

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
541.2	Dense to very dense, gray CLAY LOAM to SILTY LOAM, trace gravel --Dry--	45	15	8 12 20	5.74 B	13	518.0	Boring terminated at 65.00 ft	65	19	16 20 22	NP	22
	--L _c (%)=26, P _c (%)=15-- --%Gravel=5.1-- --%Sand=25.2-- --%Silt=47.0-- --%Clay=22.7-- --A-6 (5)--	50	16	13 20 20	NP	12			70				
528.5	5-inch, brown, coarse SAND	55	17	9 18 47	NP	12			75				
526.2	Dense to very dense, brown, fine SAND --Moist--	60	18	15 21 37	NP	22			80				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	07-20-2014	Complete Drilling	07-20-2014	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	D-50 TMR [78%]	At Completion of Drilling	mud in the borehole		
Driller	R&J	Logger	S. Woods	Checked by	C. Marin		
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring			Depth to Water	NA		
	backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
582.0	13-inch thick CONCRETE --PAVEMENT--						582.0	Medium dense, gray CRUSHED STONE --FILL--	9	0 1 2	0.25 P	22	
580.1	Very stiff, gray SILTY CLAY, trace gravel	25	10	0 0 0	0.41 B	26			25				
577.6	Medium stiff, gray CLAY to SILTY CLAY, trace gravel	30	11	0 0 0	0.33 B	27			30				
572.6	Soft, gray SILTY LOAM, trace gravel	35	12	0 0 2	0.41 B	25			35				
570.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel	40	13	1 3 3	0.90 B	26			40				
	--L _c (%)=38, P _c (%)=16-- --%Gravel=1.9-- --%Sand=10.7-- --%Silt=49.3-- --%Clay=38.0-- --A-6 (19)--												
		40	14	1 2 1	0.41 B	29			40				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-21-2013	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR [85%]	At Completion of Drilling	mud in the borehole		
Driller	P&N	Logger	A. Happel	Checked by	C. Marin		
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring			Depth to Water	NA		
	backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS			
SCALE: NONE	SHEET 15	OF 16 SHEETS	STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	302
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
541.4	Hard, gray SILTY CLAY LOAM, trace gravel	45	15	10 14 20	5.74	15	516.4	Dense, gray GRAVEL	65	19	19 23 23	NP	16
		50	16	10 15 21	4.10	21			70	20	16 26 31	NP	14
		55	17	12 18 27	10.09	15			75	21	5 20 34	NP	5
524.1	Dense, gray GRAVELLY SANDY LOAM	60	18	11 14 18	NP	14	506.4	Dense, gray, medium to coarse SAND, trace gravel	80	22	16 15 18	NP	14

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-21-2013	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR [85%]	At Completion of Drilling	mud in the borehole		
Driller	P&N	Logger	A. Happel	Checked by	C. Marin		
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring			Depth to Water	NA		
	backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
501.4	Very dense, gray GRAVEL	85	23	50/5	NP	21	497.1	Strong, excellent rock quality, light gray, fresh, joint breaks with little to no infill, slightly wuggy DOLOSTONE	90	1			
		95							95				
487.1	Boring terminated at 96.00 ft	100							100				

GENERAL NOTES				WATER LEVEL DATA			
Begin Drilling	06-20-2013	Complete Drilling	06-21-2013	While Drilling	Rotary wash		
Drilling Contractor	Wang Testing Services	Drill Rig	CME-55 TMR [85%]	At Completion of Drilling	mud in the borehole		
Driller	P&N	Logger	A. Happel	Checked by	C. Marin		
Drilling Method	2.25" SSA to 10', mud rotary thereafter, boring			Depth to Water	NA		
	backfilled upon completion			The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

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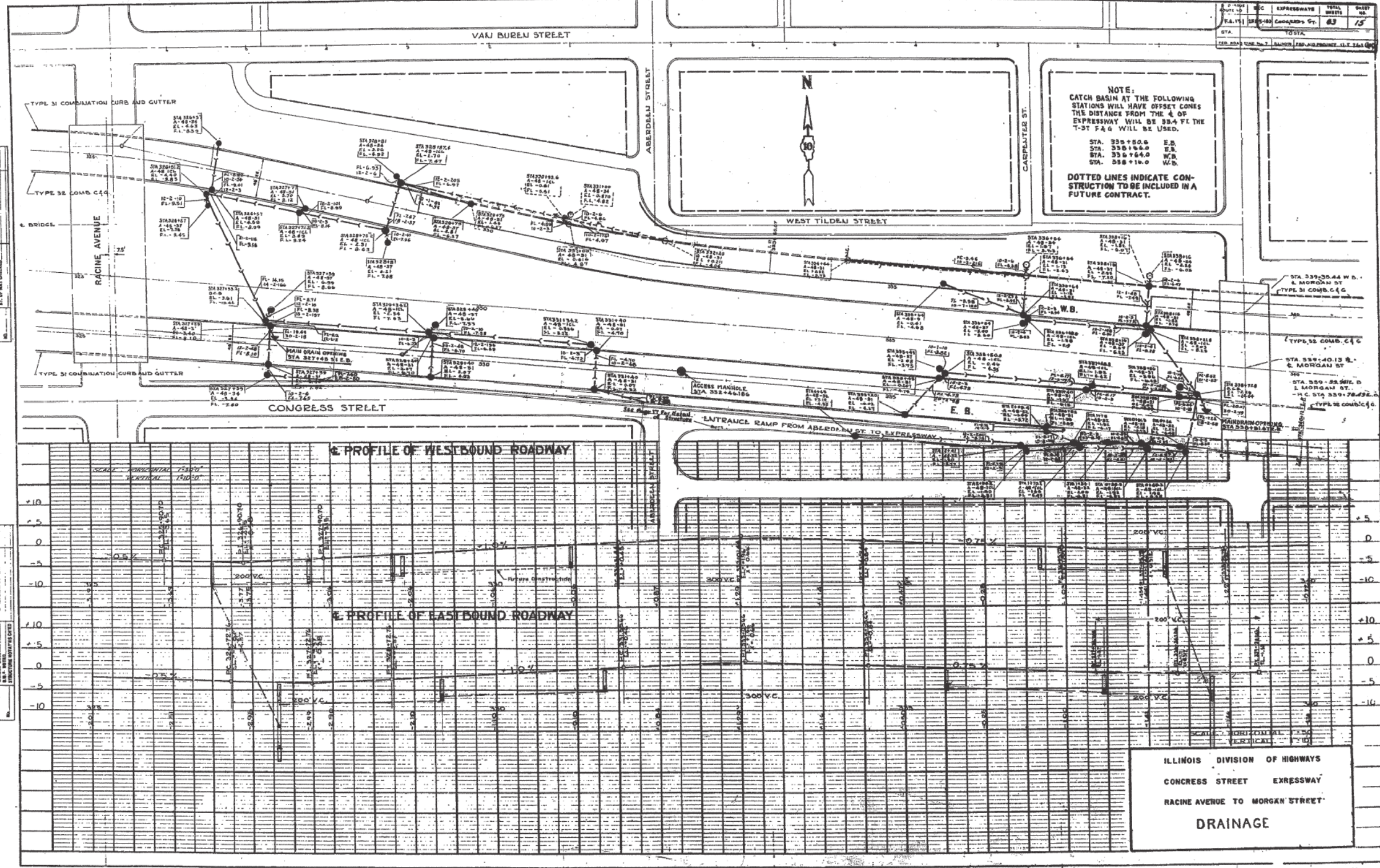
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS			
SCALE: NONE	SHEET 16	OF 16 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	303
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



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 DATE - 5/10/17

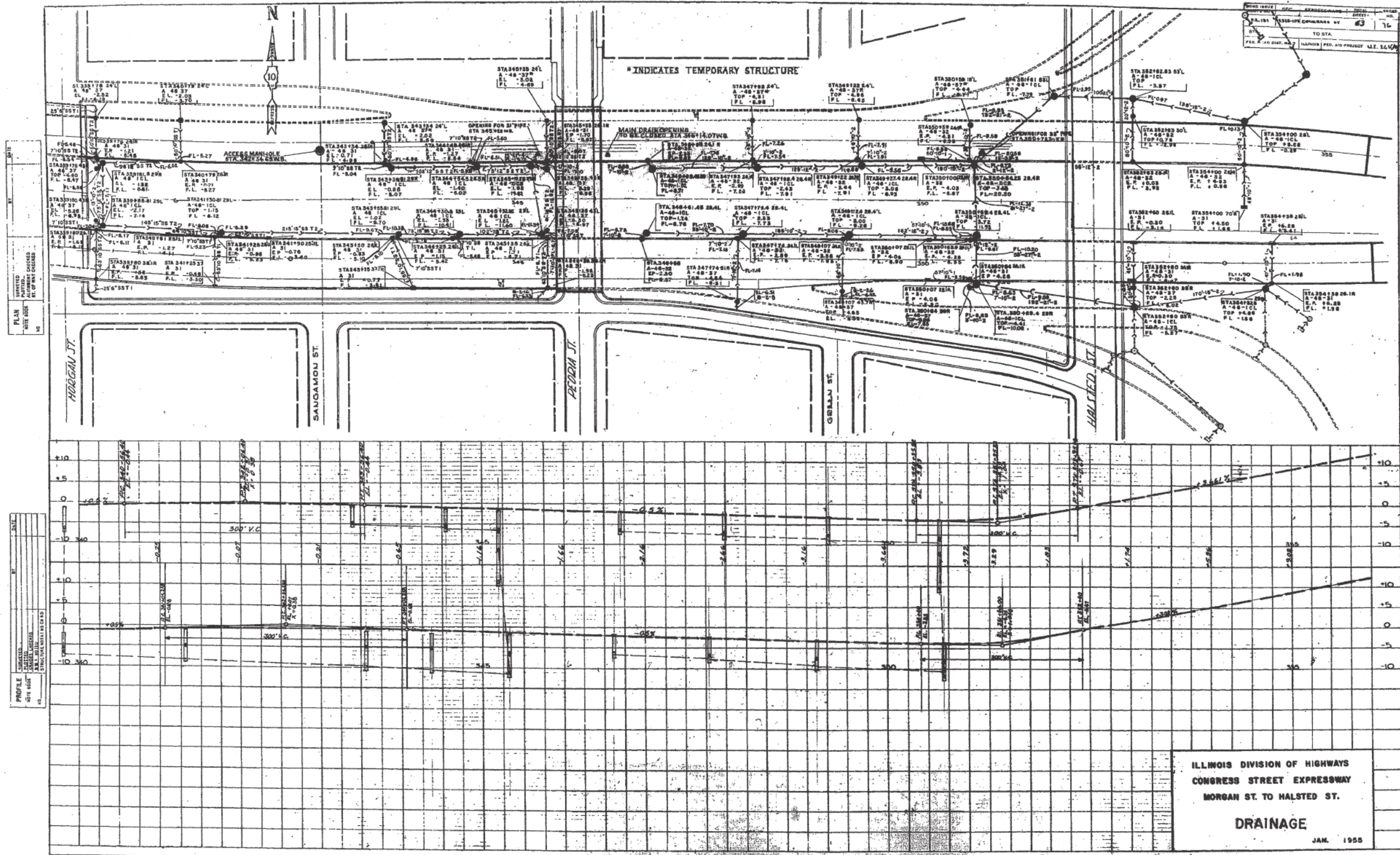
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL
 SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 304
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



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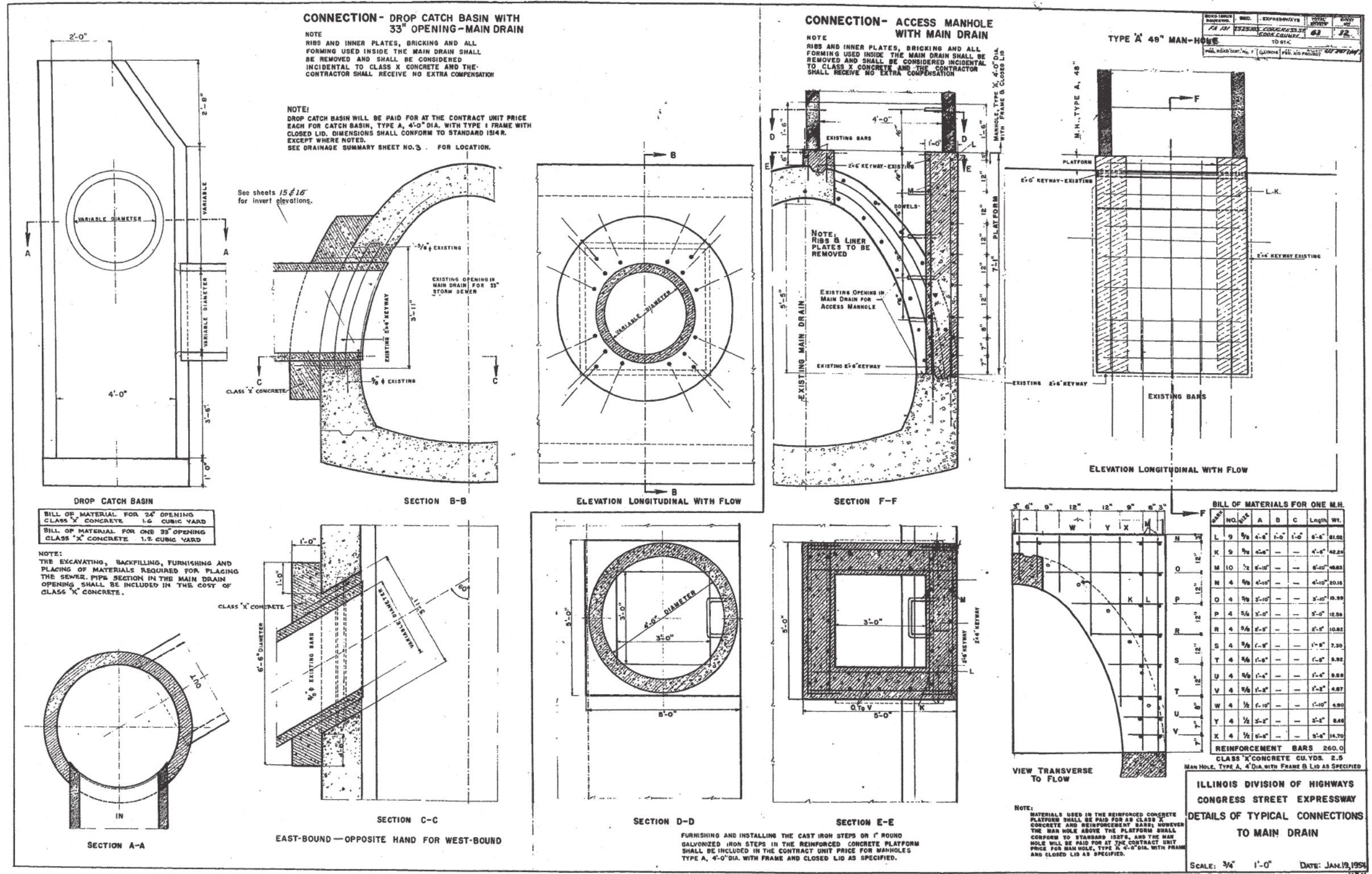
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL

SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	305
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



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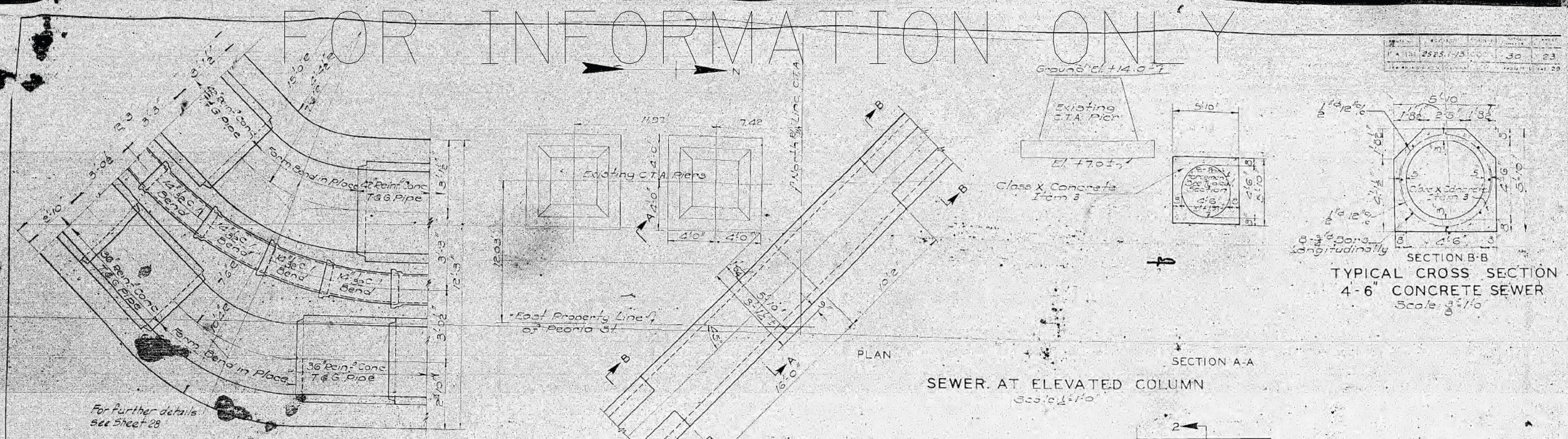
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL
SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. R.T.E. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 306
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

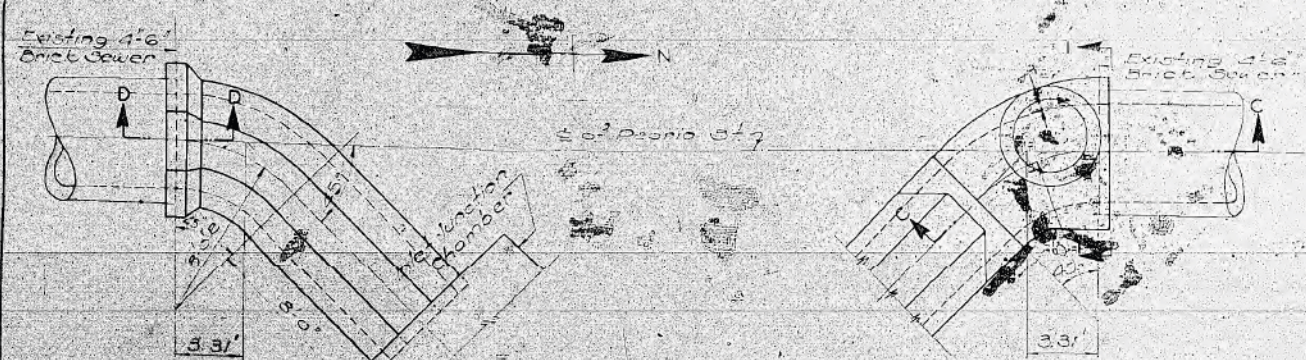
FOR INFORMATION ONLY

DATE	10/25/10	SCALE	30	23
SHEET NO. 23 OF 30 SHEETS				



PLAN OF BENDS AT SOUTH END
Scale 1/8" = 1'-0"

SEWER AT ELEVATED COLUMN
Scale 1/8" = 1'-0"



PLAN

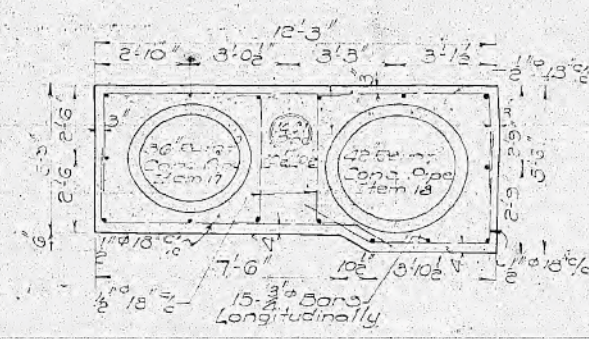
PLAN

SECTION D-D

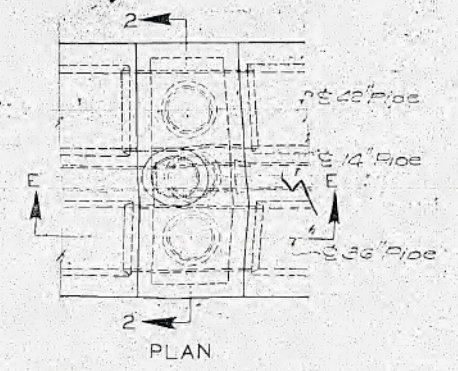
SECTION C-C

SECTION I-I

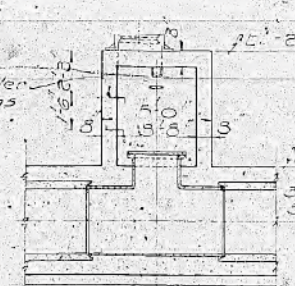
CONNECTIONS TO EXISTING SEWER
Scale 1/8" = 1'-0"



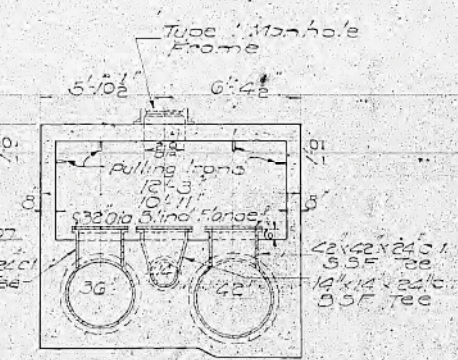
TYPICAL CROSS SECTION OF SIPHON
Scale 3/8" = 1'-0"



PLAN



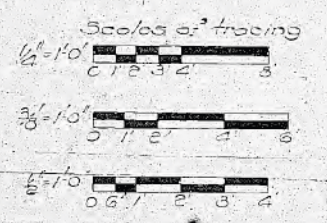
SECTION E-E



SECTION 2-2

CLEANOUT MANHOLE
Scale 1/4" = 1'-0"

Note:
All siphon encasement and sewer concrete to be class X, Item 3. All encasement reinforcing steel to be under Item 4. For further details and complete reinforcement details see Sheet 27.



CITY OF CHICAGO
DEPARTMENT OF SUBWAYS AND SUPERHIGHWAYS
WEST ROUTE SUBWAY
SECTION 2525.1-B
PEORIA STREET BRIDGE

SEWER DETAILS

SCALE: AS NOTED

SHEET NO. 23 OF 30 SHEETS

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PLOT SCALE = 100.0000' / 1"
PLOT DATE = 5/11/2017

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DATE - 5/10/17

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING DRAINAGE PLAN AND DETAIL

SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	307
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

WATER MAIN GENERAL NOTES:

- LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.
- THE CONTRACTOR MUST VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITH THE UTILITY OWNERS PRIOR TO DOING ANY WORK IN THE VICINITY. THE CONTRACTOR MUST COMPLY WITH REQUIREMENTS OF UTILITY OWNERS REGARDING NOTICE OF WORK AND PROTECTION OF UTILITIES. THE CONTRACTOR MUST COMPLY WITH THE CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION DAMAGE PREVENTION PROTOCOL CITY INFRASTRUCTURE DEPARTMENTS. ALL UTILITIES MUST BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION. (CALL DIGGER 312-744-7000)
- IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH AND MUST REMAIN IN PLACE, THE CONTRACTOR MUST PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIFICATIONS OR AS DIRECTED BY THE CHICAGO DEPARTMENT OF WATER MANAGEMENT BUREAU OF ENGINEERING SERVICES.
- TEST PITS MUST BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION.
- WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM IS CONSIDERED INCIDENTAL TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE ENGINEER DUE TO FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.
- THE OPERATION OF ALL VALVES REQUIRED FOR SHUTDOWN MUST BE PERFORMED BY CDWM FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT. ANY VALVE FOUND NOT OPERABLE WILL BE REPAIRED OR REPLACED BY CDWM.
- REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING ANY EXCAVATION INCLUDING LEAKAGE FROM EXISTING WATER MAINS. ALL EXCAVATIONS ASSOCIATED WITH THE WATER MAIN WORK MUST BE KEPT DRY.
- ALL OPENINGS IN EXISTING WATER MAINS MUST BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED.
- ALL VALVE BASINS MUST BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- NOTES INDICATING S.N.L., E.W.L., ETC. MEAN SOUTH OF THE NORTH PROPERTY LINE, EAST OF THE WEST PROPERTY LINE, ETC. AND ARE MEASURED FROM THE NEAREST STREET.
- IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.
- THE CONTRACTOR SHALL CONSULT AND FOLLOW RESTRAINED JOINT PIPE MANUFACTURER'S GUIDELINES AS TO EXTENSION OF THE JOINT AFTER ASSEMBLY IN ORDER TO LIMIT THE JOINT TAKE-UP UNDER PRESSURE TEST OR SERVICE CONDITIONS.
- USE FILLER PIECES OF PIPE TO FILL THE AREA BETWEEN PIPE ENDS WHEN INSTALLING SLEEVE FITTINGS.
- ON CONNECTIONS TO EXISTING CAST IRON PIPES, USE CAUTION WHEN INSTALLING MJ SLEEVES. SET SCREW TYPE RESTRAINT GLANDS (E.G. RETAINER GLANDS) ARE NOT ACCEPTABLE. CONSULT THE SPECIFICATIONS FOR JOINT RESTRAINT REQUIREMENTS.
- ABANDON EXISTING WATER MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.
- SWAB ALL PIPE AND FITTINGS WITH CHLORINE SOLUTION DURING INSTALLATION AND USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE CDWM BUREAU OF WATER QUALITY. (312) 744-8190
- DE-CHLORINATION OF HEAVILY CHLORINATED WATER IS REQUIRED. THE CONTRACTOR OR SUBCONTRACTED CHLORINATOR SHALL DE-CHLORINATE AS LISTED FOR "INFORMATIONAL PURPOSES ONLY" IN APPENDIX C OF THE ANSI/AWWA STANDARD C-651-05, JUNE 1, 2005. THE CHLORINE LEVEL MUST BE BROUGHT TO POTABLE WATER LEVELS.
- ELEVATIONS ARE SHOWN IN THE CITY OF CHICAGO DATUM AND NAVD 88. THE CONVERSION FACTOR FROM CCD TO NAVD88 IS: NAVD 88 ELEVATION = CCD + 579.19.
- CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS ONLY WITHIN THE RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO PRIVATE PROPERTY AND SHALL REPAIR SAID DAMAGE AT OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- ALL CASING PIPES MUST BE SMOOTH WELDED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A139, GRADE B. THE EXTERIOR OF THE CASING PIPE MUST HAVE COAL-TAR ENAMEL IN ACCORDANCE WITH AWWA C203 AND HAVE A THICKNESS OF 0.469 INCHES AND AN OUTSIDE DIAMETER OF 30 INCHES. SPLIT CASING PIPE MUST HAVE SIDE FLANGES FOR BOLTED CONNECTION OF THE TWO HALVES AND COMPLY WITH THE REQUIREMENTS OF THIS SPECIFICATION. INSTALLATION MUST BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ACCEPTABLE PRODUCTS ARE FLANGED MAINTENANCE PIPE- "FMP" AS MANUFACTURED BY IRONHED, LLC, COLUMBUS, OH OR APPROVED EQUAL.
- SPACERS FOR CARRIER PIPES MUST BE EITHER THE TWO-PIECE METAL BAND TYPE WITH 2-INCH WIDE NON-METALLIC RUNNERS OR UNITS MANUFACTURED ENTIRELY OUT OF HIGH-DENSITY POLYETHYLENE. ON TWO-PIECE METAL BAND TYPE SPACERS, BANDS AND FASTENERS MUST BE OF CORROSION RESISTANT MATERIAL. ALL SPACERS MUST BE RATED FOR HEAVY DUTY SERVICE, MANUFACTURED BY (PSI) PIPELINE SEAL AND INSULATOR, INCORPORATED; CASCADE WATERWORKS MANUFACTURING COMPANY OR RACI SPACERS NORTH AMERICA.
- PRIOR TO INSERTION IN THE CASING, EACH LENGTH OF PIPE MUST BE SUPPORTED ON CASING SPACERS IN SUCH A MANNER THAT AT NO TIME WILL THE WEIGHT OF THE PIPE BEAR ON THE BELL OR ANY PART OF THE PIPE TOUCH THE CASING.
- ALL PIPES MUST BE JOINTED PRIOR TO BEING PUSHED OR PULLED THROUGH THE CASING PIPE. AFTER PLACEMENT OF THE CARRIER PIPE THROUGH THE CASING, THE ENDS OF THE CASING ARE TO BE SEALED WITH BRICK AND MORTAR OR RUBBER END SEAL OR OTHER APPROVED METHOD AND MUST BE COMPLETELY LEAK-TIGHT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

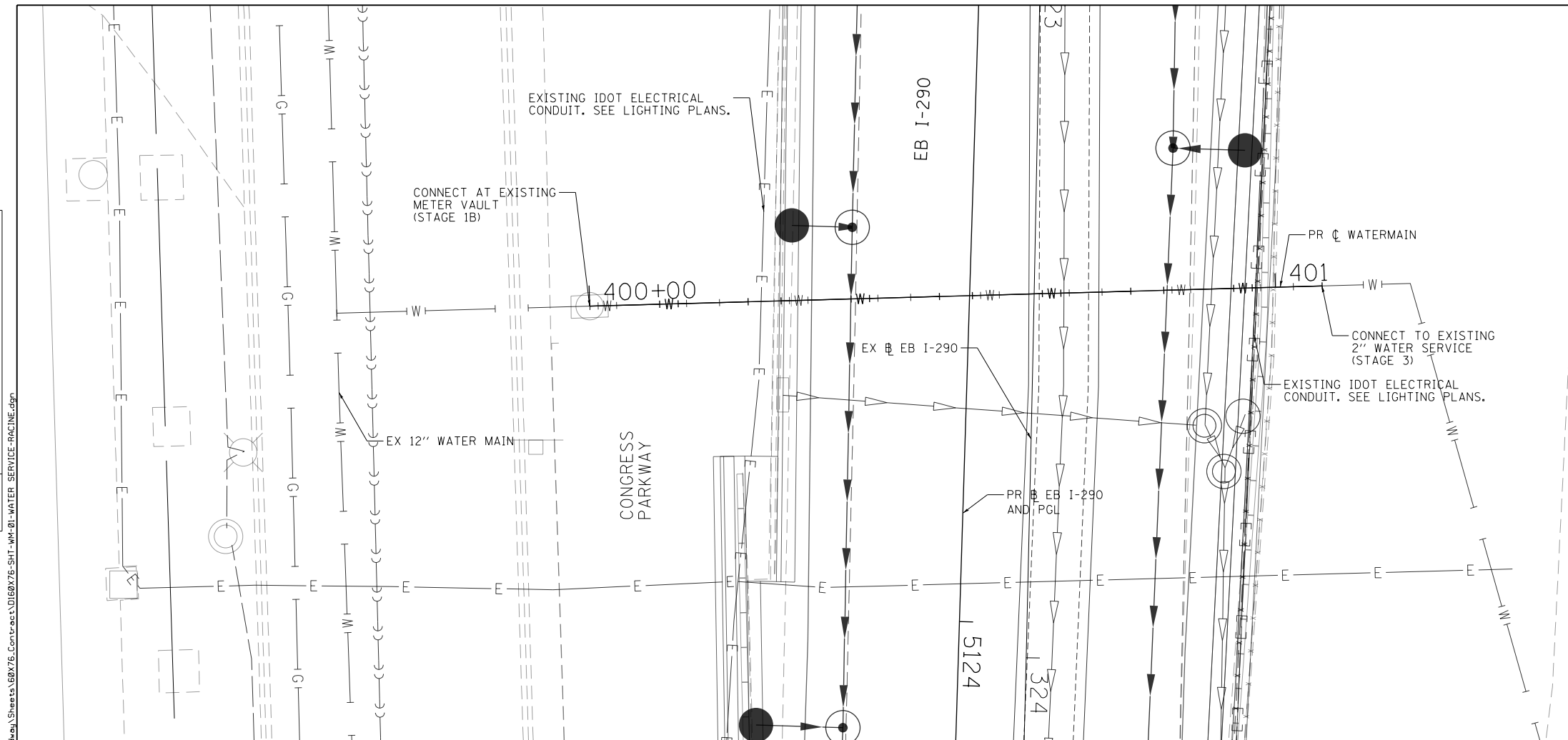
**WATER MAIN
GENERAL NOTES**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	308
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

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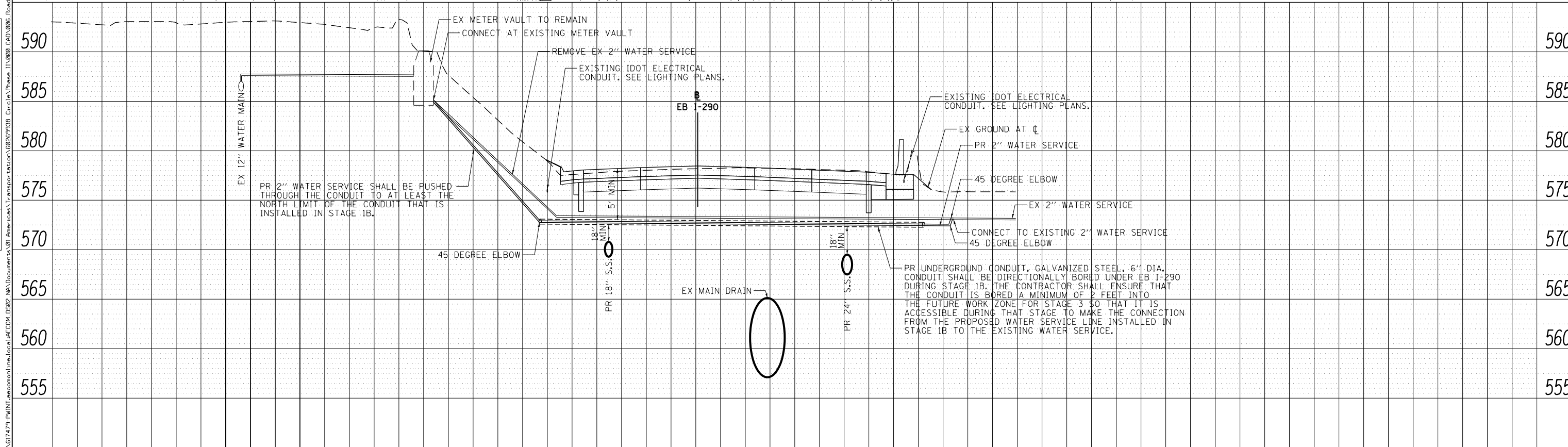
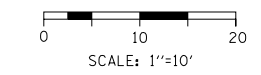
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BILL OF MATERIALS

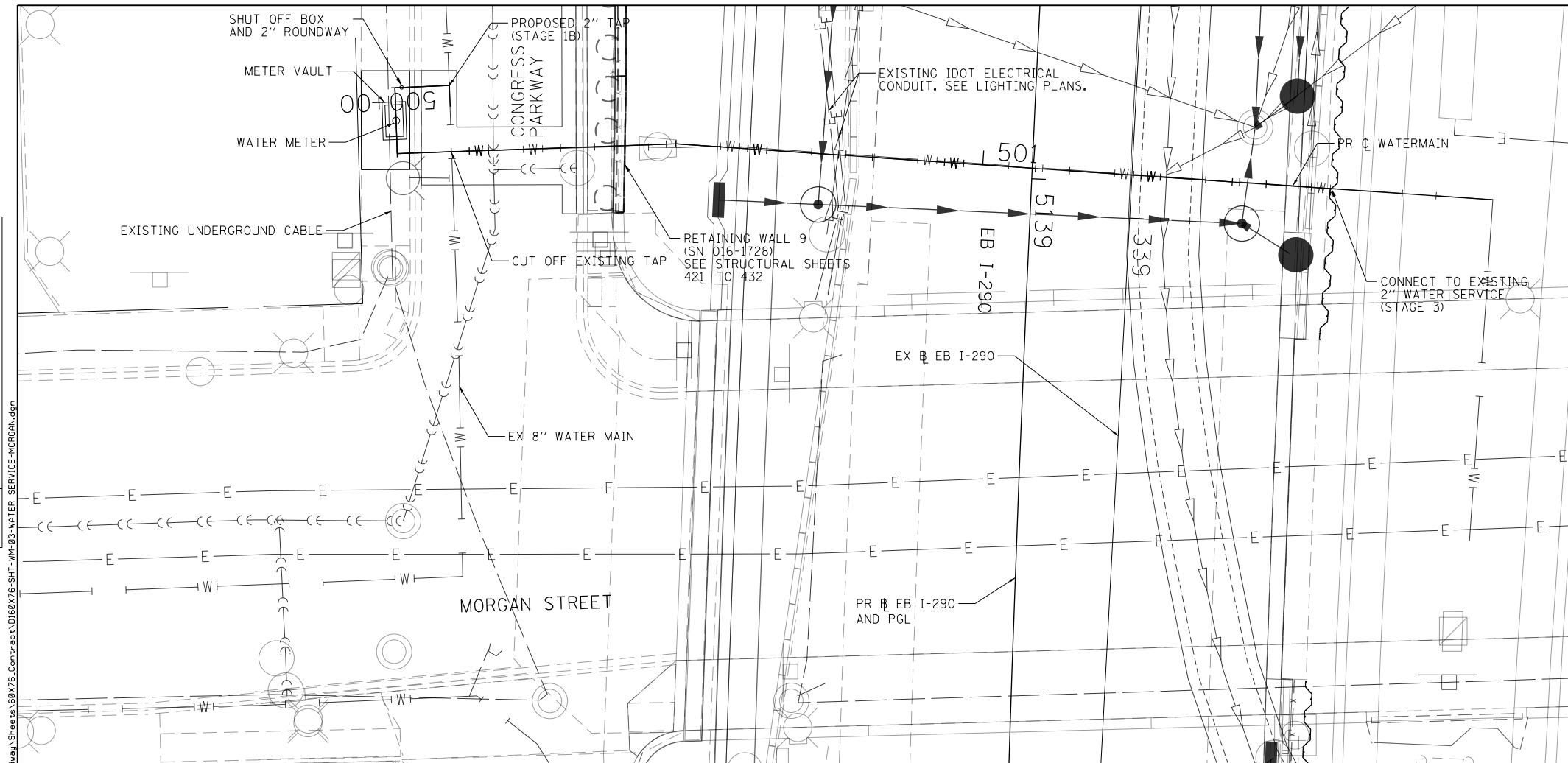
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2" WATER SERVICE	FOOT	108
UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIAMETER	FOOT	80
SERVICE PIPE INSULATION BOARD	50 FT	100
REMOVE 2" WATER SERVICE	FOOT	120

NOTE: ALL ITEMS INCLUDED IN THE COST OF WATER SERVICE LINE 2"



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO.	

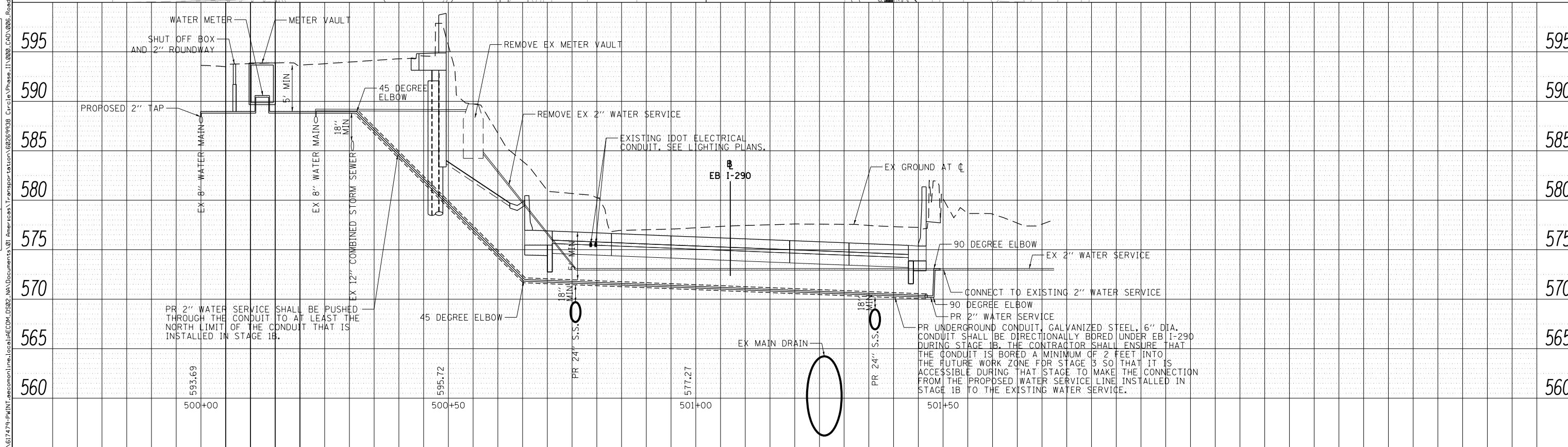
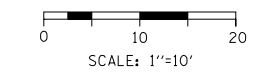
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	PLOTTED	
	CHECKED	
	BY	
	NO.	



BILL OF MATERIALS

ITEM	UNIT	TOTAL
2" WATER SERVICE STANDARD METER VAULT	EACH	1
2" WATER SERVICE	FOOT	165
UNDERGROUND CONDUIT, GALVANIZED STEEL, 6" DIAMETER	FOOT	130
SERVICE PIPE INSULATION BOARD	SQ. FT	100
REMOVE 2" WATER SERVICE	FOOT	125
REMOVE EXISTING METER VAULT	EACH	1

NOTE: ALL ITEMS INCLUDED IN THE COST OF RELOCATE WATER SERVICE LINE, 2"



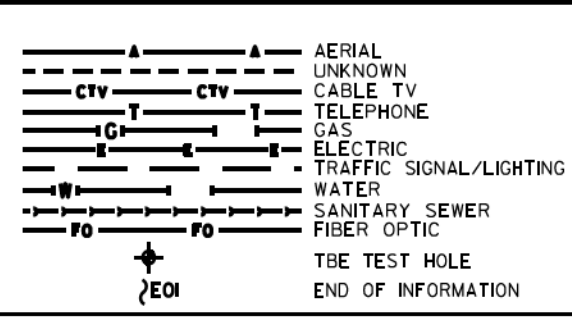
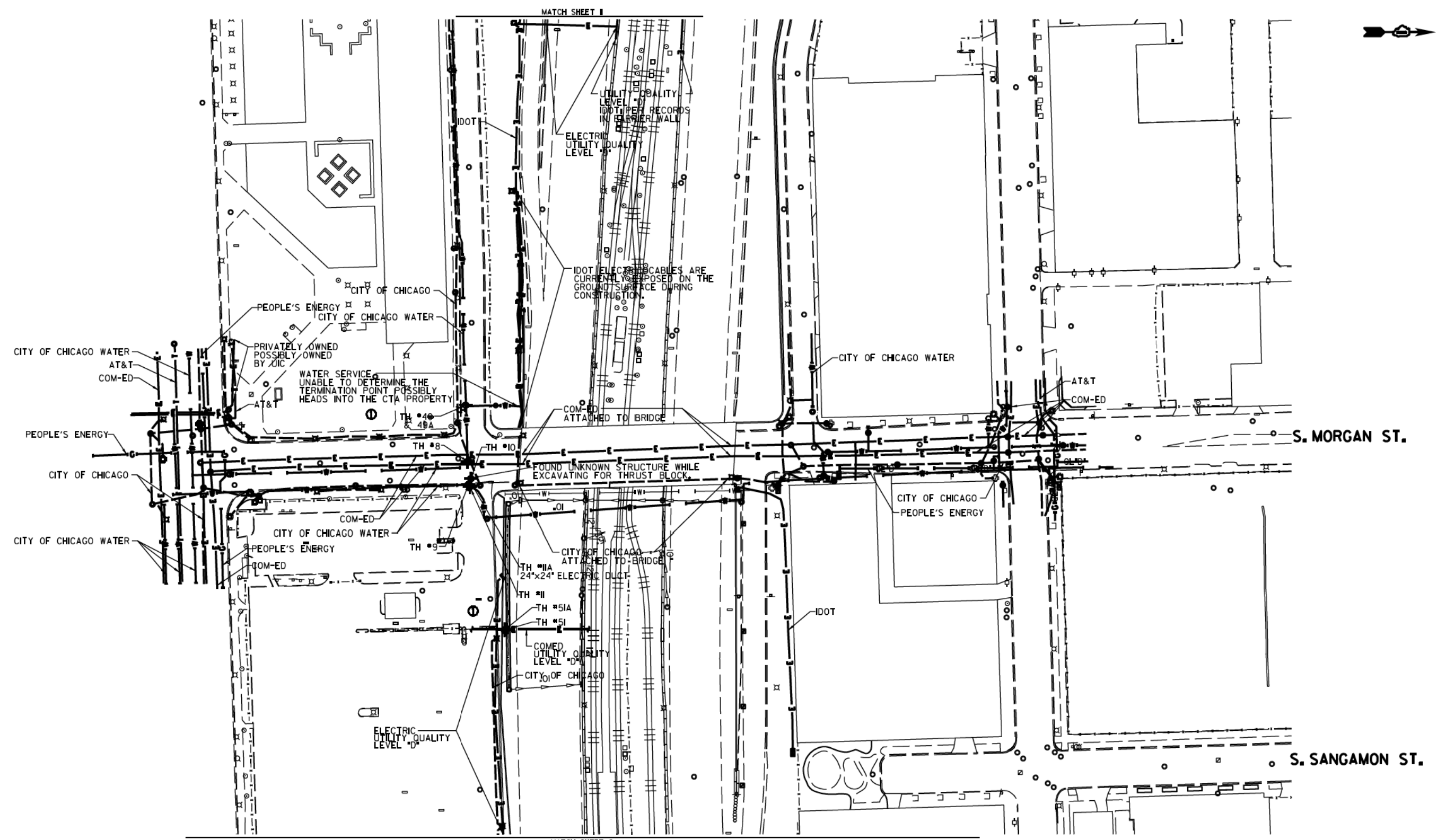
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USER NAME = v1janachione	DRAWN - MRC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MKW	REVISED -
PLOT DATE = 5/11/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WATER SERVICE RELOCATION
PLAN AND PROFILE**

SCALE: 1"=10' SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	310
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

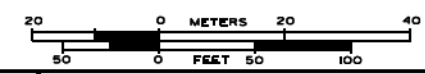


UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO WATER	= WATER
IDOT	= ELECTRIC
PEOPLE'S ENERGY	= GAS

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.



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

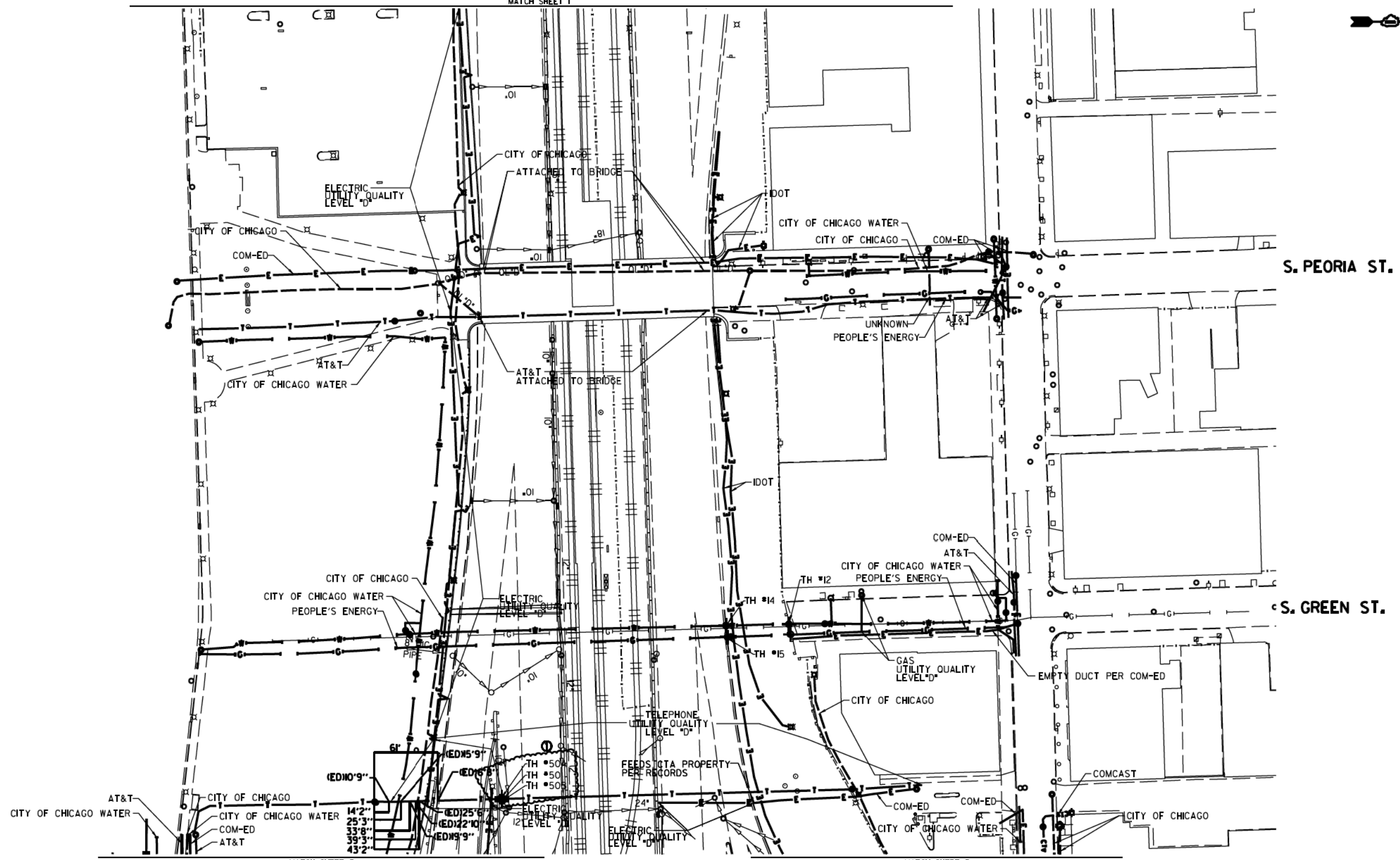
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Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

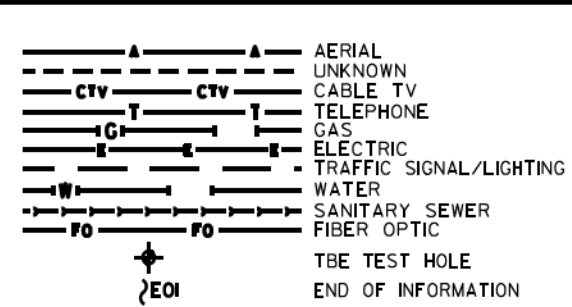
I-94-I-901-290 (Circle Interchange)
Chicago, Illinois
SHEET 1 OF 11 SHEETS

F.A. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	311
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12				



MATCH SHEET 3

MATCH SHEET 3



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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 LAND SURVEYORS
 8300 SOUTH DRINKER UNIT 1, JOLIET, ILLINOIS 60431
 (815) 744-3720 claassenwhite.com

Dynasty Group
 Engineers & Surveyors

TBE Job No. L0950531 563, 647, 737
 SUE Plan Pages 2 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

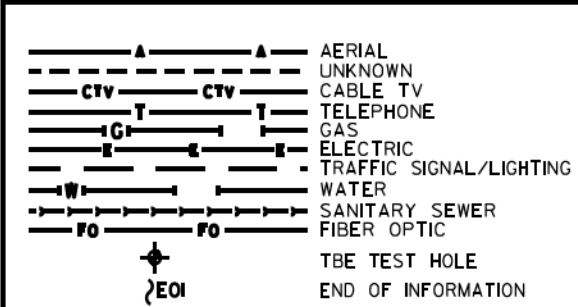
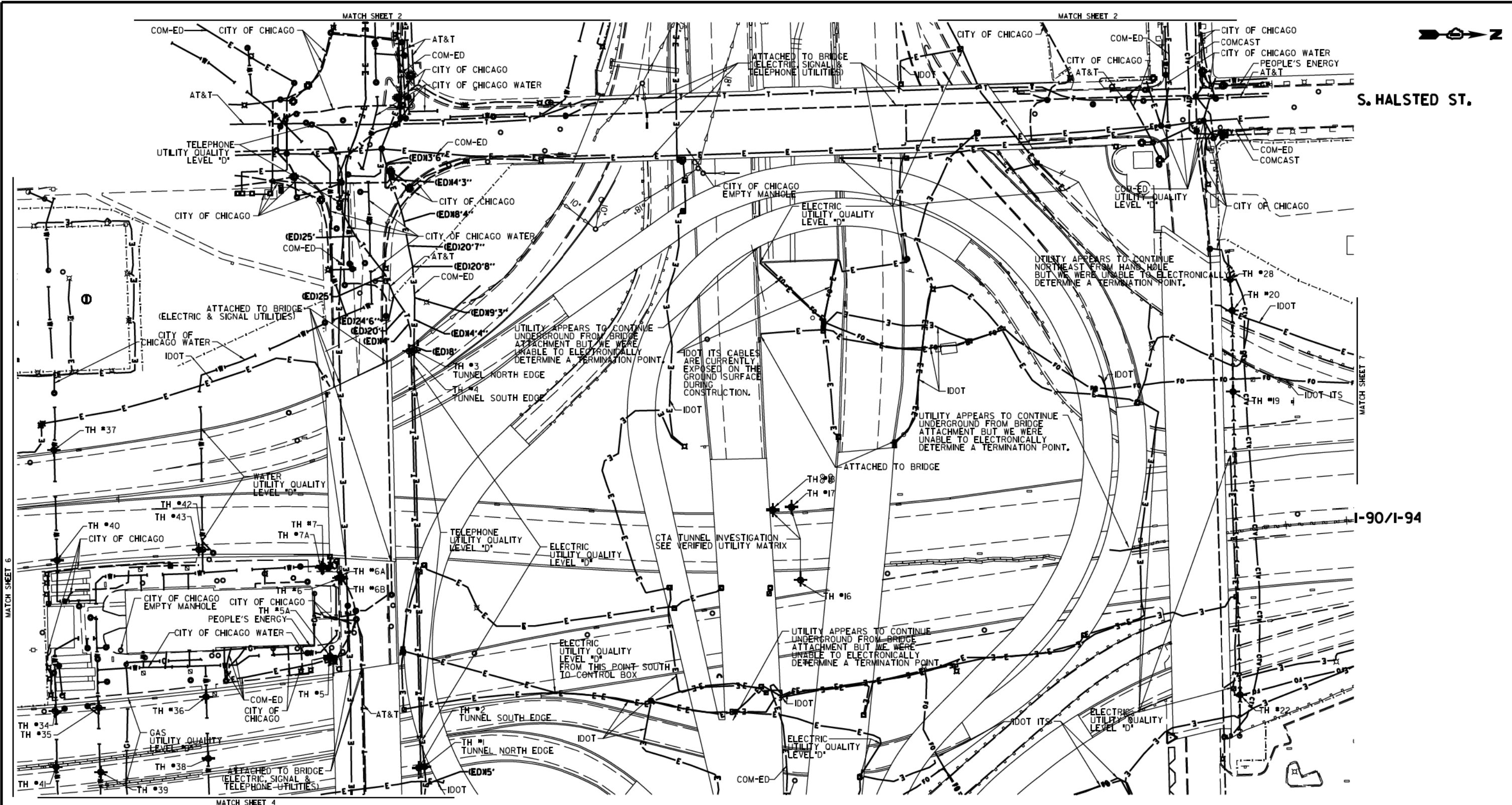
DESIGNED JP	REVISED 12/20/16
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET 2 OF 11 SHEETS

F.A. R.T.C.	SECTION N/A	COUNTY Cook	TOTAL SHEETS 814	SHEET NO. 312
FED. ROAD DIST. NO. ILLINOIS DOT Project No. P-9-259-12			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
 PEOPLE'S ENERGY = GAS

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Cardno TBE

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Dynasty Group
 Engineers & Surveyors

TBE Job No. IL0990531 563, 647, 737
 SUE Plan Page 3 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

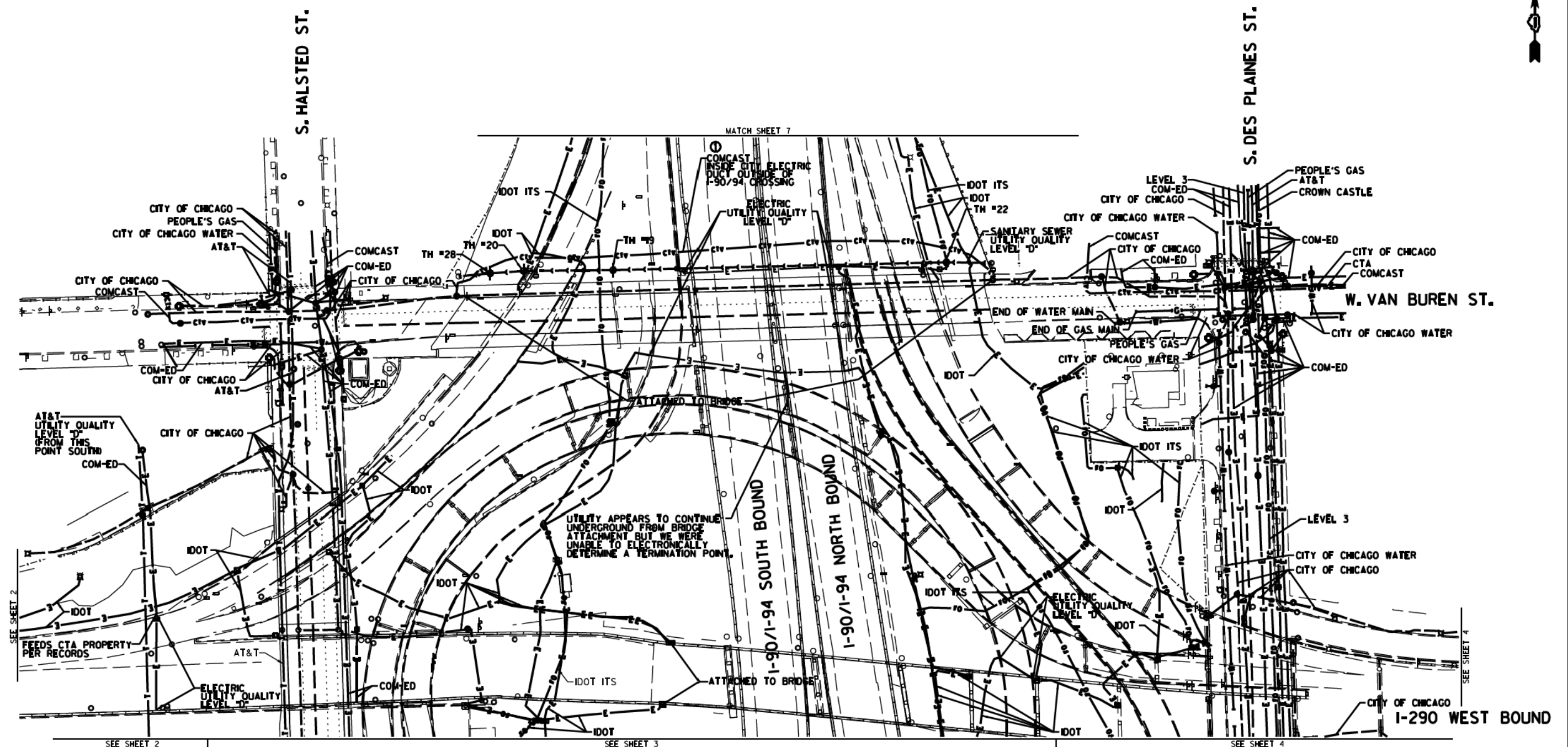
DESIGNED JP	REVISED 02/01/17 ADDED UTILITIES
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET 3 OF 11 SHEETS

F.A. R.T.C.	SECTION N/A	COUNTY Cook	TOTAL SHEETS 814	SHEET NO. 313
FED. ROAD DIST. NO.		ILLINOIS	IDOT Project No. P-9-259-2	



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.

