'	596.05'	A	
6A	N/A THRUST BLOCK	1897524.90	1171593.77	589.37'	6.76'	596.13'	A	
6B	N/A THRUST BLOCK	1897525.17	1171595.71	589.38'	6.73'	596.11'	A	
7	N/A THRUST BLOCK	1897506.19	1171582.40	589.21'	6.36'	595.57'	A	
7A	N/A THRUST BLOCK	1897505.10	1171584.54	589.20'	6.42'	595.62'	A	
8	8" WATER	1897811.64	1169853.98	586.86'	7.31'	594.17'	A	
9	N/A THRUST BLOCK	1897812.80	1169876.49	588.42'	4.88'	593.30'	A	
10	N/A THRUST BLOCK	1897815.06	1169870.75	588.64'	5.09'	593.73'	A	
11	SEE NOTE WATER	1897813.75	1169879.18	588.06'	5.49'	593.55'	A	
11A	24"x24" ELECTRIC	1897814.13	1169877.49	591.41'	2.03'	593.44'	A	
12	16" WATER	1898158.45	1170801.96	586.95'	6.60'	593.55'	A	
13	24" GAS	1898159.98	1170811.42	590.55'	3.22'	593.77'	A	
14	16" WATER	1898098.96	1170803.32	570.59'	5.30'	575.89'	A	
15	20" GAS	1898100.29	1170814.06	569.38'	6.45'	575.83'	A	
16	N/A TUNNEL	1898000.74	1171597.17	569.79'	8.10'	577.89'	A	
17	N/A TUNNEL	1897991.35	1171521.95	572.07'	4.11'	576.18'	A	
18	N/A TUNNEL	1897921.01	1171524.66	572.02'	3.99'	576.01'	A	
19	60" SIPHON	1898449.22	1171402.46	572.68'	7.88'	580.56'	A	
20	60" SIPHON	1898448.41	1171318.35	572.62'	6.12'	578.74'	B	
21	2-(4") FIBER OPTIC	1898798.52	1171364.87	581.80'	6.04'	587.84'	A	
22	60" SIPHON	1898456.60	1171716.09	571.31'	11.07'	582.38'	A	
23	2-(4") FIBER OPTIC	1898807.90	1171637.47	574.87'	9.02'	583.89'	A	
24	SEE NOTE WATER	1898820.21	1171602.72	571.87'	4.71'	576.58'	A	
25	SEE NOTE WATER	1898820.37	1171608.33	571.65'	5.80'	577.45'	B	

NOTES

TH #1 - Found North edge of what appears to be a 6' wide wooden frame around utility tunnel. Frame has appearance of wooden railroad ties.  
 TH #2 - Found South edge of what appears to be a 6' wide wooden frame around utility tunnel. Frame has appearance of wooden railroad ties.  
 TH #3 - Found North edge of what appears to be a 6' wide wooden frame around utility tunnel. Frame has appearance of wooden railroad ties. Wooden frame is 5" thick.  
 TH #4 - Found South edge of what appears to be a 6' wide wooden frame around utility tunnel. Frame has appearance of wooden railroad ties.  
 TH #5 - Found North edge of Thrust Block.  
 TH #5A - Found North edge of Thrust Block. Reference point placed on east curb of driveway.  
 TH #6 - Found West edge of Thrust Block.  
 TH #6A - Found a 90 degree bend on Thrust Block. Reference point placed in line with bend.  
 TH #6B - Found North edge of Thrust Block.  
 TH #7 - Found North edge of Thrust Block.  
 TH #7A - Found North edge of Thrust Block.  
 TH #9 - Found what is believed to be the southern edge of thrust block.  
 TH #10 - Found what is believed to be the southern edge of thrust block. Also found a vertical concrete structure that the thrust block seemed to go around. Reference point was placed where edge of thrust block met this structure.  
 TH #11 - Found the east edge of water main at the bend. Water main was directly under City of Chicago electric duct and could not verify a size. Records show that this main is a 30". Reference point was placed directly in line with the eastern edge of pipe at the center of bend.  
 TH #11A - Found a 24x24 concrete electric duct while excavating for water main.  
 TH #13 - Exposed fitting connecting steel gas main to cast iron gas main. (Per Joe People's Energy Inspector)  
 TH #14 - Did not find bend. Water main was still on slight downward slope.  
 TH #15 - Gas main was still on slight downward slope. Exposed pipe at a weld but could not determine if this was part of the bend.  
 TH #16 - Exposed Northern edge of CTA Tunnel.  
 TH #17 - Top of CTA Tunnel.  
 TH #18 - Top of CTA Tunnel.  
 TH #19 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility size to be 60".  
 TH #20 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 60" pipe.  
 TH #22 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility to be a 60" pipe.  
 TH #24 - Briefly had a visual of the utility until sand and ground water infiltrated the test hole. By utilizing the air lance we were able to feel what is believed to be the edges and top of pipe. Records indicate the utility to be a 16" pipe.  
 TH #25 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 16" pipe.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.



Checked By: *[Signature]*  
 Date: 3/13/17  
 TBE Job No. R-0990531-563, 647, 737  
 SHEET 10F 3

DESIGNED EG	REVISED			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	I-941-901-290 (Circle Interchange) Chicago, Illinois	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DRAWN SRK	REVISED					N/A	Cook	888	319		
CHECKED MGR	REVISED					Contract No. N/A					
DATE 12/18/15	REVISED					Job No. P-91-259-12					

SHEET NO. 19 OF 22 SHEETS STA. TO STA.

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE &	TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
26	N/A	WATER	1898814.654	1171391.251	572.75'	7.50'	580.25'	B	
27	N/A	WATER	1898814.915	1171395.719	571.67'	7.16'	578.83'	B	
28	N/A	SIPHON	1898446.146	1171286.067	572.68'	13.38'	586.06'	B	
29	N/A	SIPHON	1899863.107	1171643.779	572.74'	7.90'	580.64'	B	
30	N/A	SIPHON	1899845.426	1171642.747	572.90'	7.06'	579.96'	A	
31	N/A	SIPHON	1899845.311	1171651.515	575.42'	6.42'	581.84'	A	
32	N/A	SIPHON	1899833.821	1171355.929	576.15'	3.62'	579.77'	A	
32A	N/A	SIPHON	1899861.396	1171360.162	574.89'	4.07'	579.07'	A	
32B	N/A	SIPHON	1899847.605	1171358.462	575.20'	4.18'	579.38'	A	
33	N/A	FIBER OPTIC	1899742.060	1171648.471	N/A	SEE NOTE	585.56'	C	
34	48"	WATER	1897228.575	1171732.883	576.44'	5.14'	581.58'	A	
35	48"	WATER	1897273.960	1171729.504	576.92'	4.46'	581.38'	A	
36	N/A	WATER	1897385.054	1171718.156	578.38'	2.22'	580.60'	A	
37	54"	WATER	1897227.364	1171462.933	576.33'	6.03'	582.36'	A	
38	N/A	WATER	1897387.290	1171782.047	576.60'	5.46'	582.06'	A	
39	N/A	WATER	1897275.870	1171796.286	577.47'	5.97'	583.44'	A	
40	54"	WATER	1897230.523	1171576.645	578.58'	2.80'	581.38'	A	
41	N/A	WATER	1897229.624	1171790.841	577.55'	6.17'	583.72'	A	
42	48"	WATER	1897381.570	1171565.533	575.29'	4.43'	579.72'	A	
43	14"x14"	UNKNOWN	1897377.583	1171565.776	577.49'	2.14'	579.63'	A	

NOTES

TH #26 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 16" pipe.

TH #27 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 16" pipe.

TH #28 - Unable to visually verify utility due to back fill and ground water infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the crown of pipe. Records indicate utility to be a 60" pipe.

TH #29 - Unable to visually verify utility due to sand and ground water infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the crown of pipe. Records indicate utility to be a 60" pipe.

TH #30 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility to be a 108" pipe.

TH #31 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility to be a 108" pipe. Found what we believe to be the Siphon Outlet Chamber.

TH #32 - Found a flat formed concrete structure. Reference point placed in line with southern edge of concrete structure.

TH #32A - Found a flat formed concrete structure. Reference point placed in line with Northern edge of concrete structure.

TH #32B - Found a flat formed concrete structure. Reference point placed in line with center of concrete structure.

TH #33 - Were only able to excavated to a depth of 10' and did not find utility. Electronic depths indicate utility to 27' +/- deep.

TH #35 - Depth taken from top of pipe joint.

TH #38 - Were only able to see the top crown of pipe. Records indicate pipe size to be 36".

TH #39 - Were only able to see the top crown of pipe. Records indicate pipe size to be 48".

TH #40 - Pipe appears to be on a slight upward angle towards the retaining wall.

TH #41 - Were only able to see the top crown of pipe. Records indicate pipe size to be 48".

TH #42 - Depth taken from top of pipe joint.

TH #43 - Found unknown concrete 14"x14" structure that appears to be a duct.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.



CIVIL ENGINEERING \* TRANSPORTATION \* ENVIRONMENTAL  
PLANNING \* UTILITY ENGINEERING/LOCATING

Checked By: *[Signature]* TBE Job No. I0990531.563, 647, 737  
Date: 3/13/17 SHEET 2 OF 3

DESIGNED	EG	REVISED	
DRAWN	SRK	REVISED	
CHECKED	MGR	REVISED	
DATE	12/18/15	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 20 OF 22 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	888	320
FED. ROAD DIST. NO. ILLINOIS			Contract No. N/A	
			Job No. P-9-259-12	



VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
44	SEE NOTE GAS	1897941.863	1167859.669	572.26'	8.14'	580.40'	B	
45	18"x4" ELECTRIC	1897934.185	1168300.312	574.30'	5.26'	579.56'	A	
46	6" UNKOWN	1897935.218	1168302.972	577.15'	2.31'	579.46'	A	
47	60" SANITARY	1897000.917	1171469.596	582.85'	9.84'	592.69'	A	
48	SEE NOTE WATER	1900713.310	1171605.295	571.30'	8.18'	579.48'	B	
49	2" WATER	1897809.914	1169798.544	588.83'	4.92'	593.75'	A	
49A	8" WATER	1897809.914	1169798.544	587.83'	5.92'	593.75'	A	
50	42" TELEPHONE	1897887.300	1170967.618	568.18'	7.04'	575.22'	A	
50A	2" TELEPHONE	1897887.267	1170965.824	570.40'	4.81'	575.21'	A	
50B	42" TELEPHONE	1897887.404	1170969.381	568.18'	7.04'	575.22'	A	
51	(2) 4" ELECTRIC	1897848.317	1170019.373	573.62'	3.71'	577.33'	A	
51A	(2) 4" ELECTRIC	1897848.348	1170018.630	573.73'	3.63'	577.36'	A	
52	16" WATER	1898832.110	1171343.510	587.38'	5.02'	592.40'	A	
52A	(2) 4" FIBER OPTIC	1898829.974	1171344.221	589.65'	2.92'	592.57'	A	
53	16" WATER	1898840.107	1171675.502	587.67'	5.08'	592.75'	A	
54	12" WATER	1900715.908	1171642.460	586.55'	7.00'	593.55'	A	
54A	12" WATER	1900715.908	1900715.908	570.95'	22.60'	593.55'	A	
55A	40"x18" ELEC/FIBER OPTIC	1897053.710	1171439.938	590.22'	2.69'	592.91'	A	
55B	40"x18" ELEC/FIBER OPTIC	1897053.710	1171439.938	588.72'	4.19'	592.91'	A	
55C	40"x18" ELEC/FIBER OPTIC	1897053.661	1171436.669	590.23'	2.38'	592.61'	A	
55D	(2) 1.5" UNKNOWN	1897054.054	1171438.116	590.37'	2.12'	592.49'	A	
56A	40" ELEC/FIBER OPTIC	1897086.682	1171423.877	588.81'	3.92'	592.73'	A	
56B	(2) 1.5" UNKNOWN	1897087.277	1171425.482	589.26'	3.45'	592.71'	A	
56C	40" ELEC/FIBER OPTIC	1897087.963	1171426.847	588.63'	4.03'	592.66'	A	

NOTES

TH #44 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 18" pipe.

TH #48 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 12" pipe.

TH #51 - Found (2) 4" conduits side by side. Reference placed in the center of Eastern pipe.

TH #51A - Found (2) 4" conduits side by side. Reference placed in the center of Western pipe.

TH #52A - Found (2) 4" conduits side by side. Reference placed in the center of the two pipes.

TH #54 - Claassen, White & Associates obtained an elevation of 586.55 on the 90 degree bend on the water main inside the manhole. The approximate manual depth of 7' was also obtained by Claassen, White & Associates.

TH #54A - Claassen, White & Associates obtained an elevation of 570.95 on the water main near the bottom of the manhole as it heads West. The approximate manual depth of 22.6' was also obtained by Claassen, White & Associates.

TH #55A - Exposed the top Eastern edge of the concrete duct.

TH #55B - Exposed the bottom Eastern edge of the concrete duct.

TH #55C - Exposed the top Western edge of the concrete duct.

TH #55D - Exposed (2) 1.5" unknown direct buried cables laying on top of the concrete duct in approximately the center of the duct.

TH #56A - Exposed the top Western edge of the concrete duct.

TH #56B - Exposed (2) 1.5" unknown direct buried cables laying on top of the concrete duct in approximately the center of the duct.

TH #56C - Exposed the bottom eastern edge of the concrete duct. Also attempted to expose the bottom eastern edge of the duct but we were unable, due to the gravel fill infiltrating the test hole.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.



Checked By: \_\_\_\_\_ TBE Job No. 1095053L 563, 647, 737  
 Date: \_\_\_\_\_ SHEET 3 OF 3

DESIGNED EJ	REVISED 3/07/17 ADDED TH#52-54	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>I-941-901-290 (Circle Interchange) Chicago, Illinois</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN KLC	REVISED 3/13/17 ADDED TH#54A			N/A		Cook	888	321
CHECKED KS	REVISED 5/01/17 ADDED TH#55A - 56C			Contract No. N/A				
DATE 12/20/16	REVISED			SHEET NO. OF 22 SHEETS STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS	Job No. P-91-259-42	

VERIFIED UTILITY INFORMATION

TEST HOLE **	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
57	SEE NOTE ELEC/FIBER OPTIC	1897009.098	1171448.371	588.19'	4.12'	592.31'	A	
58	SEE NOTE ELEC/FIBER OPTIC	1897024.271	1171446.227	588.36'	3.96'	592.32'	A	
59A	SEE NOTE ELEC/FIBER OPTIC	1897036.487	1171443.974	587.23'	5.08'	592.31'	A	
59B	SEE NOTE ELEC/FIBER OPTIC	1897036.487	1171443.974	589.00'	3.31'	592.31'	A	
60A	SEE NOTE ELEC/FIBER OPTIC	1897064.630	1171436.240	590.08'	2.99'	593.07'	A	
60B	SEE NOTE ELEC/FIBER OPTIC	1897064.630	1171436.240	588.58'	4.49'	593.07'	A	
61	SEE NOTE ELEC/FIBER OPTIC	1897078.362	1171430.925	589.45'	3.29'	592.74'	A	
62	SEE NOTE TELEPHONE	1897586.227	1171323.180	573.12'	7.75'	580.87'	A	
62A	SEE NOTE SEE NOTE	1897585.995	1171323.301	571.77'	9.07'	580.84'	A	
62B	SEE NOTE SEE NOTE	1897585.995	1171323.301	566.27'	14.57'	580.84'	A	

NOTES

TH #57 - Only exposed the top of the eastern edge of the concrete duct. Measured the thickness of the duct to be approximately 14".

TH #58 - Only exposed the top of the eastern edge of the concrete duct. Unable to determine the thickness of the duct due to bricks and big rocks inside the hole.

TH #59A - Manual depth obtained from the bottom of the eastern edge of the concrete duct. Same reference point used in the field for the top and bottom measurements.

TH #59B - Manual depth obtained from the top of the eastern edge of the concrete duct. Same reference point used in the field for the top and bottom measurements.

TH #60A - Manual depth obtained from the top of the eastern edge of the concrete duct. Same reference point used in the field for the top and bottom measurements.

TH #60B - Manual depth obtained from the bottom of the eastern edge of the concrete duct. Same reference point used in the field for the top and bottom measurements.

TH #61 - Only exposed the the top of the eastern edge of the duct. Attempted to expose the bottom of the eastern edge of the duct but was unable to accurately do so due to the curb and gutter.

TH #62 - Only exposed the the top of the eastern edge of the duct. Attempted to expose the bottom of the eastern edge of the duct but was unable to accurately do so due to the curb and gutter.

TH #62A - Depth was recorded from from we believe to be a some type of wooden support for the AT&T tunnel.

TH #62B - Depth was recorded from what we believe to be a some type of wooden support for the AT&T tunnel. Unable to determine if this support was located at the bottom of the AT&T tunnel due to water was infiltrating the hole. Used the same reference point from test hole 62A.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.



**CWA** SURVEY  
 CLAASSEN, WHITE & ASSOCIATES, P.C.  
 LAND SURVEYORS  
 121 AIRPORT DRIVE, UNIT L, JOLIET, ILLINOIS 60431  
 (815) 744-3720 claassenwhitecwasurvey.com

**Cardno**  
 CIVIL ENGINEERING \* TRANSPORTATION \* ENVIRONMENTAL  
 \* PLANNING \* UTILITY ENGINEERING/LOCATING

CARDNO Job No. IL09510531, 563, 647, 737, 748, 761  
 SHEET 4 OF 4

DESIGNED EJ	REVISED 5/24/18 ADDED TH #62 - 62B	STATE OF ILLINOIS			I-941-901-290 (Circle Interchange) Chicago, Illinois	F&A	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN KLC	REVISED	DEPARTMENT OF TRANSPORTATION				N/A	N/A	Cook	888	322
CHECKED KFS	REVISED					Contract No. N/A				
DATE 6/08/17	REVISED				SHEET NO. 22 OF 22 SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS	Job No. P-91-259-12		

**PAVEMENT MARKING SCHEDULE**

LOCATION	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID - LINE 8"	EPOXY PAVEMENT MARKING - LETTERS AND SYMBOLS	EPOXY PAVEMENT MARKING - LINE 4"	EPOXY PAVEMENT MARKING - LINE 5"	EPOXY PAVEMENT MARKING - LINE 8"	EPOXY PAVEMENT MARKING - LINE 12"	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - GRINDING	PAVEMENT MARKING REMOVAL - WATER BLASTING	GROOVING FOR RECESSED PAVEMENT MARKING 9"	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID, 11"	GROOVING FOR RECESSED PAVEMENT MARKING 12"
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SO FT	SO FT	FOOT	FOOT	FOOT
295+76 TO 5102+00	-	-	-	-	465	-	-	-	-	-	-	1,238	-	62	47	47	-	673	465	-	-
5102+00 TO 5113+00	-	-	-	-	825	-	-	-	-	-	-	1,459	1,106	136	97	97	-	1,723	825	160	160
5113+00 TO 5125+00	-	-	-	-	619	110	376	191	507	18	-	1,457	345	83	100	106	-	1,467	619	14	14
5125+00 TO 5137+00	-	-	-	-	-	220	1,202	792	2,001	21	-	-	-	-	128	128	-	1,302	-	-	-
5137+00 TO 5149+00	-	-	-	-	-	292	1,197	793	3,486	37	-	-	-	-	186	144	-	1,884	-	-	-
5149+00 TO 1616+50	-	-	-	-	-	-	5,582	981	1,191	679	-	-	-	-	107	117	897	2,350	-	-	-
1616+50 TO 25+00	-	-	-	-	-	-	5,282	1,244	305	173	-	-	-	-	95	94	61	908	-	-	-
4+48.32 TO 9+00	-	-	-	-	-	-	1,573	589	473	49	-	-	-	-	48	75	-	759	-	-	-
DES PLAINES	633	-	165	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAYLOR	162	242	-	-	-	-	-	-	-	-	519	-	-	-	-	-	-	-	-	-	-
TOTAL	795	242	165	108	1,909	622	15,212	4,590	7,963	977	519	4,154	1,451	281	808	808	958	11,066	1,909	174	174

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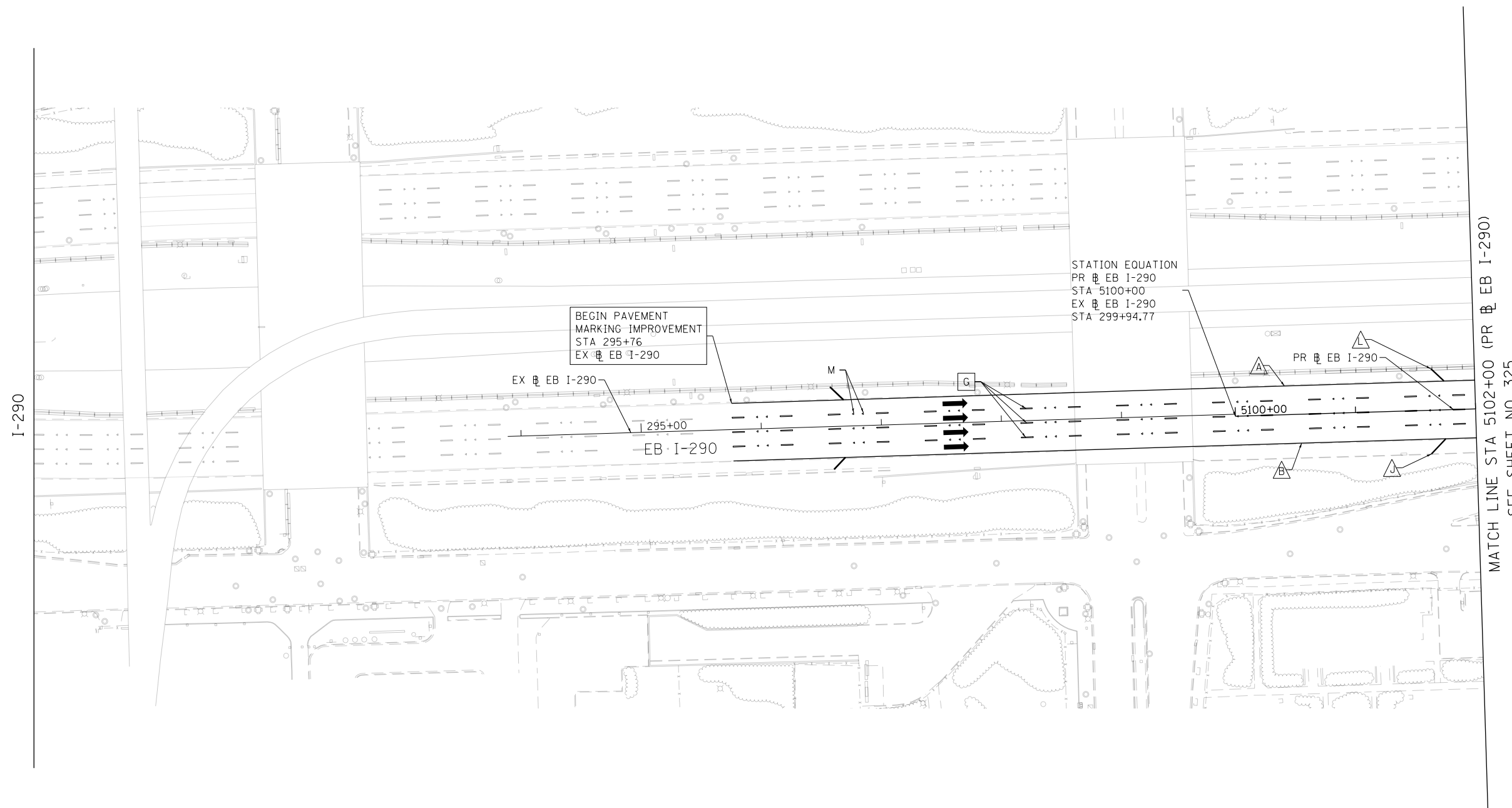
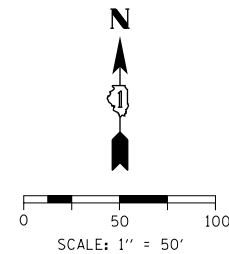
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PLOT DATE = 7/30/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING SCHEDULE**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	323
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X79	



**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
- E - 8" WHITE EDGE LINE
- F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)
- G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"
- H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
- I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS



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 PLOT DATE = 7/29/2018

DESIGNED - BMJ  
 DRAWN - BMJ  
 CHECKED - JMG  
 DATE - 7-30-2018

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

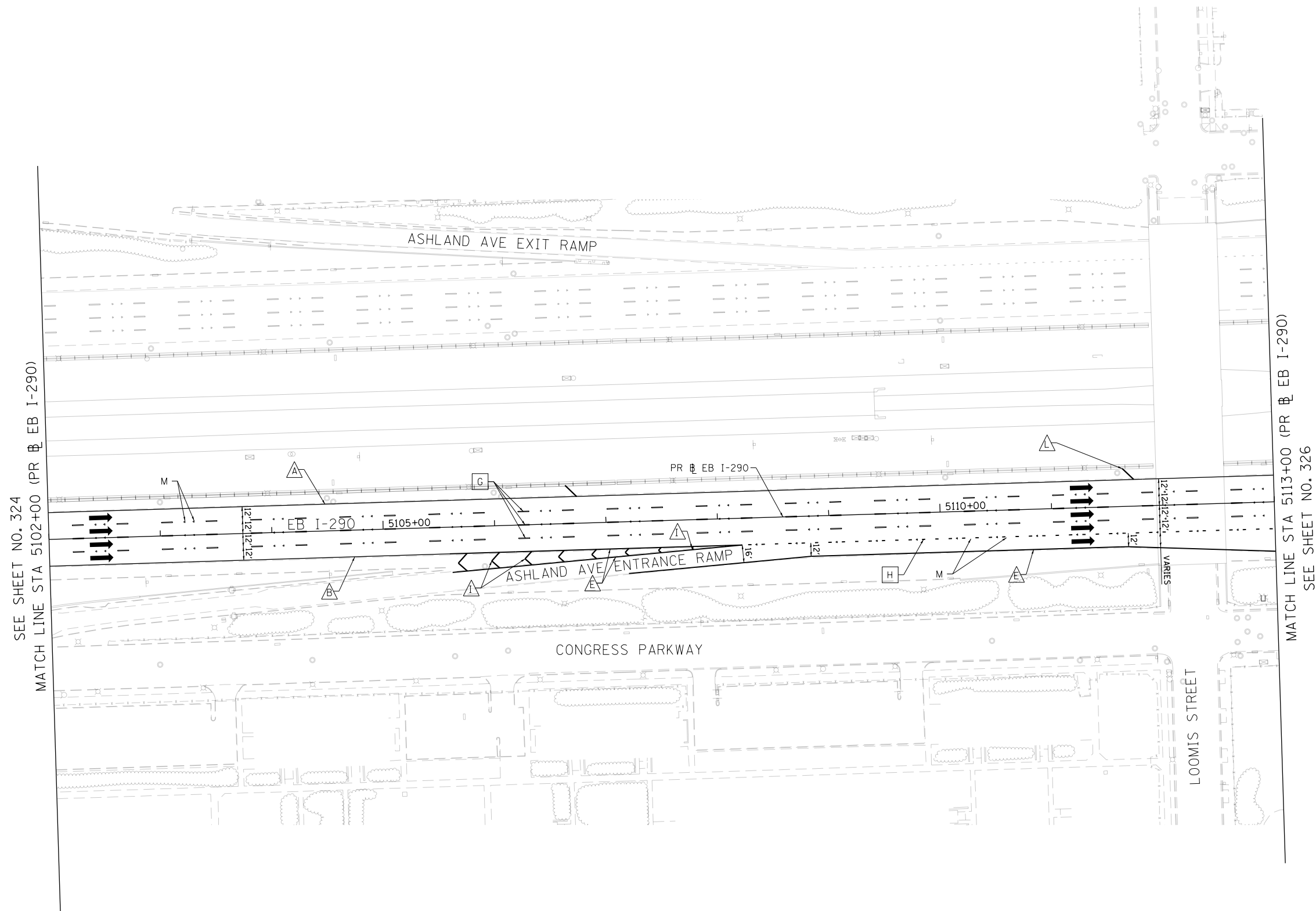
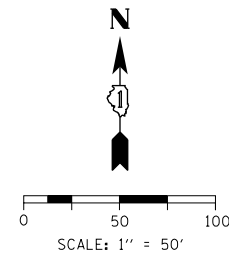
**PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 1 OF 10 SHEETS STA. 295+76 TO STA. 5102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	324
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	

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**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
- E - 8" WHITE EDGE LINE
- F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)
- G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"
- H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
- I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS



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 PLOT DATE = 7/29/2018

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 DRAWN - BMJ  
 CHECKED - JMG  
 DATE - 7-30-2018

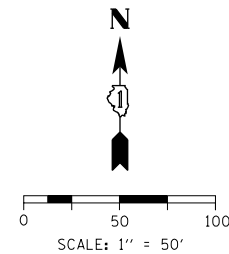
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

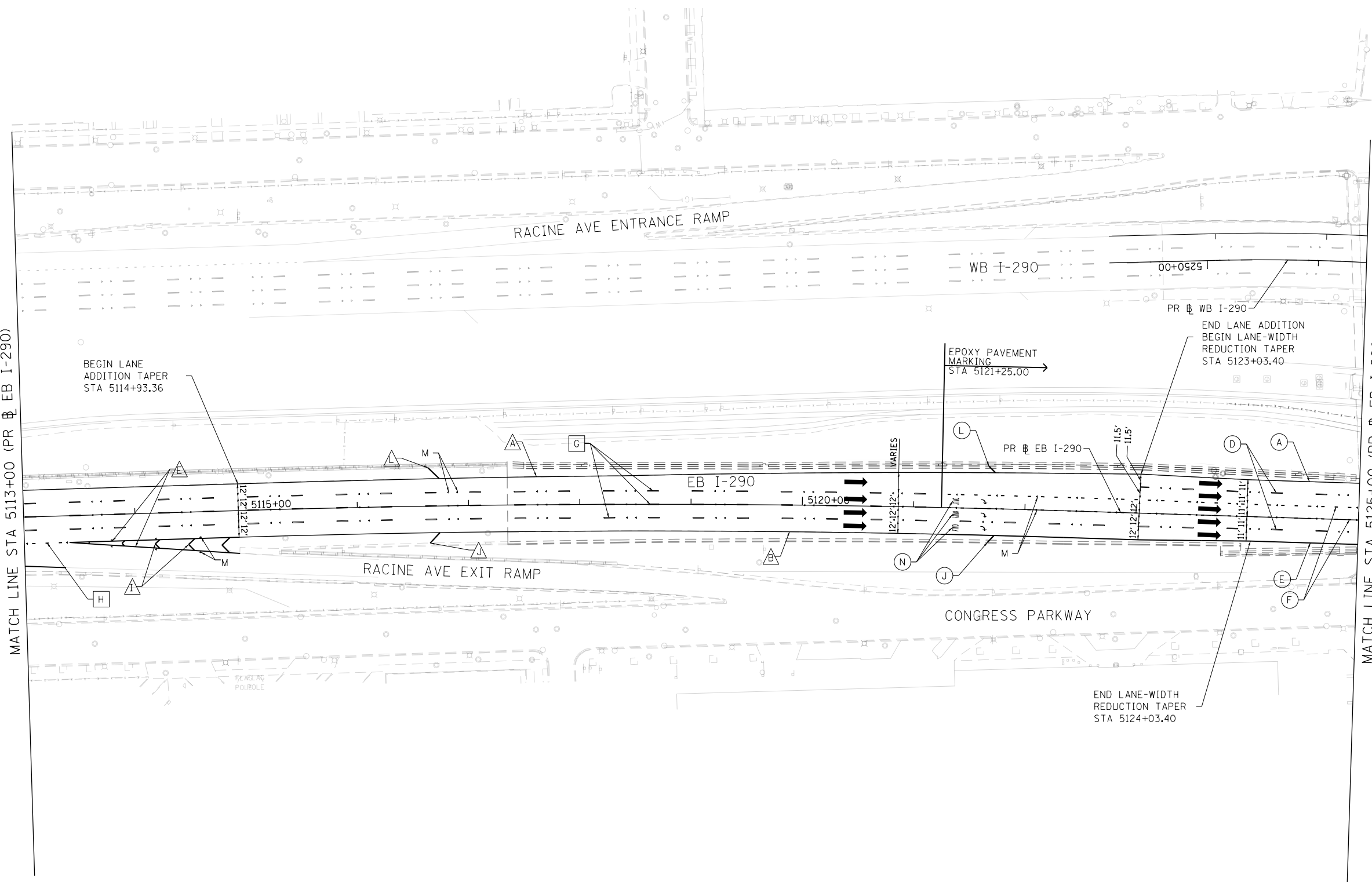
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	325
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



SEE SHEET NO. 325  
MATCH LINE STA 5113+00 (PR & EB I-290)

MATCH LINE STA 5125+00 (PR & EB I-290)  
SEE SHEET NO. 327



**LEGEND**

PAVEMENT MARKING MATERIAL		PAVEMENT MARKING TYPE	
	EPOXY PAVEMENT MARKING	A - 4" YELLOW EDGE LINE	H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING	B - 4" WHITE EDGE LINE	I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
	MODIFIED URETHANE PAVEMENT MARKING	C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)	J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
		D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)	K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
		E - 8" WHITE EDGE LINE	L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
		F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)	M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
		G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"	N - WHITE LETTERS AND SYMBOLS

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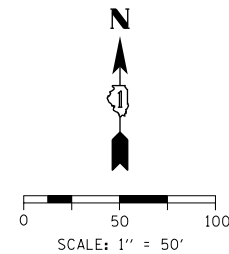
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

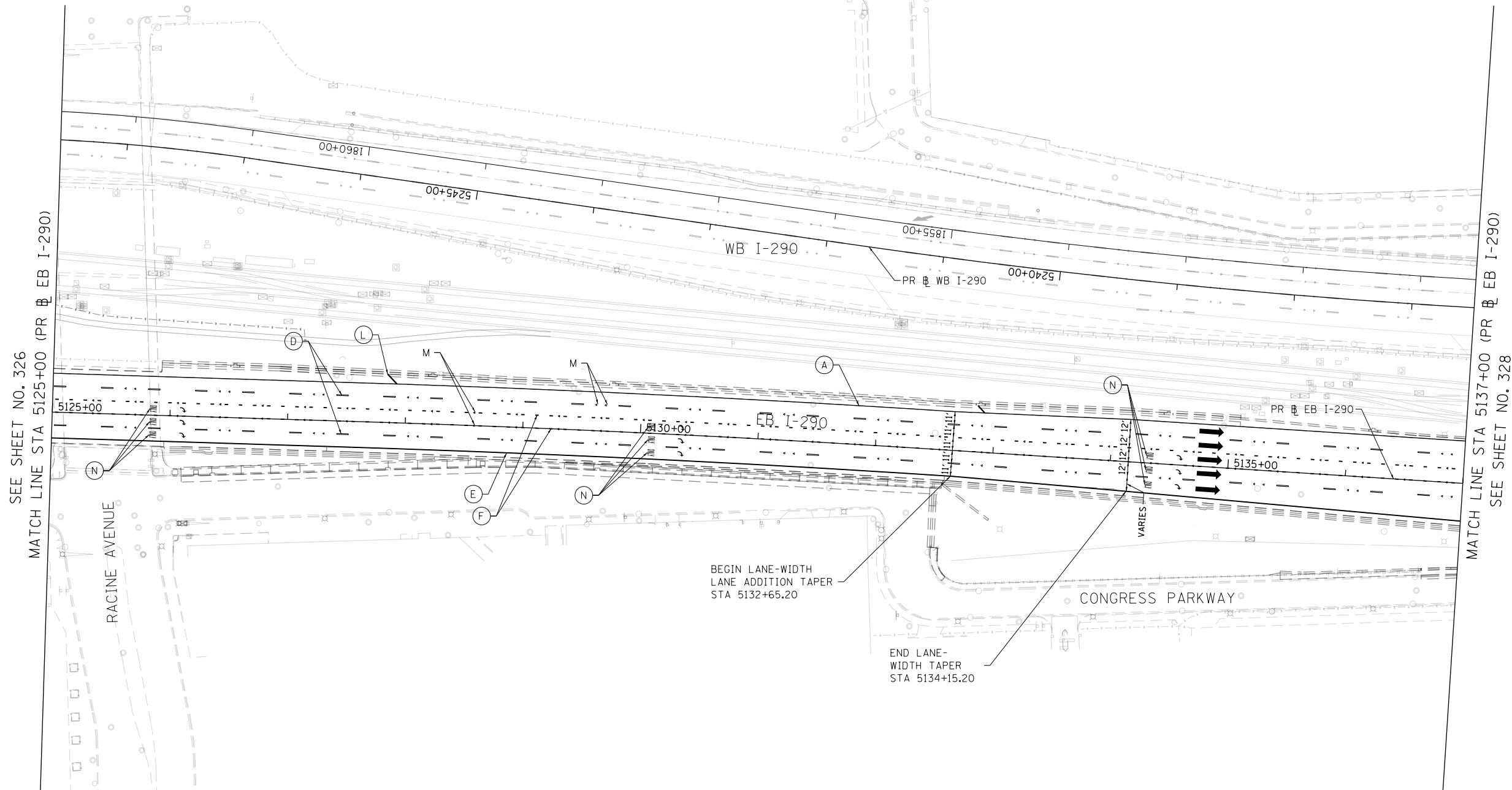
**PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 3 OF 10 SHEETS STA. 5113+00 TO STA. 5125+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	326
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



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**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
- E - 8" WHITE EDGE LINE
- F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)
- G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"
- H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
- I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS



D160X79-SHT-PMK-04.dgn  
 USER NAME = mkwilson  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 7/29/2018

DESIGNED - BMJ  
 DRAWN - BMJ  
 CHECKED - JMG  
 DATE - 7-30-2018

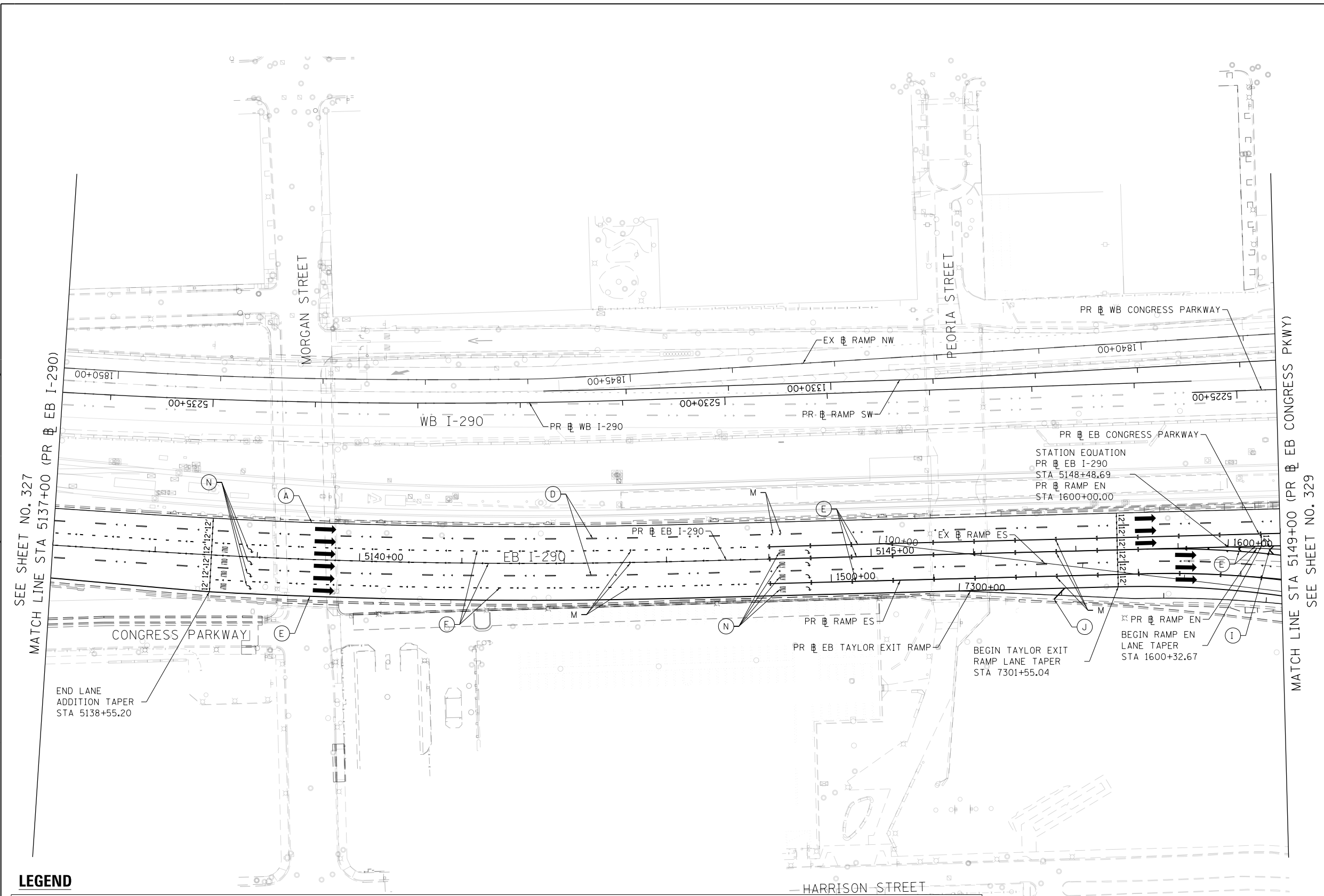
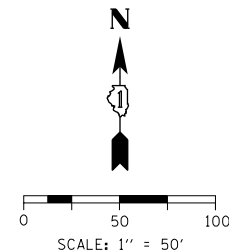
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 1"=50'    SHEET 4 OF 10 SHEETS    STA. 5125+00 TO STA. 5137+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	327
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
- E - 8" WHITE EDGE LINE
- F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)
- G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"
- H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
- I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS

FILE PATH = p:\617479-PMK\Drawings\60X79-SHT-PMK-05.dgn



DI60X79-SHT-PMK-05.dgn
USER NAME = mkwilson
PLOT SCALE = 100.0000' / 1"
PLOT DATE = 7/29/2018

DESIGNED - BMJ	REVISED -
DRAWN - BMJ	REVISED -
CHECKED - JMG	REVISED -
DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 1"=50'    SHEET 5 OF 10 SHEETS    STA. 5137+00 TO STA. 5149+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	328
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



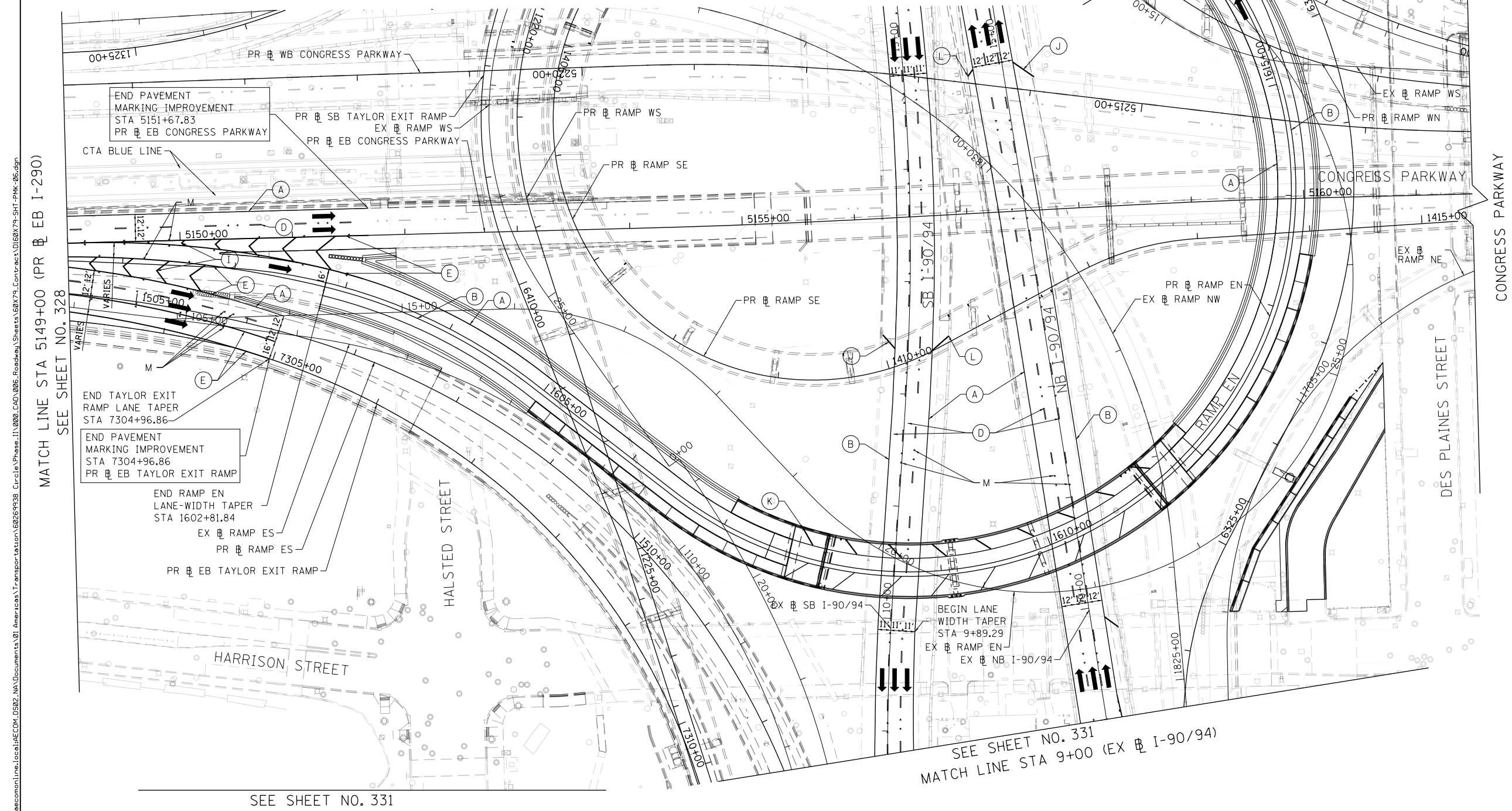
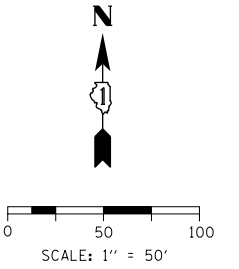
**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
- E - 8" WHITE EDGE LINE
- F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)
- G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"
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- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS



MATCH LINE STA 5149+00 (PR EB I-290)  
 SEE SHEET NO. 328

SEE SHEET NO. 331  
 MATCH LINE STA 9+00 (EX EB I-90/94)

SEE SHEET NO. 331



D:\61779-SHT-PMK-06.dgn  
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 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 7/29/2018

DESIGNED - BMJ  
 DRAWN - BMJ  
 CHECKED - JMG  
 DATE - 7-30-2018

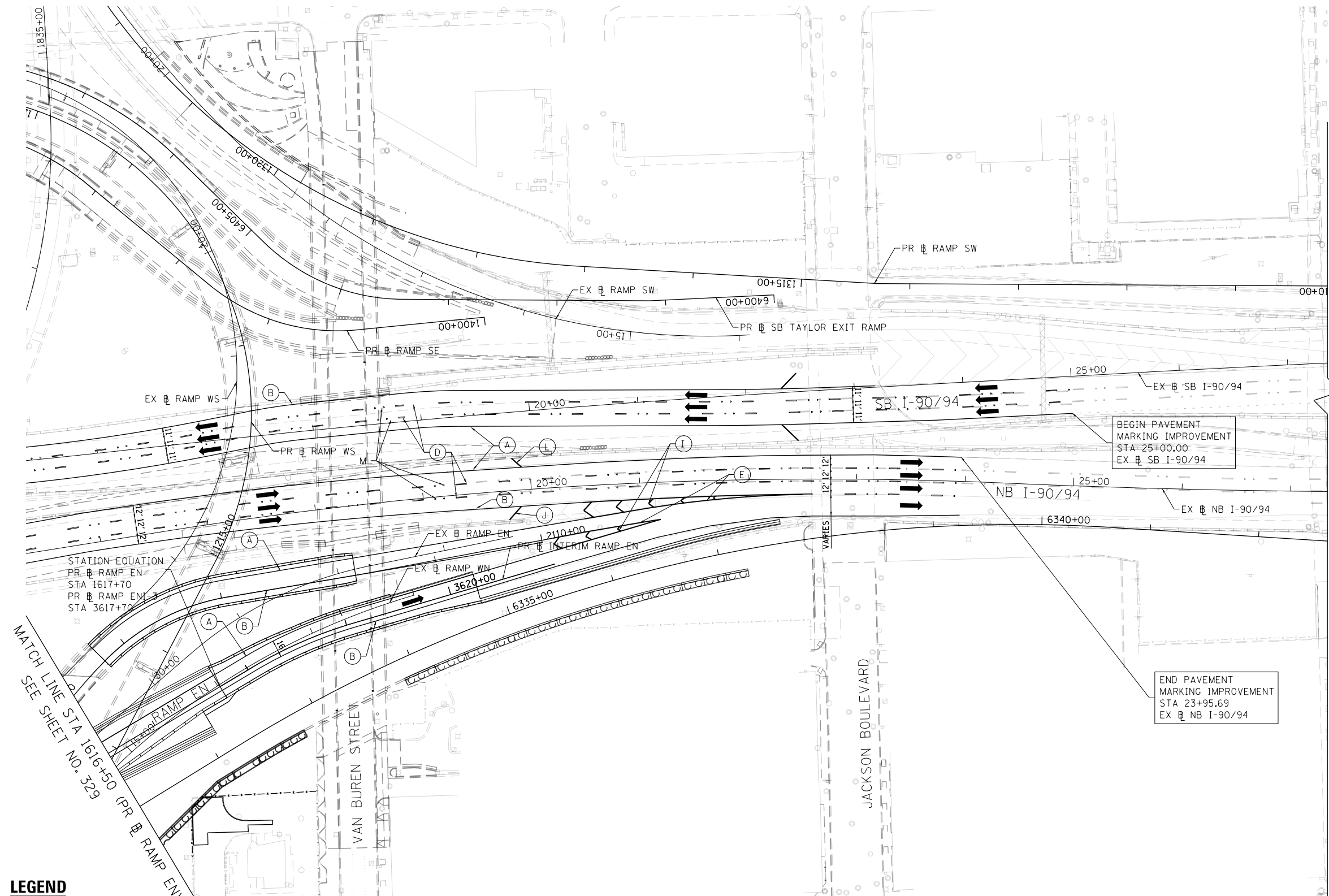
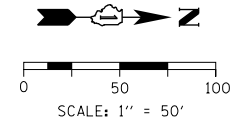
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 REVISED -  
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 1"=50' SHEET 6 OF 10 SHEETS STA. 5149+00 TO STA. 1616+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	329
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**LEGEND**

PAVEMENT MARKING MATERIAL		PAVEMENT MARKING TYPE	
○	EPOXY PAVEMENT MARKING	A - 4" YELLOW EDGE LINE	H - 11" CONTRAST LANE LINE (3' DASH, 9' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 12"
□	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING	B - 4" WHITE EDGE LINE	I - 12" WHITE CHEVRONS SPACED @ 30' CENTERS
△	MODIFIED URETHANE PAVEMENT MARKING	C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)	J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
		D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)	K - 12" YELLOW 45° DIAGONALS SPACED @ 40' CENTERS
		E - 8" WHITE EDGE LINE	L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
		F - 8" WHITE LANE LINE (3' DASH, 9' SKIP)	M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
		G - 8" CONTRAST LANE LINE (10' DASH, 30' SKIP) AND GROOVING FOR RECESSED PAVEMENT MARKING 9"	N - WHITE LETTERS AND SYMBOLS

FILE PATH = p:\61779-PMK\Drawings\61779-PMK-07.dgn



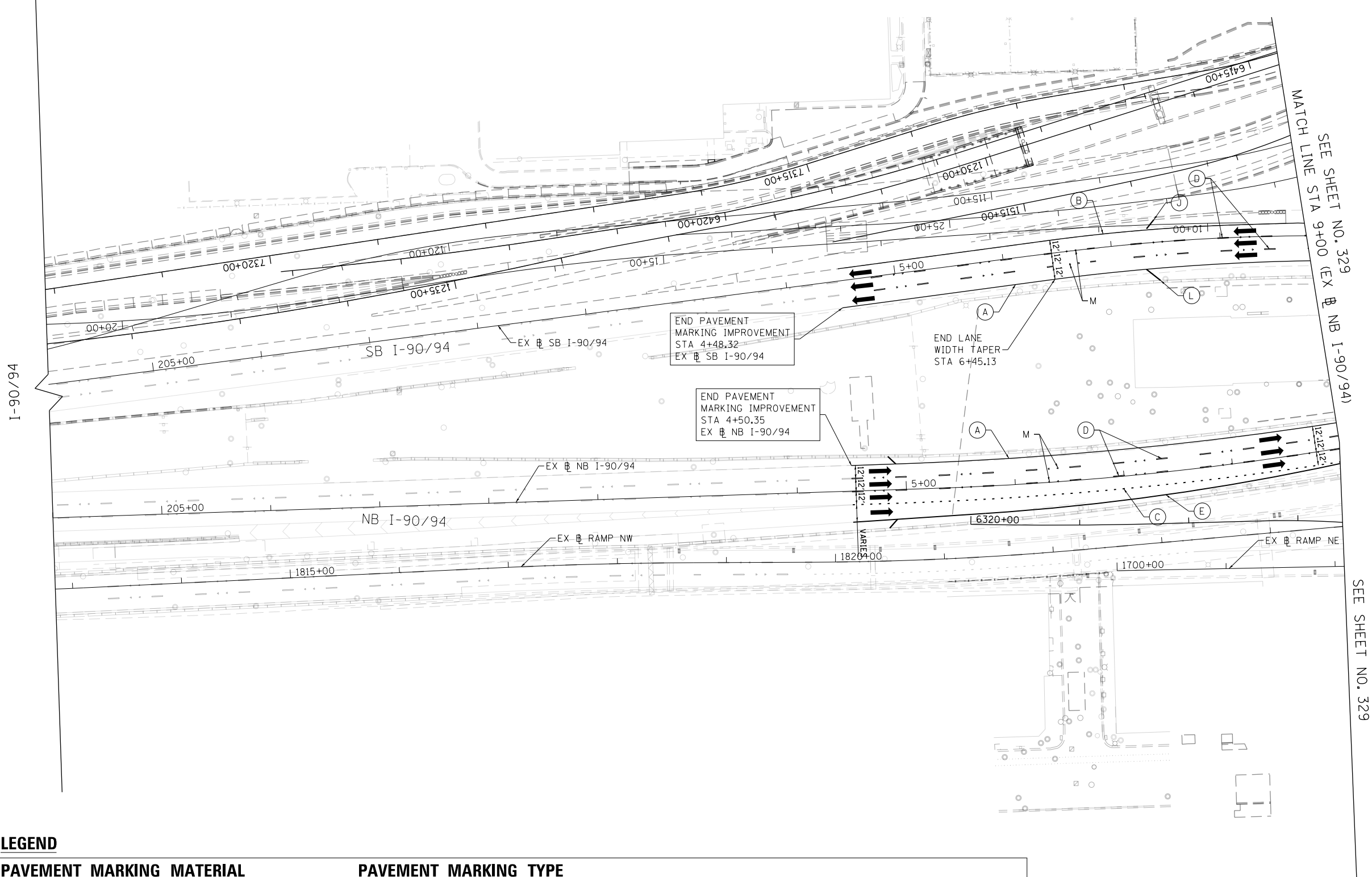
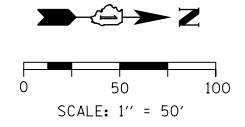
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USER NAME = mkwilson	DRAWN - BMJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 7/29/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 1"=50'    SHEET 7 OF 10 SHEETS    STA. 1616+50    TO STA. 6211+35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	330
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**LEGEND**

**PAVEMENT MARKING MATERIAL**

- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
- C - 4" WHITE LANE LINE (2' DASH, 6' SKIP)
- D - 5" WHITE LANE LINE (10' DASH, 30' SKIP)
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- L - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- M - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)
- N - WHITE LETTERS AND SYMBOLS

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D160X79-SHT-PMK-08.dgn  
 USER NAME = mkwilson  
 PLOT SCALE = 100.0000' / in.  
 PLOT DATE = 7/29/2018

DESIGNED - BMJ  
 DRAWN - BMJ  
 CHECKED - JMG  
 DATE - 7-30-2018

REVISED -  
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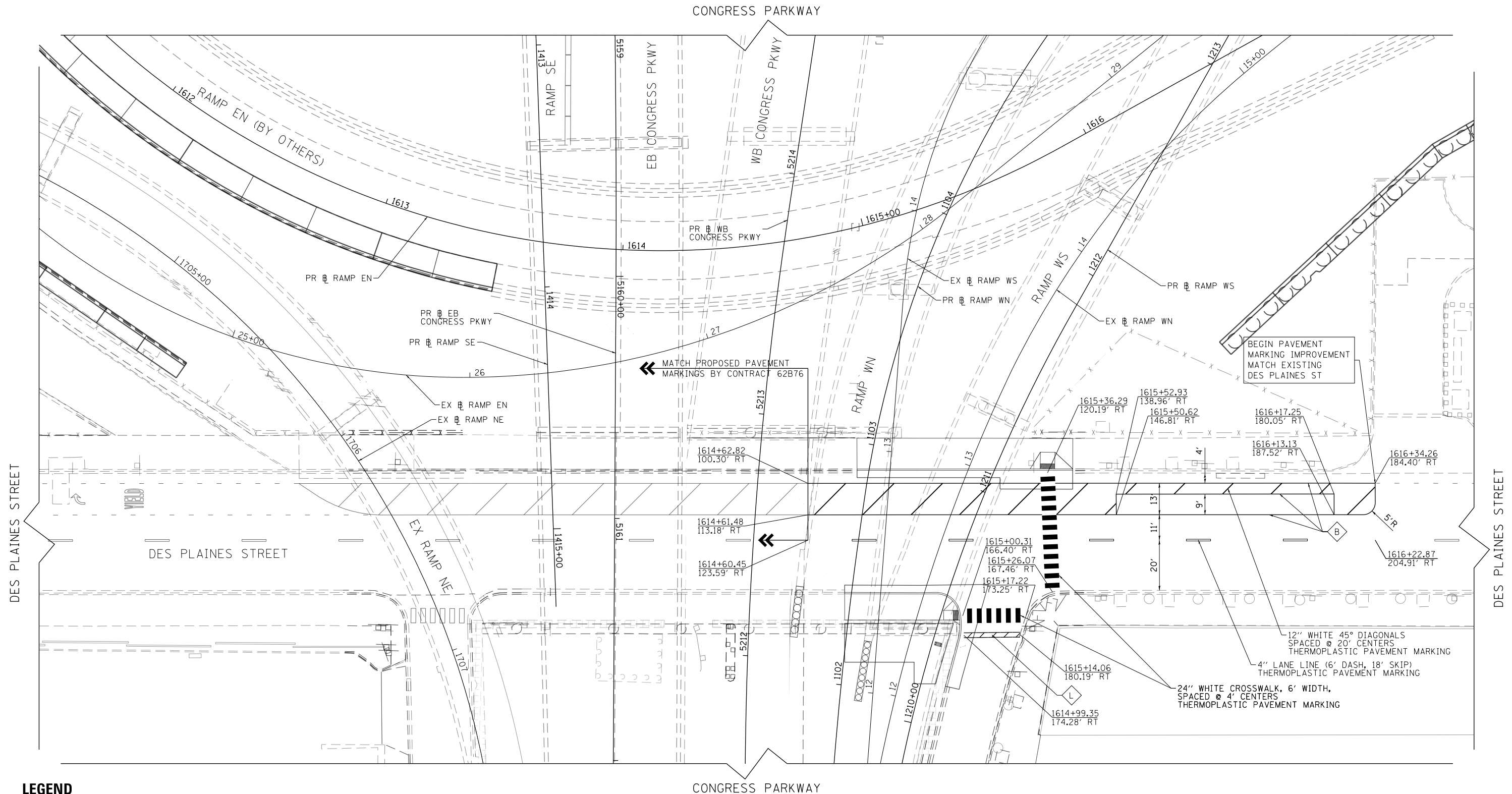
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLANS**

SCALE: 1"=50'    SHEET 8 OF 10 SHEETS    STA. 1616+50    TO STA. 6211+35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	331
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	

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**LEGEND**

**PAVEMENT MARKING MATERIAL**

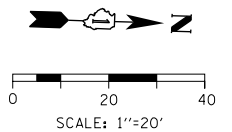
- ◇ THERMOPLASTIC PAVEMENT MARKING
- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
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**PAVEMENT MARKING TYPE**

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- J - 12" WHITE 45° DIAGONALS SPACED @ 500' CENTERS
- K - 12" YELLOW 45° DIAGONALS SPACED @ 500' CENTERS
- L - 24" WHITE STOP BAR
- M - WHITE LETTERS & SYMBOLS
- N - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)

**NOTES:**

1. SEE SHEET 328 FOR PR MAINLINE/RAMP PAVEMENT MARKINGS.



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USER NAME = mkwilson	DRAWN - BMJ	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 7/30/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
DES PLAINES STREET**

SCALE: 1"=20' SHEET 9 OF 10 SHEETS STA. 1209+50 TO STA. 1215+00

F.A.I. R.T.E. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 332
CONTRACT NO. 60X79				ILLINOIS FED. AID PROJECT



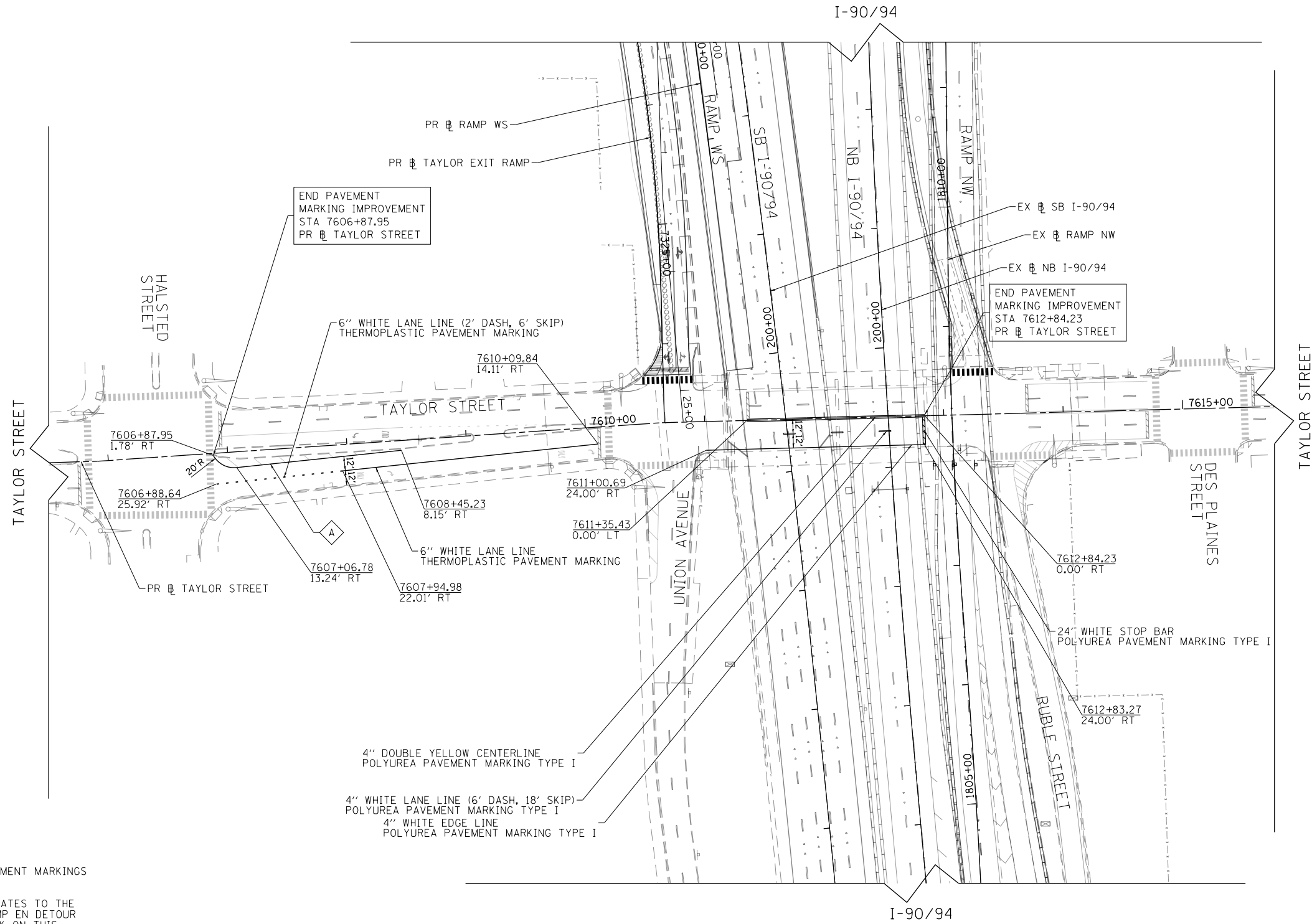
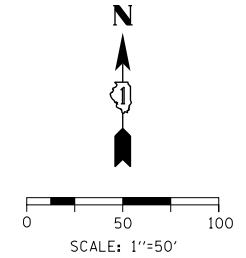
**LEGEND**

**PAVEMENT MARKING MATERIAL**

- ◇ THERMOPLASTIC PAVEMENT MARKING
- EPOXY PAVEMENT MARKING
- PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - INLAID GROOVING FOR RECESSED PAVEMENT MARKING
- △ MODIFIED URETHANE PAVEMENT MARKING

**PAVEMENT MARKING TYPE**

- A - 4" YELLOW EDGE LINE
- B - 4" WHITE EDGE LINE
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- L - 24" WHITE STOP BAR
- M - WHITE LETTERS & SYMBOLS
- N - RAISED REFLECTIVE PAVEMENT MARKER (1-WAY CRYSTAL/OPAQUE)



**NOTES:**

1. RAMP AND MAINLINE PAVEMENT MARKINGS BY CONTRACT 60X93.
2. WORK ON THIS SHEET RELATES TO THE RESTORATION OF THE RAMP EN DETOUR IN CONTRACT 60X79. WORK ON THIS SHEET SHALL ONLY PROCEED IF DIRECTED BY THE RESIDENT ENGINEER.