	AERIAL
	UNKNOWN
	CABLE TV
	TELEPHONE
	GAS
	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
	WATER
	SANITARY SEWER
	FIBER OPTIC
	TBE TEST HOLE
	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

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Dynasty Group
 Engineers & Surveyors

TBE Job No. IL0950531 563, 647, 737
 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

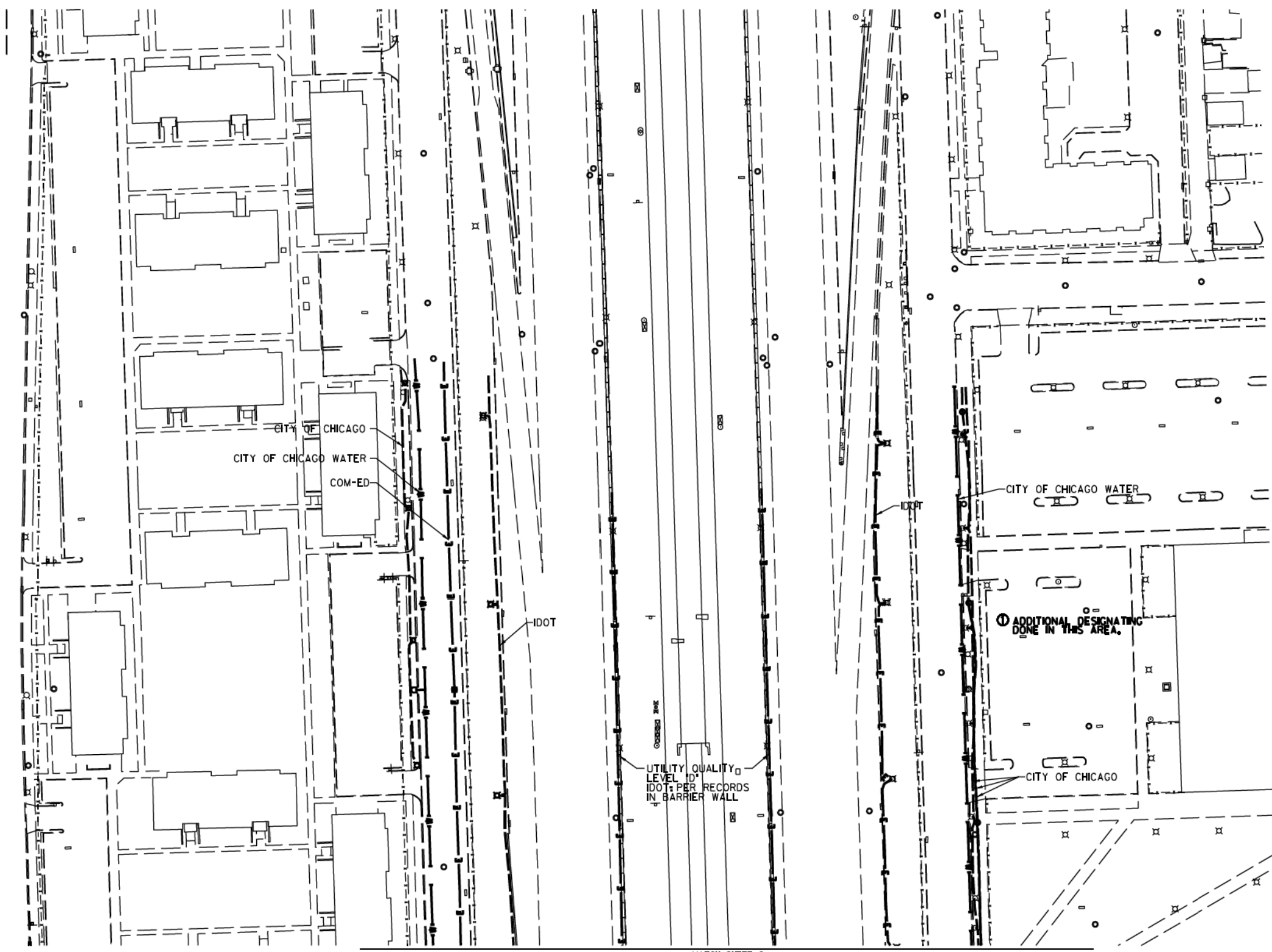
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DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

SHEET 4 OF 11 SHEETS

F.A. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	314
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-2				



S. LAFLIN ST.

MATCH SHEET 9

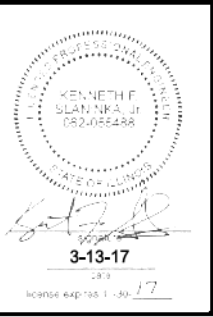
	AERIAL
	UNKNOWN
	CABLE TV
	TELEPHONE
	GAS
	ELECTRIC
	TRAFFIC SIGNAL/LIGHTING
	WATER
	SANITARY SEWER
	FIBER OPTIC
	TBE TEST HOLE
	END OF INFORMATION

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

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(815) 744-3720 clausse@cwatbe.com

Engineers & Surveyors

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

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

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

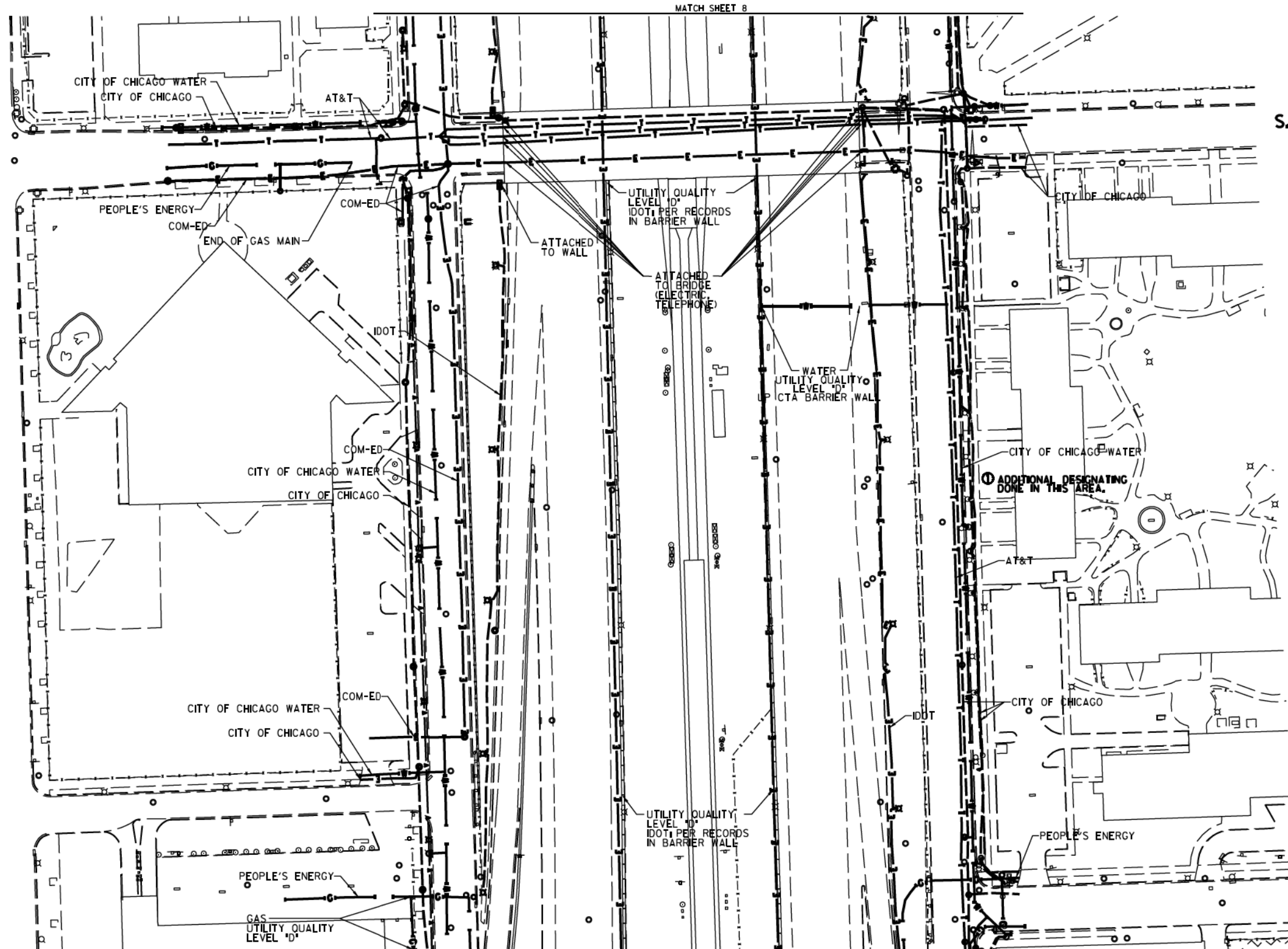
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET 5 OF 11 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	315

Contract No. N/A	
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9-259-12	



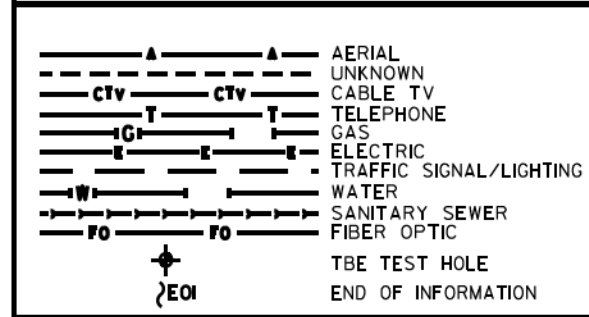
S. LOOMIS ST.

S THROOP ST.



MATCH SHEET 8

MATCH SHEET 10



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

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Utility Quality Level "A": Visually Verified Test Hole	DESIGNED JP	REVISED ① 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

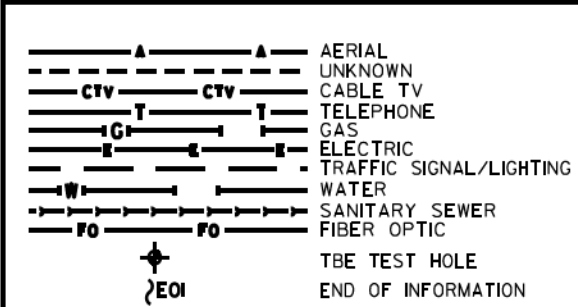
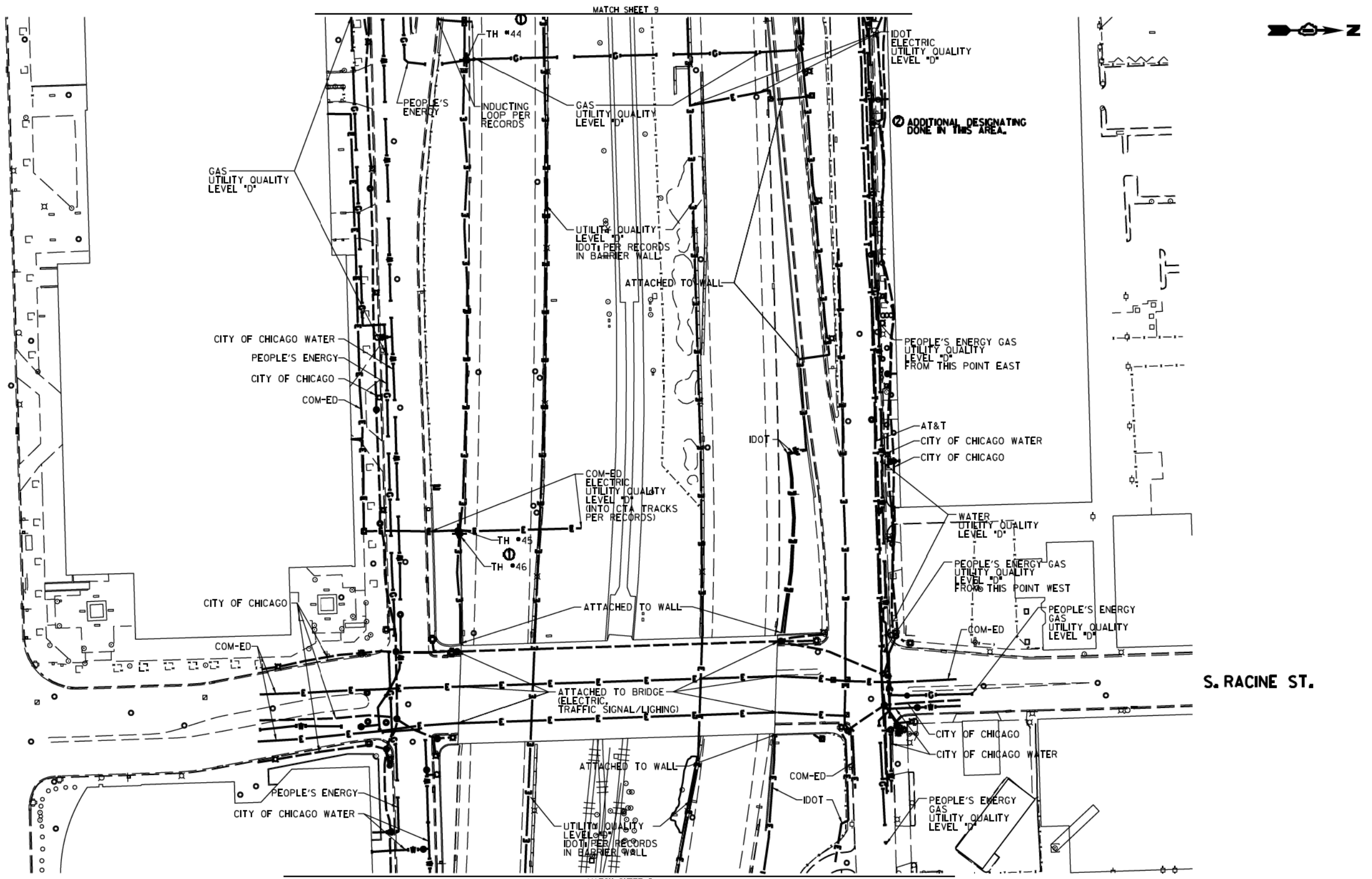
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DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 12/18/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	316
Contract No. N/A				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No. P-9-259-12				





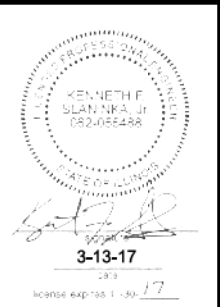
UTILITY OWNERS	
AT&T	= TELEPHONE
COM-ED	= ELECTRIC
CITY OF CHICAGO	= ELECTRIC
CITY OF CHICAGO	= WATER
IDOT	= ELECTRIC
PEOPLE'S ENERGY	= GAS

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(773) 744-3720 clausenwhite@cwasurevey.com

Dynasty Group
Engineers & Surveyors

TBE Job No. L0990531 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

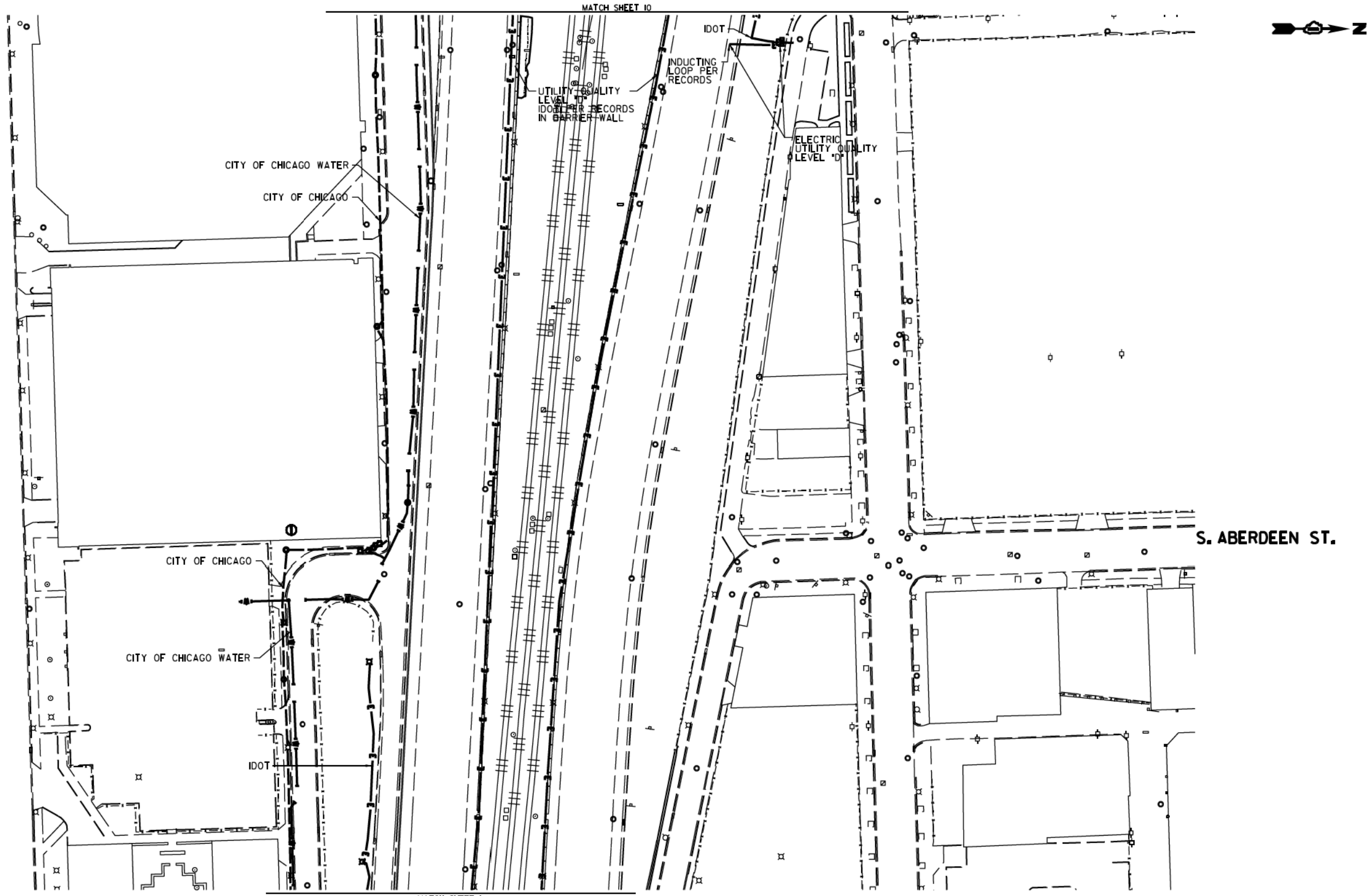
SECTION	N/A
COUNTY	Cook
TOTAL SHEETS	814
SHEET NO.	317
CONTRACT NO.	N/A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET 7 OF 11 SHEETS

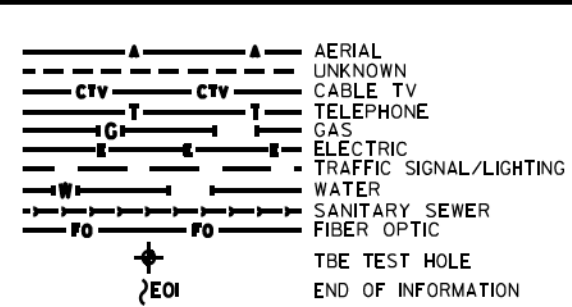
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	317
Contract No. N/A				
FED. ROAD DIST. NO., ILLINOIS DOT Project No. P-9R-259-R				



MATCH SHEET 10

MATCH SHEET 1

S. ABERDEEN ST.

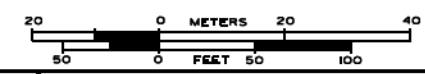


UTILITY OWNERS
 CITY OF CHICAGO = ELECTRIC
 CITY OF CHICAGO WATER = WATER
 IDOT = ELECTRIC

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 (815) 744-3720 clausse@cwawhite.com



TBE Job No. IL0950531 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 8 OF 11 SHEETS

F.A. RTIC	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	318
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.



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

Checked By: *[Signature]*
 Date: 3/15/17

TBE Job No. IL0950531, 563, 647, 737
 SHEET 10F 3

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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1-941-901-290 (Circle Interchange)
 Chicago, Illinois

SHEET NO. 9 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	319
FED. ROAD DIST. NO. ILLINOIS			Contract No. N/A	
			Job No. P-91-259-12	

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	1171576.646	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.



Checked By: *[Signature]* TBE Job No. IL09910531.563.647.737
 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. 10 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	320
FED. ROAD DIST. NO. ILLINOIS			Contract No. N/A	
			Job No. P-91-259-12	

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	

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.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
 LAND SURVEYORS
 121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
 (815) 744-3120 clausenwhitecsurvey.com

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

Checked By: *[Signature]*
 Date: 12/20/16
 TBE Job No. IL09510531, 563, 647, 737
 SHEET 3 OF 3

DESIGNED EJ	REVISED 3/07/17 ADDED TH#52-54
DRAWN KLC	REVISED 3/13/17 ADDED TH#54A
CHECKED KS	REVISED
DATE 12/20/16	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 11 OF 11 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	814	321
FED. ROAD DIST. NO. ILLINOIS			Contract No. N/A	
			Job No. P-91-259-12	

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4"	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"	RAISED REFLECTIVE PAVEMENT MARKER	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	REPLACEMENT REFLECTOR	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - GRINDING	PAVEMENT MARKING REMOVAL - WATER BLASTING	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL
	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	SQ FT	SQ FT	EACH
295+76 TO 5102+00	-	-	1,238	464	-	-	47	-	-	47	-	397	-
5102+00 TO 5114+00	-	-	1,559	900	1,387	116	115	-	-	108	-	2,136	-
5114+00 TO 5126+00	-	109	2,108	876	483	45	105	-	-	95	665	467	-
5126+00 TO 5138+00	-	328	1,200	600	1,800	43	128	-	-	90	1,175	-	-
5138+00 TO 5150+00	1,780	219	1,203	600	2,967	342	110	37	-	139	3,844	-	-
5150+00 TO 5155+12	-	-	1,851	181	420	452	17	14	-	44	3,608	-	-
1507+50 TO 1514+00	-	-	1,571	269	447	69	-	9	11	9	259	697	11
1514+00 TO 7321+00	-	-	1,704	429	970	23	-	-	52	-	-	1,300	52
TOTAL	1,780	656	12,433	4,319	8,474	1,090	522	60	63	532	9,552	4,997	63

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

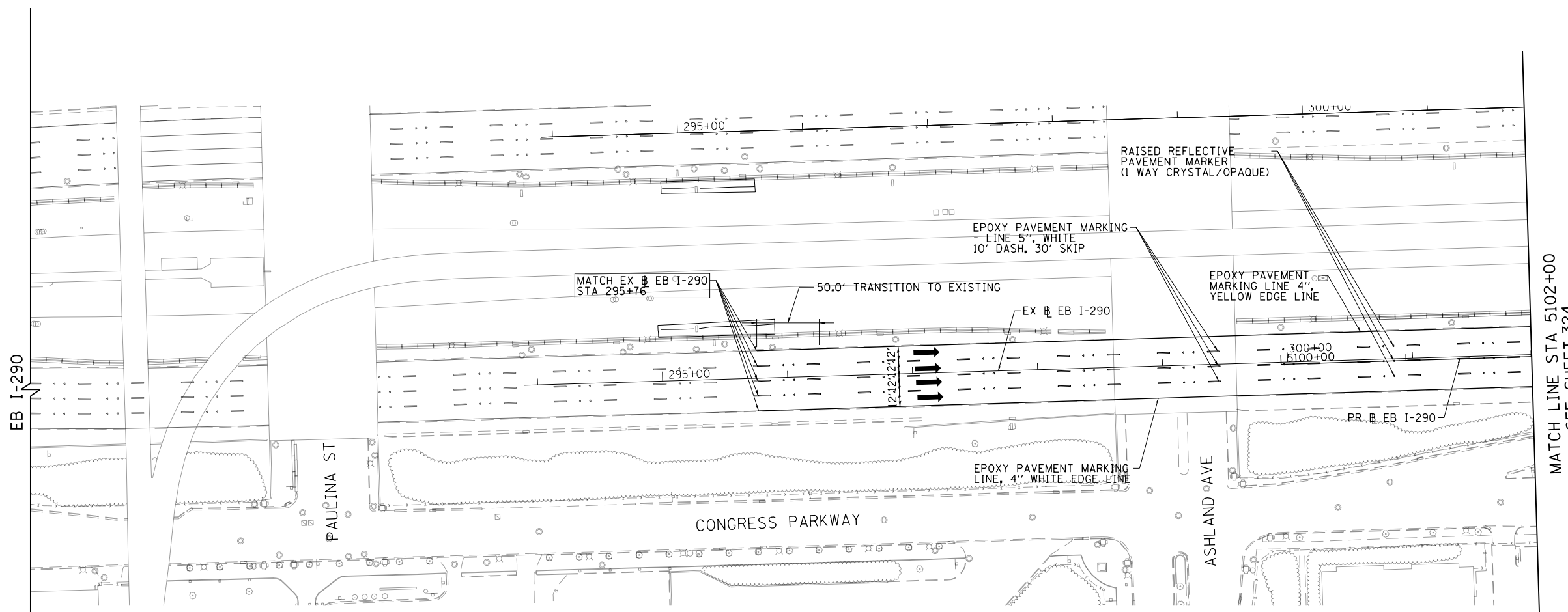
PAVEMENT MARKING SCHEDULE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	322
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X76	



0 50 100
SCALE: 1"=50'



PAVEMENT MARKING NOTES

1. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
3. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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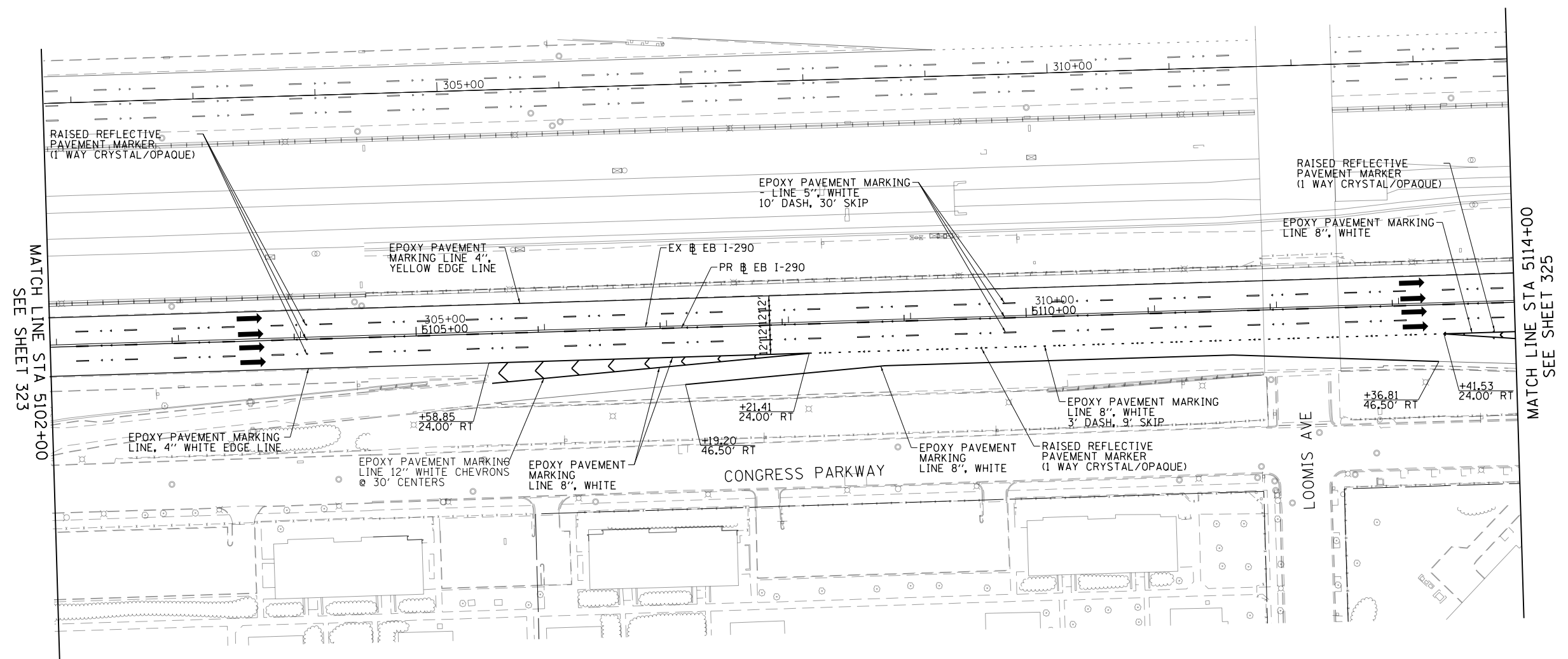
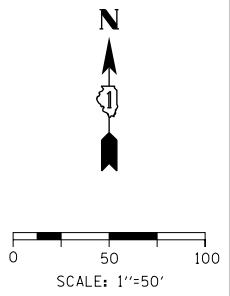
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 1 OF 8 SHEETS STA. TO STA. 5102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	323
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING NOTES

1. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
3. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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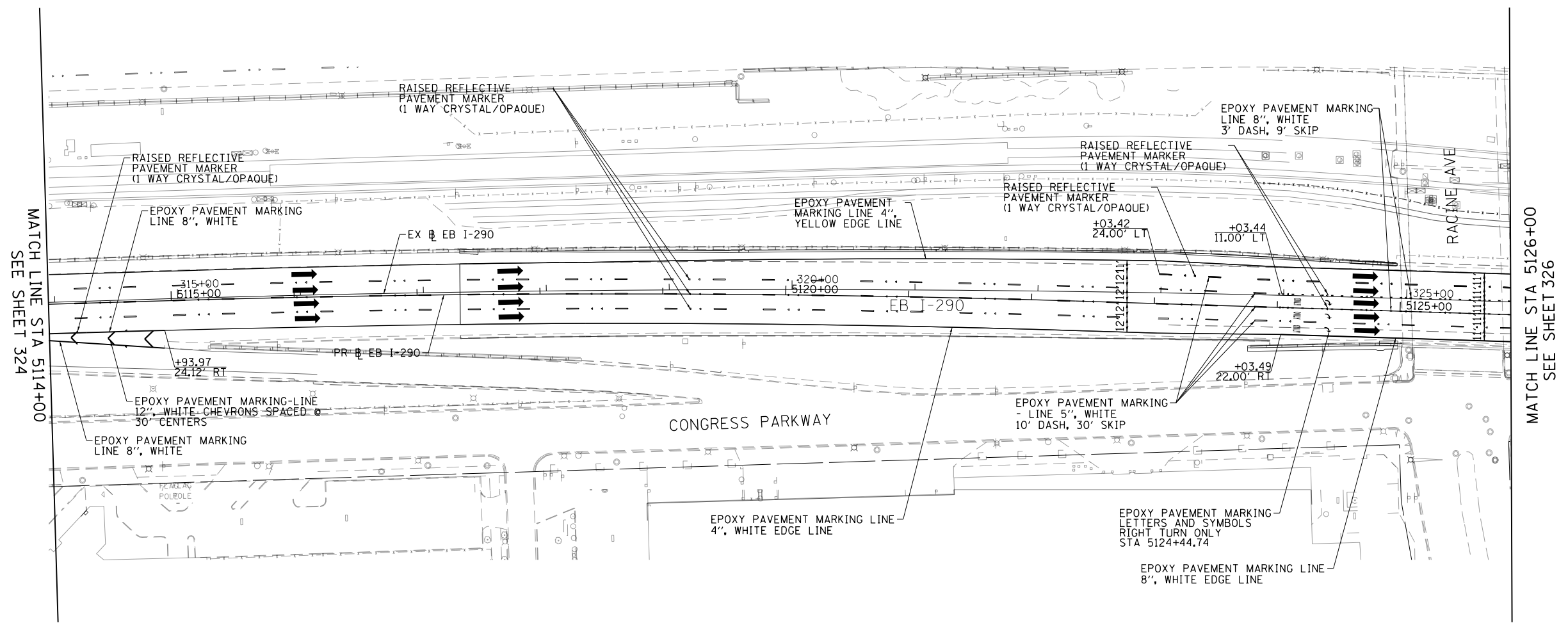
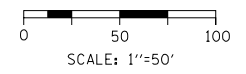
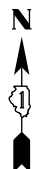
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 2 OF 8 SHEETS STA. 5102+00 TO STA. 5114+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	324
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 5114+00
SEE SHEET 324

MATCH LINE STA 5126+00
SEE SHEET 326

PAVEMENT MARKING NOTES

1. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
3. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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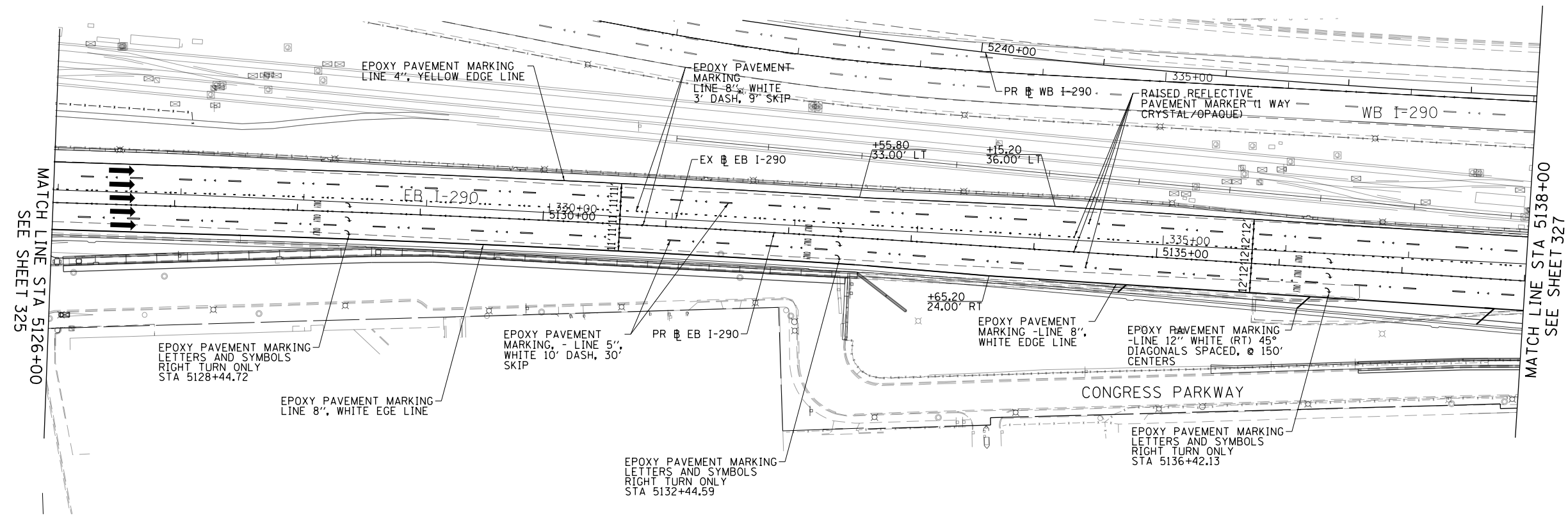
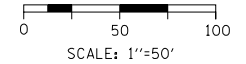
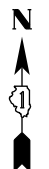
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 3 OF 8 SHEETS STA. 5114+00 TO STA. 5126+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	325
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING NOTES

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3. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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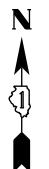
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

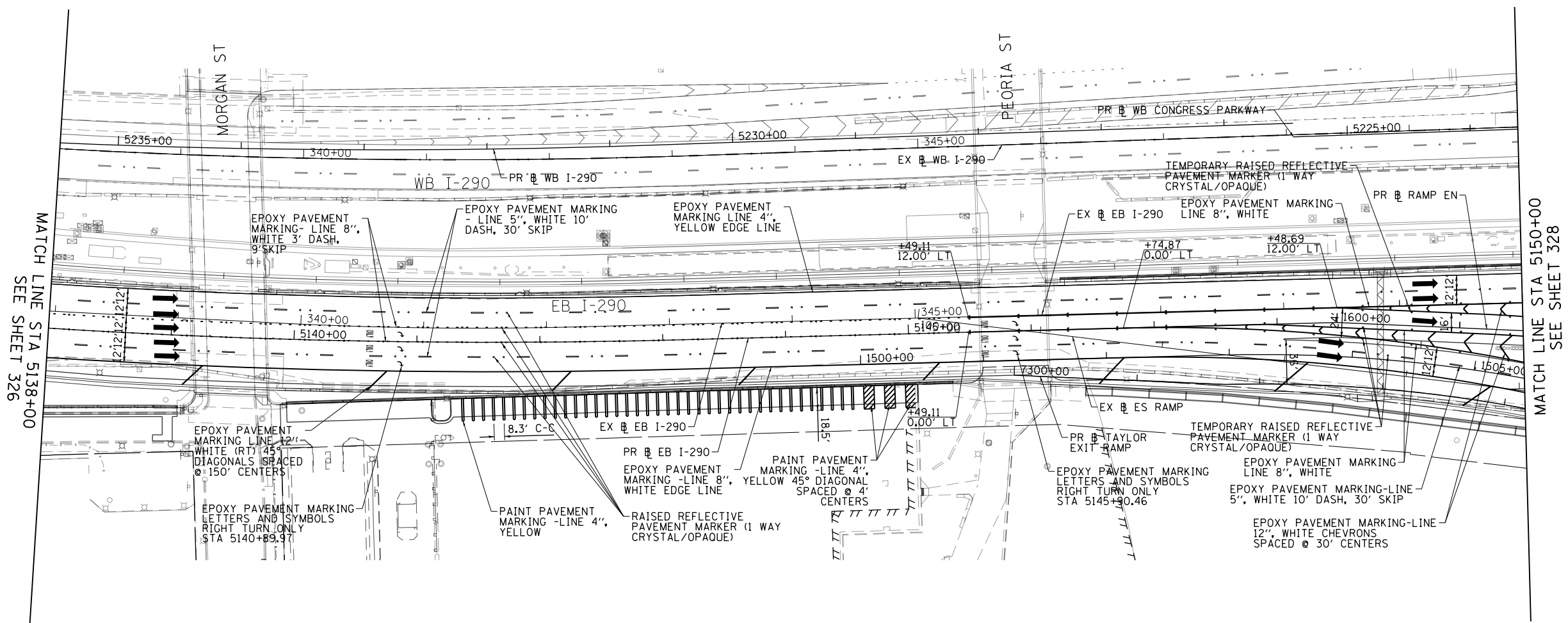
EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 4 OF 8 SHEETS STA. 5126+00 TO STA. 5138+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	326
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



0 50 100
SCALE: 1"=50'



PAVEMENT MARKING NOTES

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4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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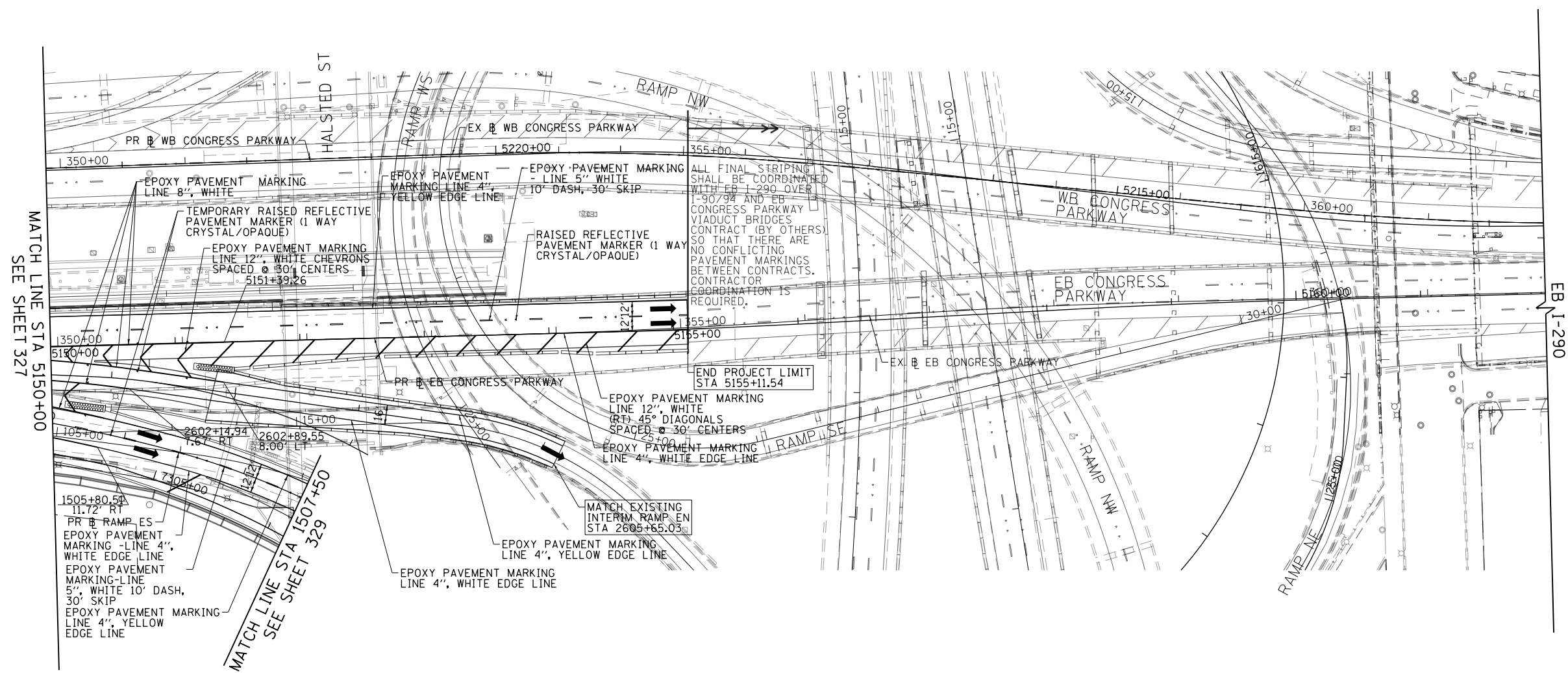
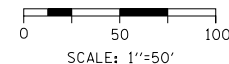
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 5 OF 8 SHEETS STA. 5138+00 TO STA. 5150+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	327
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



- PAVEMENT MARKING NOTES**
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 4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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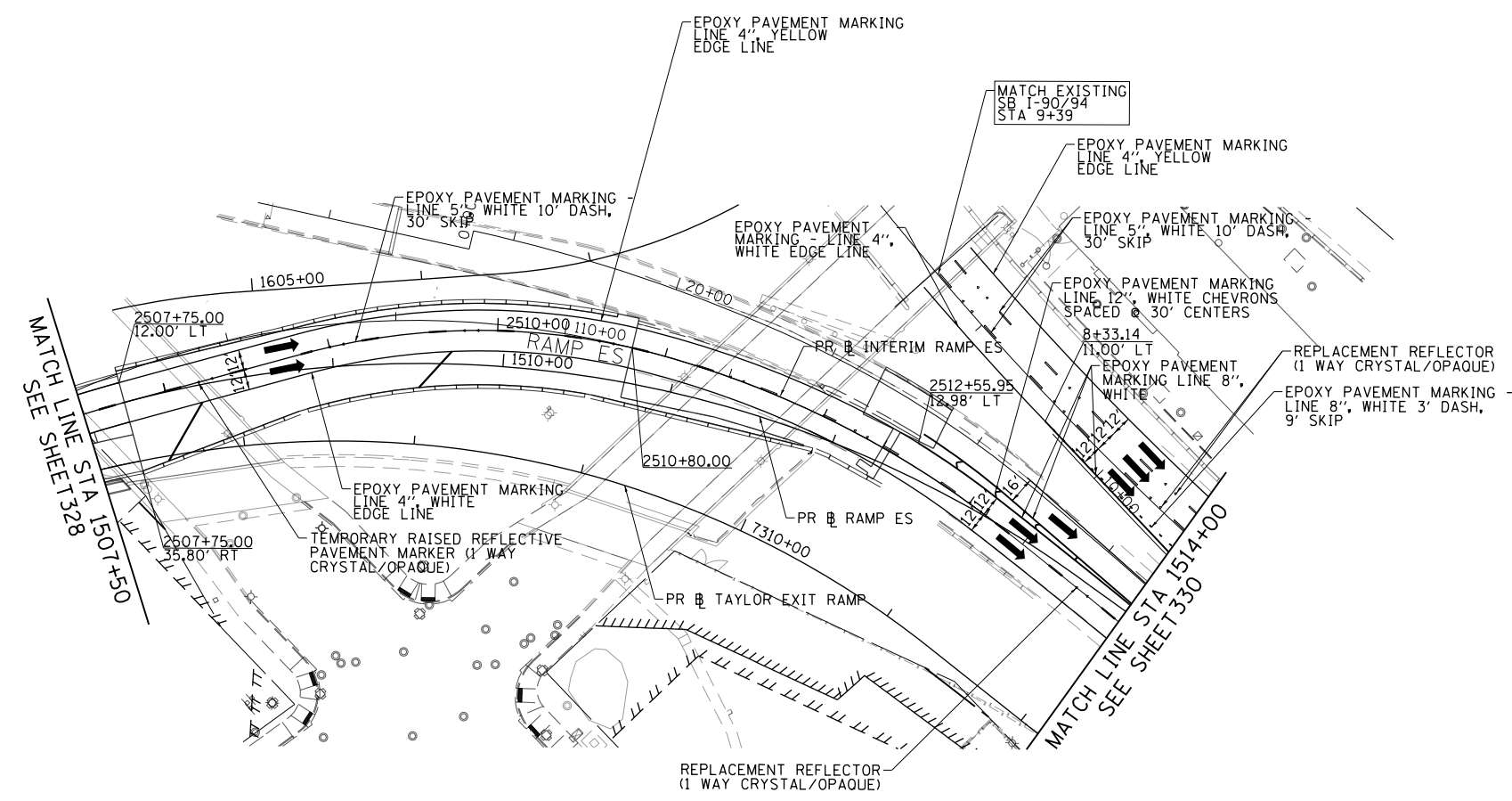
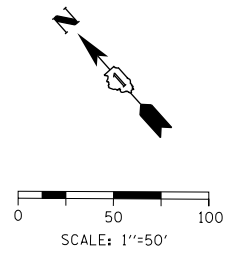
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 6 OF 8 SHEETS STA. 5150+00 TO STA. 5162+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	328
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



PAVEMENT MARKING NOTES

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4. PARTIAL STATIONS PROVIDED REFER TO PR EB I-290 OR EB CONGRESS PARKWAY

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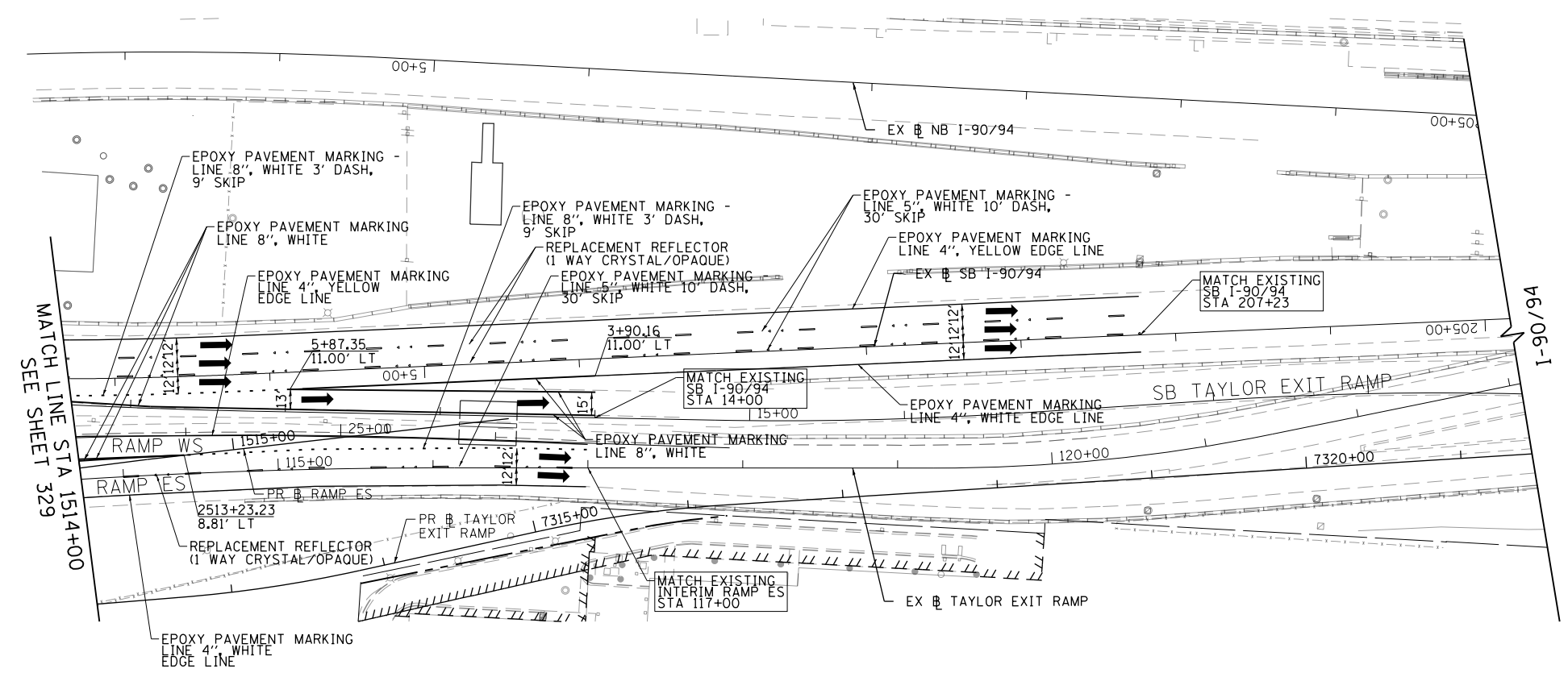
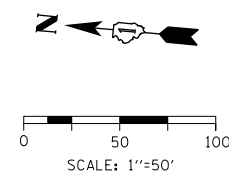
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN

SCALE: 1"=50' SHEET 7 OF 8 SHEETS STA. 1507+50 TO STA. 1514+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	329
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING NOTES

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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EASTBOUND I-290 PROPOSED PAVEMENT MARKING PLAN
SCALE: 1"=50' SHEET 8 OF 8 SHEETS STA. 1514+00 TO STA. 117+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	330
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X76	

SIGNING SCHEDULE

LOCATION	SIGN NO.	LEGEND / DESCRIPTION	CODE	ACTION	LOCATION (STATION / OFFSET)				EXISTING PANEL DIMENSIONS		PROPOSED PANEL DIMENSIONS		NUMBER OF POSTS	SIGN PANEL - TYPE 1 (SQ FT)	SIGN PANEL - TYPE 2 (SQ FT)	SIGN PANEL - TYPE 3 (SQ FT)	REMOVE SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL - TYPE 2 (SQ FT)	REMOVE SIGN PANEL - TYPE 3 (SQ FT)	STEEL POSTS, SPECIAL EACH	METAL POST - TYPE B (FOOT)
					EXISTING		PROPOSED		WIDTH	HEIGHT	WIDTH	HEIGHT									
					(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)	(FT)									
CONGRESS PARKWAY (LOCAL)	CPL-01-LP	RAMP 30 MPH	W13-3	EXISTING SIGN TO REMAIN	5114+83.12	71.17' RT	-	-	3.00	4.00	-	-	-								
	CPL-02-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5127+04.53	40.42' RT	5127+04.53	40.42' RT	1.50	1.50	1.50	1.50	1	3			3			1	
	CPL-03-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5127+50.00	38.66' RT	5127+50.00	38.66' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-04-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5128+00.00	35.58' RT	5128+00.00	35.58' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-05-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5128+50.00	32.24' RT	5128+50.00	32.24' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-06-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5128+87.61	31.66' RT	5128+87.61	31.66' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-07-ST	ONE WAY	R6-2	REMOVE AND REPLACE SIGN	5129+22.14	31.14' RT	5129+22.14	31.14' RT	2.00	3.00	2.00	3.00	-	6			6			1	
	CPL-08-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5129+38.88	31.48' RT	5129+38.88	31.48' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-09-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5129+88.86	31.75' RT	5129+88.86	31.75' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-10-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5130+39.09	32.05' RT	5130+39.09	32.05' RT	1.50	1.50	1.50	1.50	-	3			3			1	
	CPL-11-ST	NO LEFT TURN	R3-2	REMOVE AND REPLACE SIGN	5131+00.00	32.02' RT	5131+00.00	32.02' RT	2.00	2.00	2.00	2.00	-	4			4			1	
	CPL-12-ST	WARNING RIGHT ARROW	W1-6	REMOVE SIGN	5132+52.89	37.81' RT	-	-	4.00	2.00	-	-	1				8				
	CPL-13-ST	WARNING RIGHT ARROW	W1-6	PROPOSED SIGN	-	-	5132+53.53	37.62' RT	-	-	4.00	2.00	-	8			-			1	
	CPL-14-ST	WARNING RIGHT ARROW	W1-6	REMOVE SIGN	5132+53.01	45.45' RT	-	-	4.00	2.00	-	-	1				8				
	CPL-15-ST	WARNING RIGHT ARROW	W1-6	PROPOSED SIGN	-	-	5132+53.95	45.43' RT	-	-	4.00	2.00	-	8			-			1	
	CPL-16-FM	ONE WAY	R6-2	EXISTING SIGN TO REMAIN	5133+49.31	107.12' RT	-	-	2.00	3.00	-	-	-				-				
	CPL-17-ST	NO PARKING TOW ZONE	R7-201-4	EXISTING SIGN TO REMAIN	5134+48.10	96.50' RT	-	-	1.50	1.50	-	-	1								
	CPL-18-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5135+98.94	82.57' RT	5135+98.94	82.57' RT	1.50	1.50	1.50	1.50	1	3			3			1	
	CPL-19-ST	NO PARKING TOW ZONE	R7-201-4	REMOVE AND REPLACE SIGN	5136+67.02	75.92' RT	5136+67.02	75.92' RT	1.50	1.50	1.50	1.50	1	3			3			1	
	CPL-20-ST	STOP	R1-1	REMOVE AND REPLACE SIGN	5139+10.23	60.75' RT	5139+10.23	60.75' RT	2.50	2.50	2.50	2.50	-	7			7				
	CPL-21-ST	CROSS TRAFFIC DOES NOT STOP	W4-4P	REMOVE AND REPLACE SIGN	5139+10.23	60.75' RT	5139+10.23	60.75' RT	2.00	1.00	2.00	1.00	1	2			2			1	
RAMP ES	ES-01-BS	EXIT 52A, TAYLOR ST, ROOSEVELT RD, 1/4 MILE	CUSTOM	REMOVE AND REPLACE SIGN	1510+19.60	23.37' RT	-	-	16.00	11.00	16.00	11.00	2								
	ES-02-MP	MERGE	W4-1	EXISTING SIGN TO REMAIN	111+52.17	15.70' LT	-	-	4.00	4.00	4.00	4.00	1		16			16			8
	ES-03-MP	RAMP 30 MPH	W13-3	REMOVE AND REPLACE SIGN	113+82.82	37.72' LT	113+82.82	37.72' LT	3.00	4.00	3.00	4.00	1		12			12			8
SB I-90/94	SB-01-OH	EXIT 53, ST LOUIS, LAKE SHORE DR, 1 MILE	CUSTOM	EXISTING SIGN TO REMAIN	5+64.29	1.62	-	-	20.5	14.5	-	-	-								
	SB-02-OH	EXIT 52C, 18TH ST, 3/4 MILE	CUSTOM	EXISTING SIGN TO REMAIN	5+64.29	1.62	-	-	12	14.5	-	-	-								
	SB-03-OH	EXIT 52A, TAYLOR ST ROOSEVELT RD	CUSTOM	EXISTING SIGN TO REMAIN	5+64.29	1.62	-	-	21	14.5	-	-	-								
	SB-04-MP	EXIT 52A	E5-1A	REMOVE AND REPLACE SIGN	209+76.35	21.00' LT	209+76.35	21.00' LT	9.00	5.00	9.00	5.00	1			45			45		9
TOTAL													65	28	45	65	28	45	15	24	



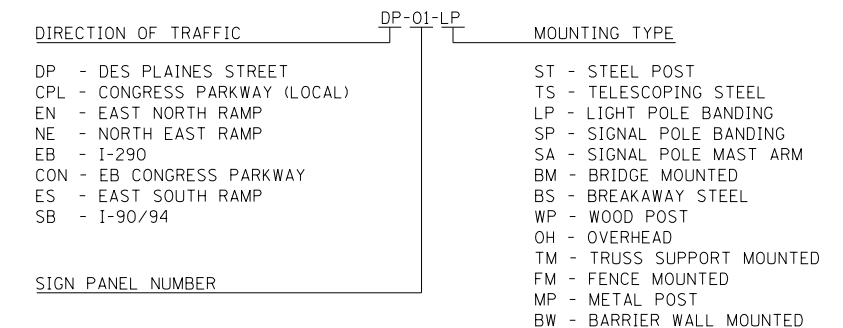
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CPL-02-ST CPL-03-ST
CPL-04-ST CPL-05-ST
CPL-06-ST CPL-08-ST
CPL-09-ST CPL-10-ST
CPL-18-ST CPL-19-ST
VB-02-ST VB-05-ST
VB-06-ST VB-07-ST

NOTES

1. FOR CDOT SIGN PANEL DETAILS SEE THE MOST CURRENT EDITION OF "THE FIELD MANUAL FOR SIGN INSTALLATION GUIDE" AND "SIGN FABRICATION AND INSTALLATIONS" MANUALS.

SIGN NUMBERING CODE EXAMPLE



R6-2 REFLECTIVE: YES MOUNT: CENTER (24"x36")

CPL-07-ST



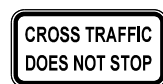
R3-2 REFLECTIVE: YES MOUNT: CENTER (24"x24")

CPL-11-ST



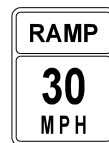
R1-1 REFLECTIVE: YES MOUNT: CENTER (30"x30")

CPL-20-ST



W4-4P REFLECTIVE: YES MOUNT: CENTER (24"x12")

CPL-21-ST



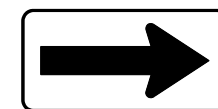
W13-3 REFLECTIVE: YES MOUNT: CENTER (36"x48")

ES-03-MP



E5-1A REFLECTIVE: YES MOUNT: CENTER (108"x60")

SB-04-MP



W1-6 REFLECTIVE: YES MOUNT: CENTER (48"x24")

CPL-13-ST CPL-15-ST VB-04-ST



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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

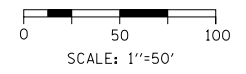
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING SCHEDULE

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 332
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

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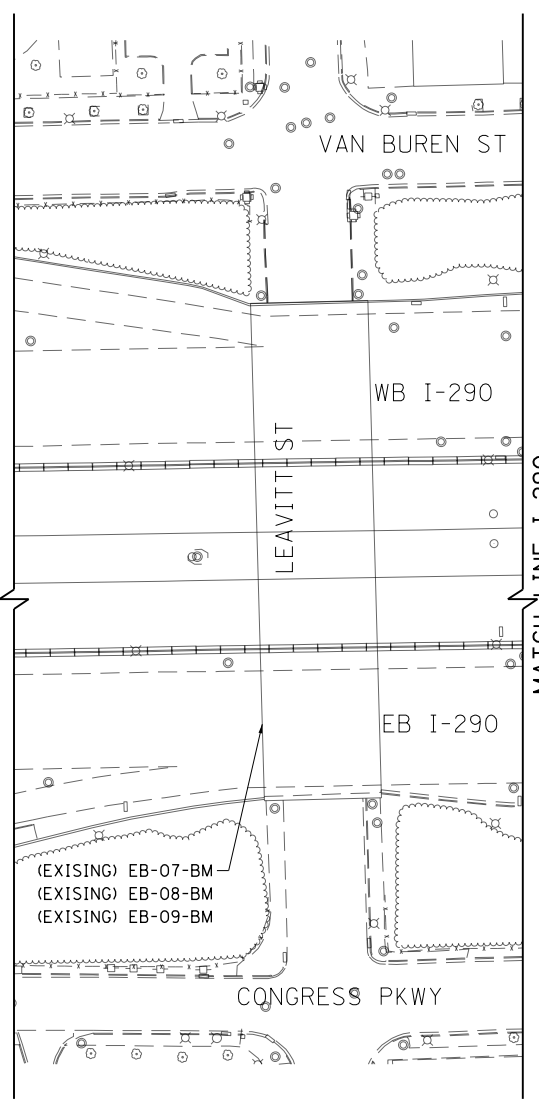
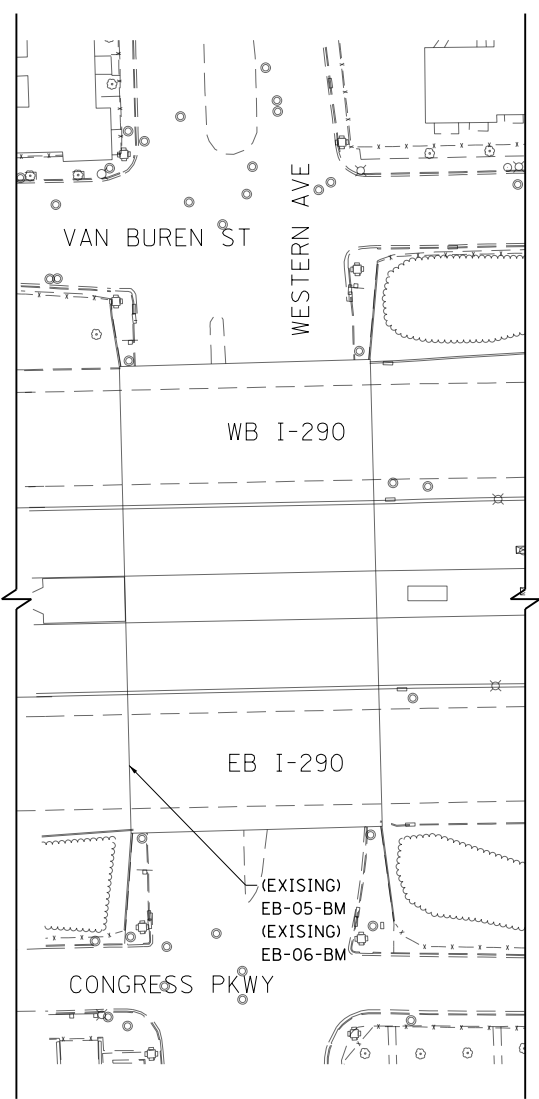
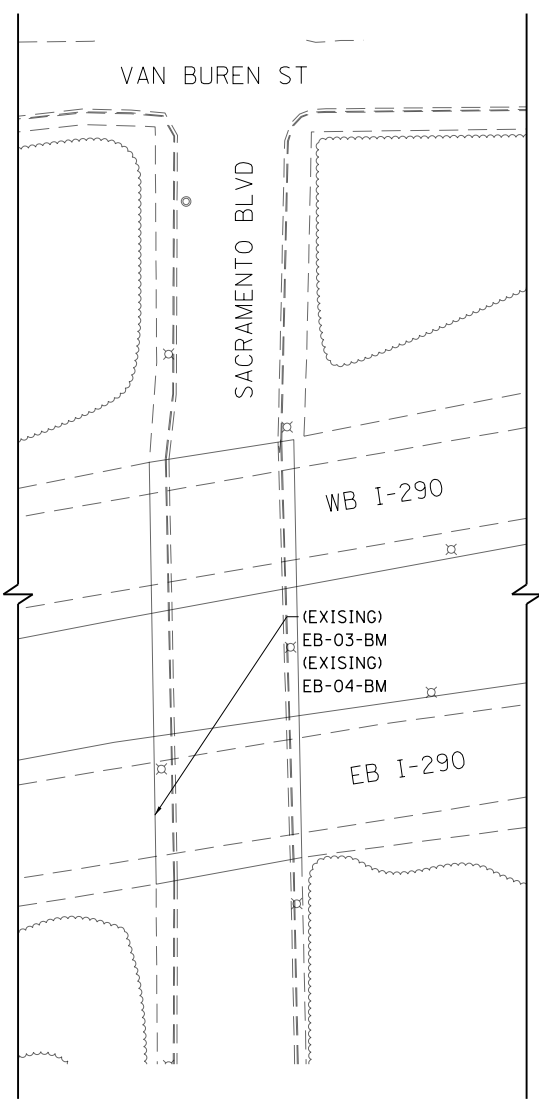
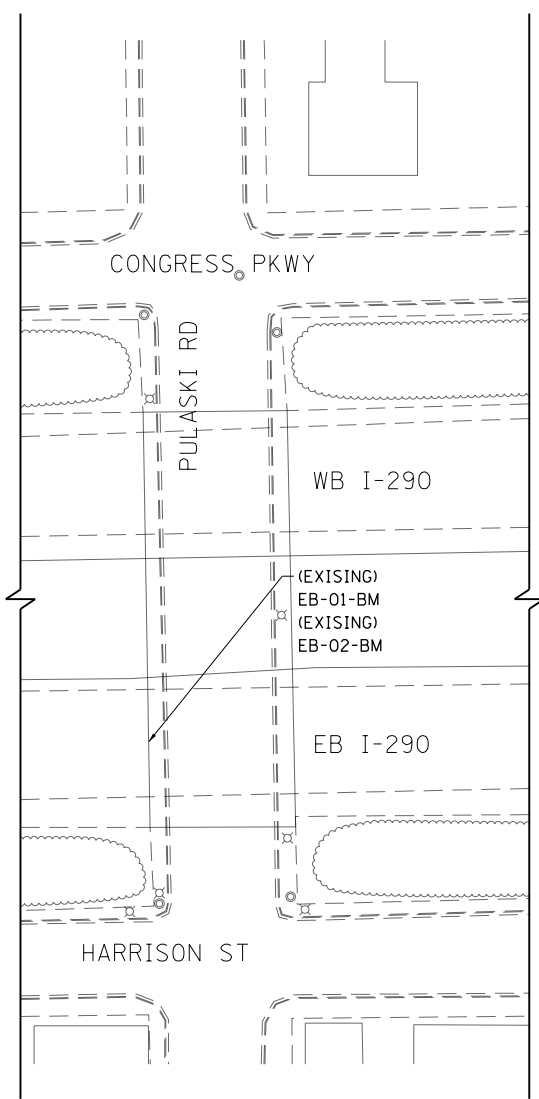
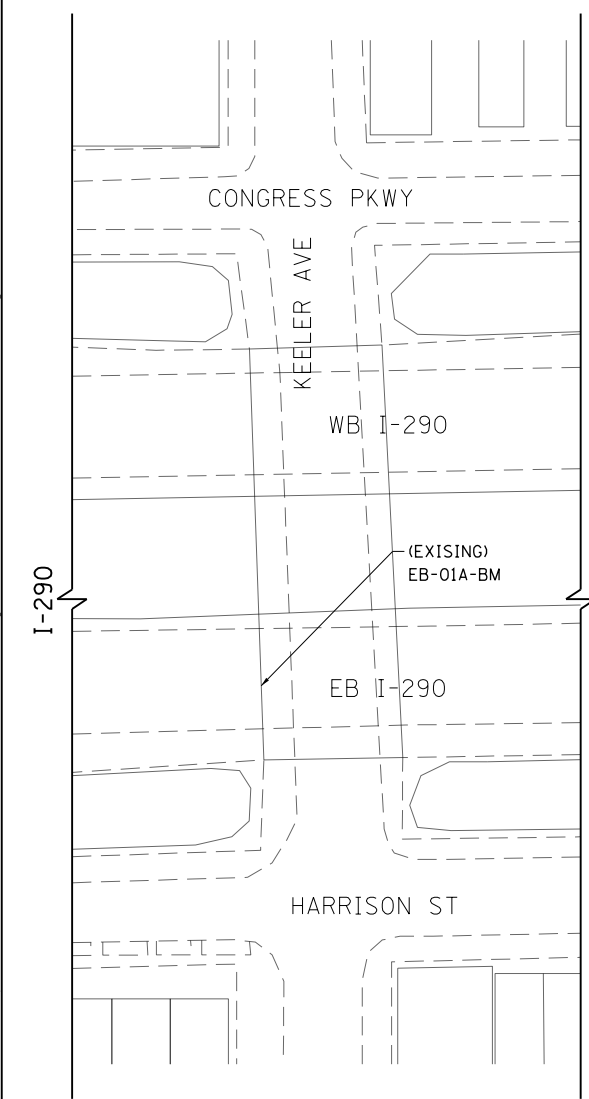
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EXIT 26 A
Independence Blvd
¼ MILE

(EXISTING)
EB-01-BM
EXIT 27 A
Sacramento Blvd
1 MILE

(EXISTING)
EB-02-BM
EXIT 26 A
Independence Blvd
3800 W

(EXISTING)
EB-03-BM
EXIT 28 A
Damen Ave
1 MILE

(EXISTING)
EB-04-BM
EXIT 27 C
Western Ave
¼ MILE



MATCH LINE I-290
SEE SHEET 336

(EXISTING)
EB-05-BM
EXIT 28 B
Paulina St
Ashland Ave
¾ MILE

(EXISTING)
EB-06-BM
EXIT 28 A
Damen Ave
¼ MILE

(EXISTING)
EB-07-BM
EXIT 29 A
Racine Ave
1 MILE

(EXISTING)
EB-08-BM
EXIT 28 B
Paulina St
Ashland Ave
½ MILE

(EXISTING)
EB-09-BM
EXIT 28 A
Damen Ave
2000 W

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET	DP-01-LP	ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

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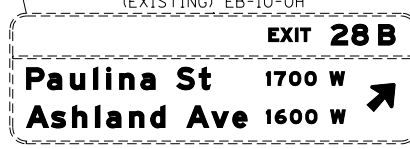
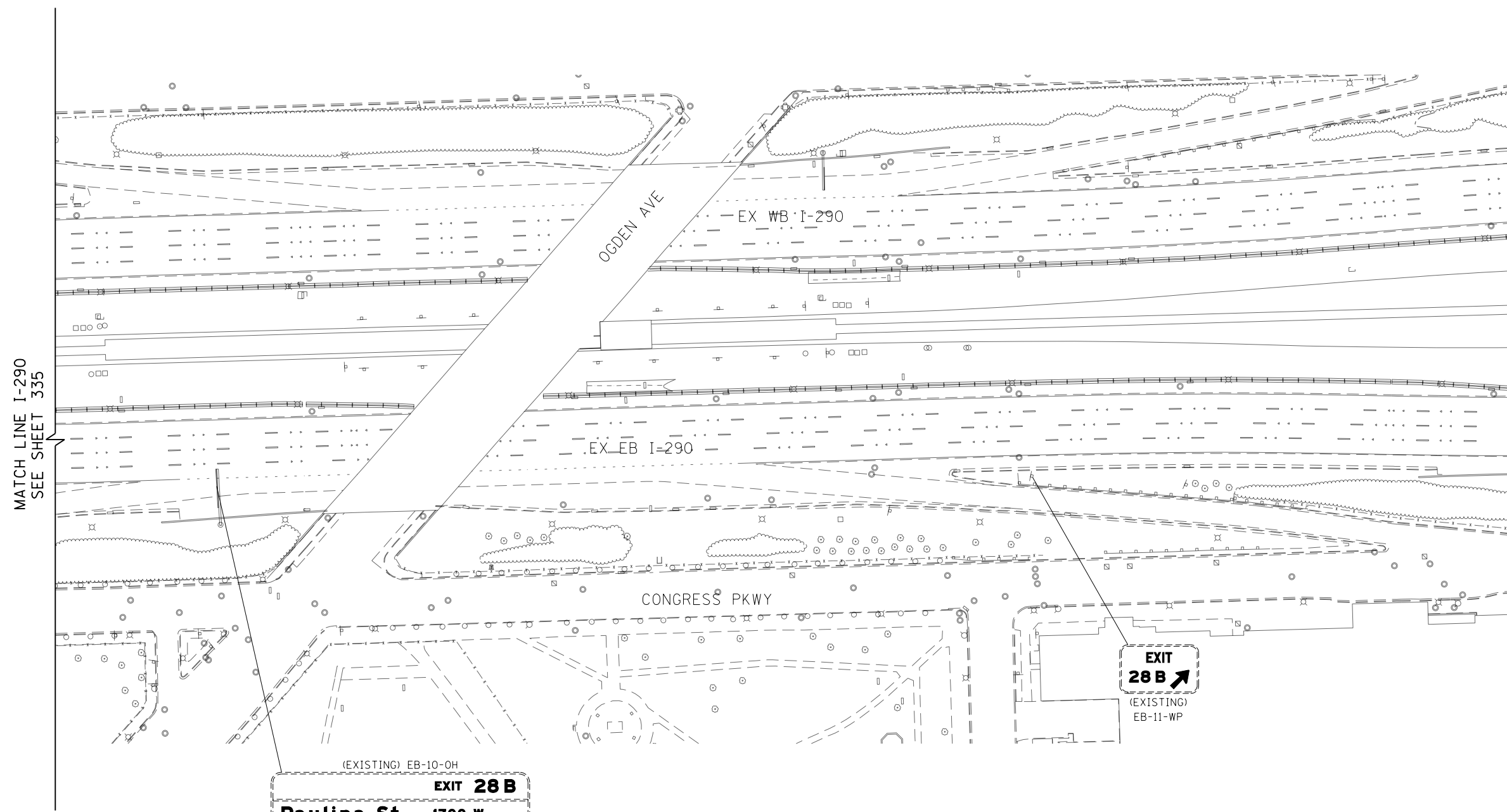
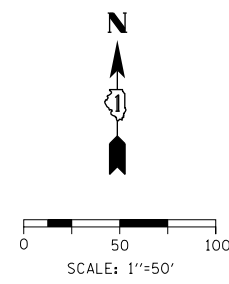
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USER NAME = vljanachione
PLOT SCALE = 100.0000' / in.
PLOT DATE = 5/9/2017

DESIGNED - VLJ
DRAWN - VLJ
CHECKED - MKW
DATE - 5/10/17
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
EASTBOUND I-290
SCALE: 1"=50'
SHEET 1 OF 10 SHEETS
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	335
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET	DP-01-LP	ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
SIGN PANEL NUMBER		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

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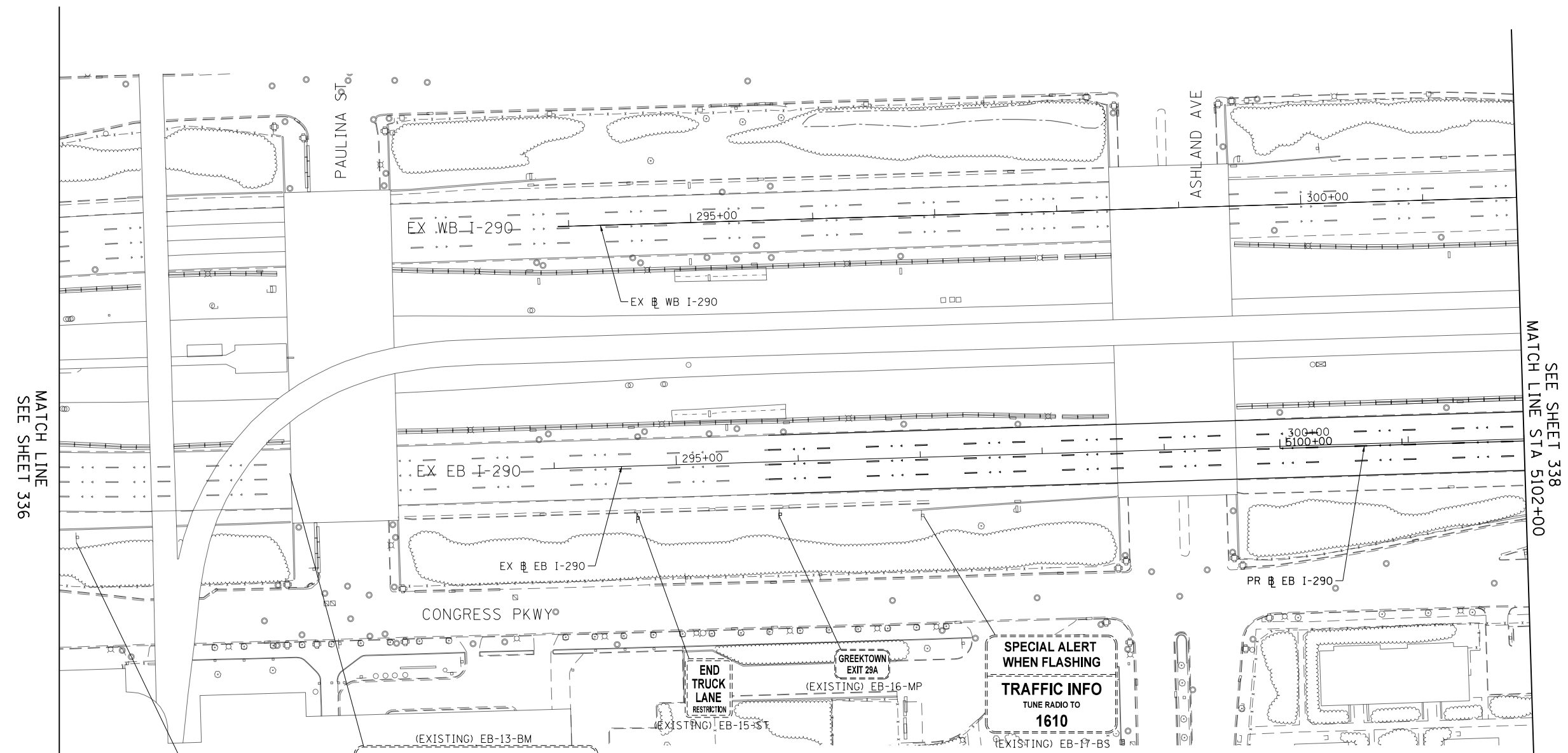
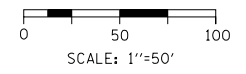
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USER NAME = vjjanachione	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 5/9/2017	DATE = 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
EASTBOUND I-290**

SCALE: 1"=50'	SHEET 2	OF 10 SHEETS	STA.	TO STA.
---------------	---------	--------------	------	---------

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 336
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



MATCH LINE
SEE SHEET 336

MATCH LINE STA 5102+00
SEE SHEET 338

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC		DP-01-LP	MOUNTING TYPE	
DP	- DES PLAINES STREET	<div style="border: 1px solid black; padding: 5px;"> 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 </div>	ST	- STEEL POST
CPL	- CONGRESS PARKWAY (LOCAL)		TS	- TELESCOPING STEEL
EN	- EAST NORTH RAMP		LP	- LIGHT POLE BANDING
NE	- NORTH EAST RAMP		SP	- SIGNAL POLE BANDING
EB	- I-290		SA	- SIGNAL POLE MAST ARM
CON	- EB CONGRESS PARKWAY		BM	- BRIDGE MOUNTED
ES	- EAST SOUTH RAMP		BS	- BREAKAWAY STEEL
SB	- I-90/94		WP	- WOOD POST
			OH	- OVERHEAD
			TM	- TRUSS SUPPORT MOUNTED
SIGN PANEL NUMBER			FM	- FENCE MOUNTED
			MP	- METAL POST
			BW	- BARRIER WALL MOUNTED

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USER NAME = vljanachione	DRAWN - VLJ	REVISED -
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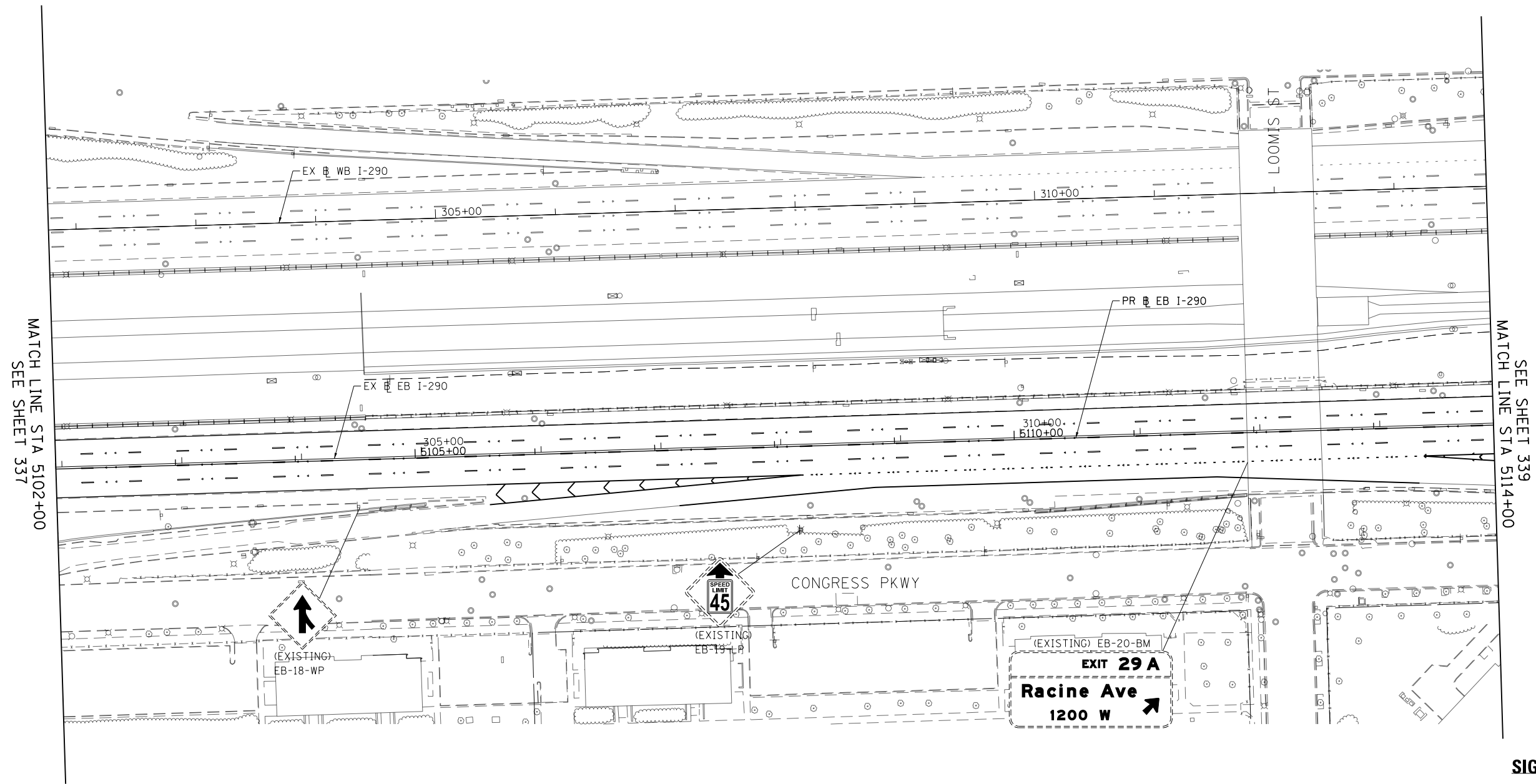
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLANS			
EASTBOUND I-290			
SCALE: 1"=50'	SHEET 3	OF 10 SHEETS	STA. TO STA. 5102+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	337
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



0 50 100
SCALE: 1"=50'



MATCH LINE STA 5102+00
SEE SHEET 337

MATCH LINE STA 5114+00
SEE SHEET 339

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC		DP-01-LP	MOUNTING TYPE	
DP	- DES PLAINES STREET		ST	- STEEL POST
CPL	- CONGRESS PARKWAY (LOCAL)		TS	- TELESCOPING STEEL
EN	- EAST NORTH RAMP		LP	- LIGHT POLE BANDING
NE	- NORTH EAST RAMP		SP	- SIGNAL POLE BANDING
EB	- I-290		SA	- SIGNAL POLE MAST ARM
CON	- EB CONGRESS PARKWAY		BM	- BRIDGE MOUNTED
ES	- EAST SOUTH RAMP		BS	- BREAKAWAY STEEL
SB	- I-90/94		WP	- WOOD POST
			OH	- OVERHEAD
			TM	- TRUSS SUPPORT MOUNTED
		FM	- FENCE MOUNTED	
		MP	- METAL POST	
		BW	- BARRIER WALL MOUNTED	

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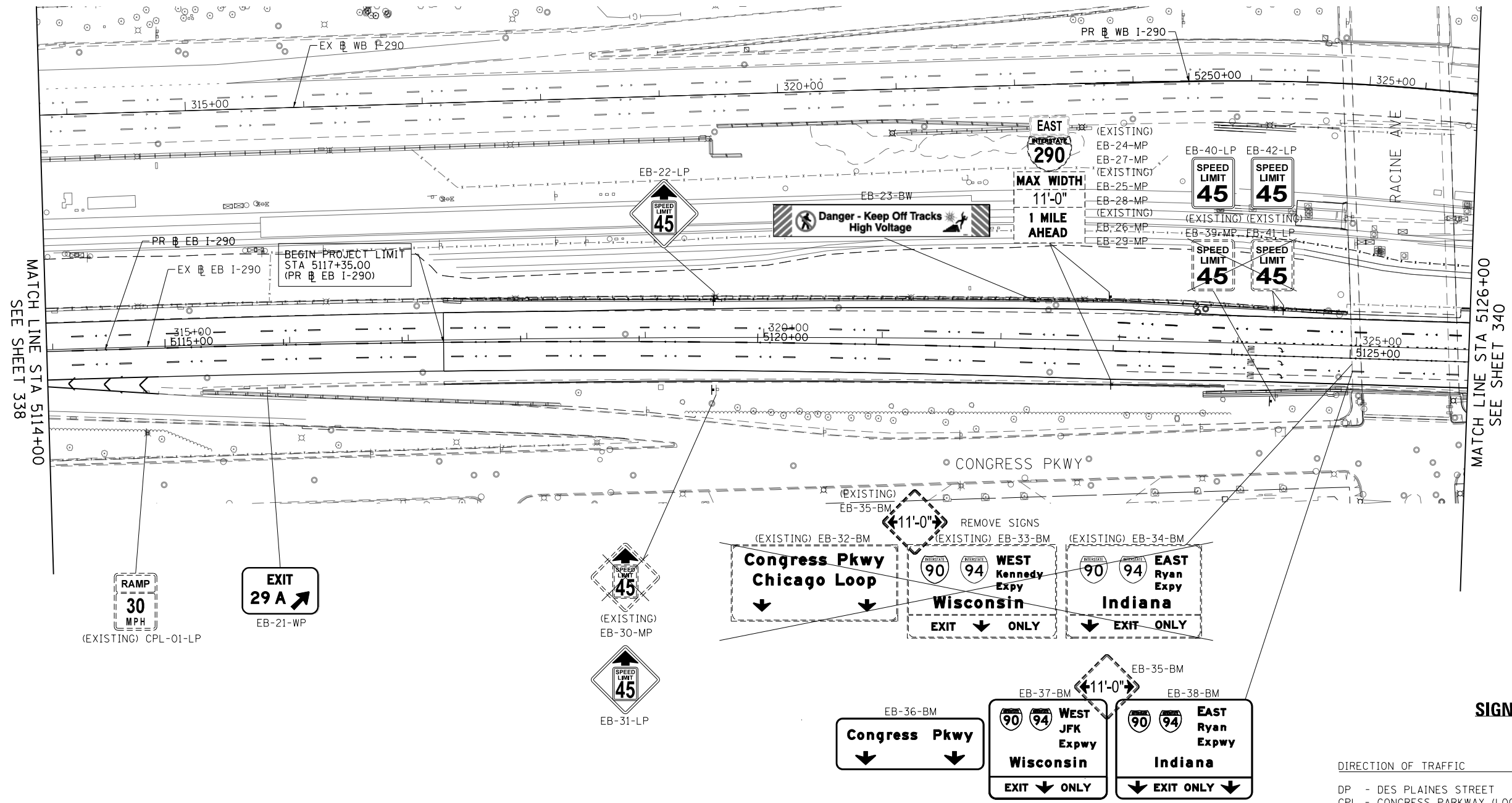
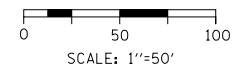
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
EASTBOUND I-290**

SCALE: 1"=50' SHEET 4 OF 10 SHEETS STA. 5102+00 TO STA. 5114+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	338
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET		ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

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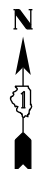
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

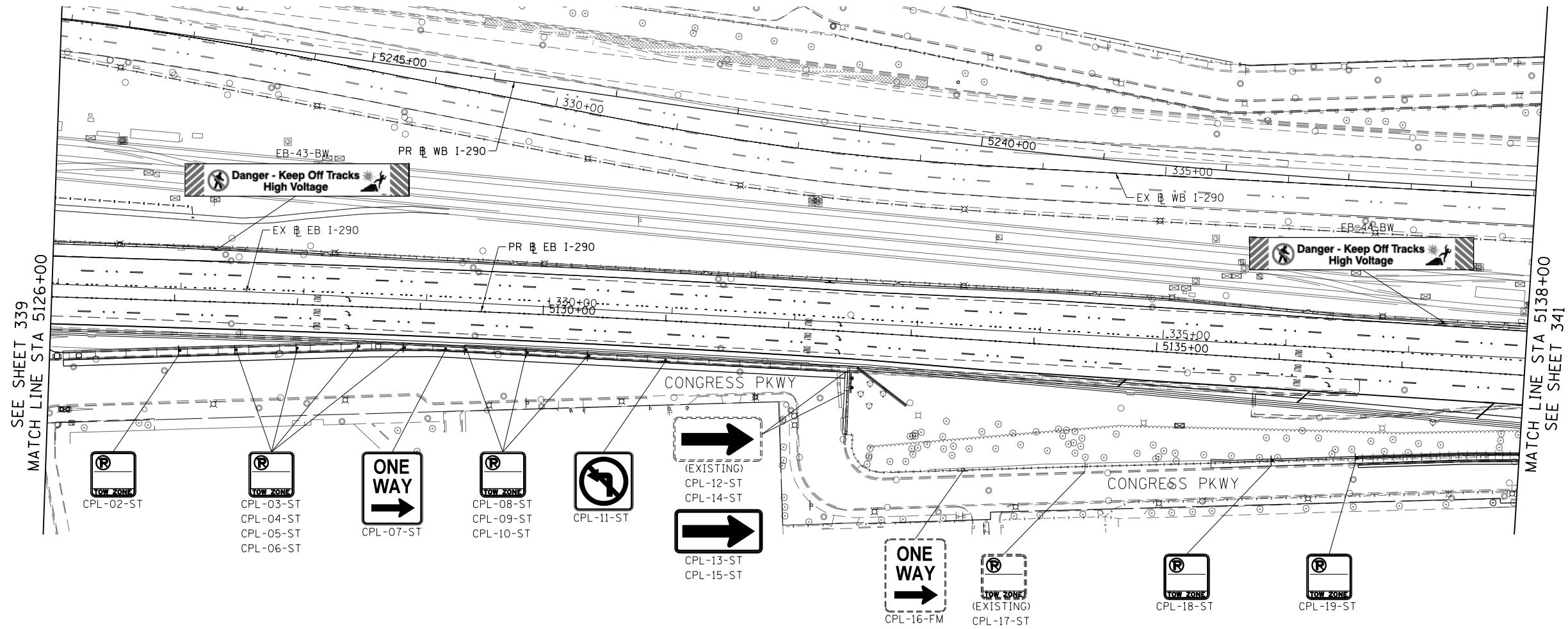
**SIGNING PLANS
EASTBOUND I-290**

SCALE: 1"=50' SHEET 5 OF 10 SHEETS STA. 5114+00 TO STA. 5126+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	339
				CONTRACT NO. 60X76
ILLINOIS FED. AID PROJECT				



0 50 100
SCALE: 1"=50'



SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET		ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

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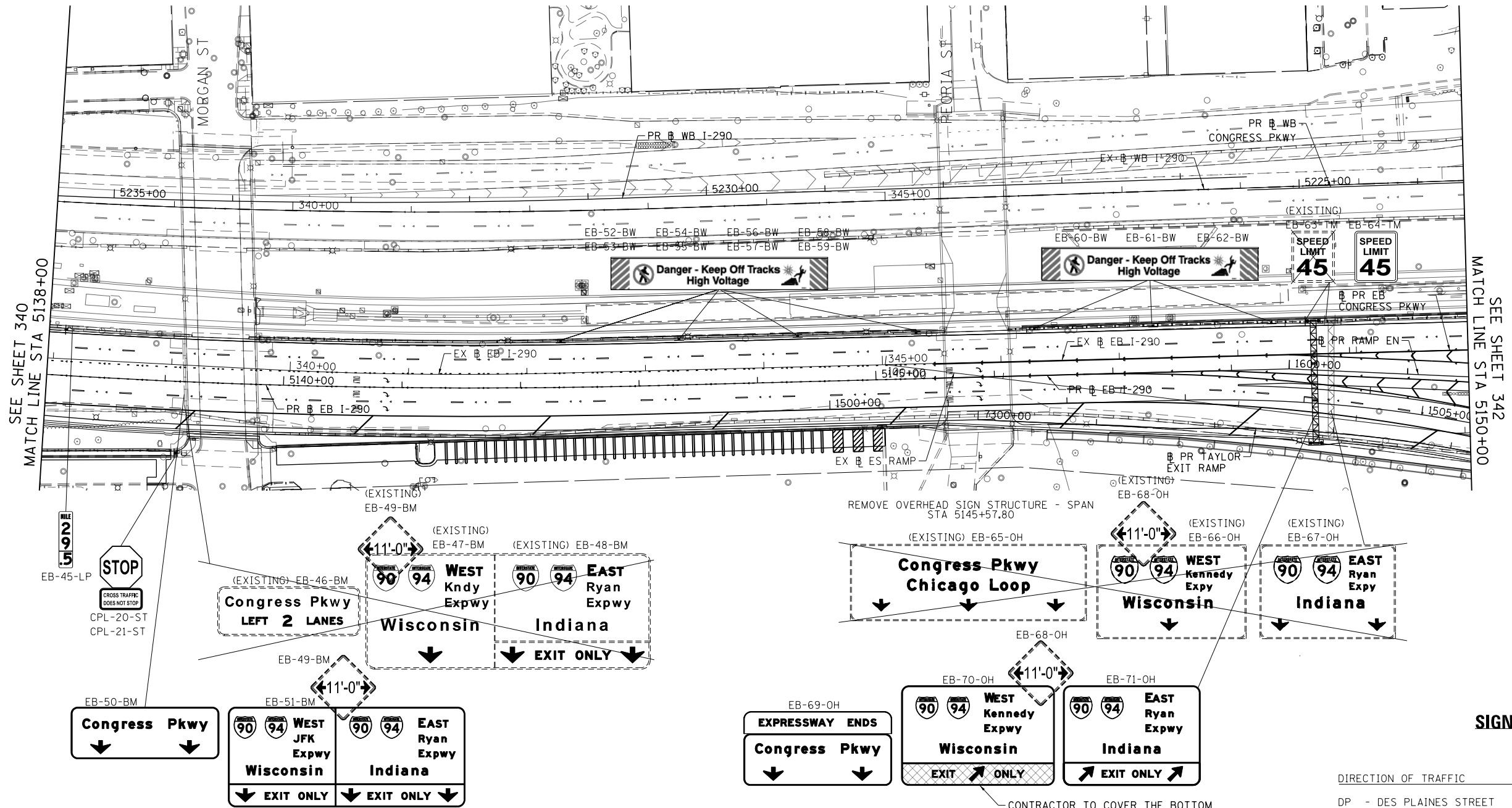
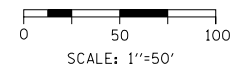
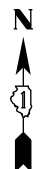


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

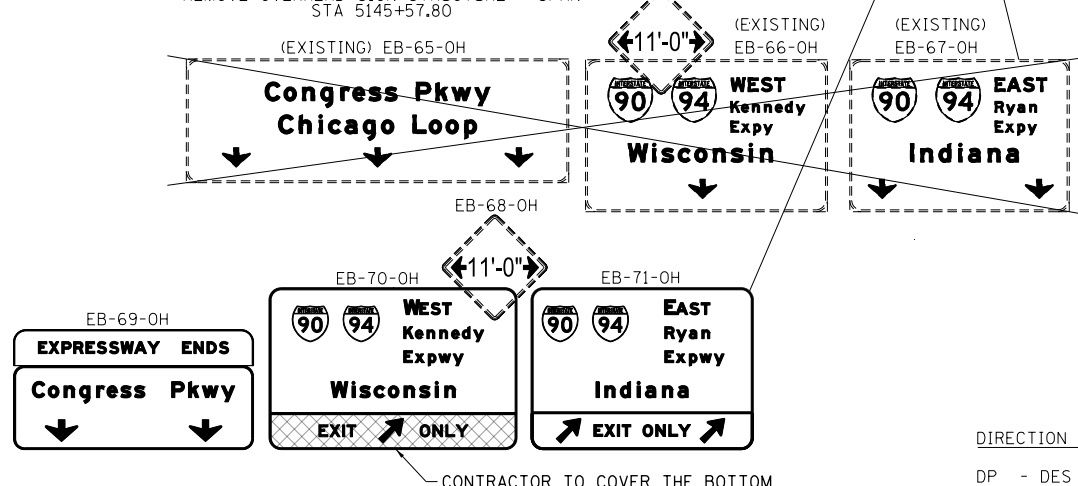
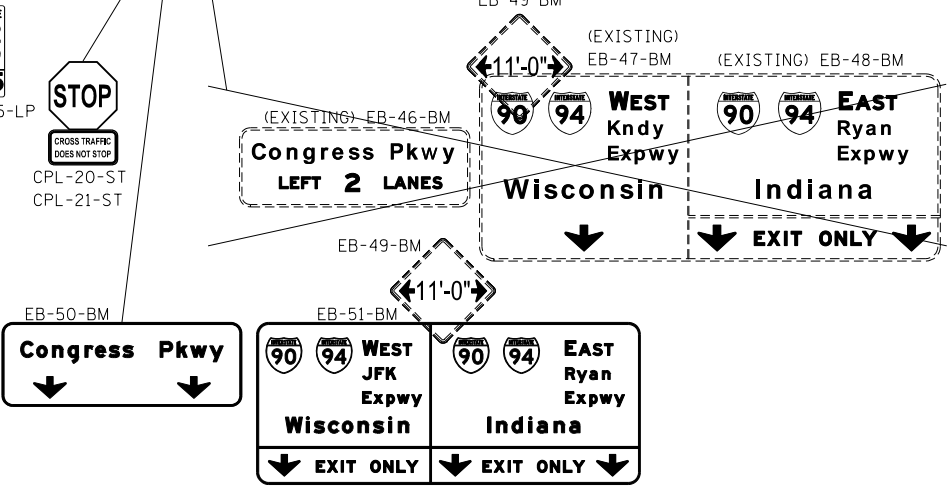
SIGNING PLANS EASTBOUND I-290	
SCALE: 1"=50'	SHEET 6 OF 10 SHEETS
STA. 5126+00	TO STA. 5138+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	340
			CONTRACT NO. 60X76	
ILLINOIS FED. AID PROJECT				



SEE SHEET 340
MATCH LINE STA 5138+00

SEE SHEET 342
MATCH LINE STA 5150+00



SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET		ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

CONTRACTOR TO COVER THE BOTTOM PANEL WITH SIGN OVERLAY AS SHOWN. SEE SHEET 376 FOR DETAILS.

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D160X76-SHT-SIGN-06.dgn
 USER NAME = v1janachione
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - MKW
 DATE - 5/10/17

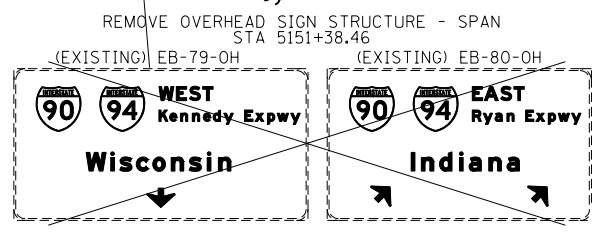
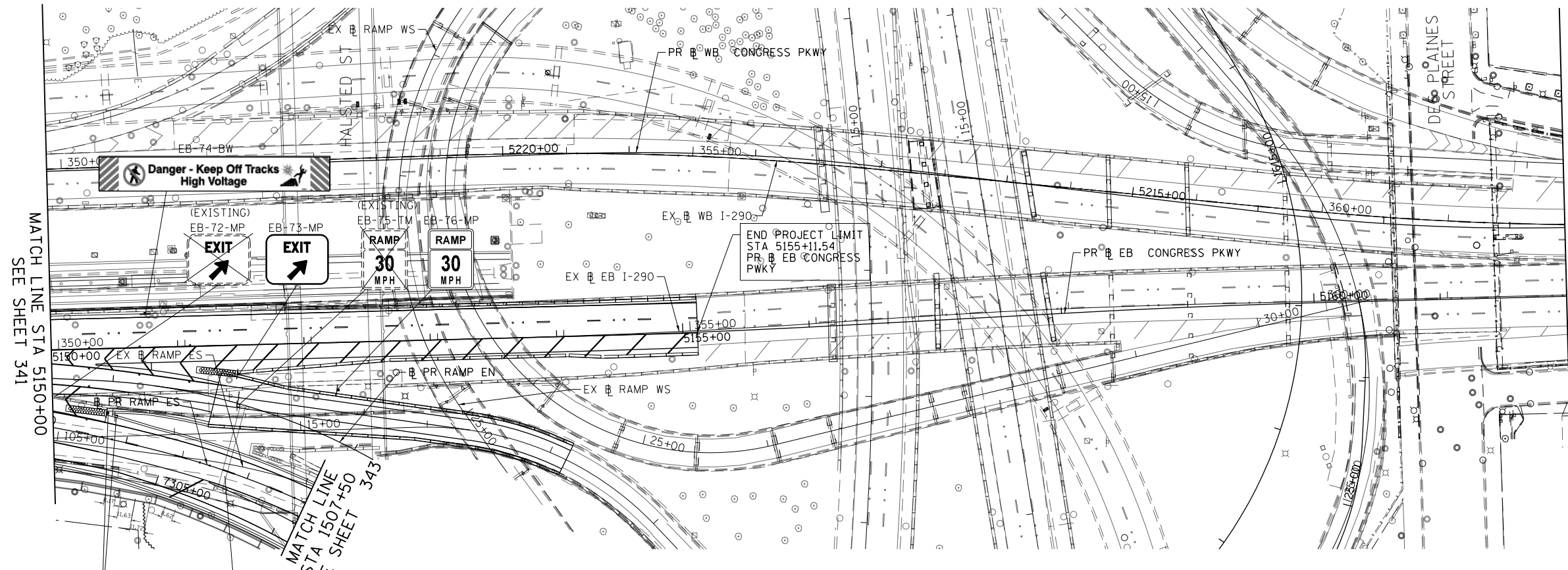
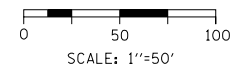
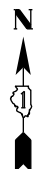
REVISED -
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 REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLANS EASTBOUND I-290

SCALE: 1"=50' SHEET 7 OF 10 SHEETS STA. 5138+00 TO STA. 5150+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	341
				CONTRACT NO. 60X76
ILLINOIS FED. AID PROJECT				



SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET		ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

SIGN PANEL NUMBER

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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

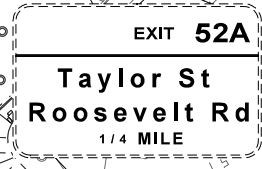
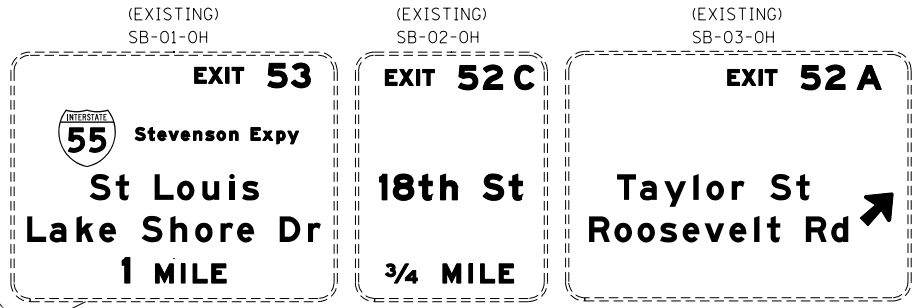
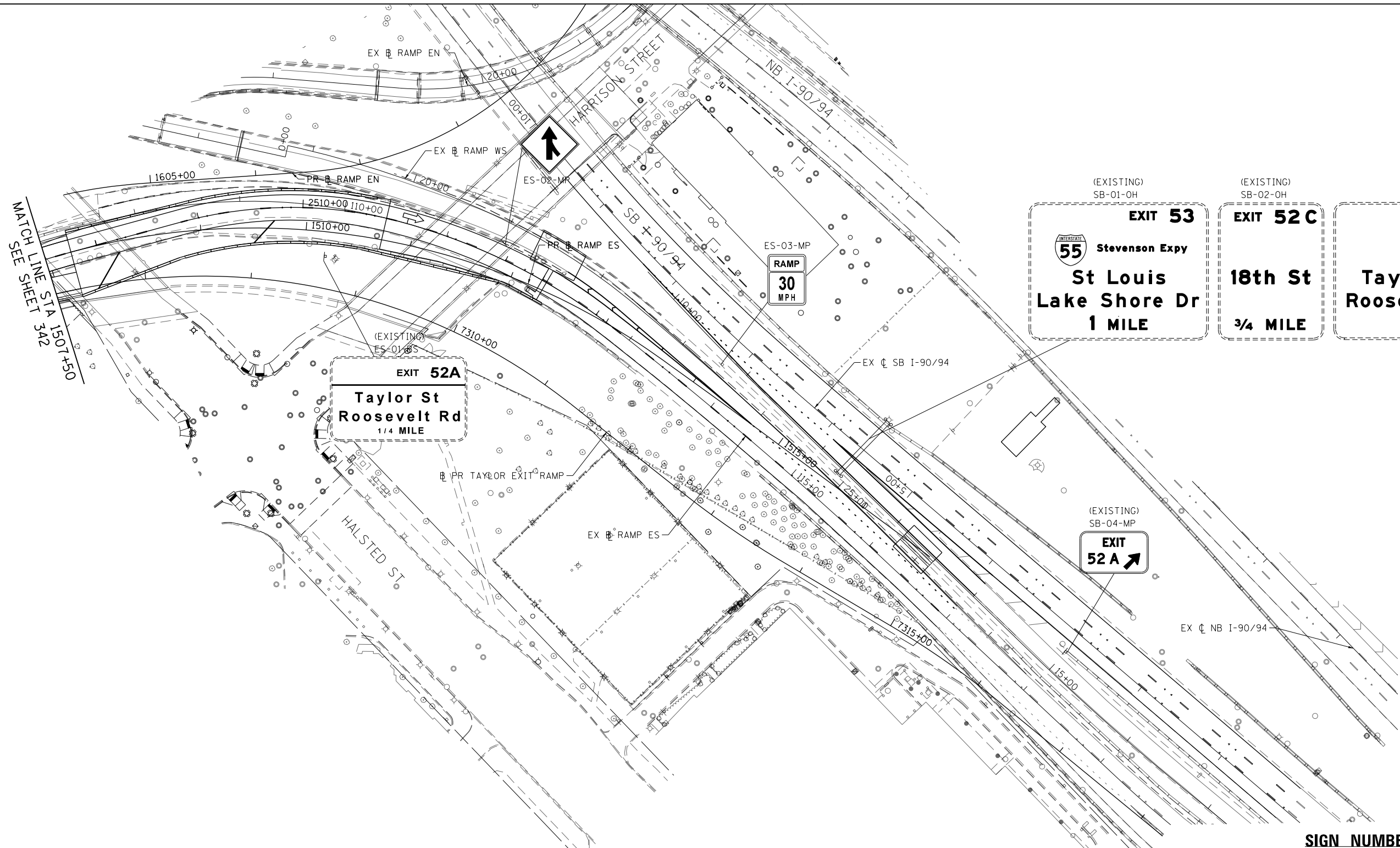
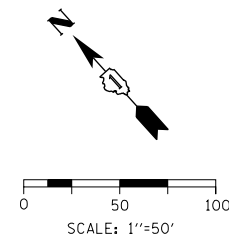
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
EASTBOUND I-290**

SCALE: 1"=50' SHEET 8 OF 10 SHEETS STA. 5150+00 TO STA. 5162+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	342
				CONTRACT NO. 60X76

ILLINOIS FED. AID PROJECT



MATCH LINE STA 1507+50 SEE SHEET 342

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
DP - DES PLAINES STREET		ST - STEEL POST
CPL - CONGRESS PARKWAY (LOCAL)		TS - TELESCOPING STEEL
EN - EAST NORTH RAMP		LP - LIGHT POLE BANDING
NE - NORTH EAST RAMP		SP - SIGNAL POLE BANDING
EB - I-290		SA - SIGNAL POLE MAST ARM
CON - EB CONGRESS PARKWAY		BM - BRIDGE MOUNTED
ES - EAST SOUTH RAMP		BS - BREAKAWAY STEEL
SB - I-90/94		WP - WOOD POST
		OH - OVERHEAD
		TM - TRUSS SUPPORT MOUNTED
		FM - FENCE MOUNTED
		MP - METAL POST
		BW - BARRIER WALL MOUNTED

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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
EB I-290 / I-90/94**

SCALE: 1"=50' SHEET 9 OF 10 SHEETS STA. 7306+14 TO STA. 7321+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	343
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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SHEET INTENTIONALLY BLANK



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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

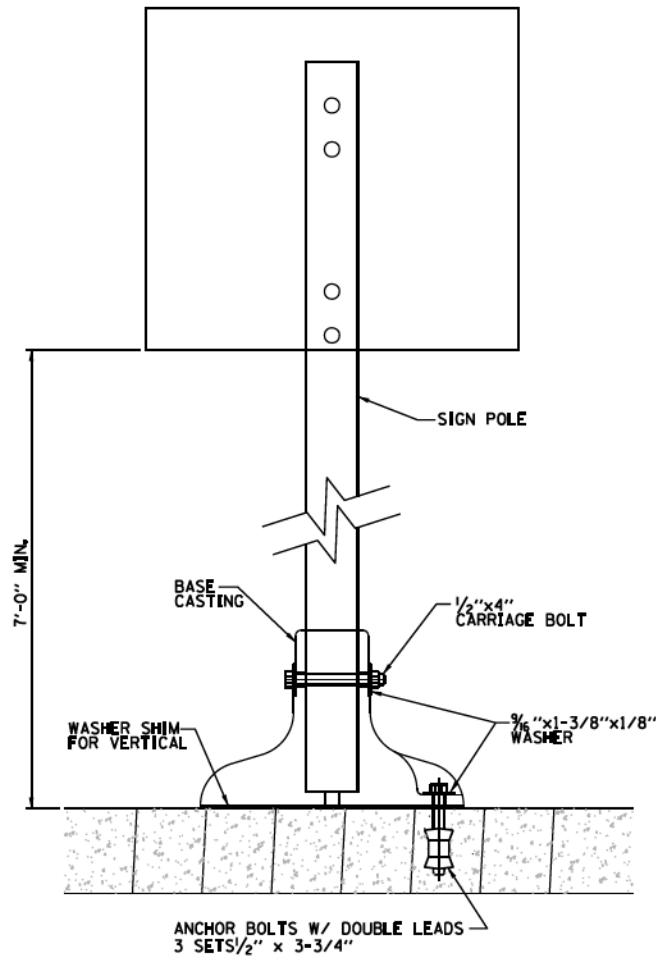
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING PLANS

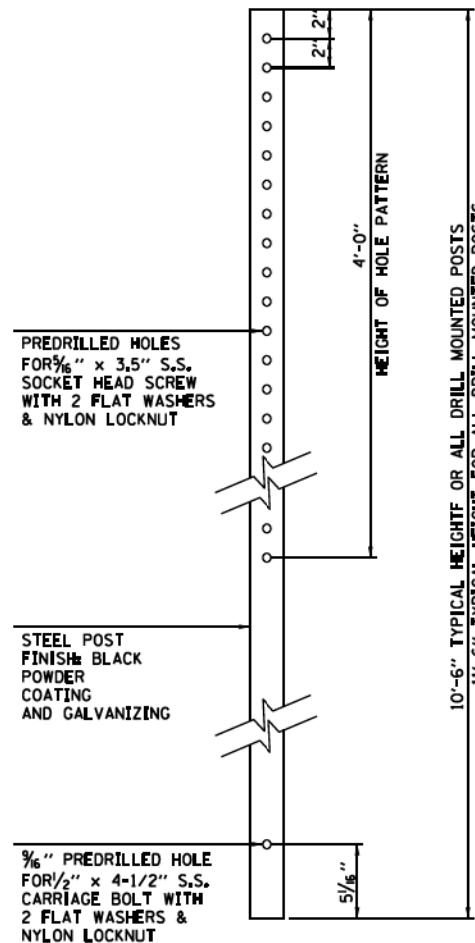
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	344
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

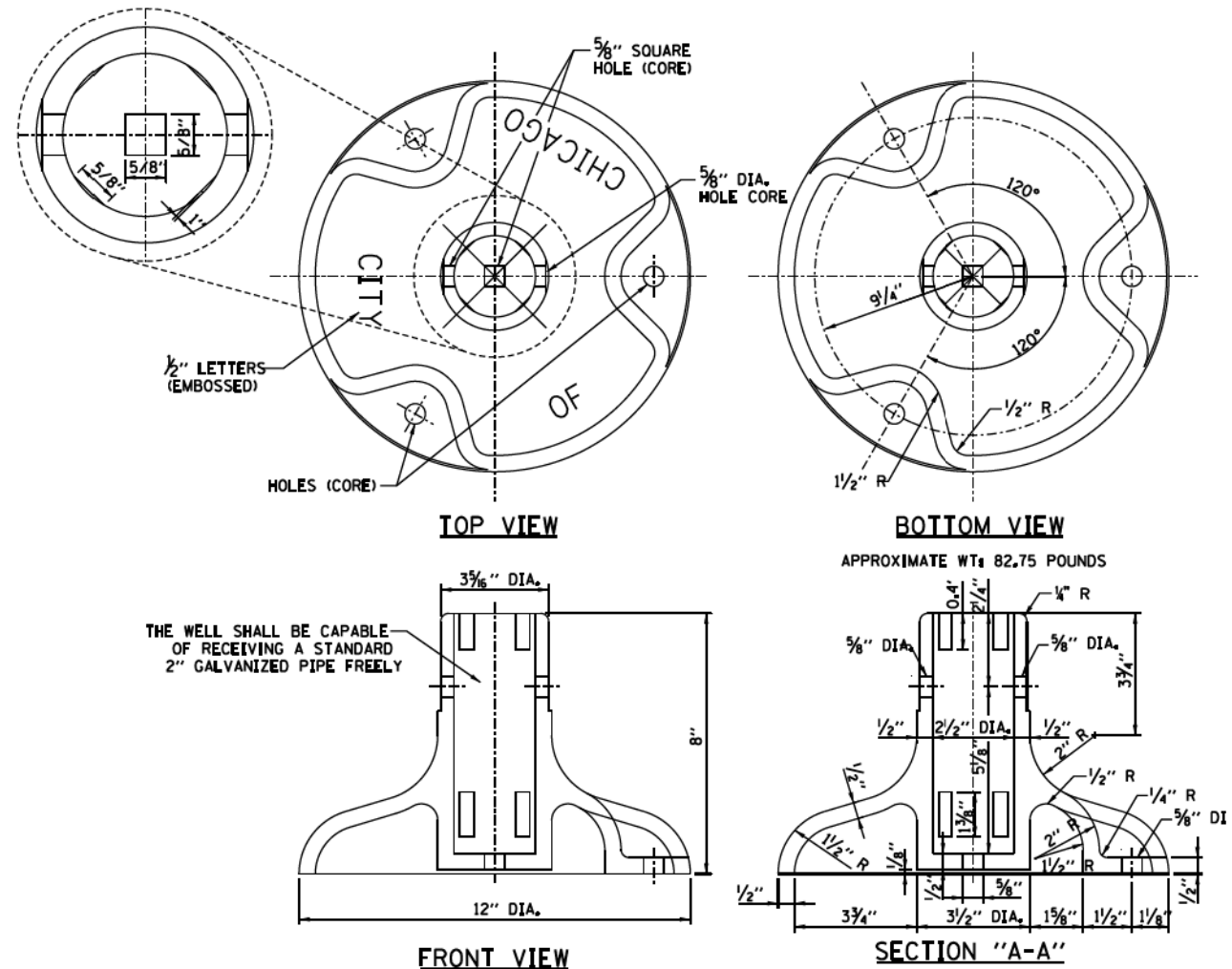
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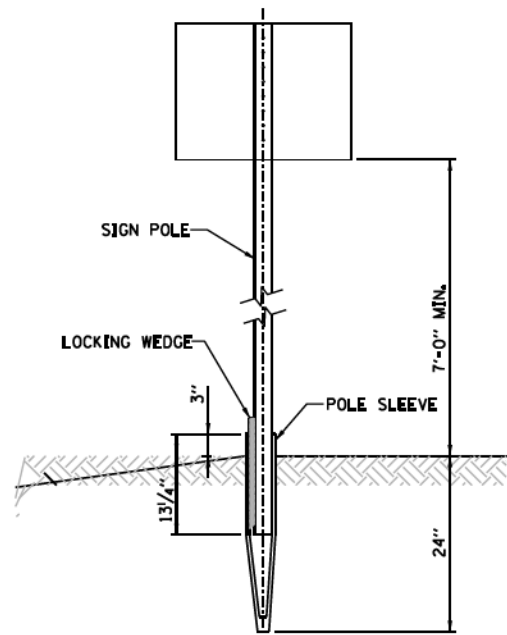
DRILL MOUNTED INSTALLATION DETAIL
NOT TO SCALE



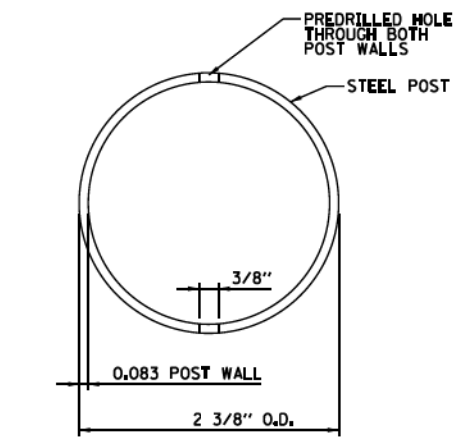
1 ELEVATION: DRILLED SIGN POST
NOT TO SCALE



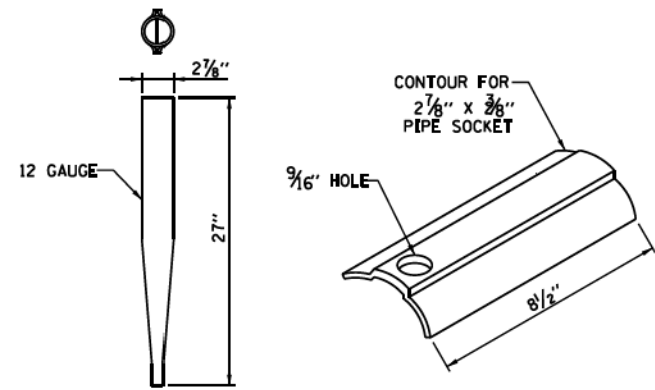
SIGN POLE BASE DETAIL
NOT TO SCALE



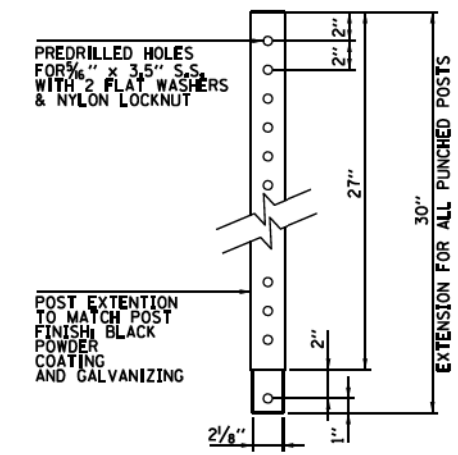
GROUND DIG INSTALLATION DETAIL
NOT TO SCALE



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 5/8\"/>

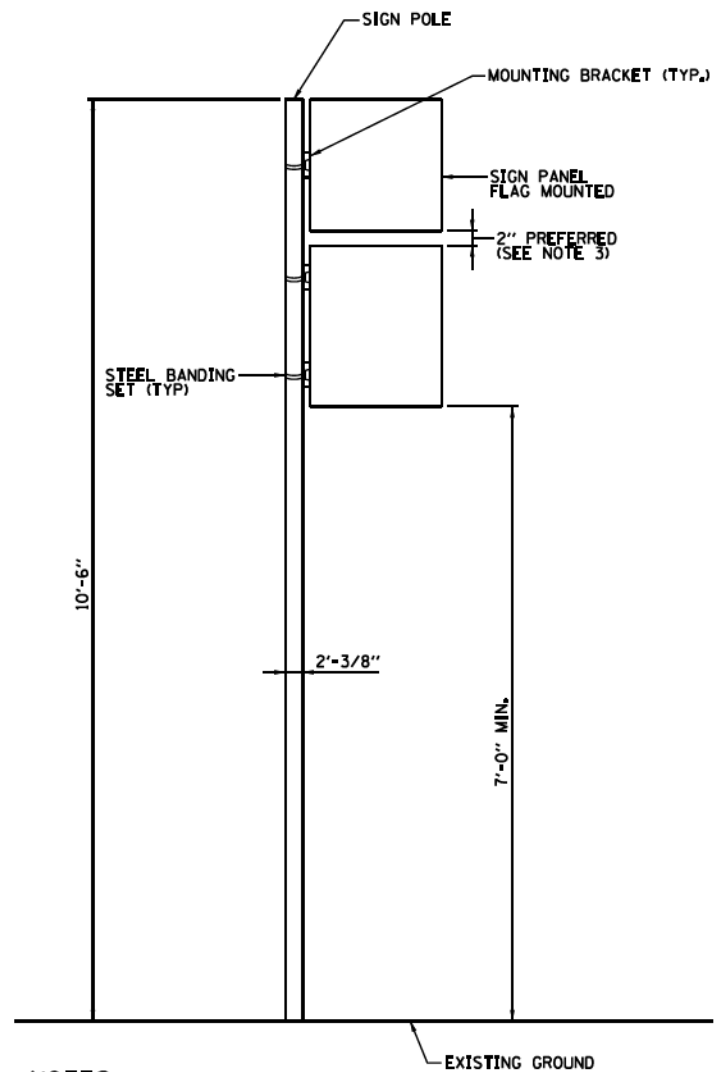
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS

SCALE: NONE SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	345
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

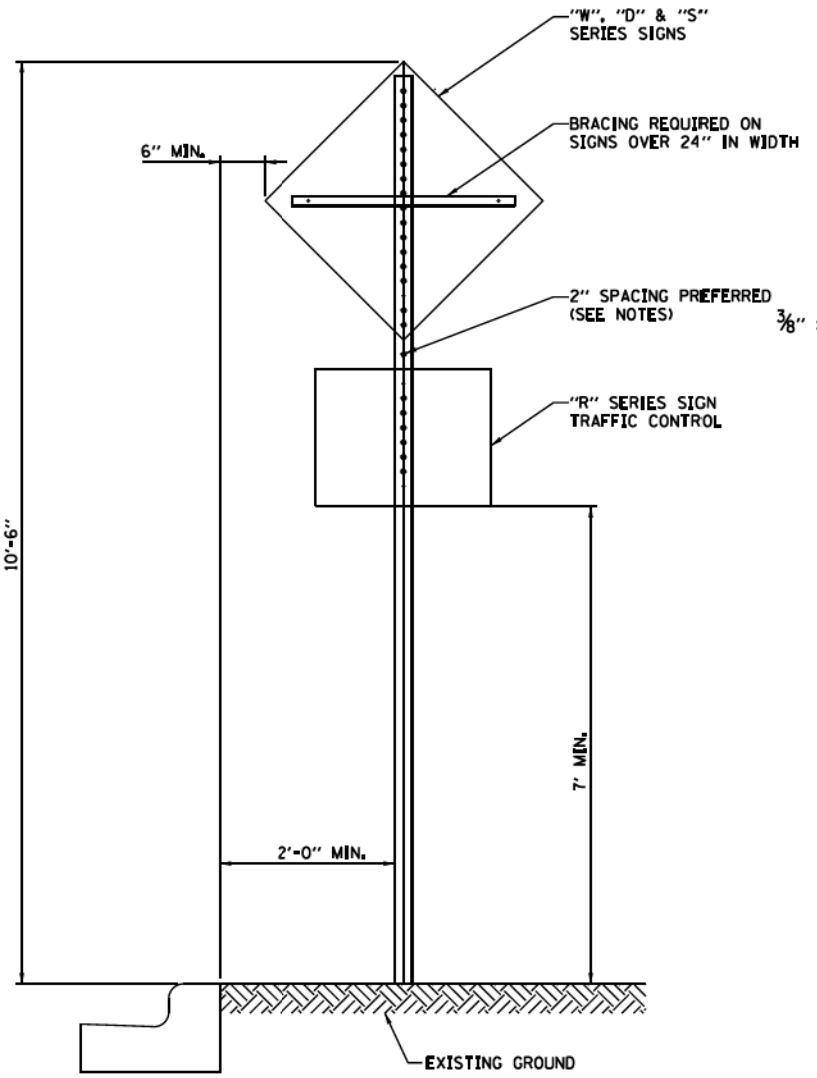
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NOTES:

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.