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D160X79-SHT-PMK-10.dgn	DESIGNED - BMJ	REVISED -
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PLOT DATE = 9/6/2018	DATE - 9-10-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
TAYLOR STREET**

SCALE: 1"=50' SHEET 10 OF 10 SHEETS STA. 1209+50 TO STA. 1215+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	333
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	

**SIGNING SCHEDULE**

LOCATION	SIGN NO.	LEGEND / DESCRIPTION	CODE	ACTION	LOCATION (STATION / OFFSET)				EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		NUMBER OF POSTS	REMOVE SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 1 (SQ FT)	RELOCATE SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 3 (SQ FT)	RELOCATE SIGN PANEL - TYPE 3 (SQ FT)	METAL POST - TYPE B (FT)	STEEL POSTS, SPECIAL (EACH)	OVERHEAD SIGN STRUCTURE - SPAN, TYPE 1-A (4'-0" X 4'-6") (FT)
					EXISTING		PROPOSED		WIDTH (FT)	HEIGHT (FT)	WIDTH (FT)	HEIGHT (FT)									
EB I-290	EB-01-BM	CONGRESS PKWY LEFT 2 LANES	CUSTOM	EXISTING SIGN TO REMAIN	5139+15.89	0.00'	-	-	20.00	7.00	-	-									
	EB-02-BM	WEST JFK EXPWY WISCONSIN/EAST RYAN EXPWY INDIANA, EXIT ONLY	CUSTOM	EXISTING SIGN TO REMAIN	5139+15.89	0.00'	-	-	32.00	13.50	-	-									
	EB-03-BM	11'-0"	W12-2	EXISTING SIGN TO REMAIN	5139+15.89	0.00'	-	-	4.00	4.00	-	-									
	EB-04-BM	MORGAN ST 1000 W	CUSTOM	EXISTING SIGN TO REMAIN	5139+15.89	26.00' RT	-	-	6.00	2.50	-	-									
	EB-05-BM	PEORIA ST 900 W	CUSTOM	EXISTING SIGN TO REMAIN	5145+56.42	40.00' RT	-	-	7.00	2.00	-	-									
	EB-06-BM	EXIT 52 A	CUSTOM	EXISTING SIGN TO REMAIN	5145+56.42	40.00' RT	-	-	11.50	2.50	-	-									
RAMP EN	EN-05-BM	TAYLOR ST, ROOSEVELT RD, EXIT ONLY	CUSTOM	EXISTING SIGN TO REMAIN	5145+56.42	40.00' RT	-	-	16.50	9.50	-	-									
	EN-01-OH	CONGRESS PKWY, EXPRESSWAY ENDS	CUSTOM	EXISTING SIGN TO REMAIN	1600+18.73	0.00'	-	-	20.00	10.00	-	-									
	EN-02-OH	WEST KENNEDY EXPY WISCONSIN, EXIT ONLY	CUSTOM	EXISTING SIGN TO REMAIN	1600+18.73	0.00'	-	-	20.50	13.50	-	-									
	EN-03-OH	EAST RYAN EXPY INDIANA, EXIT ONLY	CUSTOM	EXISTING SIGN TO REMAIN	1600+18.73	0.00'	-	-	18.50	13.50	-	-									
	EN-04-TM	SPEED LIMIT, 45	R2-1	EXISTING SIGN TO REMAIN	1600+12.76	41.11' LT	-	-	3.00	4.00	-	-									
	EN-05-TM	EXIT 52 A	CUSTOM	EXISTING SIGN TO REMAIN	1600+12.76	0.00'	-	-	11.50	2.50	-	-									
	EN-06-TM	TAYLOR ST, ROOSEVELT RD, EXIT ONLY	CUSTOM	EXISTING SIGN TO REMAIN	1600+12.76	0.00'	-	-	16.50	9.50	-	-									
	EN-07-ST	DOUBLE ARROW	W12-1	EXISTING SIGN TO REMAIN	1601+97.77	25.30' RT	-	-	3.00	3.00	-	-									
	EN-08-MP	EXIT	E5-1	EXISTING SIGN TO BE RELOCATED	1602+95.00	22.68' LT	1603+08.19	28.44' LT	6.00	5.00	-	-	2				30.00	19			
	EN-09-TM	RAMP, 30 MPH	W13-3	EXISTING SIGN TO REMAIN	1603+69.04	37.13' LT	-	-	3.00	4.00	-	-									
	EN-10-OH	CHICAGO LOOP EXITS	CUSTOM	PROPOSED SIGN	1609+08.15	0.00'	-	-	-	-	26.00	11.50					299.00			50	
	EN-11-ST	CTA BUS STOP	CUSTOM	EXISTING SIGN TO BE RELOCATED	1611+26.16	149.26' RT	1611+26.16	149.26' RT	2.00	2.00	-	-			4				1		
	EN-12-MP	MERGE	W4-1	EXISTING SIGN TO REMAIN	1618+77.67	24.00' LT	-	-	4.00	4.00	-	-									
	EN-13-TS	ADDED LANE	W4-3	EXISTING SIGN TO REMAIN	1620+87.07	14.74' LT	-	-	4.00	4.00	-	-									
	EN-14-FM	NO PARKING	R8-3A	REMOVE	1617+28.75	213.97' RT	-	-	1.50	2.00	-	-	3								
EN-15-FM	NO PARKING	R8-3A	PROPOSED SIGN	-	-	1617+28.75	213.97' RT	-	-	1.50	2.00		3	3							
TOTAL												2	3	3	4	299	30	19	1	50	



R8-3A  
REFLECTIVE: NO  
MOUNT: CENTER  
(18"x24")  
EN-15-FM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

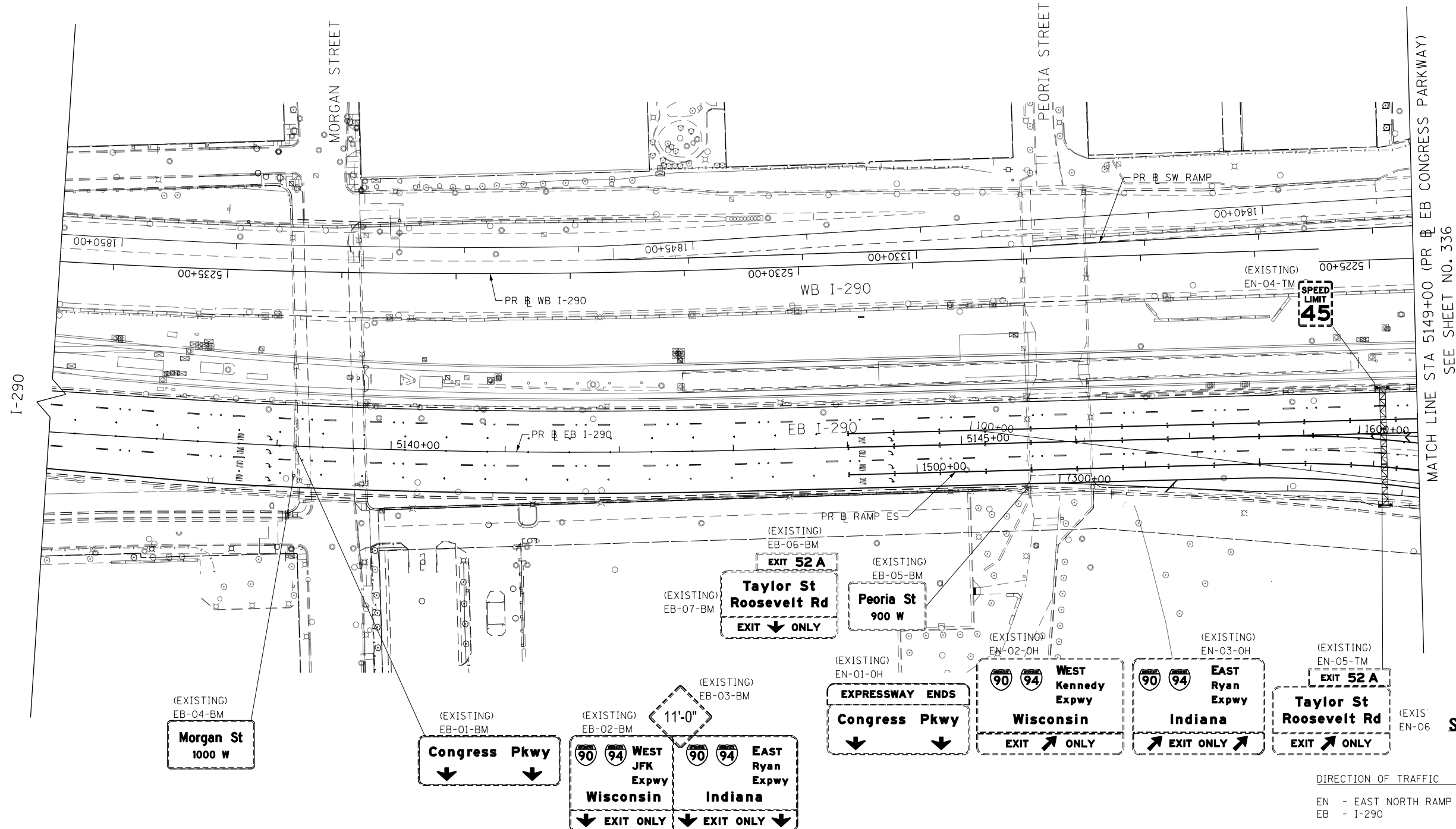
**SIGNING SCHEDULE**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	334
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	



0 50 100  
SCALE: 1"=50'



SPEED LIMIT 45

MATCH LINE STA 5149+00 (PR & EB CONGRESS PARKWAY)  
SEE SHEET NO. 336

(EXISTING) EB-04-BM  
**Morgan St**  
1000 W

(EXISTING) EB-01-BM  
**Congress Pkwy**

(EXISTING) EB-02-BM  
11'-0"  
**Wisconsin Indiana**  
EXIT ONLY

(EXISTING) EB-06-BM  
**EXIT 52 A**  
**Taylor St Roosevelt Rd**  
EXIT ONLY

(EXISTING) EB-05-BM  
**Peoria St**  
900 W

(EXISTING) EN-01-OH  
**EXPRESSWAY ENDS**  
**Congress Pkwy**

(EXISTING) EN-02-OH  
**90 94 WEST Kennedy Expwy**  
**Wisconsin**  
EXIT ONLY

(EXISTING) EN-03-OH  
**90 94 EAST Ryan Expwy**  
**Indiana**  
EXIT ONLY

(EXISTING) EN-05-TM  
**EXIT 52 A**  
**Taylor St Roosevelt Rd**  
EXIT ONLY

(EXISTING) EN-06  
**SIGN NUMBERING CODE EXAMPLE**

DIRECTION OF TRAFFIC  
EN - EAST NORTH RAMP  
EB - I-290

SIGN PANEL NUMBER

DP-01-LP MOUNTING TYPE

- ST - STEEL POST
- TS - TELESCOPING STEEL
- LP - LIGHT POLE BANDING
- SP - SIGNAL POLE BANDING
- SA - SIGNAL POLE MAST ARM
- BM - BRIDGE MOUNTED
- BS - BREAKAWAY STEEL
- WP - WOOD POST
- OH - OVERHEAD
- TM - TRUSS SUPPORT MOUNTED
- FM - FENCE MOUNTED
- MP - METAL POST
- BW - BARRIER WALL MOUNTED

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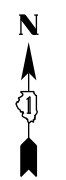
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DRAWN - MKW  
CHECKED - JMG  
DATE - 7-30-2018  
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 5135+00 TO STA. 5149+00

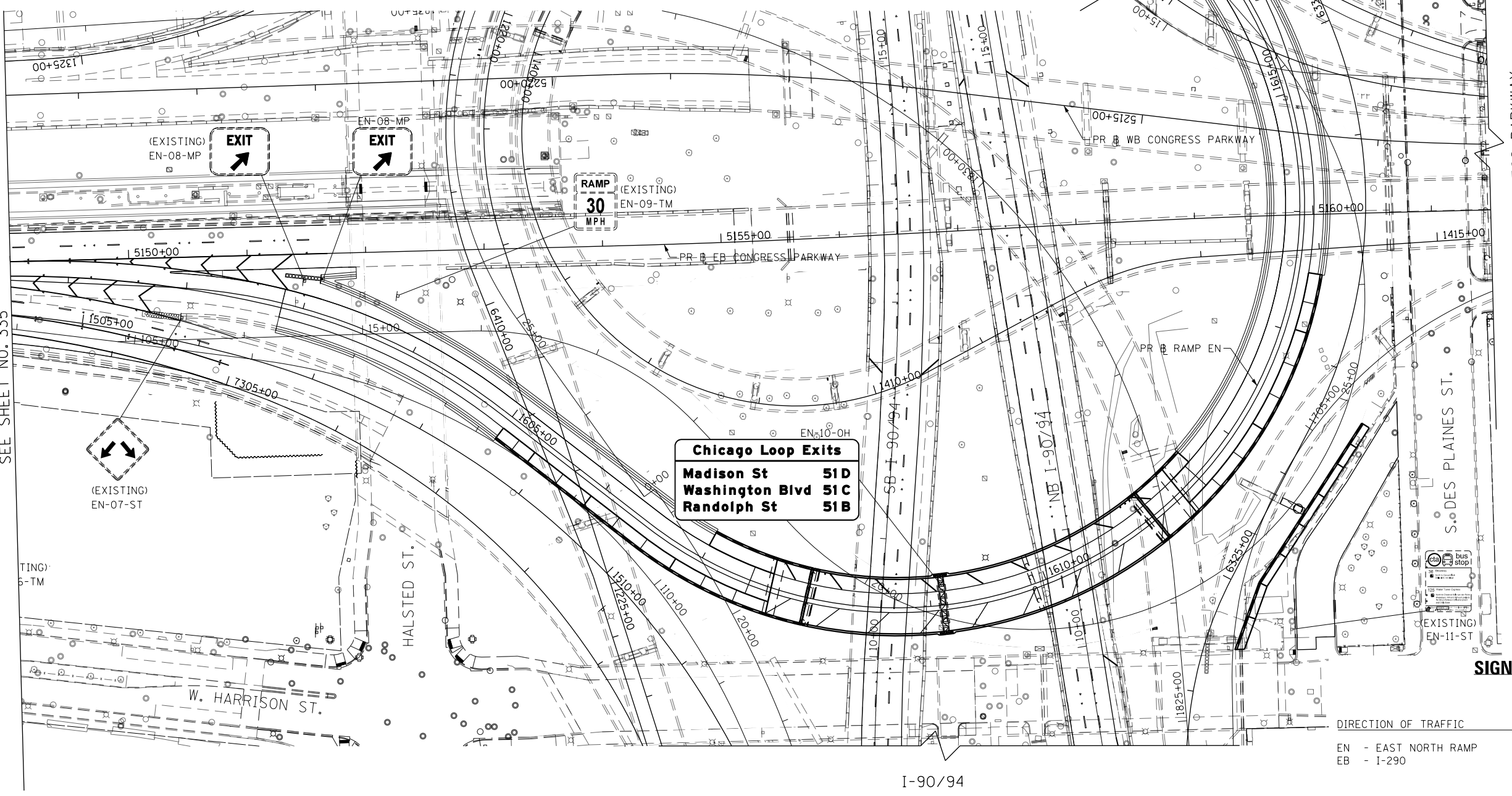
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	335
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



SCALE: 1"=50'

MATCH LINE STA 5149+00 (PR EB CONGRESS PARKWAY)  
SEE SHEET NO. 335

MATCH LINE STA 1616+50 (PR WB RAMP EN)  
SEE SHEET NO. 337



**Chicago Loop Exits**  
Madison St 51D  
Washington Blvd 51C  
Randolph St 51B

**SIGN NUMBERING CODE EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EN - EAST NORTH RAMP		ST - STEEL POST
EB - I-290		TS - TELESCOPING STEEL
		LP - LIGHT POLE BANDING
		SP - SIGNAL POLE BANDING
		SA - SIGNAL POLE MAST ARM
		BM - BRIDGE MOUNTED
		BS - BREAKAWAY STEEL
		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

SIGN PANEL NUMBER



D160X79-SHT-SIGN-02.dgn	DESIGNED - MKW	REVISED -
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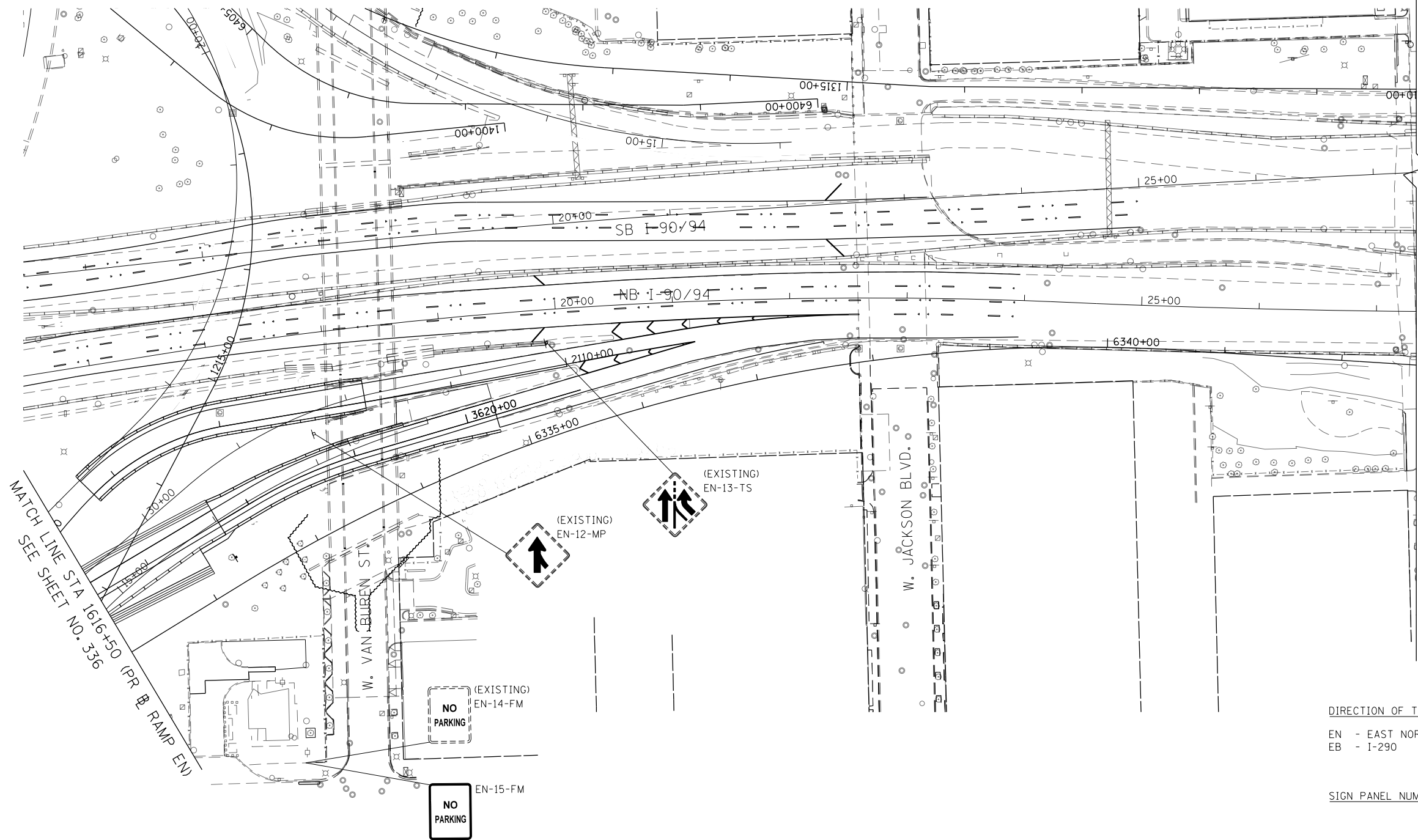
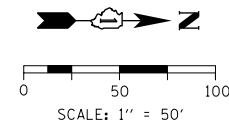
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN**

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 5149+00 TO STA. 1616+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	336
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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I-90/94

**SIGN NUMBERING CODE EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EN - EAST NORTH RAMP		ST - STEEL POST
EB - I-290		TS - TELESCOPING STEEL
		LP - LIGHT POLE BANDING
		SP - SIGNAL POLE BANDING
		SA - SIGNAL POLE MAST ARM
		BM - BRIDGE MOUNTED
		BS - BREAKAWAY STEEL
		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

MATCH LINE STA 1616+50 (PR RAMP EN) SEE SHEET NO. 336

FILE PATH = p:\61779-P\INT\p\mnt\p\comon\line\local\p\ecm\0502\_M\Documents\01\_Americas\Transportation\60269938\_Circle\Phase\_11\000\_CAD\006\_Roadway\Sheets\60X79\_Contract\0160X79-SHT-SIGN-03.dgn



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 PLOT DATE = 7/29/2018

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DRAWN - MKW	REVISED -
CHECKED - JMG	REVISED -
DATE - 7-30-2018	REVISED -

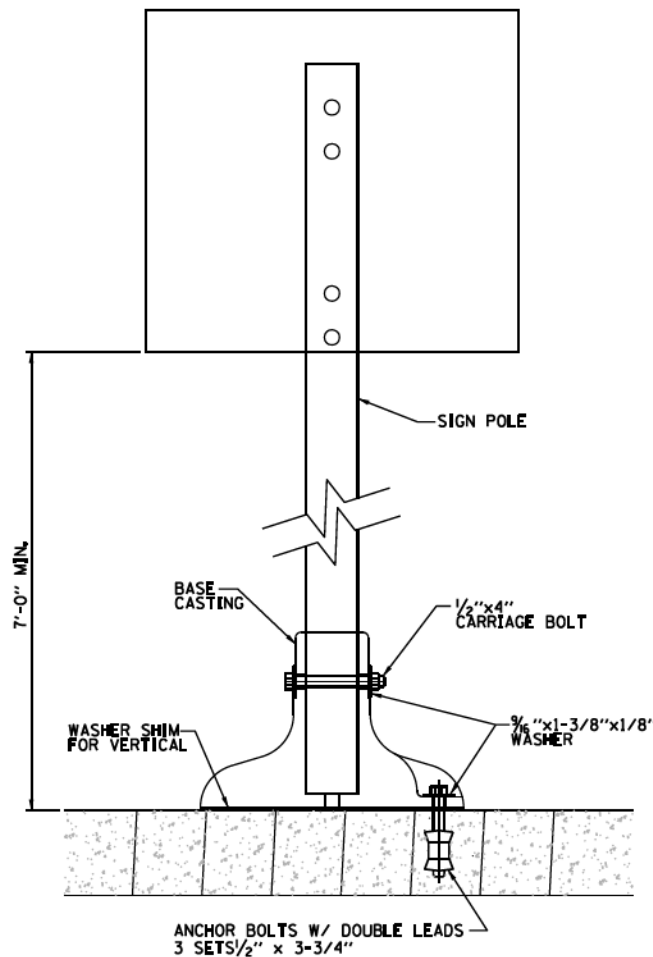
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN**

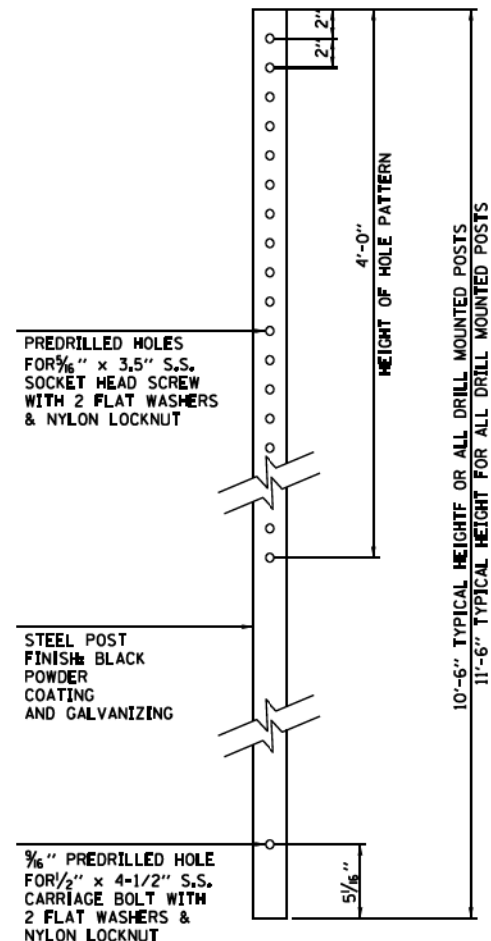
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	337
				CONTRACT NO. 60X79
ILLINOIS FED. AID PROJECT				

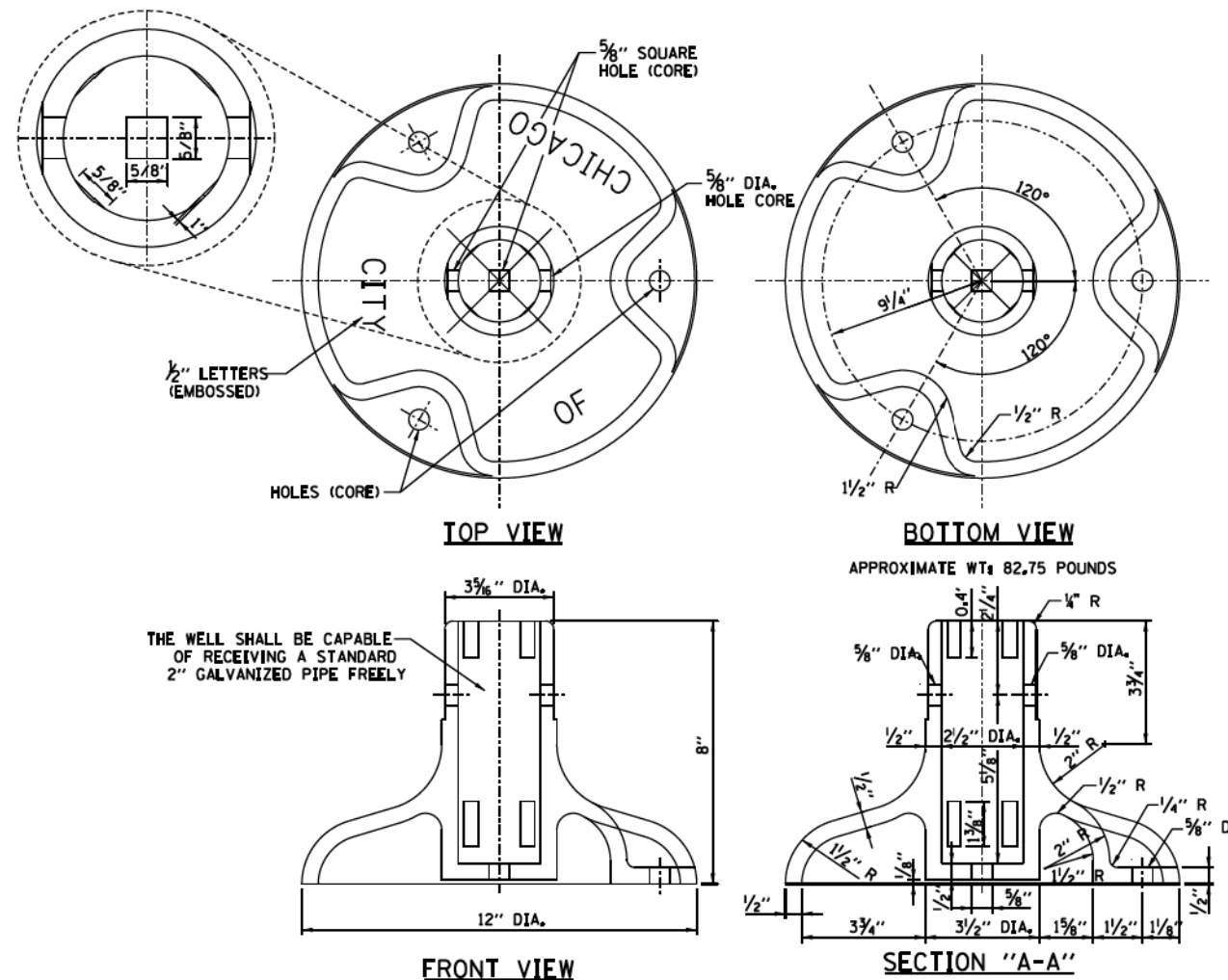




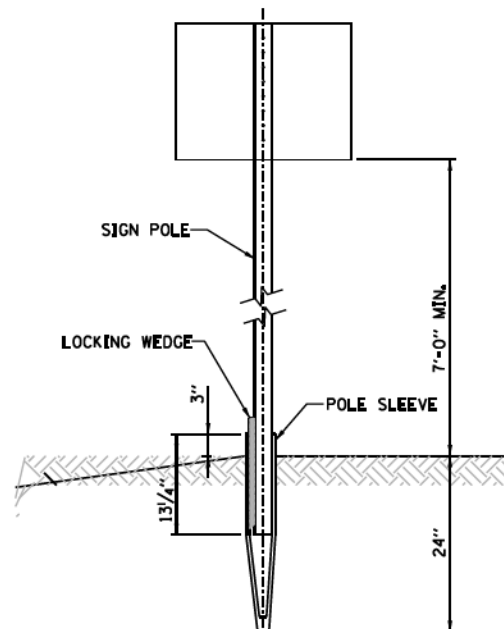
**DRILL MOUNTED INSTALLATION DETAIL**  
NOT TO SCALE



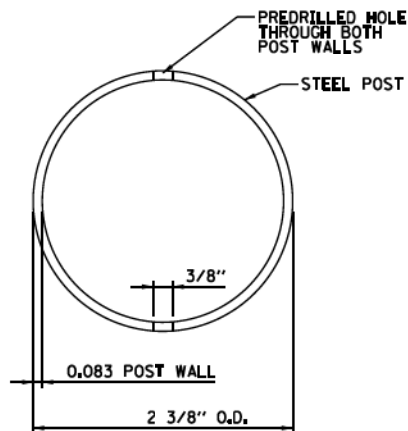
**1 ELEVATION: DRILLED SIGN POST**  
NOT TO SCALE



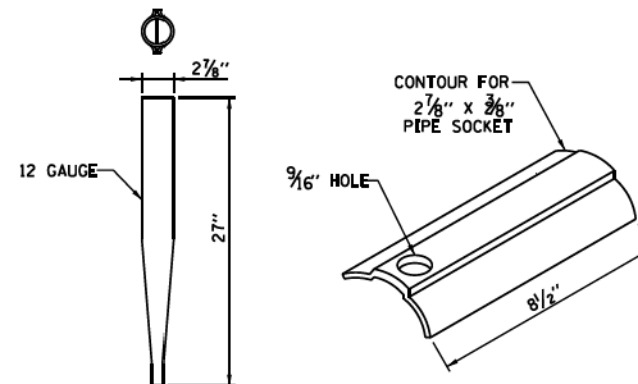
**SIGN POLE BASE DETAIL**  
NOT TO SCALE



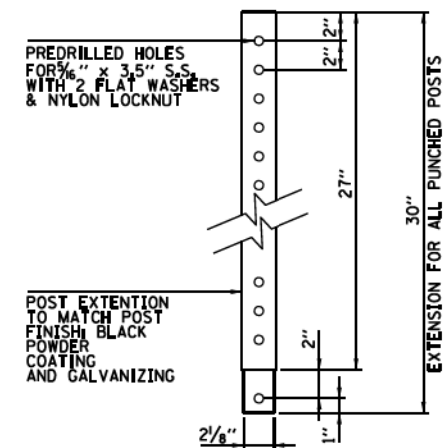
**GROUND DIG INSTALLATION DETAIL**  
NOT TO SCALE



**2 ELEVATION: DRILLED POST**  
NOT TO SCALE



**PIPE SOCKET AND WEDGE DETAIL**  
NOT TO SCALE



**SECTION: DRILLED POST EXTENSION**  
NOT TO SCALE

**NOTE:**  
PROVIDE ADDITIONAL TWO SETS OF PREDRILLED HOLES ON EXTENSION. HOLES SHALL BE LOCATED AT 30° ANGLE TO HOLES SHOWN IN SECTION 3. HOLES SHALL ACCOMMODATE 3/8\"/>

FILE PATH = p:\617479-P\INT\ascomon\line\local\IACOM\DS02\_MN\Documents\01\_Americas\Transportation\60269938\_Circle\Phase\_11\2006\_CAD\006\_Roadway\Sheets\60X79\_Contract\0160X79-SHT-SIGN-DET-01.dgn

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PLOT DATE = 7/30/2018	DATE - 7-30-2018	REVISED -

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DRAWN - BAW	REVISED -
CHECKED - JMG	REVISED -
DATE - 7-30-2018	REVISED -

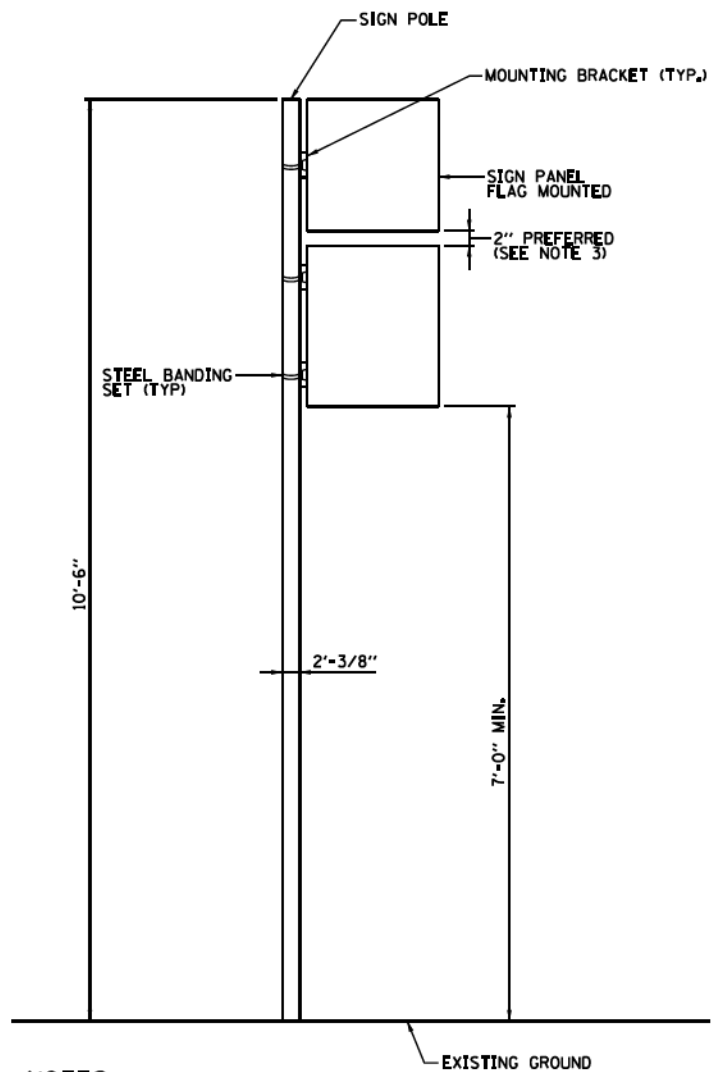
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	338
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

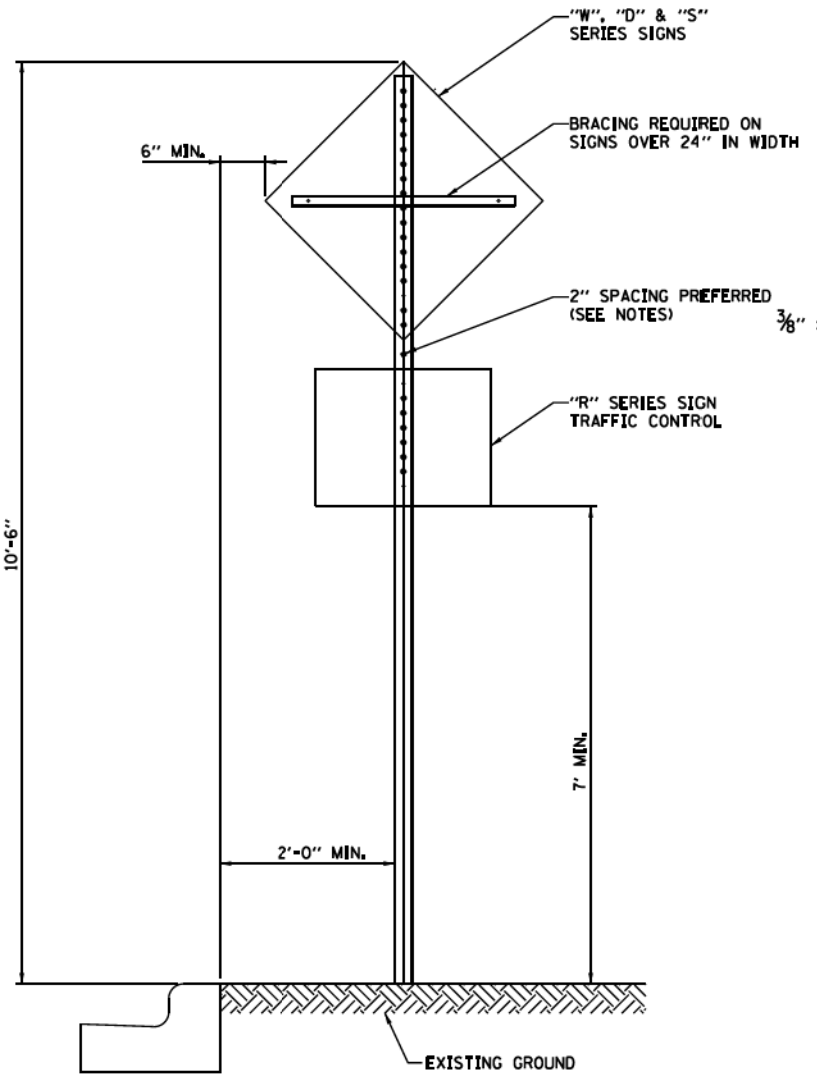
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**NOTES:**

1. PROVIDE ONE MOUNTING BRACKET FOR SIGNS 18" AND UNDER.
2. PROVIDE TWO MOUNTING BRACKETS FOR SIGNS OVER 18".
3. REDUCE SPACING IF REQUIRED TO MAINTAIN MIN. 7'-0" CLEARANCE TO BOTTOM OF SIGN.
4. FLAG MOUNT SIGNS TOWARD SIDEWALK ALONG ARTERIAL STREETS.
5. FLAG MOUNT ALL PARKING REGULATIONS SIGNS.

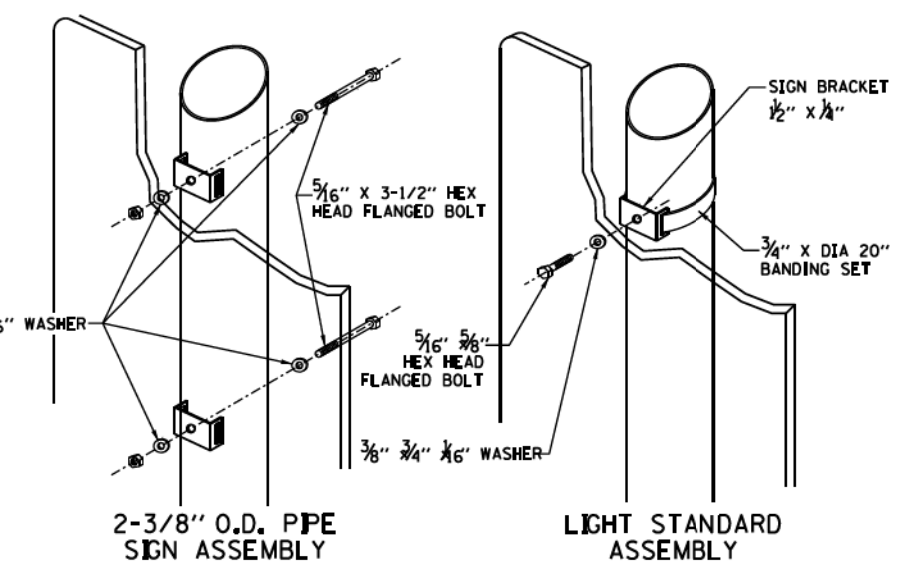
**FLAG MOUNTED SIGN INSTALLATION DETAIL**  
NOT TO SCALE



**NOTE:**

2" SPACING MAY BE REDUCED IF REQUIRED TO MAINTAIN MIN. 7'-0" CLEARANCE TO BASE OF SIGN.

**CENTER MOUNTED SIGN INSTALLATION**  
NOT TO SCALE



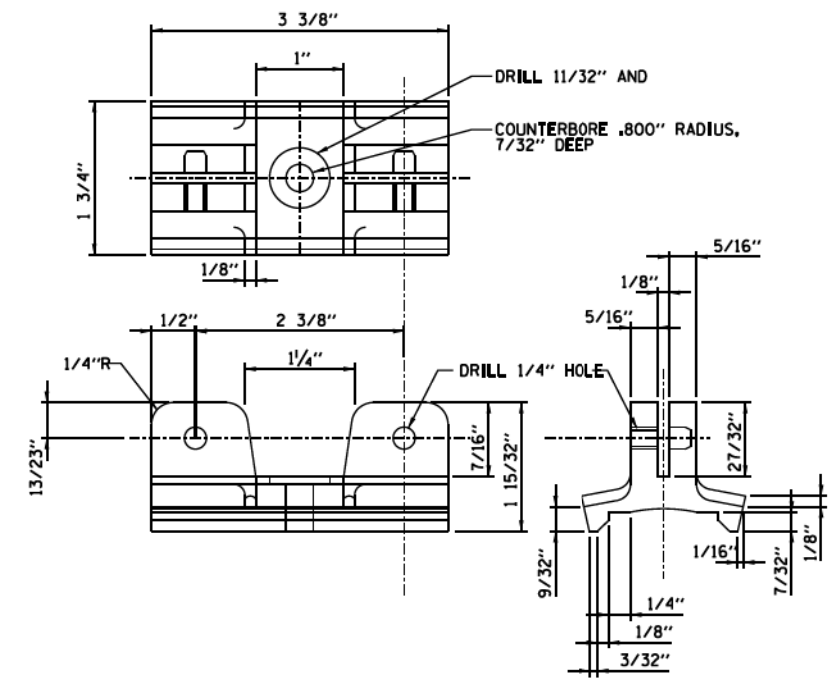
**NOTE:**

SIGN INSTALLATION STARTS AT 10'-6". PROVIDE MINIMUM 7'-0" CLEARANCE BETWEEN GROUND AND BOTTOM OF SIGN. RAISE INITIAL INSTALLATION HEIGHT IF REQ'D TO MAINTAIN 7' CLEAR.

**REQUIREMENT**

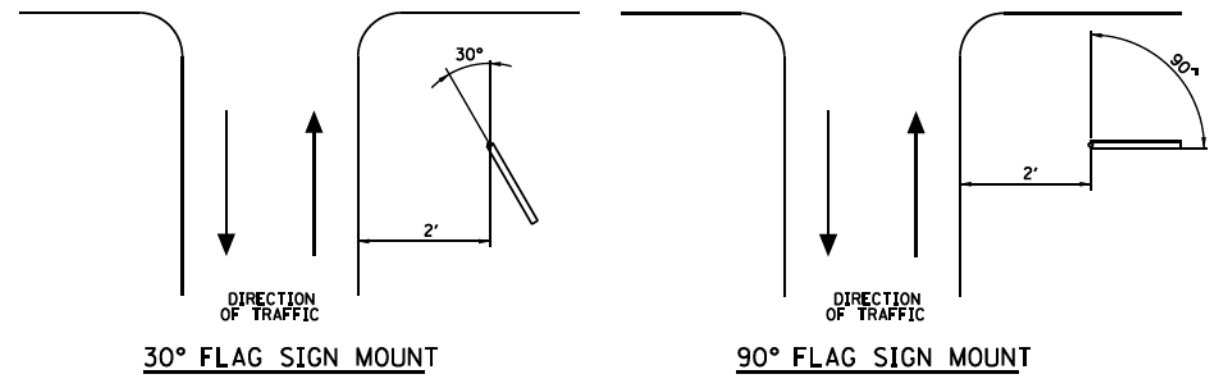
- 2 BANDS PER SIGN UNDER 6'
- 3 BANDS PER SIGN OVER 6'

**CENTER MOUNTED SIGN ASSEMBLY**  
NOT TO SCALE



SIGN MOUNTING MATERIAL: ALUMINUM-ZINC ALLOY TENZALLOY

**SIGN MOUNTING BRACKET DETAIL**  
NOT TO SCALE (VERSION 2A)



**SIGN MOUNTING DETAILS**  
NOT TO SCALE

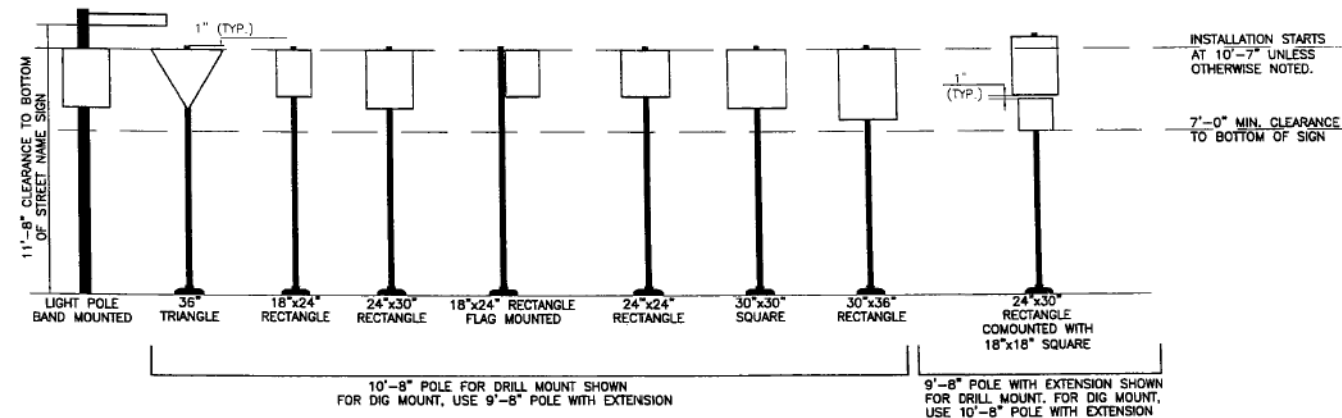
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PLOT DATE = 7/30/2018	DATE - 7-30-2018	REVISED -

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

<b>SIGNING DETAILS</b>			
SCALE: NONE	SHEET 2 OF 3 SHEETS	STA.	TO STA.

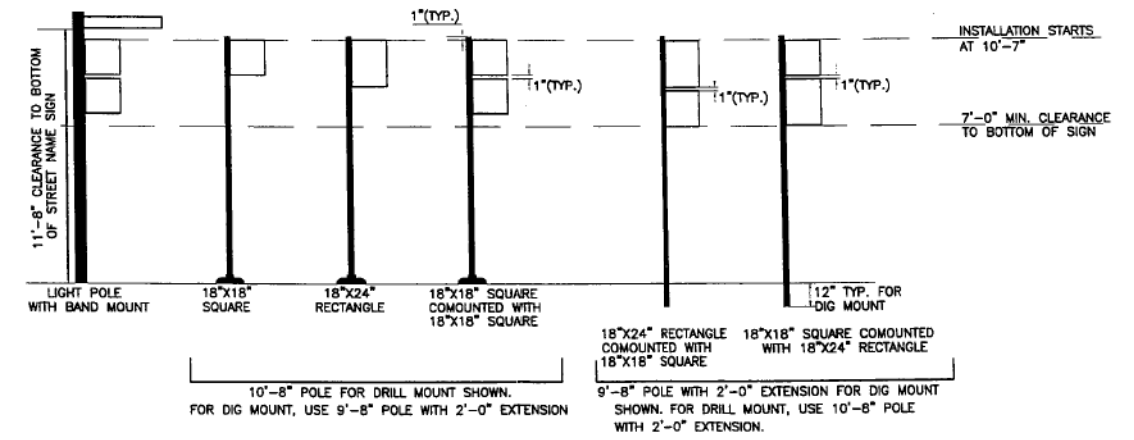
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90/94/290	2014-005R&B	COOK	888	339
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

**REGULATORY TRAFFIC SIGNS  
(CHICAGO STYLE)**



TYPICAL LAYOUT  
NOT TO SCALE

**REGULATORY PARKING SIGNS  
(CHICAGO STYLE)**



TYPICAL LAYOUT  
NOT TO SCALE

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PLOT SCALE = 20.0000' / in.
PLOT DATE = 7/30/2018

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DRAWN - BAW	REVISED -
CHECKED - JMG	REVISED -
DATE - 7-30-2018	REVISED -

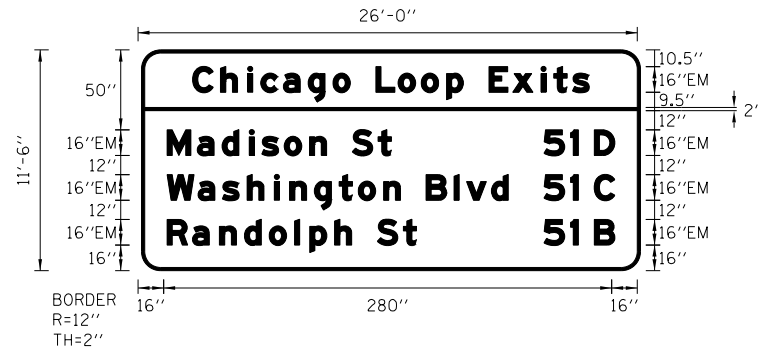
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SIGNING DETAILS**

SCALE: NONE    SHEET 3 OF 3 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	340
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	

SIGN DETAIL  
1:100



Panel Style: guide\_exp\_advance\_a.ssi  
M.U.T.C.D.: 2009 Edition

Panel Style: guide\_exp\_advance\_a.ssi  
Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EN-10-OH
WIDTH x HGHT.	26'-0" x 11'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: Green
LEGEND/BORDER	TYPE: ZZ COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)																								LENGTH	SERIES/SIZE
C	h	i	c	a	g	o	L	o	o	p	E	x	i	t	s									EM 2000	
32	49.4	66.4	74.6	88.6	104.2	119.7	130.6	146.6	160.5	174.9	190.7	201.3	217.3	232	249.8	257.8	269.4							248 16/12	
M	a	d	i	s	o	n	S	t																EM 2000	
16	34.9	50.4	67.4	75.2	89.3	105.1	115.7	131.7	148															140.3 16/12	
5	1	D																						EM 2000	
257.1	273.8	283.1																						38.9 16	
W	a	s	h	i	n	g	t	o	n	B	i	v	d											EM 2000	
16	35.4	50.6	66.1	83	92.6	108.2	123.5	135.5	151.4	161.9	177.9	195.4	203.2	218.7										213.3 16/12	
5	1	C																						EM 2000	
257.8	274.4	283.1																						38.2 16	
R	a	n	d	o	l	p	h	S	t															EM 2000	
16	31.8	48.8	64.3	79.8	95.7	105.3	120.8	131.4	147.4	163.7														156 16/12	
5	1	B																						EM 2000	
257.1	273.8	283.1																						38.9 16	

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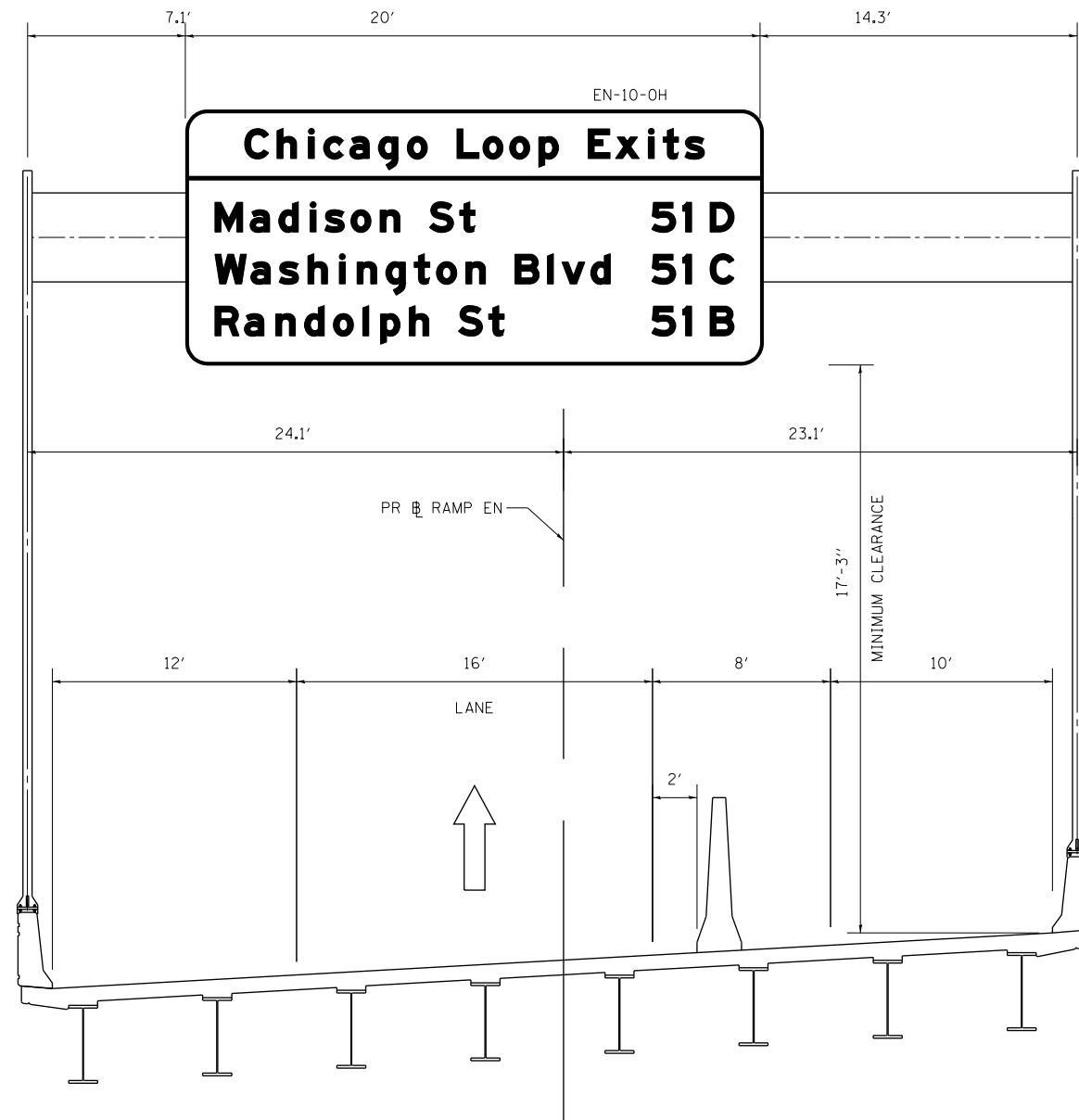
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PLOT DATE = 7/29/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SIGN PANEL DETAILS</b>			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 341
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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**OVERHEAD SIGN STRUCTURE**  
**STA 1609 + 10.65**  
**PR RAMP EN**  
**(LOOKING EAST)**



DI60X79-SHT-Sign-OSS-01.dgn	DESIGNED - MKW	REVISED -
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DRAWN - BMJ	REVISED -
CHECKED - JMG	REVISED -
DATE - 7-30-2018	REVISED -

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

**OVERHEAD SIGN STRUCTURES**  
**SIGN PLACEMENT DETAILS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	342
CONTRACT NO. 60X79			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' = 4,000 p.s.i. (Superstructure Concrete)  
fy = 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.

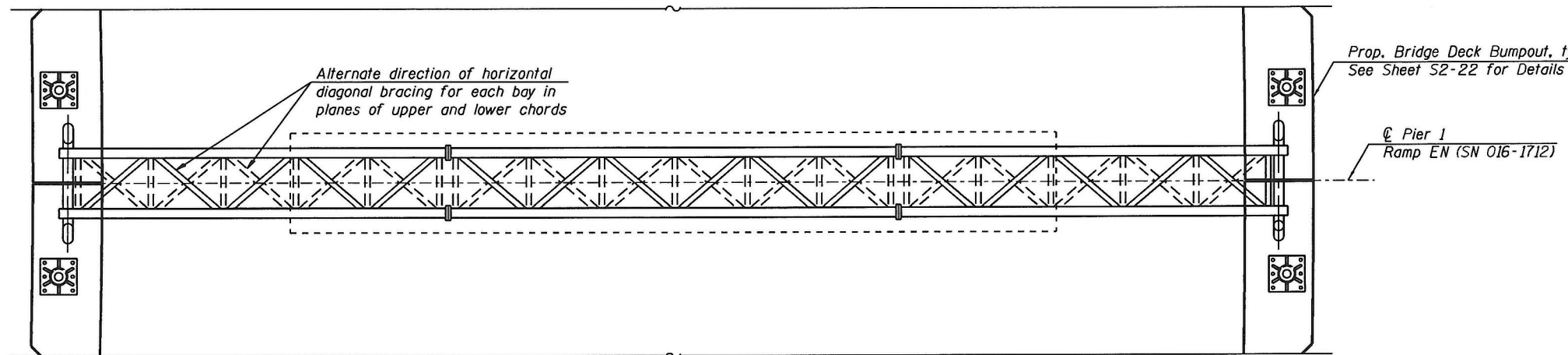
FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved 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.

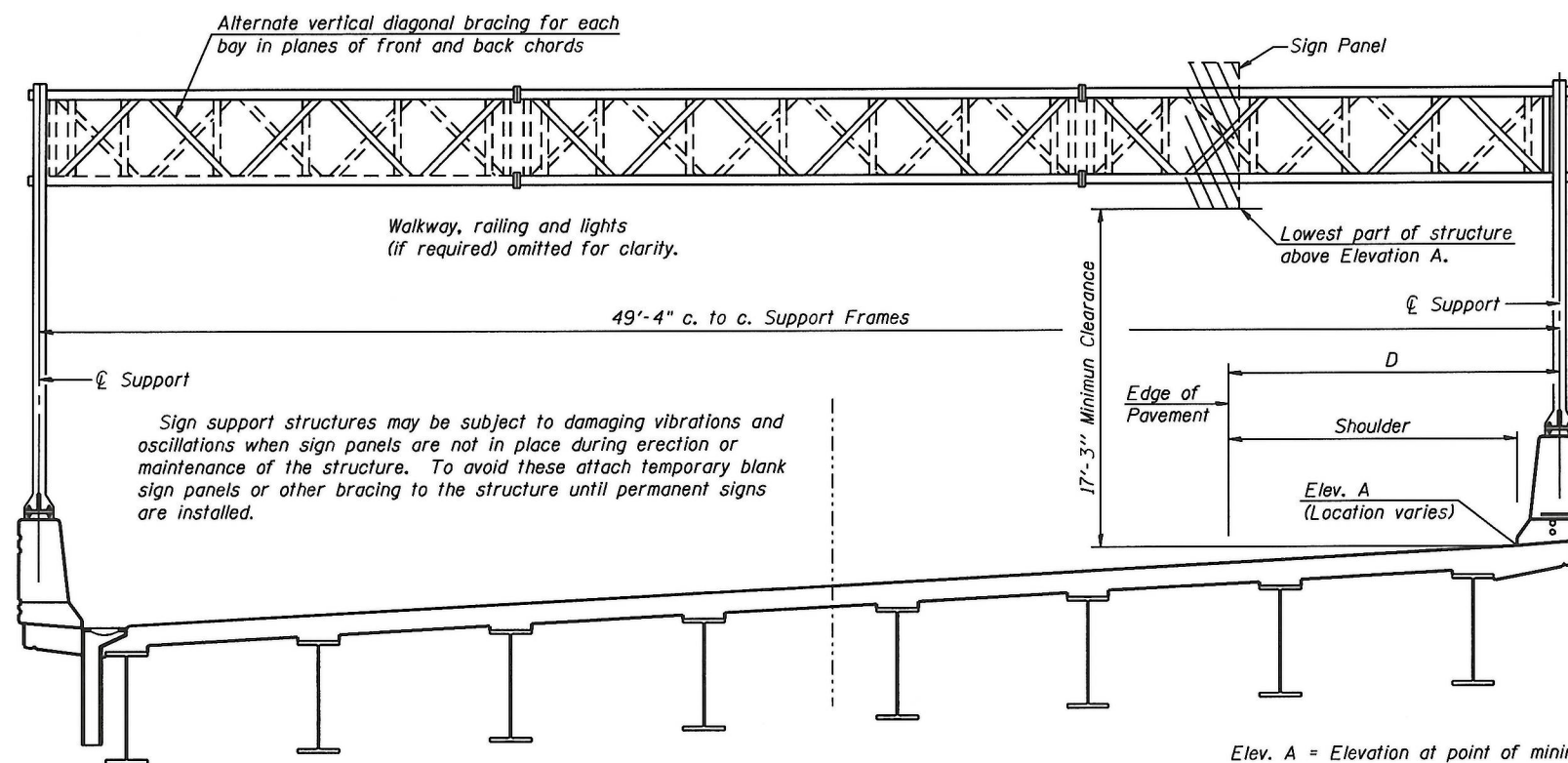
GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

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

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

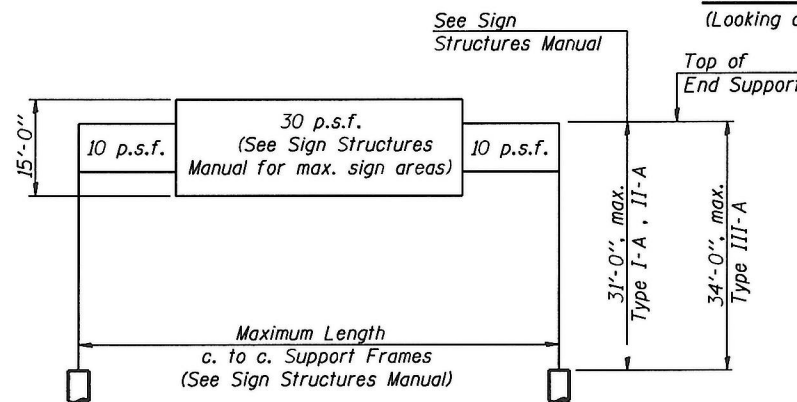


**TYPICAL PLAN**  
(Interior diagonals not shown)



**TYPICAL ELEVATION**  
(Looking at Face of Signs)\*\*)

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



**DESIGN WIND LOADING DIAGRAM**

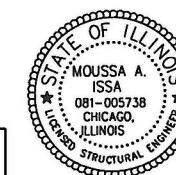
Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

WALKWAY: Walkway grating, walkway brackets, handrails, lighting and associated components shown in these plans on the traffic side of the sign structure/sign panel will not be installed with Contract 60X93. The truss grating and maintenance walkway behind the sign panel will be included with this pay item.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
150161290R029.9	Sta. 1609+10.65 (Ramp EN)	I-A	49'-4"	602.60	11'-8"	11'-6"	299

\* 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.