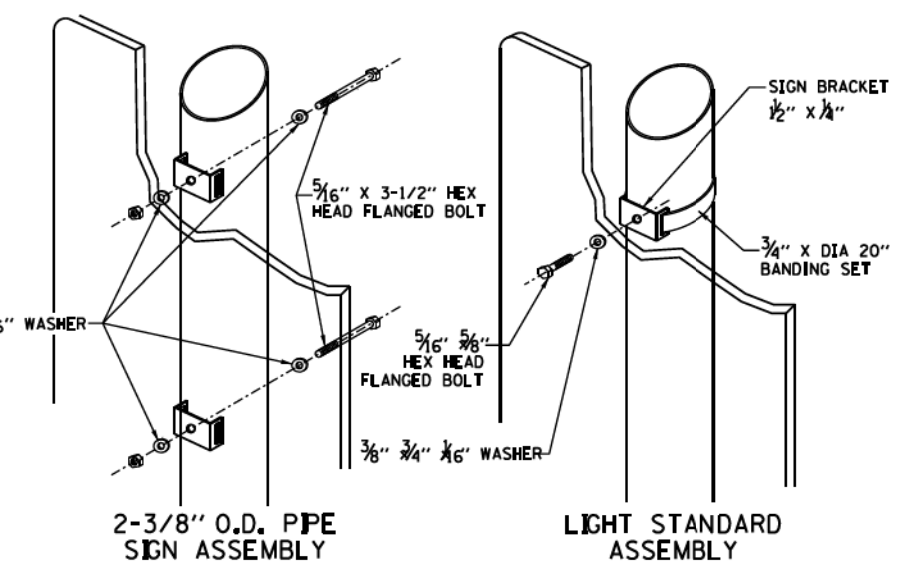
FLAG MOUNTED SIGN INSTALLATION DETAIL
NOT TO SCALE



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



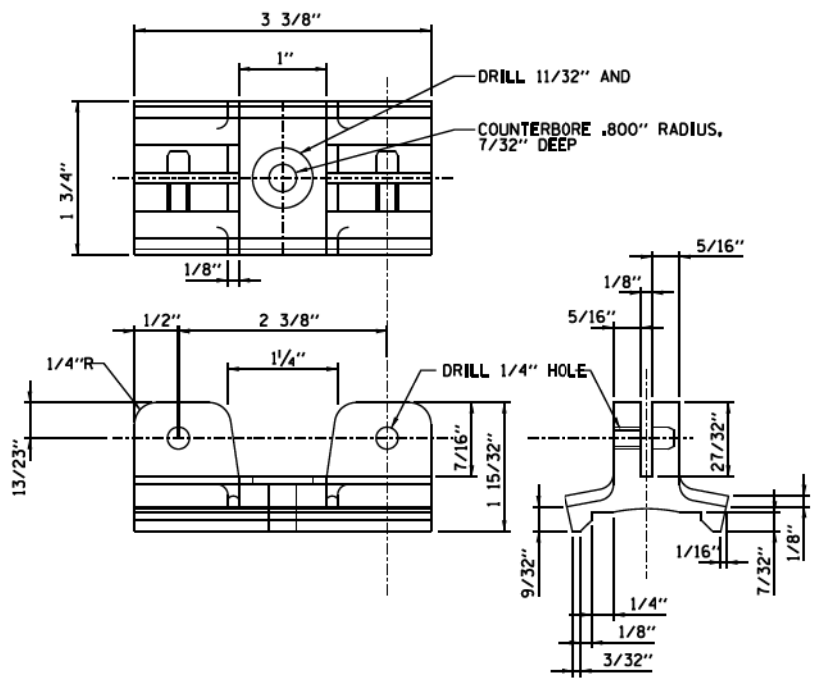
NOTE:

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

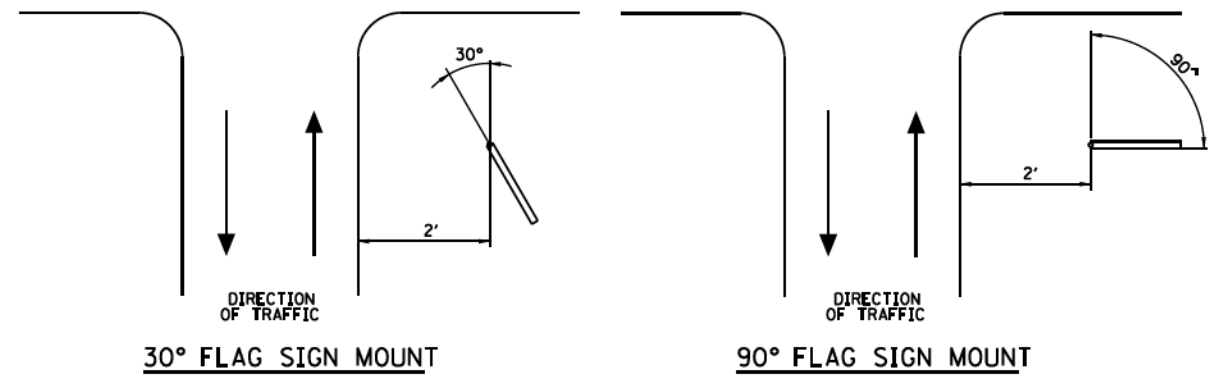
- 2 BANDS PER SIGN UNDER 6'
- 3 BANDS PER SIGN OVER 6'

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

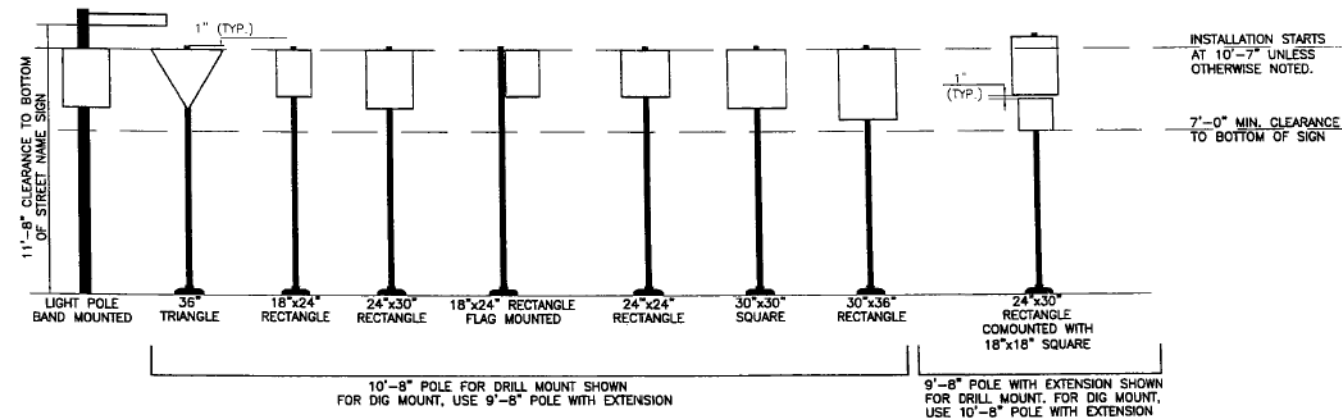
DI60X76-SHT-SIGN-11.dgn	DESIGNED - JDT	REVISED -
USER NAME = v1janachione	DRAWN - BAW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING DETAILS			
SCALE: NONE	SHEET 2	OF 5 SHEETS	STA. TO STA.

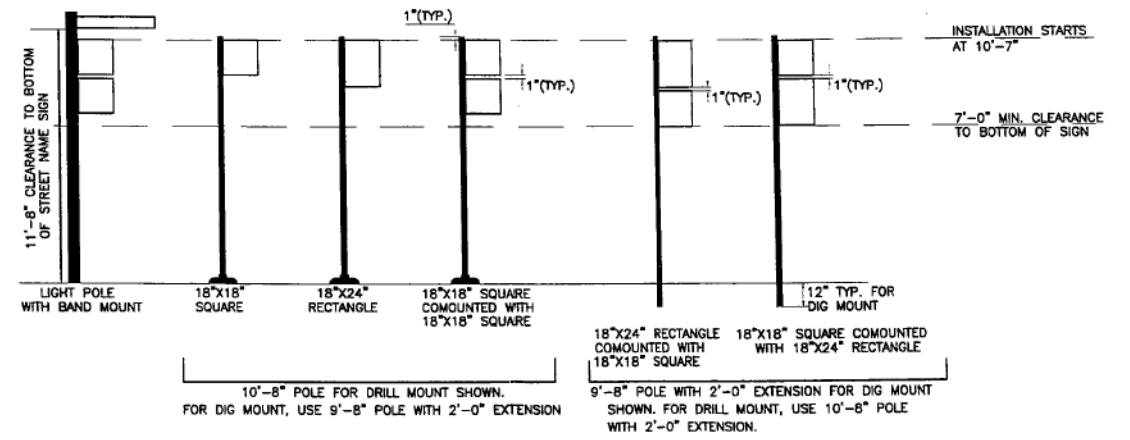
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	346
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

**REGULATORY TRAFFIC SIGNS
(CHICAGO STYLE)**



**TYPICAL LAYOUT
NOT TO SCALE**

**REGULATORY PARKING SIGNS
(CHICAGO STYLE)**



**TYPICAL LAYOUT
NOT TO SCALE**

FILE PATH = p:\61779-P\MINT\secomon\line\local\IACOM_0502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\006_CAD\006_Roadway\Sheets\60X76_Contract\0160X76-SHT-SIGN-12.dgn



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PLOT SCALE = 20.0000' / in.
PLOT DATE = 5/9/2017

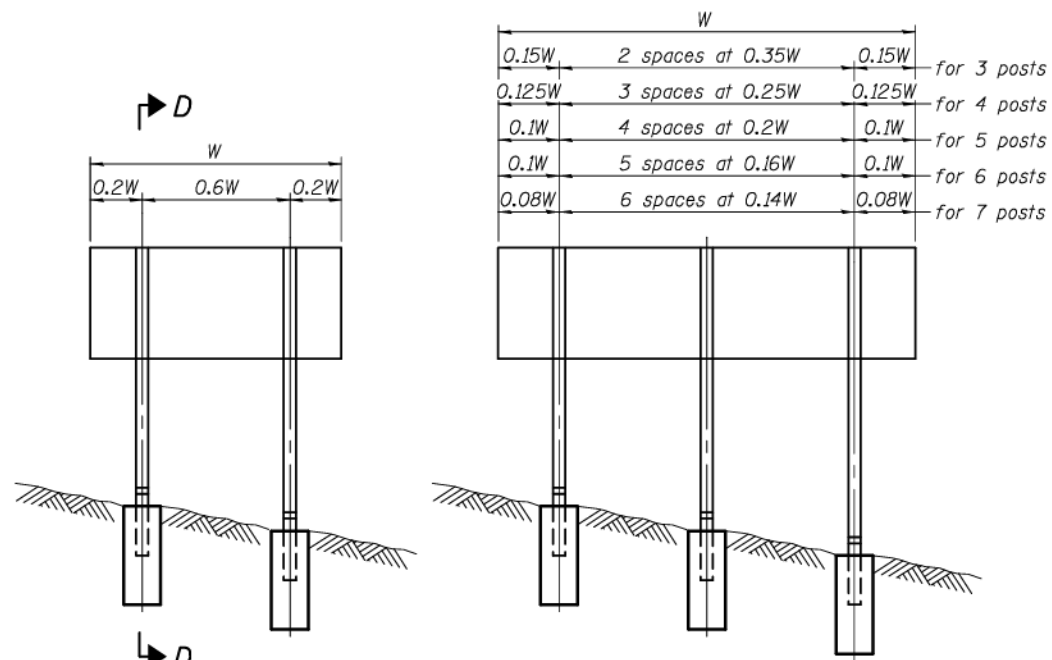
DESIGNED - JDT	REVISED -
DRAWN - BAW	REVISED -
CHECKED - JMG	REVISED -
DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNING DETAILS

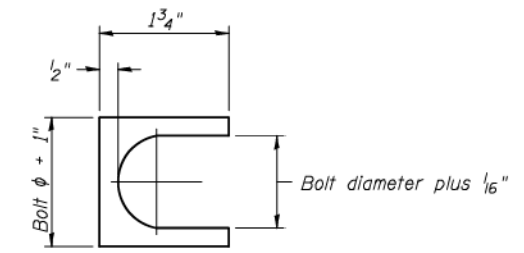
SCALE: NONE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	347
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	



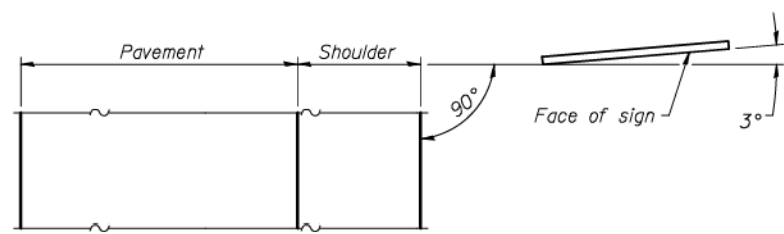
0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

ELEVATION

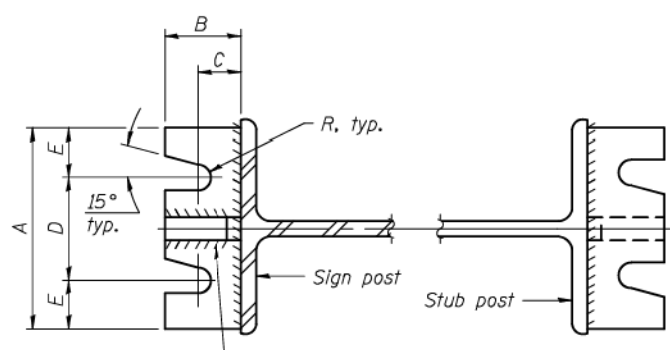


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

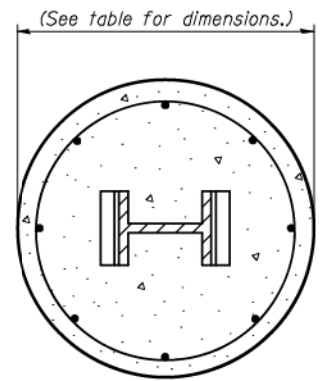


LOCATION SKETCH

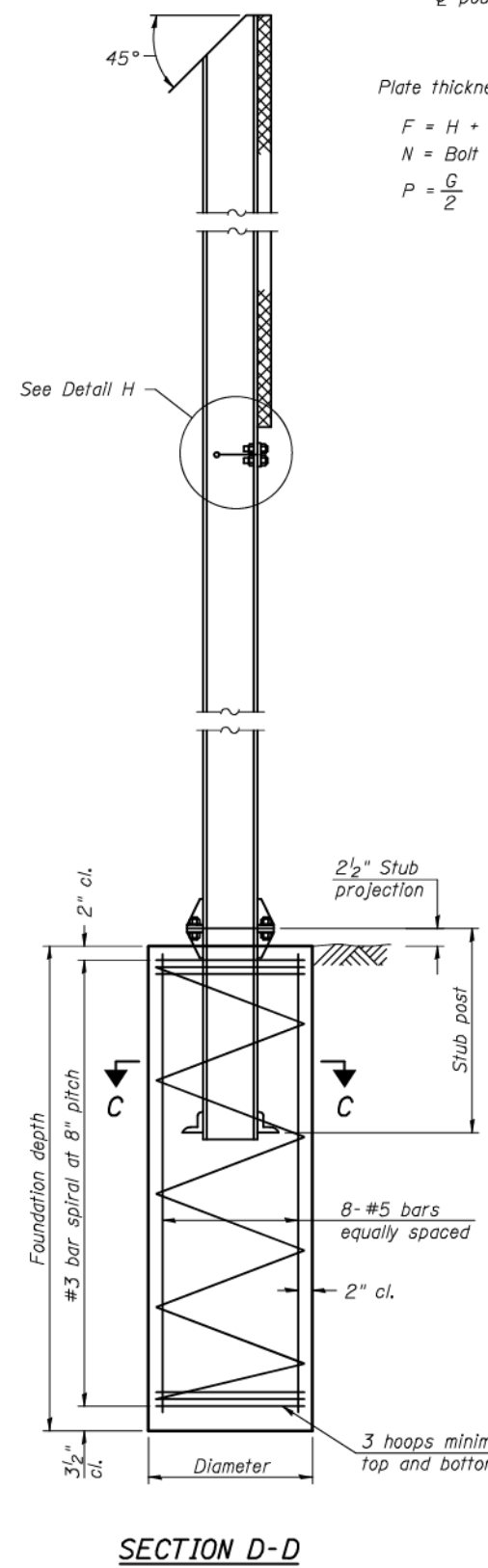


SECTION A-A

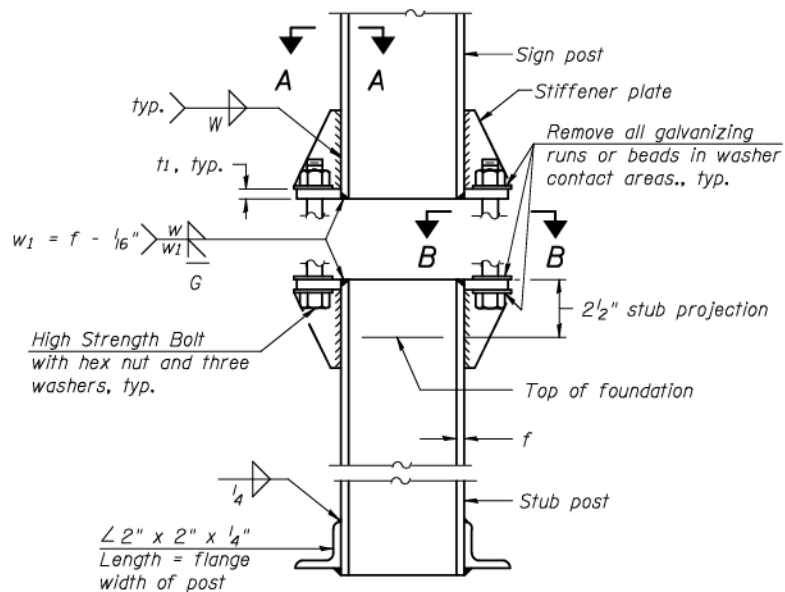
SECTION B-B



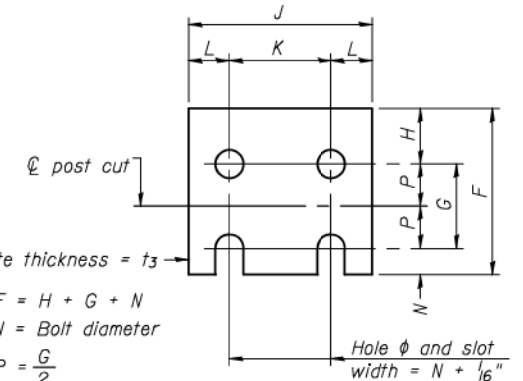
SECTION C-C



SECTION D-D



ELEVATION SIGN POST & STUB POST

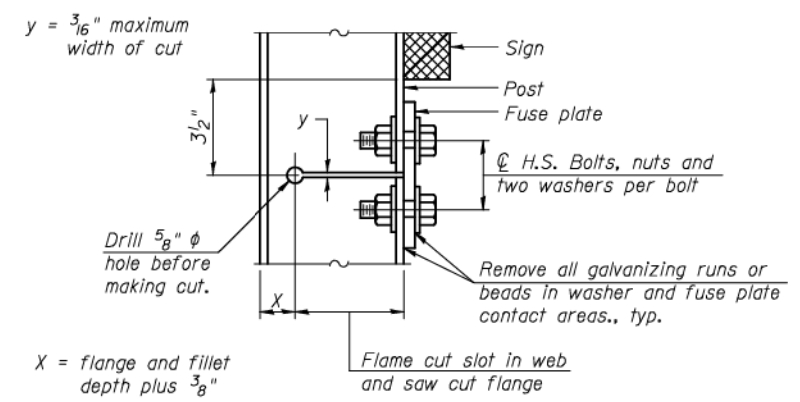


FUSE PLATE DETAIL

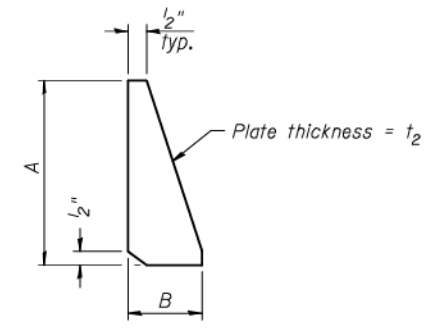
(Install with notches down.)

Plate thickness = t_3
 $F = H + G + N$
 $N = \text{Bolt diameter}$
 $P = \frac{G}{2}$

N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



DETAIL H



STIFFENER PLATE DETAIL

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
 Structural steel - 20,000 p.s.i.
 Reinforcing steel - 20,000 p.s.i.
 Concrete - 1,400 p.s.i.
 Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

6-1-12

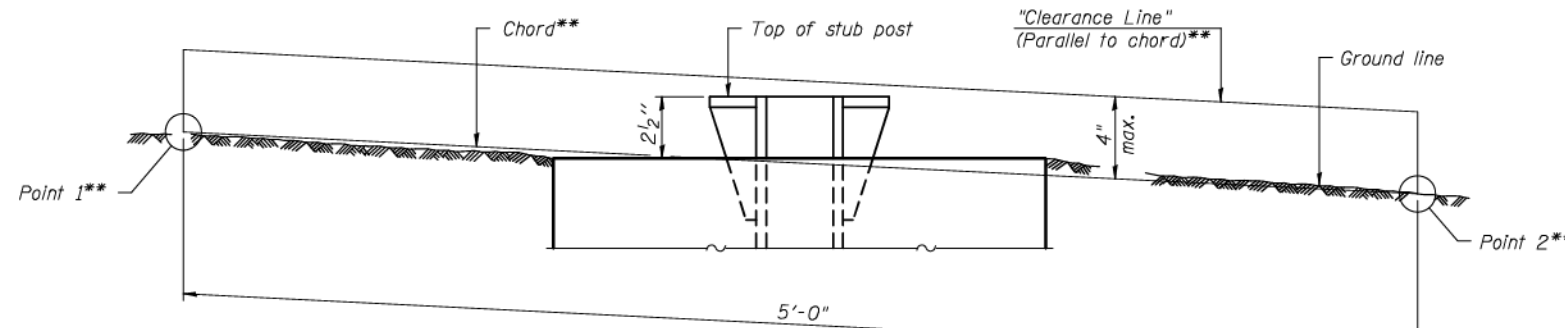
(Sheet 1 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED -							COOK	814	348
		DRAWN -				CONTRACT NO. 60X76					
		CHECKED -				ILLINOIS FED. AID PROJECT					
PLOT SCALE =		PLOT DATE =		SCALE: NONE		SHEET NO. 4 OF 5 SHEETS					

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA								FUSE PLATE DATA					
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t ₁	t ₂	R	W	J	K	L	t ₃	
	Diameter	* Minimum Depth	Concrete cu. yds. (1)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length																lbs. (2)
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3/2"	1 1/4"	3/4"	1/2"	11/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3/4"	6"	2 1/2"	1 3/8"	3/4"	1 3/8"	1"	1/2"	13/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	17/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																				
	Sign Height																				
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION
GROUND LINE & STUB POST**

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- (1) Quantity includes all concrete necessary for one foundation.
- (2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2

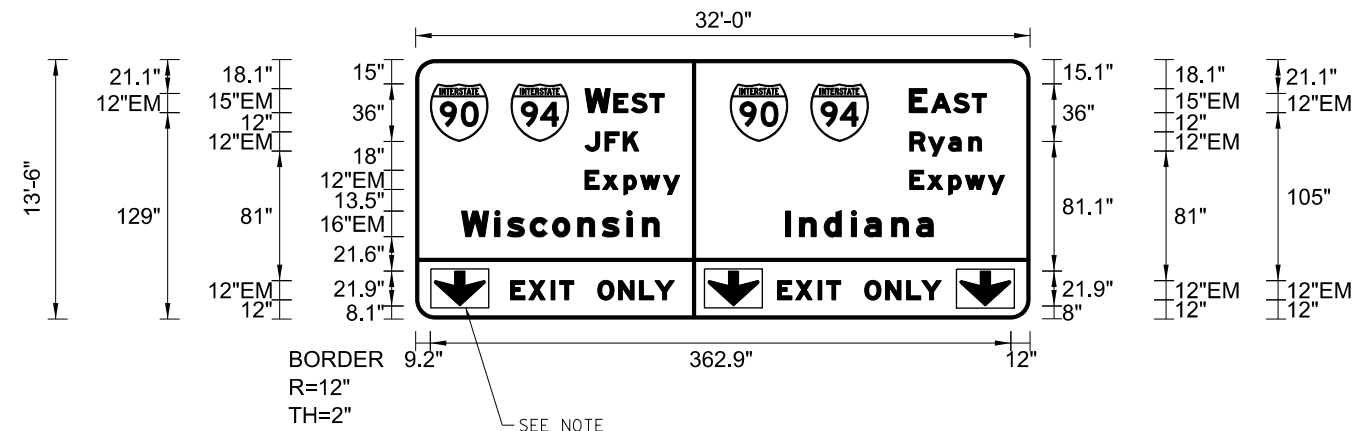
6-1-12

(Sheet 2 of 2)

FILE NAME =	USER NAME =	DESIGNED -	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED					COOK	814	349
PLOT SCALE =		DRAWN -	REVISED			SCALE: NONE	SHEET NO. 5 OF 5 SHEETS	CONTRACT NO. 60X76		
PLOT DATE =		CHECKED -	REVISED			ILLINOIS FED. AID PROJECT				

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
 Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-51-BM
WIDTH x HGHT.	32'-0" x 13'-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
M1_1	0	9.2	111	36	36
M1_1	0	59.6	111	36	36
M1_1	0	196.6	111	36	36
M1_1	0	247	111	36	36
ARDOWN	180	11.7	8.1	31.9	21.9
ARDOWN	180	182.7	8.1	31.9	21.9
ARDOWN	0	340.2	8.1	31.9	21.9

LETTER POSITIONS (X)

										LENGTH	SERIESSIZE
W	E	S	T							EM	2000
105.8	123.9	134.9	146.4							49.5	15,12
E	A	S	T							EM	2000
308.6	322.4	336.3	347.8							48.1	15,12
J	F	K								EM	2000
105.8	118.3	129.7								33.7	12
R	y	a	n							EM	2000
308.8	320.5	333.1	345.8							44.9	12,9
E	x	p	w	y						EM	2000
105.8	116.8	130.2	140.5	154.9						59.3	12,9
E	x	p	w	y						EM	2000
308.8	319.9	333.2	343.5	357.9						59.3	12,9
W	i	s	c	o	n	s	i	n		EM	2000
28.7	49.5	57.4	71.4	85.5	101.4	116.6	132.1	141.7		123.5	16,12
I	n	d	i	a	n	a				EM	2000
231.2	239.9	255.4	272.4	280.5	297.5	313				92.3	16,12
E	X	I	T							EM	2000
59.4	70.6	84.6	90							39.5	12
O	N	L	Y							EM	2000
113.9	126.8	139.9	149.5							47.8	12
E	X	I	T							EM	2000
226.3	237.5	251.5	256.9							39.5	12
O	N	L	Y							EM	2000
280.8	293.7	306.8	316.4							47.8	12

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.

FILE PATH = p:\617479-PMINT-secmon1\local\JAE\CDM_0502_MN\Documents\01_Americas\Transportation\60269538_Circle\Phase_1\2006_CAD\006_Roadway\Sheets\60X76_Contract\018076-SHT-Sign-Bridge-Detail-01.dgn



DI60X76-SHT-Sign-Bridge-Detail-01.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
 SIGN PANEL DETAILS**

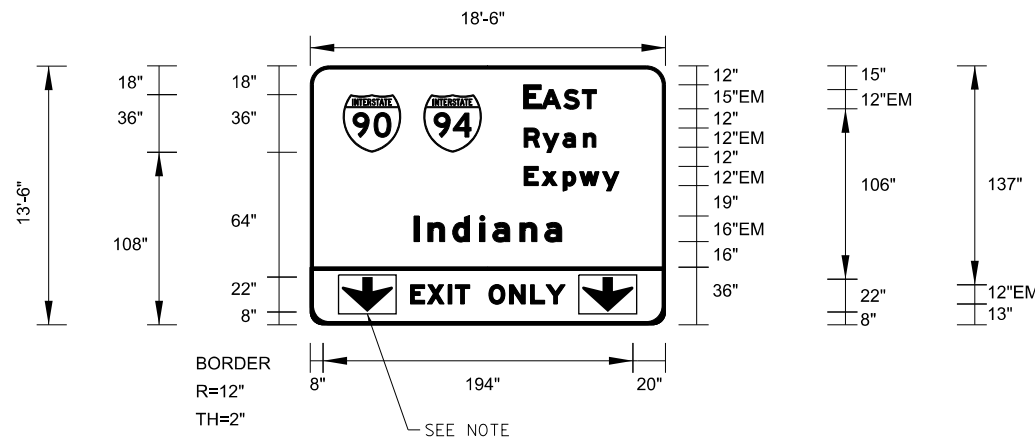
SCALE: NONE SHEET 1 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	350
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\6179-P\INT\secomon\line\local\IACOM_0502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\2006_CAD\006_Roadway\Sheets\60X76_Contract\01876-SHT-Sign-Bridge-Detail_04.dgn

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
 Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-38-BM
WIDTH x HGHT.	18'-6" x 13'-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
MI_1	0	198	178	36	36
MI_1	0	249	178	36	36
ARDOWN	0	207	78	32	22
ARDOWN	0	357	78	32	22

LETTER POSITIONS (X)

										LENGTH	SERIESIZE
E	A	S	T								EM 2000
320.8	331.9	345.8	357.3							45.4	15,12
R	y	a	n								EM 2000
321.1	332.7	345.3	358							44.9	129
E	x	p	w	y							EM 2000
321.1	332.1	345.4	355.7	370.1						59.3	129
I	n	d	i	a	n	a					EM 2000
252.2	260.8	276.4	293.3	301.5	318.4	334				92.3	1612
E	X	I	T		O	N	L	Y			EM 2000
250.1	260.6	273.6	278.1	287	299	312	325.1	334.7		96.7	12

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.



DI60X76-SHT-Sign-Bridge-Detail-04.dgn
 USER NAME = vjjanachione
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - JMG
 DATE - 5/10/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

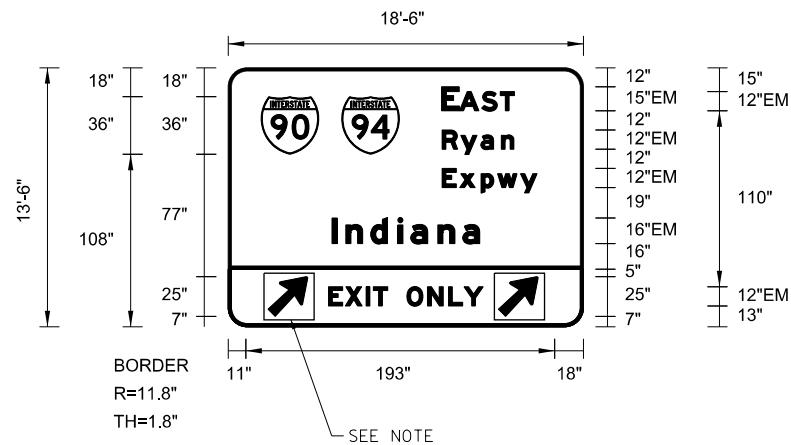
**OVERHEAD SIGN STRUCTURES
 SIGN PANEL DETAILS**

SCALE: NONE SHEET 4 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	353
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\6179-P\INT\secomon1\loc\il\ECOM_0502_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X76_Contract\0160X76-SHT-Sign-Bridge-Detail_05.dgn

SIGN DETAIL
1:100



Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-71-OH
WIDTH x HGHT.	18'-6" x 13'-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
M1_1	0	11	108	36	36
M1_1	0	61	108	36	36
AR_Type A	315	25	7	20	32
AR_Type A	315	169	7	20	32

LETTER POSITIONS (X)

										LENGTH	SERIESSIZE
E	A	S	T								EM 2000
133.4	144.5	158.5	170							45.4	15,12
R	y	a	n								EM 2000
133.7	145.4	158	170.7							44.9	129
E	x	p	w	y							EM 2000
133.7	144.8	158.1	168.4	182.8						59.3	129
I	n	d	i	a	n	a					EM 2000
64.8	73.5	89	106	114.1	131.1	146.6				92.3	1612
E	X	I	T		O	N	L	Y			EM 2000
62.6	73.2	86.1	90.7	99.6	111.6	124.5	137.6	147.2		96.7	12

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.



DI60X76-SHT-Sign-Bridge-Detail-05.dgn
USER NAME = vjjanachione
PLOT SCALE = 100.0000' / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

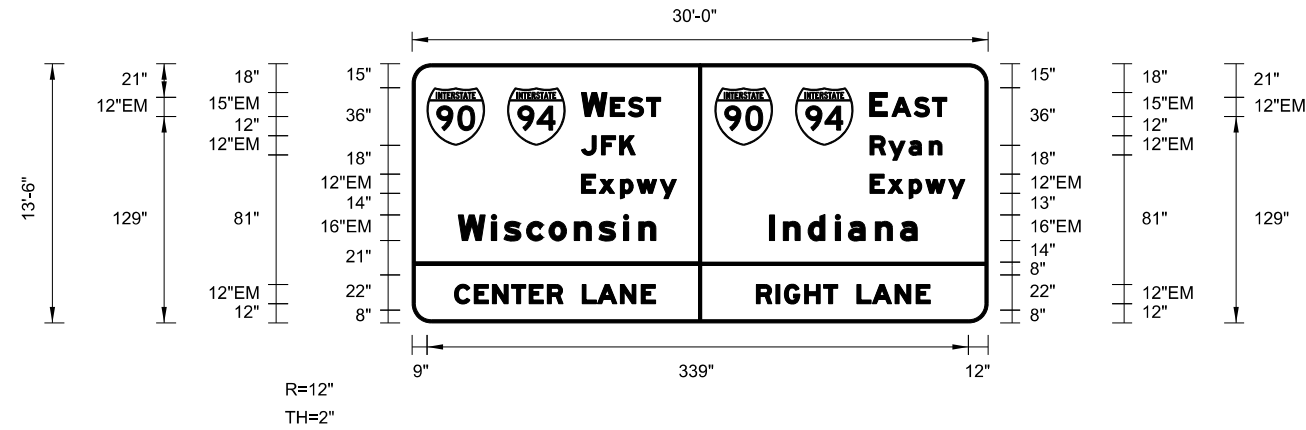
**OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS**

SCALE: NONE SHEET 5 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	354
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
 Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-09-T, MOT-13-T
WIDTH x HGHT.	30'-0" x 13'-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
M1_1	0	9.2	111	36	36
M1_1	0	59.6	111	36	36
M1_1	0	189.2	111	36	36
M1_1	0	239.6	111	36	36

LETTER POSITIONS (X)

LENGTH SERIESIZE

W	E	S	T											EM 2000				
105.8	123.9	134.9	146.4											49.5	15,12			
E	A	S	T											EM 2000				
286	299.8	313.7	325.2											48.1	15,12			
J	F	K											EM 2000					
105.8	118.3	129.7											33.7	12				
R	y	a	n											EM 2000				
286.3	297.9	310.5	323.2											44.9	129			
E	x	p	w	y											EM 2000			
105.8	116.9	130.2	140.5	154.9											59.3	129		
E	x	p	w	y											EM 2000			
286.3	297.3	310.6	320.9	335.3											59.3	129		
W	i	s	c	o	n	s	i	n								EM 2000		
28.7	49.5	57.4	71.5	85.5	101.4	116.6	132.1	141.7								123.5	1612	
I	n	d	i	a	n	a											EM 2000	
223.3	232	247.5	264.5	272.6	289.6	305.1											92.3	1612
C	E	N	T	E	R											EM 2000		
26.4	38.8	50.2	62.1	73.1	84.5											67.8	12	
L	A	N	E											EM 2000				
106.2	115.8	130.1	143.2											45.8	12			
R	I	G	H	T											EM 2000			
215.1	227.4	232.7	245.3	257.1											50.9	12		
L	A	N	E											EM 2000				
278	287.6	301.9	315											45.8	12			

FILE PATH = p:\6179-P\MINT\secomon\line\local\IAC\CDM_0502_MN\Documents\01_Americas\Transportation\60269538_Circle\Phase_11\006_CAD\006_Roadway\Sheets\60X76_Contract\018776-SHT-Sign-Bridge-Detail_06.dgn



D:\60X76-SHT-Sign-Bridge-Detail_06.dgn	DESIGNED - BJJ	REVISED -
USER NAME = vjjanachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

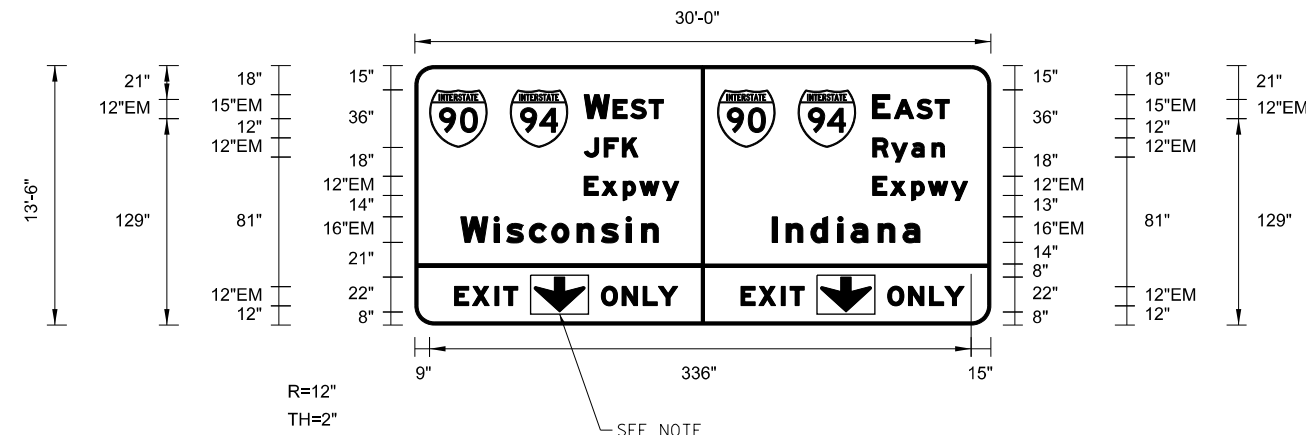
OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS

SCALE: NONE SHEET 6 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	355
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-07-T
WIDTH x HGHT.	30'-0" x 13'-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
M1_1	0	9.2	111	36	36
M1_1	0	59.6	111	36	36
M1_1	0	189.2	111	36	36
M1_1	0	239.6	111	36	36
ARDOWN	0	74.6	8.1	31.9	21.9
ARDOWN	0	253.6	8.1	31.9	21.9

LETTER POSITIONS (X)

										LENGTH	SERIESSIZE
W	E	S	T							EM	2000
105.8	123.9	134.9	146.5							49.5	15,12
E	A	S	T							EM	2000
286	299.8	313.7	325.2							48.1	15,12
J	F	K								EM	2000
105.8	118.3	129.7								33.7	12
R	y	a	n							EM	2000
286.3	297.9	310.5	323.2							44.9	12,9
E	x	p	w	y						EM	2000
105.8	116.9	130.2	140.5	154.9						59.3	12,9
E	x	p	w	y						EM	2000
286.3	297.3	310.6	320.9	335.3						59.3	12,9
W	i	s	c	o	n	s	i	n		EM	2000
28.8	49.6	57.4	71.5	85.6	101.4	116.6	132.1	141.7		123.5	16,12
I	n	d	i	a	n	a				EM	2000
223.4	232	247.5	264.5	272.6	289.6	305.1				92.3	16,12
E	X	I	T							EM	2000
24.9	36.1	50.1	55.5							39.5	12
O	N	L	Y							EM	2000
116.6	129.6	142.7	152.3							47.8	12
E	X	I	T							EM	2000
203.9	215.1	229.1	234.5							39.5	12
O	N	L	Y							EM	2000
295.6	308.6	321.7	331.3							47.8	12

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.

FILE PATH = p:\61779-PMINT\secomon1\local\IACOM_0502_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\2006_CAD\006_Roadway\Sheets\60X76_Contract\0160X76-SHT-Sign-Bridge-Detail-07.dgn



D160X76-SHT-Sign-Bridge-Detail-07.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

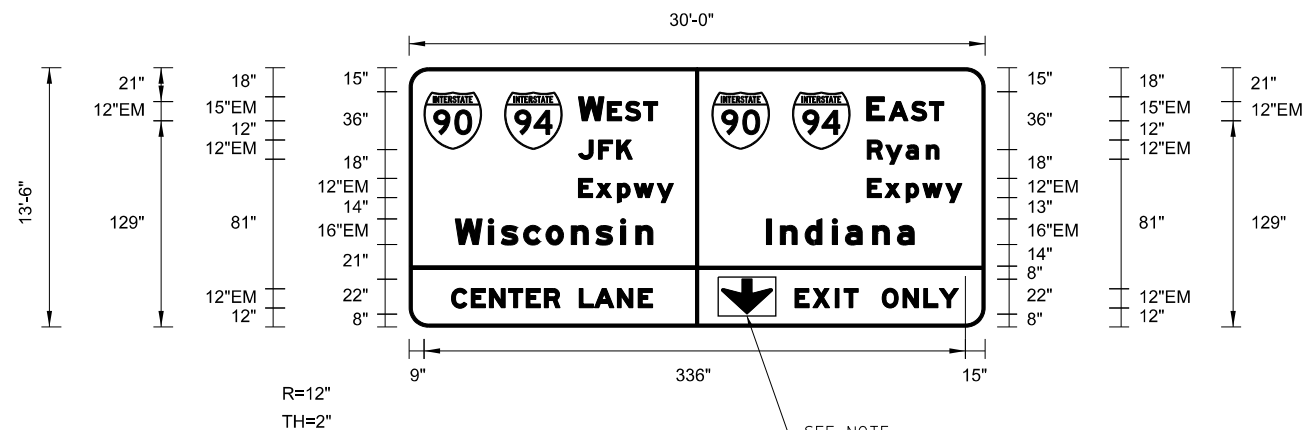
**OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS**

SCALE: NONE SHEET 7 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	356
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:100



Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-17-T
WIDTH x HGHT.	30'-0" x 13'-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
M1_1	0	9.2	111	36	36
M1_1	0	59.6	111	36	36
M1_1	0	189.2	111	36	36
M1_1	0	239.6	111	36	36
ARDOWN	0	195.2	8.2	31.9	21.9

LETTER POSITIONS (X)

LETTER POSITIONS (X)												LENGTH	SERIESSIZE	
W	E	S	T											EM 2000
105.8	123.9	134.9	146.5										49.5	15,12
E	A	S	T											EM 2000
286	299.8	313.7	325.2										48.1	15,12
J	F	K												EM 2000
105.8	118.3	129.7											33.7	12
R	y	a	n											EM 2000
286.3	297.9	310.5	323.2										44.9	12,9
E	x	p	w	y										EM 2000
105.8	116.9	130.2	140.5	154.9									59.3	12,9
E	x	p	w	y										EM 2000
286.3	297.3	310.6	320.9	335.3									59.3	12,9
W	i	s	c	o	n	s	i	n						EM 2000
28.8	49.6	57.4	71.5	85.6	101.4	116.6	132.1	141.7					123.5	16,12
I	n	d	i	a	n	a								EM 2000
223.4	232	247.5	264.5	272.6	289.6	305.1							92.3	16,12
C	E	N	T	E	R									EM 2000
26.5	38.8	50.2	62.1	73.1	84.5								67.8	12
L	A	N	E											EM 2000
106.3	115.9	130.1	143.2										45.8	12
E	X	I	T											EM 2000
241.1	252.4	266.3	271.8										39.5	12
O	N	L	Y											EM 2000
295.6	308.6	321.7	331.3										47.8	12

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.



D:\60X76-SHT-Sign-Bridge-Detail_08.dgn	DESIGNED - BJJ	REVISED -
USER NAME = vjjanachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

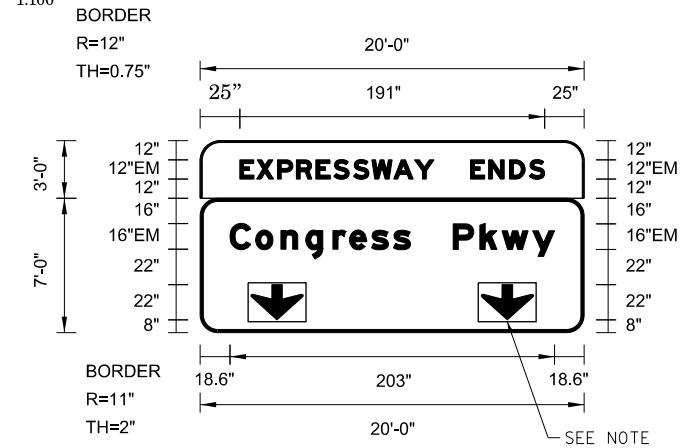
OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS

SCALE: NONE SHEET 8 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	357
				CONTRACT NO. 60X76
ILLINOIS FED. AID PROJECT				

SIGN DETAIL

1:100



Panel Style: Street Name 20-0in_Overhead Mod.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

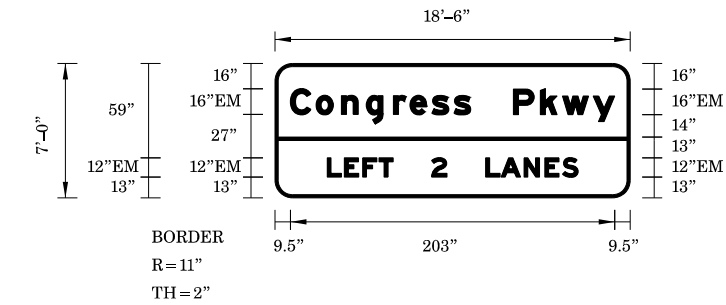
SIGN NUMBER	EB-69-OH
WIDTH x HGHT.	20'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	11"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: Green
LEGENDBORDER	TYPE: ZZ COLOR: White

SYMBOL	ROT	X	Y	WID	HT
ARROW	0	140	72	33	22
ARROW	0	284	72	33	22

LETTER POSITIONS (X)											LENGTH	SERIESSIZE		
E	X	P	R	E	S	S	W	A	Y				EM 2000	
132.7	143.2	156.2	168.1	180.3	191.3	203.7	215.2	228.9	242				121.4	12
E	N	D	S										EM 2000	
276.8	288.2	301.3	313.6										46.4	12
C	o	n	g	r	e	s	s						EM 2000	
126.6	142.6	158.4	173.9	190.9	201.3	215	228.8						112.8	1612
P	k	w	y										EM 2000	
266	282.8	296.6	315.8										63.4	1612

SIGN DETAIL

1:100



Panel Style: Street Name 12-9in_Overhead Mod.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

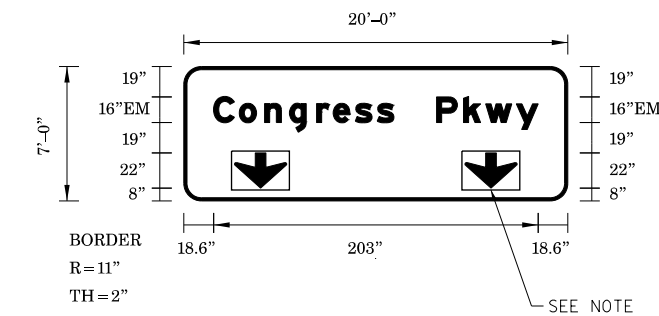
SIGN NUMBER	MOT-08, 12, 16-T
WIDTH x HGHT.	18'-6" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	11"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: Green
LEGENDBORDER	TYPE: ZZ COLOR: White

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)											LENGTH	SERIESSIZE		
C	o	n	g	r	e	s	s						EM 2000	
163.6	179.6	195.4	210.9	227.9	238.3	252	265.8						112.8	1612
P	k	w	y										EM 2000	
303	319.8	333.6	352.8										63.4	1612
L	E	F	T										EM 2000	
186.6	197.4	208.8	219										41.3	12
2													EM 2000	
251.8													9.7	12
L	A	N	E	S									EM 2000	
285.7	295.3	309.6	322.6	333.7									57.7	12

SIGN DETAIL

1:100



Panel Style: Street Name 20-0in_Overhead Mod.ssi

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	EB-36,50-BM, MOT-05,18-T
WIDTH x HGHT.	20'-0" x 7'-0"
BORDER WIDTH	2"
CORNER RADIUS	11"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: Green
LEGENDBORDER	TYPE: ZZ COLOR: White

SYMBOL	ROT	X	Y	WID	HT
ARROW	0	32	8	33	22
ARROW	0	176	8	33	22

LETTER POSITIONS (X)											LENGTH	SERIESSIZE		
C	o	n	g	r	e	s	s						EM 2000	
18.6	34.6	50.4	66	82.9	93.3	107.1	120.8						112.8	1612
P	k	w	y										EM 2000	
158.1	174.9	188.6	207.8										63.4	1612

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.

FILE PATH = p:\6179-P\MINT\acconline\local\IACOM\DS02_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X76_Contract\018776-SHT-Sign-Bridge-Detail-09.dgn



DI60X76-SHT-Sign-Bridge-Detail-09.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

DESIGNED - BJJ	REVISED -
DRAWN - BJJ	REVISED -
CHECKED - JMG	REVISED -
DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

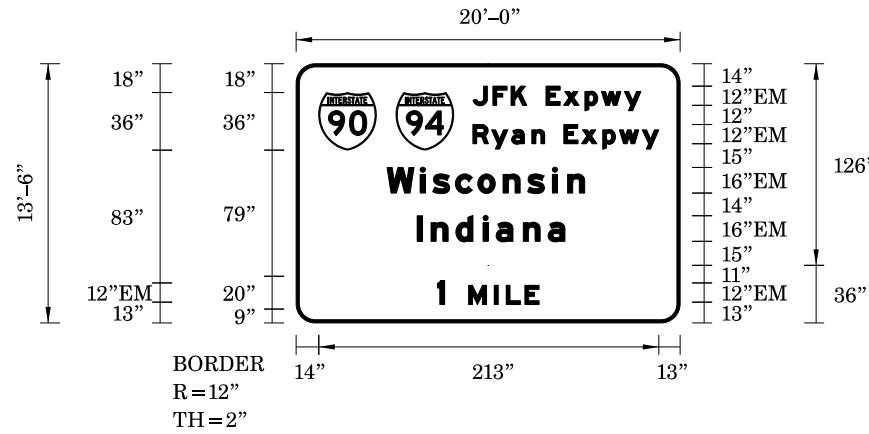
**OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS**

SCALE: NONE SHEET 9 OF 14 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	358
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SIGN DETAIL

1:100



Panel Style: `guide_exp_overhead.ssi`
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-04-T
WIDTH x HGHT.	20'-0" x 13'-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
M1_1	0	194.1	178	36	36
M1_1	0	242.4	178	36	36

LETTER POSITIONS (X)

LENGTH SERIESIZE

Letter	X	Y	Length	Seriesize
J	290.4	302.9	105	EM 2000
F	302.9	302.9	105	EM 2000
K	314.3	302.9	105	EM 2000
E	324.1	302.9	105	EM 2000
x	336.1	302.9	105	EM 2000
p	347.2	302.9	105	EM 2000
w	360.5	302.9	105	EM 2000
y	370.8	302.9	105	EM 2000
R	290.4	302.1	116.2	EM 2000
y	302.1	302.1	116.2	EM 2000
a	314.7	302.1	116.2	EM 2000
n	327.4	302.1	116.2	EM 2000
E	335.3	302.1	116.2	EM 2000
x	347.3	302.1	116.2	EM 2000
p	358.3	302.1	116.2	EM 2000
w	371.7	302.1	116.2	EM 2000
y	382	302.1	116.2	EM 2000
W	236.7	257.5	123.5	EM 2000
i	257.5	257.5	123.5	EM 2000
s	265.4	257.5	123.5	EM 2000
c	279.5	257.5	123.5	EM 2000
o	293.5	257.5	123.5	EM 2000
n	309.4	257.5	123.5	EM 2000
s	324.6	257.5	123.5	EM 2000
i	340.1	257.5	123.5	EM 2000
n	349.7	257.5	123.5	EM 2000
I	255.7	264.4	92.3	EM 2000
n	264.4	264.4	92.3	EM 2000
d	279.9	264.4	92.3	EM 2000
i	296.8	264.4	92.3	EM 2000
a	305	264.4	92.3	EM 2000
n	322	264.4	92.3	EM 2000
a	337.5	264.4	92.3	EM 2000
1	268.3	287.8	63.6	EM 2000
M	287.8	287.8	63.6	EM 2000
I	303.9	287.8	63.6	EM 2000
L	311.3	287.8	63.6	EM 2000
E	323	287.8	63.6	EM 2000

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D160X76-SHT-Sign-Bridge-Detail-10.dgn
USER NAME = vljanachione
PLOT SCALE = 100.0000' / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS**

SCALE: NONE SHEET 10 OF 14 SHEETS STA. TO STA.

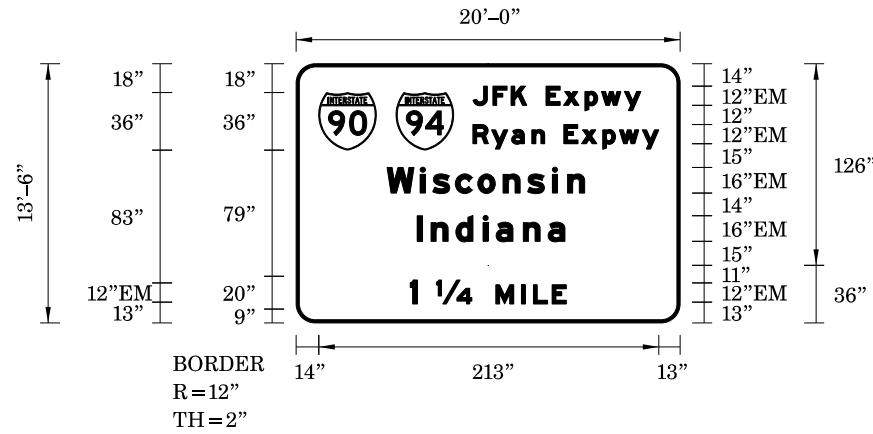
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	359
CONTRACT NO. 60X76				

ILLINOIS FED. AID PROJECT

FILE PATH = ...

SIGN DETAIL

1:100



Panel Style: `guide_exp_overhead.ssi`
 Dimensions are in `inches.tenths`

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-03-T
WIDTH x HGHT.	20'-0" x 13'-6"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ
	COLOR: Green
LEGEND/BORDER	TYPE: Z
	COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	194.1	178	36	36
M1_1	0	242.4	178	36	36

LETTER POSITIONS (X)

LENGTH SERIESIZE

J	F	K	E	x	p	w	y	LENGTH		SERIESIZE
290.4	302.9	314.3	324.1	336.1	347.2	360.5	370.8	385.2	105	EM 2000
R	y	a	n	E	x	p	w	y	116.2	EM 2000
290.4	302.1	314.7	327.4	335.3	347.3	358.3	371.7	382	396.4	129
W	i	s	c	o	n	s	i	n	123.5	EM 2000
236.7	257.5	265.4	279.5	293.5	309.4	324.6	340.1	349.7	1612	EM 2000
I	n	d	i	a	n	a			92.3	EM 2000
255.7	264.4	279.9	296.8	305	322	337.5			1612	EM 2000
1	14	M	I	L	E				97.6	EM 2000
251.3	267.8	304.7	320.9	328.3	340				15,12	



DI60X76-SHT-Sign-Bridge-Detail-11.dgn
 USER NAME = vljanachione
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - JMG
 DATE - 5/10/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

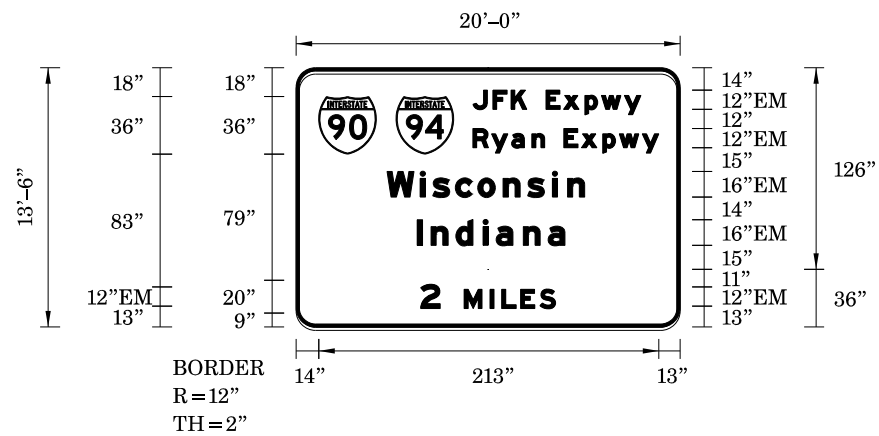
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS
 SCALE: NONE SHEET 11 OF 14 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	360
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

FILE PATH = p:\6179-PMINT\secomon\line\local\IAC\CDM_DS02_NA\Documents\01_Americas\Transportation\6026-9538_Circle\Phase_11\2016_CAD\006_Roadway\Sheets\60X76_Contract\0160X76-SHT-Sign-Bridge-Detail-12.dgn

SIGN DETAIL
1:100



Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	MOT-02-T
WIDTH x HGHT.	20'-0" x 13'-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
M1_1	0	194.1	178	36	36
M1_1	0	242.4	178	36	36

LETTER POSITIONS (X)

LETTER POSITIONS (X)																LENGTH	SERIESSIZE
J	F	K		E	x	p	w	y								EM 2000	
290.4	302.9	314.3	324.2	336.2	347.2	360.5	370.8	385.2								105	129
R	y	a	n		E	x	p	w	y								EM 2000
290.4	302.1	314.7	327.4	335.3	347.3	358.4	371.7	382	396.4							116.2	129
W	i	s	c	o	n	s	i	n									EM 2000
236.8	257.6	265.4	279.5	293.6	309.4	324.6	340.1	349.7								123.5	1612
I	n	d	i	a	n	a											EM 2000
255.7	264.4	279.9	296.8	305	322	337.5										92.3	1612
2	M	I	L	E	S												EM 2000
257.9	285.1	301.2	308.6	320.3	332.4											84.2	15,12



D:\60X76-SHT-Sign-Bridge-Detail-12.dgn
USER NAME = v1janachione
PLOT SCALE = 100.0000' / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

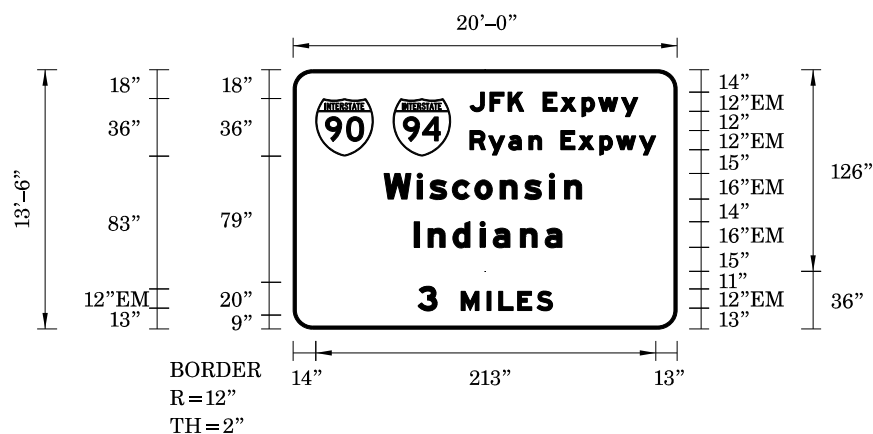
**OVERHEAD SIGN STRUCTURES
SIGN PANEL DETAILS**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	361
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SCALE: NONE SHEET 12 OF 14 SHEETS STA. TO STA.

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SIGN DETAIL 1:100



SIGN NUMBER	MOT-01-T
WIDTH x HGHT.	20'-0" x 13'-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
M1_1	0	14.1	108	36	36
M1_1	0	62.4	108	36	36

Panel Style: guide_exp_overhead.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIESSIZE		
J	F	K		E	x	p	w	y						EM	2000	
110.4	122.9	134.3	144.2	156.2	167.2	180.5	190.8	205.2						105	129	
R	y	a	n		E	x	p	w	y						EM	2000
110.4	122.1	134.7	147.4	155.3	167.3	178.4	191.7	202	216.4					116.2	129	
W	i	s	c	o	n	s	i	n							EM	2000
56.8	77.6	85.4	99.5	113.6	129.4	144.6	160.1	169.7						123.5	1612	
I	n	d	i	a	n	a									EM	2000
75.7	84.4	99.9	116.9	125	142	157.5								92.3	1612	
3	M	I	L	E	S										EM	2000
77.9	105.1	121.2	128.6	140.3	152.4									84.2	15,12	



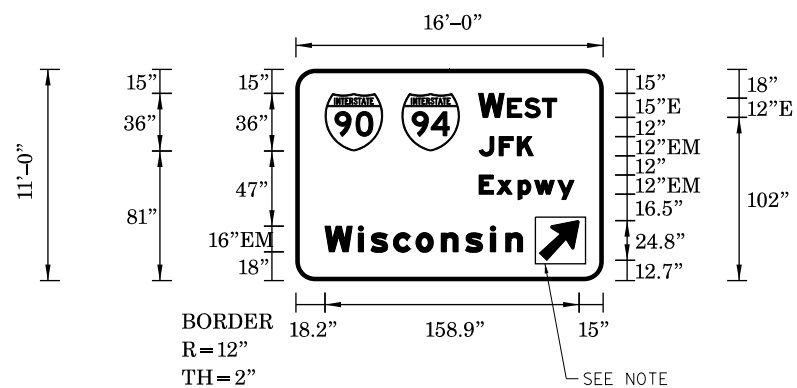
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USER NAME = vjjanachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES SIGN PANEL DETAILS		
SCALE: NONE	SHEET 13 OF 14 SHEETS	STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 362
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X76	

SIGN DETAIL
1:100



SIGN NUMBER	MOT-21-T
WIDTH x HIGHT.	16'-0" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: ZZ COLOR: Green
LEGENDBORDER	TYPE: ZZ COLOR: White

SYMBOL	ROT	X	Y	WID	HT
M1_1	0	18.2	81	36	36
M1_1	0	66.2	81	36	36
AR_Type A	315	152.2	12.7	20	31.5

Panel Style: `guide_exp_overhead.ssi`
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

LETTER POSITIONS (X)													LENGTH	SERIESSIZE					
W	E	S	T														E 2000		
114.2	132.2	142.9	154														48.8	15,12	
J	F	K																EM 2000	
114.5	127	138.4															33.7	12	
E	x	p	w	y														EM 2000	
114.5	125.6	138.9	149.2	163.6													59.3	12.9	
W	i	s	c	o	n	s	i	n										EM 2000	
18.2	39	46.8	60.9	75	90.8	106	121.6	131.2									123.5	1612	

NOTE: ALL ARROWS (DOWN OR 45°) USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.

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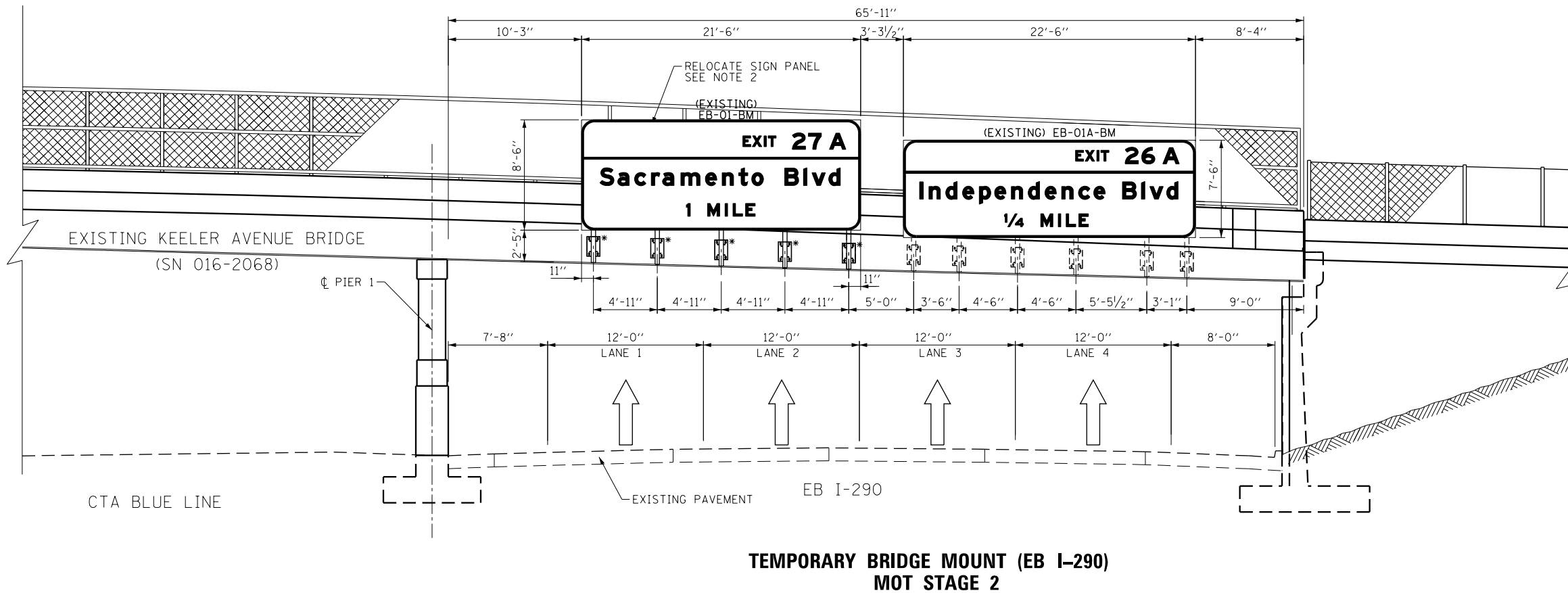


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USER NAME = v\jjanachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES SIGN PANEL DETAILS		
SCALE: NONE	SHEET 14 OF 14 SHEETS	STA. TO STA.

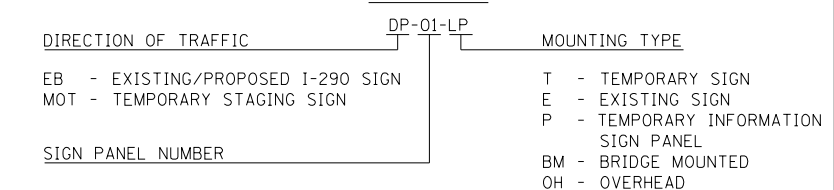
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	363
CONTRACT NO. 60X76				ILLINOIS FED. AID PROJECT



- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. RELOCATE EXISTING OVERHEAD SIGN EB-01-BM SACRAMENTO BLVD FROM PULASKI ROAD BRIDGE AT END OF STAGE 1B AND RELOCATE BACK TO PULASKI BRIDGE AT BEGINNING OF STAGE 3.
 - *3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED. SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBER 1B0161290R025.5B.

FILE PATH = p:\61779-P\MINT\secomon\line\local\IACOM\DS02_NA\Documents\01_Americas\Transportation\60269938_Circle\Phase_1\000_CAD\006_Roadway\Sheets\60X76_Contract\0160X76-SHT-Sign-0H-00.dgn

SIGN NUMBERING CODE EXAMPLE



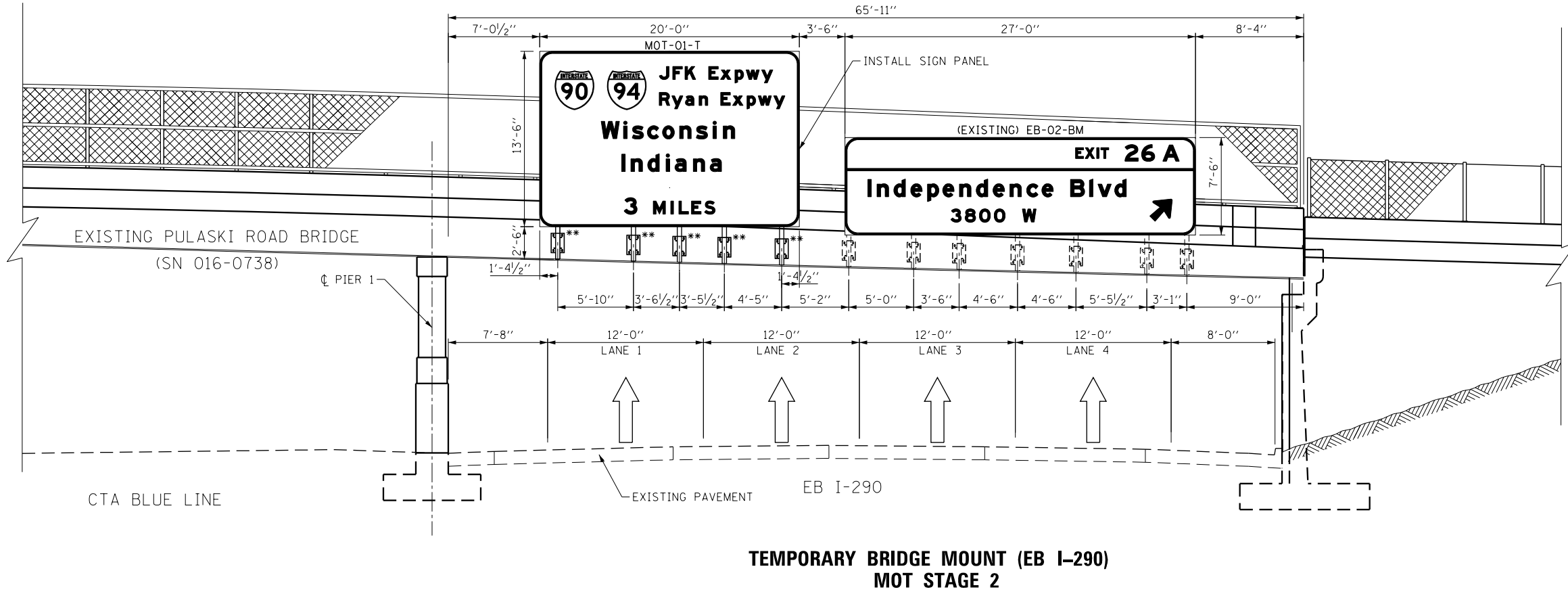
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USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 10.0000 / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

OVERHEAD SIGN STRUCTURES SIGN PANEL PLACEMENT	
SCALE: 1" = 5'	SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	364
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

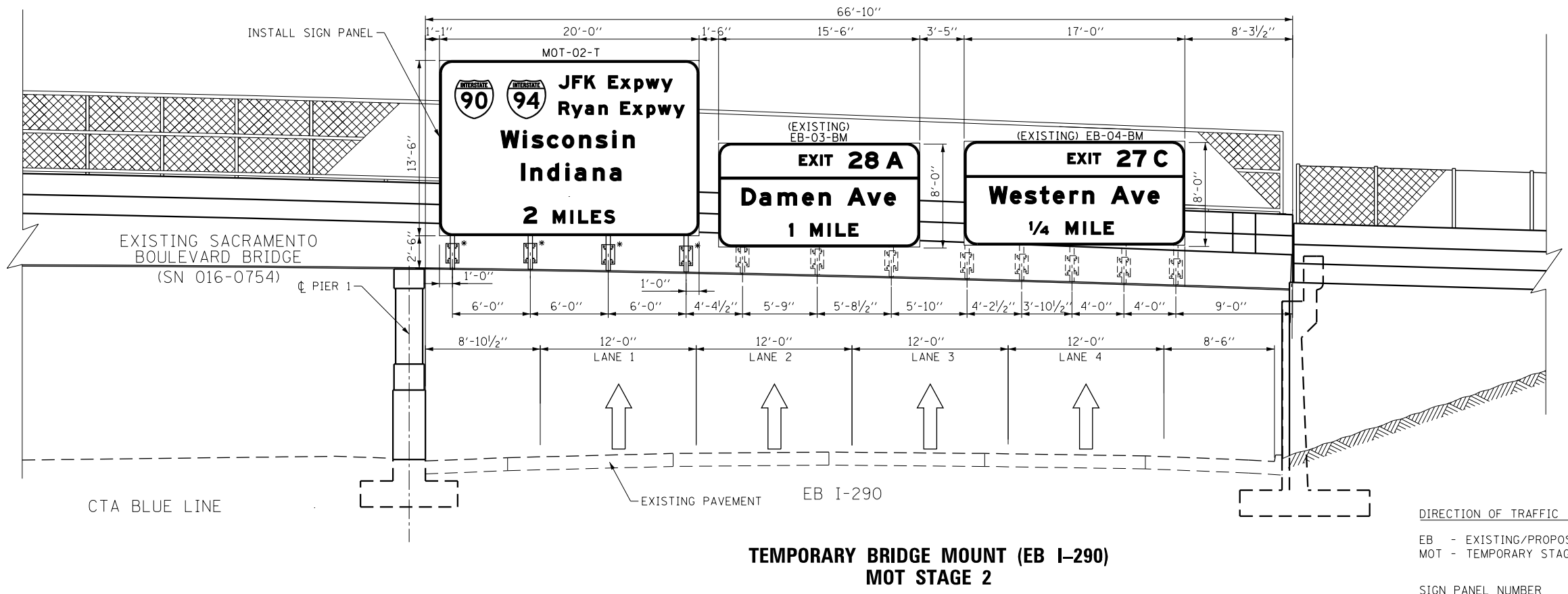
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- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 - **3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE EXISTING SIGN SUPPORT AND BRIDGE MOUNTED SIGN SUPPORT.
 4. RELOCATE EXISTING OVERHEAD SIGN EB-01-BM SACRAMENTO BLVD TO KEELER AVE BRIDGE AT END OF STAGE 1B AND RELOCATE BACK TO PULASKI BRIDGE AT BEGINNING OF STAGE 3.



**TEMPORARY BRIDGE MOUNT (EB I-290)
MOT STAGE 2**



- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 - **3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED. SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBER 1B0161290R027.0C.

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - EXISTING/PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
SIGN PANEL NUMBER		BM - BRIDGE MOUNTED
		OH - OVERHEAD

**TEMPORARY BRIDGE MOUNT (EB I-290)
MOT STAGE 2**



D:\60X76-SHT-Sign-OH-01.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

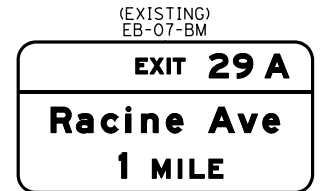
**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 2 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	365
			CONTRACT NO. 60X76	
ILLINOIS FED. AID PROJECT				

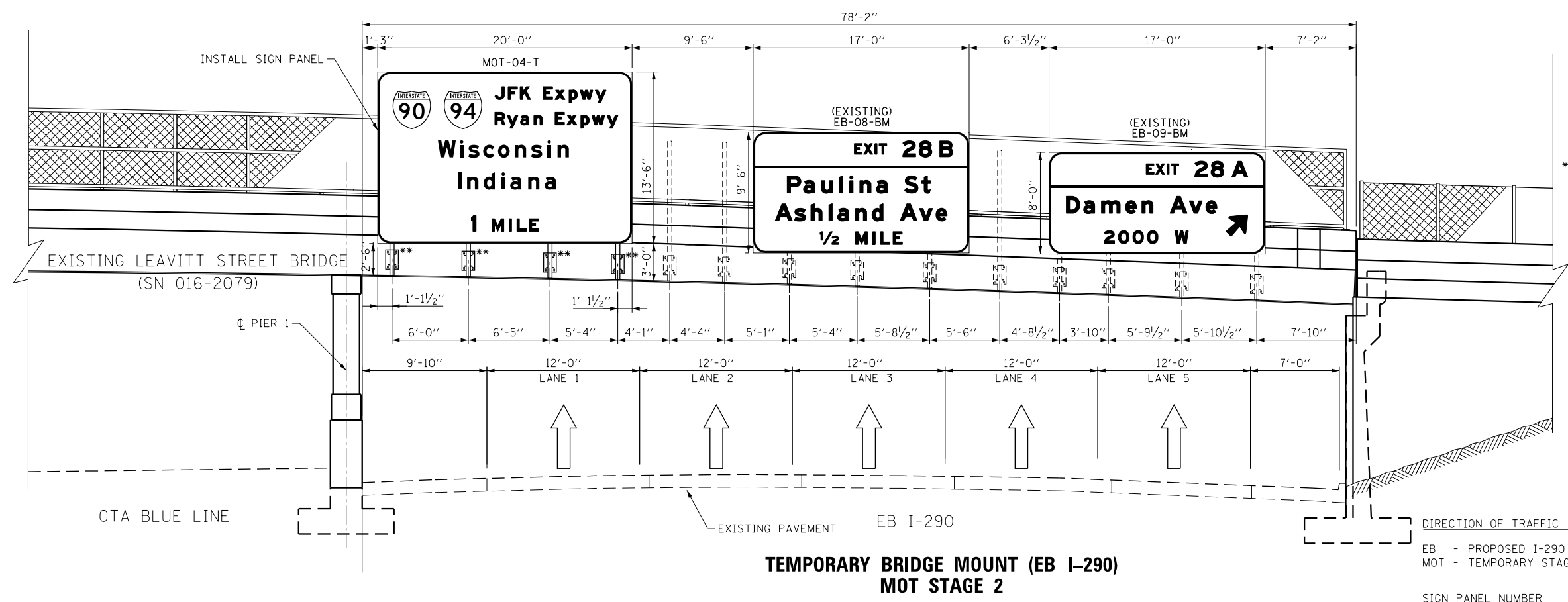
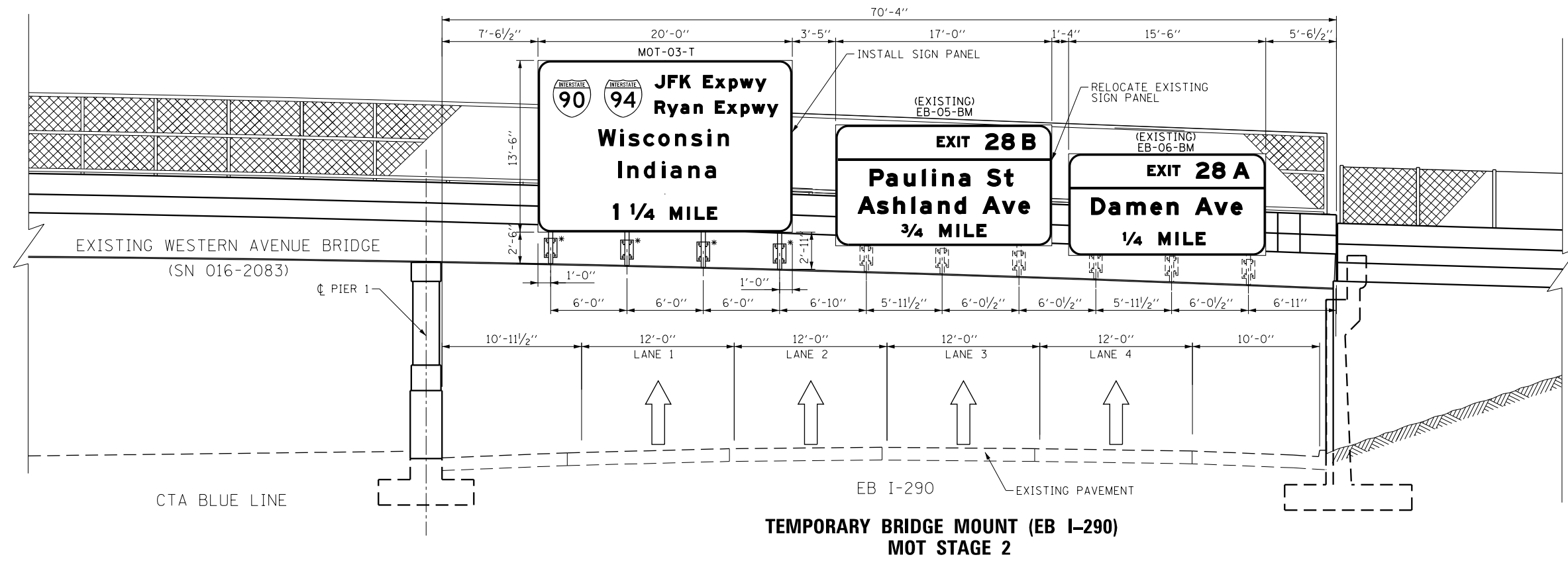
- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED AND OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED. SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBER 1B0161290R027.8C.

- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE EXISTING SIGN SUPPORT AND BRIDGE MOUNTED SIGN SUPPORT.
 4. REMOVE EXISTING OVERHEAD SIGN EB-07-BM FOR RACINE AVE AT END OF STAGE 1B AND REERECT AT BEGINNING OF STAGE 3.



SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE	
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN	
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN	
		P - TEMPORARY INFORMATION SIGN PANEL	
		BM - BRIDGE MOUNTED	
		OH - OVERHEAD	



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D160X76-SHT-Sign-OH-02.dgn
 USER NAME = v1janachione
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - JMG
 DATE - 5/10/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

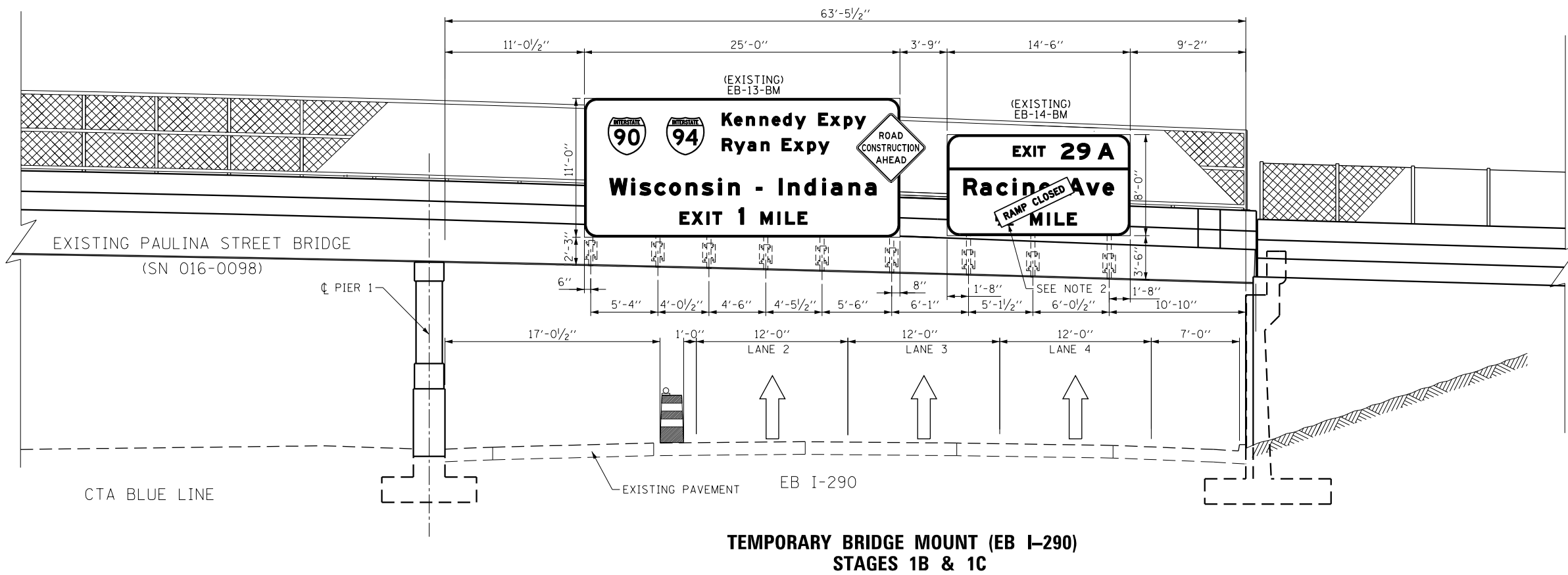
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 SIGN PANEL PLACEMENT

SCALE: 1" = 5' SHEET 3 OF 13 SHEETS STA. TO STA.

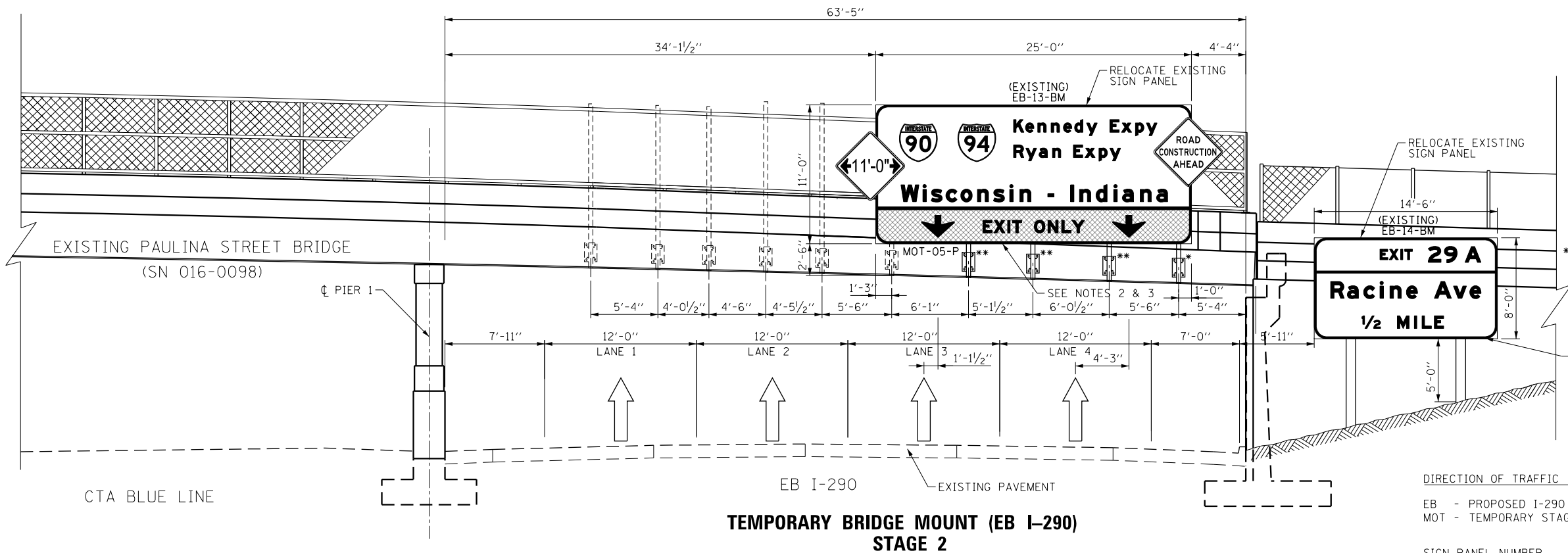
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	366
			CONTRACT NO. 60X76	
ILLINOIS FED. AID PROJECT				

FILE PATH = p:\617479-PMINT\ascomon\line\local\IACOM\DS02_MN\Documents\01_Americas\Transportation\60269938_Circle\Phase_11\000_CAD\006_Roadway\Sheets\60X76_Contract\016876-SHT-Sign-OH-03.dgn



NOTES:

1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
2. INSTALL BLACK ON ORANGE "RAMP CLOSED" PANEL ON DIAGONAL ACROSS EXISTING SIGN. SEE DISTRICT DETAIL TC-08 FOR PANEL DETAILS.



NOTES:

1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
2. THE CONTRACTOR SHALL COVER THE EXISTING BOTTOM PANEL WITH MOT-05-P AS SHOWN. TO BE PAID FOR AS TEMPORARY INFORMATION SIGNING.
3. ALL ARROWS (DOWN OR 45° USED ON OVERHEAD SIGNS SHALL BE DEMOUNTABLE AND INCLUDED IN THE COST OF THE SIGN PANEL.
- *4. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED. SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBER 1B0161290R028.6C.
- **5. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE EXISTING SIGN SUPPORT AND BRIDGE MOUNTED SIGN SUPPORT.

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE	T - TEMPORARY SIGN
EB - PROPOSED I-290 SIGN		E - EXISTING SIGN	P - TEMPORARY INFORMATION SIGN PANEL
MOT - TEMPORARY STAGING SIGN		BM - BRIDGE MOUNTED	OH - OVERHEAD

TEMPORARY BRIDGE MOUNT (EB I-290) STAGE 2



D160X76-SHT-Sign-OH-03.dgn
 USER NAME = v1janachione
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - JMG
 DATE - 5/10/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

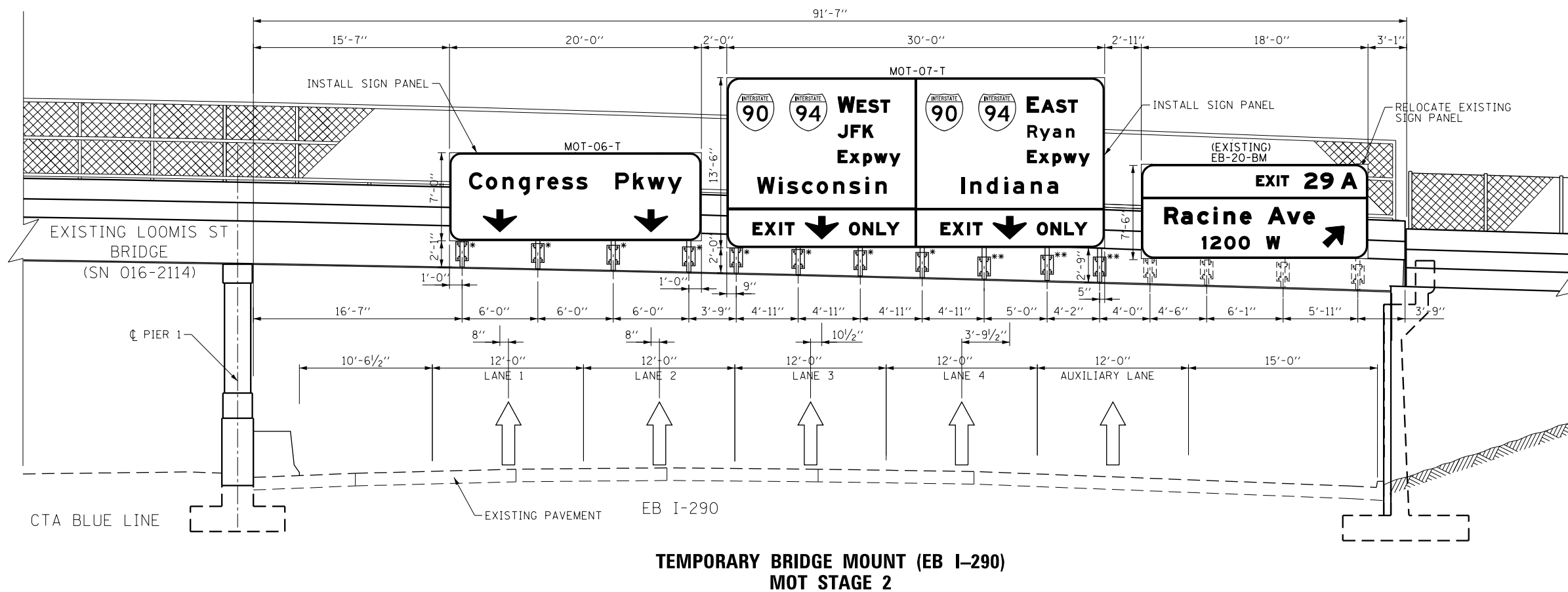
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
 SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 4 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	367
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

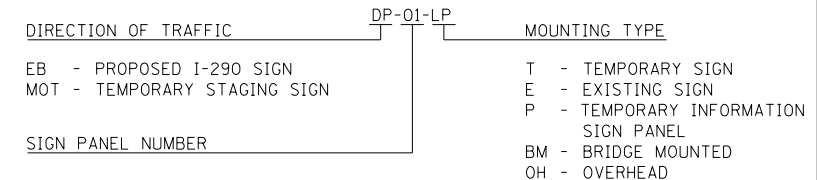
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- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 - *3. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBERS 1B0161290R029.0B AND 1B0161290R029.0C.
 - **4. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE EXISTING SIGN SUPPORT AND BRIDGE MOUNTED SIGN SUPPORT.

**TEMPORARY BRIDGE MOUNT (EB I-290)
MOT STAGE 2**

**SIGN NUMBERING CODE
EXAMPLE**



DI60X76-SHT-Sign-OH-04.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

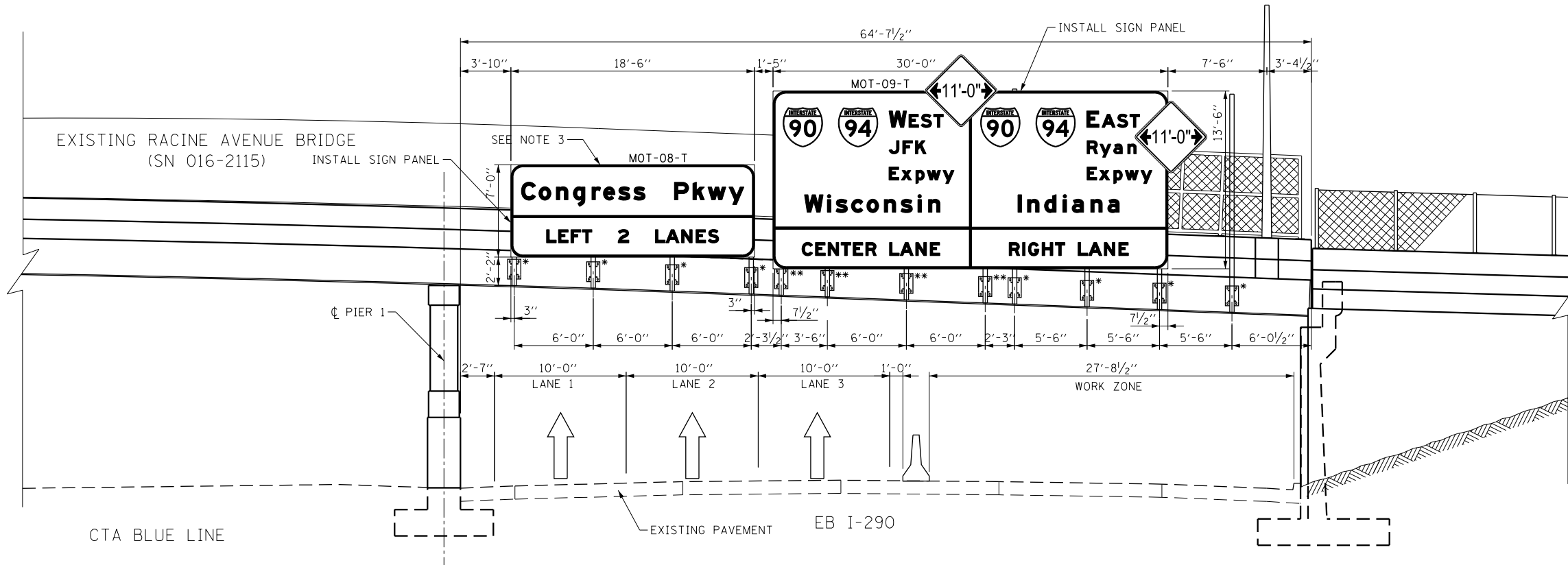
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 5 OF 13 SHEETS STA. TO STA.

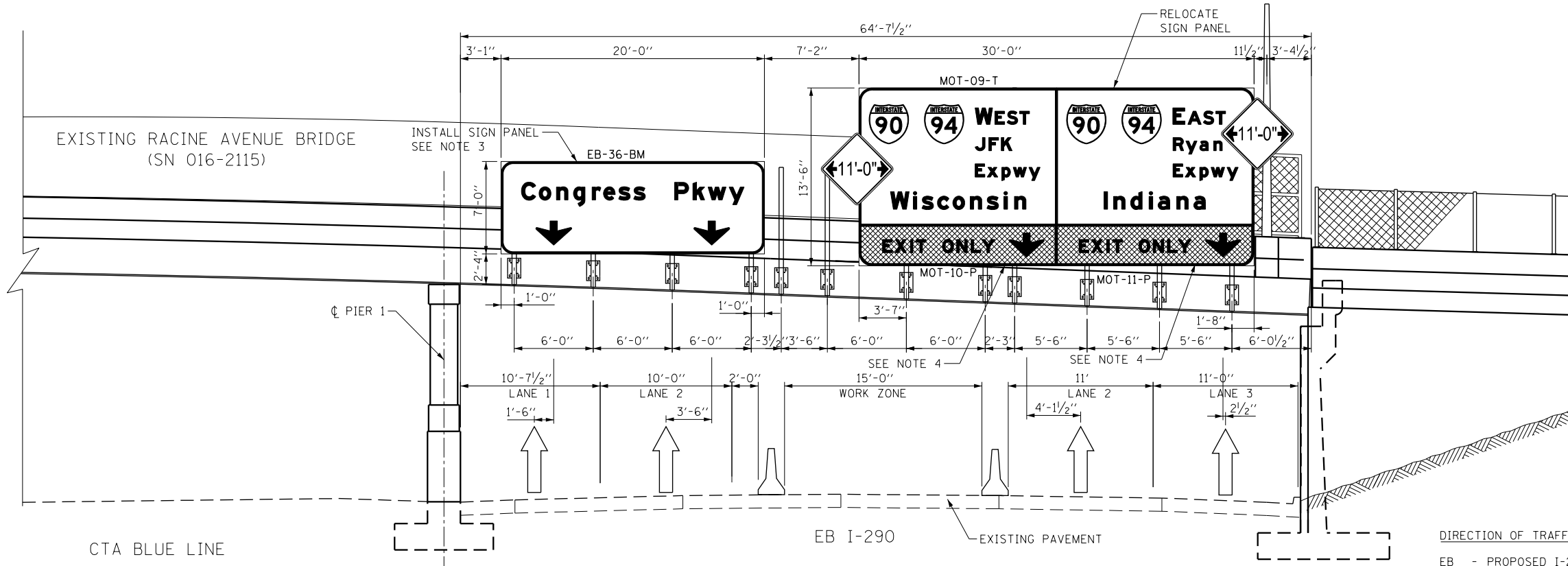
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	368
				CONTRACT NO. 60X76
ILLINOIS FED. AID PROJECT				

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**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGES 1B & 1C
STA 5124 + 99.03 STR 1B016I290R029.3**

- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 3. REMOVE OVERHEAD SIGN PANEL AT THE CONCLUSION OF STAGE 1C AND REERECT AT CONCLUSION OF STAGE 2.
 - *4. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED AND OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED. SEE SHEETS 387 TO 389 FOR SIGN STRUCTURE NUMBERS 1B016I290R029.3A AND 1B016I290R029.3C.
 - **5. OVERHEAD SIGN STRUCTURE TO BE PAID FOR AS REMOVE EXISTING SIGN SUPPORT AND BRIDGE MOUNTED SIGN SUPPORT.



**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGE 2
STA 5124 + 99.03 STR 1B016I290R029.3**

- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 3. REMOVE OVERHEAD SIGN PANEL AT CONCLUSION OF STAGE 2 AND REERECT AT CONCLUSION OF STAGE 3.
 4. TEMPORARY SIGN PANEL FROM STAGE 1A TO REMAIN. CONTRACTOR TO COVER THE BOTTOM PANEL WITH MOT-10-P AND MOT-11-P AS SHOWN. TO BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
		BM - BRIDGE MOUNTED
		OH - OVERHEAD



D160X76-SHT-Sign-OH-05.dgn
USER NAME = v1janachione
PLOT SCALE = 10.0000 / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

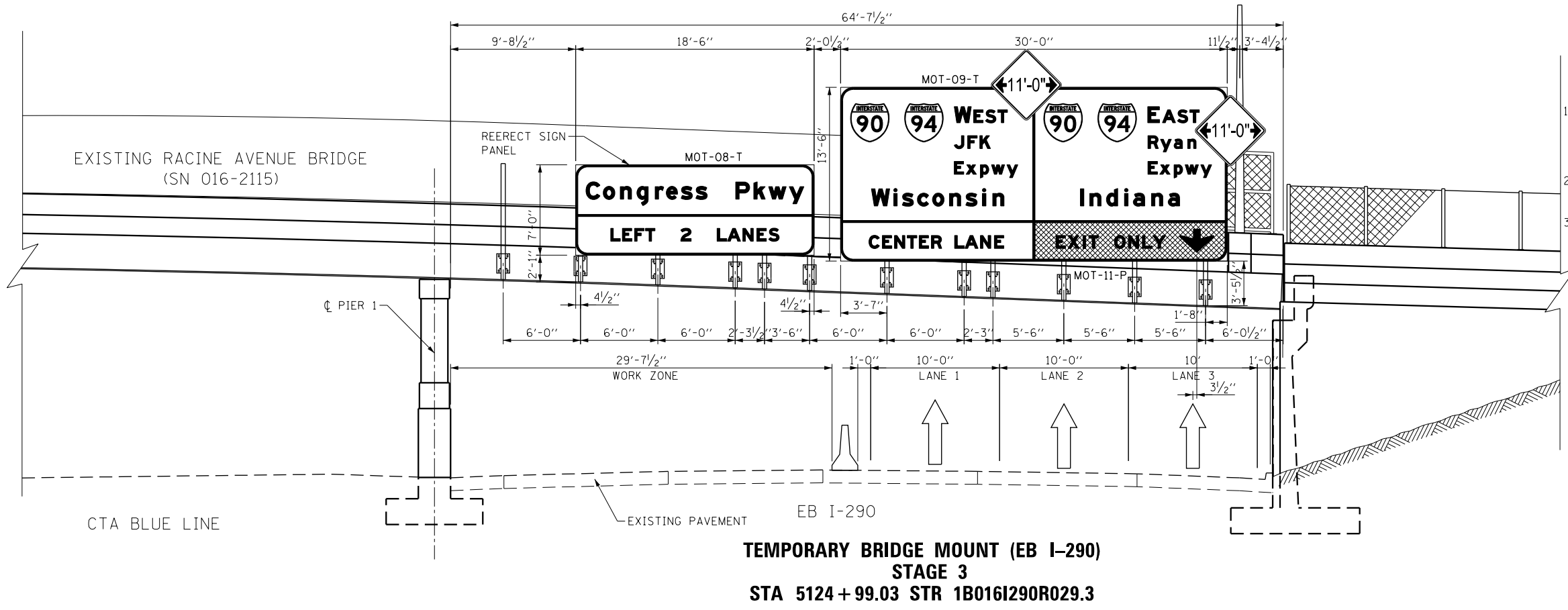
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 6 OF 13 SHEETS STA. TO STA.

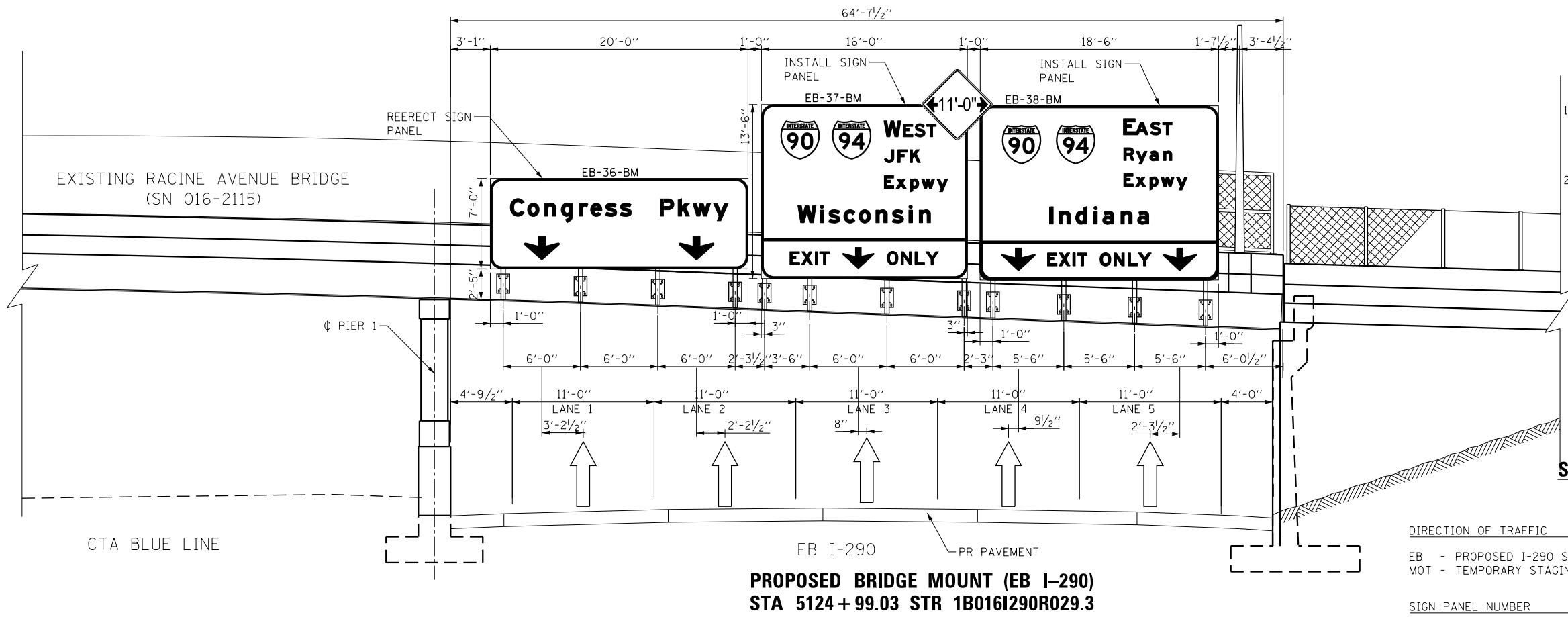
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	369
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGE 3
STA 5124 + 99.03 STR 1B016I290R029.3**

- NOTES:**
- ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 - SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 - TEMPORARY SIGN PANEL FROM STAGE 1A TO REMAIN. BOTTOM RIGHT PANEL SHALL REMAIN COVERED FROM STAGE 2.