\*\* Looking upstation



Signed Moussa A. Issa  
Dr. Moussa A. Issa, S.E. Il. Lic. No. 081-005738  
Expires 11-30-2018

Date 07/30/18 For Sheets SS-01 Thru SS-08

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE SPAN TYPE I-A	Foot	49'-4"

FILE NAME: p:\1617479-PWINT.aecom\online\locat\AECOM\_D502\_NA\Documents\01\_Americas\Transportation\60269938\_CirclePhase\_II\000\_CAD\008\_Structural\Structure\_016-1712\Sign\_Structures\0161712-60X79-SS01-SignStruct



USER NAME = ahmad.issa	DESIGNED - JMG	REVISIONS -
PLOT SCALE = N.T.S	CHECKED - JJS, KJD	REVISIONS -
PLOT DATE = 7/30/2018	DRAWN - JJS, KJD	REVISIONS -
	CHECKED - MI, MAI	REVISIONS -

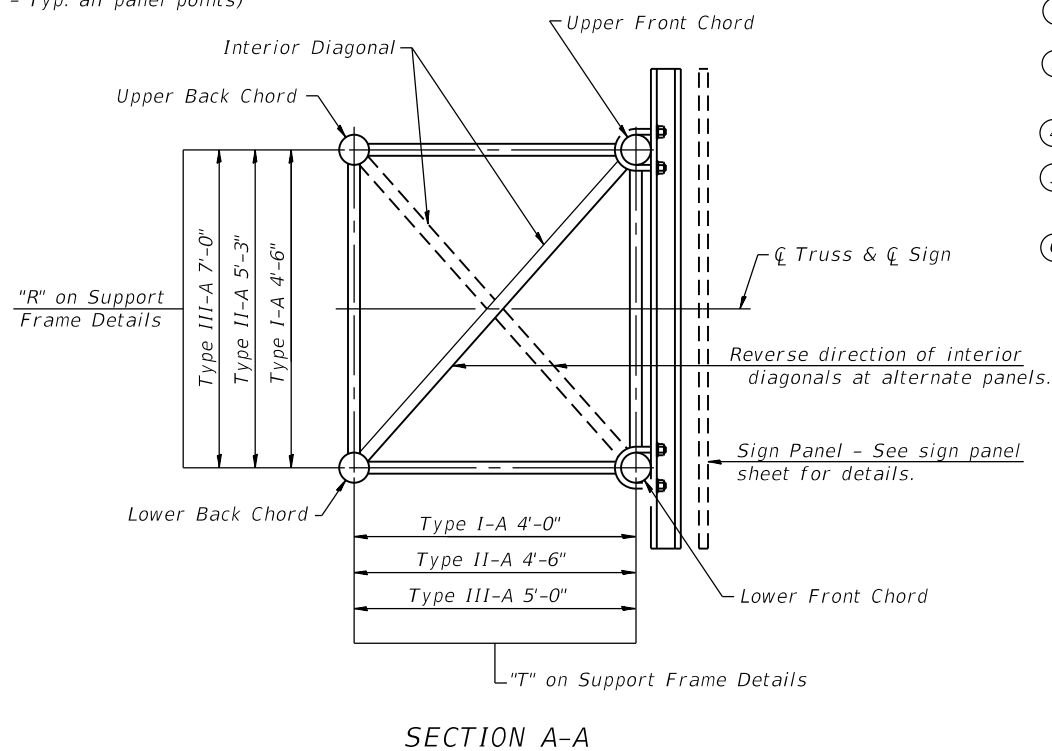
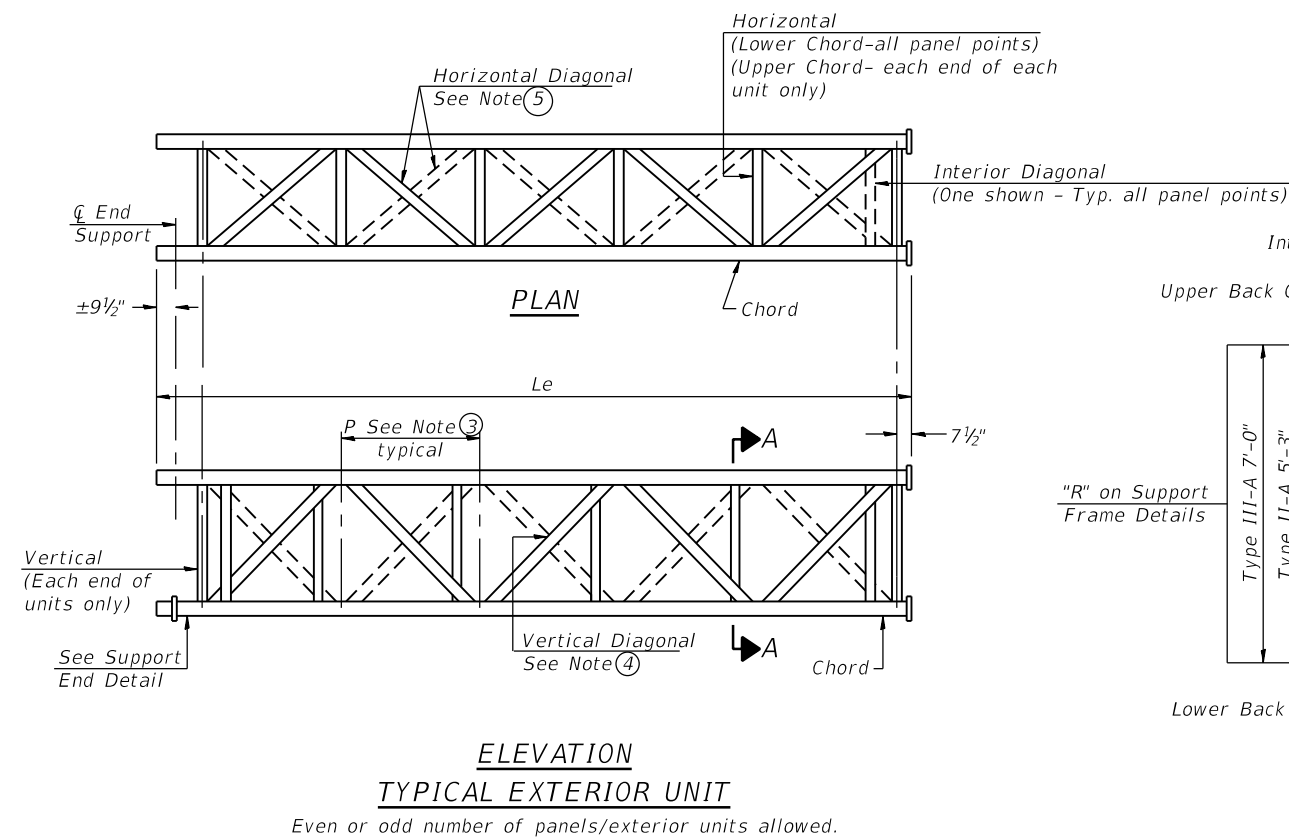
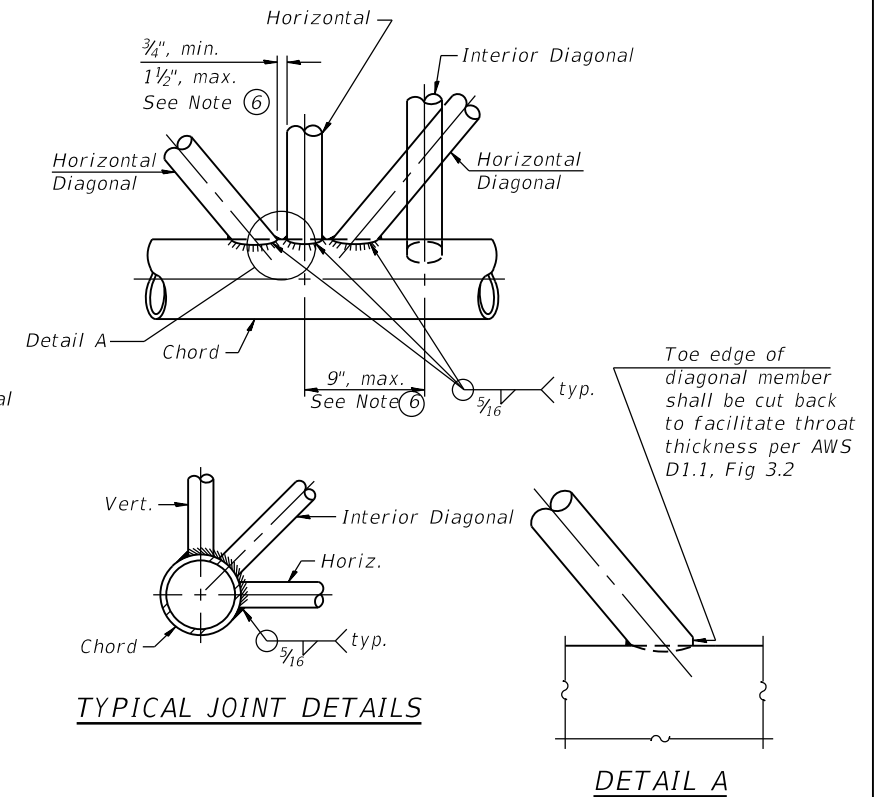
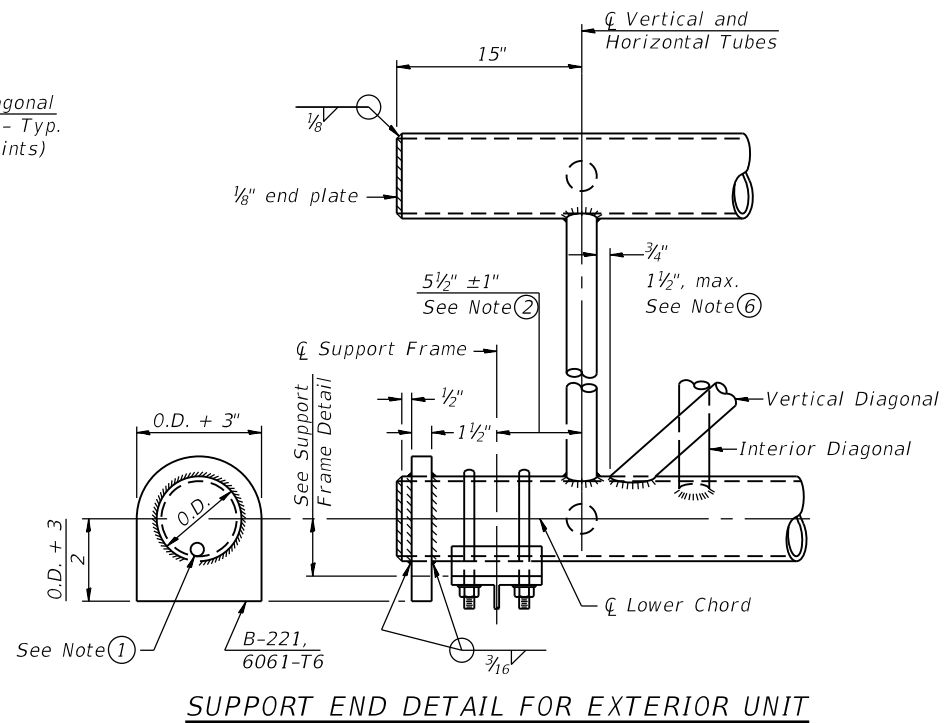
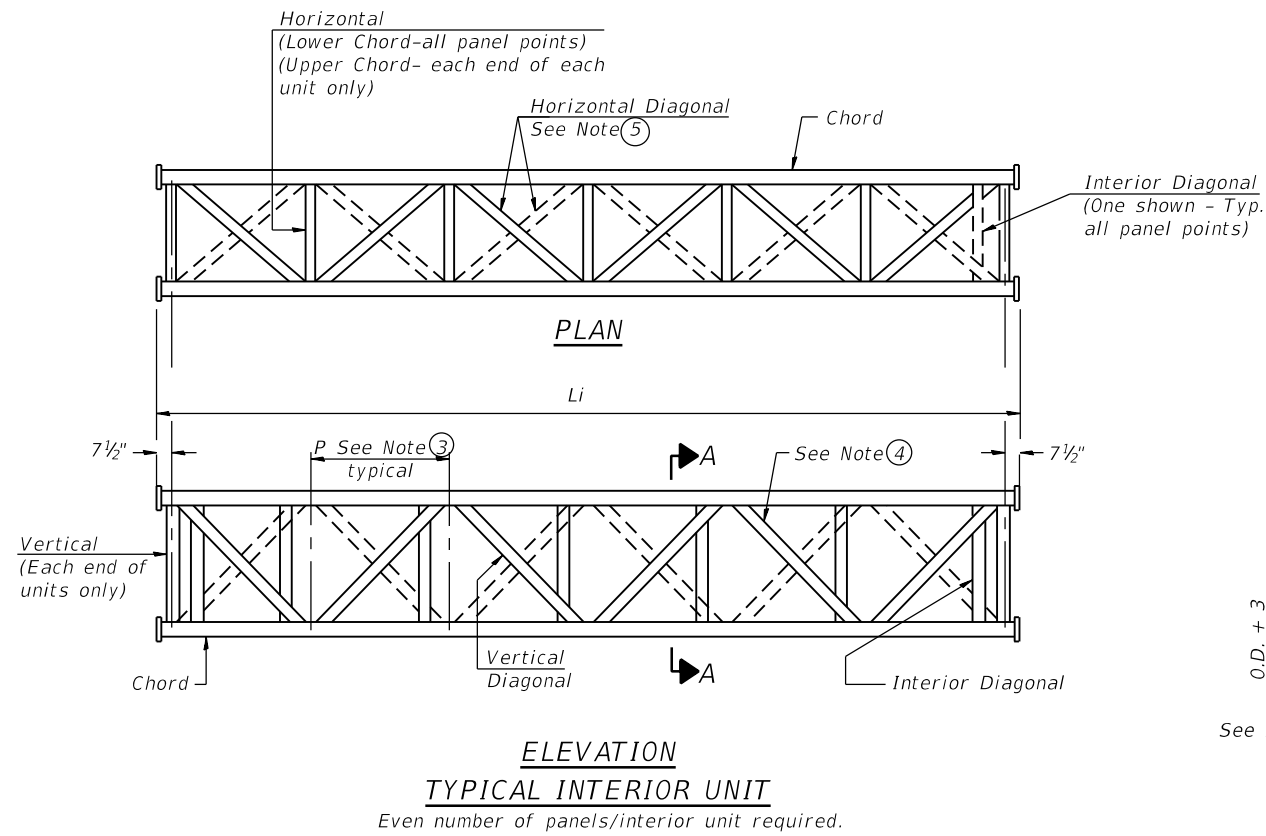
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - GENERAL PLAN & ELEVATION  
STRUCTURE NO. 016-1712

SHEET NO. SS-01 OF SS-08 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 343
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

FILE NAME: D:\161749-PWINT-aecom\line\local\AECOM\_DS02\_NAYDocuments\01\_Americas\Transportation\60269938\_CirclePhase\_I\000\_CAD\008\_Structural\Structure\_016-1712\Sign\_Structures\0161712-60X79-SS02-SignStructDet1



- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" Ø drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by ±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 or 4'-0" and 5'-6" for Types II-A and III-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.

05-A-2

2-17-2017

**HBM**  
ENGINEERING GROUP, LLC

USER NAME =	ahmad,issa	DESIGNED -	JMG	REVISED -	
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PLOT SCALE =	N.T.S	DRAWN -	JJS, KJD	REVISED -	
PLOT DATE =	7/30/2018	CHECKED -	MI, MAI	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS I  
STRUCTURE NO. 016-1712**

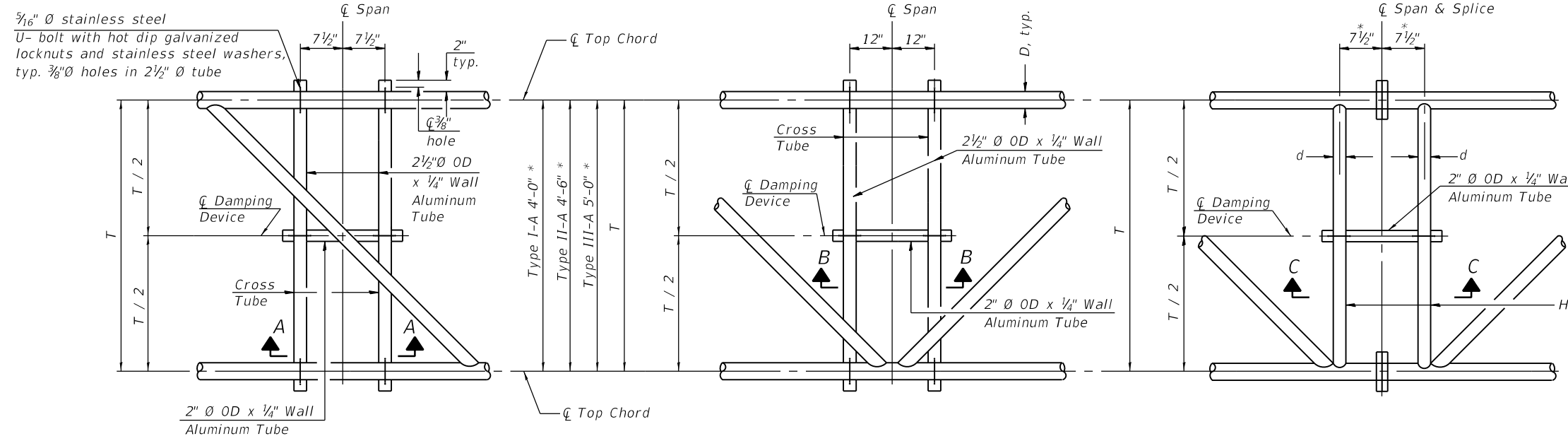
SHEET NO. SS-02 OF SS-08 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	344
CONTRACT NO. 60X79				
ILLINOIS		FED. AID PROJECT		





FILE NAME: D:\161712\Sign Structures\0161712-60X79-SS04-SignStructDamp  
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\* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

**PLAN DETAIL "A"**  
 $\varnothing$  Span between Panel Points

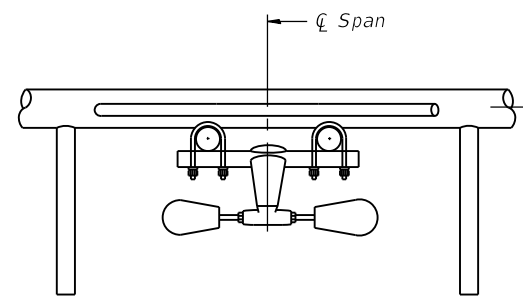
**PLAN DETAIL "B"**  
 $\varnothing$  Span at Panel Point

**PLAN DETAIL "C"**  
 $\varnothing$  Span at  $\varnothing$  Chord Splice

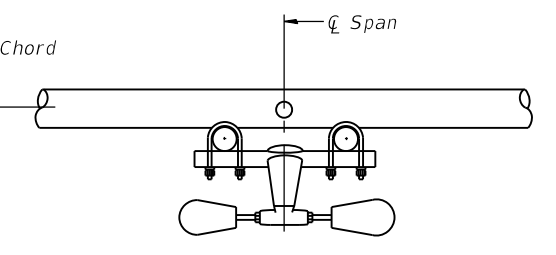
**NOTES**

Damper: One damper per truss. (31 lbs. minimum Stockbridge-Type Aluminum - 29" minimum between ends of weights) Cost included in Overhead Sign Structure...

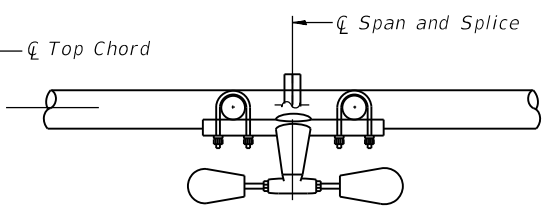
Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



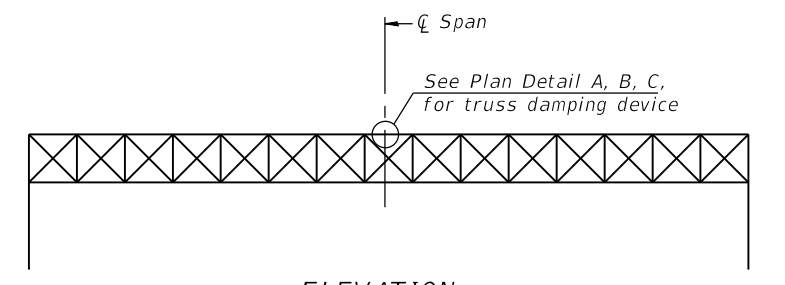
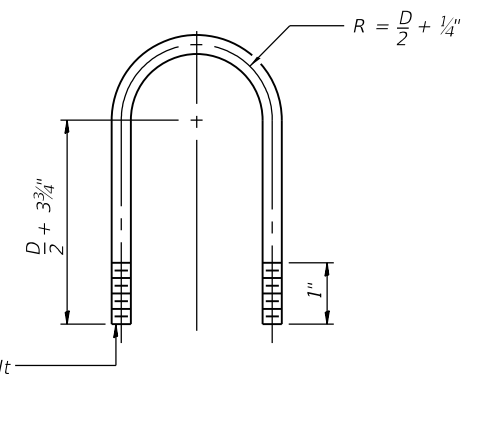
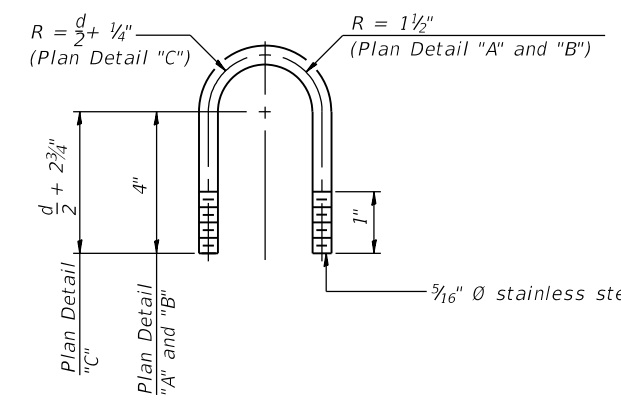
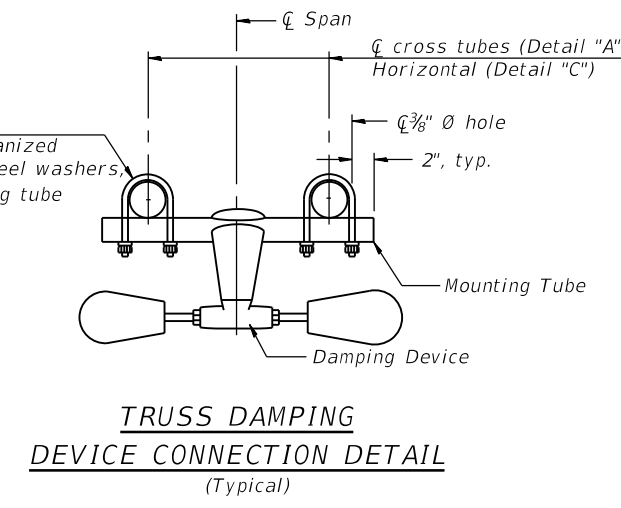
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**ELEVATION**  
 Aluminum Overhead Sign Truss

05-A-D

2-17-2017



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PLOT DATE =	7/30/2018	CHECKED -	MI, MAI	REVISED -	

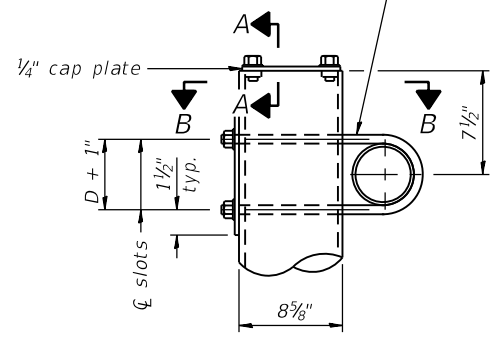
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - DAMPING DEVICE  
 STRUCTURE NO. 016-1712  
 SHEET NO. SS-04 OF SS-08 SHEETS

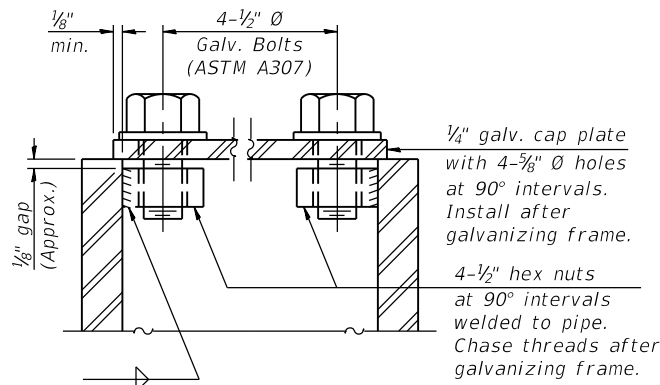
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	346
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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

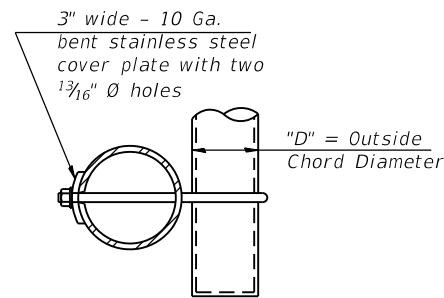


**DETAIL A**



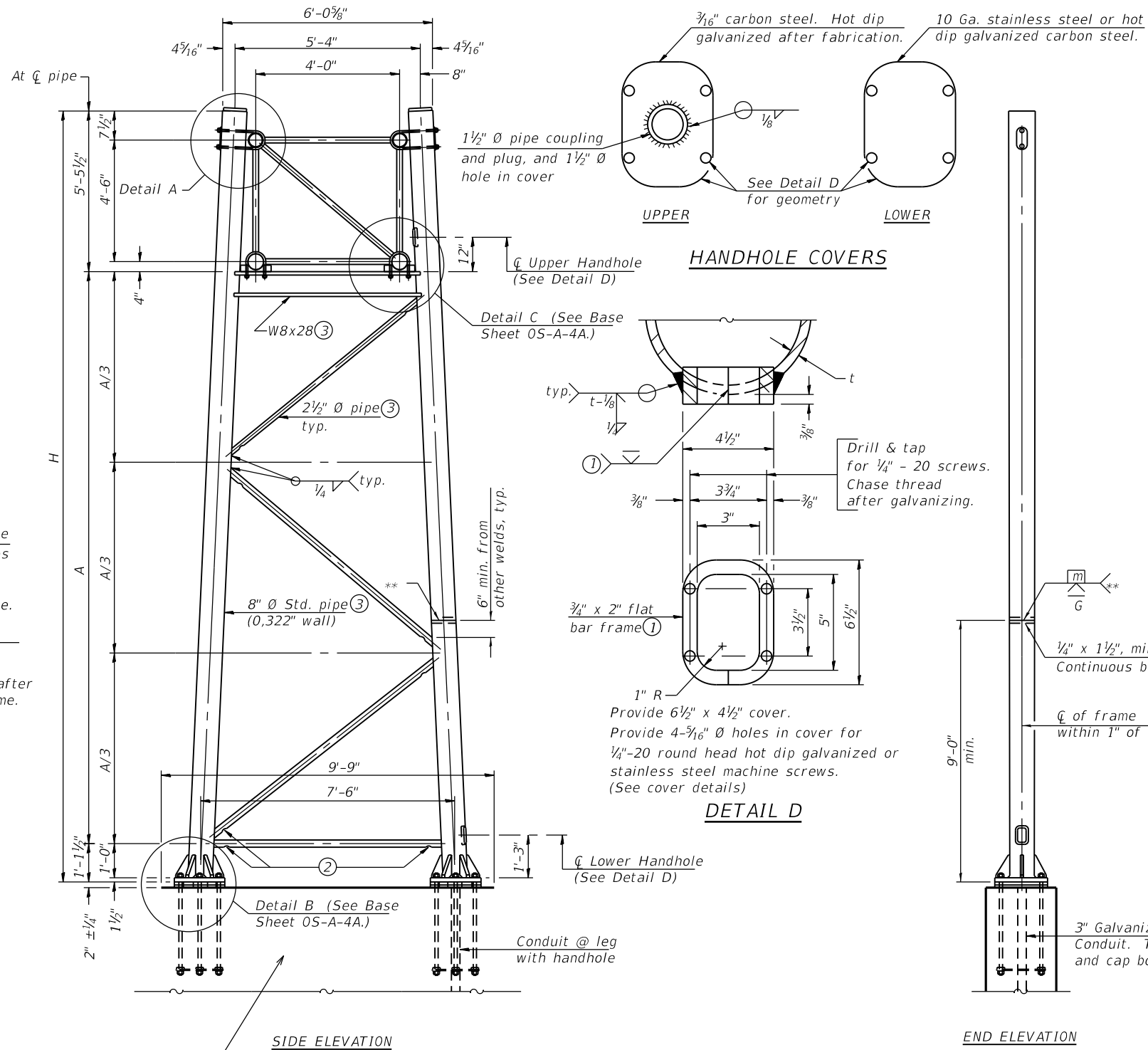
**SECTION A-A**

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

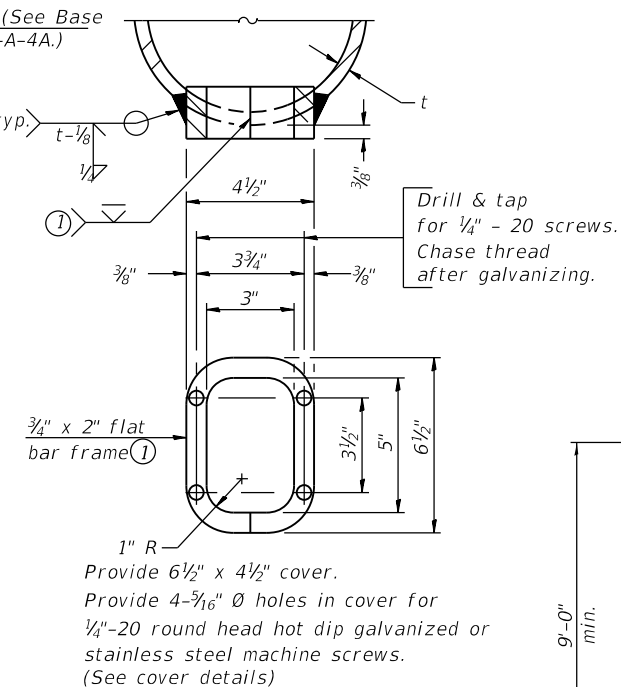


**SECTION B-B**

For Anchorage to Bridge Parapet Details, see Ramp EN (S.N. 016-1712) Structural Plans



**HANDHOLE COVERS**



**DETAIL D**

Support Design Loads: See Base Sheet 05-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 500µ in 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 05-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.

**8" Ø 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.

Structure Number	Station	Support		H ⑦	A
		Left	Right		
1S0161290R029.9	Sta. 1609+10.65 (BL Ramp EN)	X	X	27'-9 9/16"	21'-2 5/16"
				25'-2 1/2"	18'-7 1/2"



USER NAME =	ahmad,issa	DESIGNED -	JMG	REVISED -	
		CHECKED -	JJS, KJD	REVISED -	
PLOT SCALE =	N.T.S	DRAWN -	JJS, KJD	REVISED -	
PLOT DATE =	7/30/2018	CHECKED -	MI, MAI	REVISED -	

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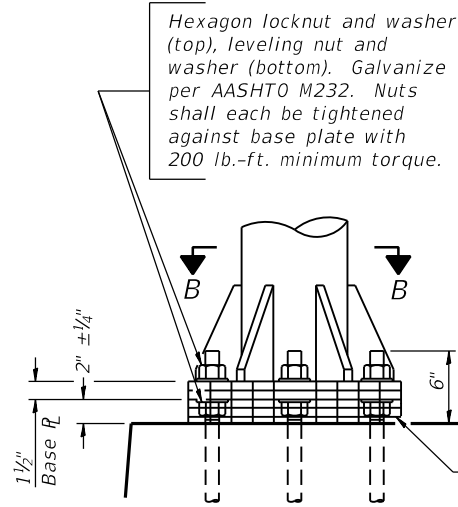
**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME  
STRUCTURE NO. 016-1712**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

SHEET NO. SS-05 OF SS-08 SHEETS



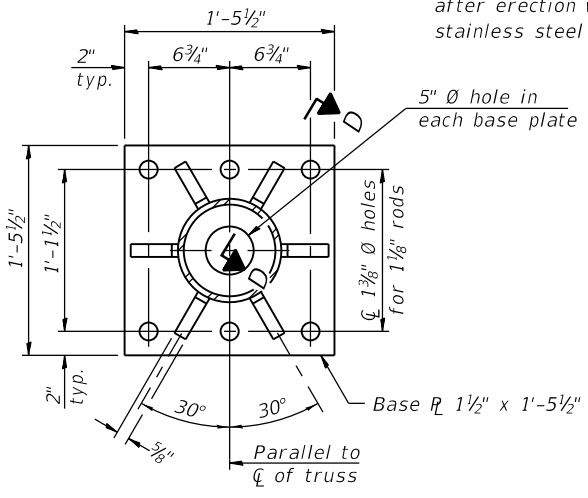
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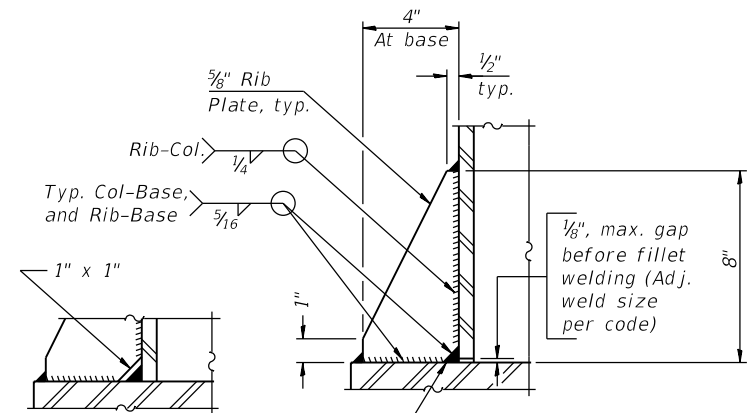
**DETAIL B**

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.



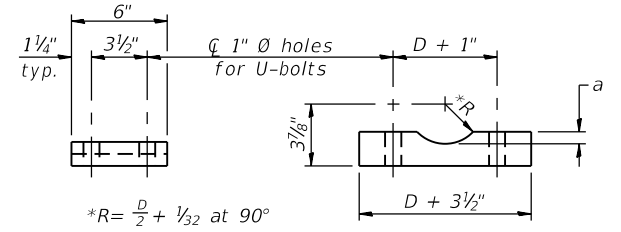
**SECTION B-B**



**SECTION D-D**

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

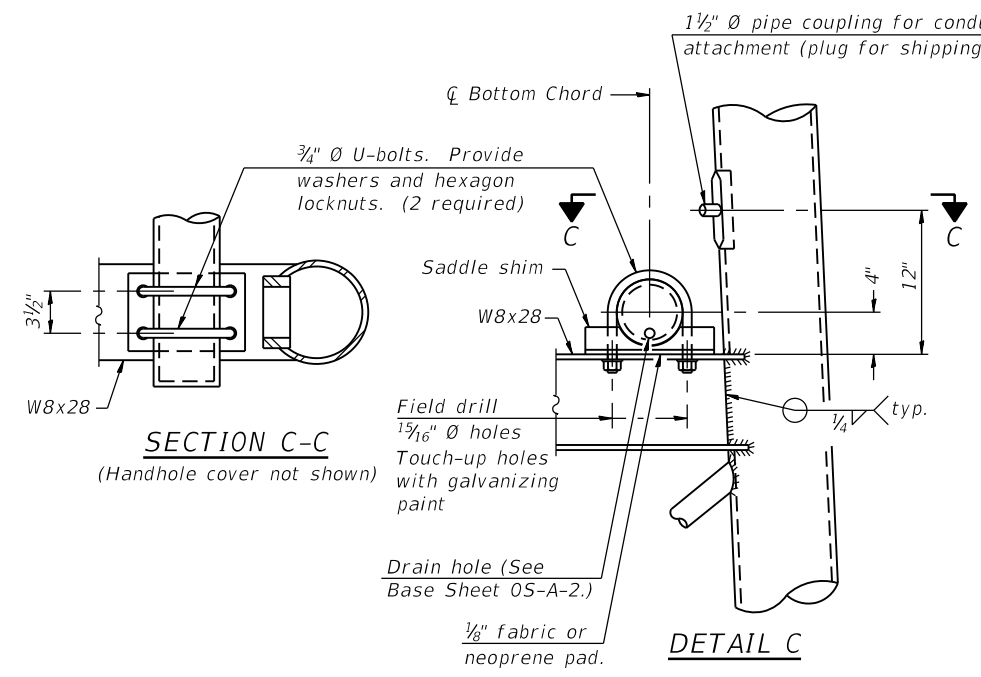
No snip req'd. at rib inside corner if placed before col. to base plate welding.\*\*



\*R = D/2 + 1/32 at 90°  
D = Outside Diameter of Chord.

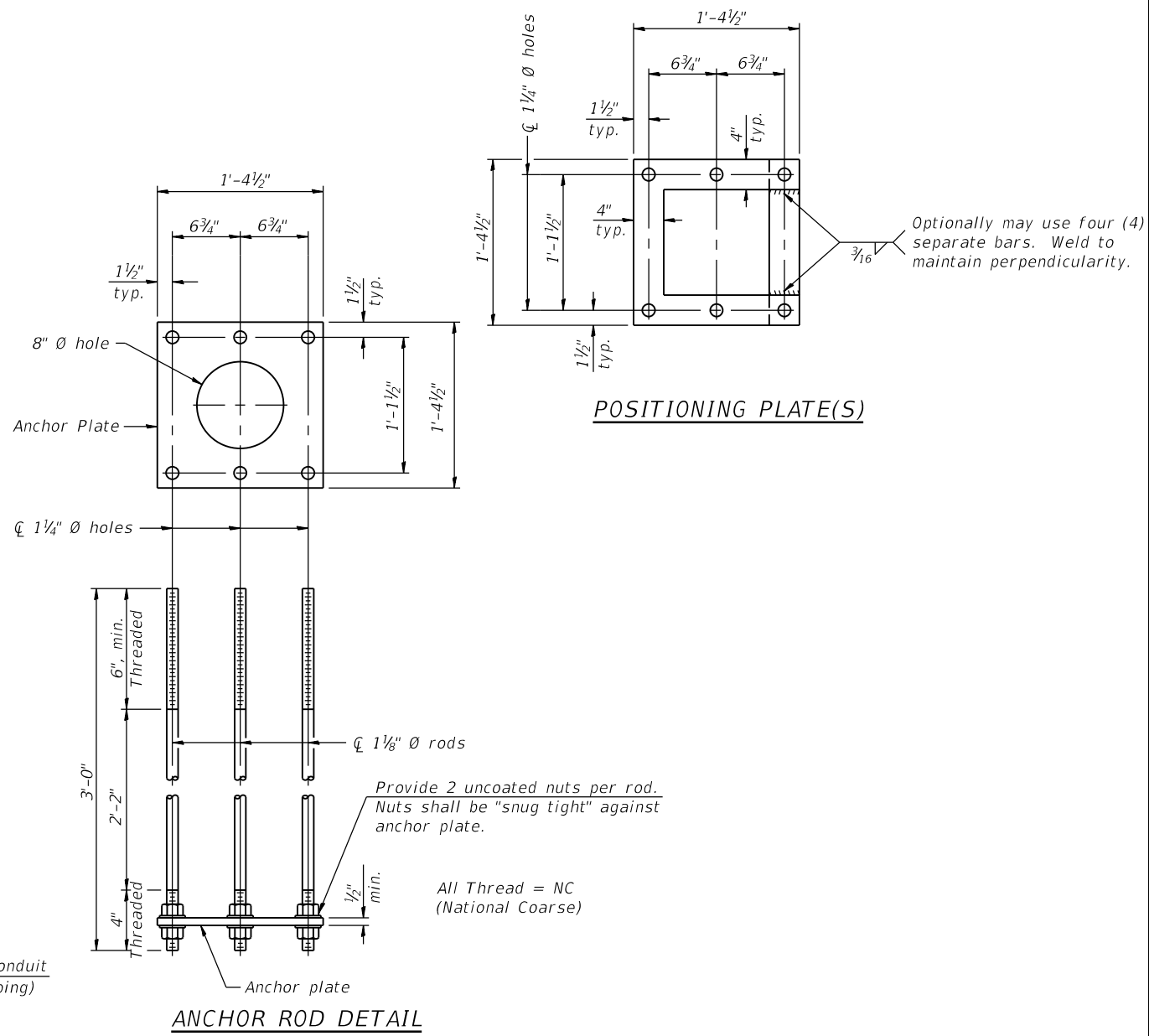
**SADDLE SHIM DETAIL**  
ASTM B26 Alloy 356-F  
or  
ASTM B209 Alloy 6061-T651  
(4 required per sign truss)

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



**SECTION C-C**  
(Handhole cover not shown)

**DETAIL C**



**ANCHOR ROD DETAIL**

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

**POSITIONING PLATE(S)**



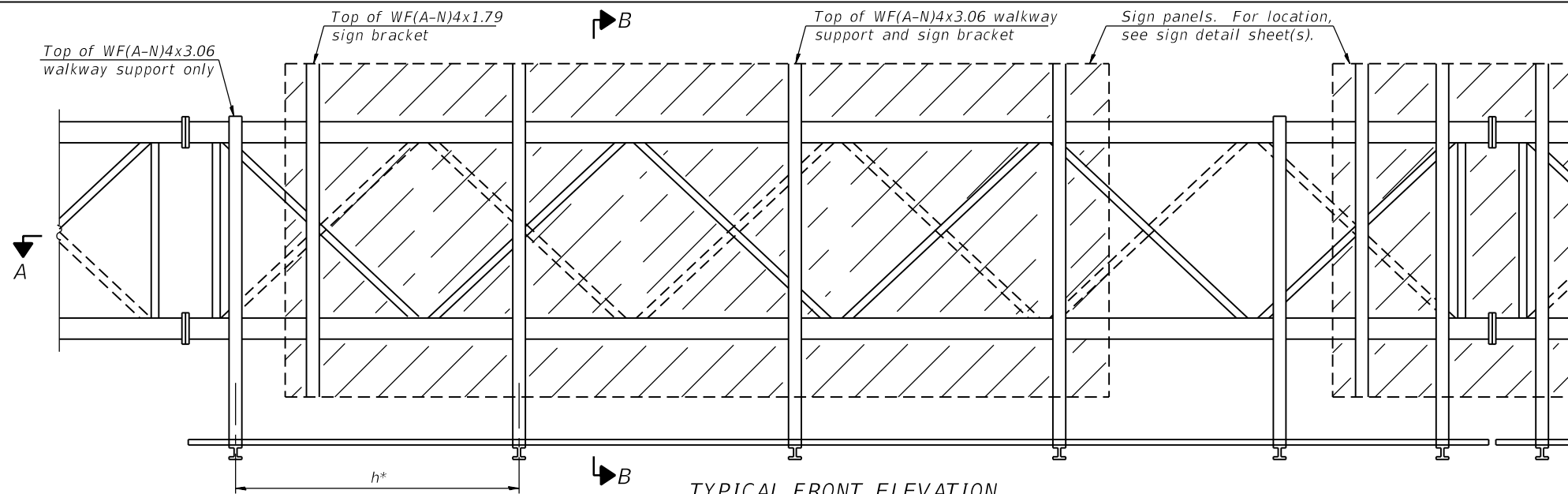
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PLOT DATE =	7/30/2018	DRAWN -	JJS, KJD	REVISED -	
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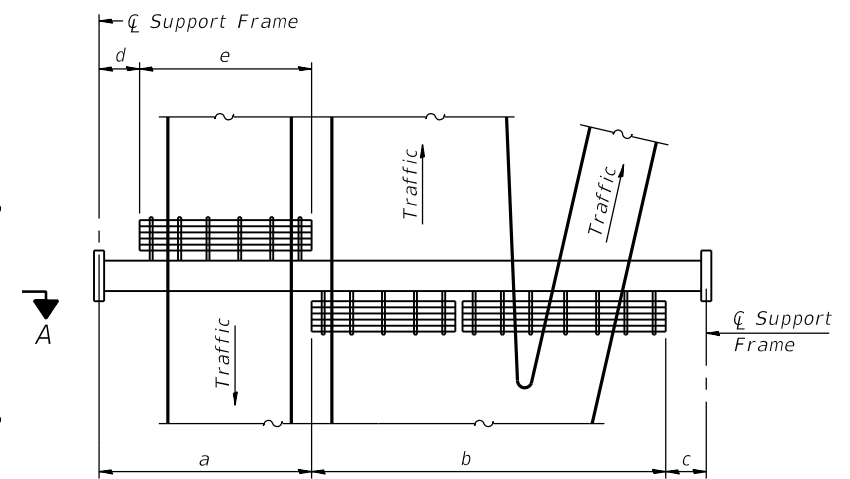
OVERHEAD SIGN STRUCTURES - SUPPORT FRAME DETAILS  
STRUCTURE NO. 016-1712

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	348
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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**TYPICAL FRONT ELEVATION**  
With lights and handrail omitted for clarity.  
For Section B-B, see Base Sheet 05-A-10.



**PLAN WALKWAY AND HANDRAIL SKETCH**  
(Road plan beneath truss varies)

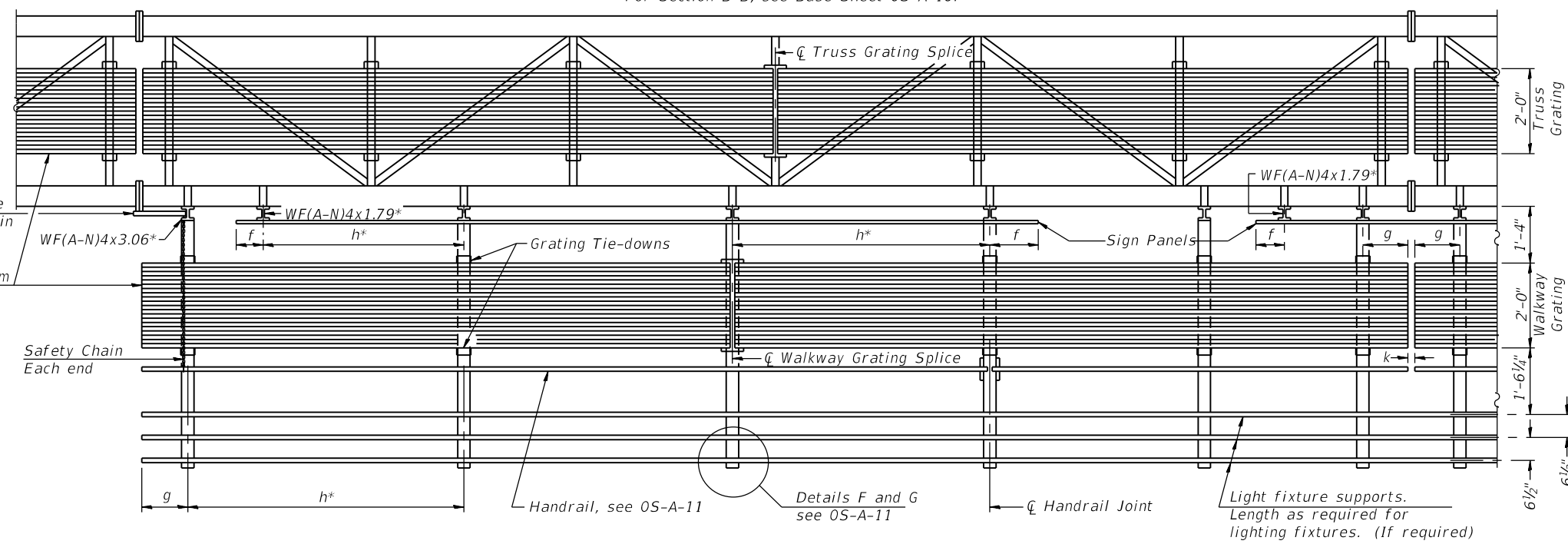
**BRACKET TABLE**

WF(A-N)4x1.79 or WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6		
Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

Notes:  
\* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:  
 $f = 12"$  maximum,  $4"$  minimum (End of sign to  $\phi$  of nearest bracket)  
 $g = 12"$  maximum,  $4"$  minimum (End of walkway grating to  $\phi$  of nearest support bracket)  
 $h = 6'-0"$  maximum ( $\phi$  to  $\phi$  sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)  
 $k = 2"$  maximum gap between adjacent walkway grating sections and handrail ends

\*\* If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet 05-A-11.  
For Details T and W, Section B-B and Grating Splice Details see Base Sheet 05-A-10.  
For Handrail Details see Base Sheet 05-A-11.

\*\* Alternate angle for safety chain attachment  
Standard Aluminum Grating, see Details T and W  
Safety Chain Each end



**SECTION A-A**

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.  
Place all sign and walkway brackets as close to panel points as practical.  
Handrail joints, grating, and light support splices placed as needed.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
1S0161290R029.9	Sta. 1609+10.65 (BL Ramp EN)	-	-	-	-	-	-

Truss grating to facilitate inspection shall run full length (center to center of support frames)  $\pm 12"$  on overhead trusses.  
Cost of truss grating is included in "Overhead Sign Structure".

Walkway and Truss Grating width dimensions are nominal and may vary  $\pm 1/2"$  based on available standard widths.

05-A-9

2-17-2017



USER NAME = ahmad,issa	DESIGNED - JMG	REVISED -
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	CHECKED - MI, MAI	REVISED -

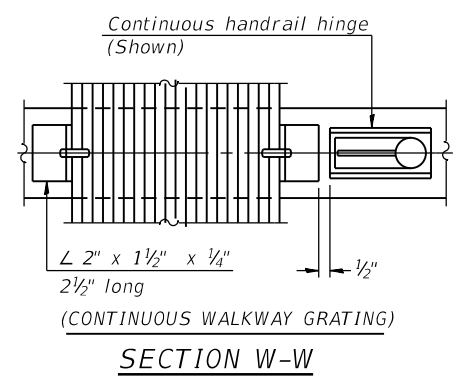
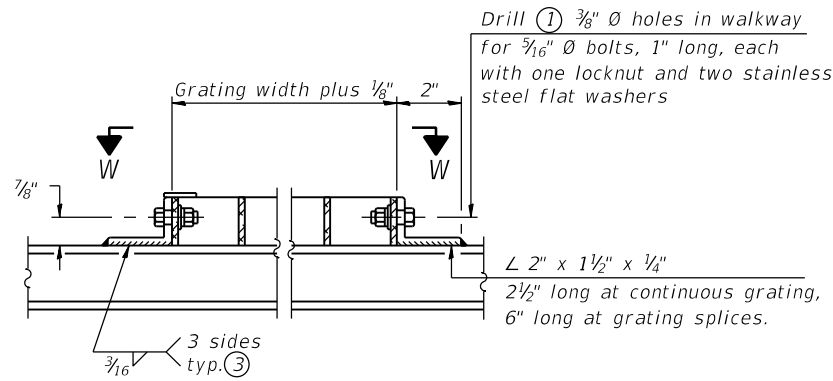
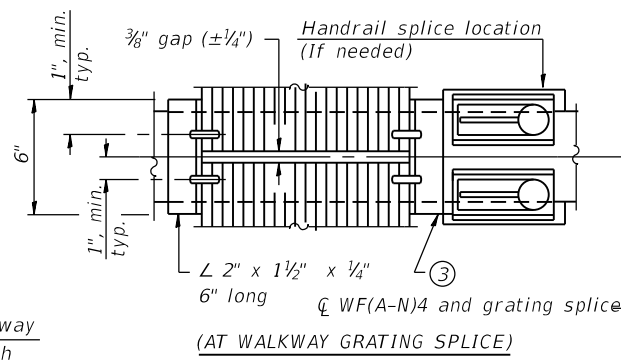
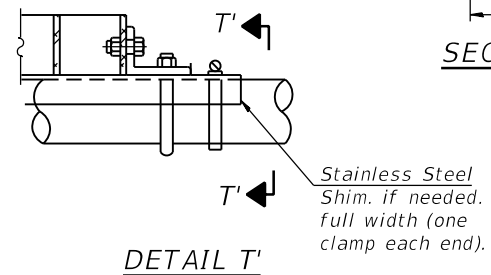
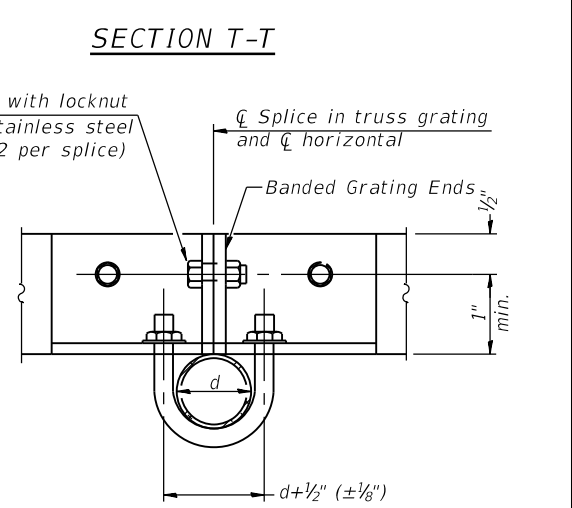
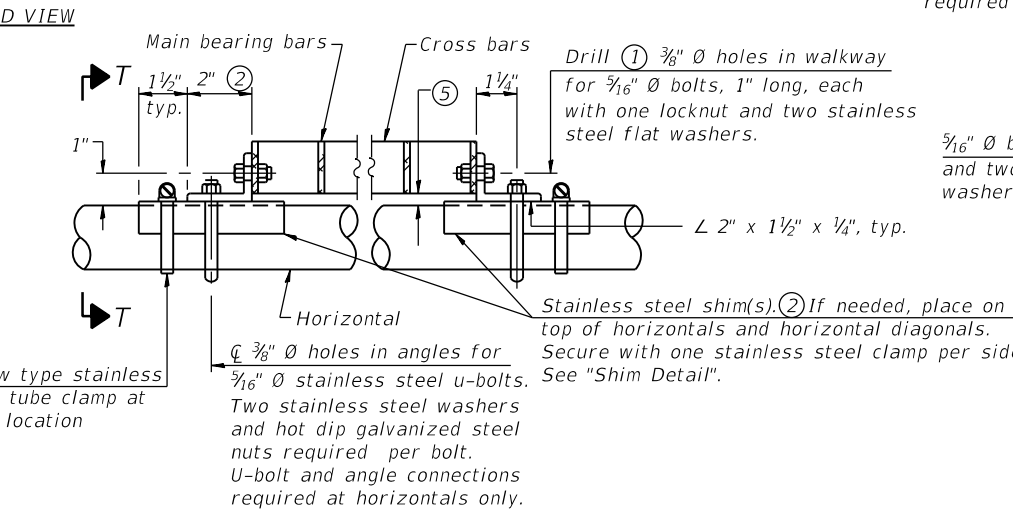
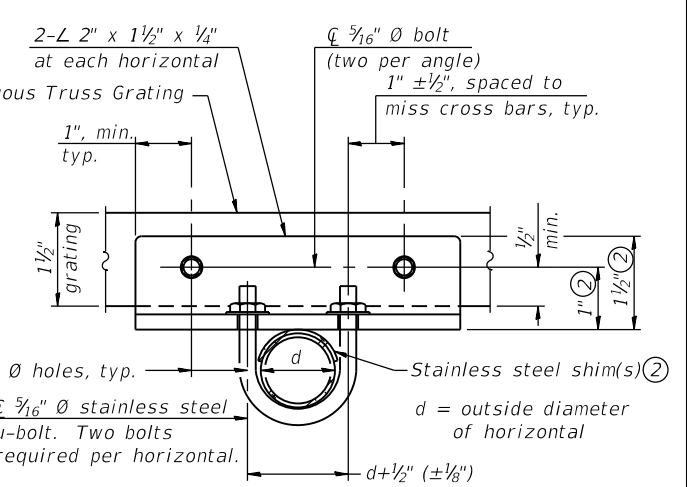
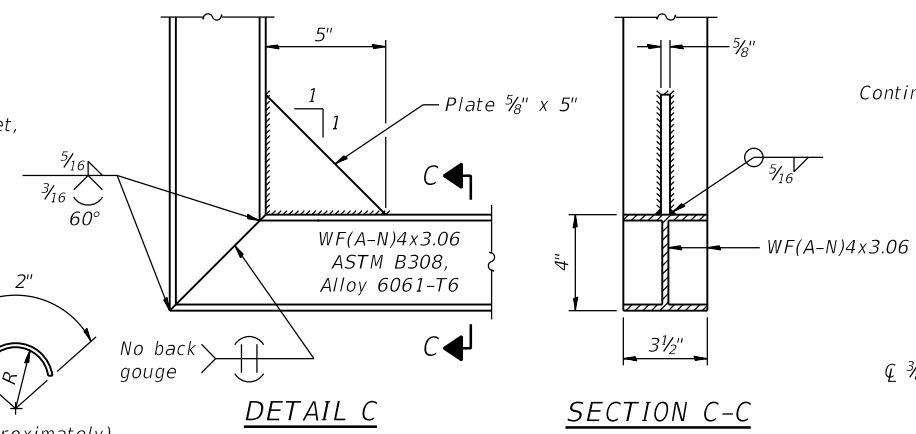
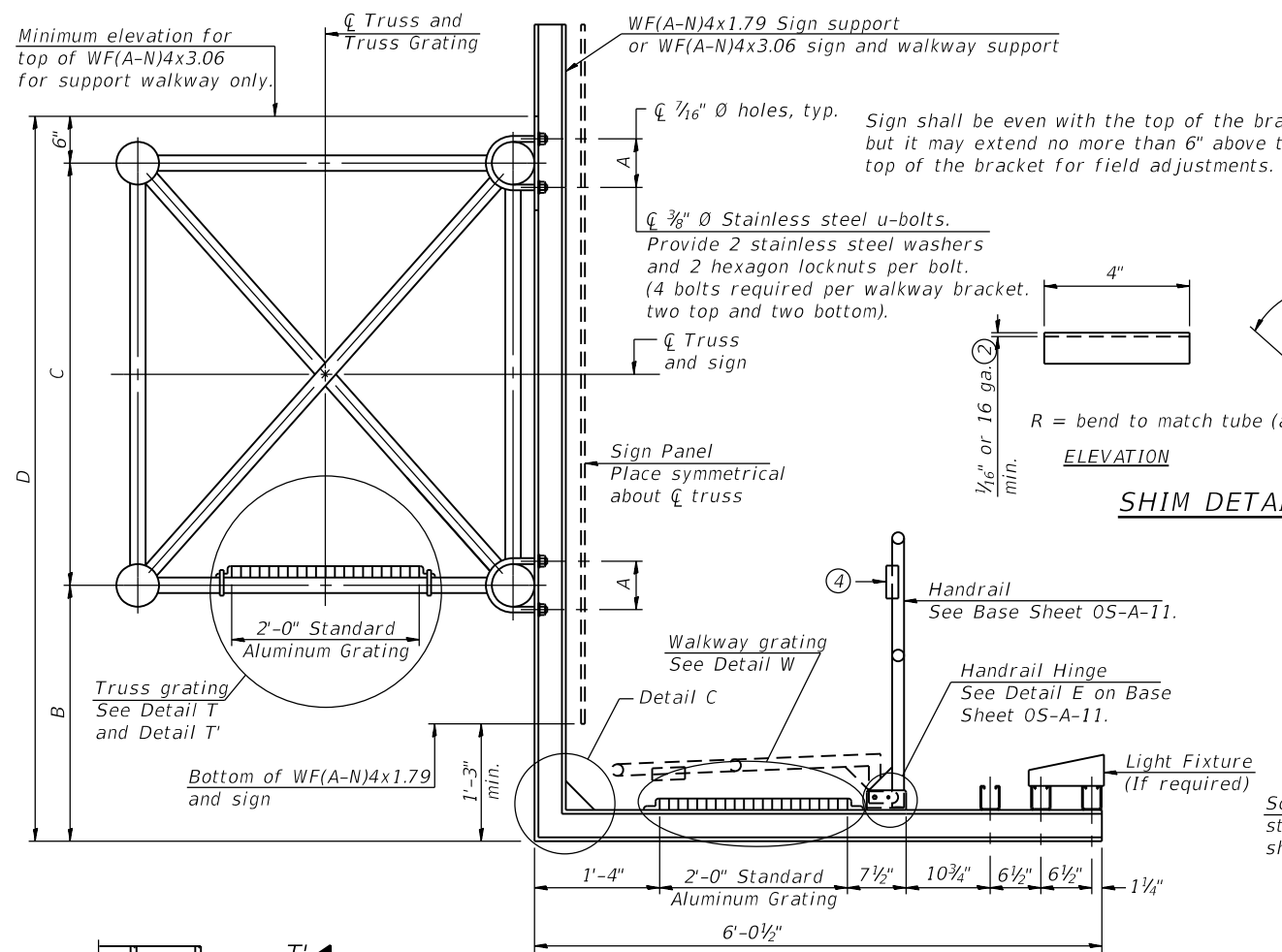
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES - ALUMINUM WALKWAY DETAILS I  
STRUCTURE NO. 016-1712

SHEET NO. SS-07 OF SS-08 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 349
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	

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**SPECIFICATIONS FOR STANDARD ALUMINUM GRATING**

Main Bearing Bars shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.  
 Cross bars shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.  
**OR**  
 Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:  
 Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.<sup>3</sup> per bar, a depth of 1 1/2", spaced on 1 3/16" centers.  
 Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	⑥ B	C	⑥ D
1S0161290R029.9	Sta. 1609+10.65 (BL Ramp EN)	6"	3'-3"	4'-6"	8'-3"

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- ④ R 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- ⑥ Based on actual height of tallest sign given on OS-A-1.

2-17-2017

USER NAME =	ahmad,issa	DESIGNED -	JMG	REVISED -	
PLOT SCALE =	N.T.S	CHECKED -	JJS, KJD	REVISED -	
PLOT DATE =	7/30/2018	DRAWN -	JJS, KJD	REVISED -	
		CHECKED -	MI, MAI	REVISED -	

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	<b>LIGHT TOWER: LED LUMINAIRES</b> NUMBER INDICATES TOWER TYPE
	TYPE      TOWER HEIGHT 13      -      130 FEET 15      -      150 FEET
	LIGHTING UNIT: TYPE AS INDICATED
	47'-6" M.H., 6 FT. DAVIT ARM LED M-C-III LUMINAIRE. MOUNTED ON PARAPET WALL
	47'-6" M.H., 12 FT. DAVIT ARM LED M-C-III LUMINAIRE. MOUNTED ON PARAPET WALL
	47'-6" M.H., 2-6 FT. DAVIT ARM 2-LED M-C-III LUMINAIRE. MOUNTED ON PARAPET WALL
	TEMPORARY LED LUMINAIRE AND POLE; 80 FOOT WOOD POLE
	TEMPORARY LIGHTING UNIT: WOOD POLE WITH LUMINAIRES; 80 FOOT WOOD POLE WITH FOUR 400W HPS HIGH MAST LUMINAIRES
	UNDERPASS LUMINAIRE: LED, TYPE AS SHOWN ON PLANS (PRIMARY DISTRIBUTION PATTERN DIRECTION AS INDICATED BY ARROW)
	MANHOLE
	ELECTRIC HANDHOLE: 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 TYPE C1: COMMUNICATIONS VAULT, 49 5/8"x32 1/8"x57" TYPE S1: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x36" TYPE S2: PRECAST CONCRETE-HEAVY DUTY SPECIAL, 30"x30"x36"
	DOUBLE ELECTRIC HANDHOLE
	JUNCTION BOX: TYPE AND SIZE AS INDICATED ON PLANS
	PULL BOX: TYPE AND SIZE AS INDICATED ON PLANS
	TELEPHONE CONNECTION
	FIBER OPTIC COMMUNICATIONS HUT
	EXISTING LIGHT TOWER
	EXISTING LIGHTING UNIT, TWIN LUMINAIRE
	EXISTING LIGHTING UNIT
	EXISTING TEMPORARY LIGHTING UNIT
	EXISTING CDOT LIGHTING UNIT
	EXISTING UNDERPASS LUMINAIRE
	EXISTING ELECTRIC MANHOLE
	EXISTING ELECTRIC HANDHOLE
	EXISTING JUNCTION BOX
	EXISTING PULL BOX
	EXISTING TELEPHONE CONNECTION
	EXISTING FIBER OPTIC COMMUNICATIONS HUT
	EXISTING ELECTRIC HANDHOLE/MANHOLE
	EXISTING CDOT SURVEILLANCE CABINET

**ELECTRICAL SYMBOLS FOR PROPOSED WORK**

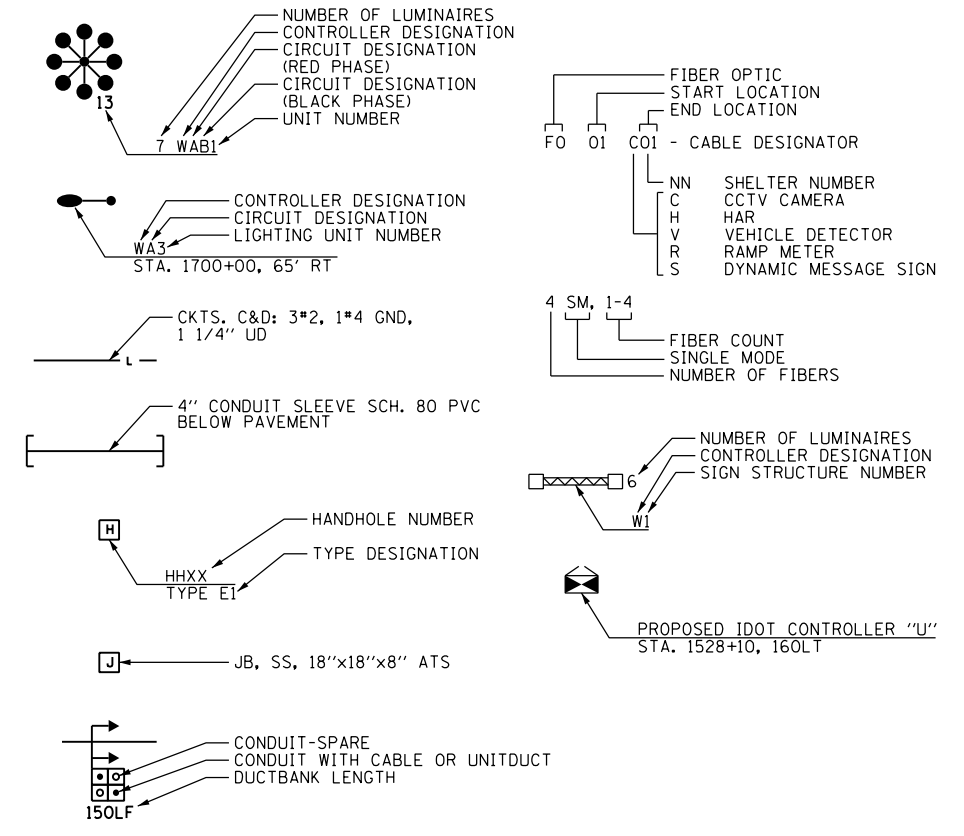
	LIGHTED SIGN STRUCTURE-CANTILEVER TYPE (NUMBER OF FLUORESCENT FIXTURES AS INDICATED - TYP.)
	LIGHTED SIGN STRUCTURE-TRUSS TYPE
	LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE
	DYNAMIC MESSAGE SIGN
	FLASHING BEACON SIGN
	CLOSED CIRCUIT TELEVISION CAMERA
	MICROWAVE DETECTOR
	DETECTOR LOOP
	CONTROLLER CABINET: LIGHTING, RADIO CONTROL DUPLEX TYPE WITH SCADA (DOOR SIDE AS INDICATED)
	CONTROLLER CABINET: SURVEILLANCE
	CONTROLLER CABINET: SURVEILLANCE, TYPE 334
	RAMP METER SIGNAL POLE/HEAD
	RAMP METER FLASHER POST
	TEMPORARY WOOD POLE, LENGTH AS INDICATED ON THE PLANS
	HIGHWAY ADVISORY RADIO ANTENNA
	ELECTRIC UTILITY POLE
	CCTV CAMERA POLE
	POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)

**ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS**

	EXISTING CDOT ELECTRIC HANDHOLE/MANHOLE
	EXISTING LIGHTED SIGN STRUCTURE- CANTILEVER TYPE
	EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE
	EXISTING LIGHTED SIGN STRUCTURE- BRIDGE MOUNT TYPE
	EXISTING DYNAMIC MESSAGE SIGN
	EXISTING FLASHING BEACON SIGN
	EXISTING CLOSED CIRCUIT TELEVISION CAMERA
	EXISTING MICROWAVE DETECTOR
	EXISTING DETECTOR LOOP
	EXISTING LIGHTING CONTROLLER, DUPLEX
	EXISTING CONTROLLER CABINET

	PAD MOUNTED ELECTRIC UTILITY TRANSFORMER
	GROUND ROD
	MAIN SERVICE FUSED DISCONNECT SWITCH (RATING AS INDICATED)
	PHOTOCELL
	AERIAL CABLE
	FLEXIBLE CONDUIT
	RACEWAY EMBEDDED IN STRUCTURE
	EXPOSED CONDUIT
	RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT
	TYPE AS SHOWN ON PLANS CONDUIT SLEEVE, INSTALLED BELOW PAVEMENT
	UNDERGROUND REINFORCED CONCRETE ENCASED CONDUIT DUCTBANK, UNLESS NOTED OTHERWISE. (NUMBER, TYPE, AND SIZE OF DUCTS AS SHOWN)
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	EXISTING RAMP METER FLASHER
	EXISTING HIGHWAY ADVISORY RADIO ANTENNA
	EXISTING CCTV CAMERA POLE
	EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
	EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED
	EXISTING CONCEALED CONDUIT IN STRUCTURE
	EXISTING EXPOSED CONDUIT
	EXISTING RACEWAY OR DIRECT BURIED CABLE WITHOUT ENCASEMENT
	EXISTING CONCEALED CONDUIT UNDERGROUND, TRENCHED OR PUSHED
	EXISTING ELECTRIC CABLE IN CONDUIT SLEEVE
	EXISTING AERIAL CABLE TO REMAIN
	EXISTING ELECTRICAL EQUIPMENT TO BE ABANDONED

**GENERAL ELECTRICAL CALLOUTS**



**TYPICAL EXISTING TO BE REMOVED SYMBOLS**

	EXISTING LIGHTING UNIT TO BE REMOVED
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	EXISTING JUNCTION BOX TO BE REMOVED
	EXISTING LIGHTED SIGN STRUCTURE- CANTILEVER TYPE TO BE REMOVED
	DYNAMIC MESSAGE SIGN TO BE REMOVED
	FLASHING BEACON SIGN TO BE REMOVED
	EXISTING LIGHTING CONTROLLER, DUPLEX TO BE REMOVED
	EXISTING CONTROLLER CABINET TO BE REMOVED
	EXISTING DETECTOR LOOP TO BE REMOVED
	EXISTING RAMP METER SIGNAL POLE/HEAD TO BE REMOVED
	EXISTING RAMP METER FLASHER TO BE REMOVED
	EXISTING POLE MOUNTED UTILITY SERVICE CONNECTION TO BE REMOVED
	EXISTING LIGHT TOWER, PAD, AND FOUNDATION TO BE REMOVED
	EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED



D160X79-sht-Light-01	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 2,0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

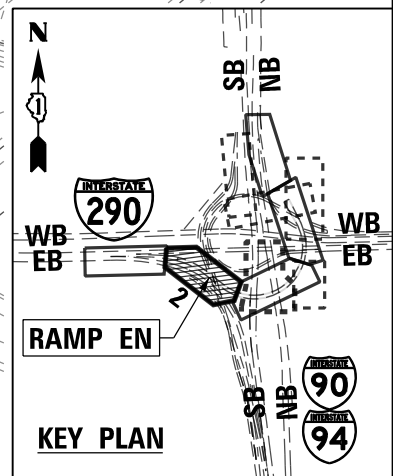
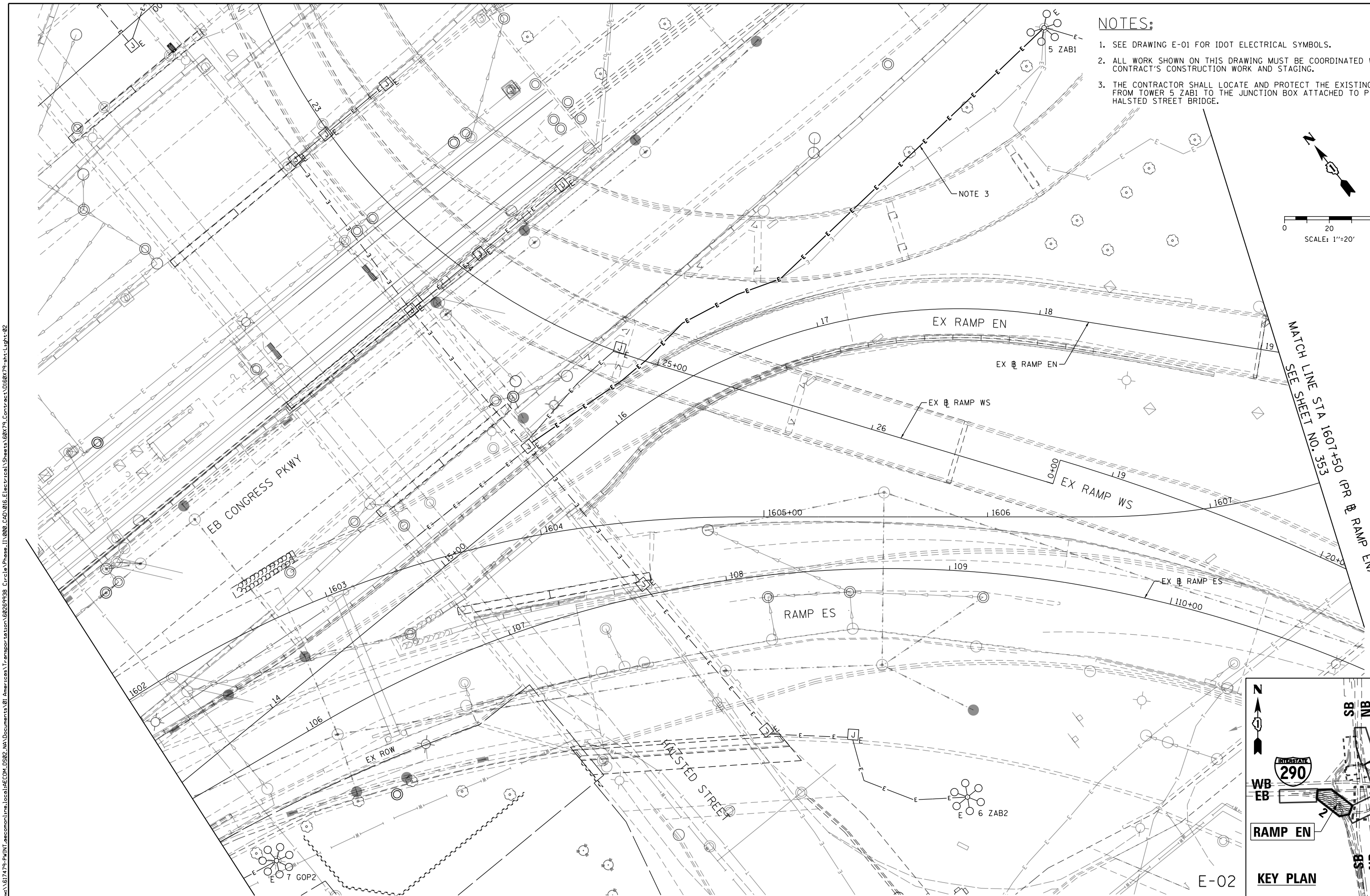
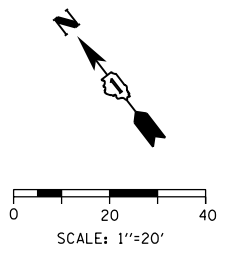
IDOT ELECTRICAL SYMBOLS

SCALE: N.T.S. SHEET 1 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	351
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE CONTRACTOR SHALL LOCATE AND PROTECT THE EXISTING FEED FROM TOWER 5 ZAB1 TO THE JUNCTION BOX ATTACHED TO PIER 1 OF HALSTED STREET BRIDGE.



E-02

FILE PATH = p:\61779-PM\INT\pccom\line\local\AECOM\_D592\_NA\Documents\01\_Americas\T\_engor\station\60269938\_Circle\Phase\_1\1000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-02



D160X79-sht-Light-02	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

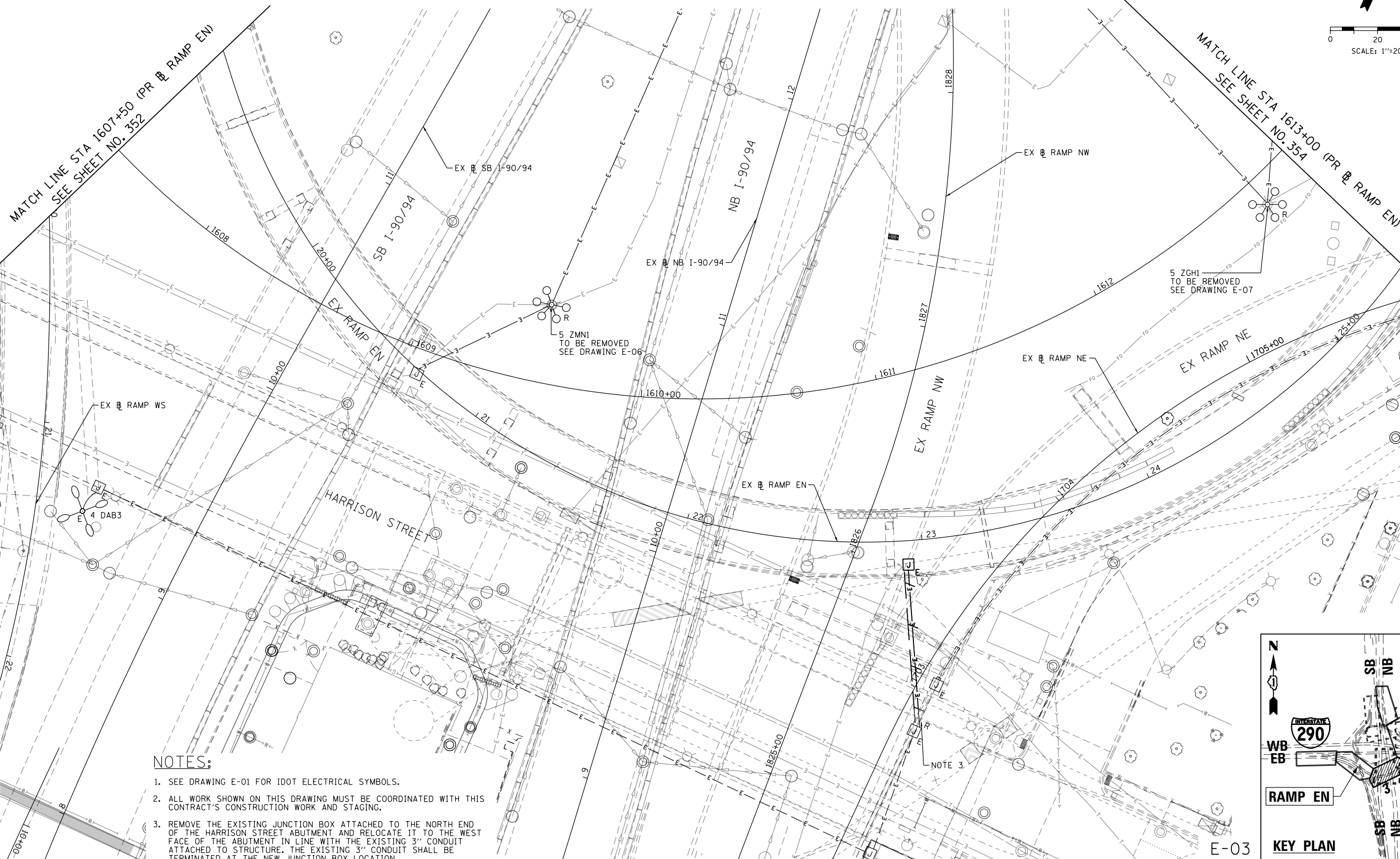
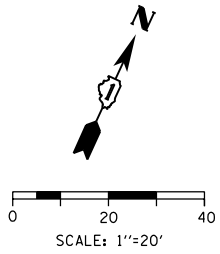
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY LIGHTING PLAN  
RAMP EN**

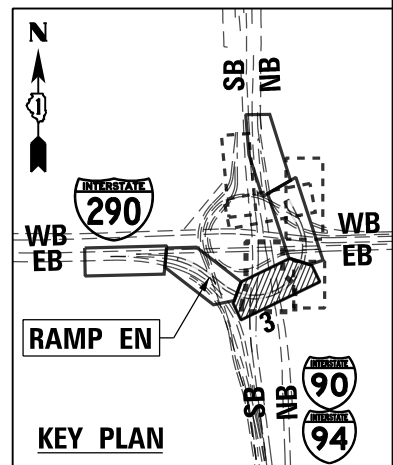
SCALE: 1"=20'    SHEET 2 OF 37 SHEETS    STA. 1602+00 TO STA. 1607+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	352
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				





- NOTES:**
1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
  2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
  3. REMOVE THE EXISTING JUNCTION BOX ATTACHED TO THE NORTH END OF THE HARRISON STREET ABUTMENT AND RELOCATE IT TO THE WEST FACE OF THE ABUTMENT IN LINE WITH THE EXISTING 3" CONDUIT ATTACHED TO STRUCTURE. THE EXISTING 3" CONDUIT SHALL BE TERMINATED AT THE NEW JUNCTION BOX LOCATION.



E-03



D160X79-sht-Light-03	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

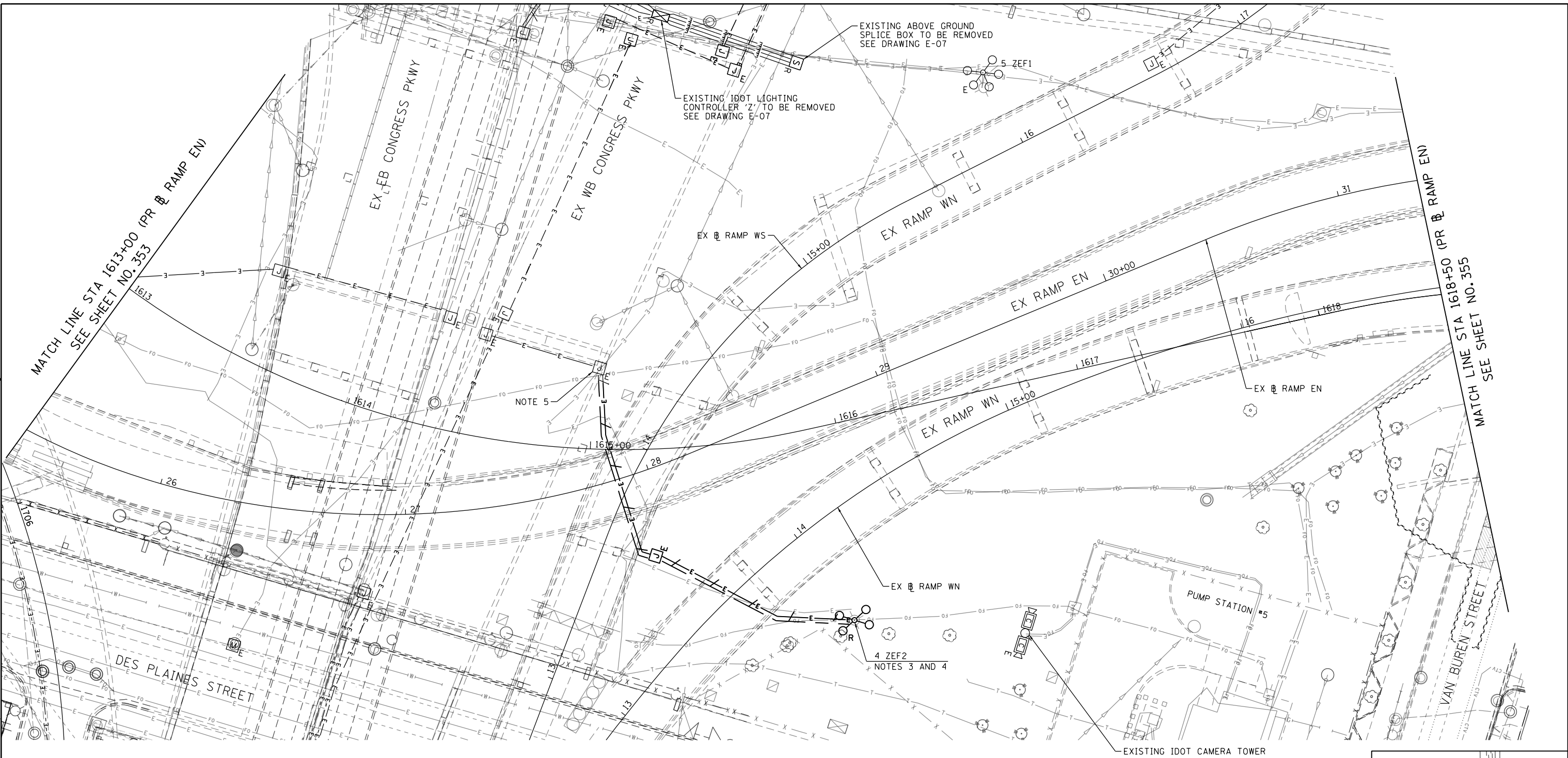
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING/TEMPORARY LIGHTING PLAN</b>	
<b>RAMP EN</b>	
SCALE: 1"=20'	SHEET 3 OF 37 SHEETS
STA. 1607+50 TO STA. 1613+00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	353
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

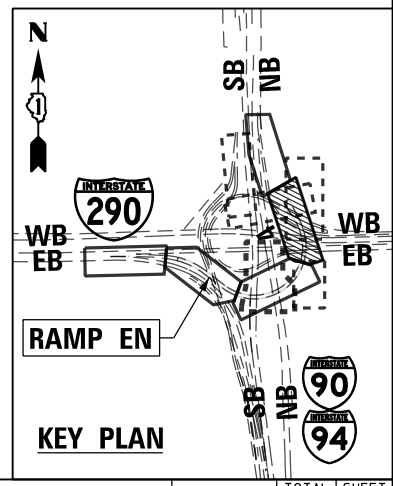
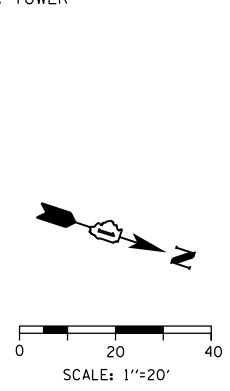
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**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE EXISTING LIGHT TOWERS AND ASSOCIATED POWER FEEDS WILL BE REMOVED AT A TIME DETERMINED BY THE FIELD ENGINEER.
4. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE. THE EXISTING HIGH MAST LUMINAIRES SHALL NOT BE SALVAGED, UNLESS NOTED OTHERWISE.
5. REMOVE THE EXISTING LIGHTING CIRCUIT CABLES FROM THE EXISTING VERTICAL CONDUIT RISER TO THE JUNCTION BOX ATTACHED TO STRUCTURE. ROD AND CLEAN THE EXISTING CONDUIT FOR FUTURE USE.



E-04



D160X79-sht-Light-04	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
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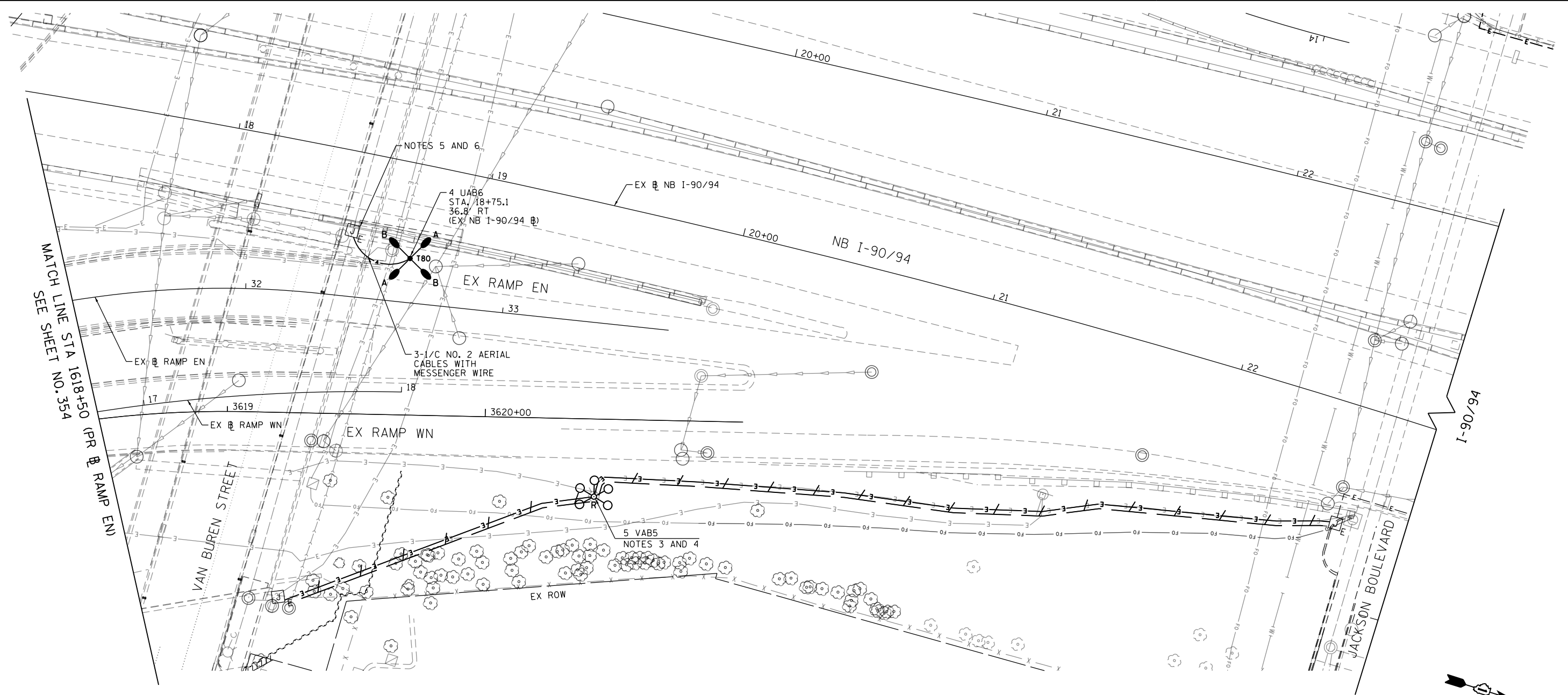
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY LIGHTING PLAN  
RAMP EN**

SCALE: 1"=20' SHEET 4 OF 37 SHEETS STA. 1613+00 TO STA. 1618+50

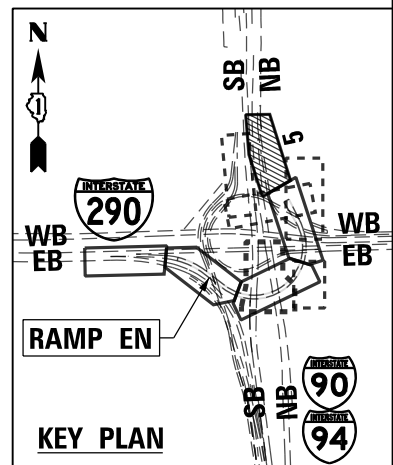
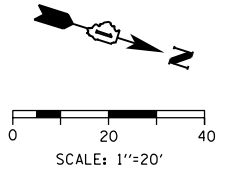
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	354
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-PMINT\pccommon\line\local\AECOM\0902\_NA\Documents\01\_Americas\T\engor\station\60269438\_Circle\Phase\_11\000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-05



**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. EXISTING LIGHT TOWER 5 VAB5 SHALL NOT BE REMOVED UNTIL THE TEMPORARY LIGHTING UNIT HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED AND COORDINATED SUCH THAT ONE OF THESE TWO LIGHTING UNITS SHALL BE OPERATIONAL DURING NIGHTTIME HOURS.
4. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE. THE EXISTING HIGH MAST LUMINAIRES SHALL NOT BE SALVAGED, UNLESS NOTED OTHERWISE.
5. SEE IDOT STANDARD DRAWING BE-801 FOR ATTACHING AERIAL CABLES TO STRUCTURE.
6. DRILL THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND CONNECT THE TEMPORARY AERIAL CABLES TO THE LIGHTING CIRCUIT CABLES INSIDE THE JUNCTION BOX. SEE DRAWING E-08 FOR THE CONTINUATION OF THE TEMPORARY LIGHTING CIRCUIT.



E-05



D160X79-sht-Light-05	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
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DATE - 7-30-2018	REVISED -

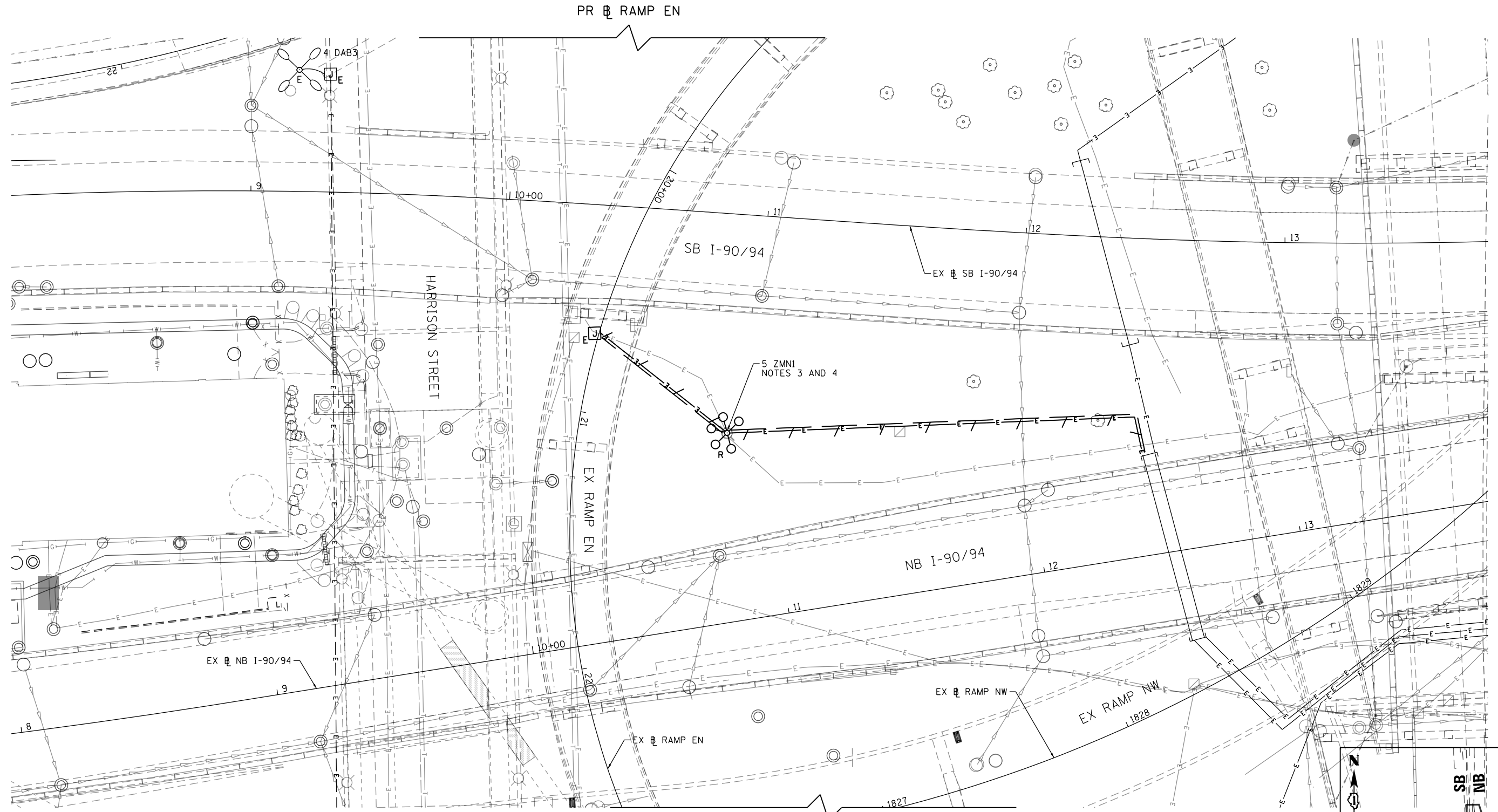
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY LIGHTING PLAN  
RAMP EN**

SCALE: 1"=20' SHEET 5 OF 37 SHEETS STA. 1618+50 TO STA. 1623+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	355
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

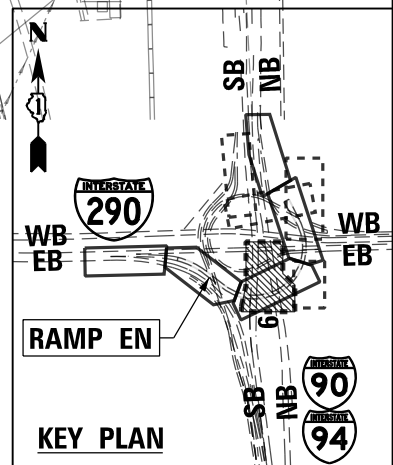
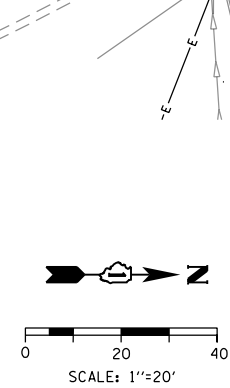
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**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE EXISTING LIGHT TOWERS AND ASSOCIATED POWER FEEDS WILL BE REMOVED AT A TIME DETERMINED BY THE FIELD ENGINEER.
4. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE. THE EXISTING HIGH MAST LUMINAIRES SHALL NOT BE SALVAGED, UNLESS NOTED OTHERWISE.

PR RAMP EN



E-06



D160X79-sht-Light-06	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

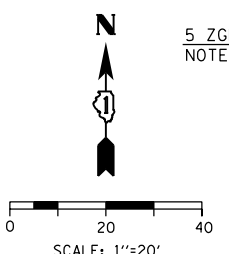
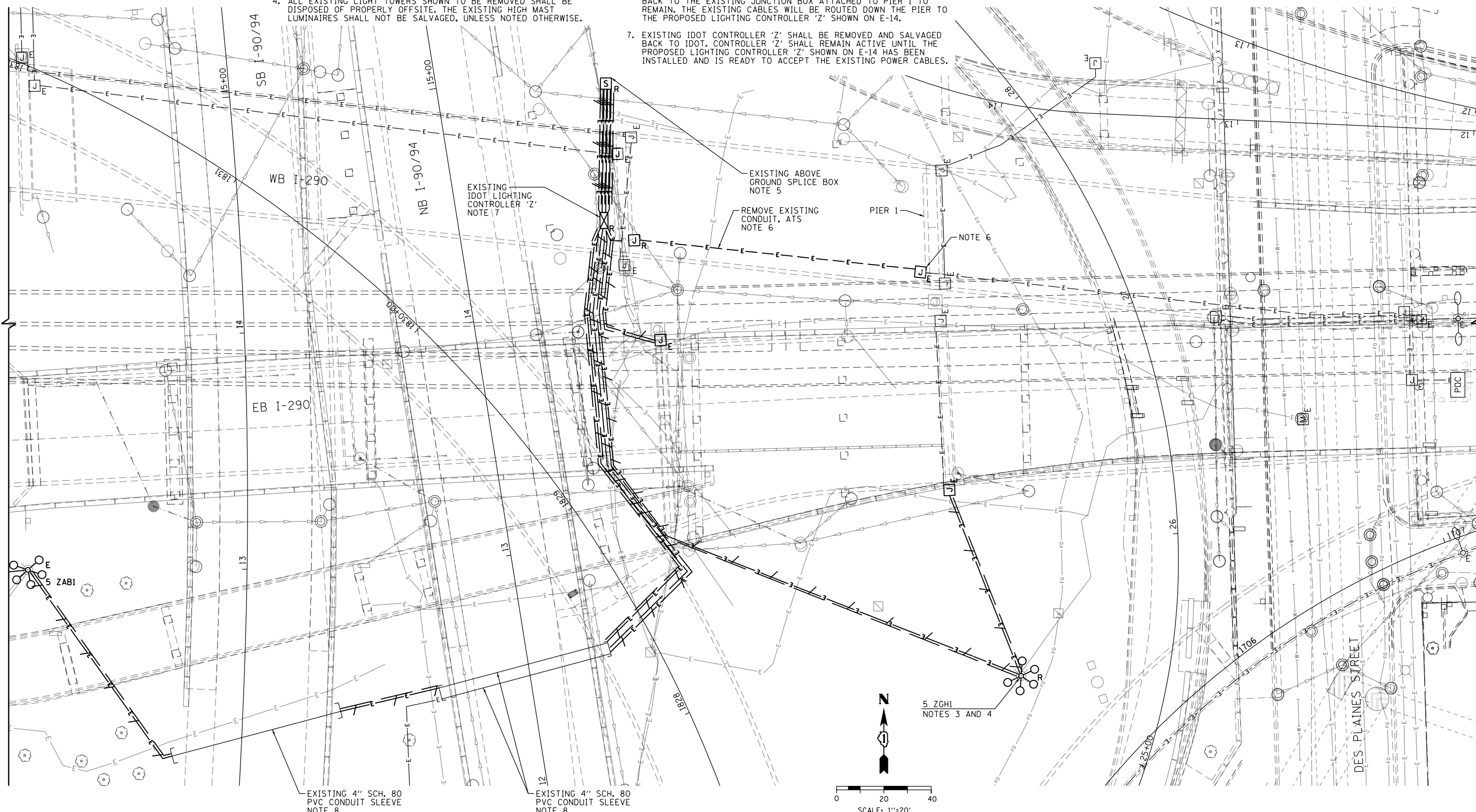
**EXISTING/TEMPORARY LIGHTING PLAN  
RAMP EN**

SCALE: 1"=20' SHEET 6 OF 37 SHEETS STA. 1608+00 TO STA. 1611+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	356
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE EXISTING LIGHT TOWERS AND ASSOCIATED FEEDS WILL BE REMOVED AT A TIME DETERMINED BY THE FIELD ENGINEER.
4. ALL EXISTING LIGHT TOWERS SHOWN TO BE REMOVED SHALL BE DISPOSED OF PROPERLY OFFSITE. THE EXISTING HIGH MAST LUMINAIRES SHALL NOT BE SALVAGED, UNLESS NOTED OTHERWISE.
5. REMOVE THE EXISTING ABOVE GROUND SPLICE BOX ONCE THE PROPOSED IDOT LIGHTING CONTROLLER 'Z' HAS BEEN ENERGIZED, TESTED, AND APPROVED. ABANDON ALL EXISTING UNDERGROUND UNIT DUCT ROUTED INTO THE SPLICE BOX. REMOVAL OF THE EXISTING SPLICE BOX WILL BE COUNTED AND PAID FOR UNDER THE "REMOVE EXISTING JUNCTION BOX" PAY ITEM.
6. PULL THE EXISTING LIGHTING CONTROLLER 'Z' POWER FEED CABLES BACK TO THE EXISTING JUNCTION BOX ATTACHED TO PIER 1 TO REMAIN. THE EXISTING CABLES WILL BE ROUTED DOWN THE PIER TO THE PROPOSED LIGHTING CONTROLLER 'Z' SHOWN ON E-14.
7. EXISTING IDOT CONTROLLER 'Z' SHALL BE REMOVED AND SALVAGED BACK TO IDOT. CONTROLLER 'Z' SHALL REMAIN ACTIVE UNTIL THE PROPOSED LIGHTING CONTROLLER 'Z' SHOWN ON E-14 HAS BEEN INSTALLED AND IS READY TO ACCEPT THE EXISTING POWER CABLES.
8. REMOVE THE EXISTING UNITDUCT WITHIN THE CONDUIT SLEEVE AND ROD AND CLEAN THE SLEEVE FOR FUTURE USE. THIS WORK WILL BE INCLUDED IN THE "REMOVE EXISTING CABLE" AND "ROD AND CLEAN EXISTING CONDUIT" PAY ITEMS.



E-07

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D160X79-sht-Light-07  
 USER NAME = myersc  
 PLOT SCALE = 40.0000 ' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

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

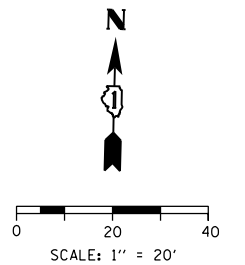
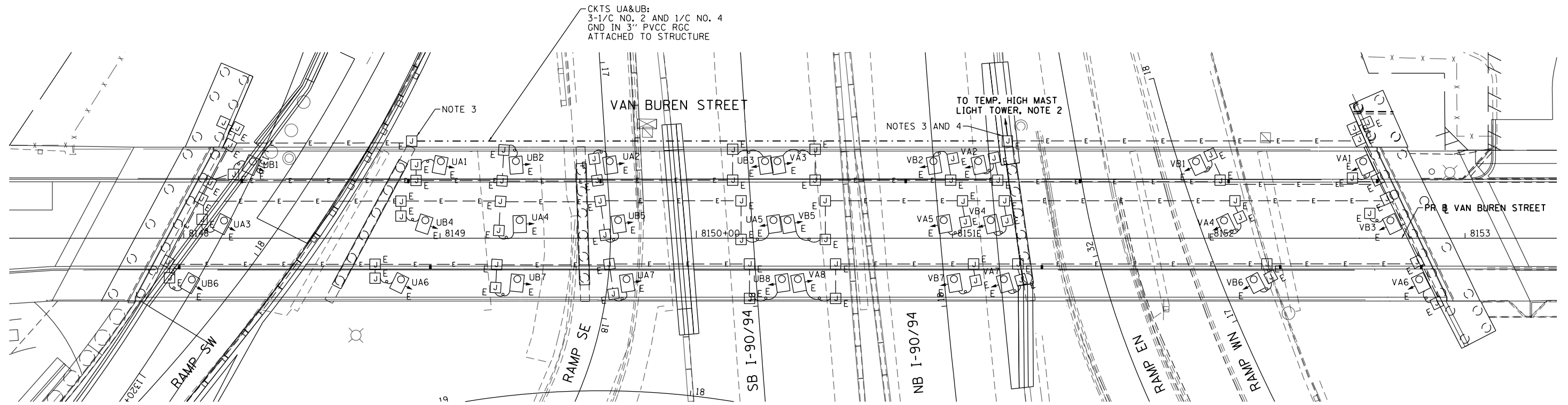
**EXISTING/TEMPORARY LIGHTING PLAN**  
**RAMP EN TEMPORARY CONTROLLER Z REMOVAL**  
 SCALE: 1"=20' SHEET 7 OF 37 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 357
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWING E-05 FOR THE CONTINUATION OF THE TEMPORARY LIGHTING CIRCUITS.
3. DRILL THE EXISTING JUNCTION BOX ATTACHED TO PIER 1 OF THE VAN BUREN BRIDGE STRUCTURE AND ROUTE A 3 INCH PVC COATED RIGID STEEL CONDUIT ALONG THE VAN BUREN BRIDGE TO THE SECOND EXISTING JUNCTION BOX LOCATED ON PIER 3. PULL NEW LIGHTING CIRCUIT CABLES THROUGH THE NEW RACEWAY AND SPLICE THE PROPOSED LIGHTING CIRCUIT CABLES TO THE EXISTING CABLES COILED WITHIN THE EXISTING JUNCTION BOX ON PIER 3.
4. CONNECT THE AERIAL CABLES FOR THE TEMPORARY HIGH MAST LIGHT TOWER, 4 UAB6, TO THE LIGHTING CIRCUIT CABLES INSIDE THE JUNCTION BOX ATTACHED TO PIER 3 OF THE VAN BUREN BRIDGE STRUCTURE.



E-08

FILE PATH = p:\6179-PM\INT\pccommon\line\local\AECOM\0502\_NA\Documents\01\_Americas\T\engor-tation\60269938\_Circle\Phase\_11\000\_CAD\016\_Electrical\Sheets\60X79\_Contract\0160X79-Sht-Light-08



D160X79-Sht-Light-08	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING/TEMPORARY LIGHTING PLAN  
VAN BUREN UNDERPASS

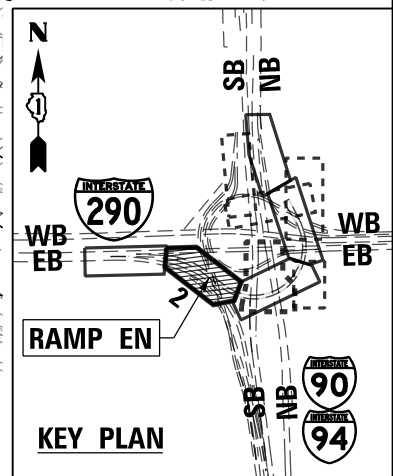
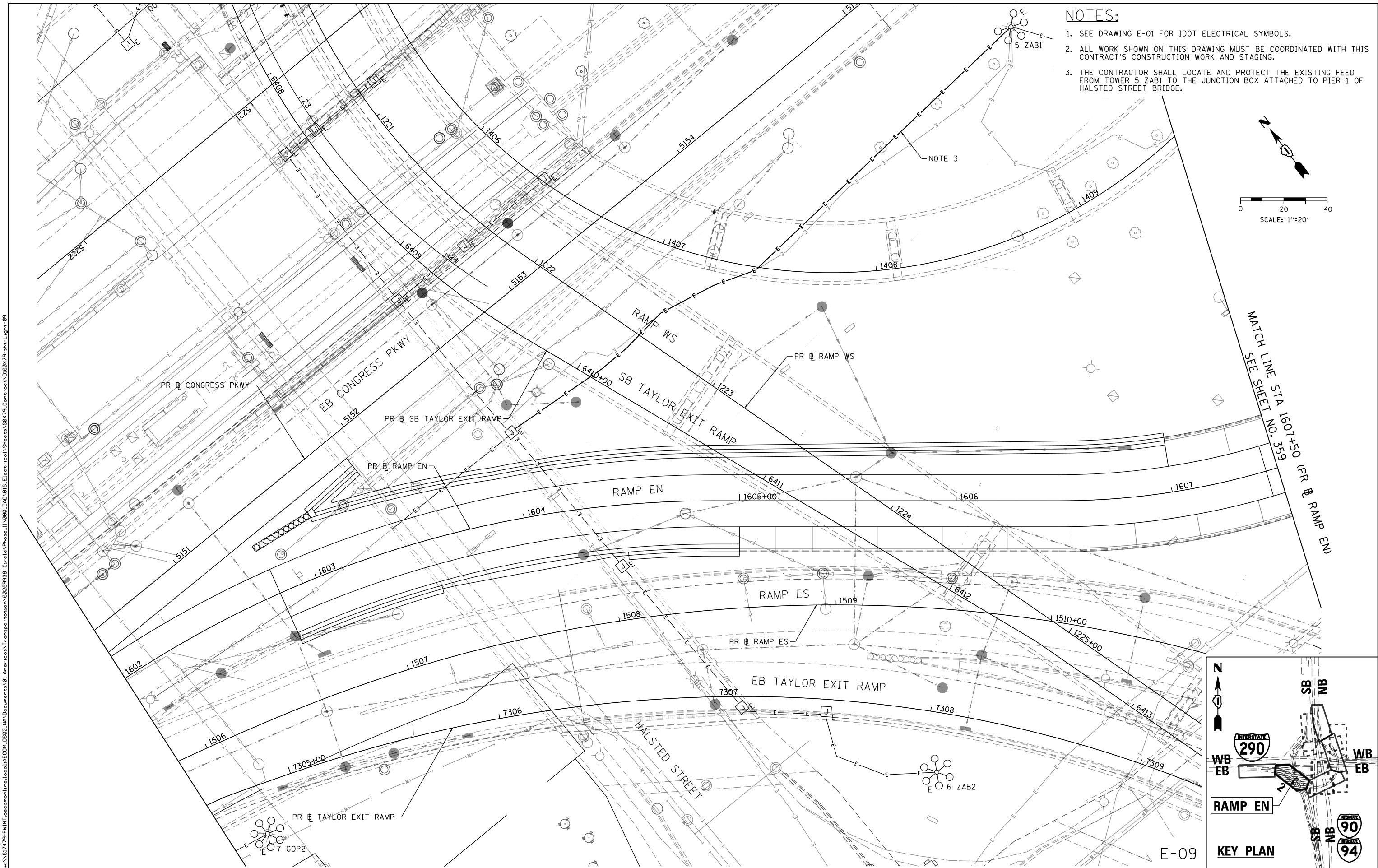
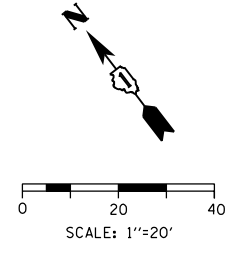
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	358
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE CONTRACTOR SHALL LOCATE AND PROTECT THE EXISTING FEED FROM TOWER 5 ZAB1 TO THE JUNCTION BOX ATTACHED TO PIER 1 OF HALSTED STREET BRIDGE.



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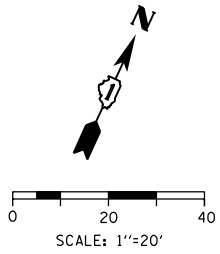
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 DEPARTMENT OF TRANSPORTATION**

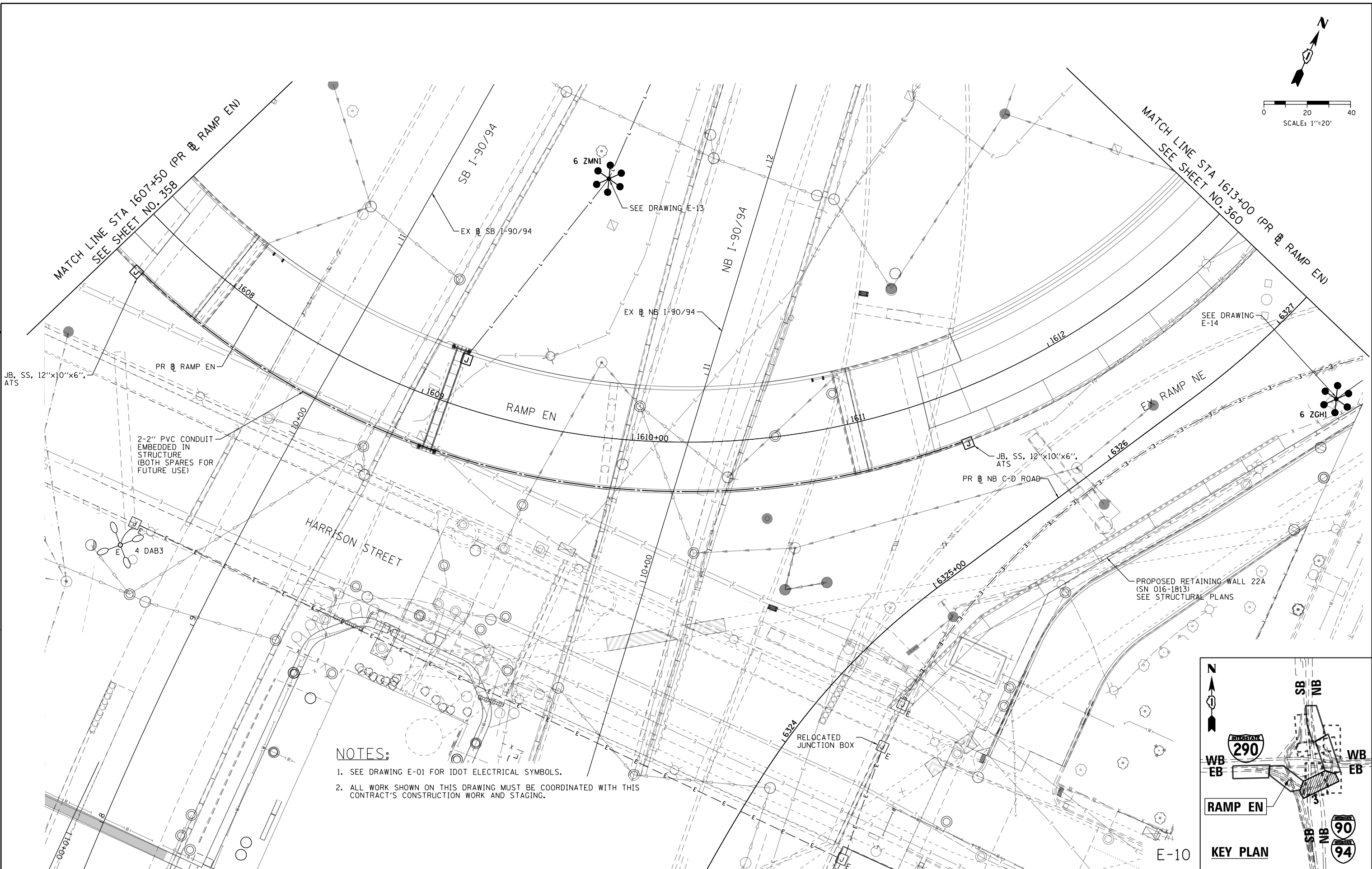
**PROPOSED LIGHTING PLAN  
 RAMP EN**

SCALE: 1"=20'    SHEET 9 OF 37 SHEETS    STA. 1602+00 TO STA. 1607+50

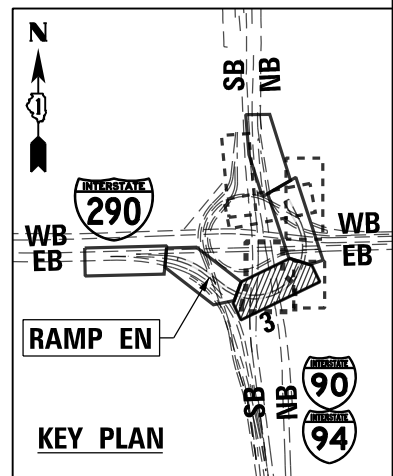
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90/94/290	2014-005R&B	COOK	888	359
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



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- NOTES:**
1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
  2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.

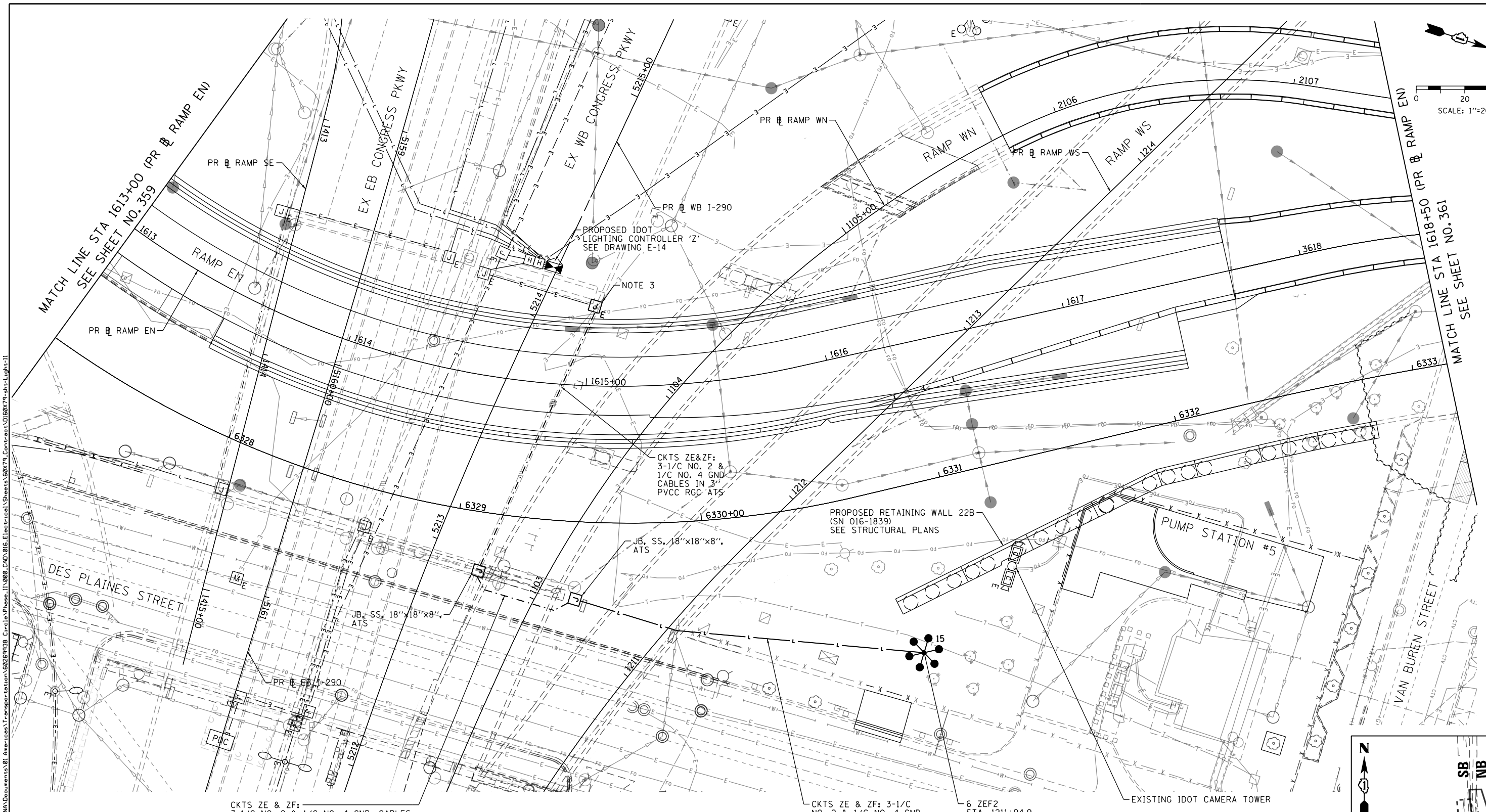
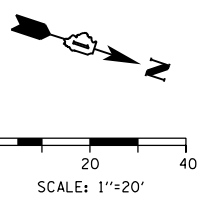


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**STATE OF ILLINOIS  
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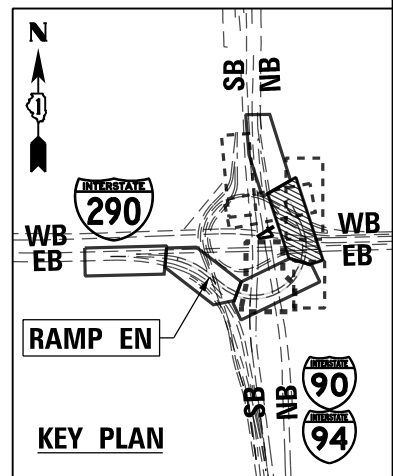
<b>PROPOSED LIGHTING PLAN</b>		
<b>RAMP EN</b>		
SCALE: 1"=20'	SHEET 10 OF 37 SHEETS	STA. 1607+50 TO STA. 1613+00

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 360
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. DRILL THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND ROUTE A 3" CONDUIT ACROSS THE BRIDGE STRUCTURE TO THE PROPOSED JUNCTION BOX. SPLICE THE NEW LIGHTING CIRCUITS TO THE EXISTING LIGHTING CIRCUITS LOCATED WITHIN THE EXISTING JUNCTION BOX.



E-11

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D160X79-sht-Light-11	DESIGNED - TJL	REVISED -
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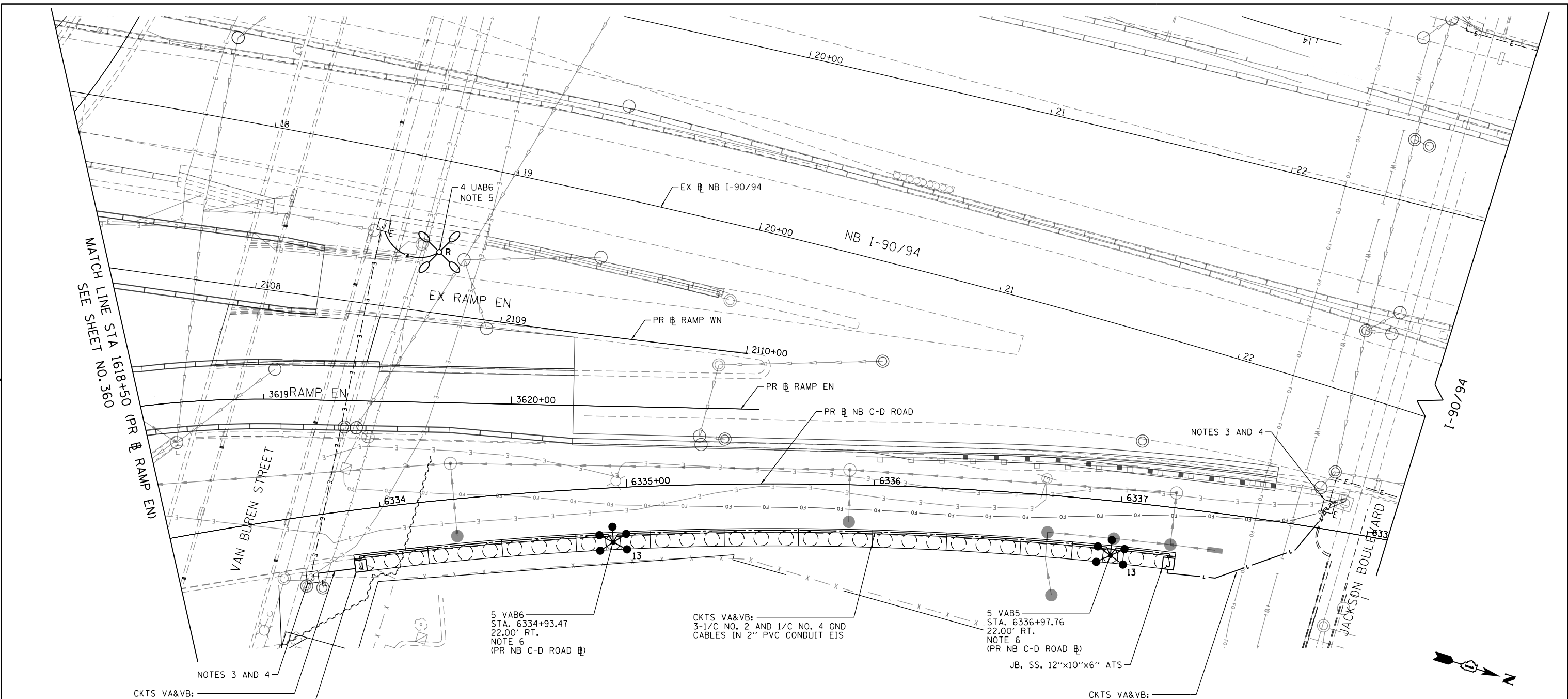
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN  
RAMP EN**

SCALE: 1"=20' SHEET 11 OF 37 SHEETS STA. 1613+00 TO STA. 1618+50

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 361
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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NOTES 3 AND 4  
 CKTS VA&VB:  
 3-1/C NO. 2 AND 1/C NO. 4 GND  
 CABLES IN 2" PVCC RGC ATS  
 JB, SS, 12"x10"x6" ATS

5 VAB6  
 STA. 6334+93.47  
 22.00' RT.  
 NOTE 6  
 (PR NB C-D ROAD Ⓟ)

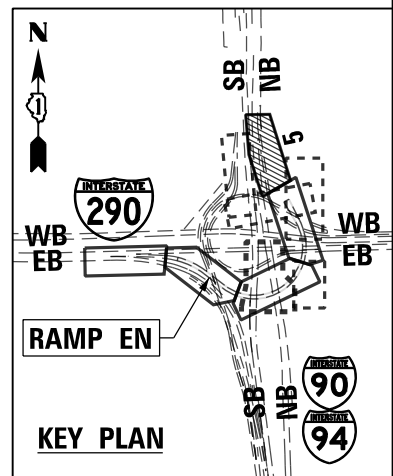
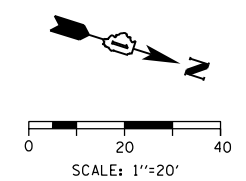
CKTS VA&VB:  
 3-1/C NO. 2 AND 1/C NO. 4 GND  
 CABLES IN 2" PVC CONDUIT EIS

5 VAB5  
 STA. 6336+97.76  
 22.00' RT.  
 NOTE 6  
 (PR NB C-D ROAD Ⓟ)  
 JB, SS, 12"x10"x6" ATS

CKTS VA&VB:  
 3-1/C NO. 2 AND  
 1/C NO. 4 GND  
 CABLES IN 1-1/2" UD

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. REMOVE THE EXISTING LIGHTING CIRCUIT CABLES FROM THE EXISTING VERTICAL CONDUIT ATTACHED TO STRUCTURE PRIOR TO INSTALLING THE PROPOSED LIGHTING CIRCUIT CABLES.
4. ROUTE NEW UNIT DUCT UP INTO THE EXISTING CONDUIT ATTACHED TO STRUCTURE INTO THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND SPLICE THE PROPOSED LIGHTING CIRCUIT CABLES TO THE EXISTING LIGHTING CIRCUITS LOCATED WITHIN THE JUNCTION BOX.
5. THE EXISTING TEMPORARY LIGHT TOWER 4 UAB6 SHALL NOT BE REMOVED UNTIL THE PROPOSED LIGHT TOWER 5 VAB5 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED AND COORDINATED SUCH THAT ONE OF THESE TWO LIGHTING UNITS SHALL BE OPERATIONAL DURING NIGHTTIME HOURS.
6. SEE DRAWING E-21 FOR THE CONDUIT INSTALLATION DETAIL FOR HIGH MAST LIGHT TOWER FOUNDATION IN RETAINING WALL.