**PROPOSED BRIDGE MOUNT (EB I-290)
STA 5124 + 99.03 STR 1B016I290R029.3**

- NOTES:**
- ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 - SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
		BM - BRIDGE MOUNTED
		OH - OVERHEAD



D160X76-SHT-Sign-OH-06.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JMG	REVISED -
PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

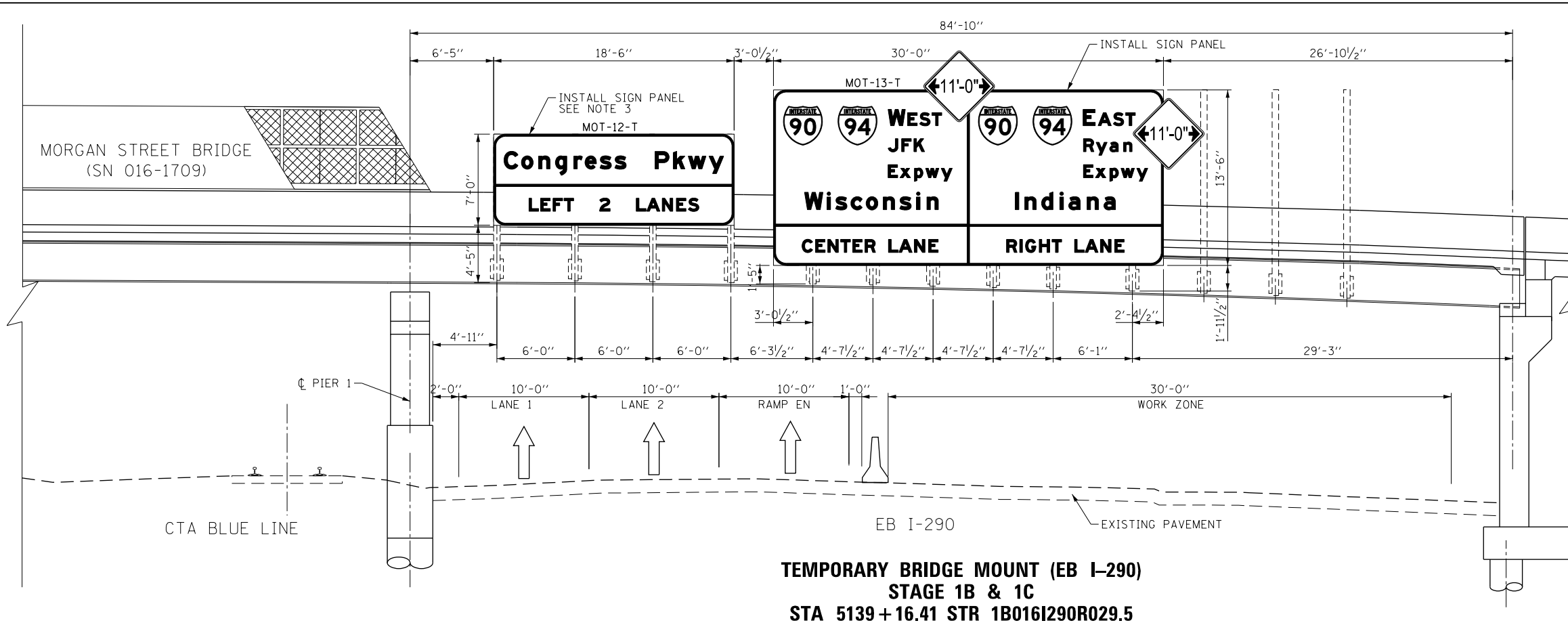
**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	370
CONTRACT NO. 60X76				

ILLINOIS FED. AID PROJECT

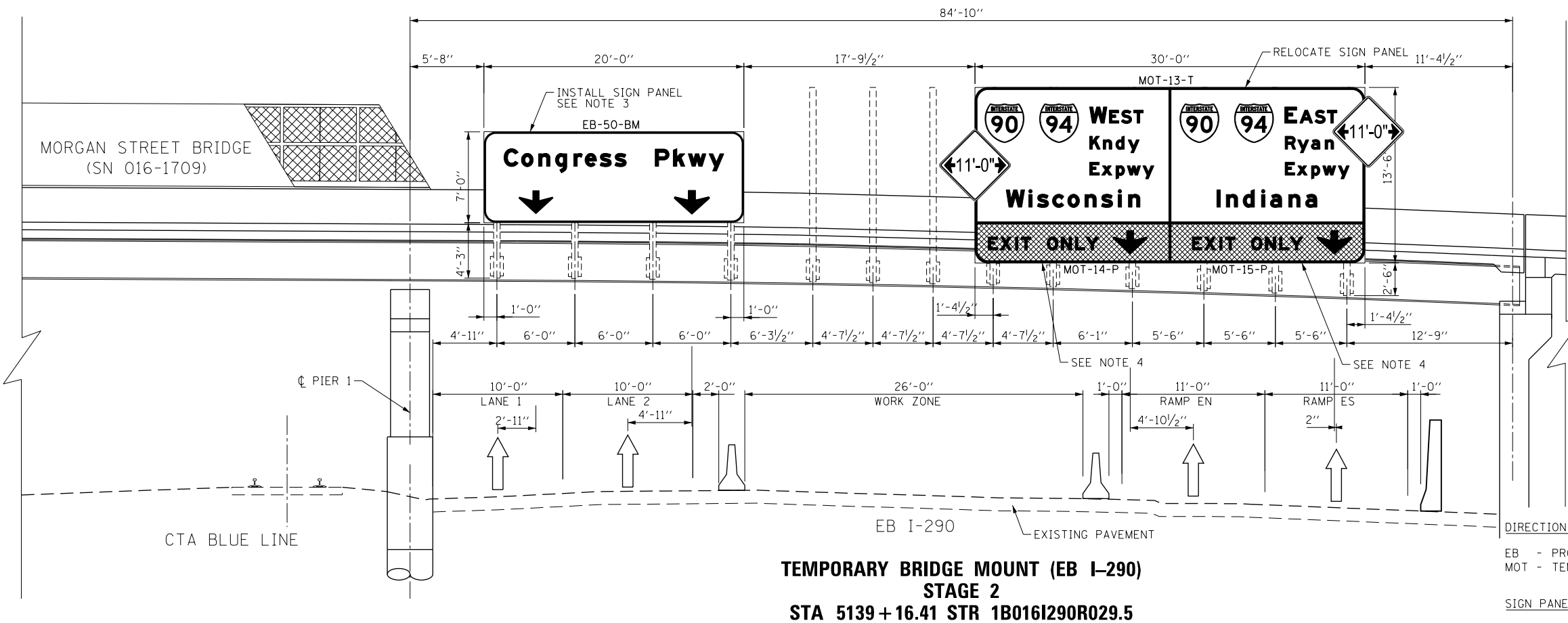
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NOTES:

1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
3. REMOVE OVERHEAD SIGN PANEL AT THE CONCLUSION OF STAGE 1C AND REERECT AT BEGINING OF STAGE 3.

**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGE 1B & 1C
STA 5139+16.41 STR 1B016I290R029.5**



NOTES:

1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
3. REMOVE OVERHEAD SIGN PANEL AT THE CONCLUSION OF STAGE 2 AND REERECT AT CONCLUSION OF STAGE 3.
4. TEMPORARY SIGN PANEL FROM STAGE 1A TO REMAIN. CONTRACTOR TO COVER THE BOTTOM PANEL WITH MOT-14-P AND MOT-15-P AS SHOWN. TO BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGE 2
STA 5139+16.41 STR 1B016I290R029.5**

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
		BM - BRIDGE MOUNTED
		OH - OVERHEAD



D160X76-SHT-Sign-OH-07.dgn
USER NAME = v1janachione
PLOT SCALE = 10.0000' / 1"
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

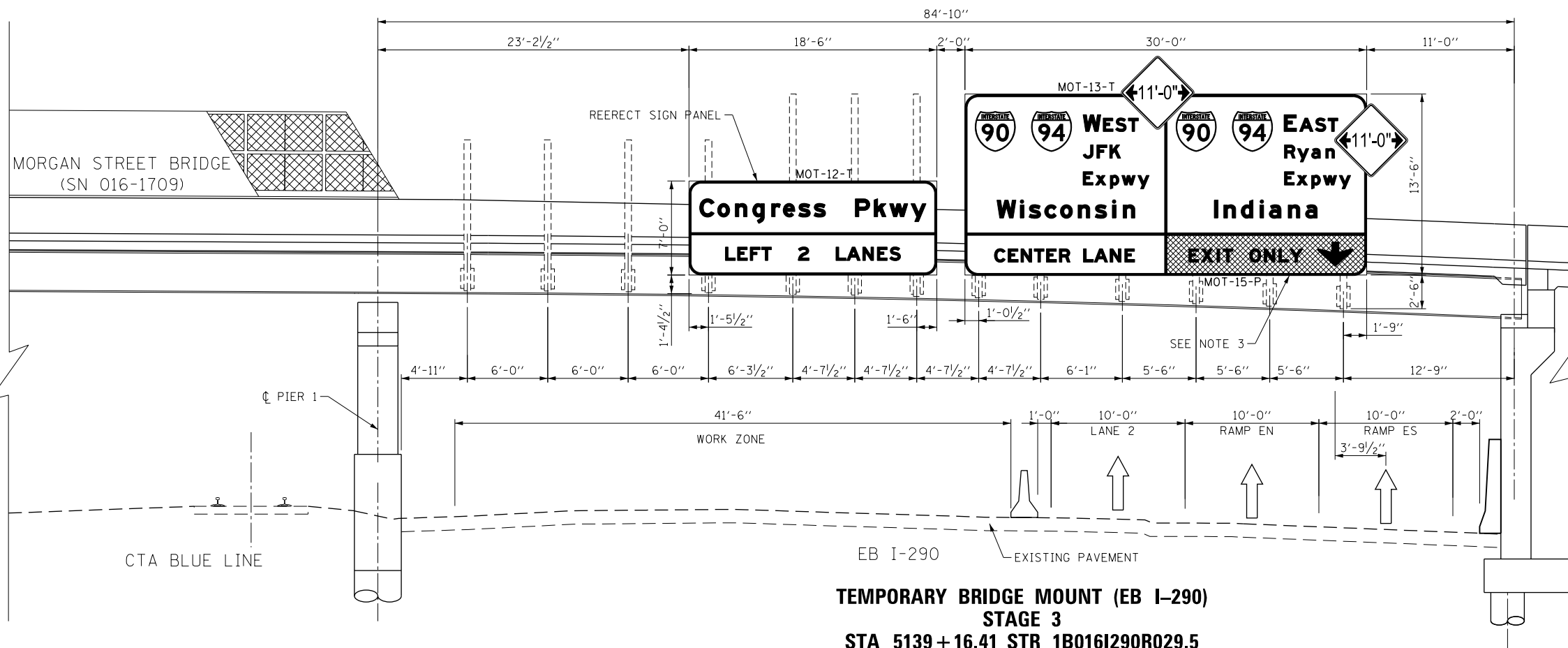
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

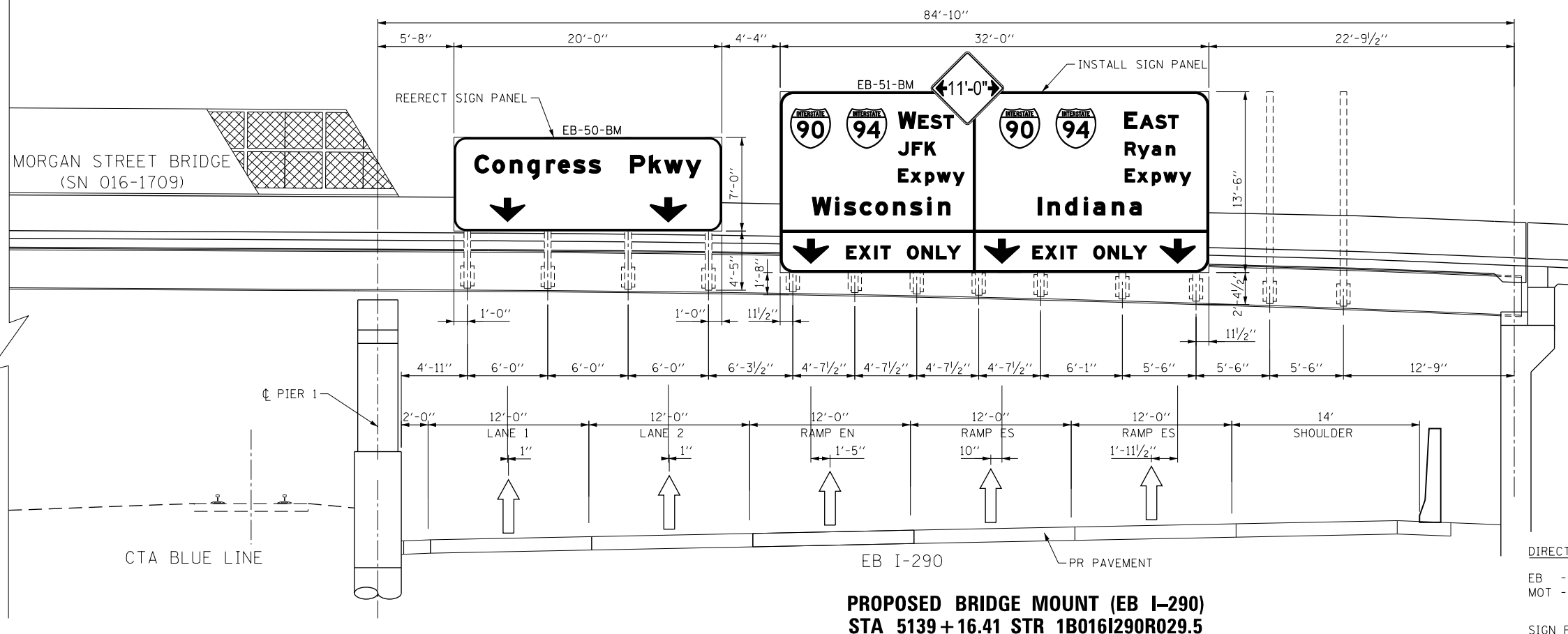
SCALE: 1" = 5'
SHEET 8 OF 13 SHEETS
STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	371
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



**TEMPORARY BRIDGE MOUNT (EB I-290)
STAGE 3
STA 5139 + 16.41 STR 1B016I290R029.5**

- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 3. TEMPORARY SIGN PANEL FROM STAGE 1A TO REMAIN. BOTTOM RIGHT PANEL SHALL REMAIN COVERED FROM STAGE 1B.



**PROPOSED BRIDGE MOUNT (EB I-290)
STA 5139 + 16.41 STR 1B016I290R029.5**

- NOTES:**
1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
 2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.

**SIGN NUMBERING CODE
EXAMPLE**

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
		BM - BRIDGE MOUNTED
		OH - OVERHEAD

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D160X76-SHT-Sign-OH-08.dgn
USER NAME = v1janachione
PLOT SCALE = 10.0000 / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JGM
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

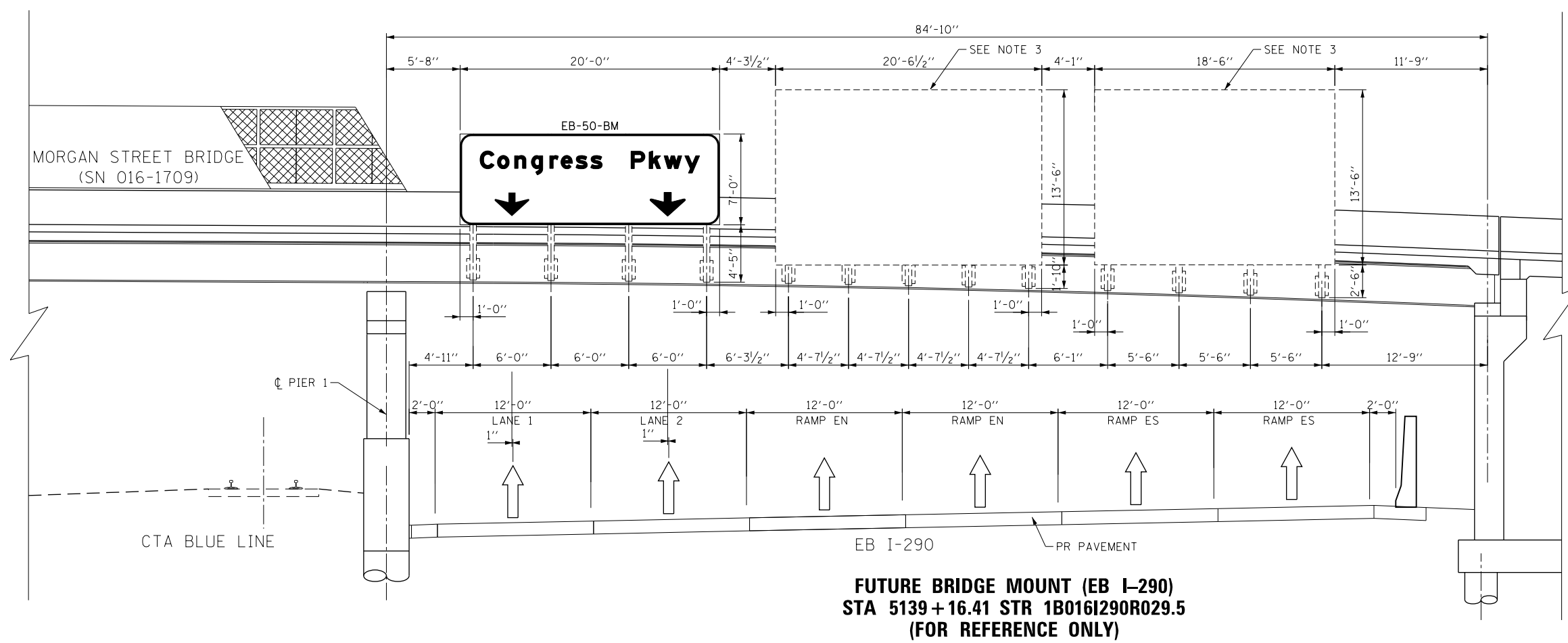
**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	372
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

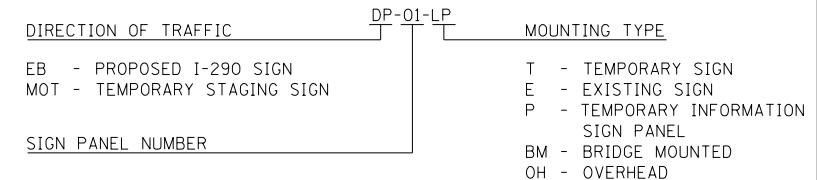
NOTES:

1. ALL DIMENSIONS SHOWN FOR THE EXISTING BRACKETS ON THE TEMPORARY BRIDGE MOUNT ARE APPROXIMATED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING SIGNS.
2. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
3. THE DASHED OUTLINE IN THE DETAIL SHOWS THE PERMANENT SIGNS TO BE INSTALLED IN A FUTURE CONTRACT (TYPICAL).



**FUTURE BRIDGE MOUNT (EB I-290)
STA 5139 + 16.41 STR 1B016I290R029.5
(FOR REFERENCE ONLY)**

**SIGN NUMBERING CODE
EXAMPLE**



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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

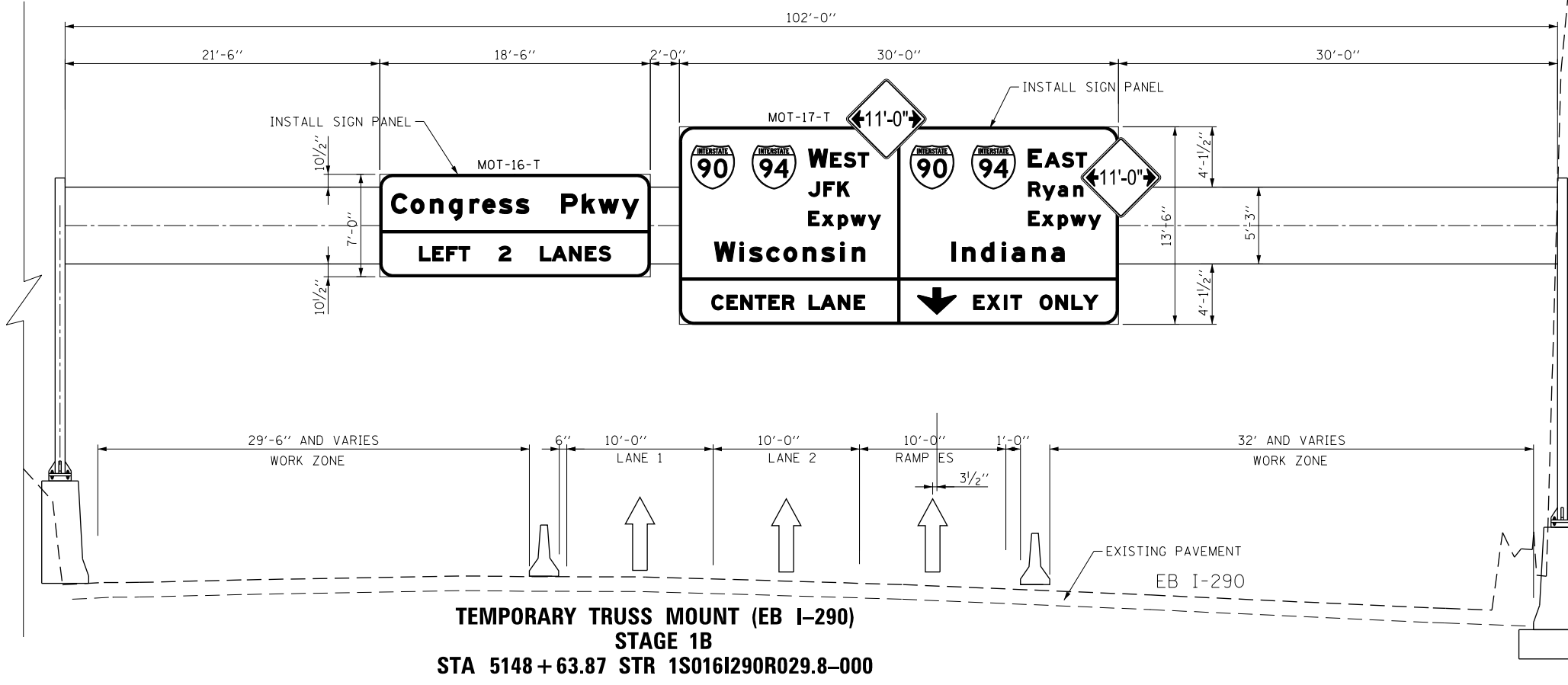
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

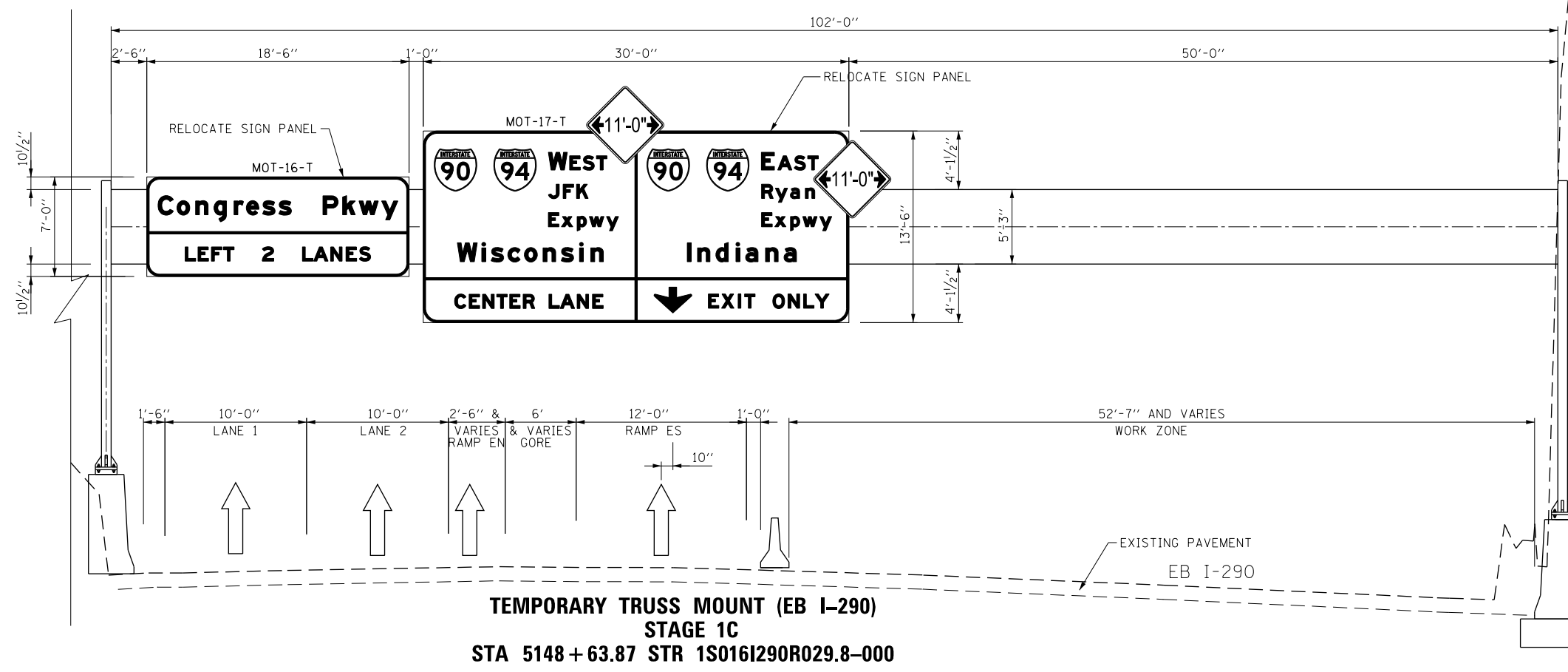
SCALE: 1" = 5' SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	373
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

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NOTES:
1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.



NOTES:
1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
SIGN PANEL NUMBER		BM - BRIDGE MOUNTED
		OH - OVERHEAD



D:\60X76-SHT-Sign-0H-10.dgn	DESIGNED - BJJ	REVISED -
USER NAME = v1janachione	DRAWN - BJJ	REVISED -
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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

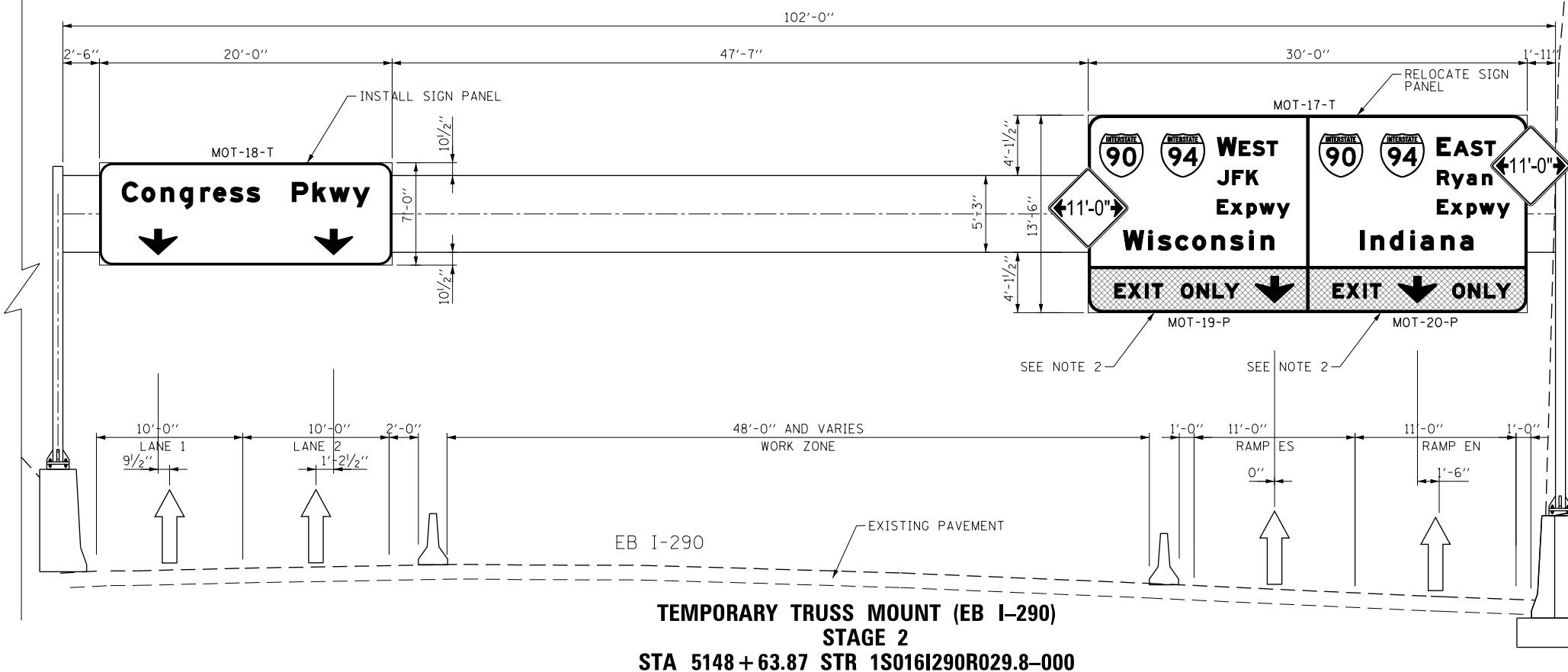
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 11 OF 13 SHEETS STA. TO STA.

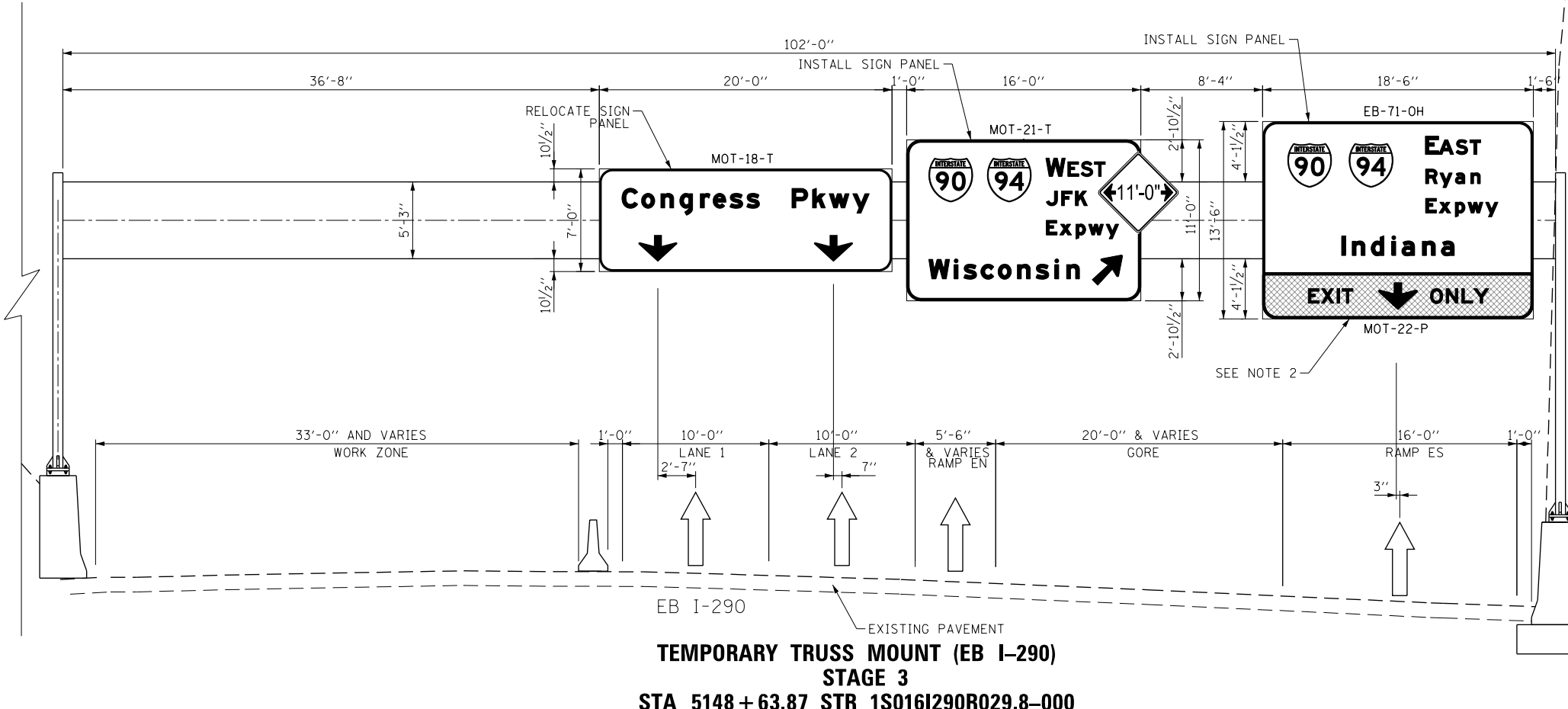
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90/94/290	2014-002R&B	COOK	814	374
			CONTRACT NO. 60X76	
ILLINOIS FED. AID PROJECT				

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**TEMPORARY TRUSS MOUNT (EB I-290)
STAGE 2
STA 5148 + 63.87 STR 1S016I290R029.8-000**

- NOTES:**
1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 2. TEMPORARY SIGN PANEL FROM STAGE 1A TO REMAIN. CONTRACTOR TO COVER THE BOTTOM PANEL WITH MOT-19-P AND MOT-20-P AS SHOWN. TO BE PAID FOR AS TEMPORARY



**TEMPORARY TRUSS MOUNT (EB I-290)
STAGE 3
STA 5148 + 63.87 STR 1S016I290R029.8-000**

- NOTES:**
1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
 2. FINAL SIGN PANEL TO BE INSTALLED. CONTRACTOR TO COVER THE BOTTOM PANEL WITH MOT-22-P AS SHOWN. TO BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN	T - TEMPORARY SIGN	E - EXISTING SIGN
MOT - TEMPORARY STAGING SIGN	P - TEMPORARY INFORMATION SIGN PANEL	BM - BRIDGE MOUNTED
SIGN PANEL NUMBER	OH - OVERHEAD	



D160X76-SHT-Sign-0H-11.dgn
USER NAME = v1janachione
PLOT SCALE = 10.0000 / in.
PLOT DATE = 5/9/2017

DESIGNED - BJJ
DRAWN - BJJ
CHECKED - JMG
DATE - 5/10/17

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT**

SCALE: 1" = 5' SHEET 12 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	375
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

NOTES:

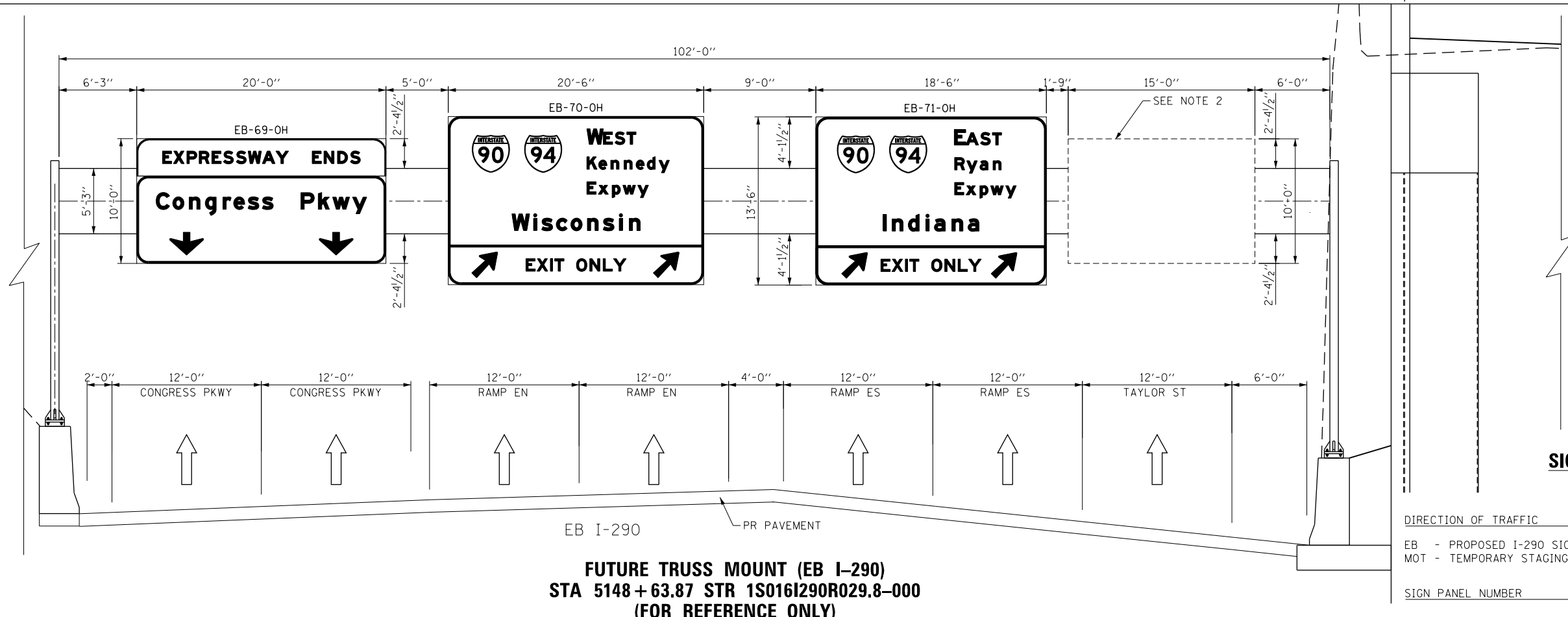
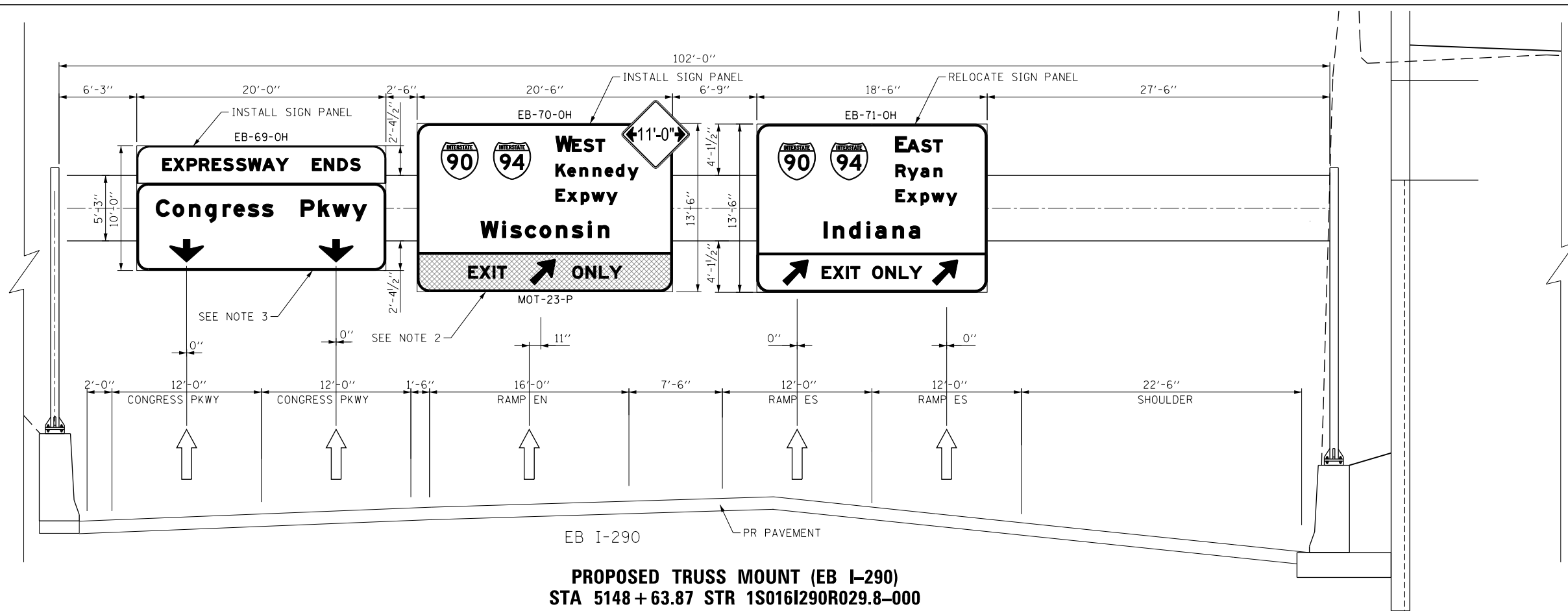
1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
2. FINAL SIGN PANEL TO BE INSTALLED. CONTRACTOR TO COVER THE BOTTOM PANEL WITH MOT-23-P AS SHOWN. TO BE PAID FOR AS TEMPORARY INFORMATION SIGNING.
3. AT COMPLETION, CONGRESS PARKWAY SIGN TO BE FULLY SUPPORTED FROM TOP TO BOTTOM. VERTICAL BRACKET EXTENSIONS NOT ACCEPTABLE.

NOTES:

1. SEE SHEET NO. 350 TO 363 FOR OVERHEAD SIGN PANEL DETAILS.
2. THE DASHED OUTLINE IN THE DETAIL SHOWS THE PERMANENT SIGNS TO BE INSTALLED IN A FUTURE CONTRACT (TYPICAL).

SIGN NUMBERING CODE EXAMPLE

DIRECTION OF TRAFFIC	DP-01-LP	MOUNTING TYPE
EB - PROPOSED I-290 SIGN		T - TEMPORARY SIGN
MOT - TEMPORARY STAGING SIGN		E - EXISTING SIGN
		P - TEMPORARY INFORMATION SIGN PANEL
SIGN PANEL NUMBER		BM - BRIDGE MOUNTED
		OH - OVERHEAD



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DI60X76-SHT-Sign-0H-12.dgn
 USER NAME = v1janachione
 PLOT SCALE = 10.0000 / 1 in.
 PLOT DATE = 5/9/2017

DESIGNED - BJJ
 DRAWN - BJJ
 CHECKED - JMG
 DATE - 5/10/17

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
SIGN PANEL PLACEMENT

SCALE: 1" = 5' SHEET 13 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	376
			CONTRACT NO. 60X76	
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

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

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

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

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

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

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

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

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

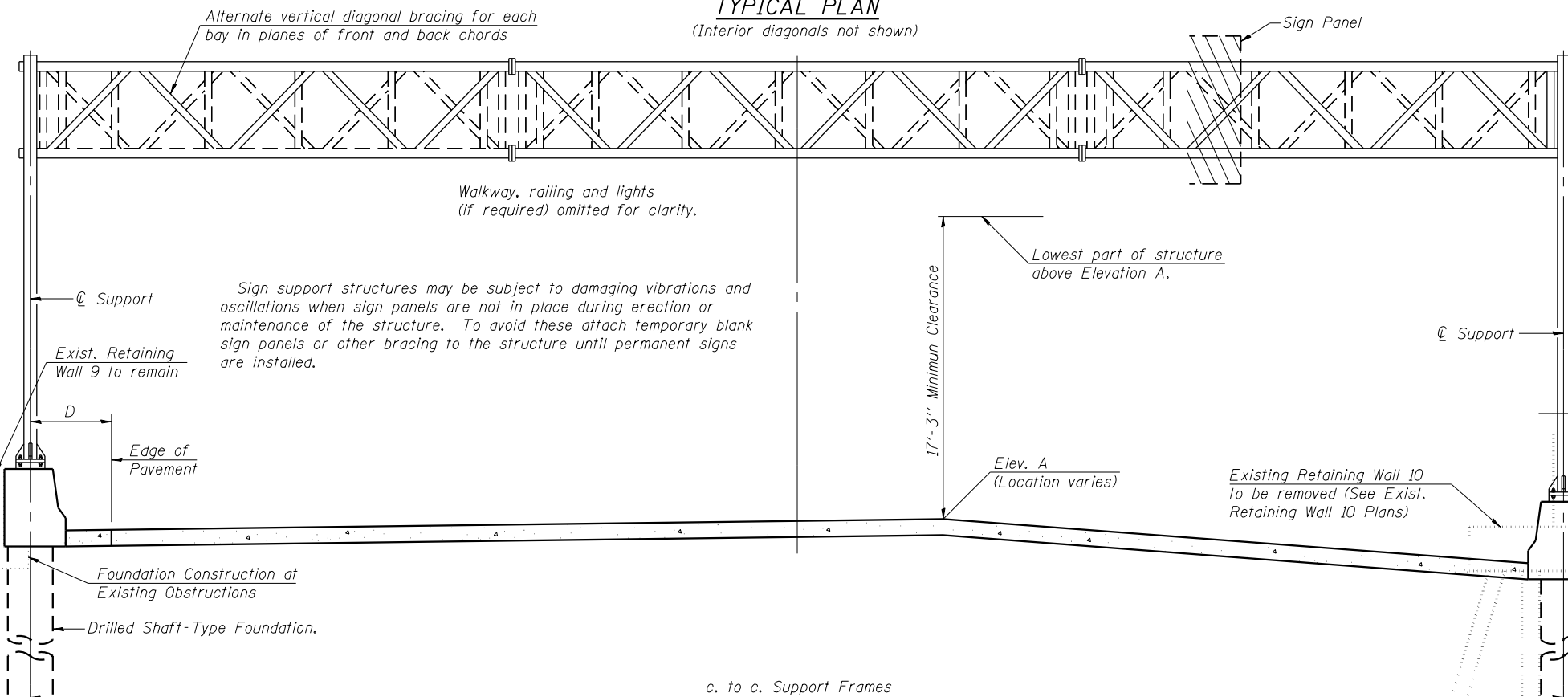
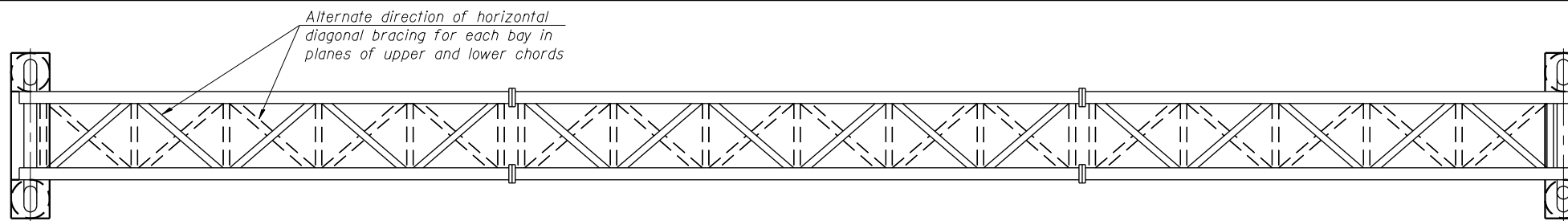
CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Concrete Sealer in accordance with the Standard Specifications.

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

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

TOTAL BILL OF MATERIAL

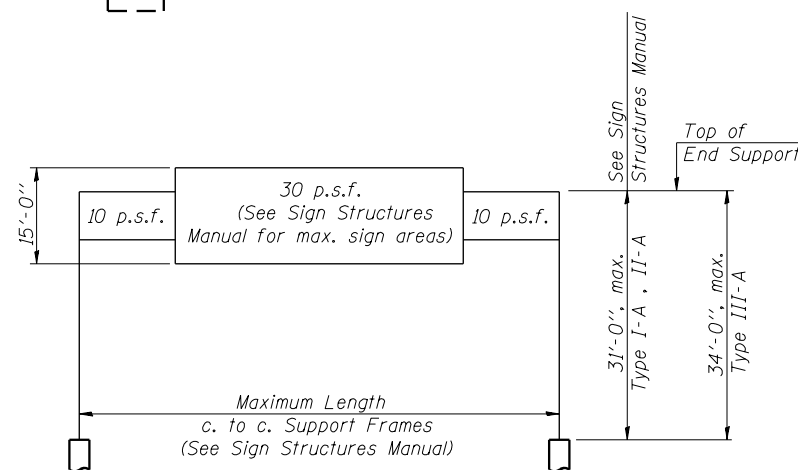
ITEM	UNIT	TOTAL
Overhead Sign Structure - Span, Type III-A (5'-0" x 7'-0")	Foot	103
Drilled Shaft Concrete Foundations	Cu. Yds.	45.2
Pile Extraction	Each	4
Foundation Construction at Existing Obstructions	Each	2



TYPICAL ELEVATION
(Looking at Face of Signs**)

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

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
ISO161290R029.8-000	5148+69.87	III-A	103'-0"	577.07	4'-3 1/2"	13'-6"	814 Sq Ft



DESIGN WIND LOADING DIAGRAM

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

**Looking upstation for structures with signs both sides.

* 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.

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PLOT DATE = 5/9/2017	DATE - 5/10/17	REVISED -

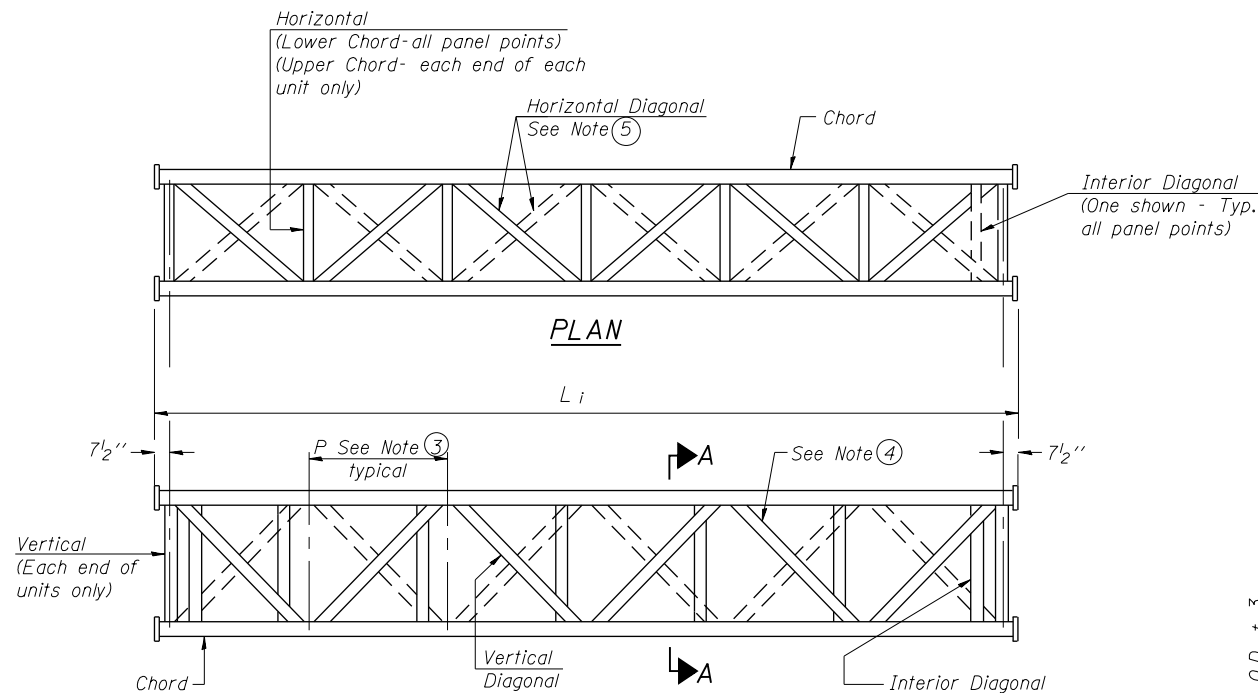
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

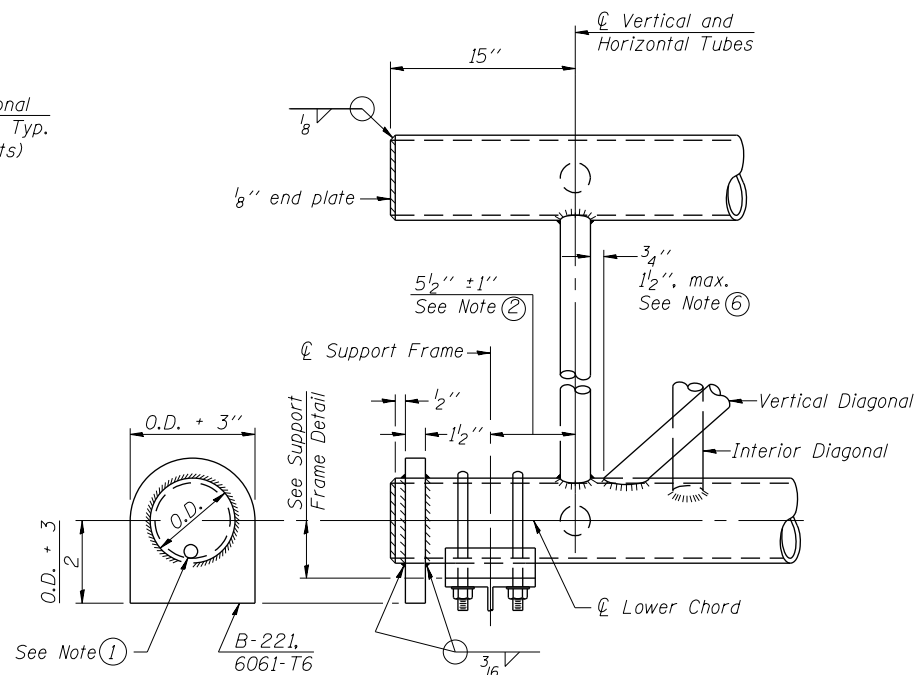
SCALE: SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	377
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X76	

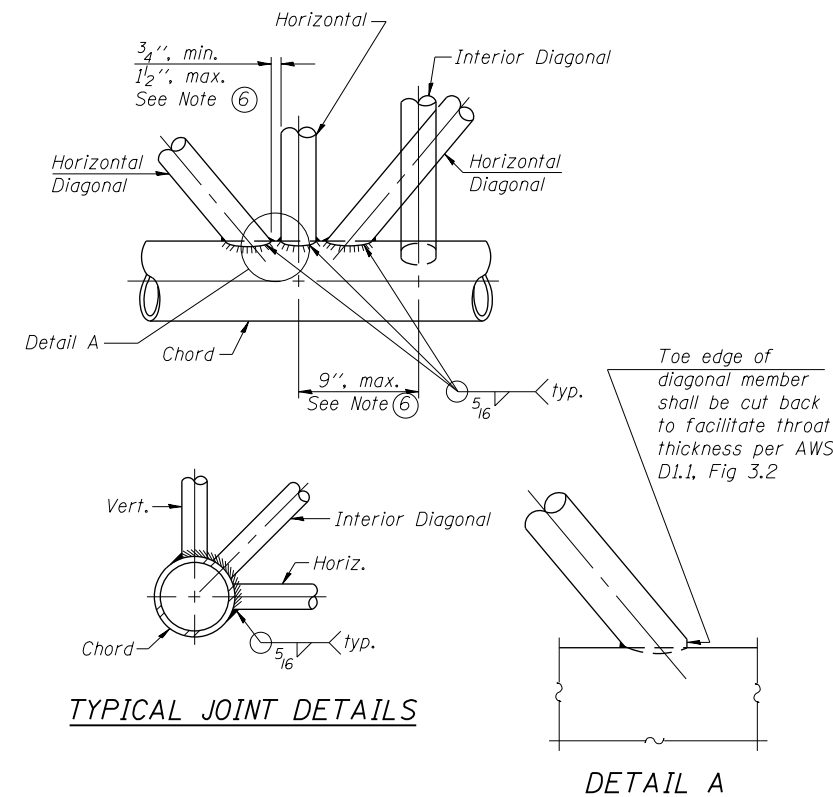
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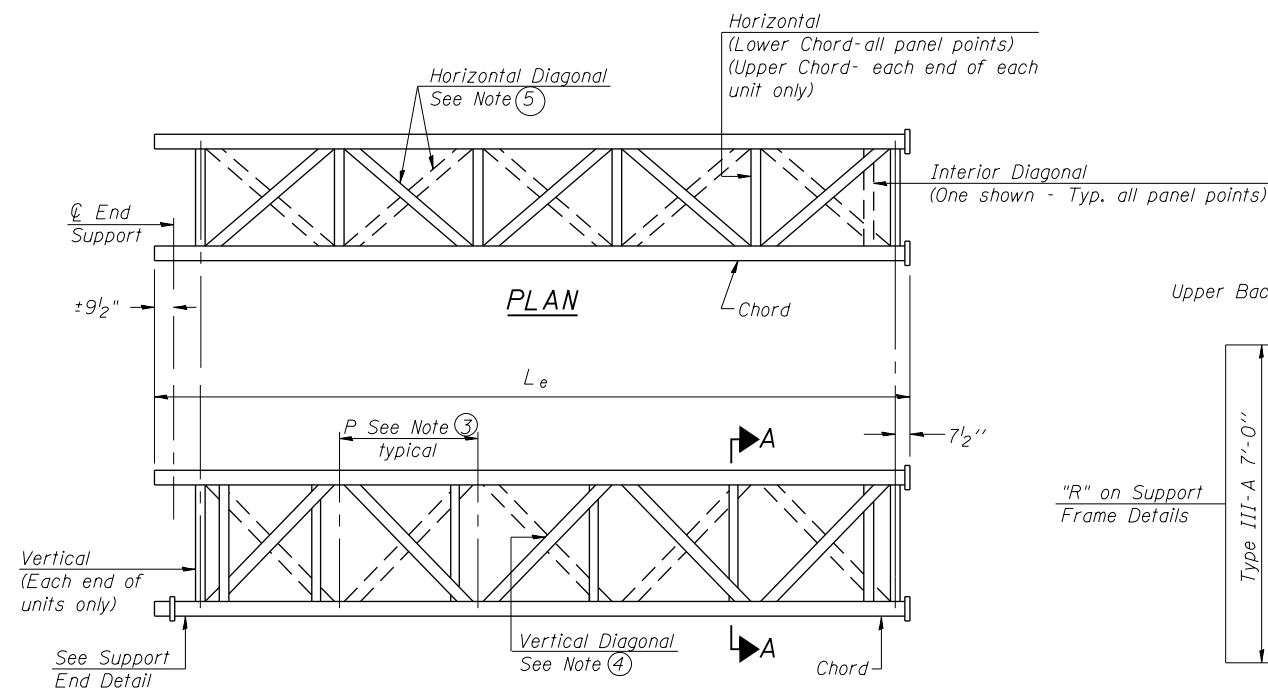
**ELEVATION
TYPICAL INTERIOR UNIT**
Even number of panels/interior unit required.



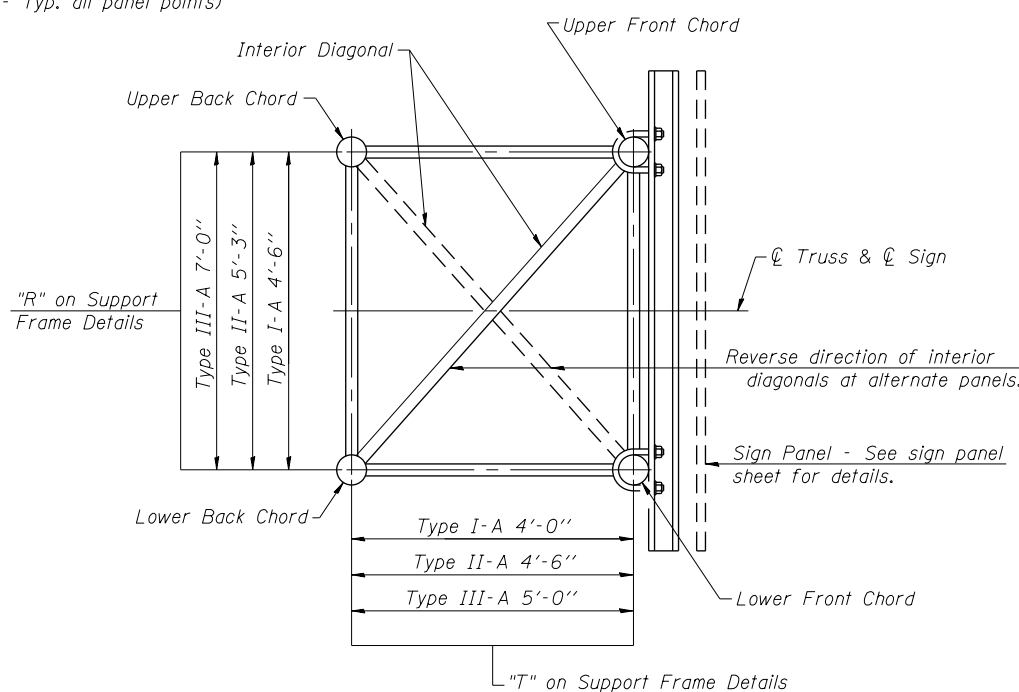
SUPPORT END DETAIL FOR EXTERIOR UNIT



TYPICAL JOINT DETAILS



**ELEVATION
TYPICAL EXTERIOR UNIT**
Even or odd number of panels/exterior units allowed.



SECTION A-A

- ① Contractor may alternatively use standard aluminum drive-fit cap to close end. 1/2" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
- ② 5 1/2" end dimension may vary by $\pm 1"$ to provide uniform panel spacing (P).
- ③ Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A 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.