E-12



D160X79-sht-Light-12	DESIGNED - TJL	REVISED -
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

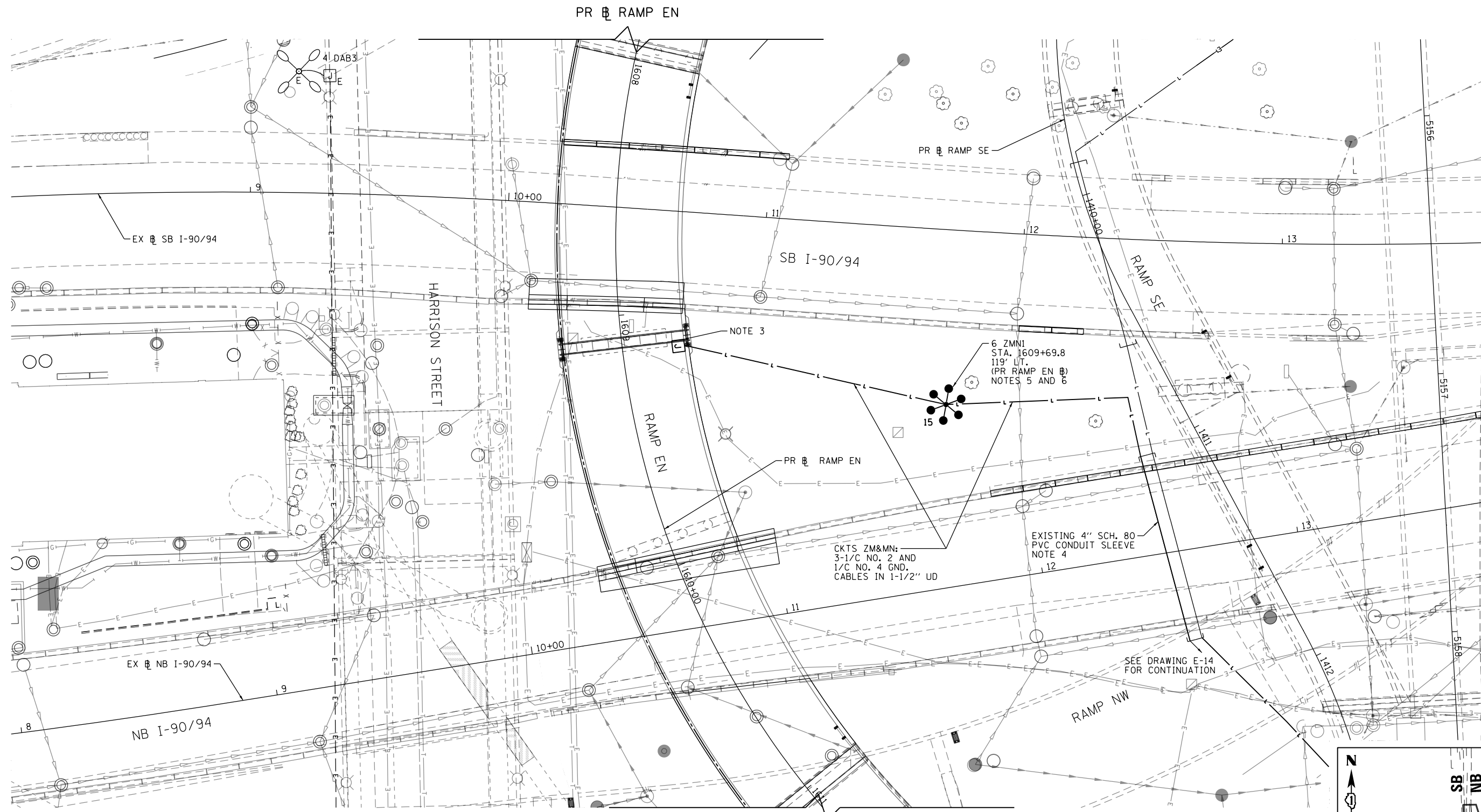
**PROPOSED LIGHTING PLAN  
 RAMP EN**

SCALE: 1"=20' SHEET 12 OF 37 SHEETS STA. 1618+50 TO STA. 1623+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	362
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

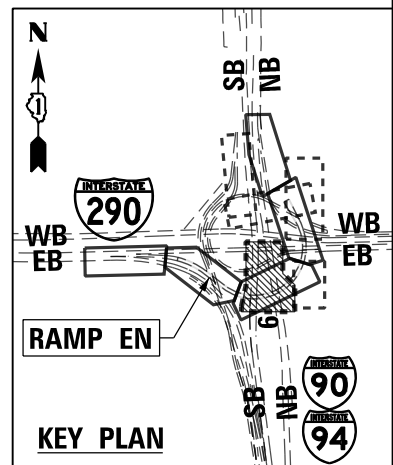
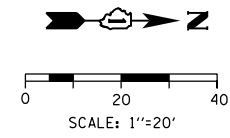


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**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. SEE DRAWING E-16 FOR CONTINUATION OF THE LIGHTING CIRCUITS.
4. THE EXISTING 4 INCH CONDUIT SLEEVE LOCATED UNDER THE ROADWAY SHALL BE REUSED FOR THE PROPOSED LIGHTING CIRCUIT FEEDS. IF THE SLEEVES HAVE BEEN DAMAGED OR CANNOT BE REUSED THE CONTRACTOR SHALL IMMEDIATELY INFORM THE RESIDENT ENGINEER FOR RESOLUTION.
5. A HIGH MAST LIGHT TOWER SERVICE PAD SHALL NOT BE INSTALLED AT THIS LOCATION DUE TO GRADING CHANGES IN A FUTURE IDOT CONTRACT.
6. DUE TO INTERIM GRADING THE FOUNDATION FOR HMLT 6 ZMNI WILL BE ROUGHLY 7' ABOVE GRADE AT THE END OF THIS CONTRACT.



E-13



D160X79-Sht-Light-13	DESIGNED - TJL	REVISED -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

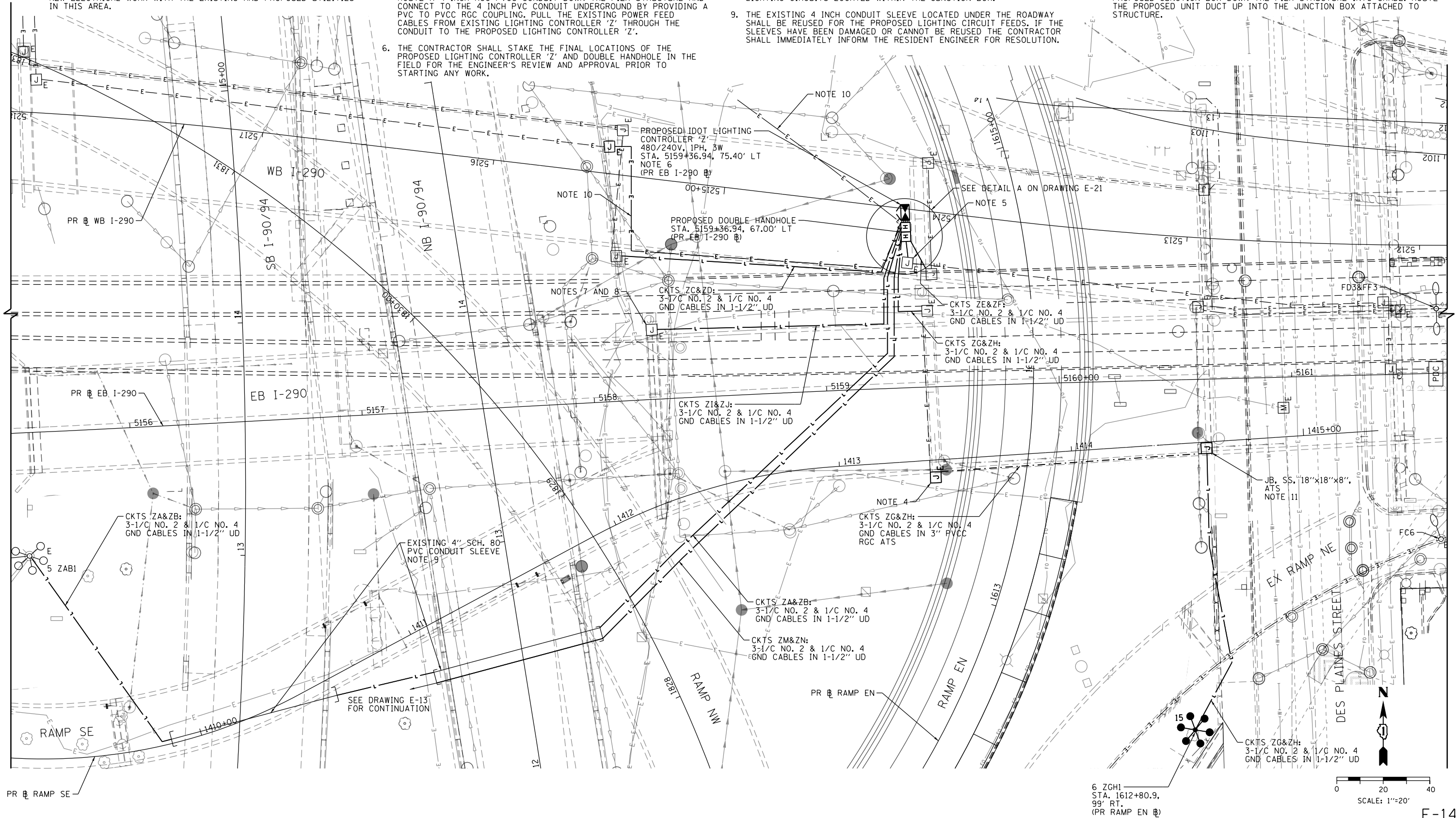
**PROPOSED LIGHTING PLAN**

SCALE: 1"=20' SHEET 13 OF 37 SHEETS STA. 1608+00 TO STA. 1611+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	363
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
3. THE EXISTING UTILITIES ARE NOT SHOWN ON THIS SHEET FOR CLARITY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL NEW ELECTRICAL WORK WITH THE EXISTING AND PROPOSED UTILITIES IN THIS AREA.
4. DRILL THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND ROUTE A 3 INCH CONDUIT ACROSS THE BRIDGE STRUCTURE TO THE PROPOSED JUNCTION BOX AS SHOWN. SPLICE THE NEW LIGHTING CIRCUITS TO THE EXISTING LIGHTING CIRCUITS LOCATED WITHIN THE EXISTING JUNCTION BOX.
5. DRILL THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND ROUTE A 4 INCH RGC PVCC CONDUIT DOWN THE PIER STRUCTURE AND CONNECT TO THE 4 INCH PVC CONDUIT UNDERGROUND BY PROVIDING A PVC TO PVCC RGC COUPLING. PULL THE EXISTING POWER FEED CABLES FROM EXISTING LIGHTING CONTROLLER 'Z' THROUGH THE CONDUIT TO THE PROPOSED LIGHTING CONTROLLER 'Z'.
6. THE CONTRACTOR SHALL STAKE THE FINAL LOCATIONS OF THE PROPOSED LIGHTING CONTROLLER 'Z' AND DOUBLE HANDHOLE IN THE FIELD FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK.
7. REMOVE THE EXISTING LIGHTING CIRCUIT CABLES AND CLEAN THE EXISTING VERTICAL CONDUIT RISERS ATTACHED TO STRUCTURE PRIOR TO INSTALLING THE NEW CABLES.
8. ROUTE NEW UNIT DUCT UP INTO THE EXISTING CONDUITS ATTACHED TO STRUCTURE INTO THE EXISTING JUNCTION BOX ATTACHED TO STRUCTURE AND SPLICE THE NEW CIRCUIT CABLES TO THE EXISTING LIGHTING CIRCUITS LOCATED WITHIN THE JUNCTION BOX.
9. THE EXISTING 4 INCH CONDUIT SLEEVE LOCATED UNDER THE ROADWAY SHALL BE REUSED FOR THE PROPOSED LIGHTING CIRCUIT FEEDS. IF THE SLEEVES HAVE BEEN DAMAGED OR CANNOT BE REUSED THE CONTRACTOR SHALL IMMEDIATELY INFORM THE RESIDENT ENGINEER FOR RESOLUTION.
10. CONTRACTOR COORDINATION IS REQUIRED BETWEEN CONTRACTS 60X79 AND 60X93 IN ORDER TO INSTALL THE LIGHTING CIRCUIT FEEDS FROM THE PROPOSED IDOT LIGHTING CONTROLLER 'Z' TO THE PROPOSED LIGHTING EQUIPMENT BEING INSTALLED IN CONTRACT 60X93.
11. SEE THE VERTICAL CONDUIT ATTACHED TO STRUCTURE DETAIL SHOWN ON DRAWING E-19 FOR ROUTING A 3 INCH PVCC RGC CONDUIT FROM THE PROPOSED JUNCTION BOX DOWN THE PIER STRUCTURE INTO GRADE. ROUTE THE PROPOSED UNIT DUCT UP INTO THE JUNCTION BOX ATTACHED TO STRUCTURE.



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D160X79-Sht-Light-14  
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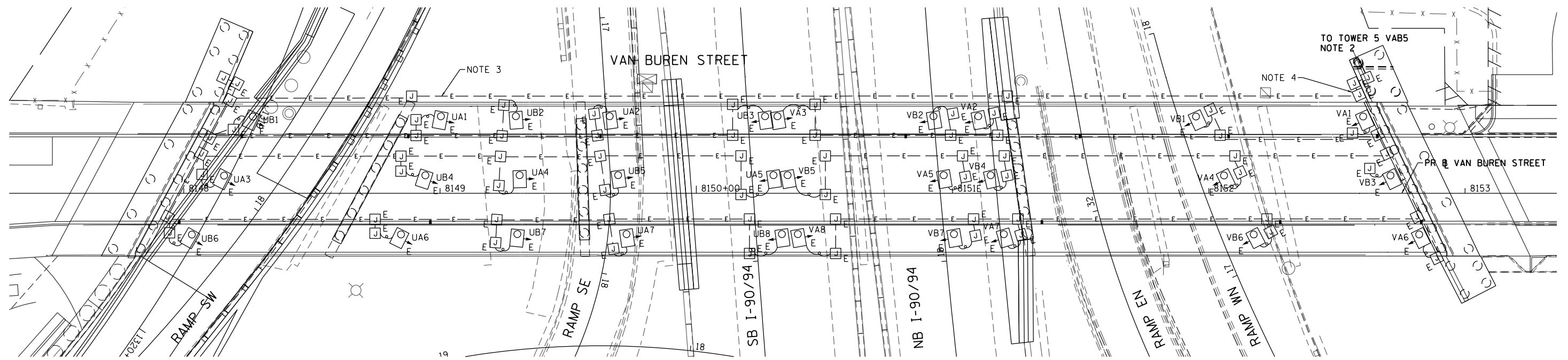
PROPOSED LIGHTING PLAN LIGHTING CIRCUIT  
 CONNECTIONS TO NEW CONTROLLER Z RAMP EN  
 SCALE: 1"=20' SHEET 14 OF 37 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 364
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	



**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWING E-12 FOR THE CONTINUATION OF THE PROPOSED LIGHTING CIRCUITS.
3. REMOVE THE EXISTING TEMPORARY LIGHTING CIRCUIT CABLES FROM THE 3 INCH CONDUIT ATTACHED TO THE VAN BUREN BRIDGE STRUCTURE ONCE PROPOSED HIGH MAST LIGHT TOWER 5 VAB5 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT . THE 3 INCH CONDUIT ATTACHED TO STRUCTURE SHALL REMAIN FOR FUTURE USE.
4. SPLICE THE EXISTING UNDERPASS LIGHTING CIRCUIT CABLES TO THE PROPOSED UNITDUCT THAT IS SHOWN TO BE ROUTED INTO THE EXISTING JUNCTION BOX ON DRAWING E-12. PROVIDE TERMINAL BLOCKS AND 30A FUSES IN THE JUNCTION BOX FOR SPLICING THE EXISTING NO. 10 UNDERPASS LIGHTING CABLES TO THE PROPOSED NUMBER 2 LIGHTING CIRCUIT CABLES.



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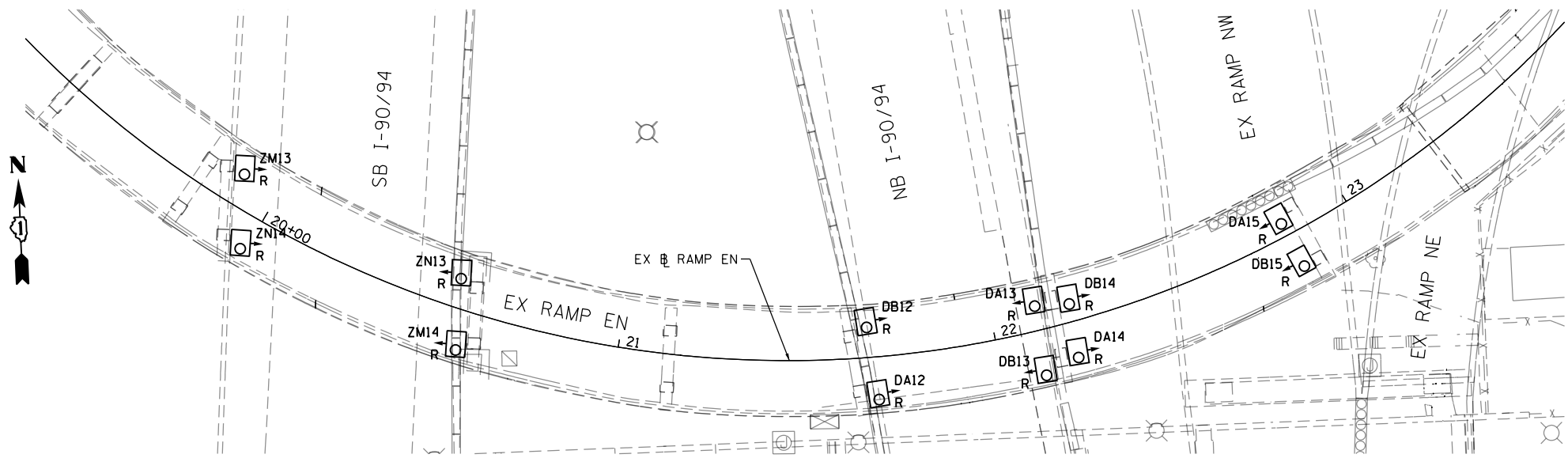
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**DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN**  
**VAN BUREN UNDERPASS**

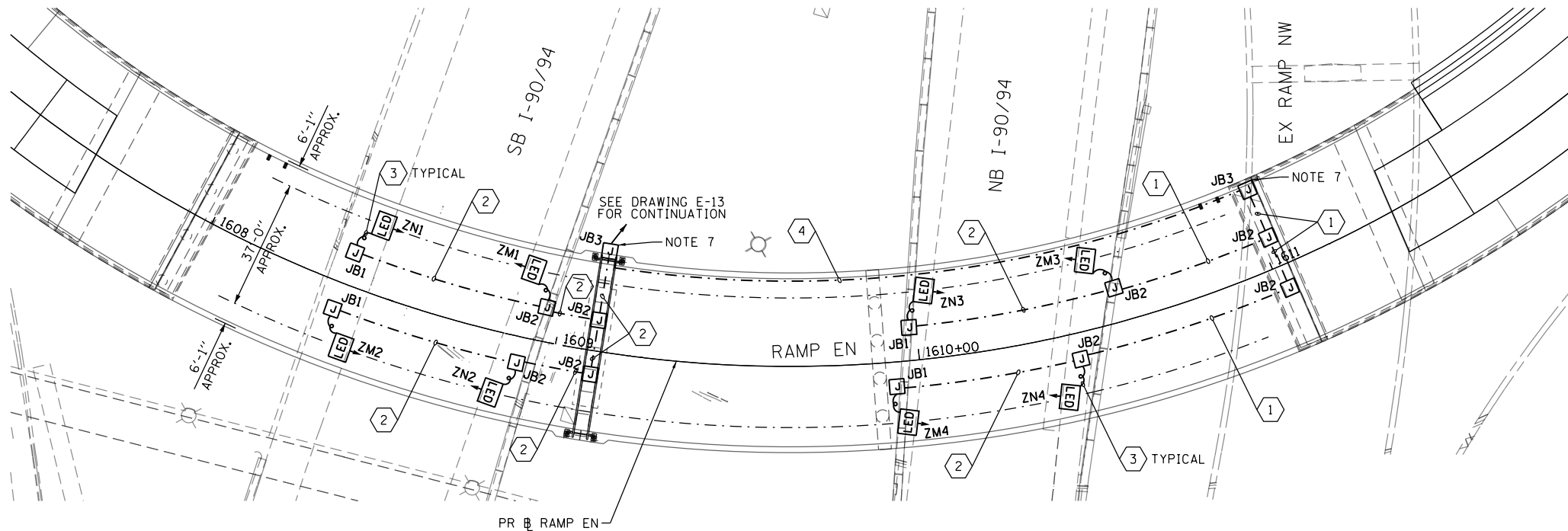
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	365
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**EXISTING UNDERPASS LIGHTING PLAN**  
NOTES 2 AND 6

- NOTES:**
- SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
  - LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT SHOWN ON THIS DRAWING ARE APPROXIMATIONS AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
  - SEE IDOT STANDARD DRAWING BE-900 FOR ADDITIONAL INSTALLATION DETAILS FOR PROPOSED SUSPENDED MOUNT UNDERPASS LUMINAIRES.
  - SEE IDOT STANDARD DRAWING BE-902 FOR ADDITIONAL INSTALLATION DETAILS FOR THE PROPOSED PIER/ABUTMENT WALL MOUNTED UNDERPASS LUMINAIRES.
  - ALL PROPOSED UNDERPASS LIGHTING UNITS SHOWN ON THIS DRAWING WILL BE FED FROM EXISTING IDOT LIGHTING CONTROLLER "Z".
  - THE REMOVAL OF EXISTING UNDERPASS LUMINAIRES MUST INCLUDE THE REMOVAL OF ALL CABLES, CONDUIT, JUNCTION BOXES, AND HARDWARE ASSOCIATED WITH THE EXISTING UNDERPASS LIGHTING. COST FOR THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED AS PART OF THE "REMOVAL OF LIGHTING UNITS, SALVAGE" PAY ITEM.
  - PROVIDE TERMINAL BLOCKS AND 30A FUSES IN THE JUNCTION BOX FOR SPLICING THE NO. 10 UNDERPASS LIGHTING WIRES TO THE NO. 2 LIGHTING CIRCUITS WIRES. SEE DRAWING E-21 FOR TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM.



**PROPOSED UNDERPASS LIGHTING PLAN**  
NOTE 5

UNDERPASS LUMINAIRE TABLE (CONTROLLER 'Z')				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
ZN3	RAMP EN	STA. 1610+03.3, 18.7 LT	NOTE 3	SUSPENDED
ZM3	RAMP EN	STA. 1610+50.8, 18.7 LT	NOTE 3	SUSPENDED
ZN4	RAMP EN	STA. 1610+38.0, 16.7 RT	NOTE 3	SUSPENDED
ZM4	RAMP EN	STA. 1609+95.4, 16.7 RT	NOTE 3	SUSPENDED

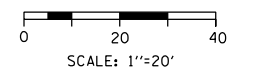
NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	3-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	2-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	2-1/C#10, 1-1/C#10 GND IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT (CKTS AS INDICATED ON THIS DRAWING)
4	3-1/C#2, 1-1/C#4 GND IN 3" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

UNDERPASS LUMINAIRE TABLE (CONTROLLER 'Z')				
LUMINAIRE	BASELINE	STATION & OFFSET	NOTES	MOUNTING
ZN1	RAMP EN	STA. 1608+44.6, 18.7 LT	NOTE 3	SUSPENDED
ZM1	RAMP EN	STA. 1608+89.9, 18.7 LT	NOTE 3	SUSPENDED
ZN2	RAMP EN	STA. 1608+85.7, 16.7 RT	NOTE 3	SUSPENDED
ZM2	RAMP EN	STA. 1608+45.0, 16.7 RT	NOTE 3	SUSPENDED

NOTE: CENTERING THE UNDERPASS LUMINAIRES BETWEEN THE STRUCTURAL BEAMS TAKES PRECEDENCE OVER THE STATION AND OFFSET PROVIDED IN THE TABLE.



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D160X79-sh-Light-16  
USER NAME = myersc  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 7/26/2018

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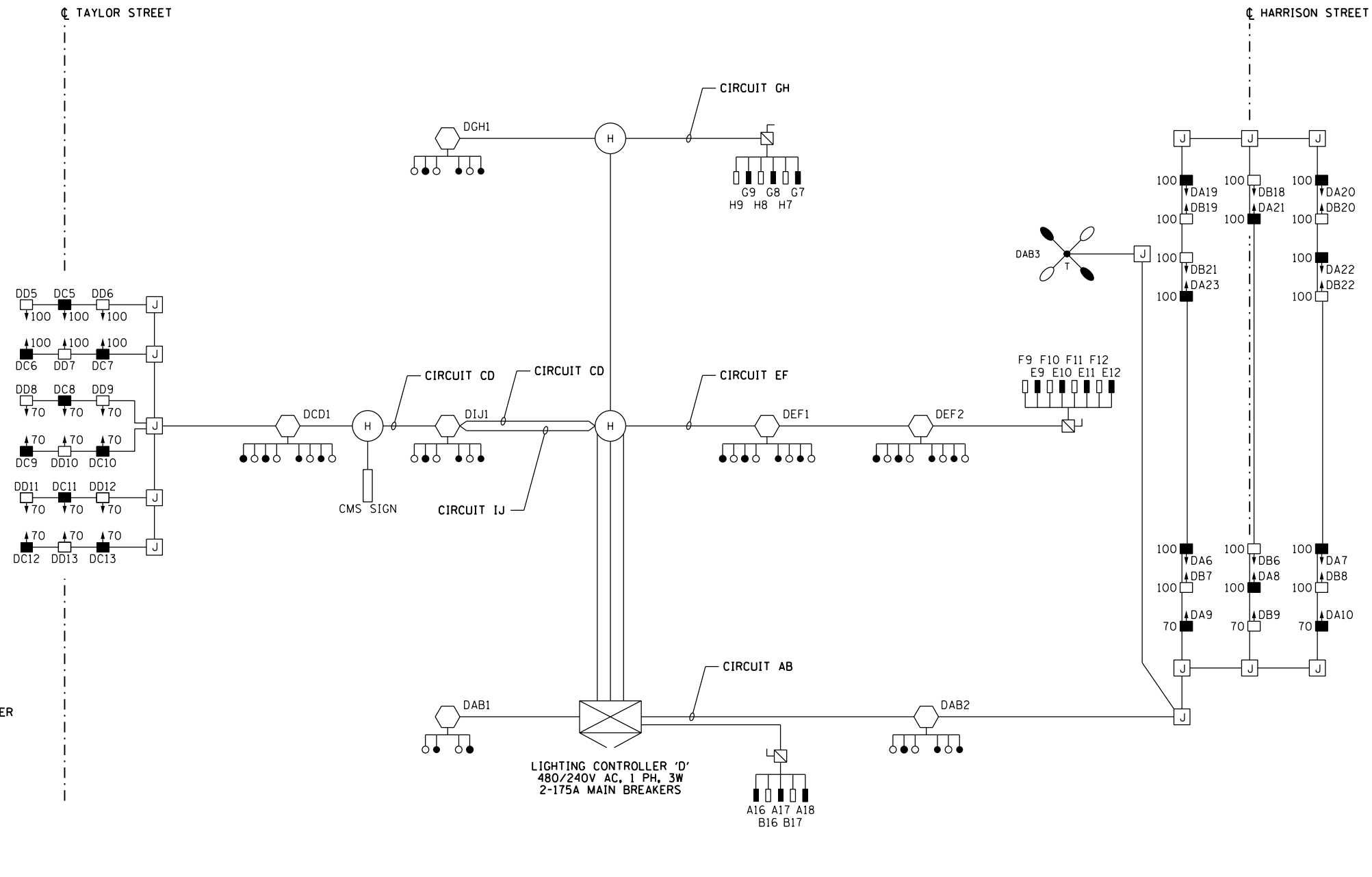
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS LIGHTING PLAN  
RAMP EN**











SCALE: 1"=20' SHEET 16 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	366
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

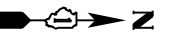
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**SYMBOLS LEGEND**

-  IDOT LIGHTING CONTROLLER
-  HANDHOLE
-  JUNCTION BOX
-  HANDHOLE
-  CMS SIGN
-  UNDERPASS LIGHTING UNIT  
55 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  HIGH MAST LIGHT TOWER  
400 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  LIGHTED OVERHEAD SIGN STRUCTURE  
WITH 170 WATT FLUORESCENT  
LUMINAIRES, QUANTITY OF  
LUMINAIRES AS REQUIRED  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  UNDERPASS LIGHTING UNIT  
70 OR 100 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  TEMPORARY LIGHTING UNIT  
WITH 400 WATT HPS LUMINAIRES  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)

LOAD TABLE LIGHTING CONTROLLER "D"					
CIRCUIT	BLACK PHASE		RED PHASE		
	AMPS	WATTS	AMPS	WATTS	
A	20.54	4930	B	19.61	4706
C	24.58	5899	D	24.08	5779
E	17.2	4128	F	17.2	4128
G	13.35	3204	H	13.35	3204
I	5.7	1368	J	5.7	1368
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
TOTAL	81.4	19,529	TOTAL	79.9	19,186



DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

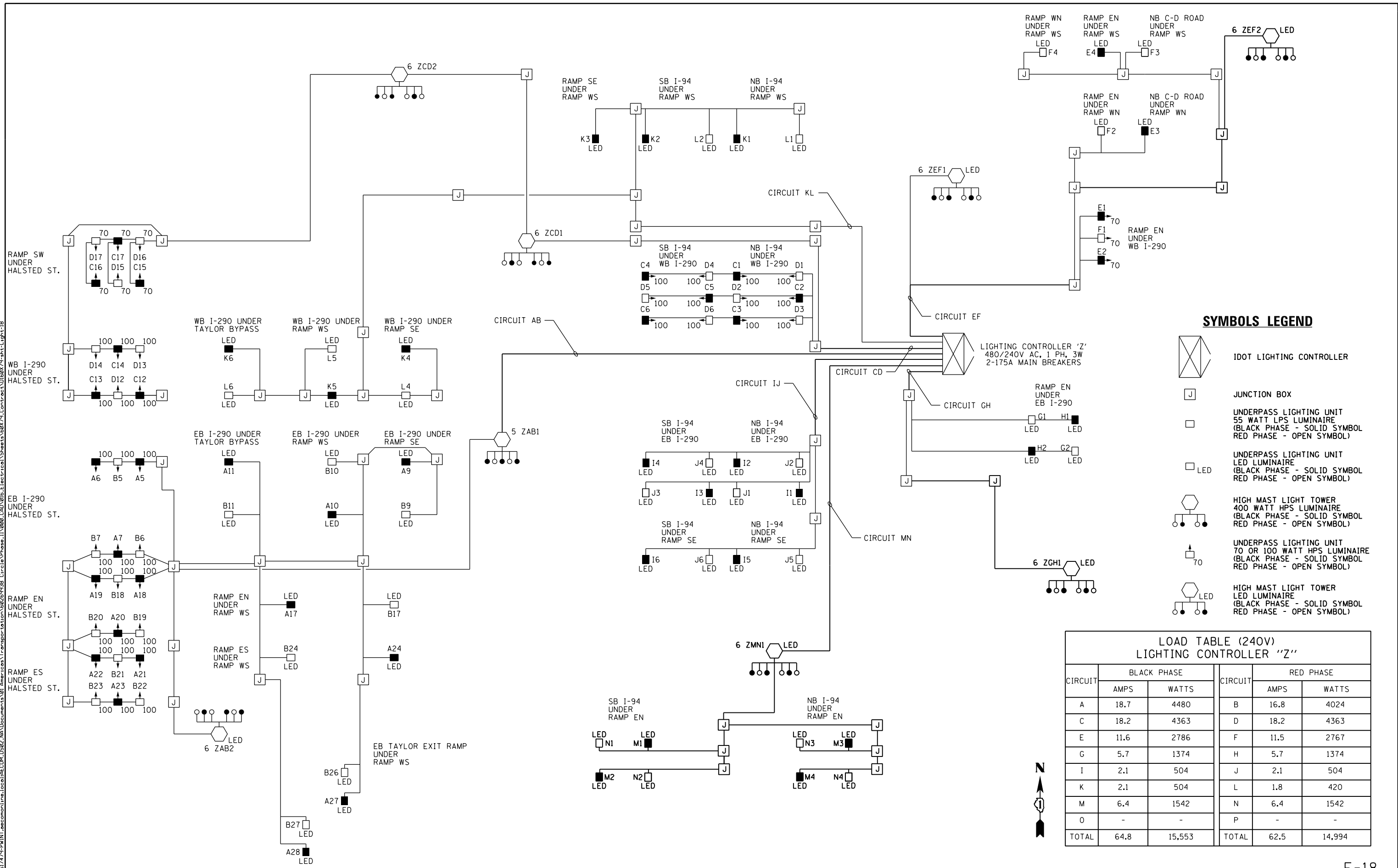
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER 'D'  
WIRING DIAGRAM

SCALE: N.T.S. SHEET 17 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	367
				CONTRACT NO. 60X79
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\61779-P\MINT\pawson\line\local\IACOM\DS92\_MN\Documents\01\_Americos\T\engor\station\60269438\_Circle\Phase\_1\1000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-18



### SYMBOLS LEGEND

	IDOT LIGHTING CONTROLLER
	JUNCTION BOX
	UNDERPASS LIGHTING UNIT 55 WATT LPS LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)
	UNDERPASS LIGHTING UNIT LED LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)
	HIGH MAST LIGHT TOWER 400 WATT HPS LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)
	UNDERPASS LIGHTING UNIT 70 OR 100 WATT HPS LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)
	HIGH MAST LIGHT TOWER LED LUMINAIRE (BLACK PHASE - SOLID SYMBOL RED PHASE - OPEN SYMBOL)

### LOAD TABLE (240V) LIGHTING CONTROLLER "Z"

CIRCUIT	BLACK PHASE		RED PHASE		
	AMPS	WATTS	AMPS	WATTS	
A	18.7	4480	B	16.8	4024
C	18.2	4363	D	18.2	4363
E	11.6	2786	F	11.5	2767
G	5.7	1374	H	5.7	1374
I	2.1	504	J	2.1	504
K	2.1	504	L	1.8	420
M	6.4	1542	N	6.4	1542
O	-	-	P	-	-
TOTAL	64.8	15,553	TOTAL	62.5	14,994



D160X79-sht-Light-18  
 USER NAME = myersc  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -







STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER 'Z'  
 WIRING DIAGRAM

SCALE: N.T.S. SHEET 18 OF 37 SHEETS STA. TO STA.

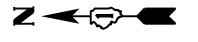
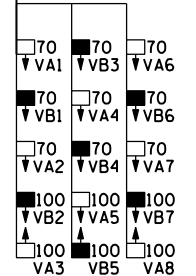
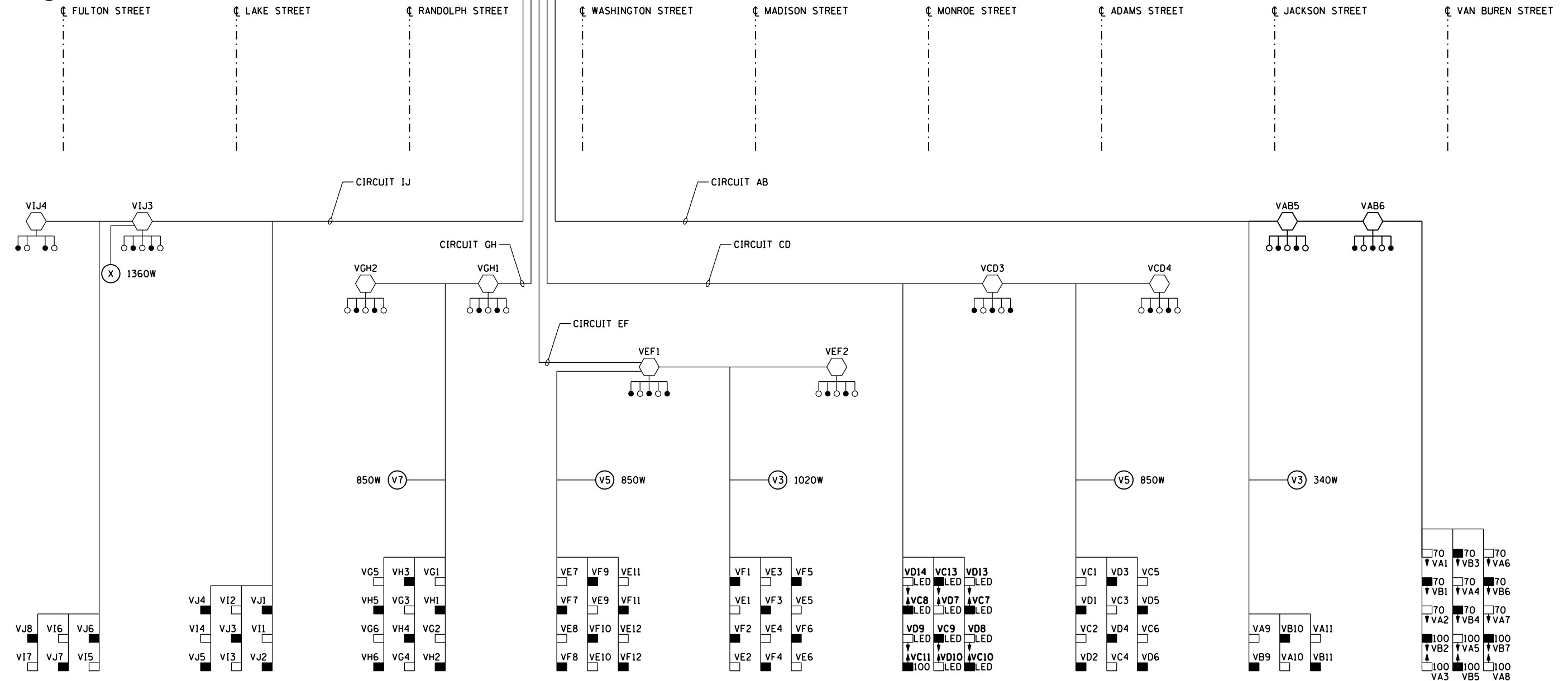
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	368
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

**SYMBOLS LEGEND**

-  IDOT LIGHTING CONTROLLER
-  HIGH MAST LIGHT TOWER  
400 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  UNDERPASS LIGHTING UNIT  
55 WATT LPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  UNDERPASS LIGHTING UNIT  
70 OR 100 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  UNDERPASS LIGHTING UNIT  
LED LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL)
-  EXISTING SIGN STRUCTURE

LIGHTING CONTROLLER 'V'  
240/480, 1 PHASE, 3 WIRE  
(2)-175A, 2-POLE MAIN BREAKERS  
(2)-200A, 2-POLE CONTACTORS  
(16)-70A, 1-POLE, BRANCH BREAKERS

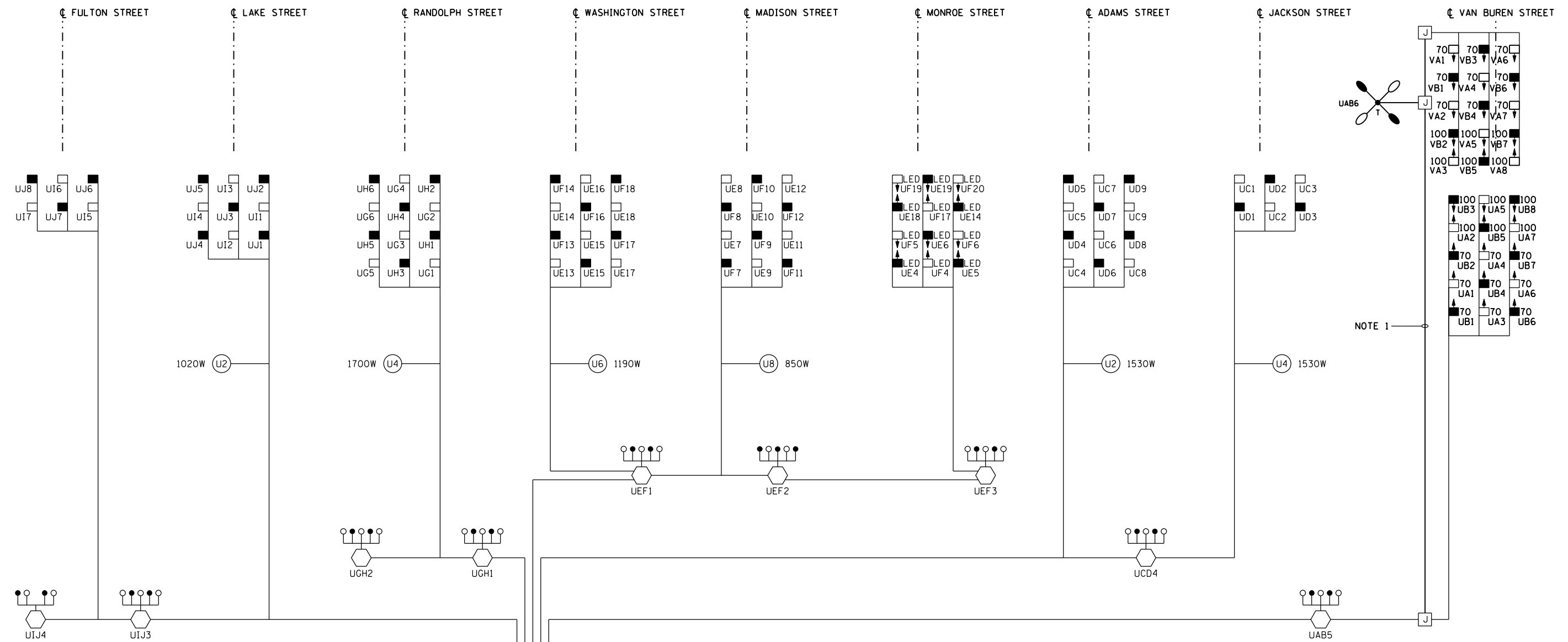
LOAD TABLE LIGHTING CONTROLLER "V"					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	13.6	3274	B	11.7	2818
C	22.9	5491	D	22.9	5491
E	28.2	6758	F	28.2	6758
G	27.9	6703	H	24.1	5791
I	20.9	5027	J	20.3	4866
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
TOTAL	114.0	27356	TOTAL	107.2	25724











E-19

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**SYMBOLS LEGEND**

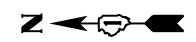
-  IDOT LIGHTING CONTROLLER
-  HIGH MAST LIGHT TOWER  
400 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL)  
RED PHASE - OPEN SYMBOL
-  JUNCTION BOX
-  UNDERPASS LIGHTING UNIT  
55 WATT LPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL)  
RED PHASE - OPEN SYMBOL
-  UNDERPASS LIGHTING UNIT  
70 OR 100 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL)  
RED PHASE - OPEN SYMBOL
-  UNDERPASS LIGHTING UNIT  
LED LUMINAIRE - SOLID SYMBOL  
RED PHASE - OPEN SYMBOL
-  EXISTING SIGN STRUCTURE
-  TEMPORARY LIGHTING UNIT  
WITH 400 WATT HPS LUMINAIRE  
(BLACK PHASE - SOLID SYMBOL)  
RED PHASE - OPEN SYMBOL

LIGHTING CONTROLLER 'U'  
240/480, 1 PHASE, 3 WIRE  
(2)-175A, 2-POLE MAIN BREAKERS  
(2)-200A, 2-POLE CONTACTORS  
(16)-70A, 1-POLE, BRANCH BREAKERS

**LOAD TABLE  
LIGHTING CONTROLLER "U"**

CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	11.4	2736	B	10.2	2448
C	23.2	5555	D	21.3	5099
E	36.0	8630	F	34.1	8174
G	18.8	4507	H	15.0	3595
I	21.6	5186	J	20.9	5026
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
<b>TOTAL</b>	<b>110.9</b>	<b>26615</b>	<b>TOTAL</b>	<b>101.9</b>	<b>24445</b>

- NOTES:**
1. THE TEMPORARY CONNECTION SHALL BE REMOVED ONCE PROPOSED HIGH MAST LIGHT TOWER 5 VAB5 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY IDOT. SEE DRAWING E-15 FOR REMOVAL.



D160X79-sht-Light-20	DESIGNED - TJL	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

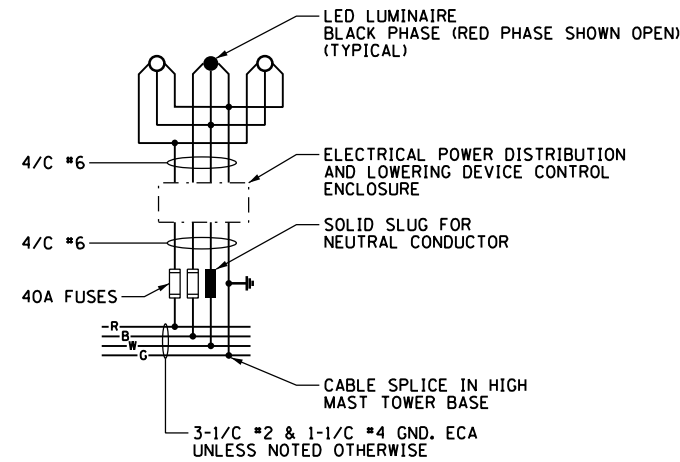
<b>IDOT LIGHTING CONTROLLER 'U' WIRING DIAGRAM</b>		
SCALE: N.T.S.	SHEET 20 OF 37 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	370
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

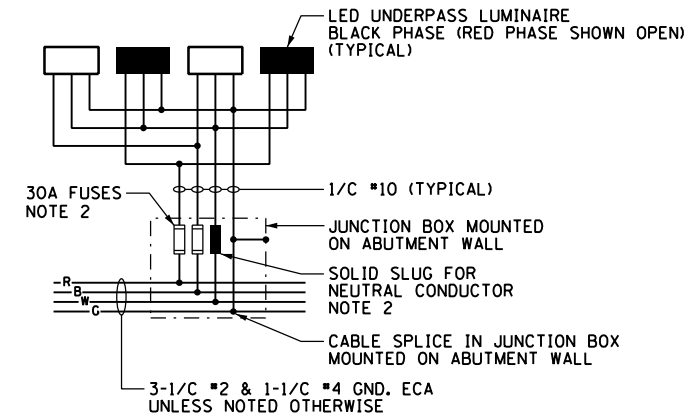


### HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE

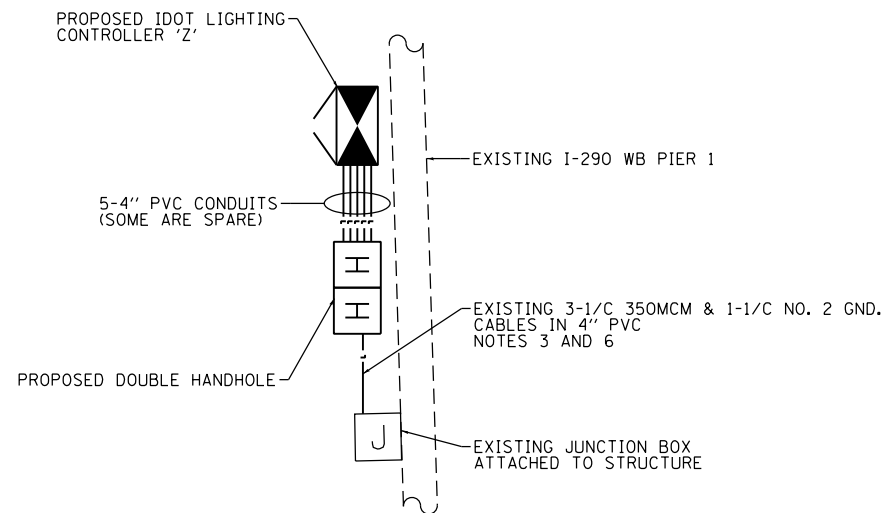
HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER FOUNDATION LOCATION			HIGH MAST LIGHT TOWER FOUNDATION ELEVATIONS			HIGH MAST TOWER HEIGHT	REMARKS AND NOTES
	STATION	OFFSET	BASELINE	TOP ELEVATION	BOTTOM ELEVATION	DESIGN DEPTH (FT)		
6 ZGH1	1612+80.9	99' RT	PR RAMP EN	591.58	542.08	49.5	150'	NOTES 4 & 5
6 ZMN1	1609+69.8	119' LT	PR RAMP EN	583.15	524.15	59	150'	NOTES 4, 5 & 7
6 ZEF2	1211+94.9	83' RT	PR RAMP WS	591.98	542.48	49.5	150'	NOTES 4 & 5



TYPICAL HIGH MAST LIGHT TOWER WIRING DIAGRAM  
NOT TO SCALE



TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM  
NOT TO SCALE



DETAIL-A  
NOT TO SCALE

**NOTES:**

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.
3. A 4 INCH CONDUIT FOR THE POWER FEED FOR CONTROLLER 'Z' SHALL BE ROUTED OUT OF THE DOUBLE HANDHOLE TO THE WEST FACE OF EXISTING WB I-290 PIER 1. THE CONDUIT SHALL BE ROUTED VERTICALLY UP THE FACE OF PIER 1 TO THE EXISTING JUNCTION BOX. THE BELOW GRADE CONDUIT SHALL BE PVC AND THE CONDUIT ATTACHED TO STRUCTURE SHALL BE PVCC RIGID GALVANIZED STEEL. PROVIDE A PVC TO PVCC RGC COUPLING FOR CONNECTING THE TWO CONDUIT TYPES.
4. SEE IDOT STANDARDS BE-506 AND BE-511 FOR LIGHT TOWER FOUNDATION DETAILS.
5. THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH (D) TABLE" SHOWN ON IDOT STANDARDS BE-506 AND BE-511.
6. THE EXISTING CONTROLLER POWER FEED SHALL BE ROUTED TO THE NEW CONTROLLER.
7. DUE TO INTERIM GRADING THE FOUNDATION FOR HMLT 6 ZMN1 WILL BE ROUGHLY 7' ABOVE GRADE AT THE END OF THIS CONTRACT.

FILE PATH = p:\6179-PMINT\pcomon\line\local\AECOM\0902\_NA\Documents\01\_Americas\T-energ\station\60269938\_Circle\Phase\_1\1000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-21



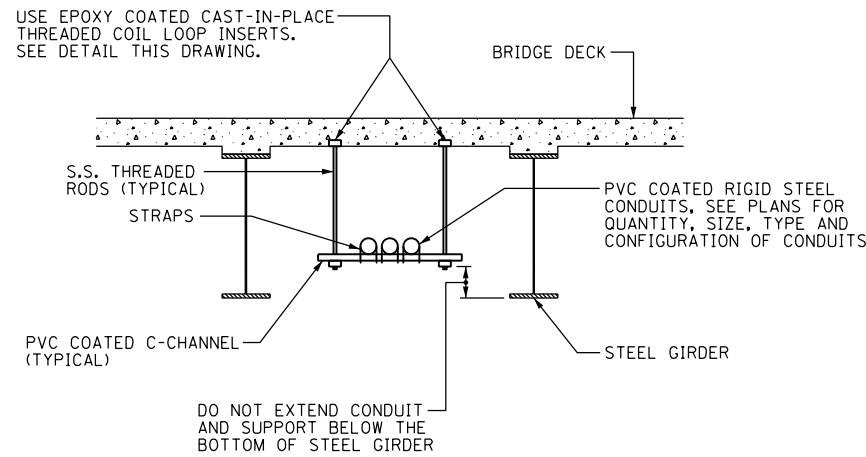
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USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL DETAILS**

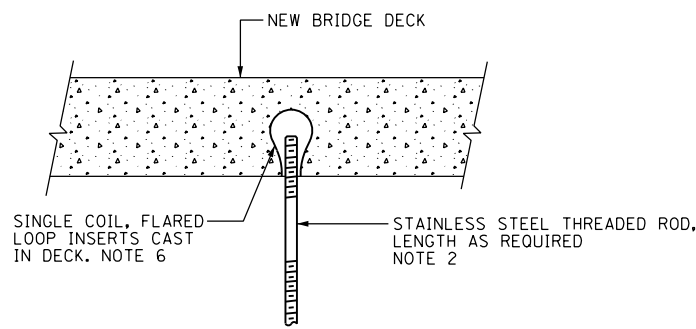
SCALE: N.T.S.    SHEET 21 OF 37 SHEETS    STA.    TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	371
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



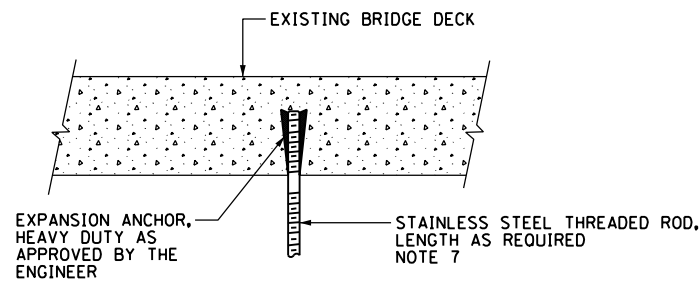
**TYPICAL CONDUIT SUPPORT ATTACHED TO BRIDGE DECK DETAIL**

SCALE: NOT TO SCALE  
NOTES 3 & 5

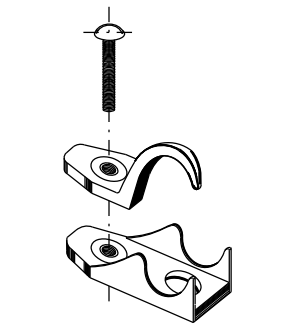


**NEW BRIDGE DECK THREADED ROD INSTALLATION ANCHOR DETAILS**

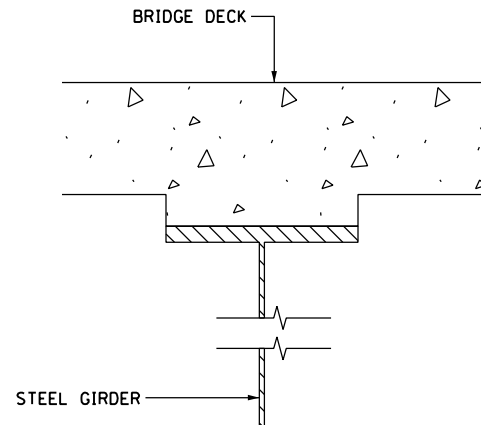
SCALE: NOT TO SCALE



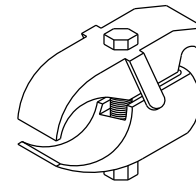
**EXISTING BRIDGE DECK THREADED ROD INSTALLATION ANCHOR DETAILS**



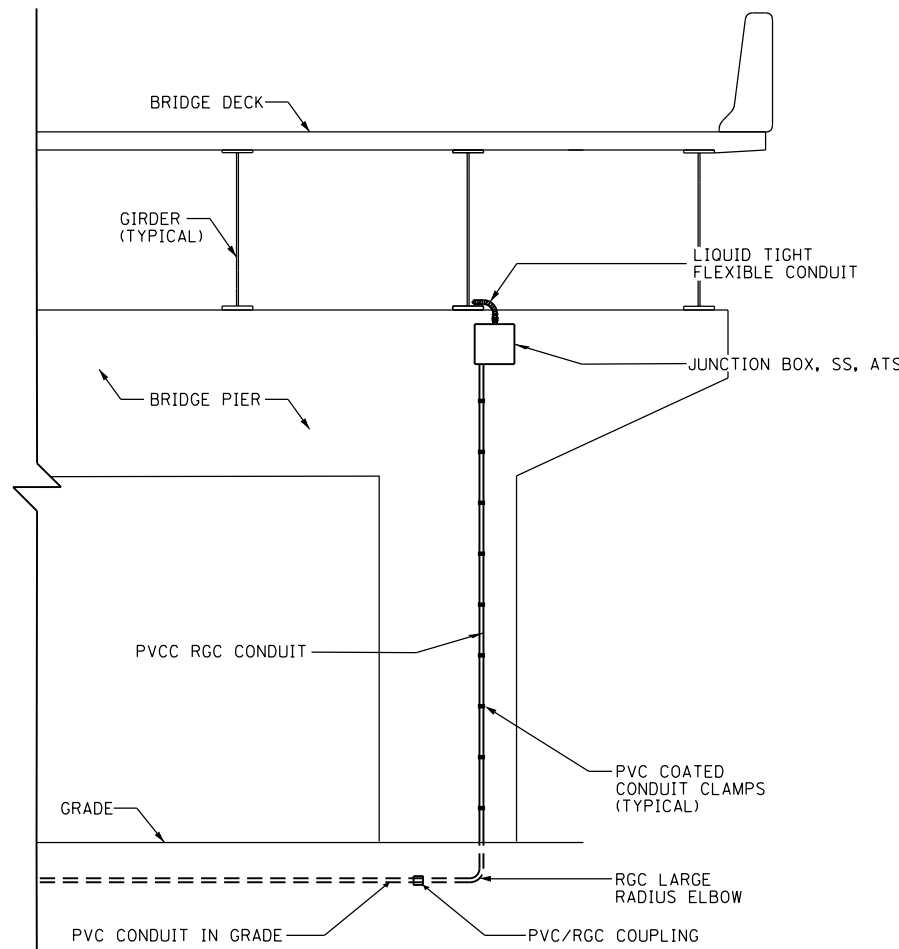
**PVC COATED CONDUIT CLAMP**  
NOT TO SCALE NOTE 7



**CONDUIT BEAM CLAMPED INSTALLATION DETAIL**



**PVC COATED CONDUIT BEAM CLAMP**  
NOT TO SCALE NOTE 7

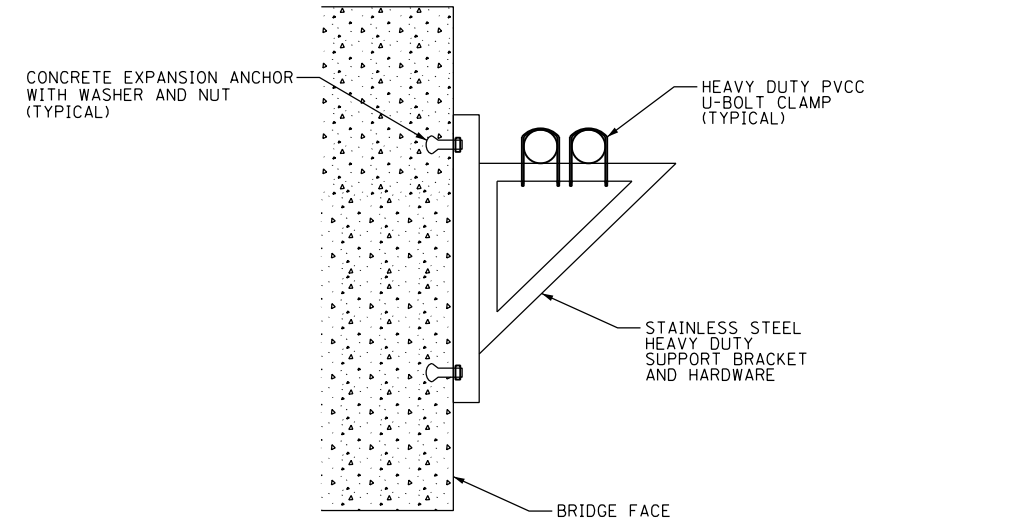


**VERTICAL CONDUIT ATTACHED TO STRUCTURE DETAIL**

NOT TO SCALE

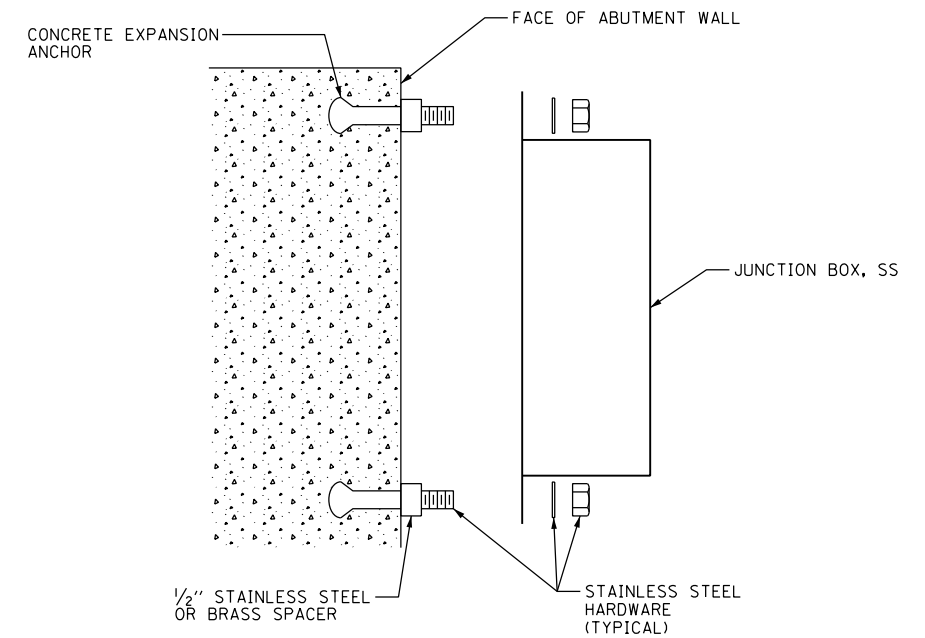
**NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUIT TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
2. THE CONTRACTOR MUST COORDINATE THREADED ROD END SIZES WITH THE C-CHANNEL AND FLARED LOOP INSERT MANUFACTURERS.
3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
4. SEE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
5. ALL MOUNTING HARDWARE FOR CONDUIT SUPPORTS AND PVCC RGC MUST BE PVC COATED.
6. THE CONTRACTOR MUST USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN PENDANT MOUNTING THREADED RODS TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE INSERT LOCATIONS IN THE FIELD AND COORDINATING ALL WORK WITH THE BRIDGE DECK CONSTRUCTION.
7. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
8. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



**MOUNTING BRACKET FOR MULTIPLE CONDUITS**

NOT TO SCALE



**JUNCTION BOX MOUNTED TO STRUCTURE**

NOT TO SCALE

FILE PATH = p:\61779-PM\INT\pccom\line\local\AECOM\_D592\_NA\Documents\01\_Americas\T\engor\ation\60269938\_Circle\Phase\_11\000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-22



D160X79-sht-Light-22  
USER NAME = myersc  
PLOT SCALE = 40.0000' / in.  
PLOT DATE = 7/26/2018

DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

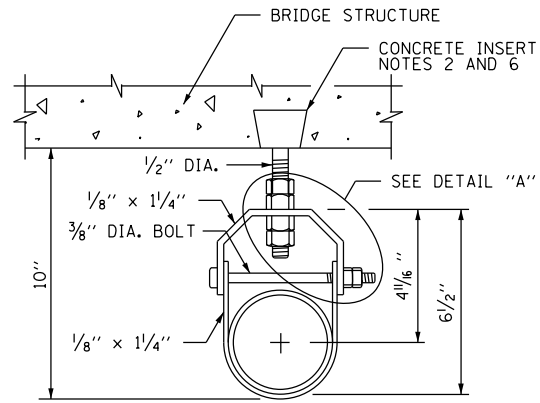
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS ELECTRICAL DETAILS**

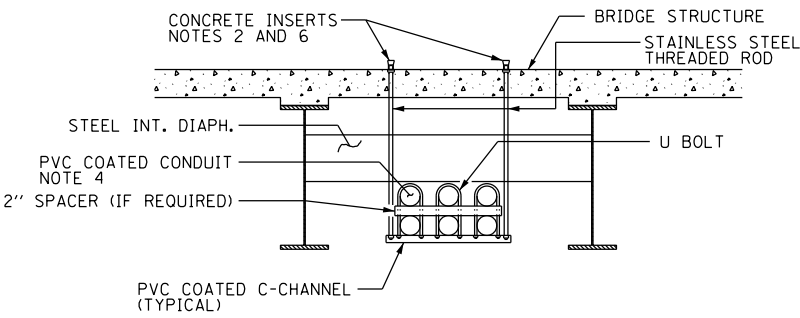
SCALE: N.T.S. SHEET 22 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	372
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\6179-PMINT\pcomon\line\local\AECOM\DS92\_MIA\Documents\01\_Americas\T\engor\station\60269438\_Circle\Phase\_11\000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-23

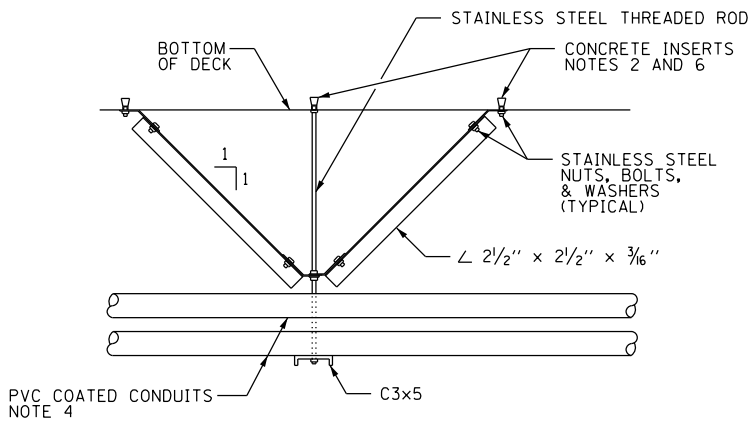


CONDUIT HANGER DETAIL



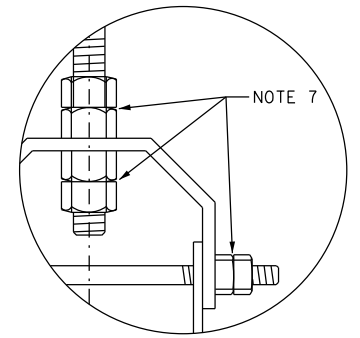
TYPICAL CONDUIT SUPPORT ATTACHED TO BRIDGE DECK WITH DIAPHRAGM DETAIL

NOTES 2 AND 3

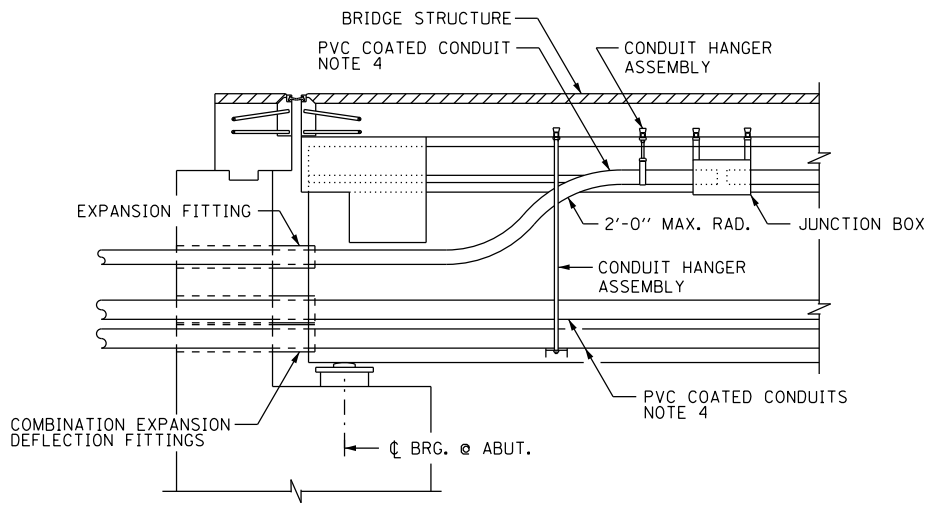


CENTERING DEVICE DETAIL - SIDE VIEW

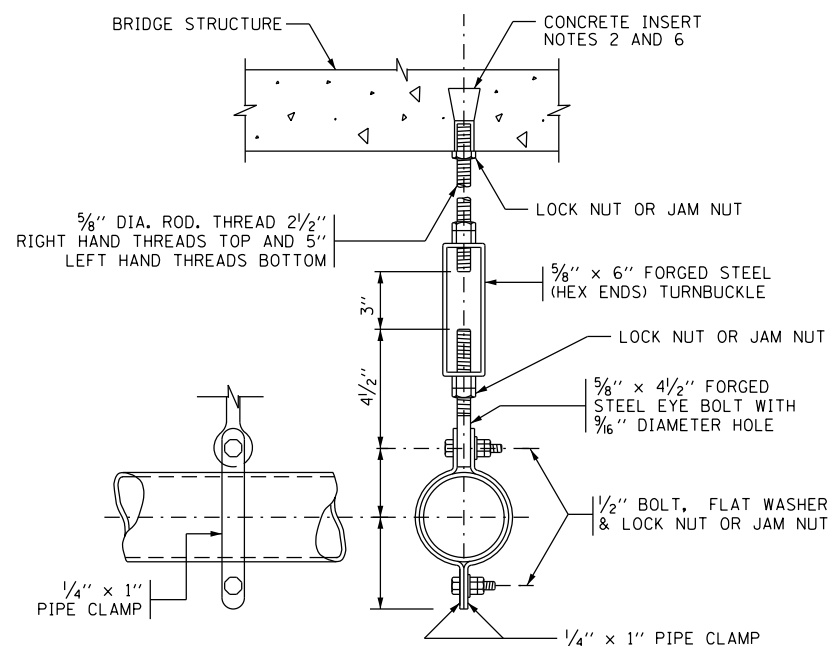
(LOCATED ONLY ON A HANGER ADJACENT TO PIER)



DETAIL "A"

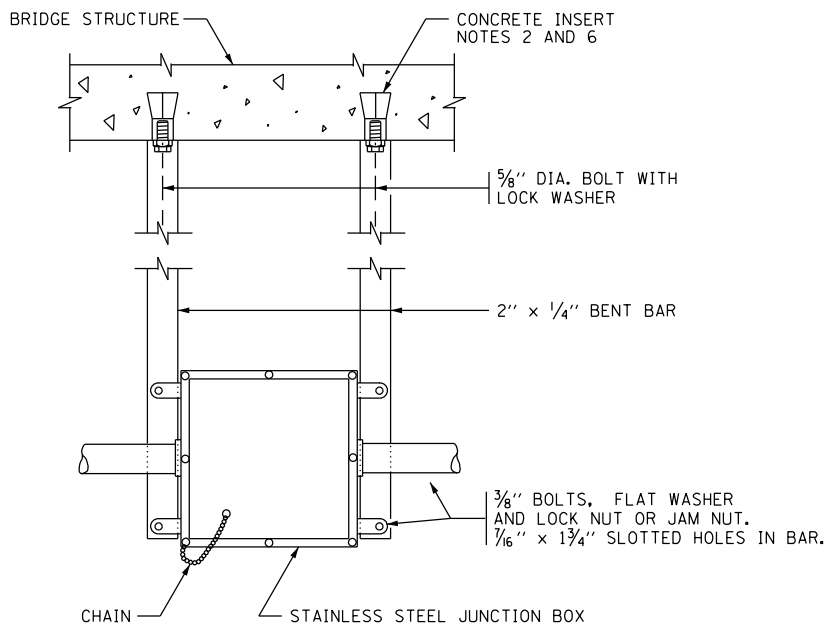


LONGITUDINAL SECTION



HANGER ASSEMBLY

EACH HANGER ASSEMBLY SHALL CONSIST OF CONCRETE INSERT, STAINLESS STEEL ROD, PIPE CLAMPS, NUTS, BOLTS, WASHERS, TURNBUCKLE AND EYE BOLT



JUNCTION BOX SUSPENDED FROM STRUCTURE DETAILS

NOTE 5

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS AND METHODS FOR ATTACHING CONDUITS AND JUNCTION BOXES TO A STRUCTURE. ALL WORK REQUIRED TO ATTACH CONDUITS TO STRUCTURES MUST COMPLY WITH SECTION 811 OF THE STANDARD SPECIFICATIONS AND ALL MATERIALS MUST COMPLY WITH SECTION 1088 OF THE STANDARD SPECIFICATIONS.
2. SEE DRAWING E-22 FOR ADDITIONAL CONDUIT MOUNTING DETAILS AND FOR DETAILS REGARDING THE INSTALLATION OF CONCRETE INSERTS.
3. THE CONDUIT SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "CONDUIT ATTACHED TO STRUCTURE" PAY ITEM.
4. SEE THE PLAN DRAWINGS FOR THE PROPOSED CONDUIT ROUTING.
5. THE JUNCTION BOX SUPPORT SYSTEM ATTACHED TO THE BRIDGE STRUCTURE, INCLUDING THE CONCRETE INSERTS AND ALL MOUNTING HARDWARE, WILL NOT BE PAID FOR SEPARATELY, AND SHALL BE INCLUDED IN THE COST FOR THE "JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE" PAY ITEM.
6. SPACE INSERTS AT 10 FOOT (MAXIMUM) CENTERS.
7. PROVIDE STAINLESS STEEL DOUBLE NUTS, JAM NUTS OR LOCK NUTS FOR THIS INSTALLATION.
8. PROVIDE CONDUIT SLEEVES IN THE BRIDGE ABUTMENT AS REQUIRED TO ROUTE THE CONDUITS THROUGH THE STRUCTURE AS SHOWN. THE DIAMETER OF THE SLEEVES SHALL BE A MINIMUM OF 2 INCHES LARGER IN DIAMETER THAN THE DIAMETER OF THE CONDUIT. PROVIDE WATERPROOF SEALANT IN THE INTERSTITIAL SPACE BETWEEN THE SLEEVE AND THE CONDUIT.