DI60X76-SHT-SIGN-STR-02.dgn
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 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 5/9/2017

DESIGNED - WJC
 DRAWN - WJC
 CHECKED - TLR
 DATE - 5/10/17

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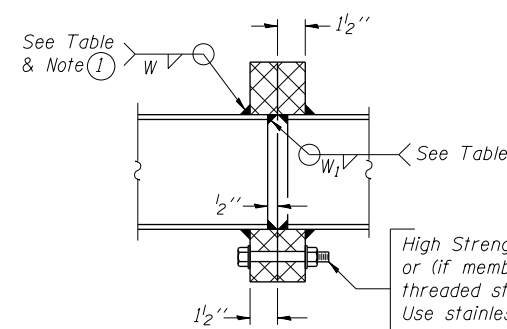
**OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS
DETAILS FOR TRUSS TYPES I-A, II-A AND III-A**

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	378
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

TRUSS UNIT TABLE

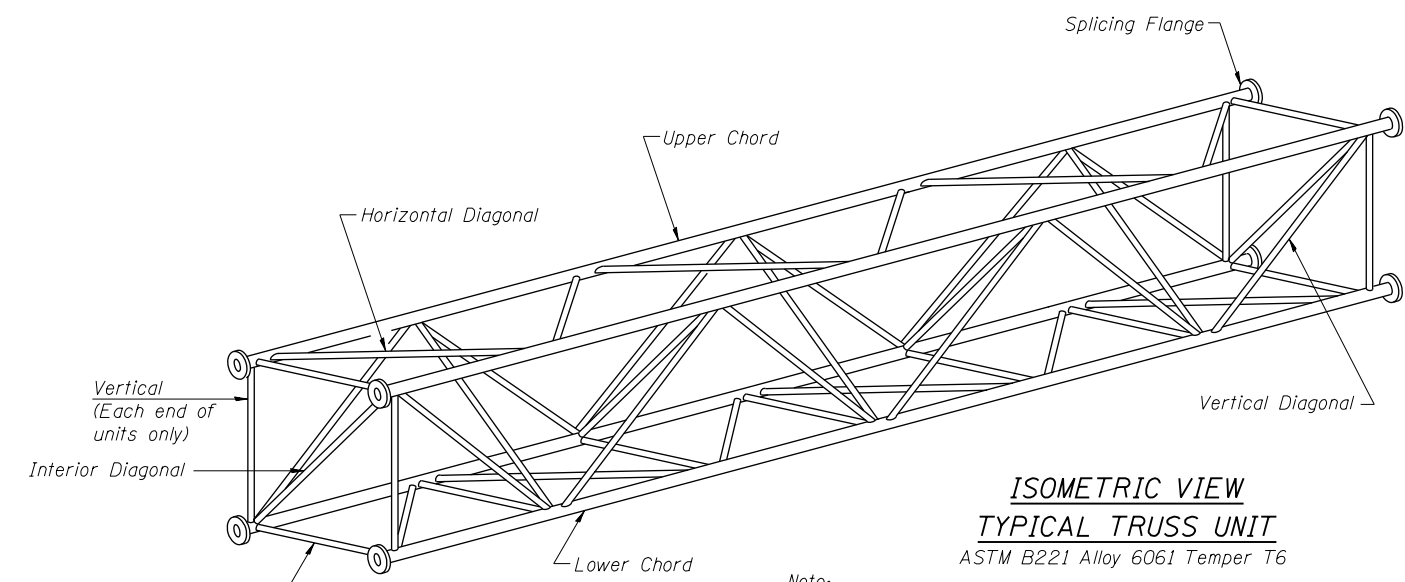
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit			Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange						
			No. Panels per Unit	Unit Lgth.(L _e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.		Wall	Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W ₁		
ISO161290R029.8-000	5148+69.87	III-A	7	36'-8 ³ / ₄ "	4'-11 ³ / ₄ "	1	6	31'-1 ¹ / ₂ "	4'-11 ³ / ₄ "	7	5 ⁵ / ₁₆ "	34"	5 ⁵ / ₁₆ "	2 ⁷ / ₁₆ "	6	1"	7 ¹ / ₁₆ "	5 ⁵ / ₁₆ "	11 ¹ / ₂ "	15"



SECTION B-B

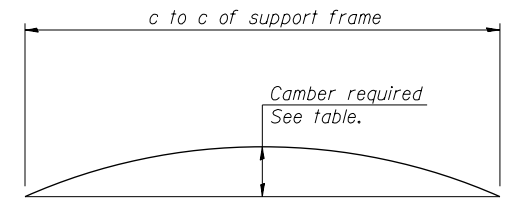
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.



ISOMETRIC VIEW TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

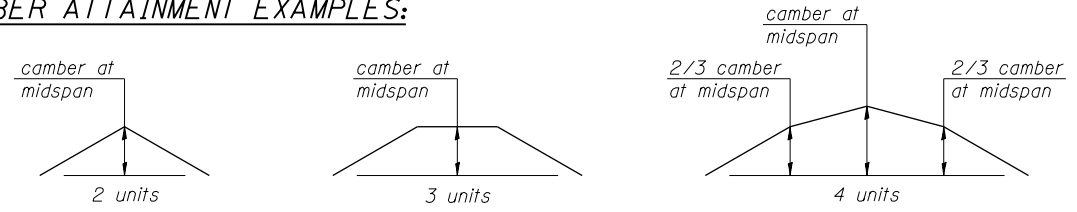
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



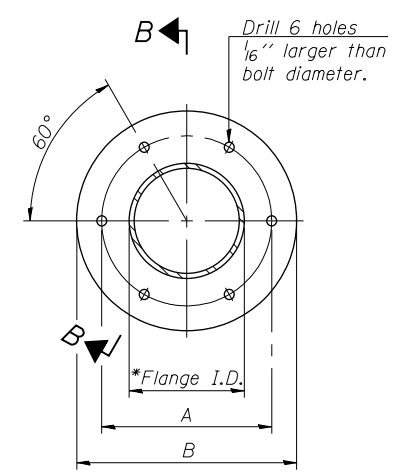
CAMBER DIAGRAM

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

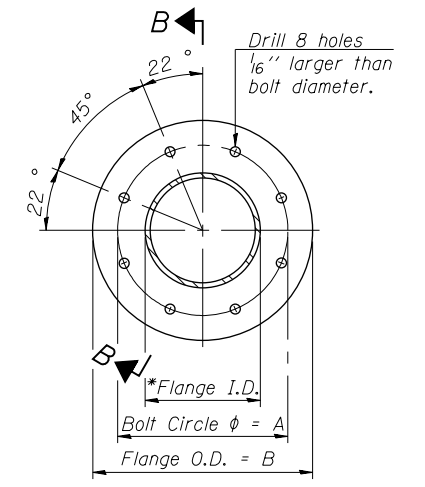
CAMBER ATTAINMENT EXAMPLES:



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



TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651

*To fit O.D. of Chord with maximum gap of 1/16".

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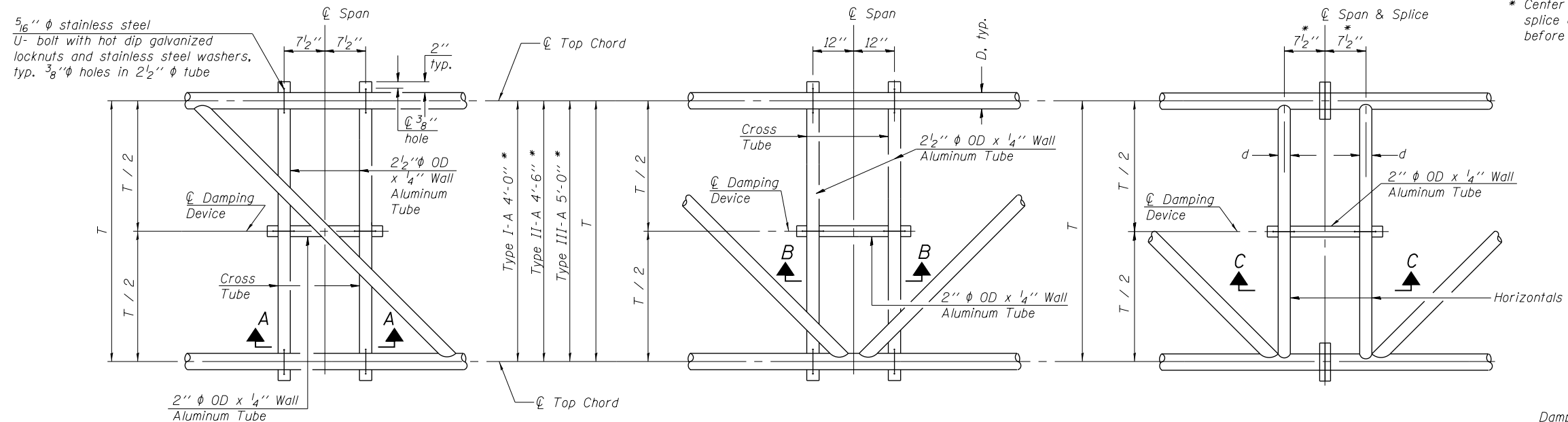
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OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 379
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 3 OF 13 SHEETS STA. TO STA.

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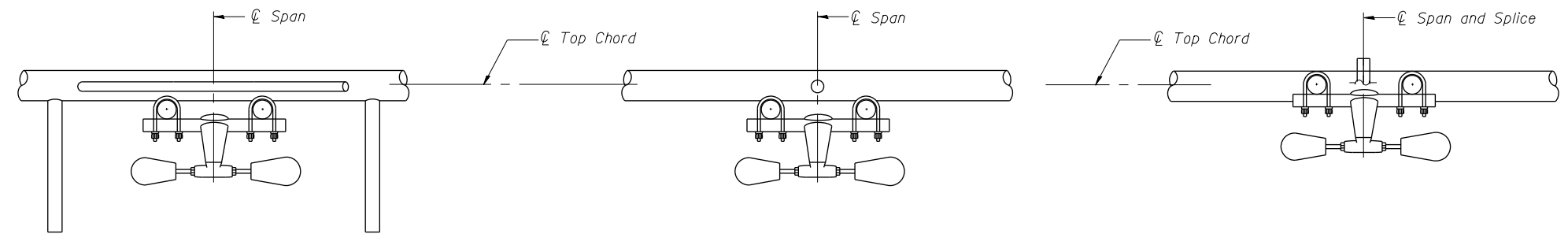


* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.

PLAN DETAIL "A"
Span between Panel Points

PLAN DETAIL "B"
Span at Panel Point

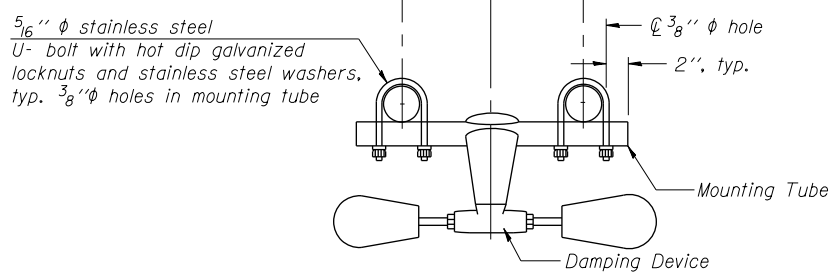
PLAN DETAIL "C"
Span at Chord Splice



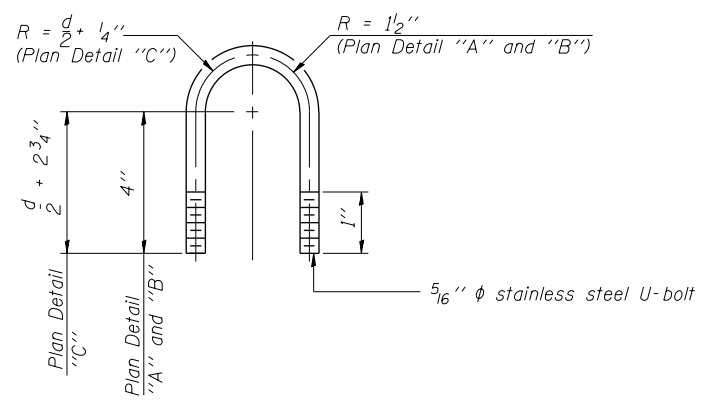
SECTION A-A

SECTION B-B

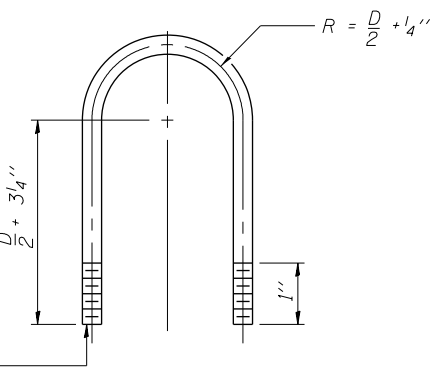
SECTION C-C



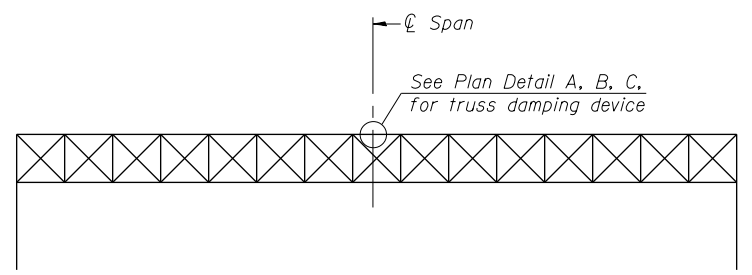
TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



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



ELEVATION
Aluminum Overhead Sign Truss

NOTES

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

Materials: Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure Span Type III-A



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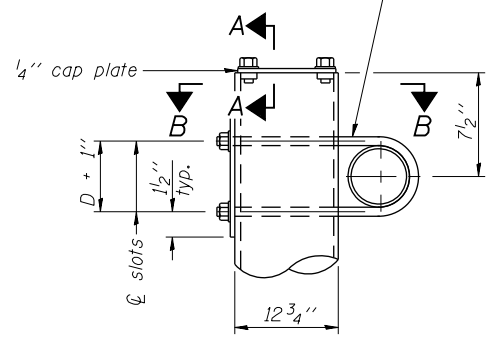
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OVERHEAD SIGN STRUCTURE			
DAMPING DEVICE			
SCALE:	SHEET 4	OF 13 SHEETS	STA. TO STA.

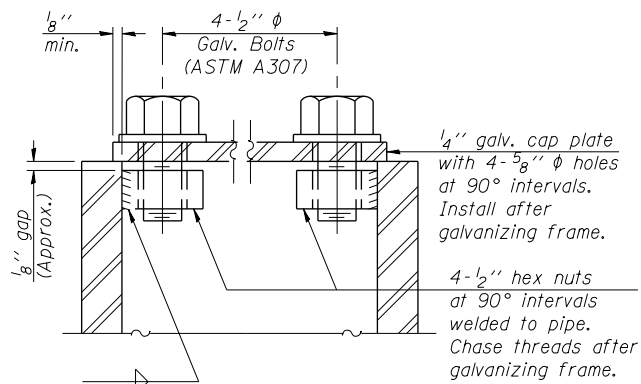
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90/94/290	2014-002R&B	COOK	814	380
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

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$\frac{3}{4}$ " ϕ stainless steel U-bolt.
 Provide two washers and two hexagon locknuts. (4)
 $\frac{13}{16}$ " x 2" slots on ϕ 12" ϕ pipe.
 (4 slots required per pipe)

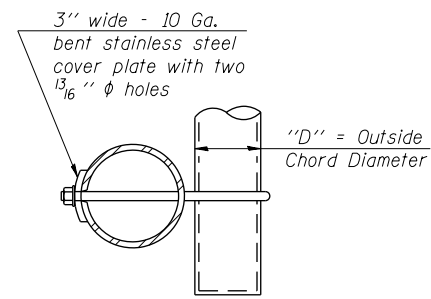


DETAIL A

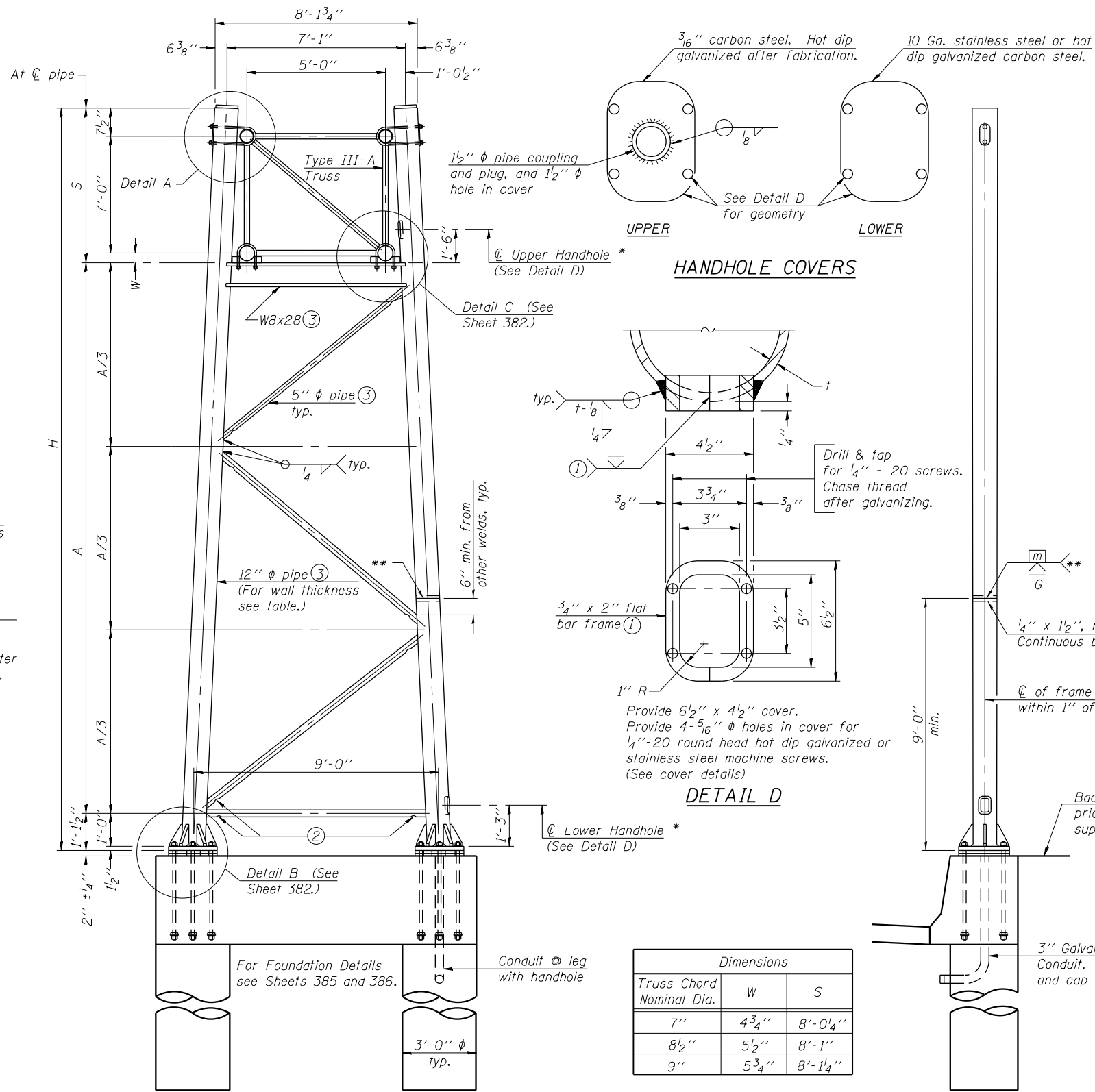


SECTION A-A

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



SECTION B-B



Dimensions		
Truss Chord Nominal Dia.	W	S
7"	4 3/4"	8'-0 1/4"
8 1/2"	5 1/2"	8'-1"
9"	5 3/4"	8'-1 1/4"

Support Design Loads: See Sheet 377 for design and loading criteria.
 Load combinations checked include deadload plus:
 a) 100% wind normal to sign, 20% parallel to sign
 b) 60% wind normal to sign, 30% parallel to sign

- ① In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.
- ② Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
- ③ Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Sheet 377.
- 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.

* For dynamic message sign installations, provide upper and lower handholes in both legs of each support frame.

TRUSS SUPPORT DETAILS

(12" ϕ Pipe-Type III-A Truss)

** 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		Pipe Wall Thickness	H (6)	A
		Left	Right			
150161290R029.8-000	5148+69.87	X		0.33"	25'-11 3/16"	16'-9 1/16"
150161290R029.8-000	5148+69.87		X	0.33"	27'-7 3/16"	18'-6 1/16"



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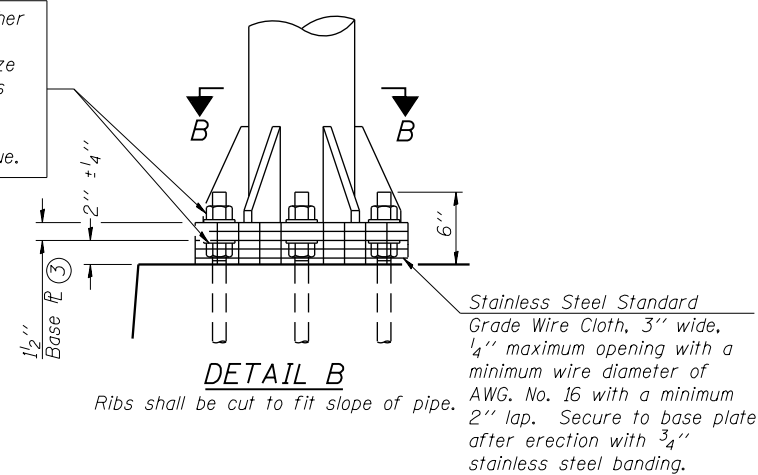
**STATE OF ILLINOIS
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**OVERHEAD SIGN STRUCTURES - SUPPORT FRAME
FOR TYPE III-A ALUMINUM TRUSS**

SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

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

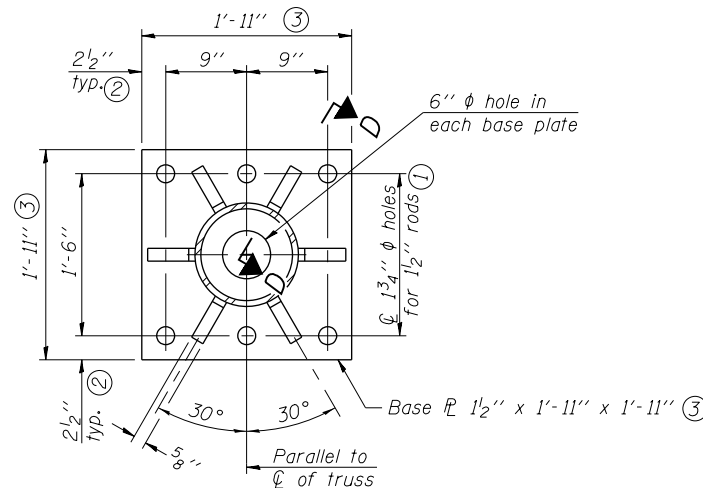
Hexagon locknut and washer (top), leveling nut and washer (bottom). Galvanize per AASHTO M232. Nuts shall each be tightened against base plate with 200 lb.-ft. minimum torque.



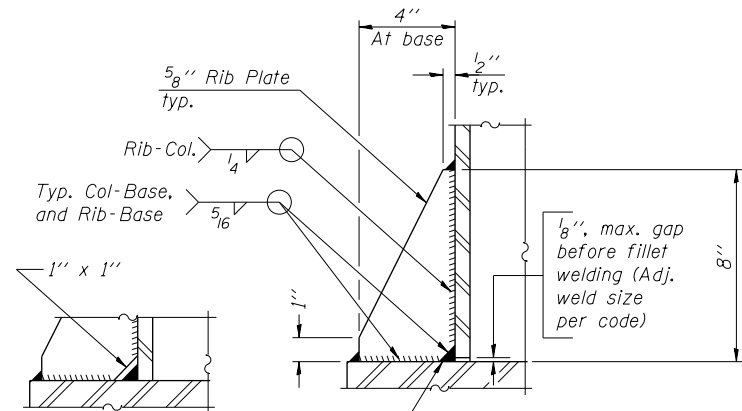
DETAIL B

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.



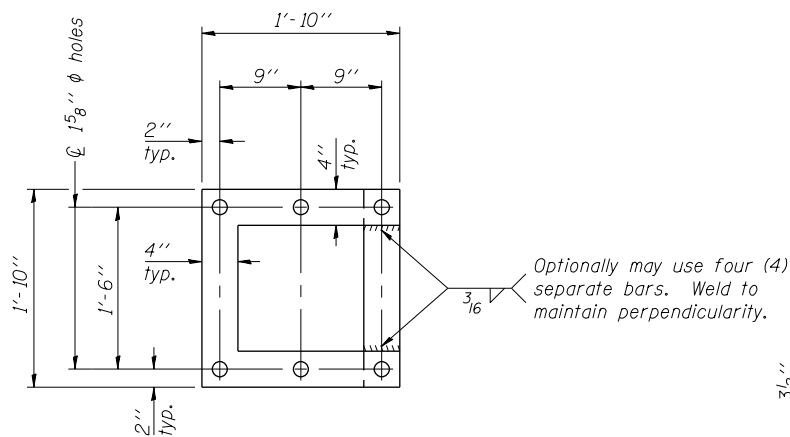
SECTION B-B



SECTION D-D

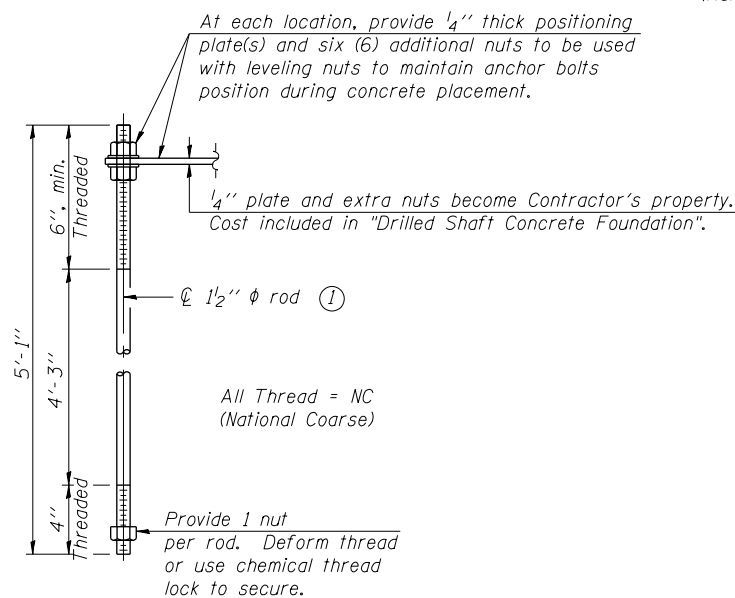
** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

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



POSITIONING PLATE(S)

Optionally may use four (4) separate bars. Weld to maintain perpendicularity.



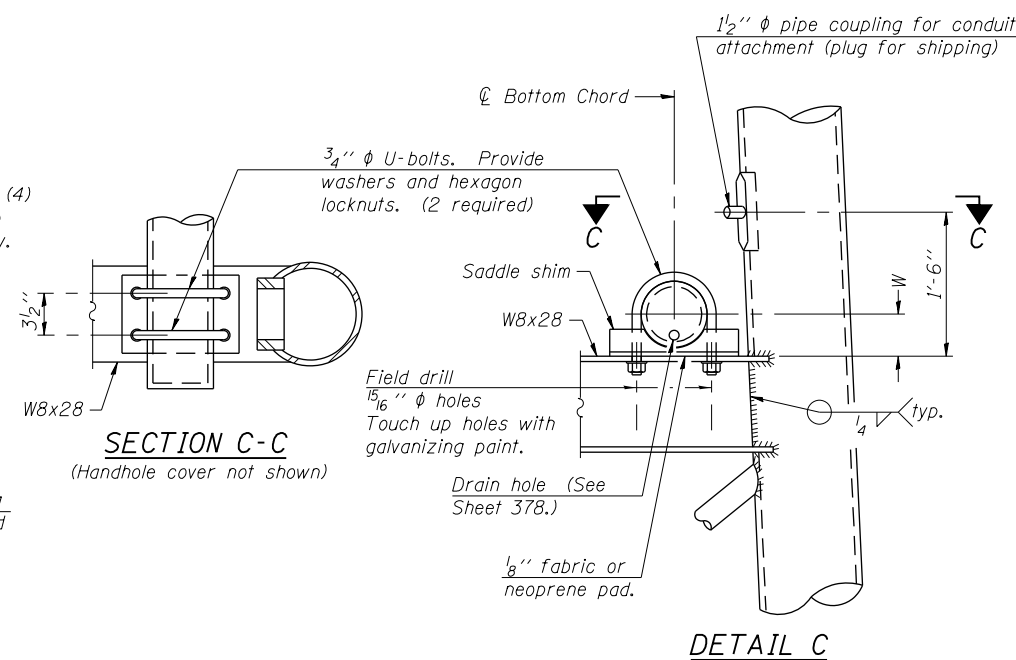
ANCHOR ROD DETAIL

Anchor rods shall conform to ASTM F1554 Grade 105 Galvanize upper 12" minimum per AASHTO M232. No welding shall be permitted on rods.

**TYPE III-A TRUSS
12" Ø PIPE SUPPORT FRAME DETAILS**

Notes:
For Type III-A Truss spans greater than 150 ft. and up to 160 ft.:

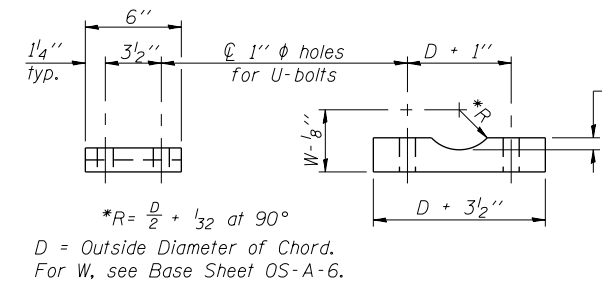
- ① 1 3/4" Ø rod, 2" Ø holes
- ② 2 3/4" edge distance
- ③ Base PL 1 5/8" x 1' - 11 1/2" x 1' - 11 1/2"



SECTION C-C

(Handhole cover not shown)

DETAIL C



SADDLE SHIM DETAIL

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

Truss Chord Nominal Dia.	a
7"	1"
8 1/2"	1 1/4"
9"	1 3/8"

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DATE - 5/10/17

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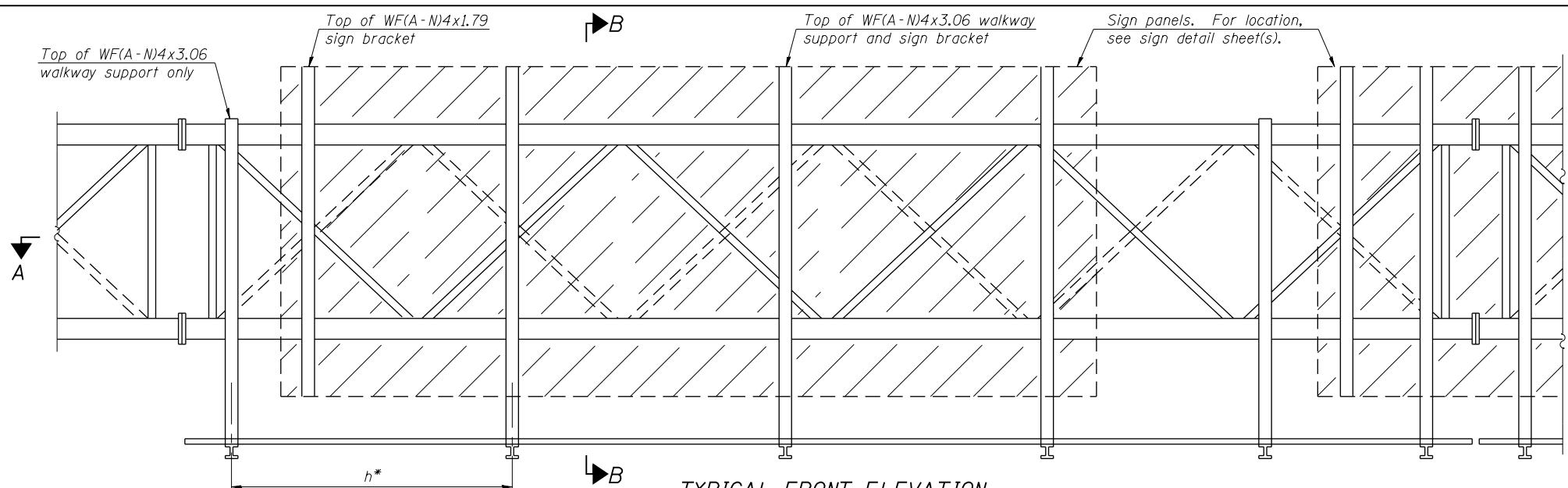
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**OVERHEAD SIGN STRUCTURES
SUPPORT FRAME FOR TYPE III-A ALUMINUM TRUSS**

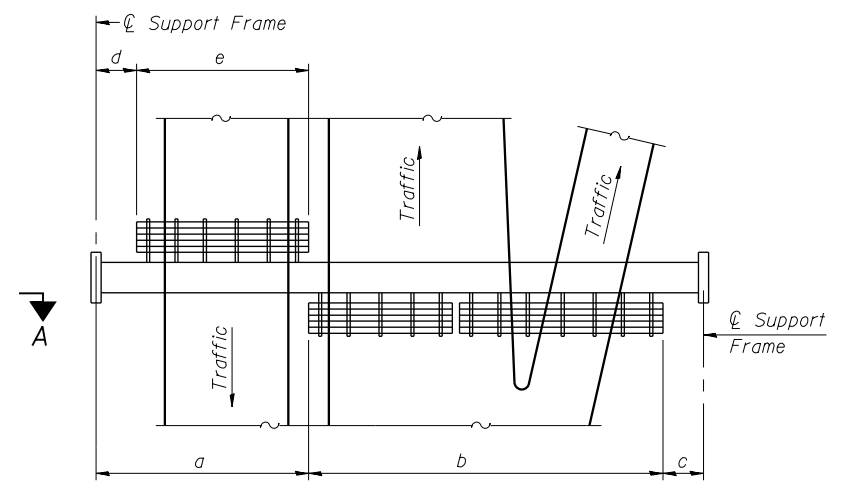
SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	382
CONTRACT NO. 60X76			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 OS-A-10.



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

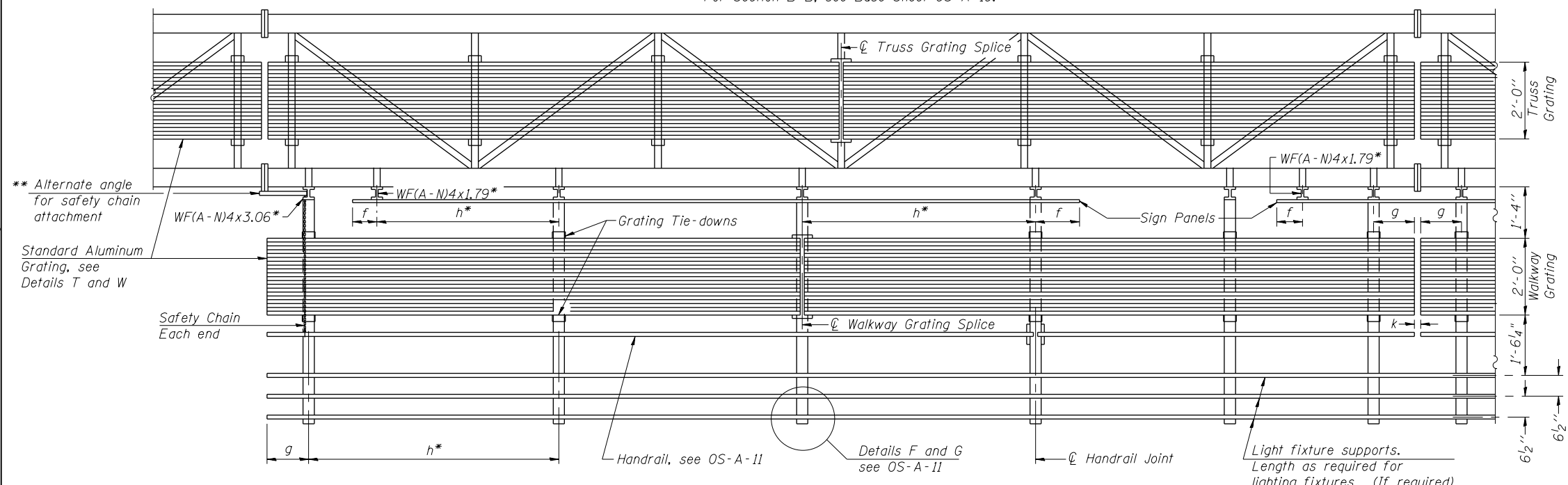
BRACKET TABLE

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
	14'-0"	3
	20'-0"	4
	26'-0"	5
	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 ϕ of nearest bracket)
 g = 12" maximum, 4" minimum (End of walkway grating to ϕ of nearest support bracket)
 h = 6'-0" maximum (ϕ to ϕ 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 OS-A-11.

For Details T and W, Section B-B and Grating Splice Details see Base Sheet OS-A-10.
 For Handrail Details see Base Sheet OS-A-11.



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.

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 60X76. The truss grating and maintenance walkway behind the sign panel will be included with this pay item.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
ISO161290R029.8-000	5148+69.87	--	--	--	--	--	--

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.



DI60X76-SHT-SIGN-STR-07.dgn
 USER NAME = v1janachione
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 5/9/2017

DESIGNED - WJC
 DRAWN - WJC
 CHECKED - TLR
 DATE - 5/10/17

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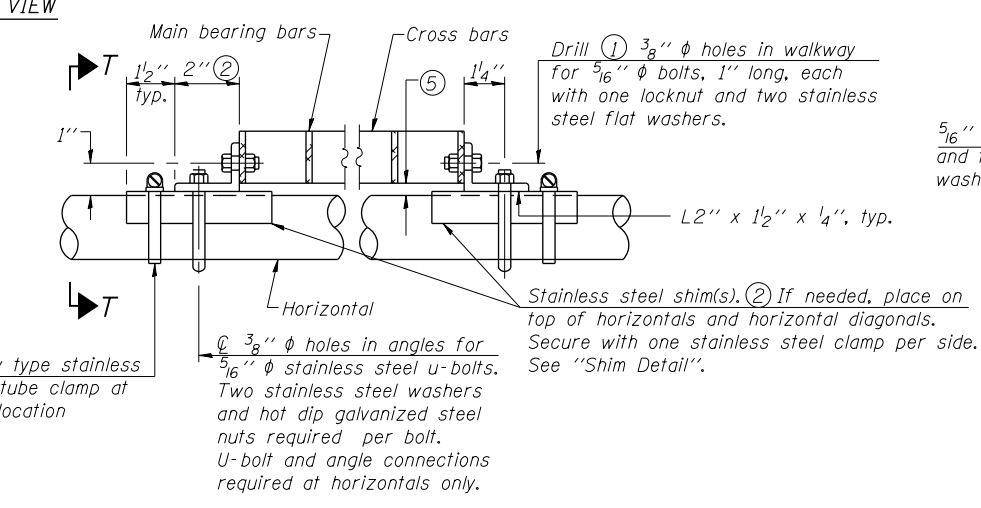
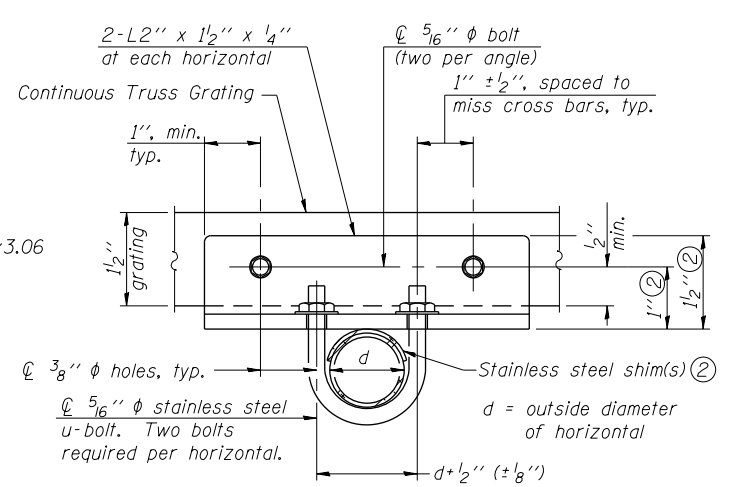
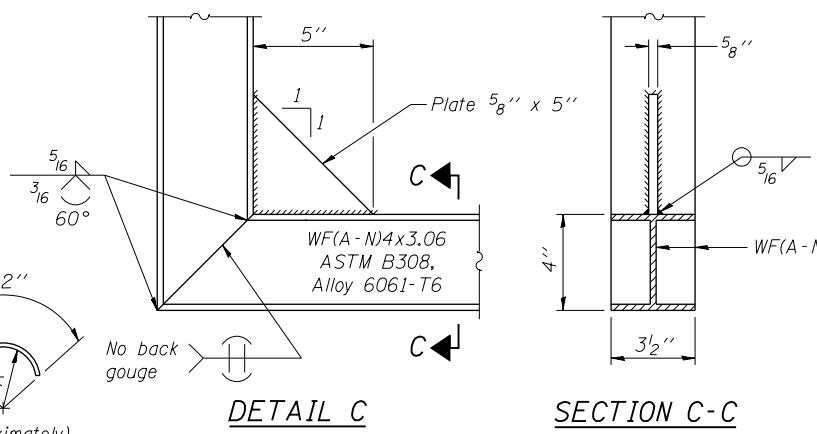
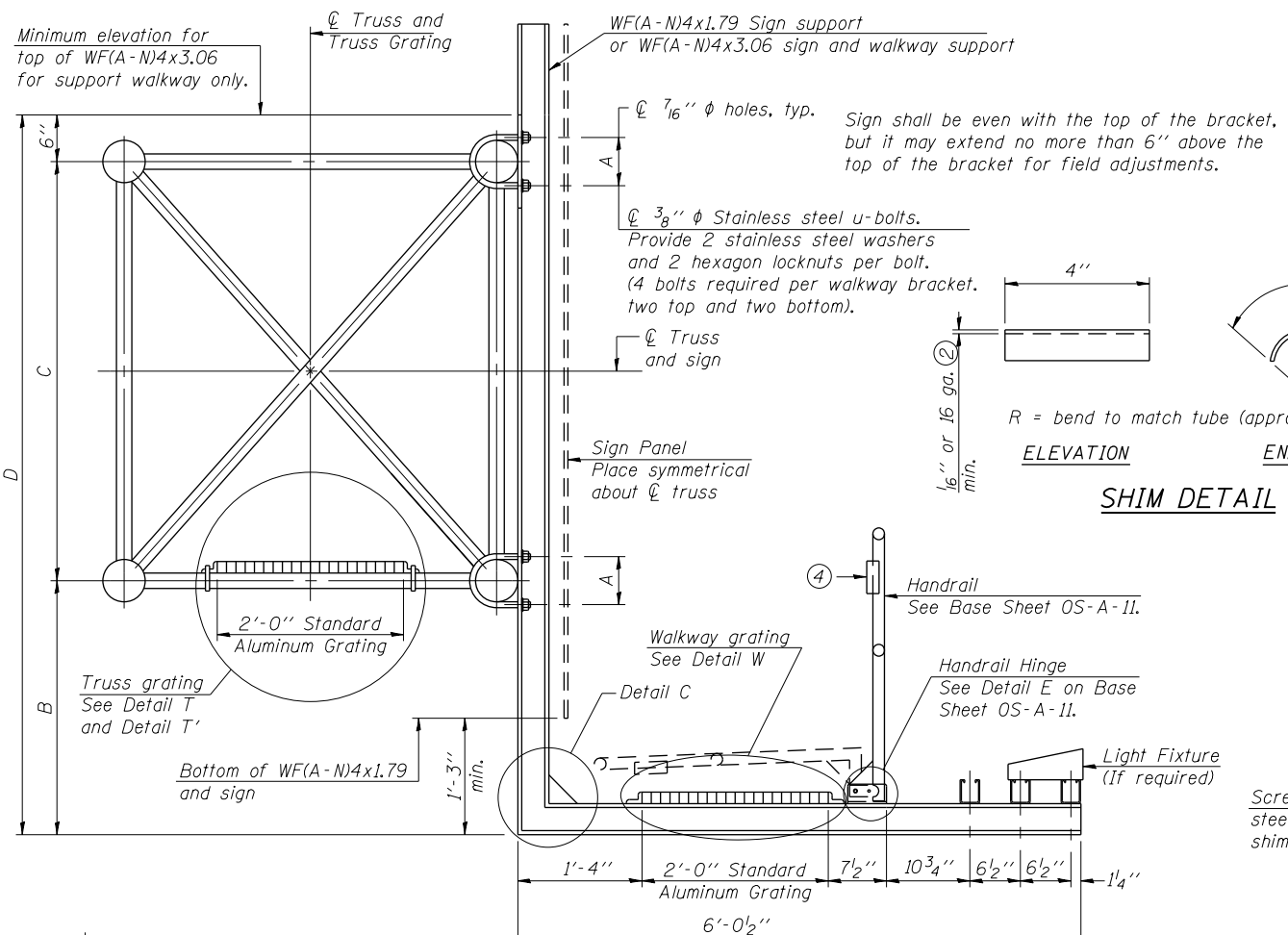
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	383
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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DETAIL T (Continuous Truss grating)

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1 1/2" on 13/16" 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:

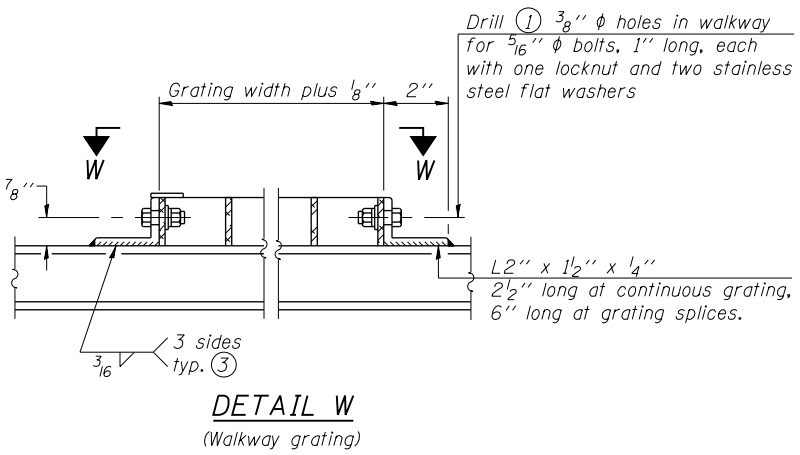
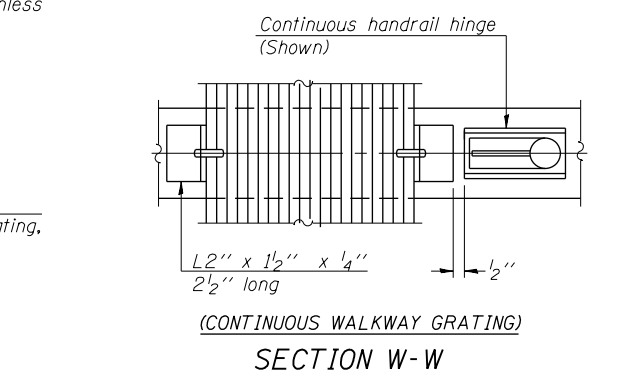
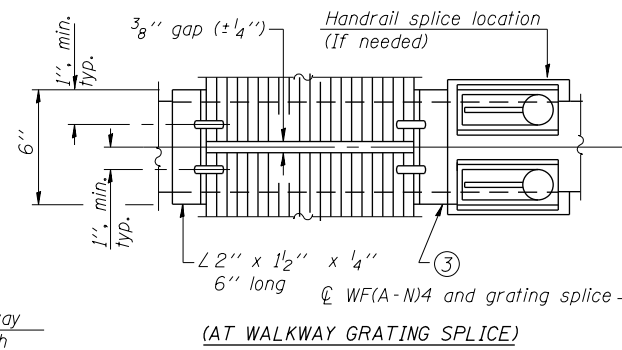
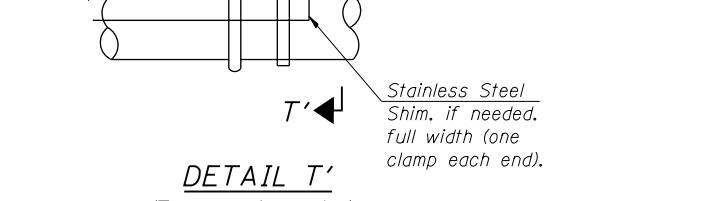
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1 1/2", spaced on 13/16" centers.

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
ISO161290R029.8-000	5148+69.87	7 1/2"	--	7'-0"	--

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 60x76. The truss grating and maintenance walkway behind the sign panel will be included with this pay item.

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- 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.
- If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.



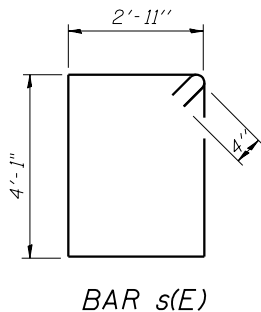
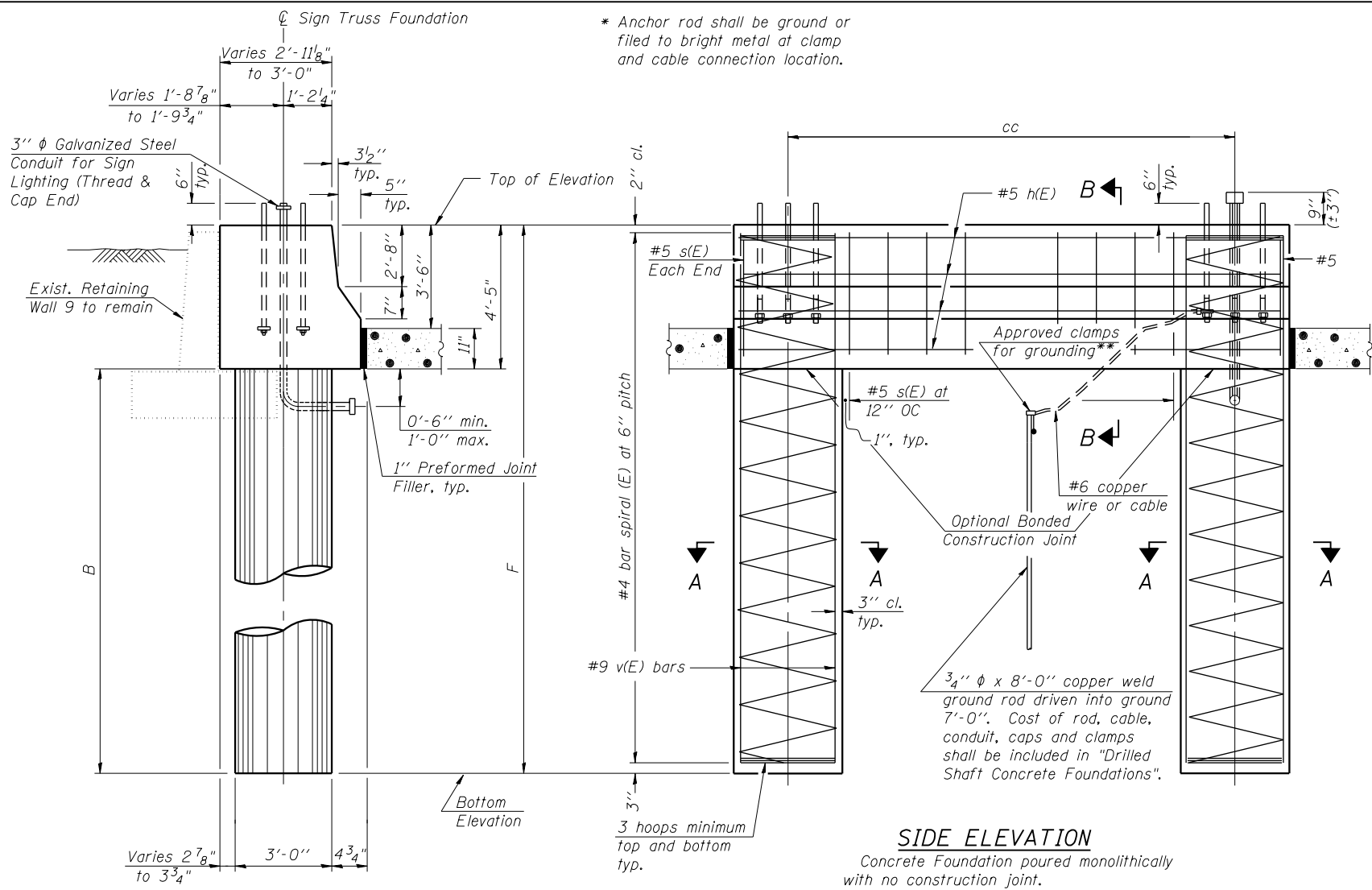
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS		F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 384
SCALE:	SHEET 8 OF 13 SHEETS	STA.	TO STA.	CONTRACT NO. 60X76		

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NOTES:
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

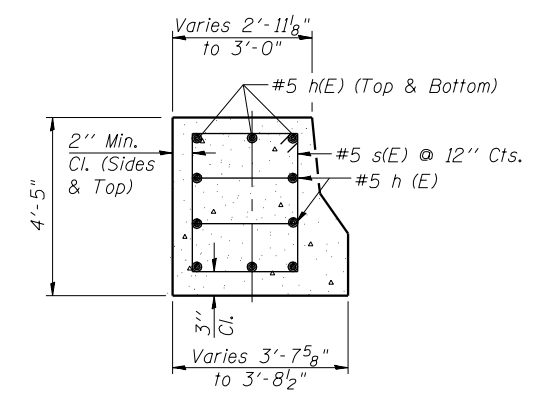
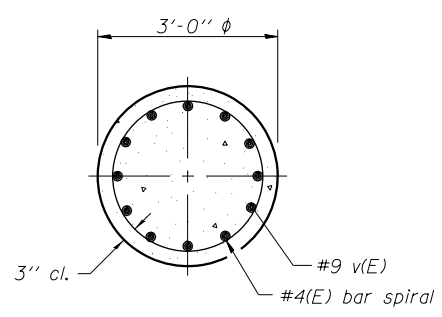
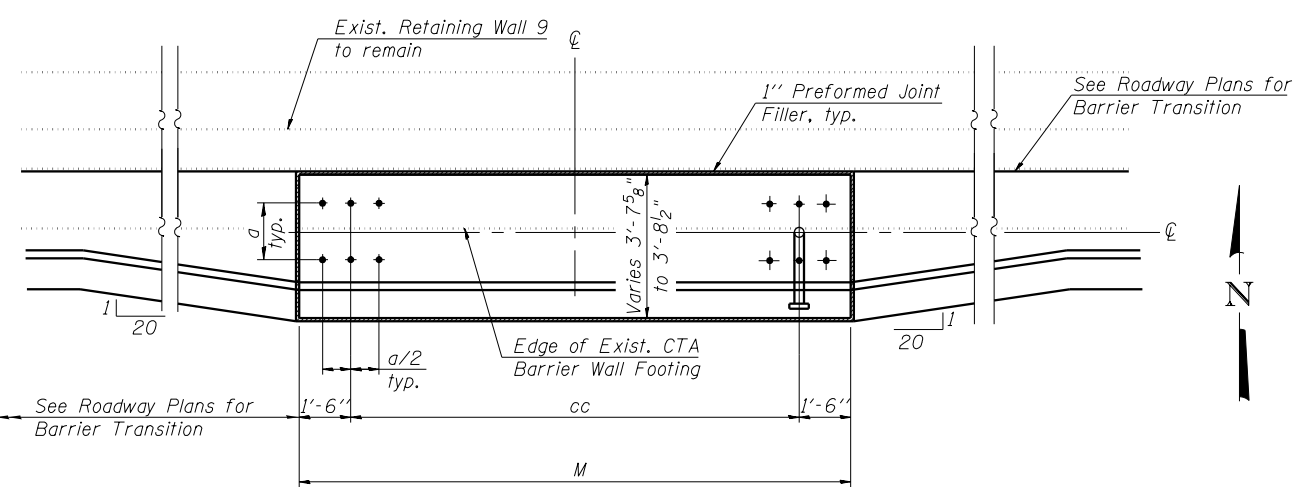
Pipe Support Frames	cc	M	a	a/2
12" ϕ	9'-0"	12'-0"	1'-6"	9"

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	9	#5	14'-8"	□
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral - see Side Elevation

END VIEW



Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161290R029.8-000	5148+69.87	579.85	547.43	28'-0"	32'-5"	-	-	-	-	21.2



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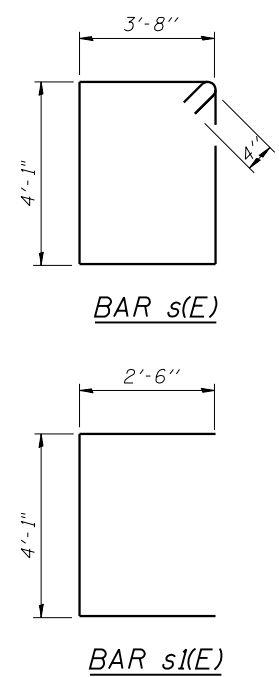
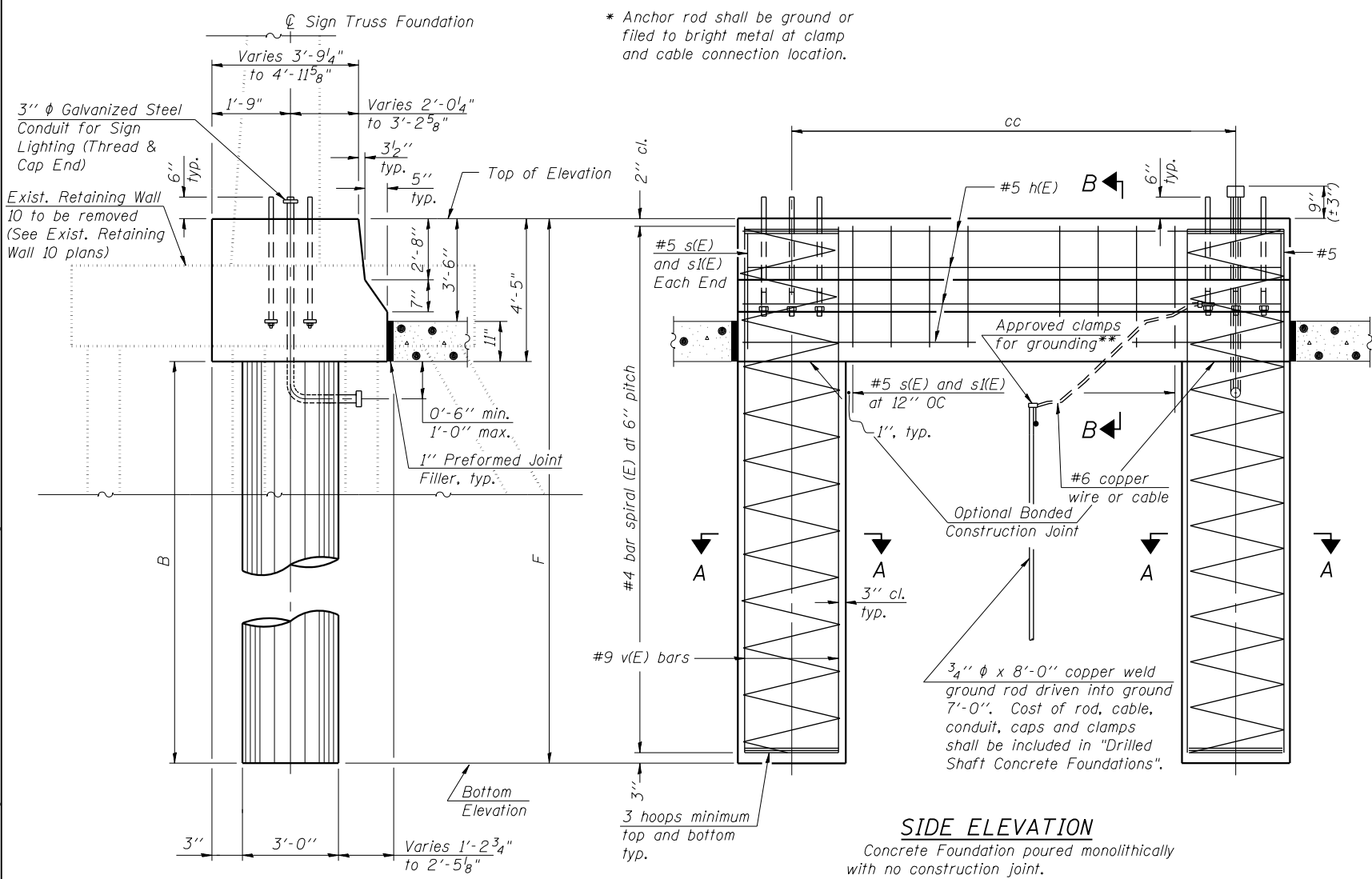
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES
 MEDIAN SUPPORT FOUNDATION DETAILS

SCALE: SHEET 9 OF 13 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 385
CONTRACT NO. 60X76				ILLINOIS FED. AID PROJECT

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NOTES:
 No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.
 Concrete shall be placed monolithically, without construction joints.
 Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.
 A normal surface finish followed by a Concrete Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

BAR LIST - EACH FOUNDATION

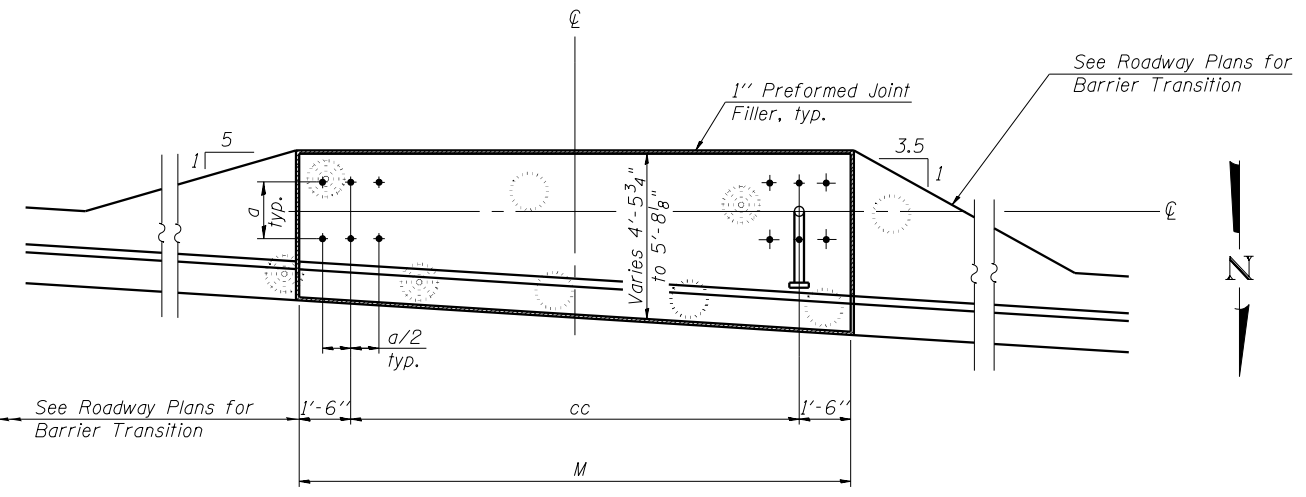
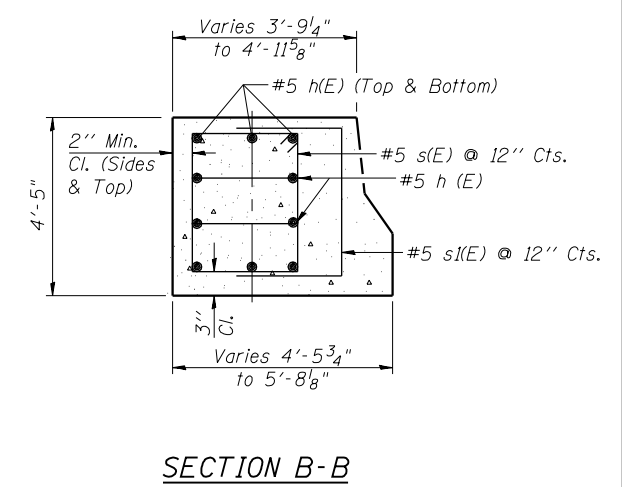
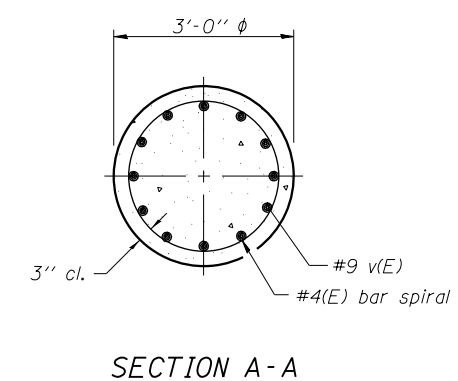
Bar	Number	Size	Length	Shape
h(E)	10	#5	M less 4"	—
s(E)	9	#5	15'-6"	□
s(I(E))	9	#5	9'-1"	C
v(E)	24	#9	F less 0'-5"	—

#4(E) bar spiral - see Side Elevation

Pipe Support Frames	cc	M	a	a/2
12" ϕ	9'-0"	12'-0"	1'-6"	9"

END VIEW

SIDE ELEVATION
 Concrete Foundation poured monolithically with no construction joint.