D160X79-sht-Light-23  
 USER NAME = myersc  
 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

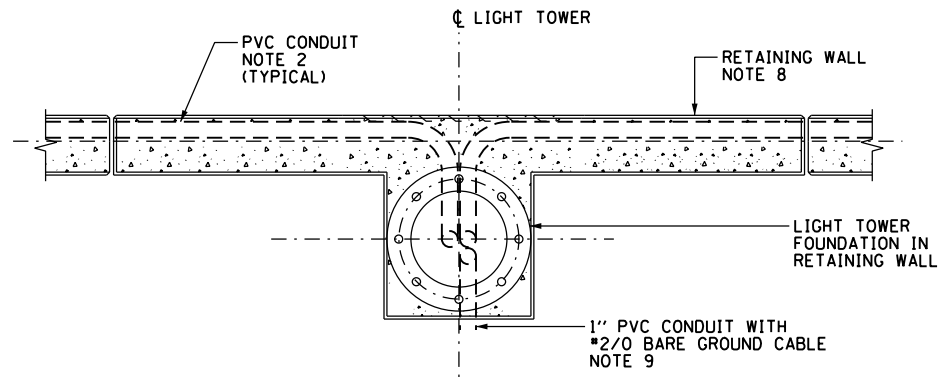
REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

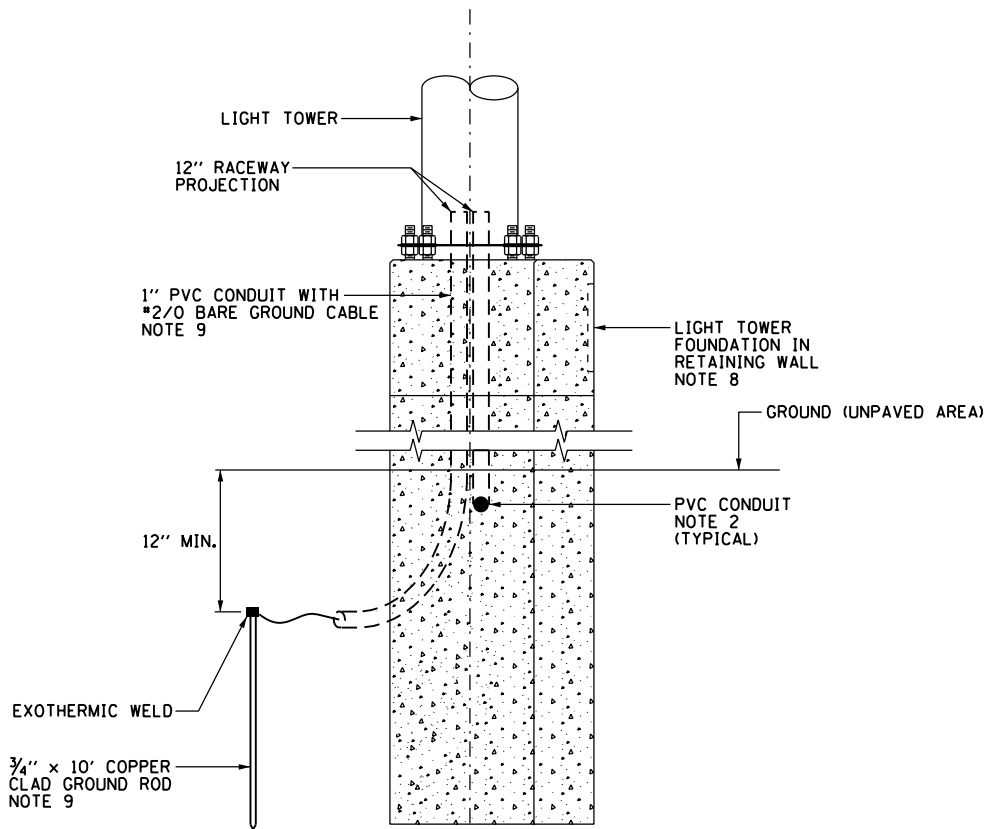
MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. SHEET 23 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	373
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

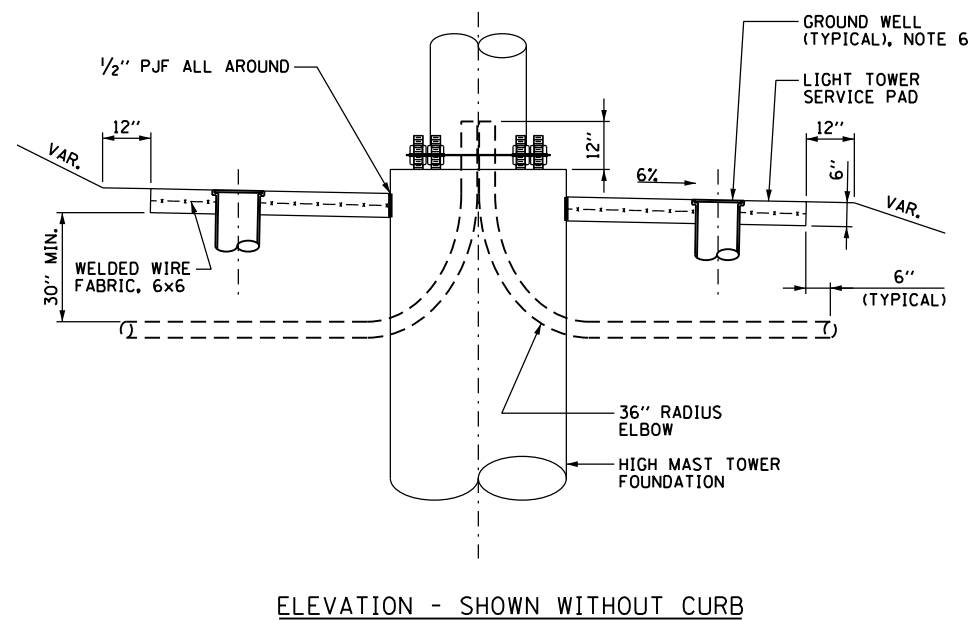
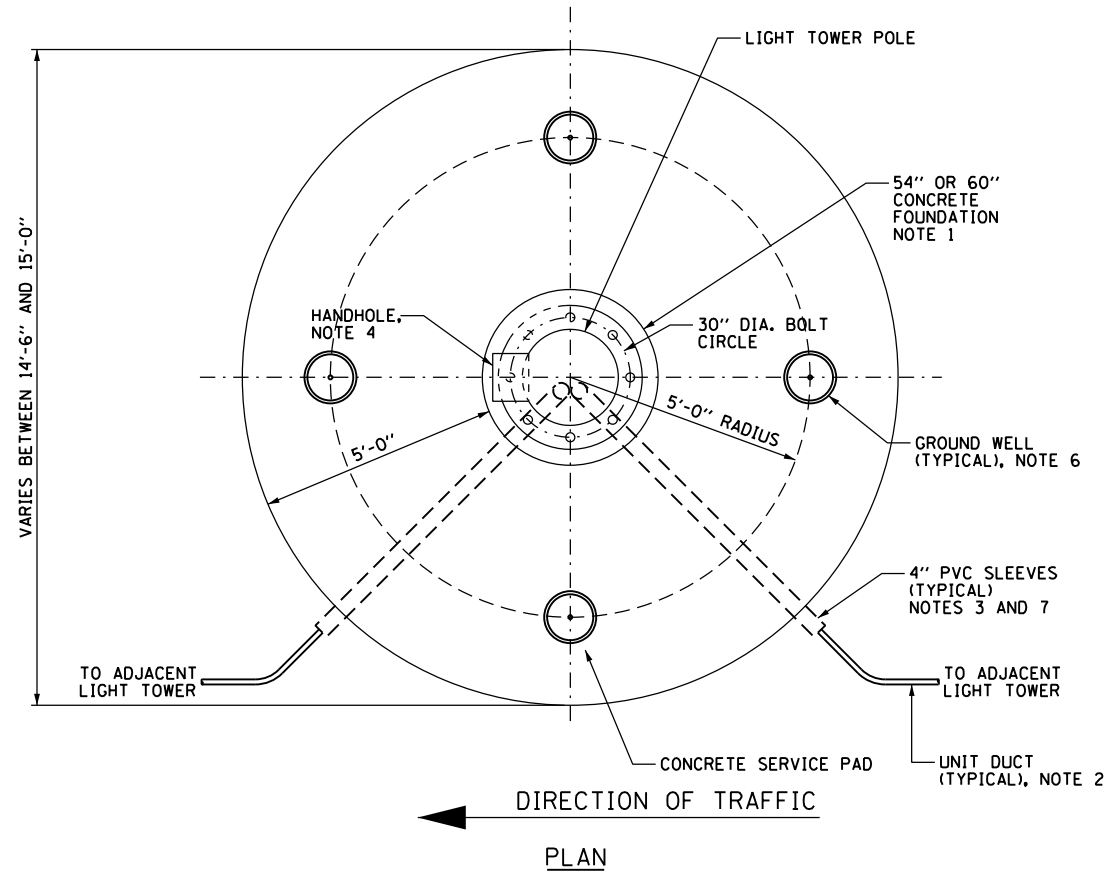


TOP VIEW



SIDE ELEVATION VIEW

CONDUIT INSTALLATION DETAIL FOR HIGH MAST LIGHT TOWER FOUNDATION IN RETAINING WALL  
NOT TO SCALE



GROUND MOUNTED HIGH MAST TOWER SERVICE PAD, GROUNDING AND CONDUIT INSTALLATION DETAILS  
NOT TO SCALE

NOTES:

- SEE IDOT STANDARD DRAWING BE-506 FOR ADDITIONAL HIGH MAST LIGHT TOWER FOUNDATION AND GROUND WELL DETAILS.
- SEE ELECTRICAL PLAN DRAWINGS FOR QUANTITY, SIZE, AND TYPE OF RACEWAY AND LIGHTING CIRCUITS ROUTED TO EACH HIGH MAST LIGHT TOWER FOUNDATION.
- PVC SLEEVES MUST BE EXTENDED 6 INCHES BEYOND THE EDGE OF THE CONCRETE PAD.
- THE HANDHOLE FOR THE HIGH MAST LIGHTING UNIT MUST BE ORIENTED SUCH THAT IT IS MOUNTED ON THE SIDE OF THE POLE THAT IS OPPOSITE THE DIRECTION OF TRAFFIC.
- ALL EMPTY SLEEVES MUST BE CAPPED UNLESS NOTED OTHERWISE ON THE PLANS.
- INSTALL GROUND WELLS 5'-0" AS MEASURED FROM THE CENTER LINE OF THE HIGH MAST TOWER TO THE CENTER LINE OF THE WELL.
- PVC CONDUIT SLEEVES SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- SEE STRUCTURAL PLANS FOR THE FOUNDATION INSTALLATION DESIGN DETAILS.
- ALL NECESSARY WORK AND MATERIALS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

FILE PATH = p:\61779-P\MINT\pacom\line\local\AECOM\0502\0502\0502\0502\Phase 1\1000\_CAD\016\_Electrical\Sheets\60X79\_sht-Light-24



D160X79-sht-Light-24  
USER NAME = myersc  
PLOT SCALE = 2.0000' / in.  
PLOT DATE = 7/26/2018

DESIGNED - TJL  
DRAWN - CAM  
CHECKED - WDS  
DATE - 7-30-2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER SERVICE PAD AND CONDUIT DETAILS

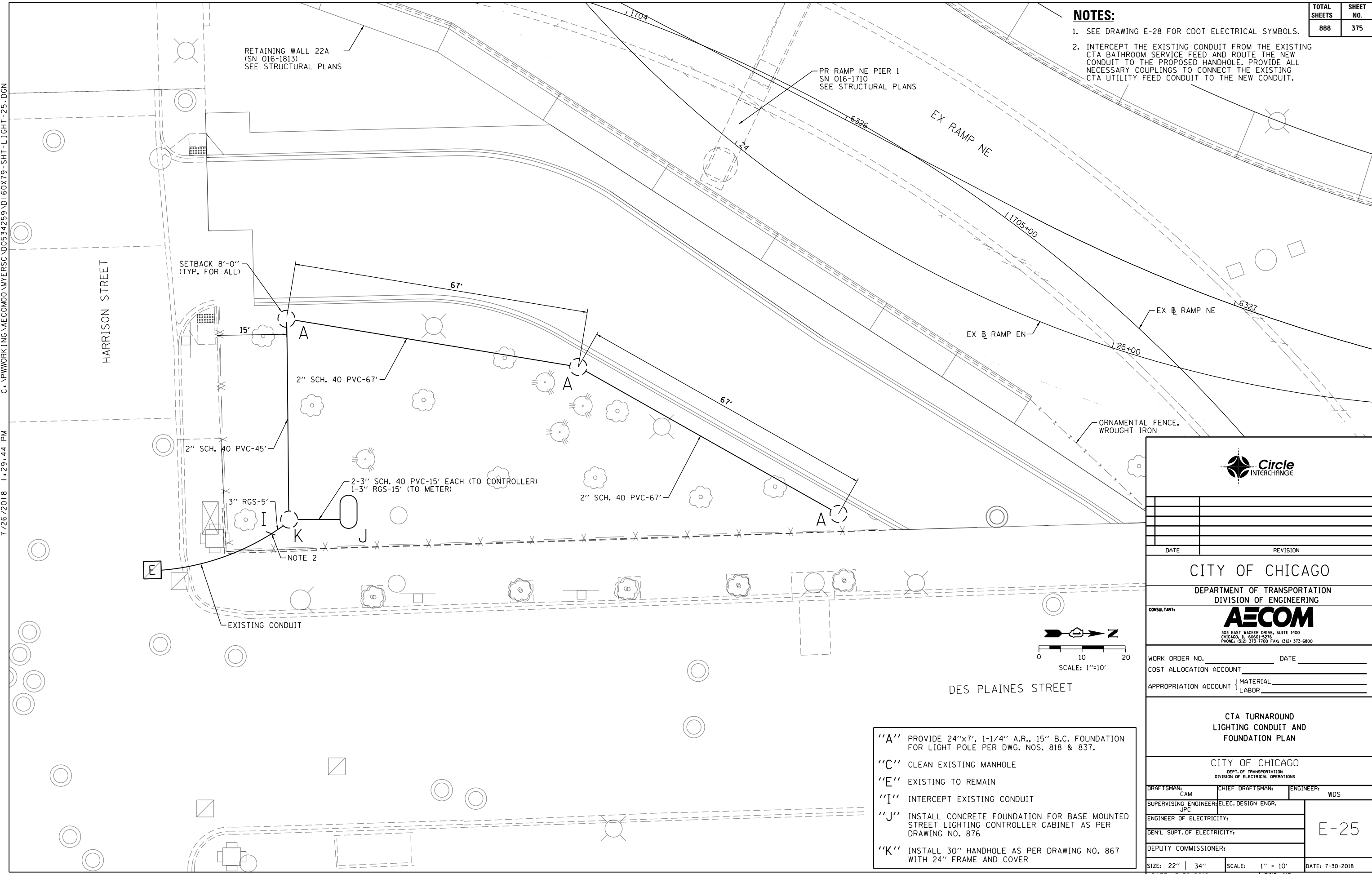
SCALE: N.T.S. SHEET 24 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	374
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

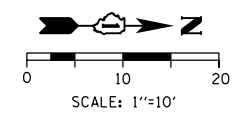
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7/26/2018 1:29:44 PM

TOTAL SHEETS	SHEET NO.
888	375

- NOTES:**
- SEE DRAWING E-28 FOR CDOT ELECTRICAL SYMBOLS.
  - INTERCEPT THE EXISTING CONDUIT FROM THE EXISTING CTA BATHROOM SERVICE FEED AND ROUTE THE NEW CONDUIT TO THE PROPOSED HANDHOLE. PROVIDE ALL NECESSARY COUPLINGS TO CONNECT THE EXISTING CTA UTILITY FEED CONDUIT TO THE NEW CONDUIT.



DATE	REVISION
<b>CITY OF CHICAGO</b>	
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING	
CONSULTANT:	
<b>AECOM</b>	
303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	
WORK ORDER NO. _____	DATE _____
COST ALLOCATION ACCOUNT _____	
APPROPRIATION ACCOUNT _____	MATERIAL _____
	LABOR _____

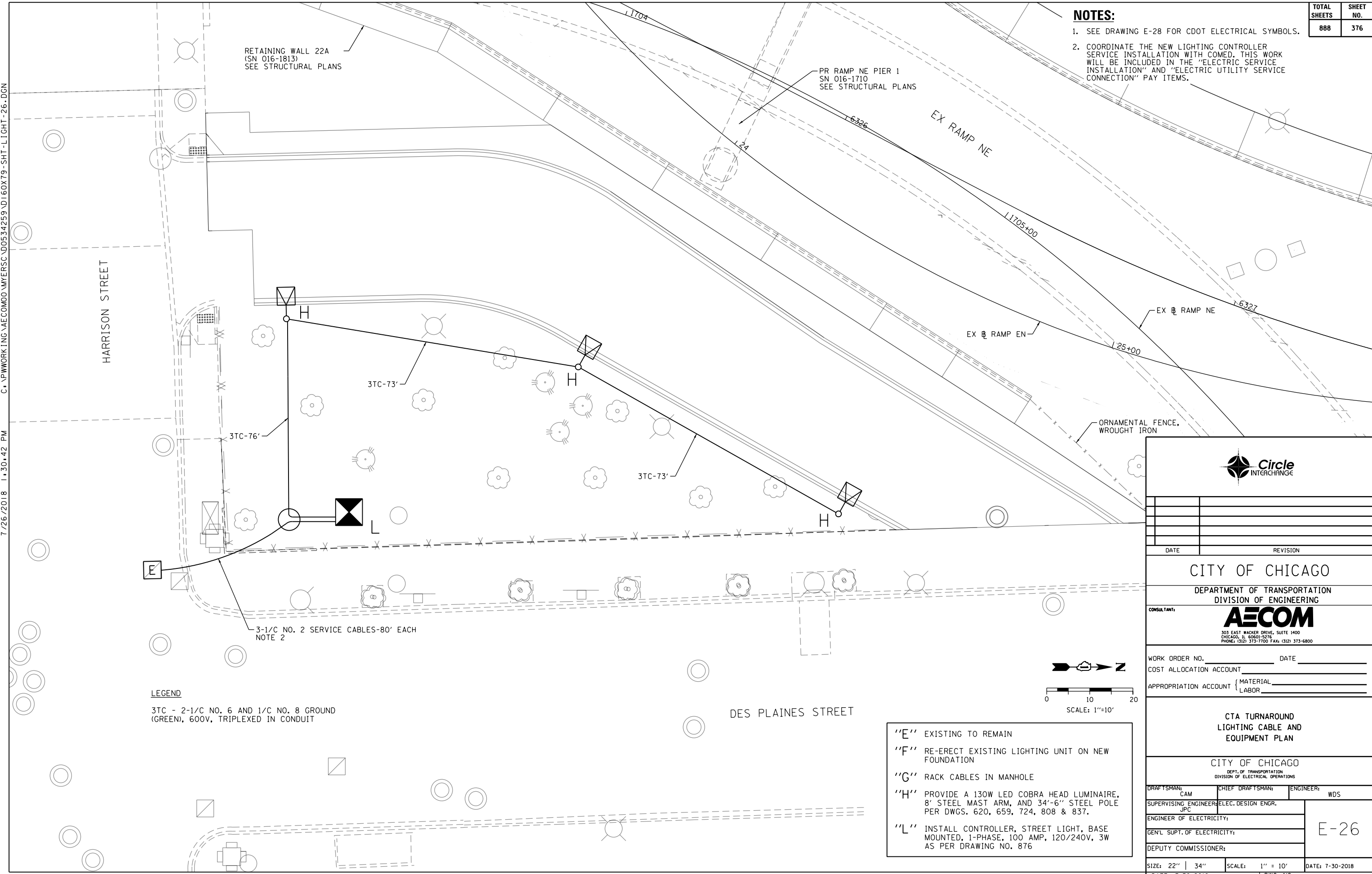


- "A" PROVIDE 24"x7', 1-1/4" A.R., 15" B.C. FOUNDATION FOR LIGHT POLE PER DWG. NOS. 818 & 837.
- "C" CLEAN EXISTING MANHOLE
- "E" EXISTING TO REMAIN
- "I" INTERCEPT EXISTING CONDUIT
- "J" INSTALL CONCRETE FOUNDATION FOR BASE MOUNTED STREET LIGHTING CONTROLLER CABINET AS PER DRAWING NO. 876
- "K" INSTALL 30" HANDHOLE AS PER DRAWING NO. 867 WITH 24" FRAME AND COVER

<b>CTA TURNAROUND LIGHTING CONDUIT AND FOUNDATION PLAN</b>	
CITY OF CHICAGO DEPT. OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN: CAM	CHIEF DRAFTSMAN: WDS
SUPERVISING ENGINEER: JPC	ELEC. DESIGN ENGR.
ENGINEER OF ELECTRICITY:	<b>E-25</b>
GEN'L SUPT. OF ELECTRICITY:	
DEPUTY COMMISSIONER:	
SIZE: 22"   34"	SCALE: 1" = 10'
DATE: 7-30-2018	DATE: 7-30-2018
C.D.O.T. PROJECT NO.:	DWG. NO.: 25 OF 37

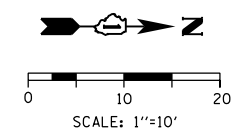
- NOTES:**
- SEE DRAWING E-28 FOR CDOT ELECTRICAL SYMBOLS.
  - COORDINATE THE NEW LIGHTING CONTROLLER SERVICE INSTALLATION WITH COMED. THIS WORK WILL BE INCLUDED IN THE "ELECTRIC SERVICE INSTALLATION" AND "ELECTRIC UTILITY SERVICE CONNECTION" PAY ITEMS.

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**LEGEND**  
 3TC - 2-1/C NO. 6 AND 1/C NO. 8 GROUND (GREEN), 600V, TRIPLEXED IN CONDUIT

- "E" EXISTING TO REMAIN
- "F" RE-ERECT EXISTING LIGHTING UNIT ON NEW FOUNDATION
- "G" RACK CABLES IN MANHOLE
- "H" PROVIDE A 130W LED COBRA HEAD LUMINAIRE, 8' STEEL MAST ARM, AND 34'-6" STEEL POLE PER DWGS. 620, 659, 724, 808 & 837.
- "L" INSTALL CONTROLLER, STREET LIGHT, BASE MOUNTED, 1-PHASE, 100 AMP, 120/240V, 3W AS PER DRAWING NO. 876



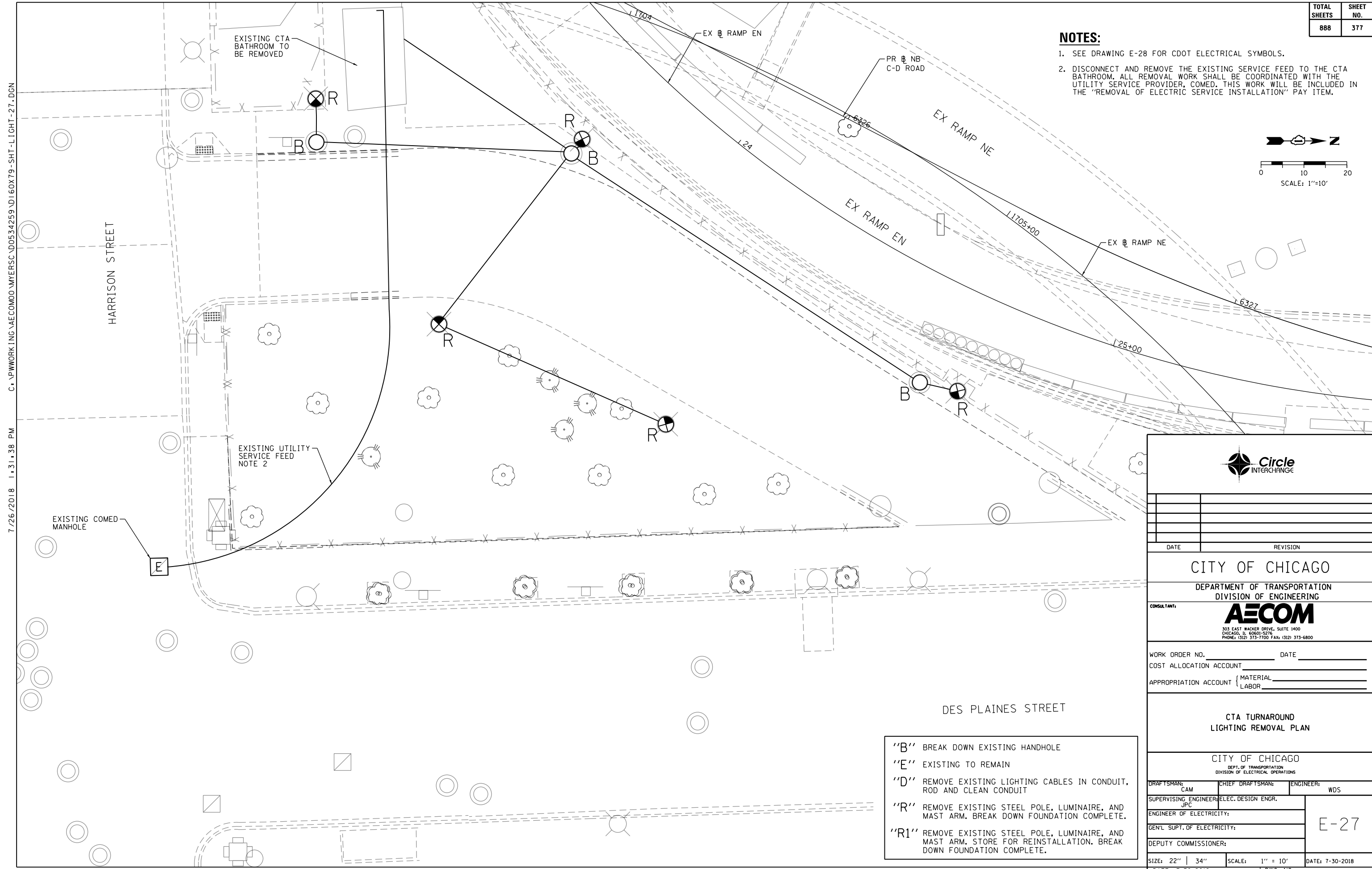
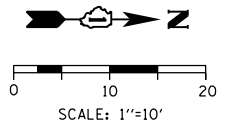
DATE: _____ REVISION: _____	
<b>CITY OF CHICAGO</b>	
DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING	
CONSULTANT: <b>AECOM</b> <small>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800</small>	
WORK ORDER NO. _____	DATE _____
COST ALLOCATION ACCOUNT _____	
APPROPRIATION ACCOUNT _____	MATERIAL _____ LABOR _____
<b>CTA TURNAROUND LIGHTING CABLE AND EQUIPMENT PLAN</b>	
CITY OF CHICAGO DEPT. OF TRANSPORTATION DIVISION OF ELECTRICAL OPERATIONS	
DRAFTSMAN: CAM	ENGINEER: WDS
SUPERVISING ENGINEER: JPC	ELEC. DESIGN ENGR.
ENGINEER OF ELECTRICITY: _____	
GEN'L SUPT. OF ELECTRICITY: _____	
DEPUTY COMMISSIONER: _____	
SIZE: 22"   34"	SCALE: 1" = 10'
DATE: 7-30-2018	DATE: 7-30-2018
C.D.O.T. PROJECT NO.:	DWG. NO.: 26 OF 37

E-26



**NOTES:**

- SEE DRAWING E-28 FOR CDOT ELECTRICAL SYMBOLS.
- DISCONNECT AND REMOVE THE EXISTING SERVICE FEED TO THE CTA BATHROOM. ALL REMOVAL WORK SHALL BE COORDINATED WITH THE UTILITY SERVICE PROVIDER, COMED. THIS WORK WILL BE INCLUDED IN THE "REMOVAL OF ELECTRIC SERVICE INSTALLATION" PAY ITEM.



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7/26/2018 1:31:38 PM



DATE	REVISION

**CITY OF CHICAGO**

DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING

CONSULTANT:

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

WORK ORDER NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 COST ALLOCATION ACCOUNT \_\_\_\_\_  
 APPROPRIATION ACCOUNT MATERIAL \_\_\_\_\_  
 LABOR \_\_\_\_\_

**CTA TURNAROUND  
LIGHTING REMOVAL PLAN**

CITY OF CHICAGO  
DEPT. OF TRANSPORTATION  
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: CAM	CHIEF DRAFTSMAN: JPC	ENGINEER: WDS
SUPERVISING ENGINEER/ELEC. DESIGN ENGR. JPC		E-27
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		

- "B" BREAK DOWN EXISTING HANDHOLE
- "E" EXISTING TO REMAIN
- "D" REMOVE EXISTING LIGHTING CABLES IN CONDUIT, ROD AND CLEAN CONDUIT
- "R" REMOVE EXISTING STEEL POLE, LUMINAIRE, AND MAST ARM. BREAK DOWN FOUNDATION COMPLETE.
- "R1" REMOVE EXISTING STEEL POLE, LUMINAIRE, AND MAST ARM. STORE FOR REINSTALLATION. BREAK DOWN FOUNDATION COMPLETE.

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PROPOSED	PRESENT	DESCRIPTION
		SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL OPTICALLY PROGRAMMED
		SIGNAL, PEDESTRIAN, DON'T WALK/WALK
		SIGNAL FACE ARROW, 12" COLOR AS NOTED
		SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
		PUSH BUTTON, PEDESTRIAN
		SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
		MAST ARM, MONOTUBE, STEEL. SIZE AS INDICATED (SEE DWG. #870)
		MAST ARM, TRUSS, ALUMINUM. SIZE AS INDICATED
		CONTROLLER, TRAFFIC SIGNAL. PEDESTAL OR BASE MOUNTED AS INDICATED
		CONTROLLER, STREET LIGHTING. PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
		CONTROLLER, STREET LIGHTING. POLE MOUNTED (DWG. #11940)
		POLE, WOOD. COMMONWEALTH EDISON COMPANY, SERVICE
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA. 10" DI A. AND 15" B.C. 24"X7' FND. W/1 1/4" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"X9' FND. W/1 1/4" ANCHOR RODS DRG. #818 (16', 20' or 26' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 11" DIA. AND 17 1/4" B.C. 30"X9' FND. W/1 1/4" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12 1/2" DIA. AND 16 1/2" B.C. 30"X11' FND. W/1 1/2" ANCHOR RODS DRG. #817. (35", 40' or 44' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA. 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B. C. ON 30"X9' FND. W/ 11/4" ANCHOR RODS DRG. #816.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #719.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
		COLUMN, ELEVATED STRUCTURE
		POLE, WOOD. (SIZE AS NOTED)
		POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
		POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED	PRESENT	DESCRIPTION
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG. #866)
		HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
		FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C., 20"X5' (DWG. #709)
		FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
		FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
		FOUNDATION, CONTROLLER STREET LIGHT SPECIAL, 100A & 200A. (DWG. #876 & # 880)
		FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG. # 583 & #891)
		CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
		MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A; S=SEWER
		JUNCTION BOX, IN PAVEMENT (DWG. #815)
		DETECTOR LOOP IN PAVEMENT
		CONDUIT or P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
		CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED)
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 310W LAMP, 240V
		LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 150W LAMP, 240V
		LUMINAIRE, H.P.S.V. 150W LAMP, 120V
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
		CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSR1, IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 10/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 14/C-#12 600V. EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
		CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
		CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
		WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
		WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
		CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
		WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
		CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES		
PROPOSED	EXISTING	
		310W PENDANT (240V)
		400W PENDANT (240V)
		250W PENDANT (240V)
		150W ACORN (120V)
		150W ACORN (240V)
		50W ACORN (240V)
		100W ACORN (240V)
		150W GLOBE (240V)
		100W GLOBE (240V)
		50W GLOBE (240V)

DATE	REVISION
C 04-01-02	REVISED/REDRAW R. POOL/B. I.
B 12-4-01	ADDED ORNAMENTAL SYMBOLS
A 8-6-96	REDRAWN

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING		
CITY OF CHICAGO		
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: R. IVY	CHIEF DRAFTSMAN: R. CARTER	ENGINEER: R. POOL/R.C/W.T.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO.
ENGINEER OF ELECTRICITY:		826
GENL. SUPT. OF CONSTRUCTION:		
DEPUTY COMMISSIONER:		
SIZE: 22" X 36"	SCALE:	DATE:



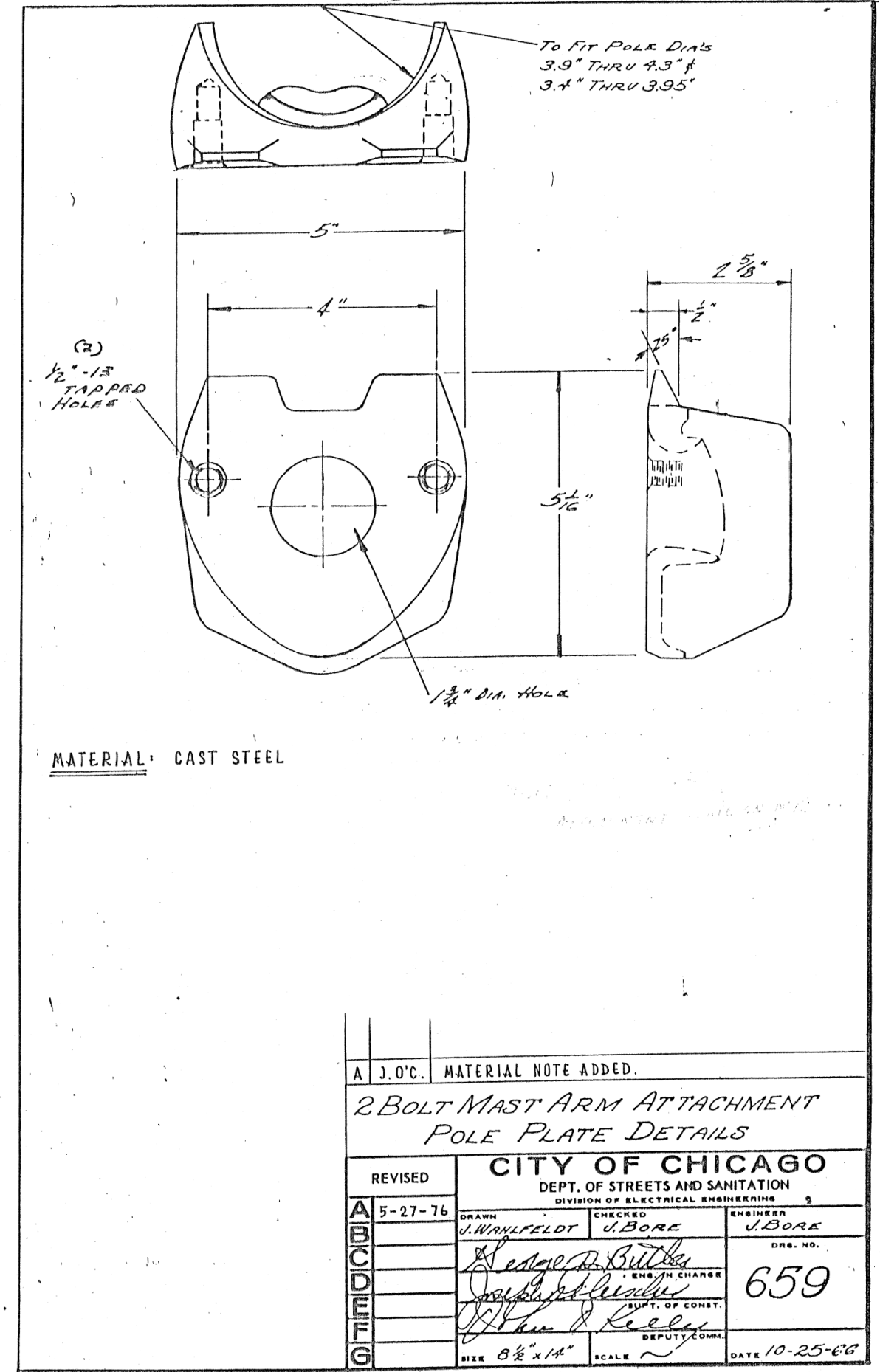
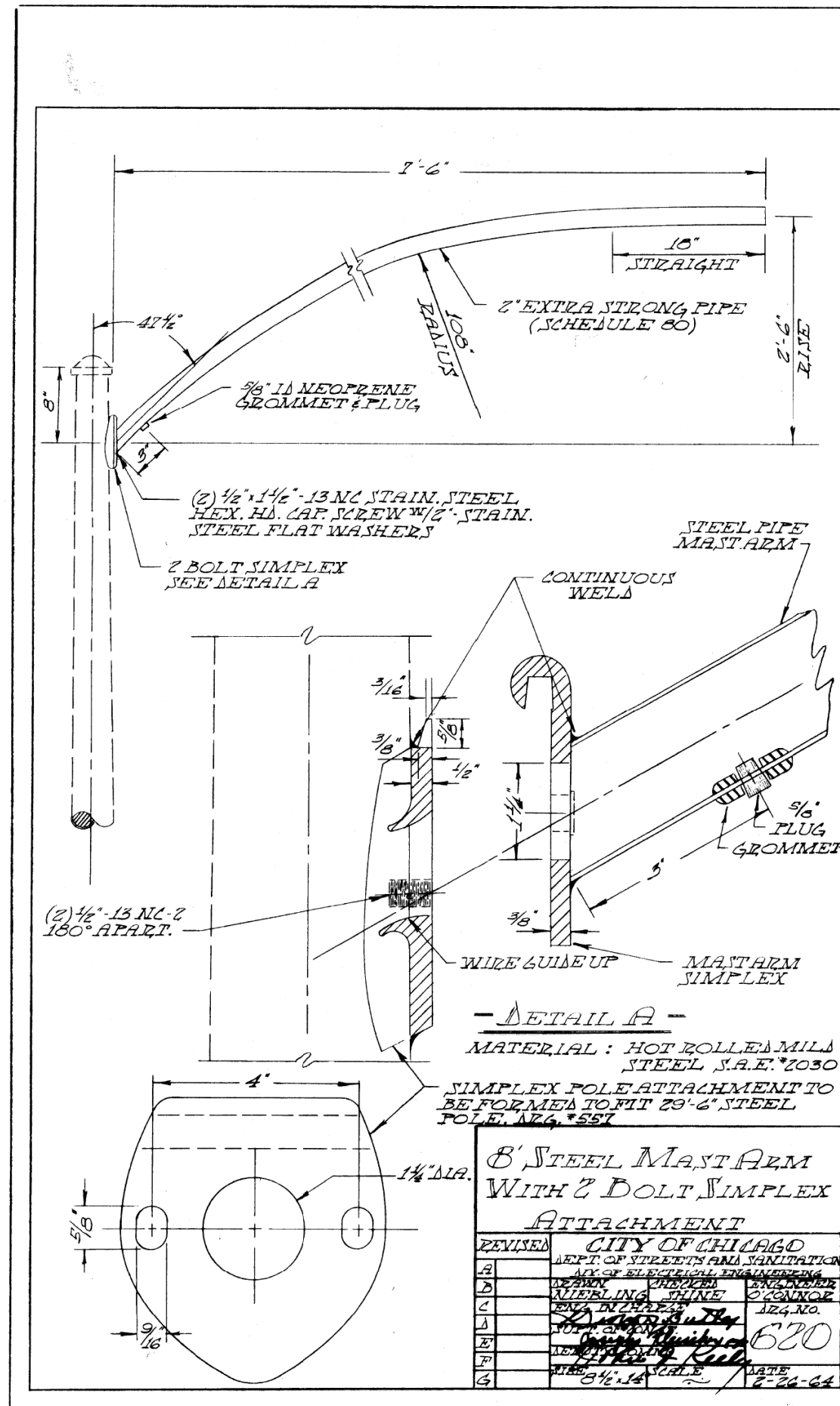
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PLOT SCALE = 2.0000' / in.	CHECKED - WDS	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CDOT DETAILS</b>			
SCALE: N.T.S.	SHEET 28 OF 37 SHEETS	STA.	TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	378
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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A J.O.C. MATERIAL NOTE ADDED.	
2 BOLT MAST ARM ATTACHMENT POLE PLATE DETAILS	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING	
REVISED	ENGINEER
A 5-27-76	J. BORE
B	J. BORE
C	J. BORE
D	J. BORE
E	J. BORE
F	J. BORE
G	J. BORE
DATE 10-25-68	DRS. NO. 659
SIZE 8 1/2" x 14"	DEPUTY COMM.



D160X79-sht-Light-29  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

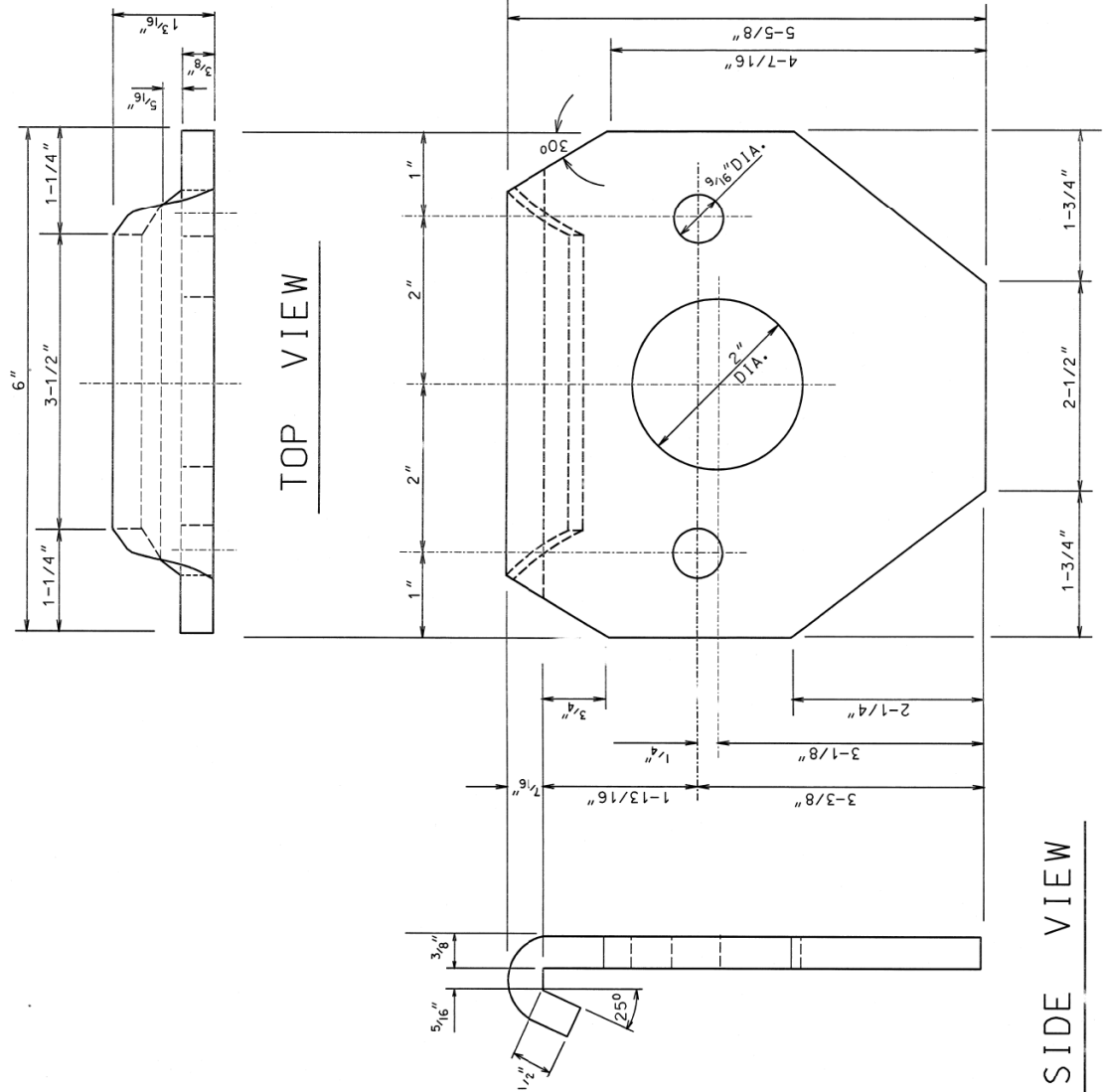
DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS  
 SCALE: N.T.S. SHEET 29 OF 37 SHEETS STA. TO STA.

F.A.I. R.T.E. 90/94/290  
 SECTION 2014-005R&B  
 COUNTY COOK  
 TOTAL SHEETS 888  
 SHEET NO. 379  
 CONTRACT NO. 60X79  
 ILLINOIS FED. AID PROJECT

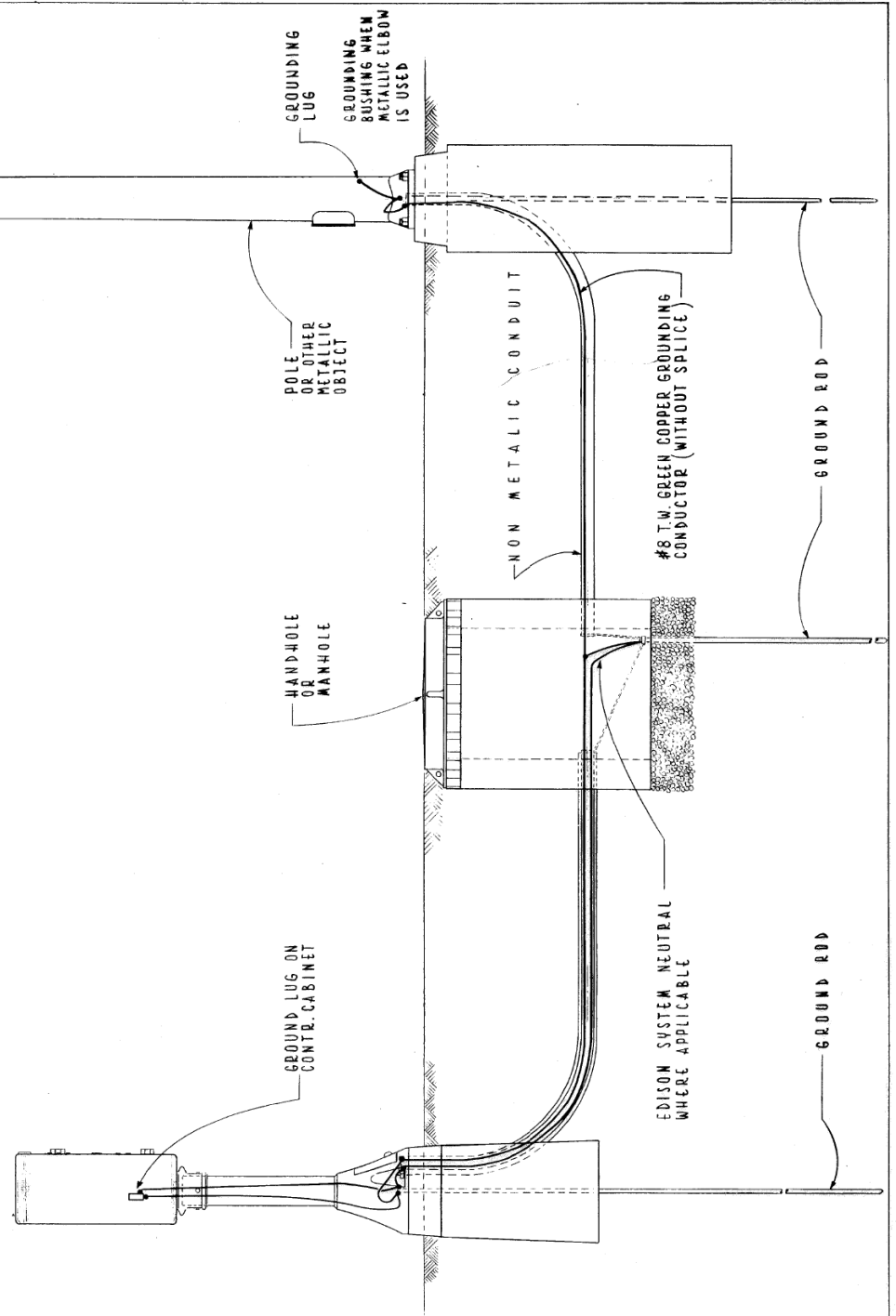
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NOTE: REMOVE ALL SHARP EDGES  
 MATERIAL: HOT ROLLED STEEL  
 ASTM A-36

03-01-02	REDRAWN
TWO BOLT MAST ARM ATTACHMENT (BRACKET DETAILS)	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRIC ENGINEERING	
DRAFTSMAN: ROBERT IVY	ENGINEER: RON POOL
SUPERVISING ENGINEER: ELECTIONS ENGR.	DWG. NO. <b>724</b>
ENGINEER OF ELECTRICITY: GUYL SPT OF ELECTRICITY	DATE: 03-01-73
DEPUTY COMMISSIONER: <i>Blair S. Murphy</i>	SCALE: NONE

NOTE: TERMINATE ALL METALLIC CONDUIT WITH GROUNDING BUSHING & GROUND TO GROUND ROD  
 WHEN METALLIC CONDUIT IS USED DELETE GROUNDING CONDUCTOR



**TYPICAL GROUNDING METHODS FOR BUREAU OF ELECTRICITY EQUIPMENT**

CITY OF CHICAGO  
 DEPT. OF STREETS & SANITATION  
 BUREAU OF ELECTRICITY  
 DIVISION OF ELEC. ENGINEERING

REVISION	DRAWN: E. GERULIS	CHECKED: M. SHINE	ENGINEER: J. O'DONNOR
A	ENG. OF PROJ. <i>Thomas A. Kelly</i>		DWG. NO. <b>736</b>
B	S.U.P.T. OF CONST. <i>Joseph P. Bunchley</i>		
C	DEPT. CHIEF <i>Charles E. Bunchley</i>		
D	SIZE: 8 1/2" x 14"	SCALE: 1" = 10'	DATE: 5-12-76



D160X79-sht-Light-30  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

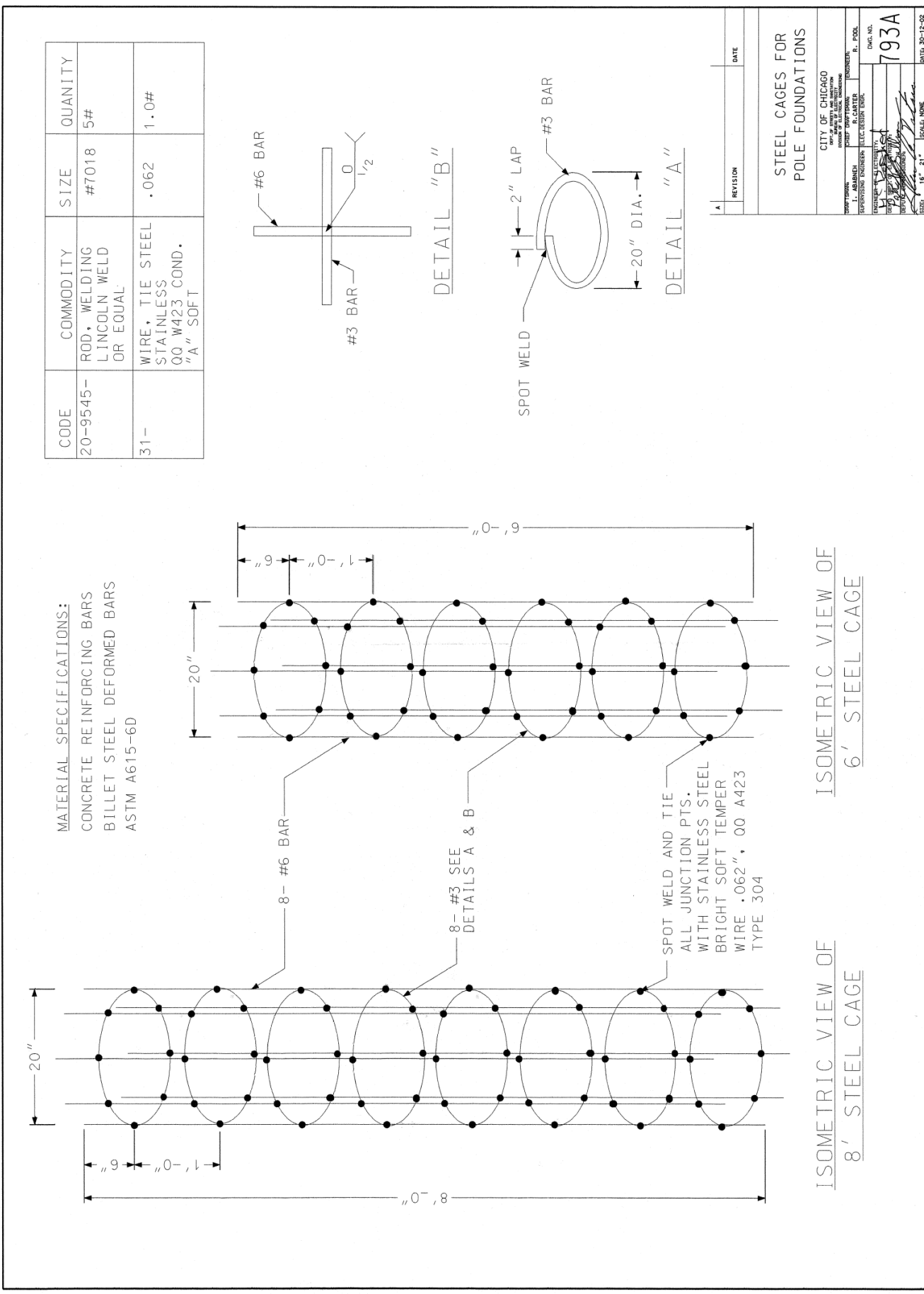
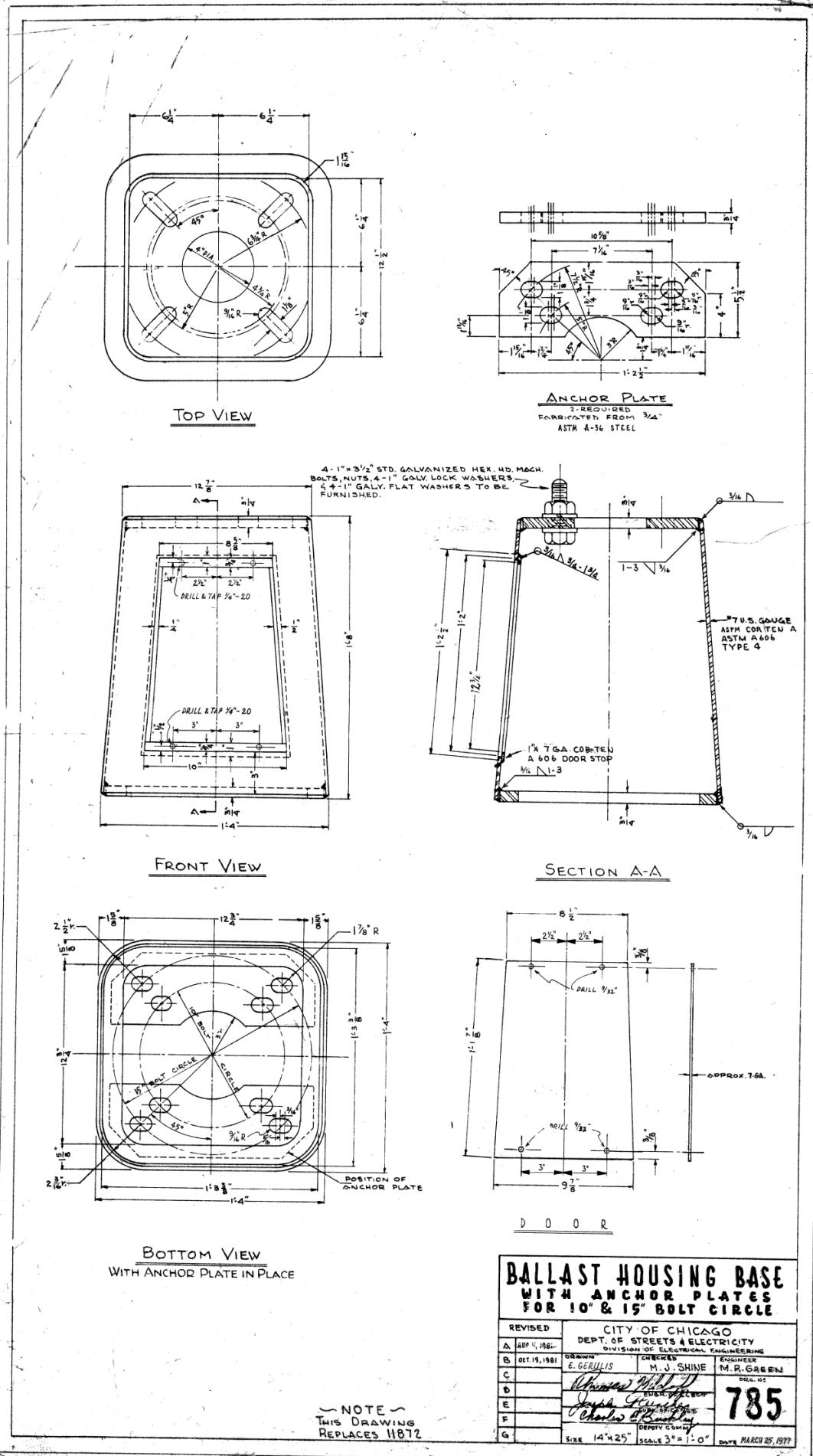
DESIGNED - TJL	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS	
SCALE: N.T.S.	SHEET 30 OF 37 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 380
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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REVISION	DATE

STEEL CAGES FOR POLE FOUNDATIONS

CITY OF CHICAGO  
DEPT. OF STREETS & ELECTRICITY

DESIGNED BY: M. J. SHINE  
CHECKED BY: M. R. GREEN  
DRAWN BY: E. GERULLIS

PROJECT NO. 2014-005R&B  
SHEET NO. 888  
CONTRACT NO. 60X79

DATE: 7/26/2018



D160X79-sht-Light-31  
USER NAME = myersc  
PLOT SCALE = 2.0000' / in.  
PLOT DATE = 7/26/2018

DESIGNED - TJL  
DRAWN - CAM  
CHECKED - WDS  
DATE - 7-30-2018

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

SCALE: N.T.S. SHEET 31 OF 37 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 381
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



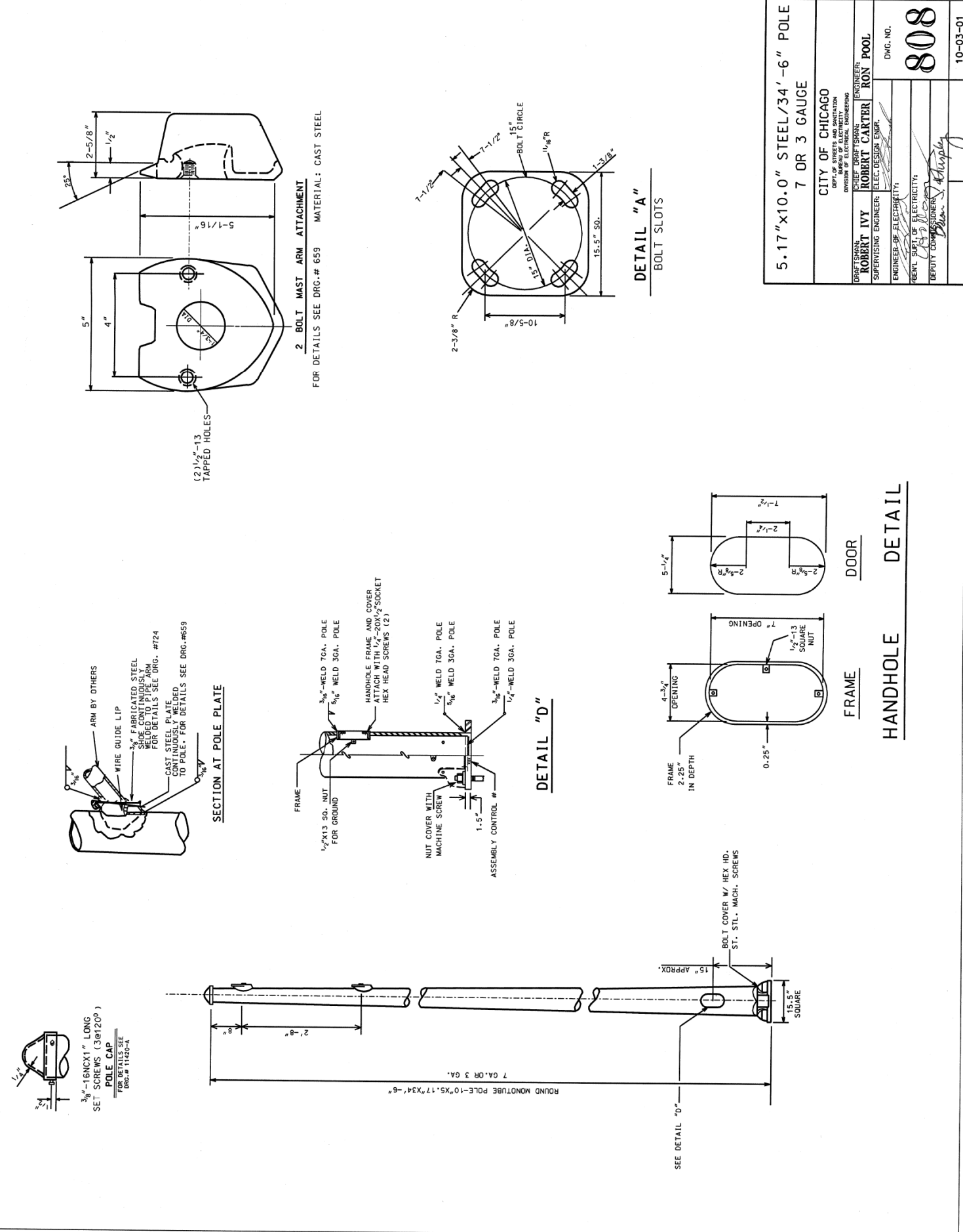
D160X79-sht-Light-32  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

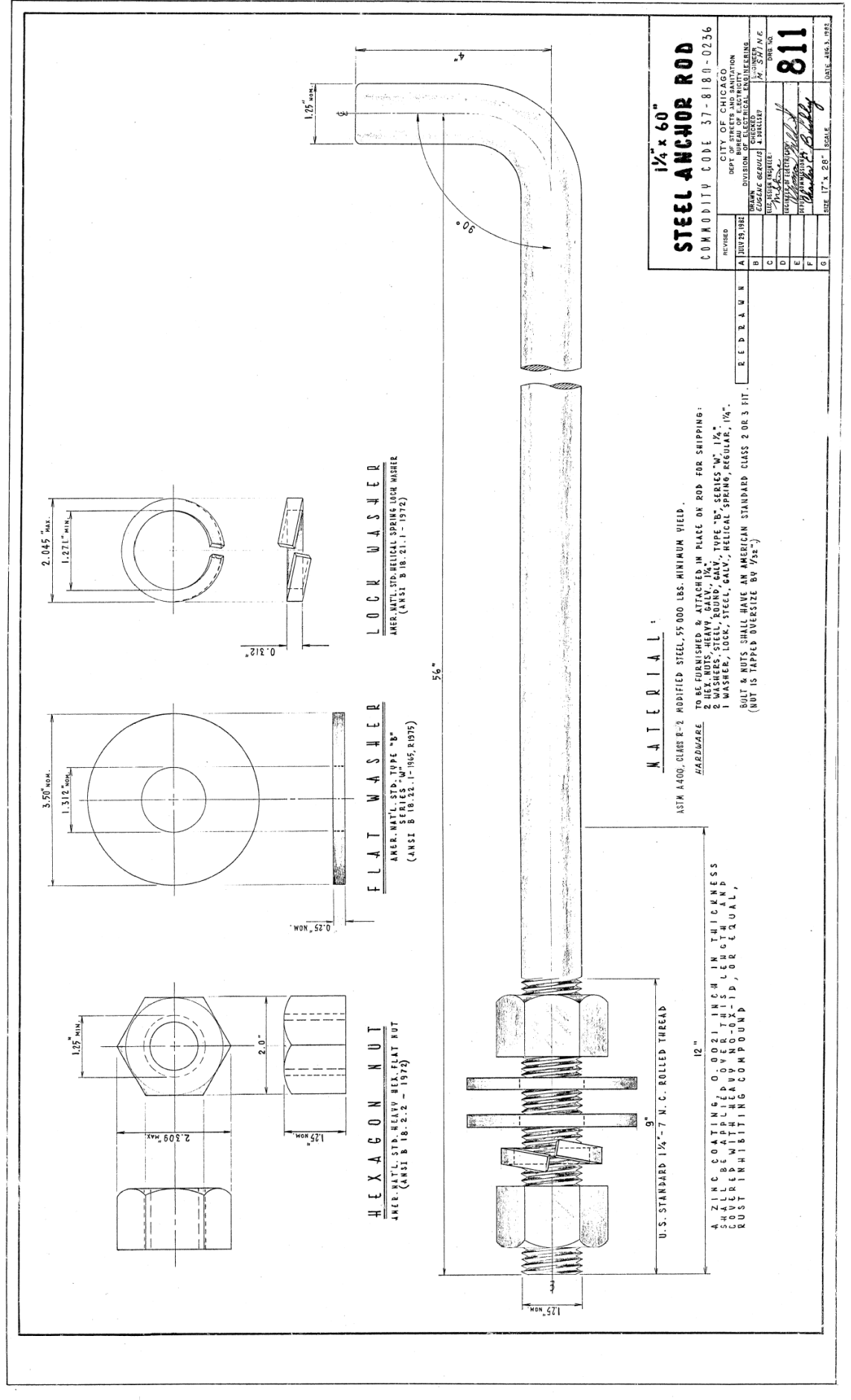
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS  
 SCALE: N.T.S. SHEET 32 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	382
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	



5.17" x 10.0" STEEL / 34" - 6" POLE 7 OR 3 GAUGE	
CITY OF CHICAGO DEPT. OF PUBLIC WORKS DIVISION OF ELECTRICITY	
DESIGNED BY <b>ROBERT IVY</b>	ENGINEER
SUPERVISING ENGINEER <b>ROBERT CARTER</b>	ENGINEER
ENGINEER OF ELECTRICITY <b>RON POOL</b>	ENGINEER
DEPT. CHIEF OF ELECTRICITY <b>John J. Murphy</b>	DEPUTY COMMISSIONER
DWG. NO.	<b>808</b>
10-03-01	



<b>1 1/4" x 60"</b>	
<b>STEEL ANCHOR ROD</b>	
COMMODITY CODE 37-8180-0236	
CITY OF CHICAGO DEPT. OF PUBLIC WORKS DIVISION OF ELECTRICITY	
REVISION	DATE
A	11/19/91
B	
C	
D	
E	
F	
G	
DRAWN BY <b>John J. Murphy</b>	
CHECKED BY <b>John J. Murphy</b>	
DESIGNED BY <b>John J. Murphy</b>	
DWG. NO. <b>811</b>	
DATE 10/16/91	



FILE PATH = p:\617479-PMINT.dwg\60X79-11\000\_CAD\016\_Electrical\Sheets\60X79\_Contract\0160X79-sht-Light-33

**TOP VIEW**

15" BOLT CIRCLE

10-5/8" APPROX.

20"

24"

FACE OF CURB

TO BE DETERMINED BY ENGINEER (MINIMUM 3 FEET)

**ISOMETRIC VIEW OF STEEL CAGE**

NO. 3 TIES (6 FOR 6' CAGE, 8 FOR 8' CAGE)

8-NO. 6 REINFORCING BARS (6 FOR 6' CAGE, 8 FOR 8' CAGE)

TACK WELD AND TIE ALL JUNCTION PTS. IN ACCORDANCE WITH CITY OF CHICAGO DRAWING # 793-A

7'-0" OR 8'-0" OR 9'-0"

20"

1'-0" OR 6"

6"

6"

TO TOP OF CAGE 3"

6"

TO BOTTOM OF CAGE

9"

TO BOTTOM OF CAGE

**ELEVATION**

POLE PROJECTION DIMENSION SHALL NOT BE ALTERED - THIS IS FOR DOUBLE-NUT CONSTRUCTION

TOPS OF CONDUIT TO BE EVEN WITH TOPS OF ANCHOR RODS

CLAMP GROUND ROD, HEAVY DUTY 3/4" WEAVER TYPE WGG58, OR EQUAL

1" R

2"

GRADE

24" R

30"

1-1/4" X 60" ANCHOR ROD (4 REQ.) AS PER DRAWING NO. 811

1, 2 OR 3 2"-, 2-1/2", 3", OR 4" DIA. GALVANIZED STEEL OR PVC CONDUIT AS REQUIRED BY THE ENGINEER AS PER DRAWING NO. 11825

AUGERED OPENING

3/4" X 12" GROUND ROD

9" TO BOTTOM OF CAGE

**NOTES:**

- 1.7 FOOT FOUNDATION FOR ARTERIAL STREET LIGHT POLE, UNLESS NOTED OTHERWISE. 9 FOOT FOUNDATION FOR TRAFFIC POLE WITH 16', 20', OR 26' MONOTUBE MAST ARM.
- CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
- REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

**NOTE:** HOLE FOR FOUNDATION MUST BE AUGERED IN UNDISTURBED SOIL

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	0.82 OR 1.05
09-4001-	ELBOW, LARGE RADIUS	2", 2-1/2", 3", 4"	VARIES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20" Ø X 6' (OR 8')	1
09-7796-9200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2", 2-1/2", 3" OR 4"	VARIES

**REVISIONS:**

DATE	REVISION
8/21/02	SUPERCEDES DWG #818 DRAWN 4/21/81

**FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15" BOLT CIRCLE**

CITY OF CHICAGO  
DEPT. OF STREETS AND SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: B. GARNSEY  
ELECTRICAL DESIGN ENGINEER  
ENGINEER OF ELECTRICITY

CHIEF DRAFTSMAN: R. CARTER  
ENGINEER

GENERAL SUPERINTENDENT: [Signature]

DEPUTY SUPERINTENDENT: [Signature]

SCALE: 11" x 17"

DRAWING NO. 818

DATE: 8/21/02

**T A B L E**

ANCHOR BOLT SIZE	POLE GAUGES	ALUM. PED.
1"	1 1/4"	3/4"
1 1/4"	1 1/2"	3/4"
1 1/2"	1 3/4"	3/4"
1 3/4"	2"	3/4"
2"	2 1/4"	3/4"
2 1/4"	2 1/2"	3/4"
2 1/2"	2 3/4"	3/4"
2 3/4"	3"	3/4"
3"	3 1/4"	3/4"
3 1/4"	3 1/2"	3/4"
3 1/2"	3 3/4"	3/4"
3 3/4"	4"	3/4"
4"	4 1/4"	3/4"
4 1/4"	4 1/2"	3/4"
4 1/2"	4 3/4"	3/4"
4 3/4"	5"	3/4"
5"	5 1/4"	3/4"
5 1/4"	5 1/2"	3/4"
5 1/2"	5 3/4"	3/4"
5 3/4"	6"	3/4"
6"	6 1/4"	3/4"
6 1/4"	6 1/2"	3/4"
6 1/2"	6 3/4"	3/4"
6 3/4"	7"	3/4"
7"	7 1/4"	3/4"
7 1/4"	7 1/2"	3/4"
7 1/2"	7 3/4"	3/4"
7 3/4"	8"	3/4"
8"	8 1/4"	3/4"
8 1/4"	8 1/2"	3/4"
8 1/2"	8 3/4"	3/4"
8 3/4"	9"	3/4"
9"	9 1/4"	3/4"
9 1/4"	9 1/2"	3/4"
9 1/2"	9 3/4"	3/4"
9 3/4"	10"	3/4"
10"	10 1/4"	3/4"
10 1/4"	10 1/2"	3/4"
10 1/2"	10 3/4"	3/4"
10 3/4"	11"	3/4"
11"	11 1/4"	3/4"
11 1/4"	11 1/2"	3/4"
11 1/2"	11 3/4"	3/4"
11 3/4"	12"	3/4"
12"	12 1/4"	3/4"
12 1/4"	12 1/2"	3/4"
12 1/2"	12 3/4"	3/4"
12 3/4"	13"	3/4"
13"	13 1/4"	3/4"
13 1/4"	13 1/2"	3/4"
13 1/2"	13 3/4"	3/4"
13 3/4"	14"	3/4"
14"	14 1/4"	3/4"
14 1/4"	14 1/2"	3/4"
14 1/2"	14 3/4"	3/4"
14 3/4"	15"	3/4"
15"	15 1/4"	3/4"
15 1/4"	15 1/2"	3/4"
15 1/2"	15 3/4"	3/4"
15 3/4"	16"	3/4"
16"	16 1/4"	3/4"
16 1/4"	16 1/2"	3/4"
16 1/2"	16 3/4"	3/4"
16 3/4"	17"	3/4"
17"	17 1/4"	3/4"
17 1/4"	17 1/2"	3/4"
17 1/2"	17 3/4"	3/4"
17 3/4"	18"	3/4"
18"	18 1/4"	3/4"
18 1/4"	18 1/2"	3/4"
18 1/2"	18 3/4"	3/4"
18 3/4"	19"	3/4"
19"	19 1/4"	3/4"
19 1/4"	19 1/2"	3/4"
19 1/2"	19 3/4"	3/4"
19 3/4"	20"	3/4"

**INSTALLATION NOTES**

- COAT EXPOSED PORTION OF ANCHOR BOLTS WITH APPROVED ANTI RUSTING GREASE ("NO-OX" OR EQUAL).
- INSTALL LOWER LEVELLING WITTS & WASHERS, SET AT PROPER GRADE WITH HARD LEVEL, USE TABLE FOR APPROPRIATE DIMENSIONS.
- Mount pole or pedestal, attach top washers and nuts tight.
- TOGGLE POLE OR PEDestal AFTER ALL MASTARMS, STREET LIGHTS, TO POLE & TIGHTEN ALL NUTS.
- ATTACH NUT COVERS WHERE REQUIRED.
- DO NOT GROUT IN SPACE BETWEEN BOTTOM OF POLE & TOP OF FOUNDATION. TOP OF FOUNDATION OR SURFACE OF SIDEWALK MUST BE LEFT CLEAN AND SMOOTH.
- POLE OR PEDestal IS TO BE PERFECTLY PLUMB. NO TILT IS TO BE LEFT.

**IF NECESSARY:**  
ANCHOR BOLT TO BE TRIMMED WITH SAW TO GRADE. THE TENSILE STRENGTH OF THE ANCHOR BOLT SHALL BE MAINTAINED. COAT ANCHOR BOLT WITH RUST-OLEUM HARD HAT ZINC RICH COMPOUND.

**CONSTRUCTION METHOD FOR DOUBLE-NUT INSTALLATION OF POLES AND PEDESTALS**

CITY OF CHICAGO  
DEPT. OF STREETS AND SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAWING NO. 837

DATE: 8/21/02

SCALE: 11" x 17"

**CDOT DETAILS**

SCALE: N.T.S.

SHEET 33 OF 37 SHEETS STA. TO STA.

F.A.I. R.T.E. 90/94/290

SECTION 2014-005R&B

COUNTY COOK

TOTAL SHEETS 888

SHEET NO. 383

CONTRACT NO. 60X79

ILLINOIS FED. AID PROJECT



D160X79-sht-Light-34  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

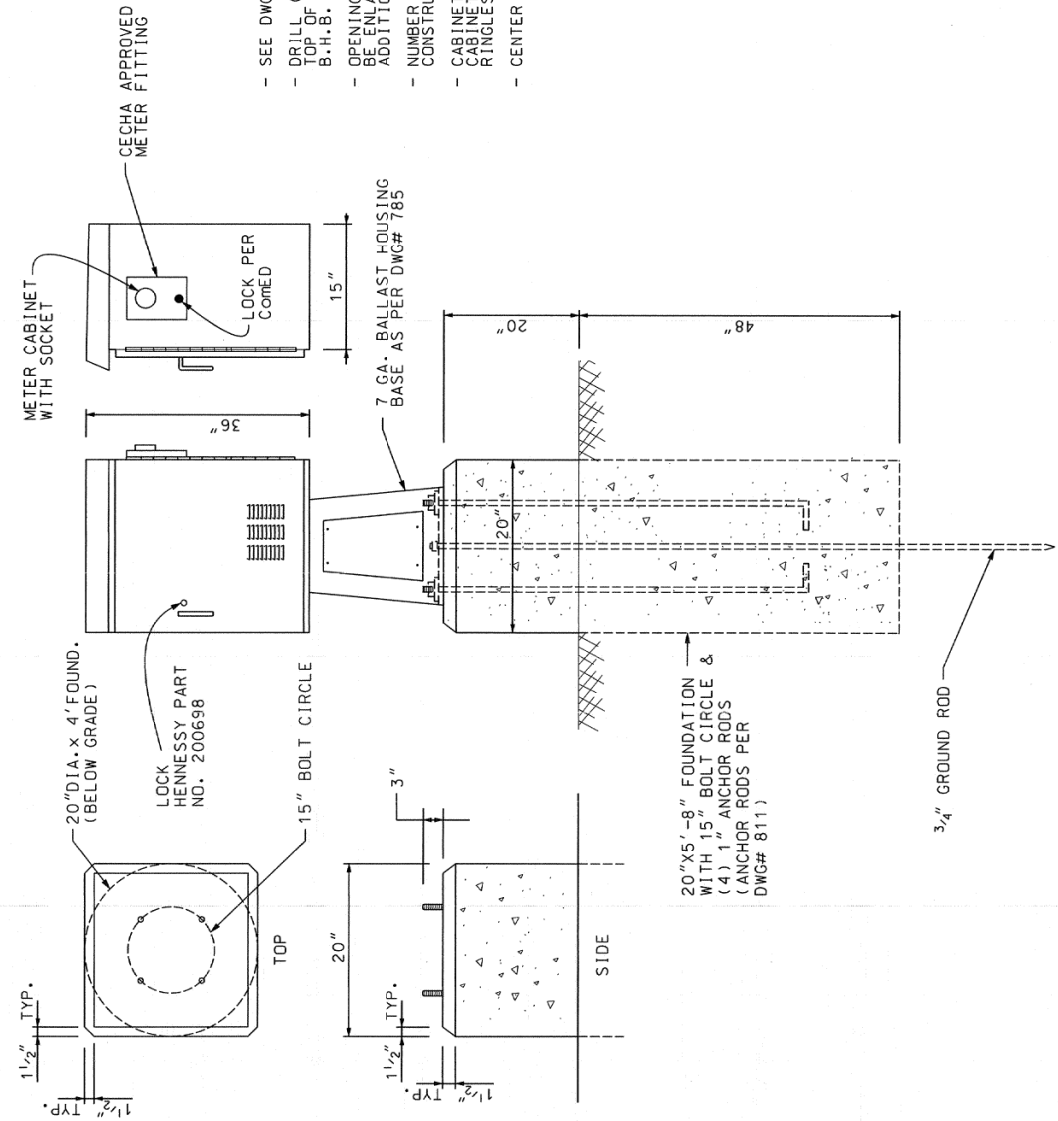
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 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

SCALE: N.T.S. SHEET 34 OF 37 SHEETS STA. TO STA.

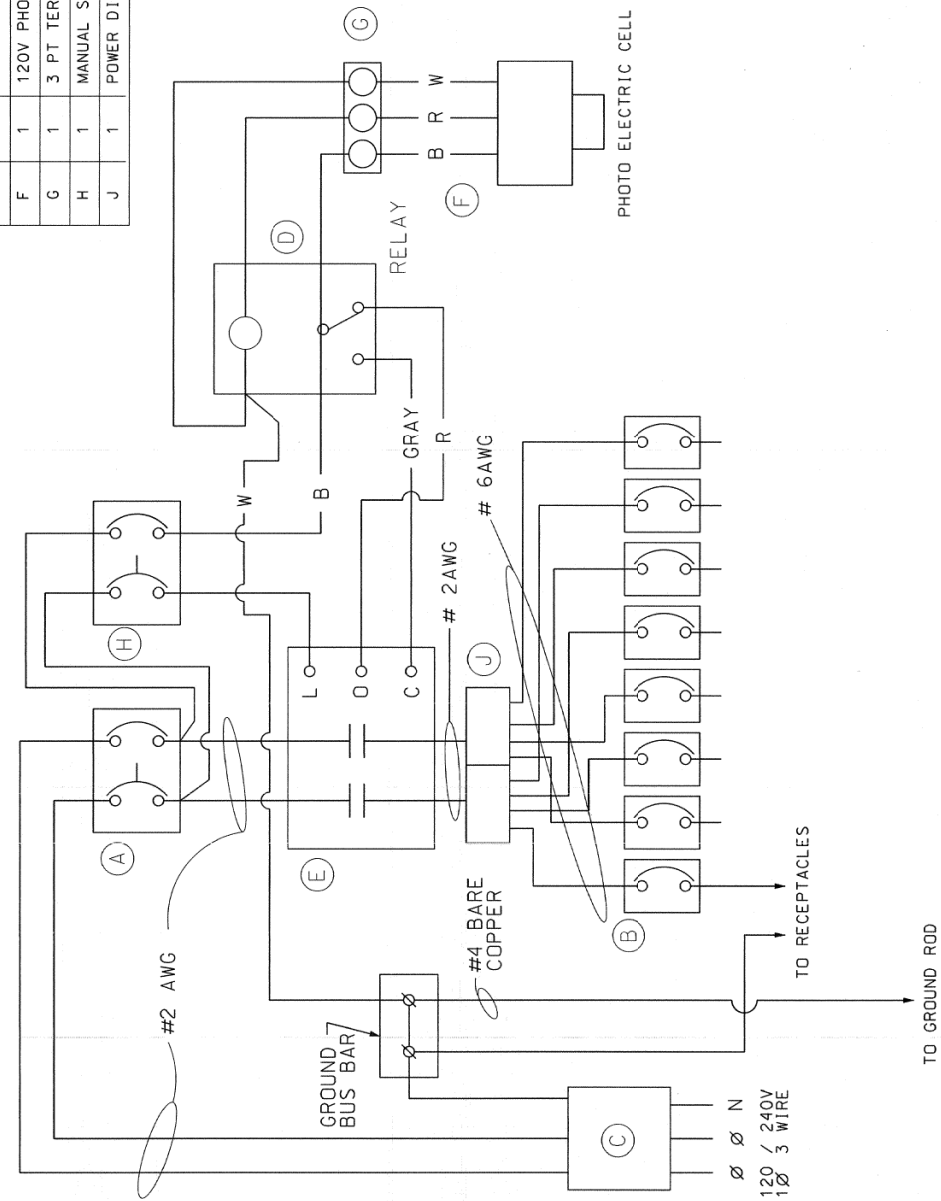
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	384
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



- SEE DWG# 974 FOR WIRING DIAGRAM.
- DRILL (4) 1/2" DIA. HOLES IN BOTTOM OF CABINET & TOP OF BALLAST HOUSING BASE. BOLT CABINET TO B.H.B. USING (4) 3/8 X 2 1/2 BOLTS.
- OPENINGS IN BOTTOM OF CABINET & TOP OF B.H.B. MAY BE ENLARGED TO A MAX. OF 5 X 10 TO FACILITATE ADDITIONAL CABLE.
- NUMBER & SIZE OF CONDUITS TO BE SHOWN ON CONSTRUCTION DRAWINGS.
- CABINET WITH METER SOCKET ATTACHED TO SIDE OF CABINET. MIN. 100 AMP 250 AMP 4 TERMINAL RINGLESS, 600 VAC., OR EQUIVALENT.
- CENTER OF METER NOT TO BE OVER 60" FROM GRADE.

DATE	REVISION
100 AMP. BASE MOUNTED RECEPTACLE CONTROLLER CABINET	
CITY OF CHICAGO	
DESIGNED BY: CAJAD/HR	ENGINEER: CAJAD/HR
CHECKED BY: CAJAD/HR	SUPERVISING ENGINEER: ELEC. DESIGN ENGR. R. POOL
DATE: 5/31/13	DWG. NO. 973
SCALE: NONE	

ITEM	QTY	DESCRIPTION
A	1	BREAKER 2P 100 AMP
B	8	BREAKER 1P 20 AMP
C	1	CECHA APPROVED METER FITTING
D	1	POTTER BRUMFIELD PRD5AYO-120 RELAY
E	1	REMOTE CONTROL SWITCH 2P 100 AMP 240V
F	1	120V PHOTOCELL
G	1	3 PT TERMINAL BLOCK
H	1	MANUAL STARTER SWITCH
J	1	POWER DISTRIBUTION BLOCK



DATE	REVISION
WIRING DIAGRAM 100 AMP / 120 VOLT RECEPTACLE CONTROLLER	
CITY OF CHICAGO	
DESIGNED BY: CAJAD/HR	ENGINEER: CAJAD/HR
CHECKED BY: CAJAD/HR	SUPERVISING ENGINEER: ELEC. DESIGN ENGR. R. POOL
DATE: 5/31/13	DWG. NO. 974
SCALE: NONE	



D160X79-sht-Light-35  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

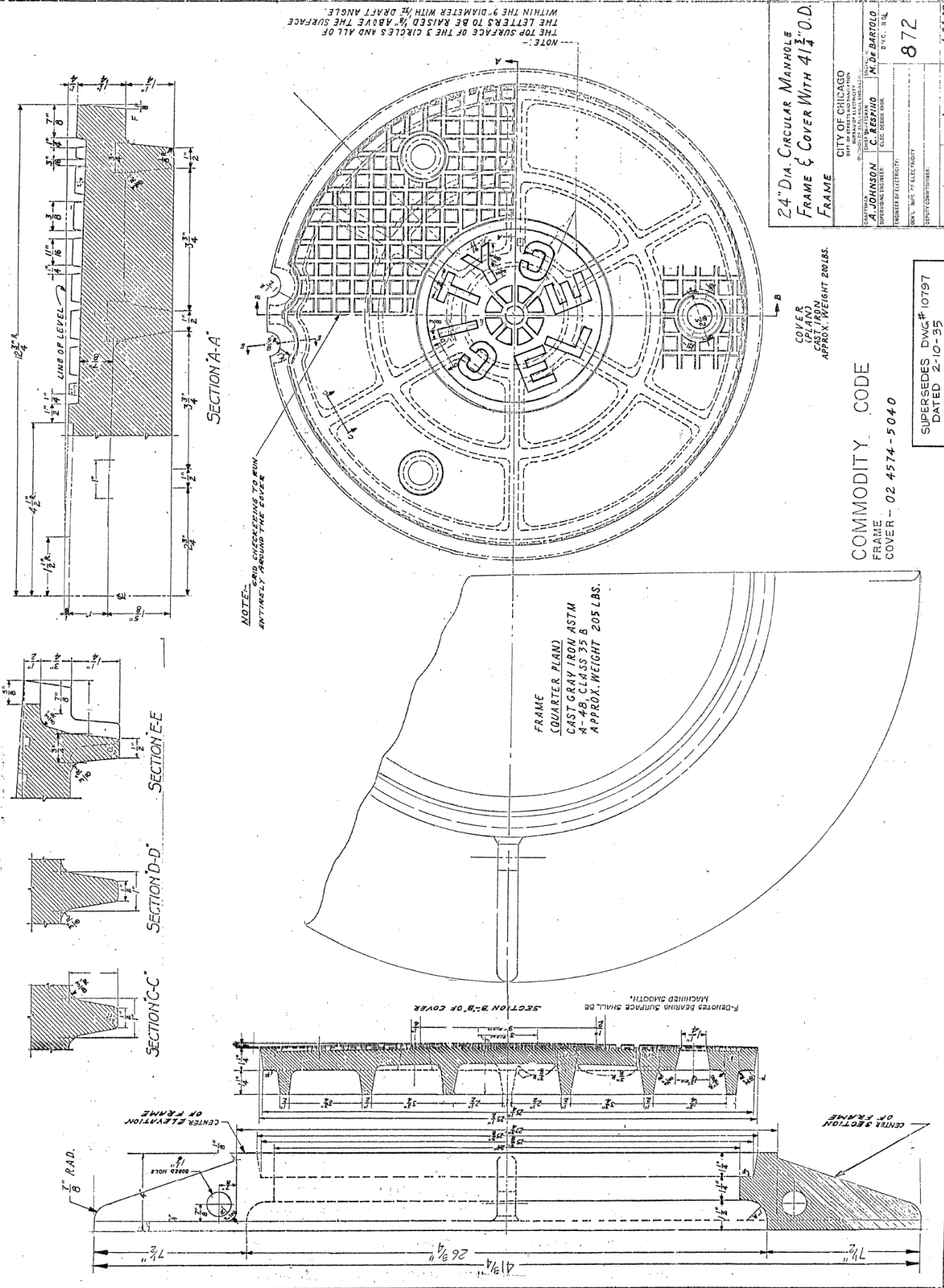
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 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

SCALE: N.T.S. SHEET 35 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	385
CONTRACT NO. 60X79			ILLINOIS FED. AID PROJECT	



24" DIA. CIRCULAR MANHOLE  
 FRAME & COVER WITH 4 1/2" O.D.  
 FRAME

CITY OF CHICAGO  
 DIVISION OF ELECTRICAL ENGINEERING  
 SUPERVISOR OF ELECTRICAL ENGINEERING  
 A. JOHNSON  
 PROJECT ENGINEER  
 M. DE BARTOLO  
 PROJECT ENGINEER  
 DATE: 4-24-92

COMMODITY CODE  
 FRAME  
 COVER - 02 4574-5040

SUPERSEDES DWG # 0797  
 DATED 2-10-95

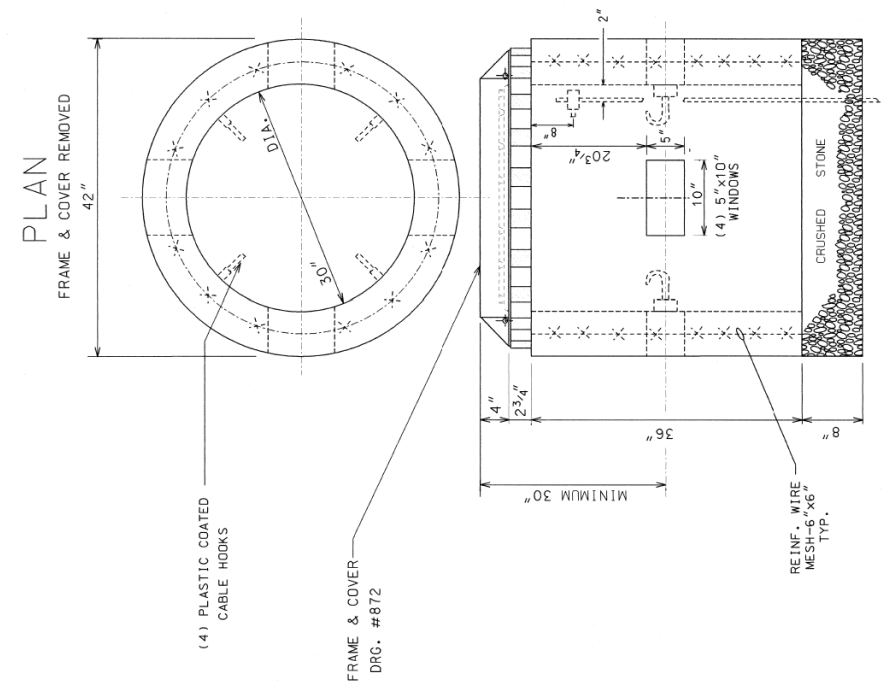
COMPLETE COMMODITY CODE NO. 05-6610-5310M

CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRUSHED	BAG	5
(2) 05-5082-5330	SOND TUBE	30"	1
(2) 05-5082-5342	SOND TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
- (2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

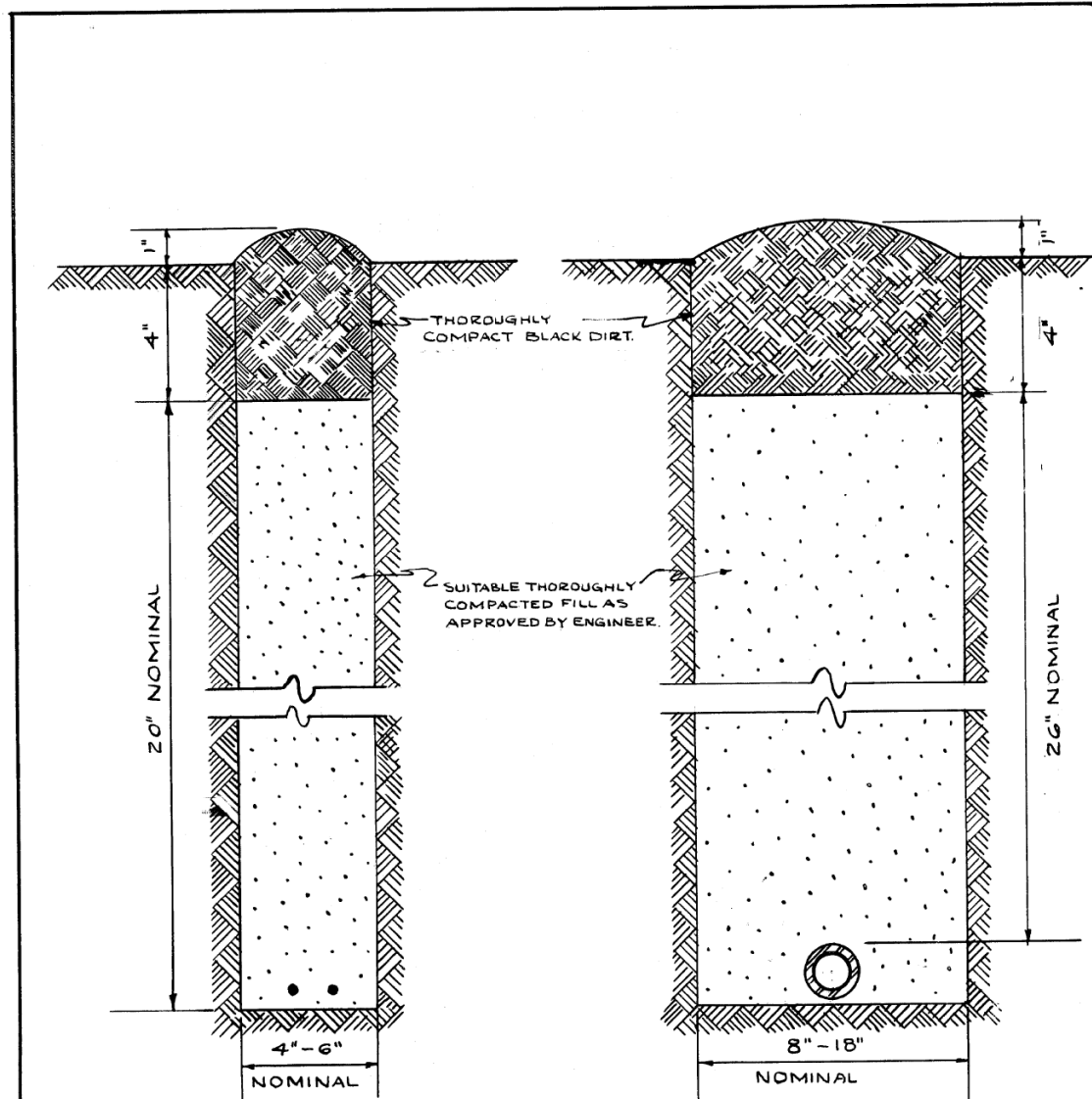
- 1. 8" BED OF STONE FOR DRAINAGE.
- 2. ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.



30" DIA.  
 CONCRETE HANDHOLE

CITY OF CHICAGO  
 DIVISION OF ELECTRICAL ENGINEERING  
 SUPERVISOR OF ELECTRICAL ENGINEERING  
 M. PATTON  
 PROJECT ENGINEER  
 M. DE BARTOLO  
 PROJECT ENGINEER  
 DATE: 4-24-92

FILE PATH = p:\61779-PM\INT.\aecom\line\local\AECOM\_D592\_NA\Documents\01\_Americas\T\_engor\station\60269438\_Circle\Phase\_11\000\_CAD\016\_Electrical\Sheets\60X79\_Contract\0160X79-sht-Light-36



CABLE TRENCH

CONDUIT TRENCH

**NOTE**  
 EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.  
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

CITY OF CHICAGO DEPT. OF STREETS & SANITATION DIVISION OF ELECTRICAL ENGINEERING			
REVISION	DRAWN	CHECKED	ENGINEER
A	W. E. HARP	M. J. Line	J. O'CONNOR
B			
C	ENGINEER IN CHARGE		DRG. NO.
D	<i>Joseph D. Butty</i>		579
E	SUPT. OF CONST.		
F	<i>Joseph J. Murphy</i>		
G	DEPUTY COMM.		
H	<i>Arthur J. Kelley</i>		
	SIZE: 8 1/2" x 14"	SCALE: N	DATE: 7-14-61

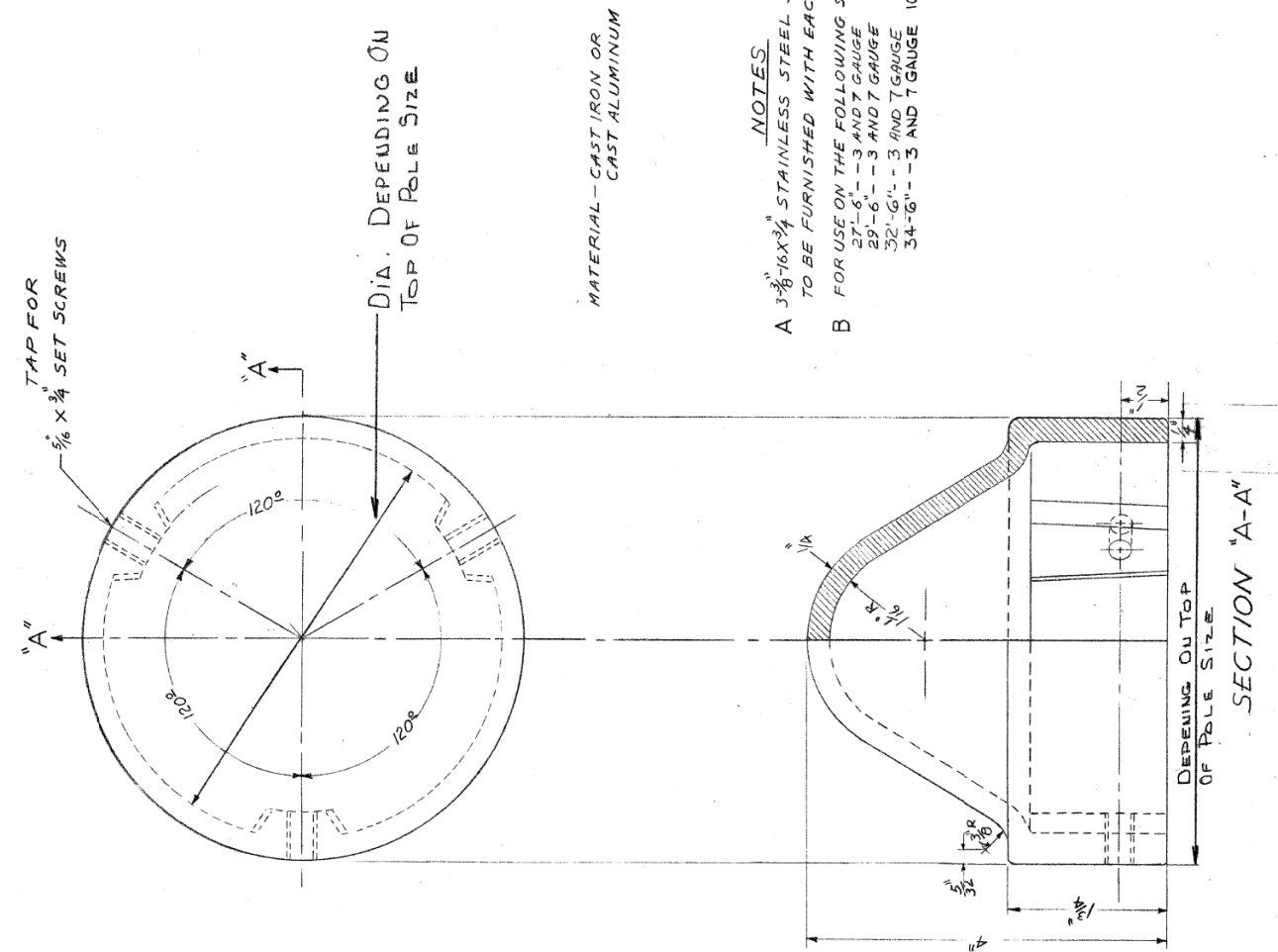
DESIGNED - T.J.L.	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 7-30-2018	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

SCALE: N.T.S. SHEET 36 OF 37 SHEETS STA. TO STA.

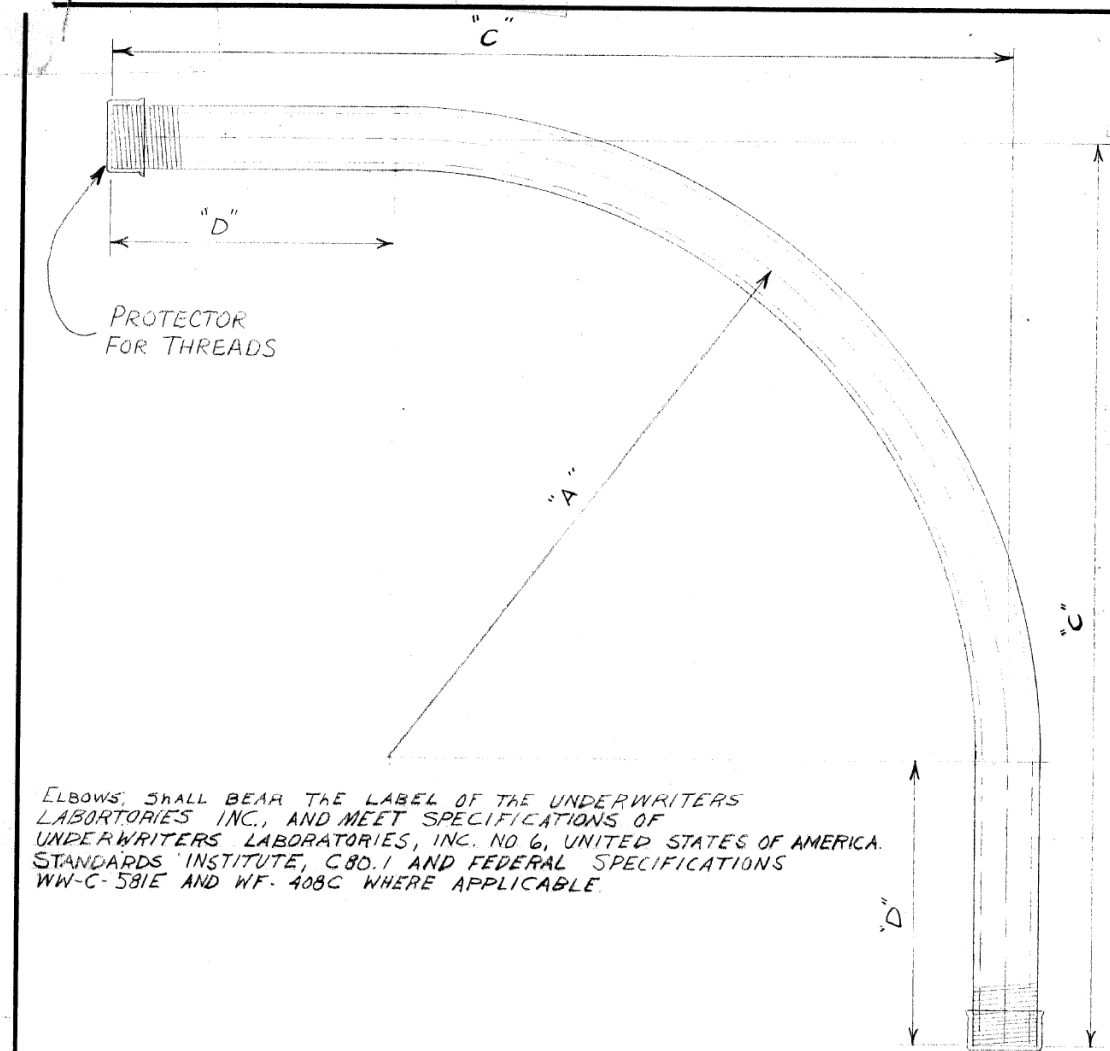
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		DATE: 10-9-69
REVISION	DATE	BY
A	2-13-85	D. NELLA
B		
C		
D		
E		
F		
G		
PROJECT NO. 11420-A		SCALE: 16" X 21"



D160X79-sht-Light-36  
 USER NAME = myersc  
 PLOT SCALE = 2,0000' / in.  
 PLOT DATE = 7/26/2018

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	386
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO 6, UNITED STATES OF AMERICA. STANDARDS INSTITUTE, C80.1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE:  
 TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

REAM BOTH ENDS TO REMOVE BURRS

TABLE OF DIMENSIONS				
CONDUIT SIZE	DIMENSIONS			COMMODITY CODE
	"A"	"C"	"D"	
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

B	SPECIFICATIONS REVISED		
A	REVISED DIMENSIONS ON 3" & 4" CONDUIT L.P.		
<b>ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS</b>			
<b>CITY OF CHICAGO</b> DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
REVISED	DATE	BY	CHKD.
A	7-22-71	LON BURDY	M.S.
B	4-3-79		
C			
D			
E			
F			
G			
DRAWN		ENGINEER	
LON BURDY		M. SHINE	
CHECKED		DRG. NO.	
M.S.		11825	
DEPUTY COMM.		DATE	
SCALE: 3/16"		6-2-71	
SIZE 8 1/2" X 14"			



D160X79-sht-Light-37  
 USER NAME = myersc  
 PLOT SCALE = 2.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - TJL  
 DRAWN - CAM  
 CHECKED - WDS  
 DATE - 7-30-2018

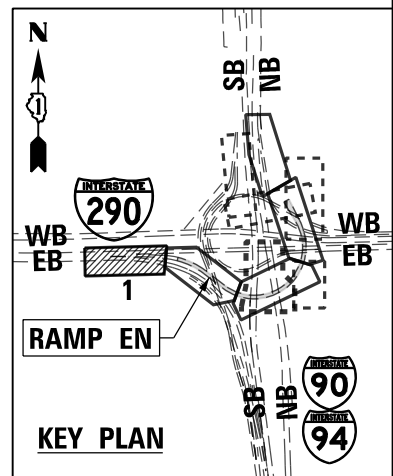
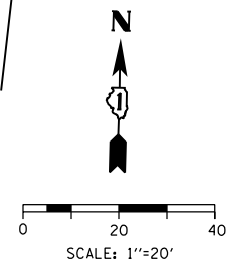
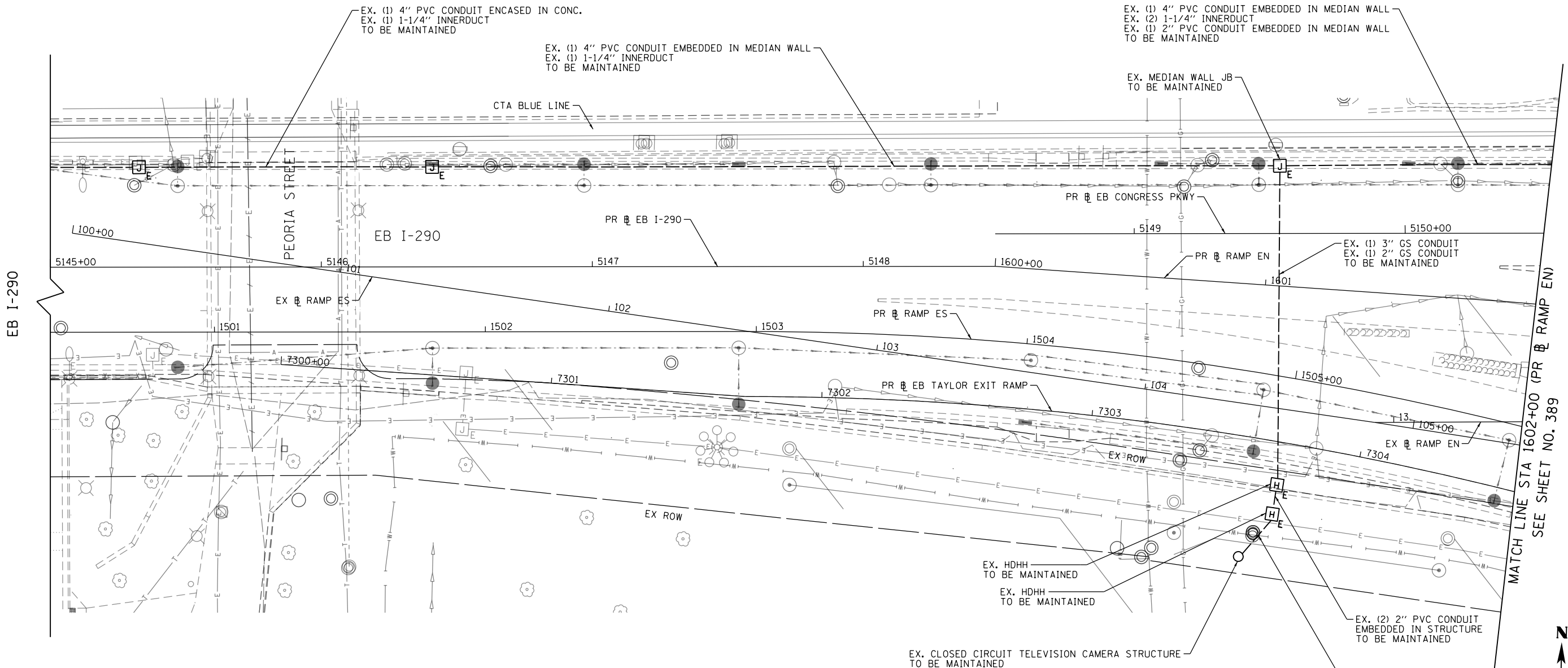
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CDOT DETAILS  
 SCALE: N.T.S. SHEET 37 OF 37 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	387
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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ITS-01



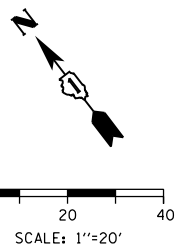
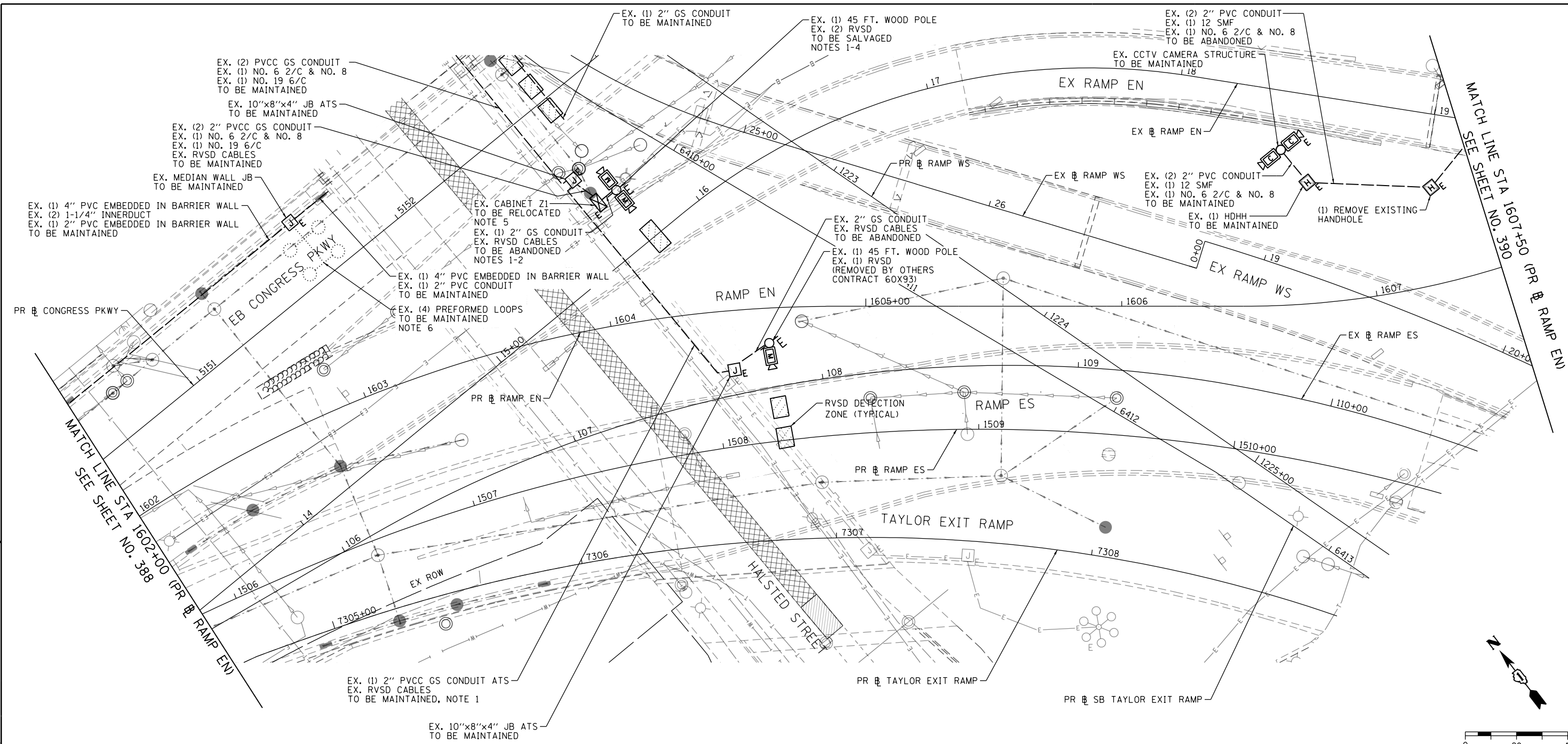
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PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING/TEMPORARY ITS PLAN RAMP EN</b>		
SCALE: 1"=20'	SHEET 1 OF 18 SHEETS	STA. 1600+00 TO STA. 1602+00

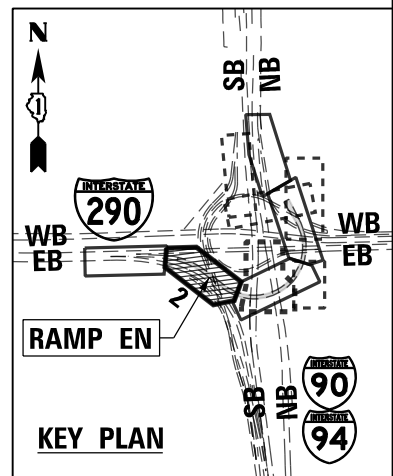
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	388
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. MAINTAIN THE EXISTING RADAR VEHICLE SENSING DEVICE (RVSD) DETECTOR SYSTEM AND RVSD CABLES IN THE EXISTING CONDUITS, HEAVY DUTY HANDHOLES, AND JUNCTION BOXES UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. THIS WORK SHALL INCLUDE THE ADJUSTMENT OF RVSD DETECTORS AS NECESSARY IN COORDINATION WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING. RVSD MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. TEMPORARY WOOD POLES AND RVSD SYSTEM TO BE TURNED OVER TO IDOT AFTER REMOVAL.
3. REMOVE EXISTING SURVEILLANCE EQUIPMENT (SALVAGE) AND TURN OVER TO IDOT DISTRICT 1. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT" PAY ITEM.
4. COORDINATE MAINTENANCE OF RVSD DETECTOR SYSTEM WITH CONSTRUCTION WORK AND STAGING OF CONTRACT 60X93. CONTRACTOR COOPERATION IS REQUIRED.
5. EXISTING CABINET TO BE RELOCATED TO NEW CONCRETE FOUNDATION (SEE SHEET ITS-10).
6. EXCESS LOOP WIRE TO BE MAINTAINED IN THE JUNCTION BOX EMBEDDED IN MEDIAN WALL AND SPLICED TO PROPOSED LEAD-IN CABLES (SEE SHEET ITS-10).



ITS-02



D160X79-sh-ITS-02	DESIGNED - PTJ	REVISED -
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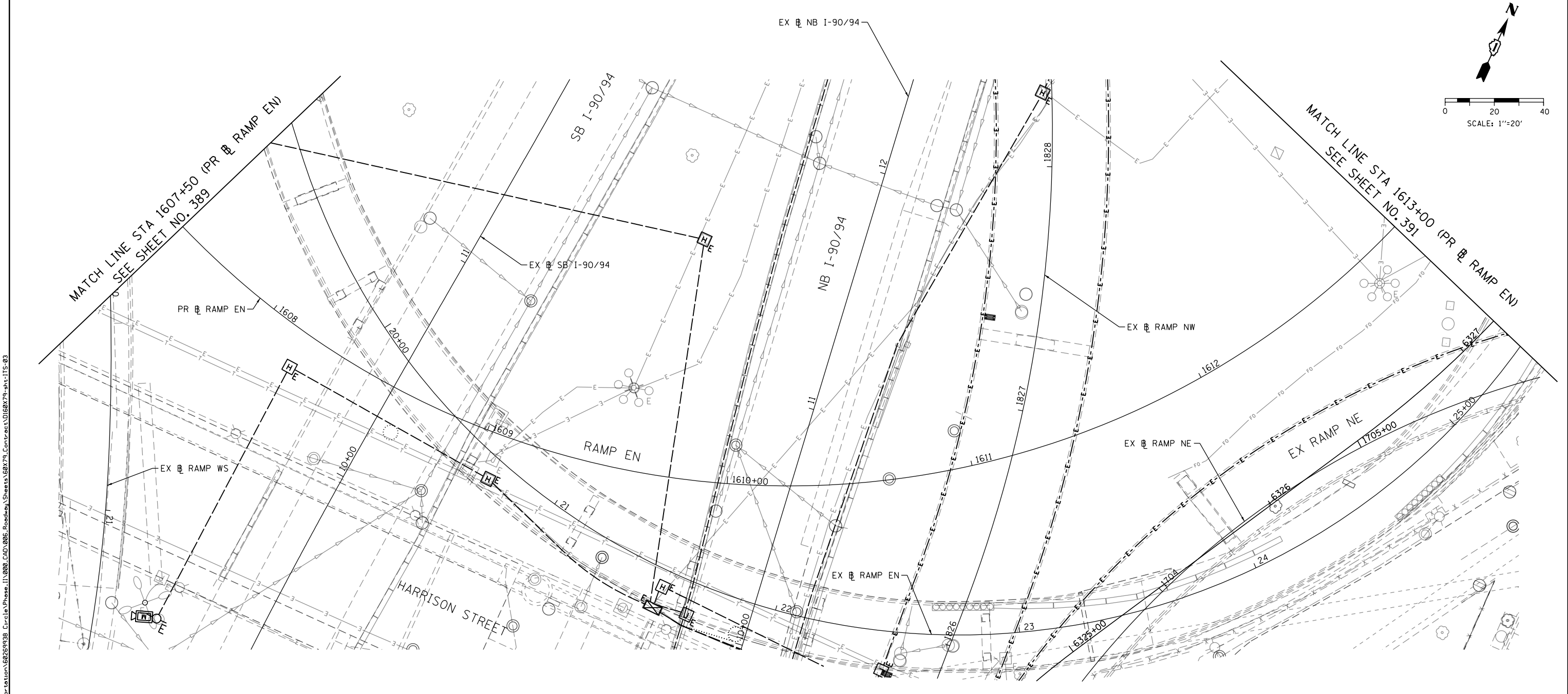
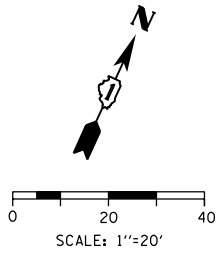
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY ITS PLAN  
RAMP EN**

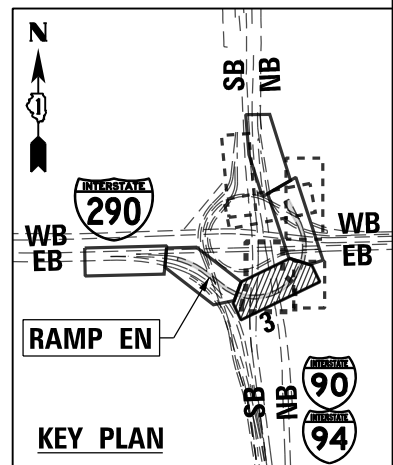
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	389
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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**NOTES:**  
 1. SEE CALLOUTS AND QUANTITIES ON ITS-06



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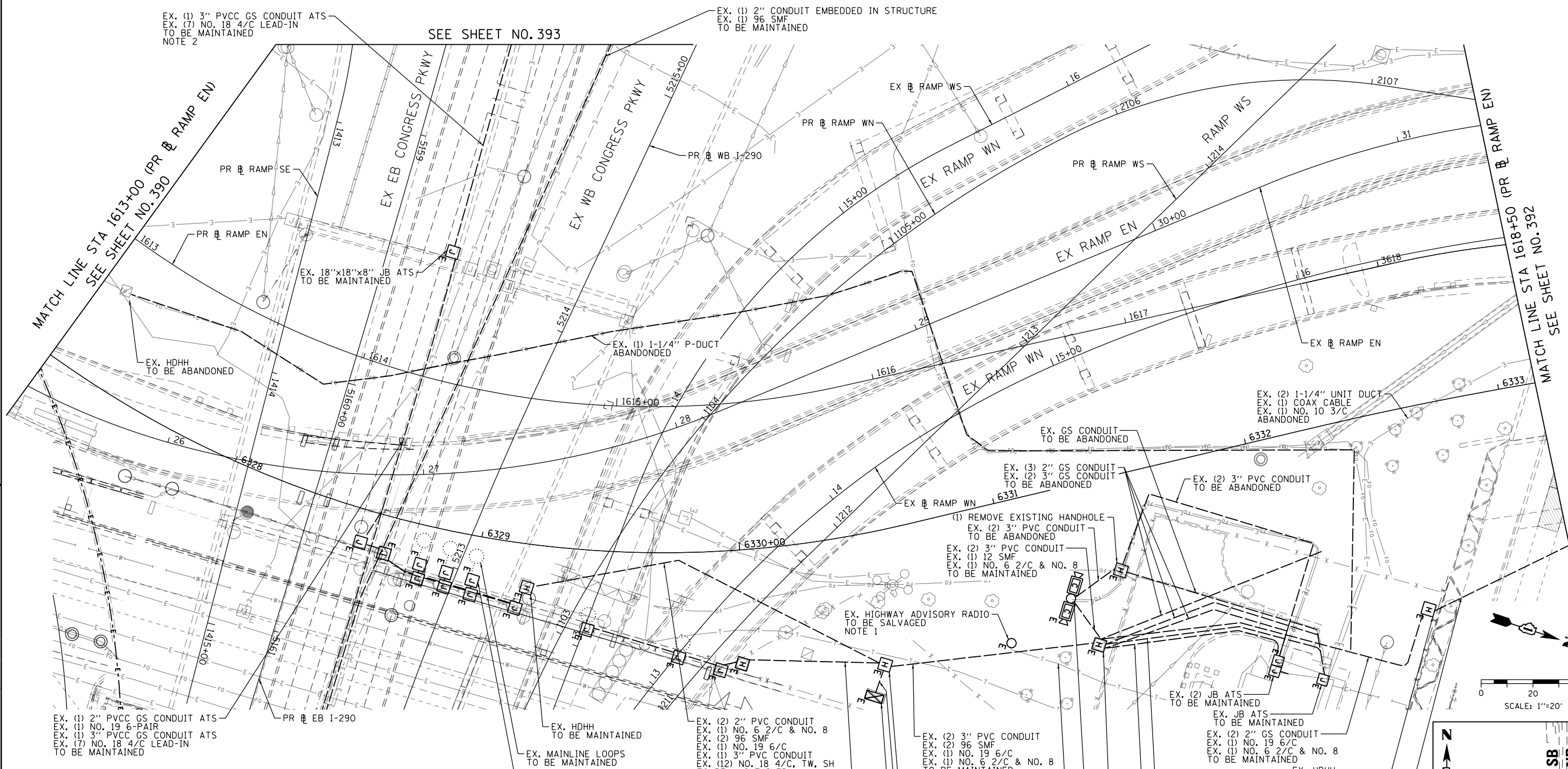
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY ITS PLAN  
 RAMP EN**

SCALE: 1"=20'    SHEET 3 OF 18 SHEETS    STA. 1607+50 TO STA. 1613+00

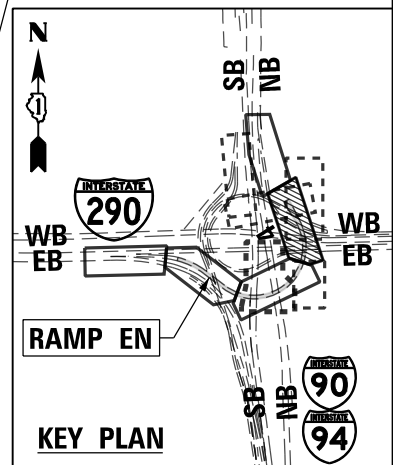
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	390
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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**NOTES:**

1. REMOVE EXISTING SURVEILLANCE EQUIPMENT (SALVAGE) AND TURN OVER TO IDOT DISTRICT 1. THIS WORK WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE "REMOVE EXISTING TRAFFIC SURVEILLANCE EQUIPMENT" PAY ITEM.
2. MAINTAIN THE EXISTING DETECTION CABLE IN THE EXISTING CONDUIT UNTIL CABINET Z4 IS RELOCATED AND NEW INFRASTRUCTURE IS INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.



ITS-04



D160X79-sht-ITS-04  
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DATE - 7-30-2018	REVISED -

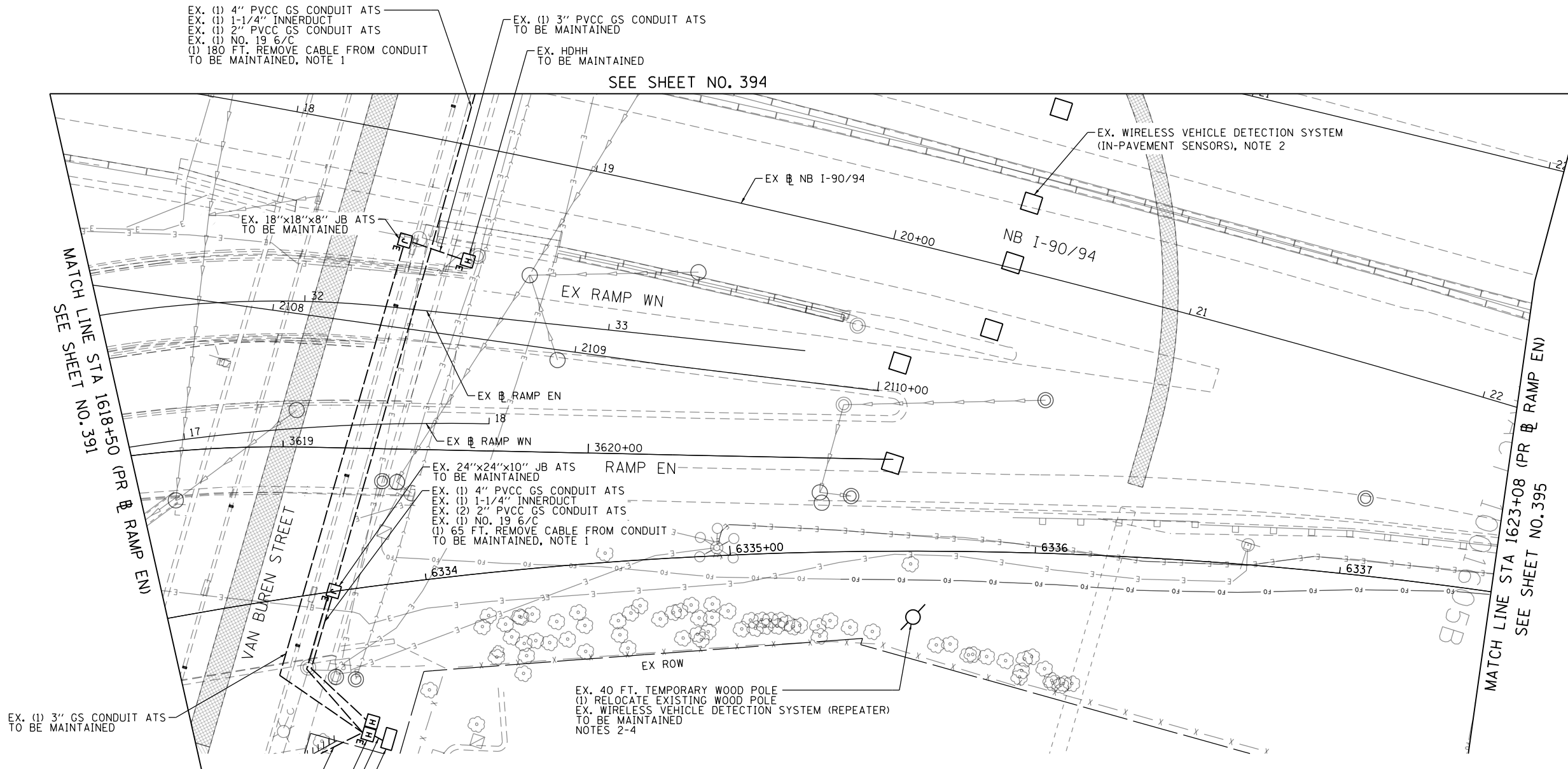
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY ITS PLAN  
 RAMP EN**

SCALE: 1"=20' SHEET 4 OF 18 SHEETS STA. 1613+00 TO STA. 1618+50

F.A.I. RTE. 90/94/290	SECTION 2014-005R&B	COUNTY COOK	TOTAL SHEETS 888	SHEET NO. 391
CONTRACT NO. 60X79				ILLINOIS FED. AID PROJECT

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EX. (1) 4" PVCC GS CONDUIT ATS  
 EX. (1) 1-1/4" INNERDUCT  
 EX. (1) 2" PVCC GS CONDUIT ATS  
 EX. (1) NO. 19 6/C  
 (1) 180 FT. REMOVE CABLE FROM CONDUIT TO BE MAINTAINED, NOTE 1

EX. (1) 3" PVCC GS CONDUIT ATS TO BE MAINTAINED  
 EX. HDHH TO BE MAINTAINED

SEE SHEET NO. 394

EX. WIRELESS VEHICLE DETECTION SYSTEM (IN-PAVEMENT SENSORS), NOTE 2

EX. 24"x24"x10" JB ATS TO BE MAINTAINED  
 EX. (1) 4" PVCC GS CONDUIT ATS  
 EX. (1) 1-1/4" INNERDUCT  
 EX. (2) 2" PVCC GS CONDUIT ATS  
 EX. (1) NO. 19 6/C  
 (1) 65 FT. REMOVE CABLE FROM CONDUIT TO BE MAINTAINED, NOTE 1

EX. 40 FT. TEMPORARY WOOD POLE  
 (1) RELOCATE EXISTING WOOD POLE  
 EX. WIRELESS VEHICLE DETECTION SYSTEM (REPEATER) TO BE MAINTAINED  
 NOTES 2-4

EX. (1) 3" GS CONDUIT ATS TO BE MAINTAINED

EX. (2) 3" GS CONDUIT  
 EX. (1) NO. 19 6/C  
 TO BE MAINTAINED

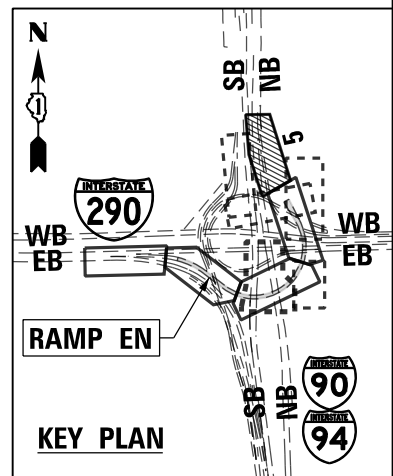
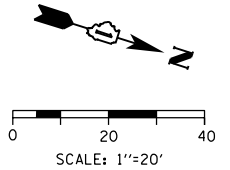
EX. (2) HDHH TO BE MAINTAINED

EX. (2) 4" GS CONDUIT  
 EX. (2) 2" GS CONDUIT  
 EX. (1) 1" GS CONDUIT

EX. TYPE D FOUNDATION TO BE MAINTAINED

**NOTES:**

1. MAINTAIN THE EXISTING IDOT ITS SYSTEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. WIRELESS VEHICLE DETECTION SYSTEM IN-PAVEMENT DETECTORS TO BE CENTERED IN EACH MAINLINE AND RAMP LANE. REMOVE AND RELOCATE LANE SENSORS AS NECESSARY TO ALLOW FOR RAMP LANE REALIGNMENT, RETAINING WALL INSTALLATION, AND OTHER WORK AS IDENTIFIED IN THESE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
3. THE WIRELESS VEHICLE DETECTION SYSTEM RADIOS REQUIRE LINE OF SIGHT. THE CONTRACTOR SHALL LOCATE THE SYSTEM SO THAT EXISTING TREES WILL NOT IMPEDE THE WIRELESS SIGNAL BETWEEN THE POLE MOUNTED EQUIPMENT. THE RELOCATION OF TEMPORARY WOOD POLES TO MAINTAIN THE WIRELESS VEHICLE DETECTION SYSTEM AND THE REQUIRED LINE OF SIGHT WILL BE INCLUDED IN THE COST OF THE "RELOCATE EXISTING WOOD POLE" PAY ITEM.
4. TEMPORARY WOOD POLES AND SENSYS NETWORKS SYSTEM TO REMAIN BEYOND THIS CONTRACT AND ARE TO BE TURNED OVER TO IDOT AT THE END OF THE PROJECT.



ITS-05



D16079-sht-ITS-05	DESIGNED - PTJ	REVISED -
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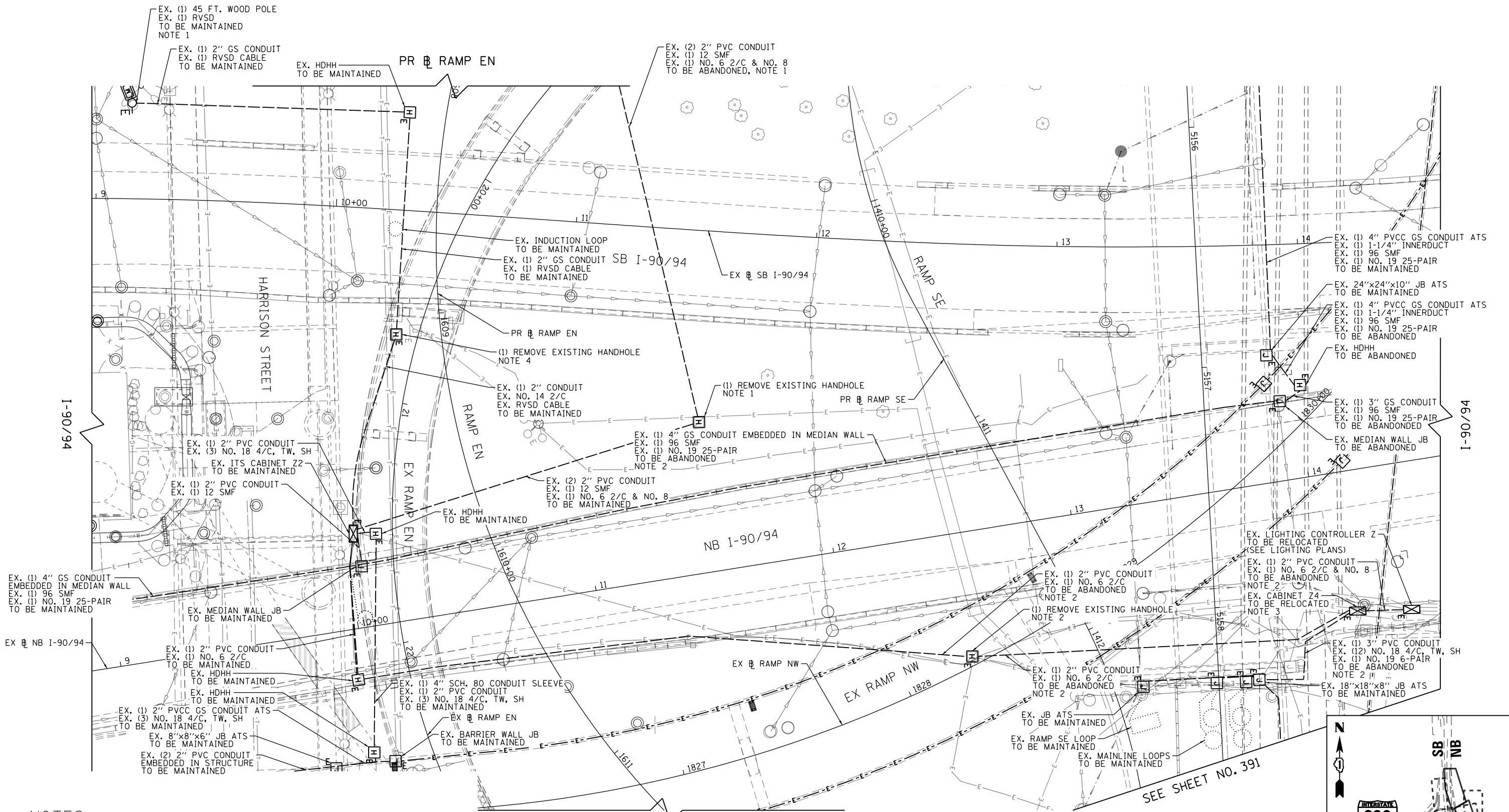
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING/TEMPORARY ITS PLAN  
 RAMP EN

SCALE: 1"=20' SHEET 5 OF 18 SHEETS STA. 1618+50 TO STA. 1623+00

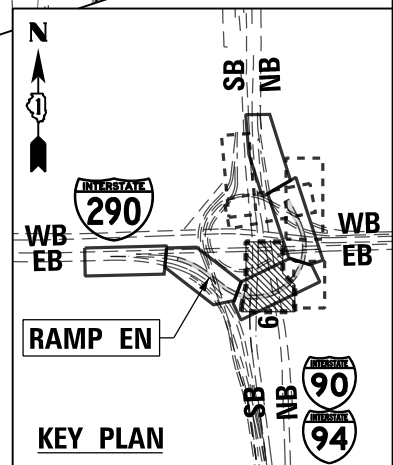
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	392
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

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**NOTES:**

1. MAINTAIN THE EXISTING CCTV CAMERA CABLES, RVSD DETECTOR SYSTEM AND RVSD CABLES IN THE EXISTING CONDUITS, HEAVY DUTY HANDHOLES, AND JUNCTION BOXES. THIS WORK SHALL INCLUDE THE ADJUSTMENT OF RVSD DETECTORS AS NECESSARY IN COORDINATION WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING. CCTV CAMERA AND RVSD MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. MAINTAIN THE EXISTING FIBER OPTIC, COMMUNICATION, DETECTION CABLES IN THE EXISTING CONDUITS, HEAVY DUTY HANDHOLES, AND JUNCTION BOXES UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. ALL WORK REQUIRED TO MAINTAIN ITS INFRASTRUCTURE AS DEPICTED IN THESE PLANS OR OTHERWISE NECESSARY SHALL BE PAID FOR UNDER THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM. SEE THE ASSOCIATED SPECIAL PROVISION FOR ADDITIONAL INFORMATION.
3. EXISTING CABINET TO BE RELOCATED TO NEW CONCRETE FOUNDATION (SEE SHEET ITS-12).
4. PULL CABLES BACK TO CABINET Z2 WHILE PROPOSED CONDUIT CONNECTIONS ARE INSTALLED. SEE PROPOSED PLANS ON ITS-14.



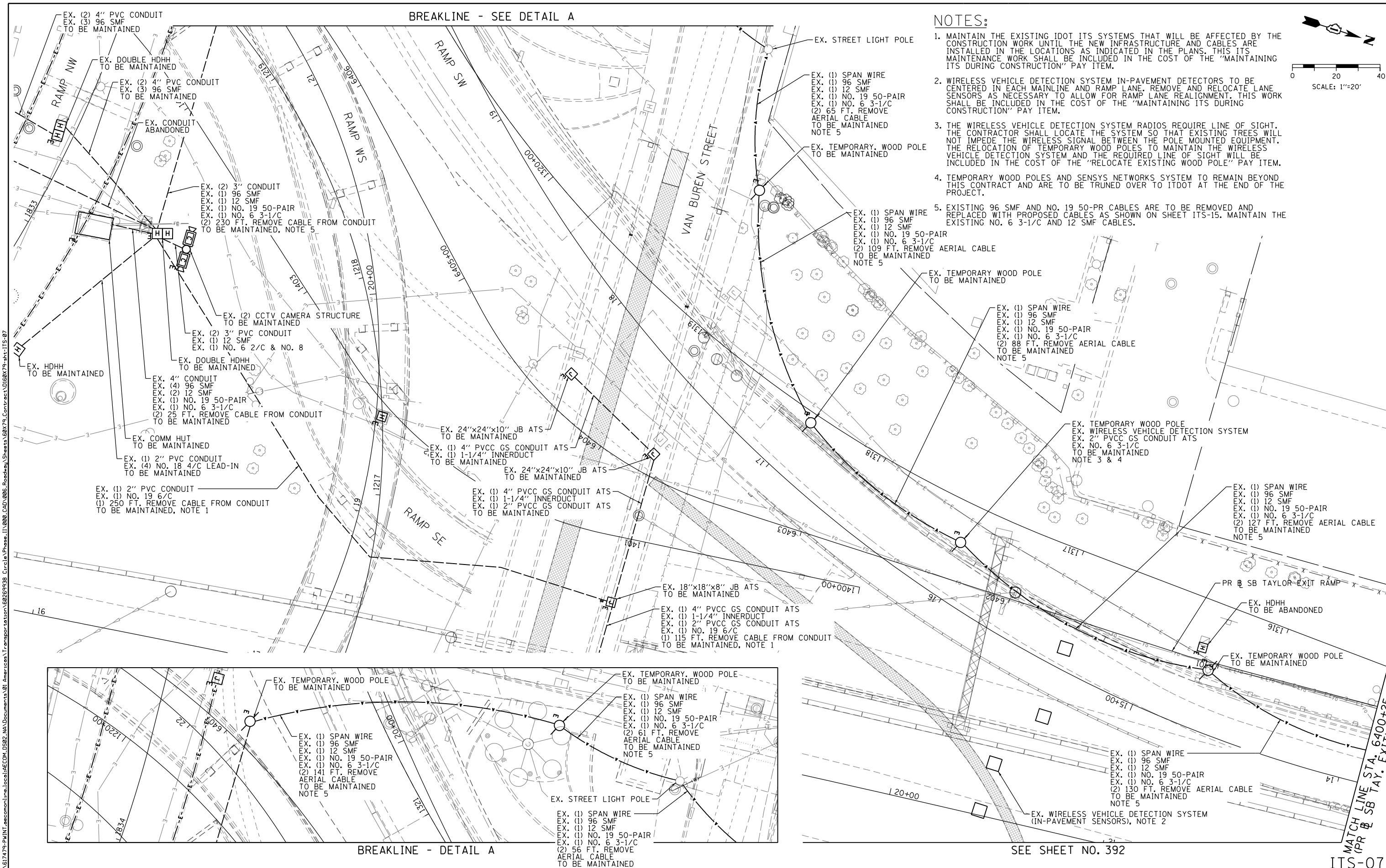
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	PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>EXISTING/TEMPORARY ITS PLAN RAMP EN</b>	
SCALE: 1"=20'	SHEET 6 OF 18 SHEETS STA. 1608+00 TO STA. 1611+00

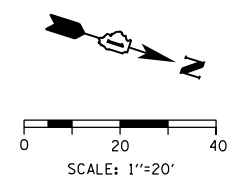
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CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. MAINTAIN THE EXISTING IDOT ITS SYSTEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. WIRELESS VEHICLE DETECTION SYSTEM IN-PAVEMENT DETECTORS TO BE CENTERED IN EACH MAINLINE AND RAMP LANE. REMOVE AND RELOCATE LANE SENSORS AS NECESSARY TO ALLOW FOR RAMP LANE REALIGNMENT. THIS WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
3. THE WIRELESS VEHICLE DETECTION SYSTEM RADIOS REQUIRE LINE OF SIGHT. THE CONTRACTOR SHALL LOCATE THE SYSTEM SO THAT EXISTING TREES WILL NOT IMPEDE THE WIRELESS SIGNAL BETWEEN THE POLE MOUNTED EQUIPMENT. THE RELOCATION OF TEMPORARY WOOD POLES TO MAINTAIN THE WIRELESS VEHICLE DETECTION SYSTEM AND THE REQUIRED LINE OF SIGHT WILL BE INCLUDED IN THE COST OF THE "RELOCATE EXISTING WOOD POLE" PAY ITEM.
4. TEMPORARY WOOD POLES AND SENSYS NETWORKS SYSTEM TO REMAIN BEYOND THIS CONTRACT AND ARE TO BE TRUNED OVER TO ITDOT AT THE END OF THE PROJECT.
5. EXISTING 96 SMF AND NO. 19 50-PR CABLES ARE TO BE REMOVED AND REPLACED WITH PROPOSED CABLES AS SHOWN ON SHEET ITS-15. MAINTAIN THE EXISTING NO. 6 3-1/C AND 12 SMF CABLES.



BREAKLINE - SEE DETAIL A

BREAKLINE - DETAIL A

SEE SHEET NO. 392

ITS-07

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D160X79-shr-ITS-07  
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 PLOT SCALE = 40.0000' / in.  
 PLOT DATE = 7/26/2018

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 7-30-2018	REVISED -

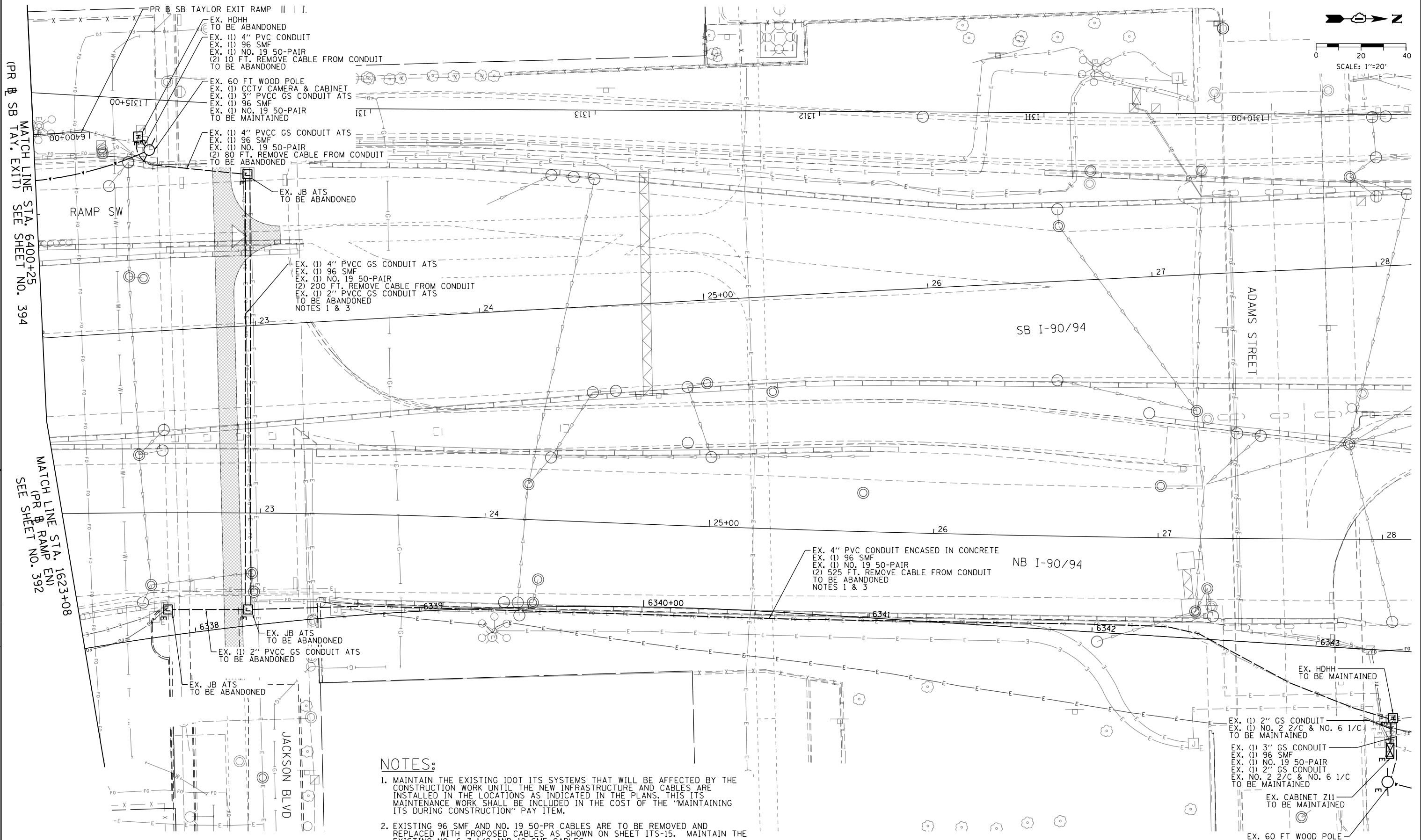
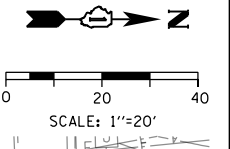
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY ITS PLAN**  
**RAMP EN**

SCALE: 1"=20'    SHEET 7 OF 18 SHEETS    STA. TO STA. 6400+25

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	394
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				





**NOTES:**

1. MAINTAIN THE EXISTING IDOT ITS SYSTEMS THAT WILL BE AFFECTED BY THE CONSTRUCTION WORK UNTIL THE NEW INFRASTRUCTURE AND CABLES ARE INSTALLED IN THE LOCATIONS AS INDICATED IN THE PLANS. THIS ITS MAINTENANCE WORK SHALL BE INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM.
2. EXISTING 96 SMF AND NO. 19 50-PR CABLES ARE TO BE REMOVED AND REPLACED WITH PROPOSED CABLES AS SHOWN ON SHEET ITS-15. MAINTAIN THE EXISTING NO. 6 3-1/C AND 12 SMF CABLES.
3. 96 SMF AND NO. 19 50-PAIR CABLES TO BE REMOVED ARE TO BE SALVAGED AND RETURNED TO IDOT DISTRICT 1 ELECTRICAL MAINTENANCE.

MATCH LINE STA. 6400+25 (PR & SB TAY. EXITS) SEE SHEET NO. 394

MATCH LINE STA. 1623+08 (PR & RAMP EN) SEE SHEET NO. 392

ITS-08



D160X79-sht-ITS-08
USER NAME = myersc
PLOT SCALE = 40.0000' / in.
PLOT DATE = 7/26/2018

DESIGNED - PTJ	REVISED -
DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 7-30-2018	REVISED -

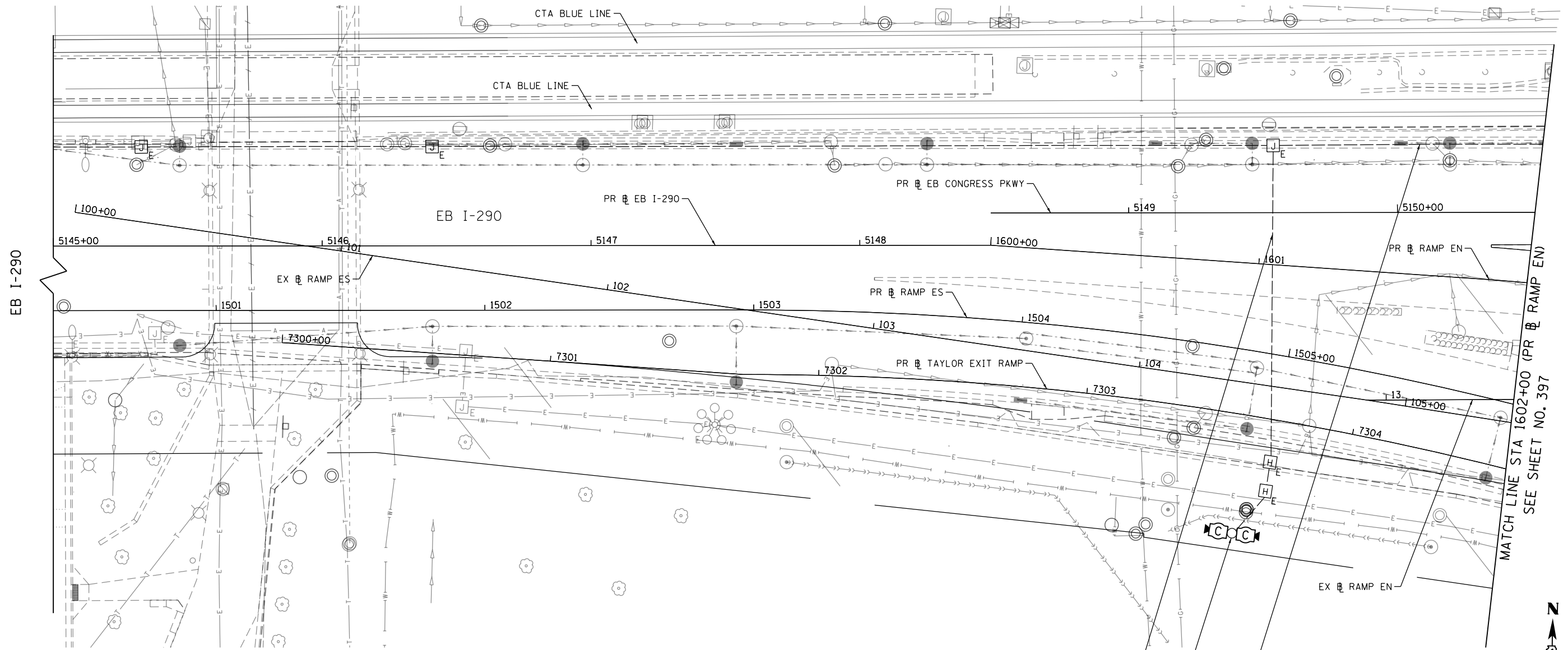
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING/TEMPORARY ITS PLAN  
RAMP EN**

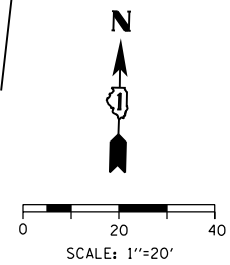
SCALE: 1"=20' SHEET 8 OF 18 SHEETS STA. 6400+25 TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	395
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

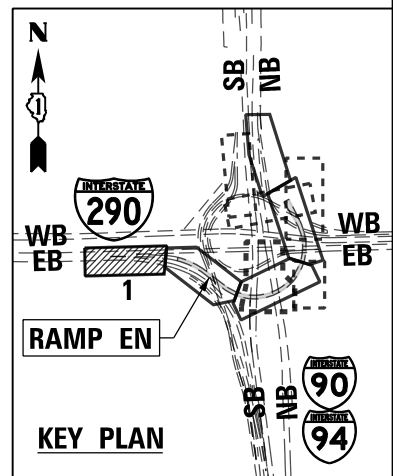
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- (1) FIBER OPTIC CABLE, 12 FIBERS, SINGLE MODE
  - (2) NO. 6 1/C & (1) NO. 8 1/C
  - (PROPOSED BY OTHERS, CONTRACT 60X93)
- EX. CLOSED CIRCUIT TELEVISION CAMERA STRUCTURE  
 (2) CLOSED CIRCUIT TELEVISION DOME CAMERA, HD  
 (1) CLOSED CIRCUIT TELEVISION EQUIPMENT, FIBER OPTIC DISTRIBUTION  
 (1) CLOSED CIRCUIT TELEVISION CAMERA CABINET, ATS  
 (PROPOSED BY OTHERS, CONTRACT 60X93)
- (1) FIBER OPTIC CABLE, 12 FIBERS, SINGLE MODE
  - (2) NO. 6 1/C & (1) NO. 8 1/C
  - (PROPOSED BY OTHERS, CONTRACT 60X93)



NO PROPOSED WORK ON THIS SHEET



ITS-09



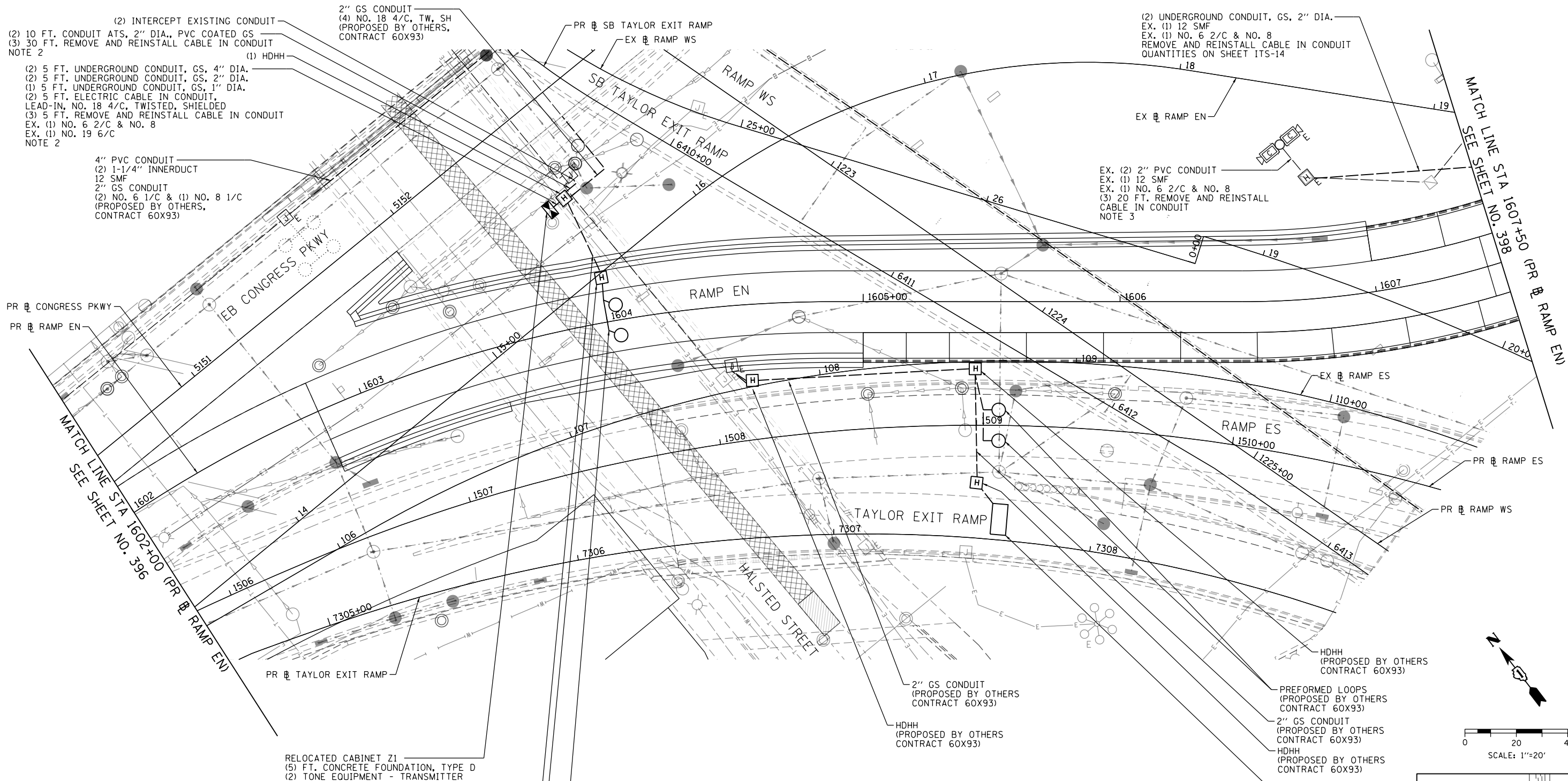
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USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED ITS PLAN  
RAMP EN**

SCALE: 1"=20' SHEET 9 OF 18 SHEETS STA. 1600+00 TO STA. 1602+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	396
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



(2) INTERCEPT EXISTING CONDUIT  
 (2) 10 FT. CONDUIT ATS, 2" DIA., PVC COATED GS  
 (3) 30 FT. REMOVE AND REINSTALL CABLE IN CONDUIT  
 NOTE 2  
 (1) HDHH  
 (2) 5 FT. UNDERGROUND CONDUIT, GS, 4" DIA.  
 (2) 5 FT. UNDERGROUND CONDUIT, GS, 2" DIA.  
 (1) 5 FT. UNDERGROUND CONDUIT, GS, 1" DIA.  
 (2) 5 FT. ELECTRIC CABLE IN CONDUIT,  
 LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED  
 (3) 5 FT. REMOVE AND REINSTALL CABLE IN CONDUIT  
 EX. (1) NO. 6 2/C & NO. 8  
 EX. (1) NO. 19 6/C  
 NOTE 2

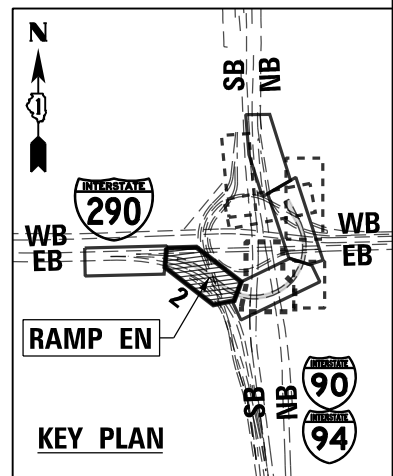
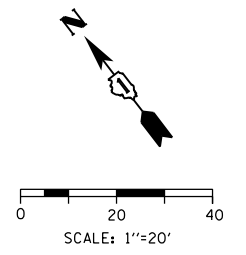
4" PVC CONDUIT  
 (2) 1-1/4" INNERDUCT  
 12 SMF  
 2" GS CONDUIT  
 (2) NO. 6 1/C & (1) NO. 8 1/C  
 (PROPOSED BY OTHERS,  
 CONTRACT 60X93)

(2) UNDERGROUND CONDUIT, GS, 2" DIA.  
 EX. (1) 12 SMF  
 EX. (1) NO. 6 2/C & NO. 8  
 REMOVE AND REINSTALL CABLE IN CONDUIT  
 QUANTITIES ON SHEET ITS-14  
 EX. (2) 2" PVC CONDUIT  
 EX. (1) 12 SMF  
 EX. (1) NO. 6 2/C & NO. 8  
 (3) 20 FT. REMOVE AND REINSTALL  
 CABLE IN CONDUIT  
 NOTE 3

RELOCATED CABINET Z1  
 (5) FT. CONCRETE FOUNDATION, TYPE D  
 (2) TONE EQUIPMENT - TRANSMITTER  
 (2) TONE EQUIPMENT - RECEIVER  
 (1) DIGITAL LOOP DETECTOR SENSOR  
 UNIT, 4-CHANNEL

(1) 35 FT. UNDERGROUND CONDUIT, GS, 2" DIA.  
 (2) 35 FT. ELECTRIC CABLE IN  
 CONDUIT, LEAD-IN, NO. 18 4/C,  
 TWISTED, SHIELDED  
 (1) HDHH  
 (2) PREFORMED INDUCTION LOOP,  
 6" DIA., CENTERED IN EACH LANE

- NOTES:**
- ALL WORK SHOWN ON THIS DRAWING MUST BE COORDINATED BETWEEN CONTRACTS 60X79 AND 60X93 CONSTRUCTION WORK AND STAGING.
  - DISCONNECT, PULL BACK, COIL AND STORE COMMUNICATION AND POWER CABLES IN THE JUNCTION BOX ATTACHED TO THE HALSTED PIER WHILE CABINET Z1 IS RELOCATED TO THE NEW FOUNDATION. REINSTALL AND RECONNECT CABLES IN NEW CONDUIT UPON RELOCATING THE CABINET.
  - DISCONNECT AND PULL BACK CCTV FIBER OPTIC AND POWER CABLES TO CABINET Z2. REINSTALL CABLES VIA NEW HANDHOLE AND CONDUIT AND RECONNECT TO THE CCTV EQUIPMENT CABINET.



ITS-10

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 PLOT DATE = 7/26/2018

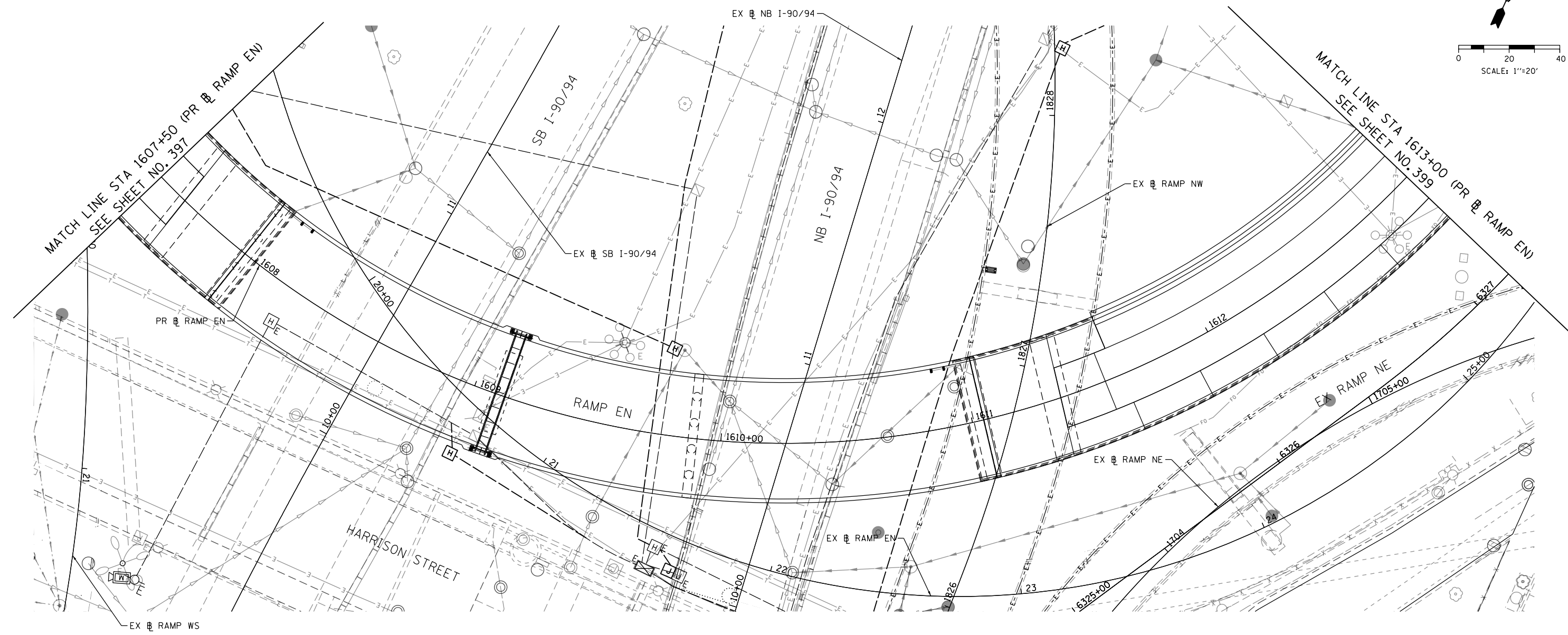
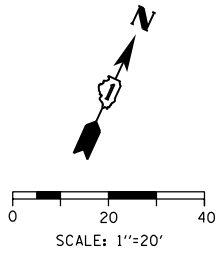
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DRAWN - CAM	REVISED -
CHECKED - MJL	REVISED -
DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

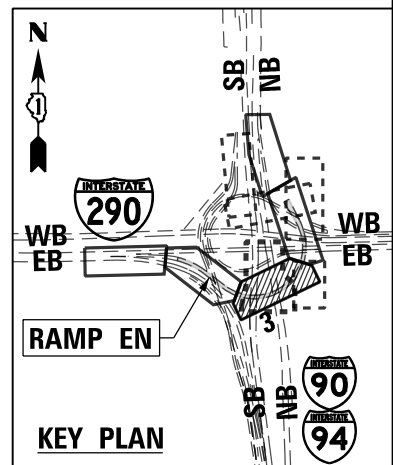
**PROPOSED ITS PLAN  
 RAMP EN**

SCALE: 1"=20' SHEET 10 OF 18 SHEETS STA. 1602+00 TO STA. 1607+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	397
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				



**NOTES:**  
 1. SEE CALLOUTS AND QUANTITIES FOR PROPOSED WORK ON ITS-14.



ITS-11

FILE PATH = p:\61779-PMINT\pccommon\line\local\AECOM\0902\_NA\Documents\01\_Americas\T\engpccommon\60269938\_Circle\Phase\_11\000\_CAD\006\_Roadway\Sheets\60X79\_Contract\0160X79-sht-ITS-11



D160X79-sht-ITS-11	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ITS PLAN  
 RAMP EN**

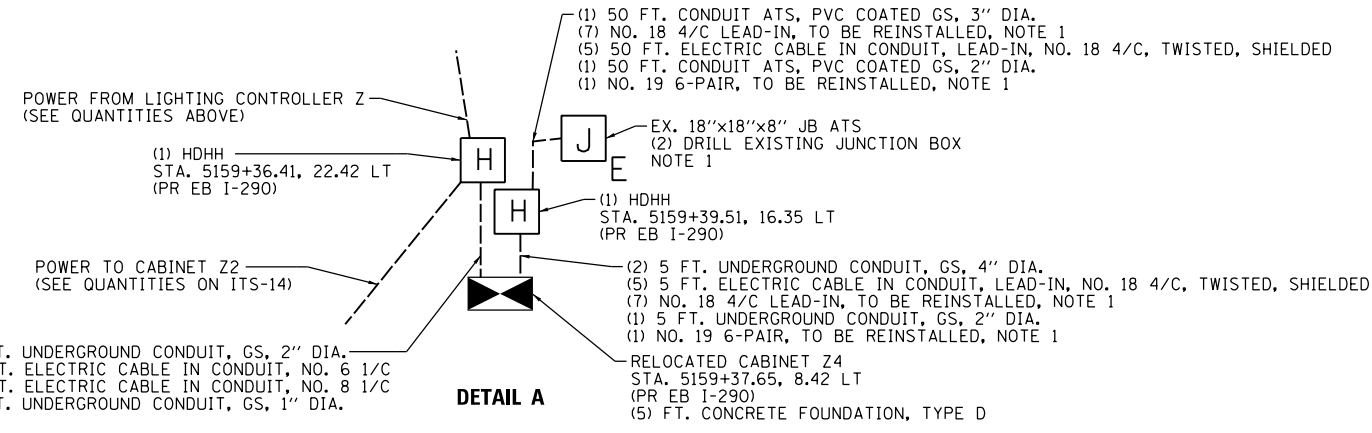
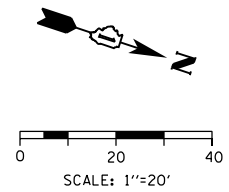
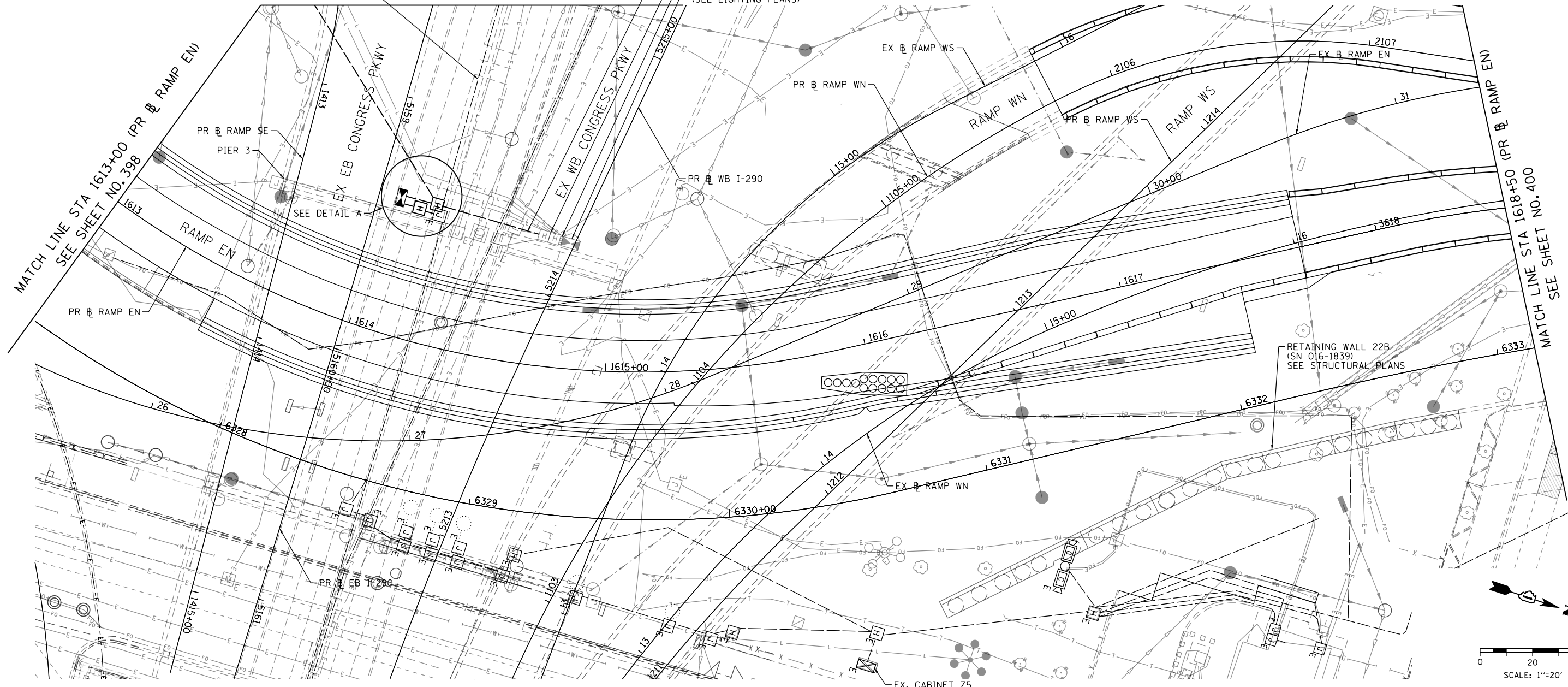
SCALE: 1"=20' SHEET 11 OF 18 SHEETS STA. 1607+50 TO STA. 1613+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	398
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				

EX. 3" PVCC GS CONDUIT ATS  
 (8) 270 FT. REMOVE AND REINSTALL CABLE IN CONDUIT, NOTE 1  
 (5) 135 FT. ELECTRIC CABLE IN CONDUIT, LEAD-IN,  
 NO. 18 4/C, TWISTED, SHIELDED, NOTE 2

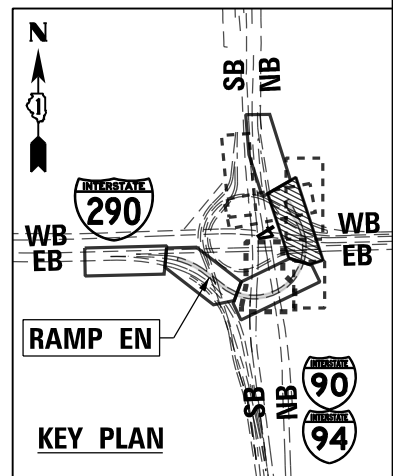
SEE SHEET NO. 401

(1) 45 FT. UNDERGROUND CONDUIT, GS, 2" DIA.  
 (2) 45 FT. ELECTRIC CABLE IN CONDUIT, NO. 6 1/C  
 (1) 45 FT. ELECTRIC CABLE IN CONDUIT, NO. 8 1/C  
 DOUBLE HDHH  
 (SEE LIGHTING PLANS)  
 EX. 4" PVC CONDUIT  
 (2) 5 FT. ELECTRIC CABLE IN CONDUIT, NO. 6 1/C  
 (1) 5 FT. ELECTRIC CABLE IN CONDUIT, NO. 8 1/C  
 LIGHTING CONTROLLER Z  
 (SEE LIGHTING PLANS)



**NOTES:**

- DISCONNECT AND PULL BACK THE SEVEN (7) DETECTION CABLES AND ONE (1) COMMUNICATION CABLE FROM CABINET Z4 TO THE JUNCTION BOX ATTACHED TO PIER 3. INSTALL THE DETECTION CABLES THROUGH THE NEW 3" CONDUIT AND THE COMMUNICATION CABLE THROUGH THE NEW 2" CONDUIT ATTACHED TO PIER 3 TO THE RELOCATED CABINET Z4 LOCATION. THE SEVEN DETECTION CABLES ORIGINATE FROM THE EASTBOUND CONGRESS STRUCTURE AND THE ONE COMMUNICATION CABLE ORIGINATES FROM CABINET Z5.
- SPLICE THE FIVE (5) NEW DETECTION CABLES WITH EXISTING CABLES IN THE EXISTING JUNCTION BOX ATTACHED TO PIER 2.



ITS-12



D160X79-sht-ITS-12	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ITS PLAN  
 RAMP EN**

SCALE: 1"=20' SHEET 12 OF 18 SHEETS STA. 1613+00 TO STA. 1618+50

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	399
CONTRACT NO. 60X79				

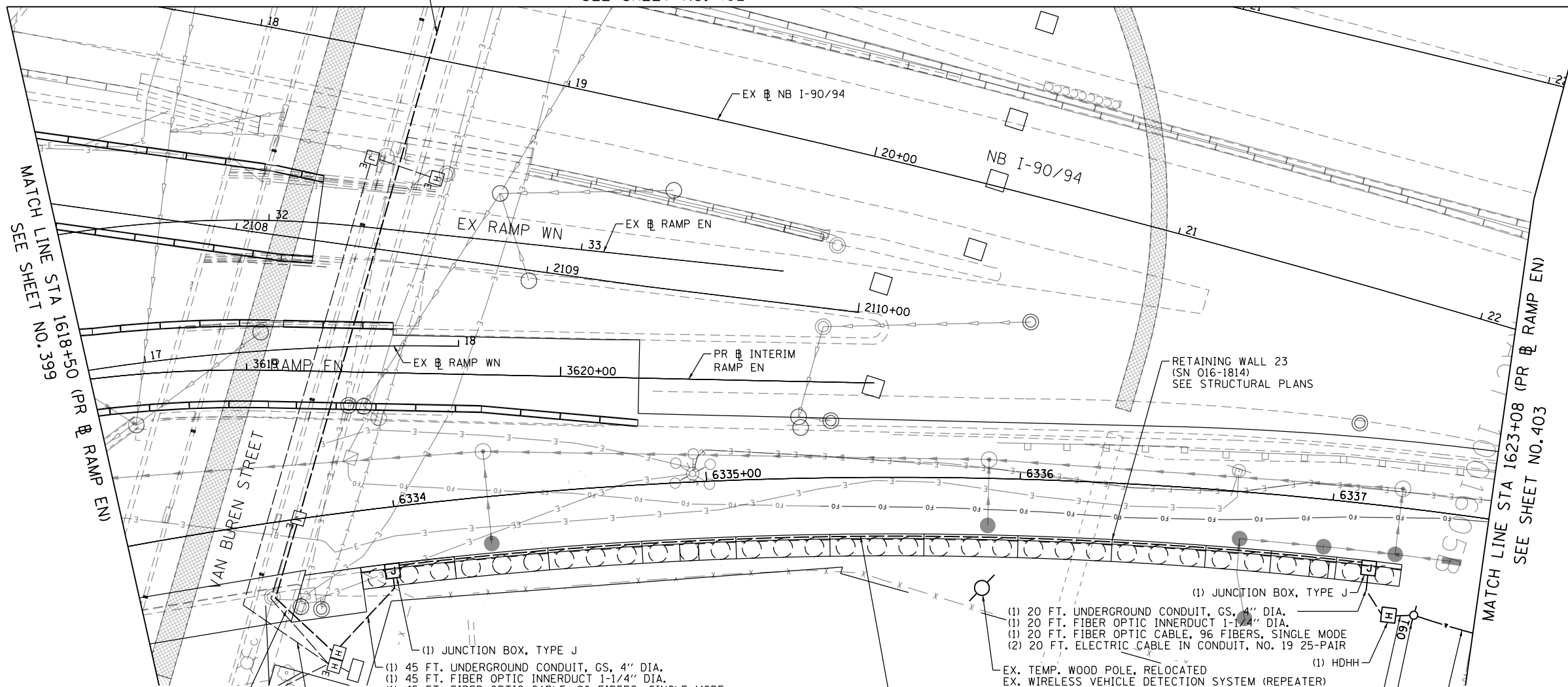
ILLINOIS FED. AID PROJECT

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EX. (1) 4" PVCC GS CONDUIT, ATS  
 EX. (1) FIBER OPTIC INNERDUCT, 1-1/4" DIA.  
 (1) 370 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 370 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR

SEE SHEET NO. 402



EX. (1) 4" PVCC GS CONDUIT, ATS  
 EX. (1) FIBER OPTIC INNERDUCT, 1-1/4" DIA.  
 (1) 40 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 40 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR

NOTES 1 AND 4

(1) JUNCTION BOX, TYPE J  
 (1) 45 FT. UNDERGROUND CONDUIT, GS, 4" DIA.  
 (1) 45 FT. FIBER OPTIC INNERDUCT 1-1/4" DIA.  
 (1) 45 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 45 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR

(1) JUNCTION BOX, TYPE J  
 (1) 20 FT. UNDERGROUND CONDUIT, GS, 4" DIA.  
 (1) 20 FT. FIBER OPTIC INNERDUCT 1-1/4" DIA.  
 (1) 20 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 20 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR  
 EX. TEMP. WOOD POLE, RELOCATED  
 EX. WIRELESS VEHICLE DETECTION SYSTEM (REPEATER)

(1) 310 FT. CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC  
 (1) 310 FT. FIBER OPTIC INNERDUCT 1-1/4" DIA.  
 (1) 310 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 310 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR

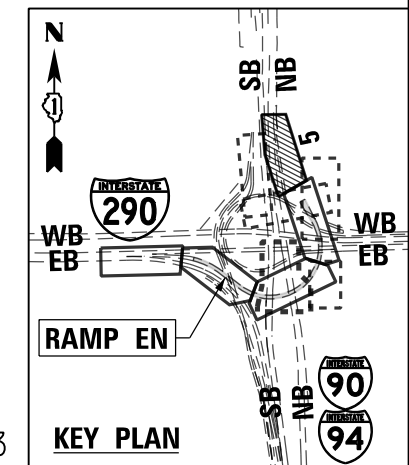
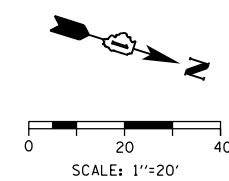
(1) 10 FT. UNDERGROUND CONDUIT, GS, 3" DIA.  
 (1) 10 FT. FIBER OPTIC CABLE, 96 FIBERS, SINGLE MODE  
 (2) 10 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR

(1) TEMPORARY WOOD POLE, 60 FT., CLASS 4  
 (1) 55 FT. CONDUIT ATS, PVC COATED GS, 3" DIA.  
 (1) 55 FT. FIBER OPTIC CABLE IN CONDUIT, 96 FIBERS, SINGLE MODE  
 (2) 55 FT. ELECTRIC CABLE IN CONDUIT, NO. 19 25-PAIR  
 NOTES 2 AND 3

(1) 130 FT. SPAN WIRE  
 (1) 130 FT. FIBER OPTIC CABLE, AERIAL, 96 FIBERS, SINGLE MODE  
 (2) 130 FT. ELECTRIC CABLE, AERIAL INSTALLATION, NO. 19 25-PAIR

**NOTES:**

- THE EXISTING NO. 19 6/C CABLE FROM CABINET Z5 IS TO BE SPLICED INTO THE SET OF TWO NO. 19 25-PAIR CABLES IN THE DOUBLE HANDHOLE. PROVIDE 25 FT OF SLACK FOR NO. 19 6/C CABLE TO REMAIN IN THE DOUBLE HANDHOLE FOR FUTURE USE.
- INSTALL 50 FEET OF SLACK ON ALL CABLES ON EACH WOOD POLE.
- TEMPORARY WOOD POLES TO REMAIN BEYOND THIS CONTRACT AND ARE TO BE TURNED OVER TO IDOT AT THE END OF THE PROJECT.
- CONNECT 4" GS UNDERGROUND CONDUIT TO EXISTING HANDHOLE BY UTILIZING DRILLED HOLE FROM EXISTING FOUR FOOT CONDUIT STUBBED IN A PRIOR CONTRACT.
- THE LOCATIONS OF THE ITS EQUIPMENT SHOWN ON THE PLANS ARE APPROXIMATIONS. THE FINAL INSTALLATION LOCATIONS OF THE ITS EQUIPMENT SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING ANY WORK TO IDENTIFY ANY CONFLICTS WITH EXISTING/PROPOSED UTILITIES AND WORK PERFORMED BY OTHER DISCIPLINES.



ITS-13

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D16079-sht-11S-13	DESIGNED - PTJ	REVISED -
USER NAME = myersc	DRAWN - CAM	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - MJL	REVISED -
PLOT DATE = 7/26/2018	DATE - 7-30-2018	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED ITS PLAN  
 RAMP EN

SCALE: 1"=20' SHEET 13 OF 18 SHEETS STA. 1618+50 TO STA. 1623+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-005R&B	COOK	888	400
CONTRACT NO. 60X79				
ILLINOIS FED. AID PROJECT				