PLAN

LEGEND

- Existing pile to remain, for information only
- Existing pile to be removed

Structure Number	Station	Left Foundation				Right Foundation				Class DS Concrete (Cu. Yds.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F	
ISO161290R029.8-000	5148+69.87	-	-	-	-	578.13	545.71	28'-0"	32'-5"	24.0



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**OVERHEAD SIGN STRUCTURES
 MEDIAN SUPPORT FOUNDATION DETAILS**

SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 386
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

SPECIFICATIONS:

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

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

LOADING: 90 M.P.H. WIND VELOCITY

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

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

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

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

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

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

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

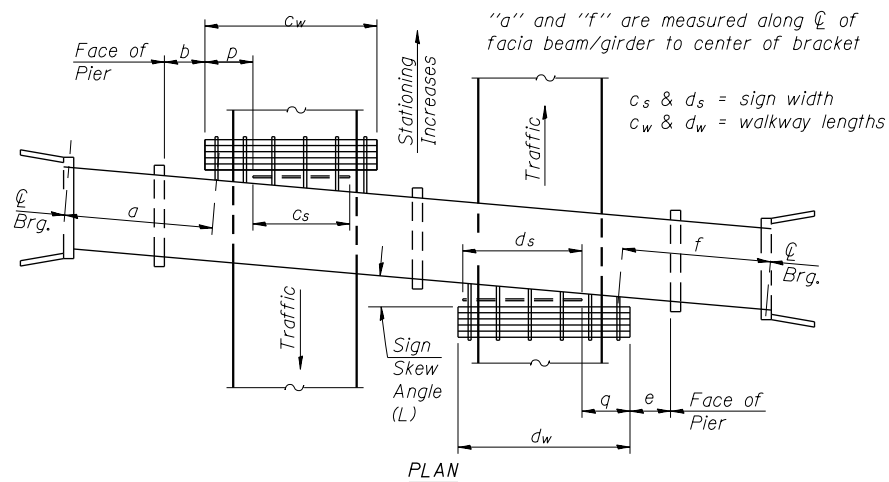
ANCHOR RODS: All-threaded rod shall conform to ASTM F1554 Grade 105, 3/4" ϕ x 12" long, each with one plate washer and locknut and be hot dip galvanized per AASHTO M232. They shall be either cast into the concrete or epoxy grouted in accordance with Section 584 of the Standard Specifications. Minimum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

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

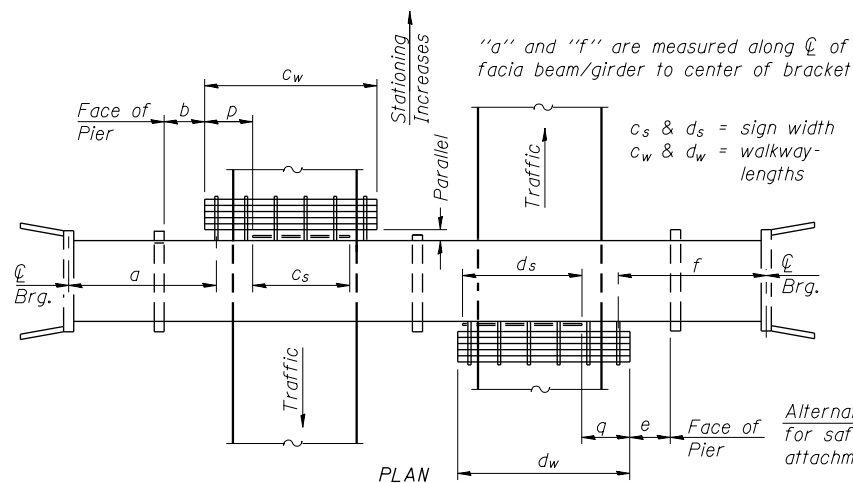
* Location is approximate. See Sheets 364 thru 373 for sign and bracket layout.

TOTAL BILL OF MATERIAL

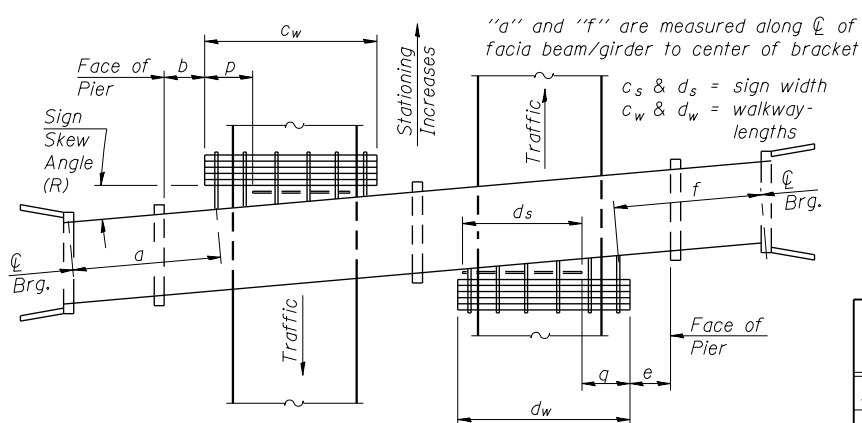
(3) OVERHEAD SIGN STRUCTURE-BRIDGE MOUNTED	Foot	177
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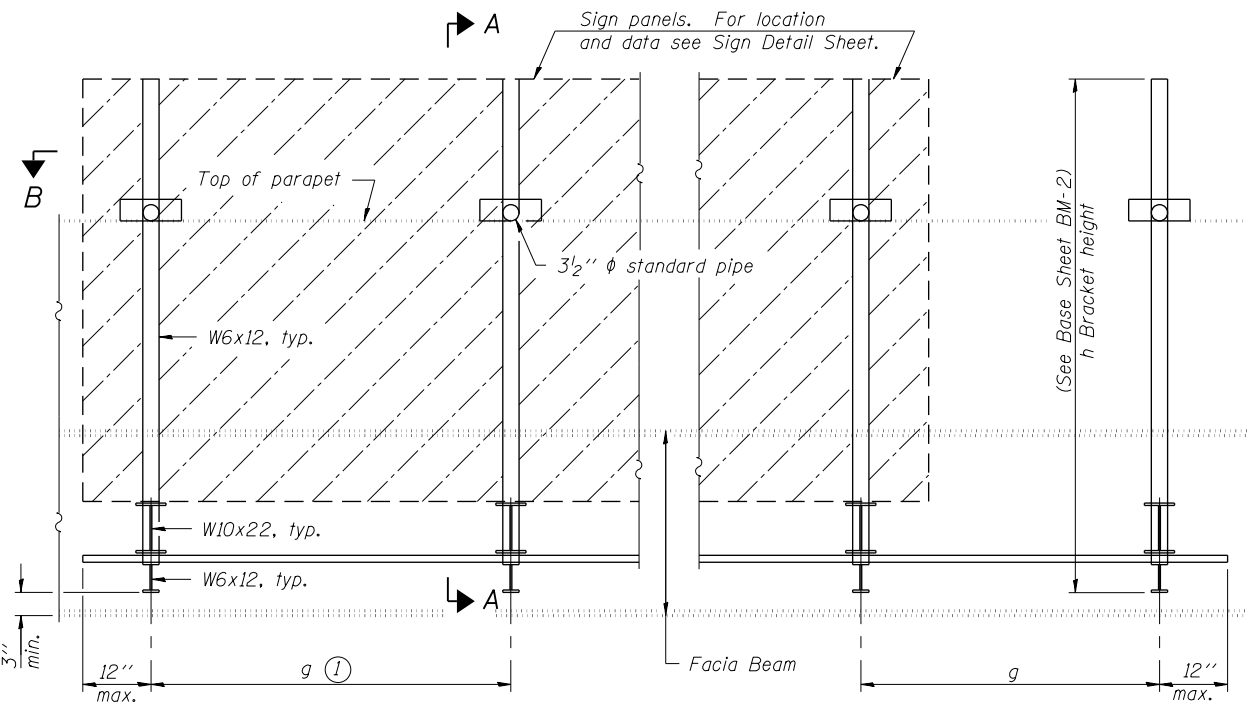
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



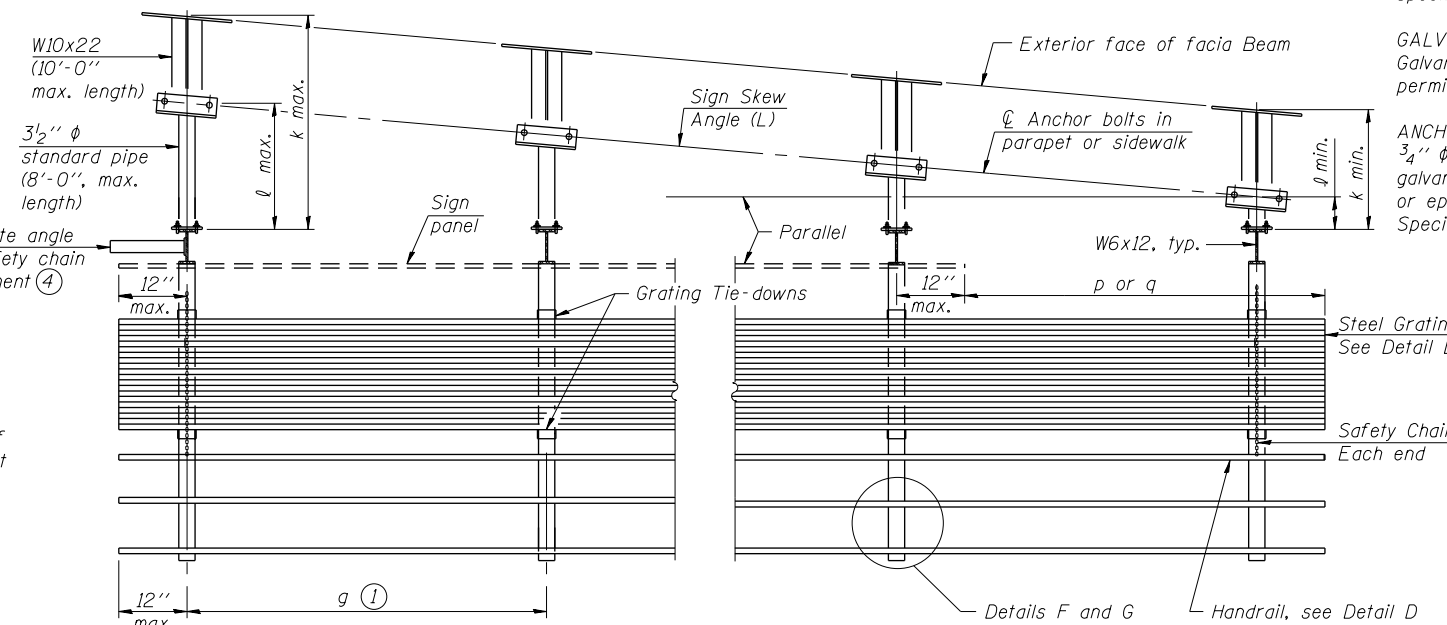
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath structure varies.)



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



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



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

Structure Number	Sign Skew Angle (L) or (R)	Bridge Structure Number	Contract Route Designation	a	b*	cs	cw	ds	dw	e	f	g	No. of Brackets (Total)	p	q	Total Grating/Hndrl. Lengths (cw + dw)
1B0161290R025.5B	0°	016-2068	FAI 290	-	34'-11 1/2"	21'-6"	-	-	-	-	-	4'-11"	5	-	-	-
1B0161290R027.0C	9° L	016-0754	FAI 290	-	46'-9"	20'-0"	-	-	-	-	-	6'-0"	4	-	-	-
1B0161290R027.8C	0°	016-2083	FAI 290	-	43'-9 1/2"	20'-0"	-	-	-	-	-	6'-0"	4	-	-	-
1B0161290R028.6C	0°	016-0098	FAI 290	-	5'-4"	25'-0"	-	-	-	-	-	5'-6"	1	-	-	-
1B0161290R029.0B	0°	016-2114	FAI 290	-	38'-4"	30'-0"	-	-	-	-	-	4'-11"	4	-	-	-
1B0161290R029.0C	0°	016-2114	FAI 290	-	57'-0"	20'-0"	-	-	-	-	-	6'-0"	4	-	-	-
1B0161290R029.3A	0°	016-2115	FAI 290	-	6'-0 1/2"	18'-6"	-	-	-	-	-	5'-6"	4	-	-	-
1B0161290R029.3C	0°	016-2115	FAI 290	-	42'-7"	20'-0"	-	-	-	-	-	6'-0"	4	-	-	-

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

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PLOT DATE = 5/9/2017

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DRAWN - WJC
CHECKED - TLR
DATE - 5/10/17

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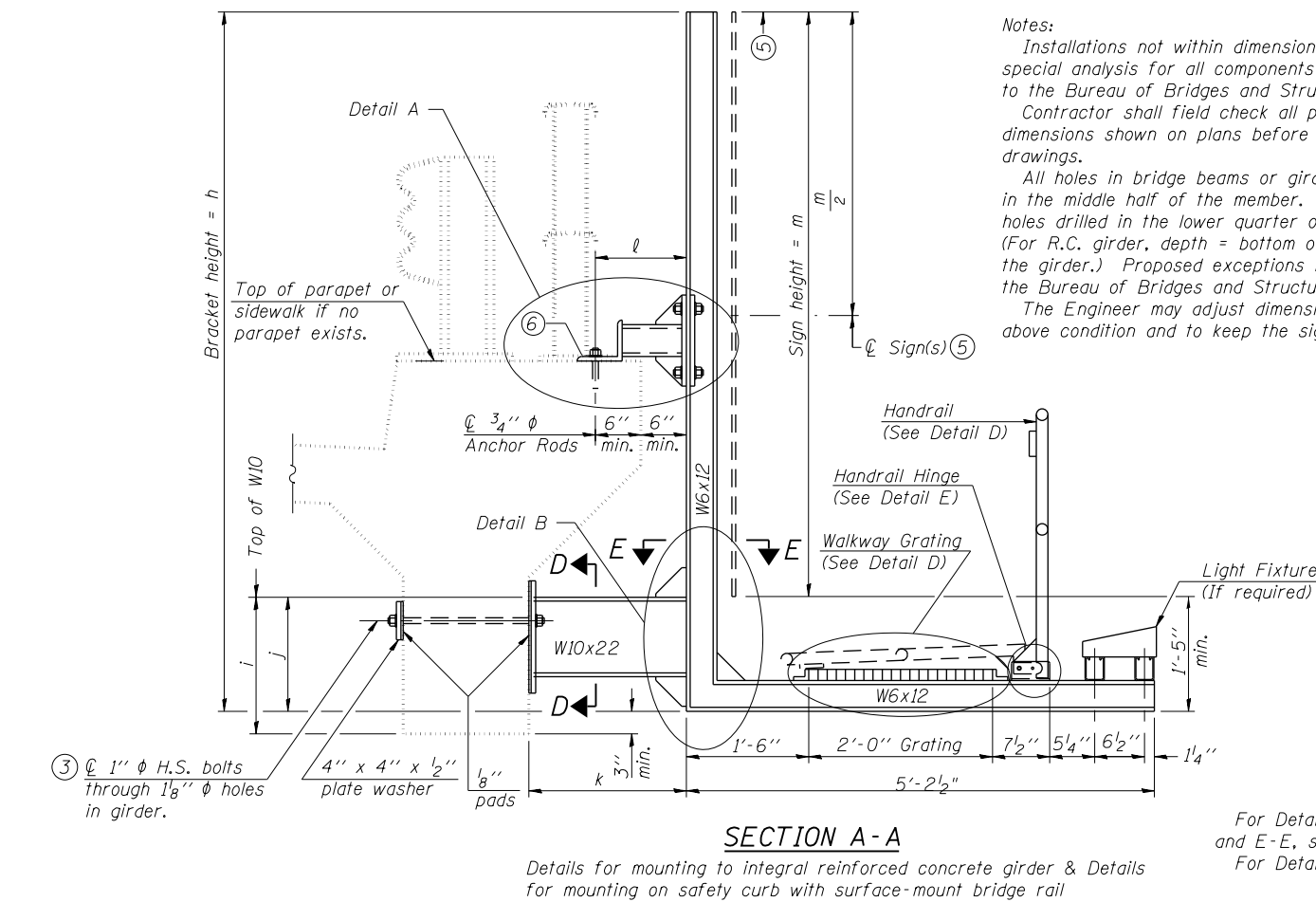
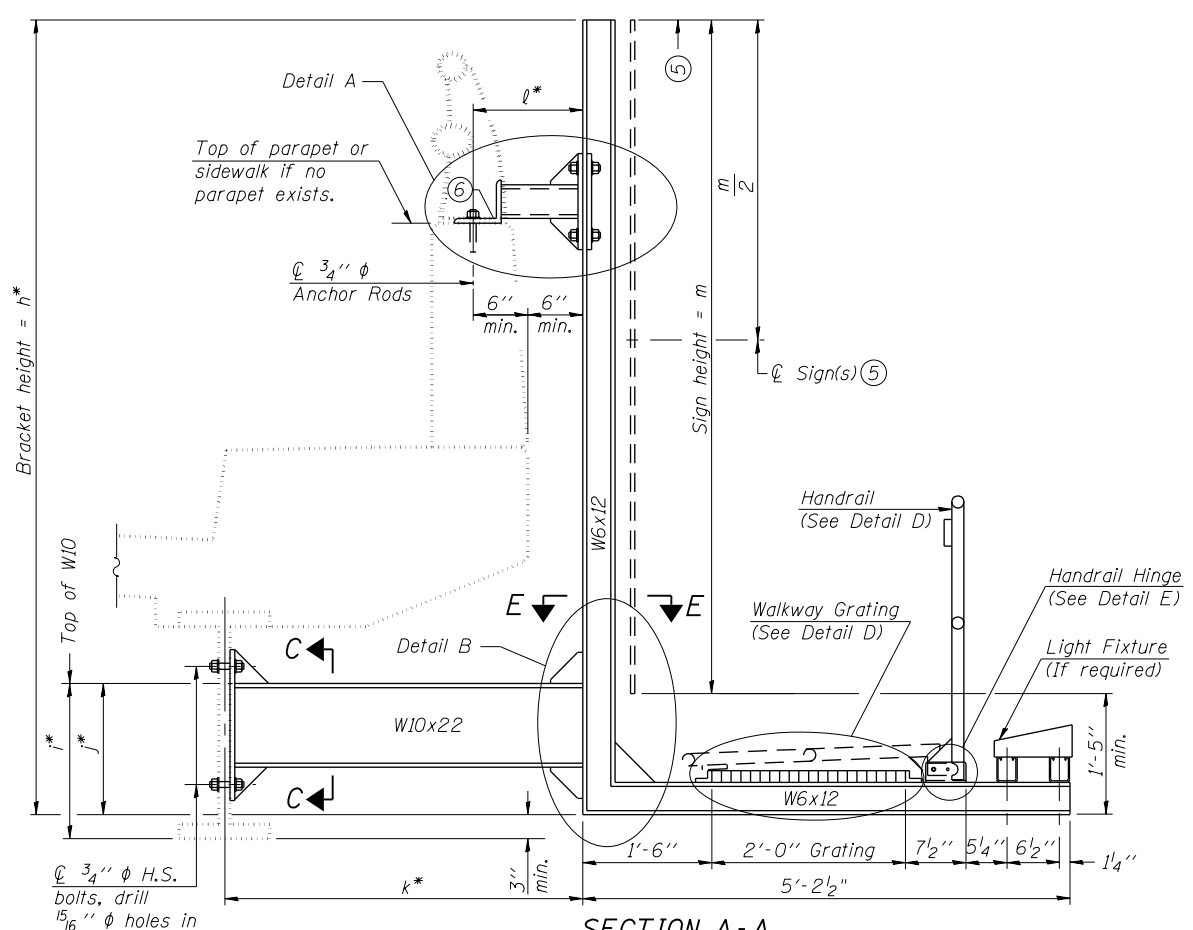
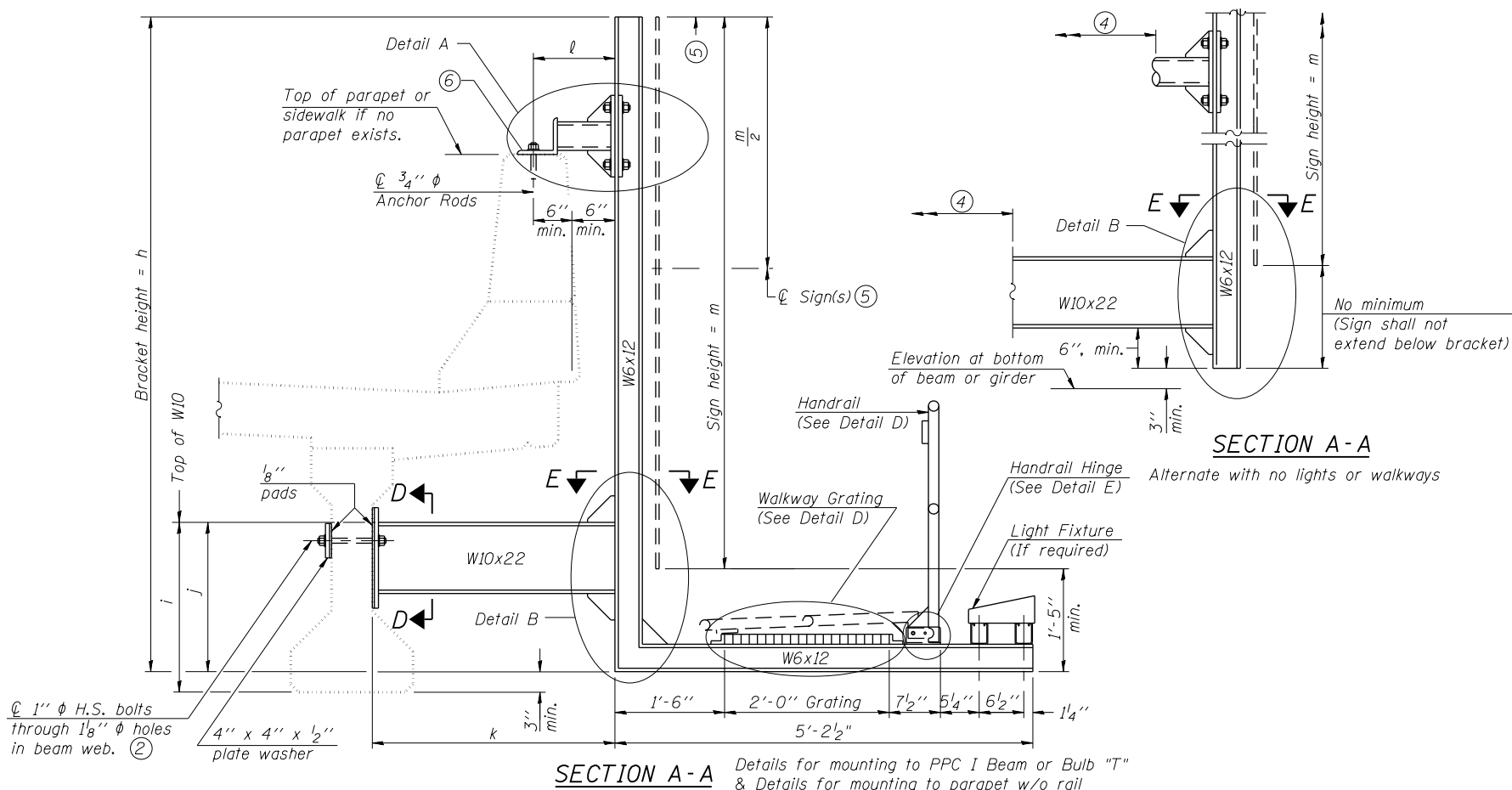
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE MOUNT SIGN STRUCTURES
GENERAL PLAN AND ELEVATION**

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	387
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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

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

Structure Number	h*	i*	j*	k* max. (10'-0" max.)	l* max. (8'-0" max.)	m (15'-0" max.)
1B0161290R025.5B	10'-8"	1'-11"	1'-8"	1'-6"	1'-1"	8'-6"
1B0161290R027.0C	15'-9"	1'-11"	1'-8"	3'-7"	1'-6"	13'-6"
1B0161290R027.8C	15'-9"	1'-11"	1'-8"	3'-7"	1'-4"	13'-6"
1B0161290R028.6C	13'-3"	1'-11"	1'-8"	3'-6"	1'-7"	11'-0"
1B0161290R029.0B	15'-3"	1'-11"	1'-8"	2'-0"	1'-1 1/2"	13'-6"
1B0161290R029.0C	8'-10"	1'-11"	1'-8"	2'-0"	1'-1 1/2"	7'-0"
1B0161290R029.3A	9'-2"	1'-11"	1'-8"	1'-6"	1'-1"	13'-6"
1B0161290R029.3C	9'-2"	1'-11"	1'-8"	1'-6"	1'-1"	7'-0"

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



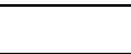
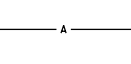
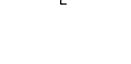
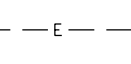
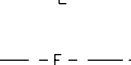
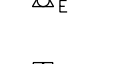
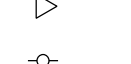
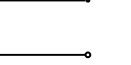
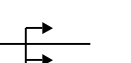
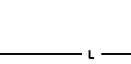
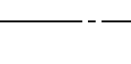
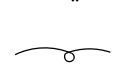
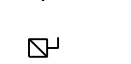
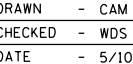
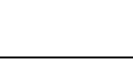
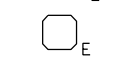
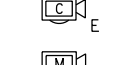
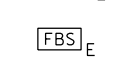
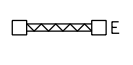
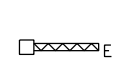
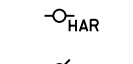
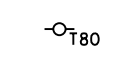
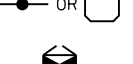
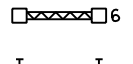
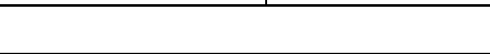
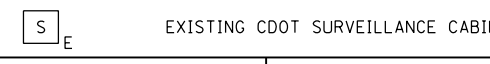
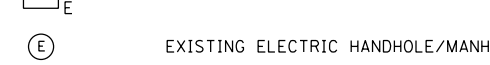
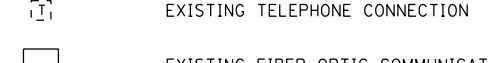
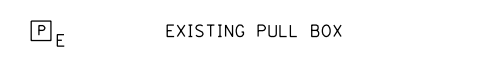
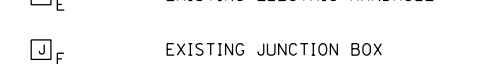
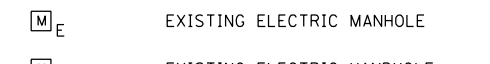
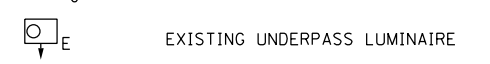
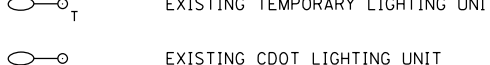
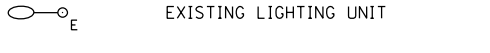
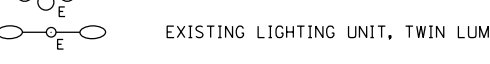
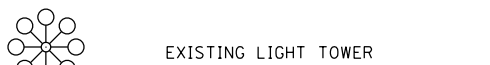
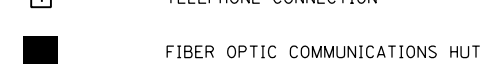
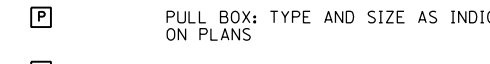
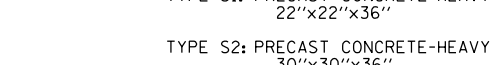
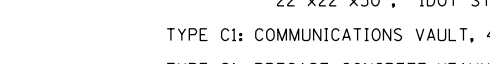
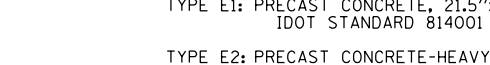
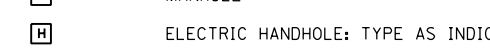
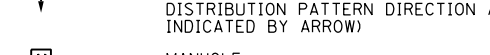
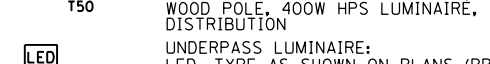
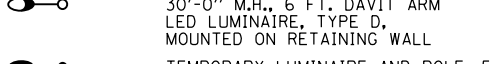
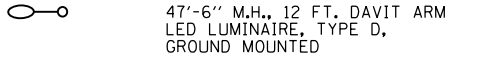
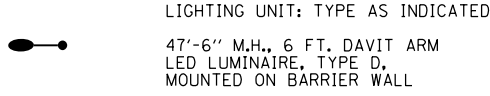
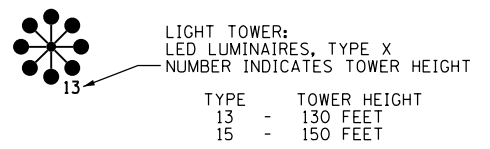
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

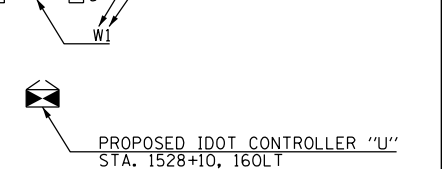
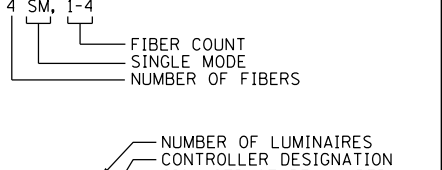
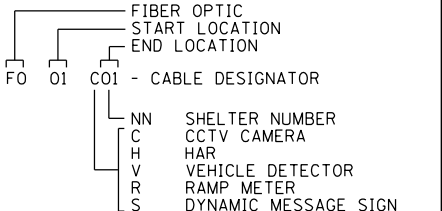
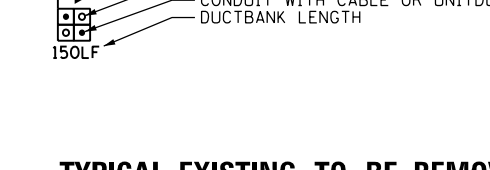
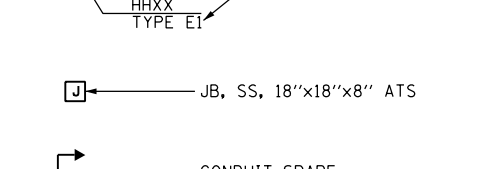
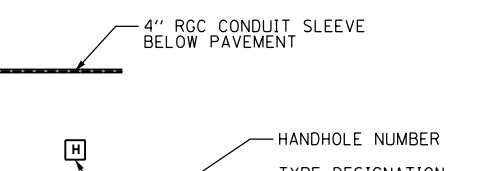
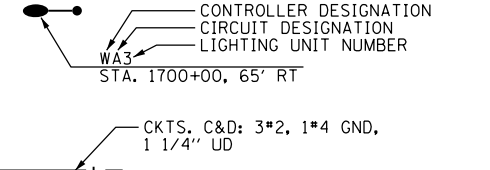
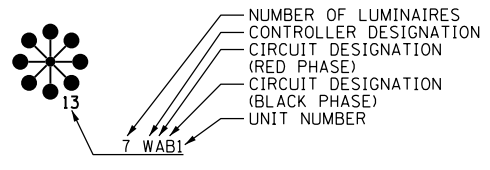
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SCALE:	SHEET 12 OF 13 SHEETS	STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

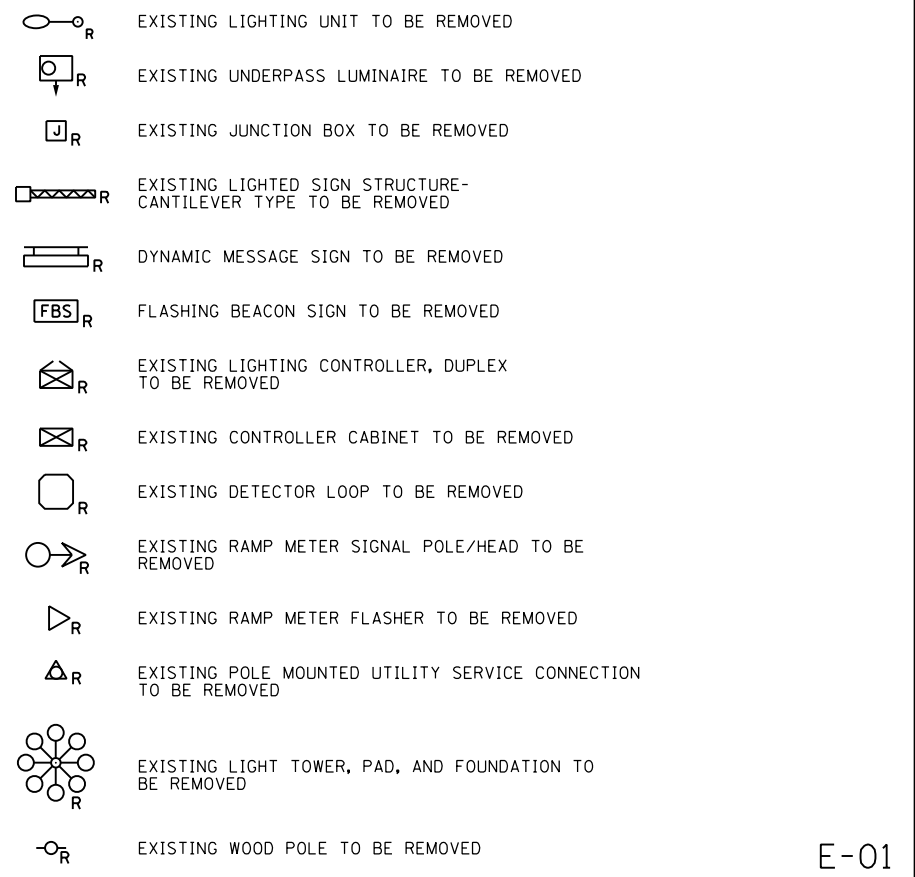
ELECTRICAL SYMBOLS FOR PROPOSED WORK



GENERAL ELECTRICAL CALLOUTS



TYPICAL EXISTING TO BE REMOVED SYMBOLS



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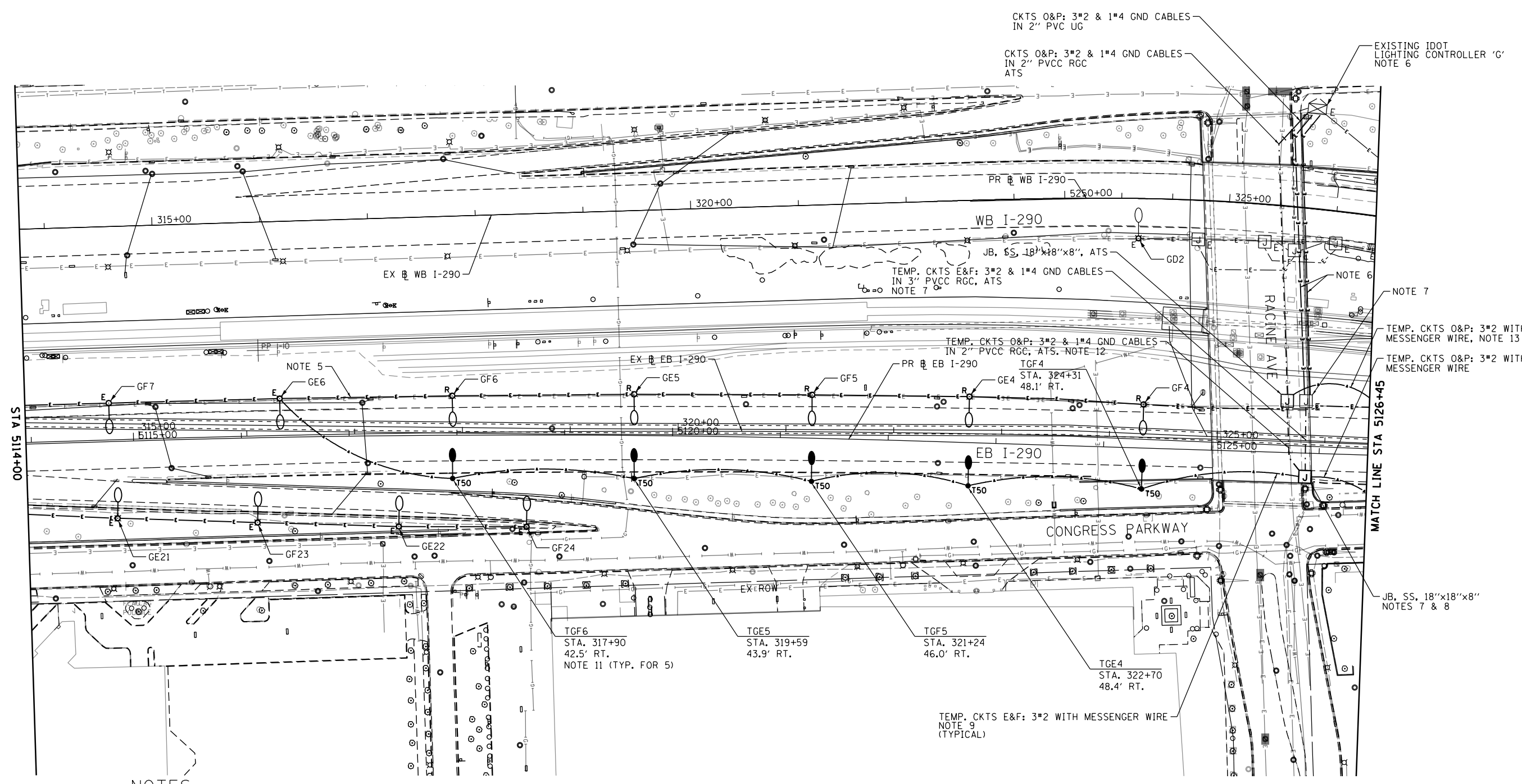
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT ELECTRICAL SYMBOLS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	390
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				



NOTES:

- SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- ALL WORK SHOWN ON THIS SHEET MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
- ALL EXISTING LIGHTING UNITS SHOWN TO BE REMOVED ON THIS SHEET SHALL BE SALVAGED TO IDOT, UNLESS NOTED OTHERWISE.
- REMOVE AND DISPOSE OF THE EXISTING CABLE BETWEEN LIGHTING UNITS GF6 & GE6. ROD AND CLEAN THE PORTIONS OF THE CONDUITS TO REMAIN.
- REMOVE EXISTING LIGHTING CIRCUIT CABLES E, F, G & H FROM THE EXISTING CONDUITS BACK TO THE LIGHTING CONTROLLER. ROD AND CLEAN THE EXISTING CONDUITS ATTACHED TO STRUCTURE FOR REUSE. EXISTING LIGHTING CIRCUITS SHALL NOT BE REMOVED UNTIL THE PERMANENT MEDIAN LIGHTING UNITS ARE INSTALLED AND READY FOR THE NEW LIGHTING CIRCUITING.
- DRILL THE EXISTING JUNCTION BOX LOCATED ON NORTH FACE OF THE SOUTH PIER OF THE RACINE BRIDGE AND ROUTE 3#2 & 1#4 GND CABLES IN A 3" PVCC RGS CONDUIT ATTACHED TO STRUCTURE TO A PROPOSED JUNCTION BOX MOUNTED ON THE SOUTH ABUTMENT TO CREATE A TEMPORARY FEED FOR CIRCUITS E&F. ONCE THE PERMANENT FEEDS FOR CIRCUITS E&F, AS SHOWN ON E-06, HAVE BEEN INSTALLED, REMOVE THE CABLES BACK TO THE NEAREST SPLICE POINT AND ROD AND CLEAN THE CONDUIT FOR FUTURE USE.
- INSTALL THE PROPOSED 18"x18"x8" JUNCTION BOX ON TOP OF THE SOUTH ABUTMENT OF THE RACINE AVE. BRIDGE.
- RUN THE AERIAL CABLE ON TOP OF THE SOUTH ABUTMENT OF THE RACINE AVE. BRIDGE FROM THE PROPOSED JUNCTION BOX TO THE FIRST TEMPORARY LIGHTING UNIT TO THE WEST OF THE BRIDGE.
- ALL STATIONS AND OFFSETS SHOWN ARE BASED OFF OF THE EX. EB I-290.
- THE FINAL LOCATIONS OF THE TEMPORARY POLES SHALL BE DETERMINED IN THE FIELD AND BE COORDINATED TO AVOID ANY CONFLICTS WITH ANY EXISTING OR PROPOSED UTILITIES AND ALL CLEAR ZONE REQUIREMENTS.
- INSTALL A TEMPORARY FEED ACROSS EB I-290 FROM THE BACK SIDE OF THE RACINE PIER TO A JUNCTION BOX MOUNTED ON THE SOUTH ABUTMENT FOR CIRCUITS O&P. REMOVE THE CABLES AND CONDUIT ONCE THE PERMANENT FEED FOR THOSE CIRCUITS SHOWN ON E-06 HAVE BEEN INSTALLED.
- INSTALL A TEMPORARY FEED FOR CIRCUITS O&P WHICH UTILIZES THE EXISTING MEDIAN LIGHTING UNITS TO STRING AERIAL CABLE FROM PRIOR TO COMPLETION OF THE WORK AT EX. RW #13.

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D160X76-SHT-Light-02
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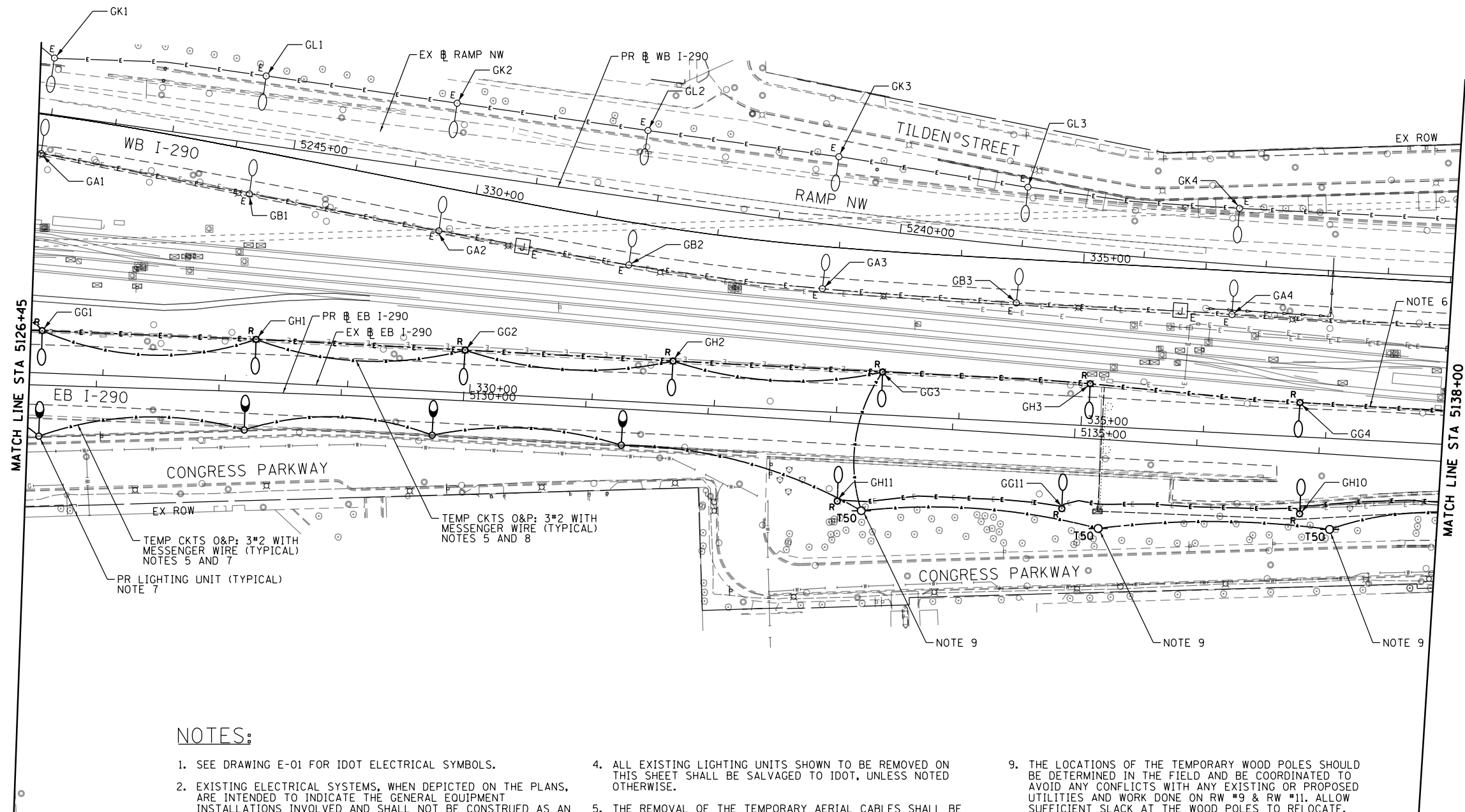
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-290
EXISTING/TEMPORARY LIGHTING PLAN
 SCALE: 1"=50'
 SHEET 2 OF 17 SHEETS STA. 5114+00 TO STA. 5126+45

F.A.I. RTE. 90/94/290	SECTION 2014-002R&B	COUNTY COOK	TOTAL SHEETS 814	SHEET NO. 391
CONTRACT NO. 60X76			ILLINOIS FED. AID PROJECT	

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NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. ALL WORK SHOWN ON THIS SHEET MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
4. ALL EXISTING LIGHTING UNITS SHOWN TO BE REMOVED ON THIS SHEET SHALL BE SALVAGED TO IDOT, UNLESS NOTED OTHERWISE.
5. THE REMOVAL OF THE TEMPORARY AERIAL CABLES SHALL BE REMOVED AND PAID FOR UNDER THE "REMOVE AERIAL CABLE" PAY ITEM.
6. THE REMOVAL OF THE EXISTING CONDUIT MOUNTED ON TOP OF THE MEDIAN BARRIER WALL WILL NOT BE PAID FOR SEPARATELY, AND WILL BE INCLUDED IN THE COST OF THE REMOVAL OF THE MEDIAN WALL.
7. PROPOSED LIGHTING UNITS SHOWN ON THIS SHEET ARE TO BE INSTALLED AFTER THE WORK ON EX. RW #13 HAS BEEN COMPLETED. THESE LIGHTING UNITS ARE TO BE UTILIZED TO SUPPORT THE TEMPORARY FEEDS TO CIRCUITS GO & GP. SEE DRAWING E-07 FOR THE FINAL DESIGN.
8. INSTALL A TEMPORARY FEED FOR CIRCUITS O&P WHICH UTILIZES THE EXISTING MEDIAN LIGHTING UNITS TO SUPPORT THE AERIAL CABLES PRIOR TO COMPLETION OF THE WORK AT EX. RW #13.
9. THE LOCATIONS OF THE TEMPORARY WOOD POLES SHOULD BE DETERMINED IN THE FIELD AND BE COORDINATED TO AVOID ANY CONFLICTS WITH ANY EXISTING OR PROPOSED UTILITIES AND WORK DONE ON RW #9 & RW #11. ALLOW SUFFICIENT SLACK AT THE WOOD POLES TO RELOCATE, AND SPLICE THE FEED. RELOCATE THE WOOD POLES AS NECESSARY.



D160X76-SHT-Light-03
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STATE OF ILLINOIS
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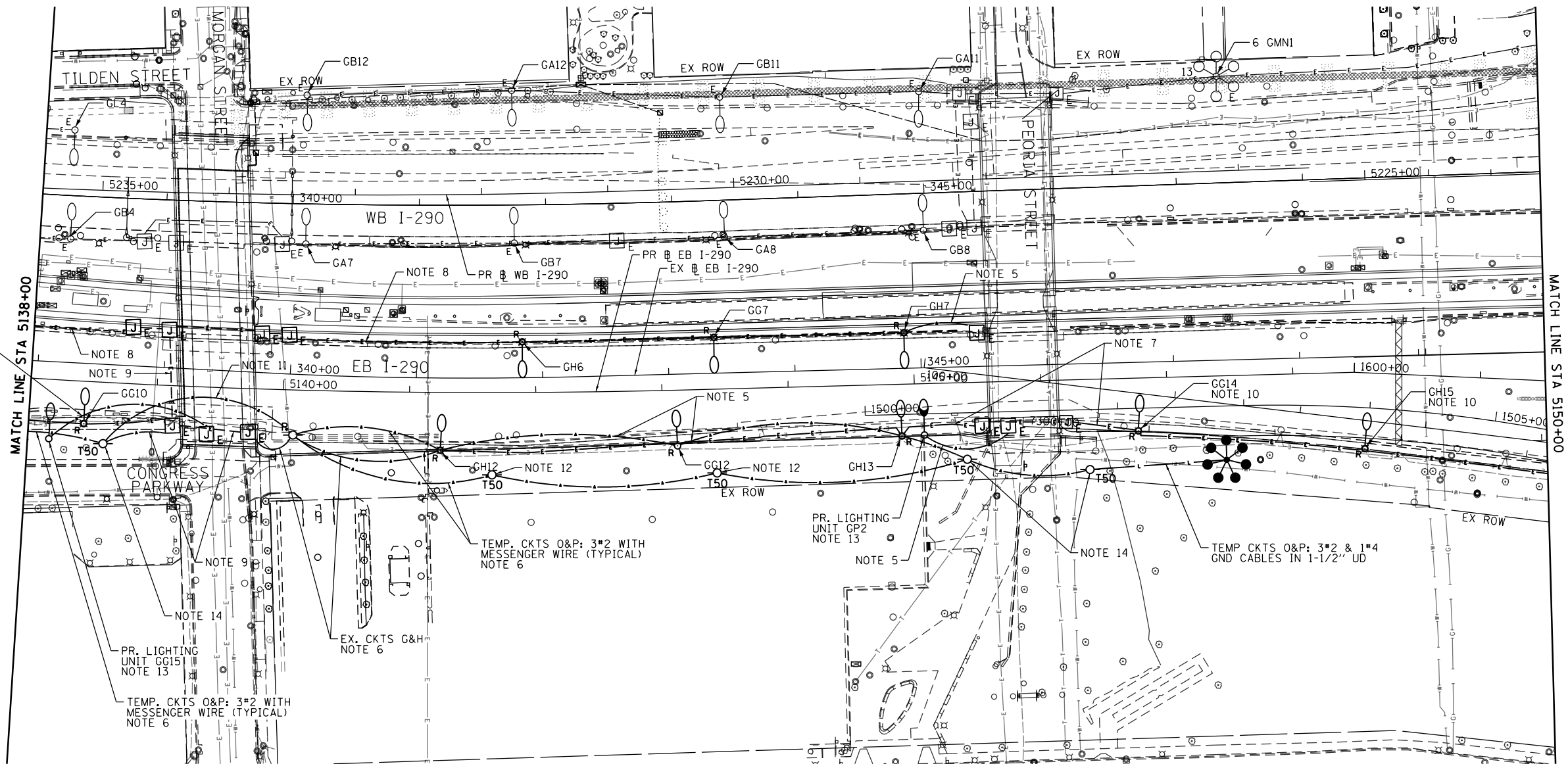
EASTBOUND I-290
EXISTING/TEMPORARY LIGHTING PLAN

SCALE: 1"=50' SHEET 3 OF 17 SHEETS STA. 5126+45 TO STA. 5138+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	392
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

E-03

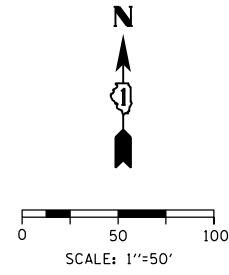
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TEMP. CKTS G&H: 3*2 WITH MESSENGER WIRE (TYPICAL) NOTES 5 AND 13

TEMP. CKTS O&P: 3*2 WITH MESSENGER WIRE (TYPICAL) NOTE 6

TEMP CKTS O&P: 3*2 & 1*4 GND CABLES IN 1-1/2" UD



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. ALL WORK SHOWN ON THIS SHEET MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
4. ALL EXISTING LIGHTING UNITS SHOWN TO BE REMOVED ON THIS SHEET SHALL BE SALVAGED TO IDOT, UNLESS NOTED OTHERWISE.
5. REMOVAL OF THE TEMPORARY AERIAL CABLES SHALL BE PAID FOR UNDER THE "REMOVE AERIAL CABLE" PAY ITEM.
6. REMOVAL OF AERIAL CABLES ATTACHED TO A TEMPORARY WOOD POLE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY ITEM.
7. REMOVE THE EXISTING CONDUITS AND RELOCATE THE EXISTING JUNCTION BOXES ATTACHED TO THE PEORIA ST. SOUTH ABUTMENT. SEE DRAWING E-17 FOR REMOVAL AND RELOCATION DETAILS.
8. THE REMOVAL OF THE EXISTING CONDUIT MOUNTED ON TOP OF THE MEDIAN BARRIER WALL WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE REMOVAL OF THE MEDIAN WALL.
9. REMOVE THE EXISTING CABLES FOR CIRCUITS G&H ONCE THE EXISTING LIGHTING UNITS ON EX. RW#10 HAVE BEEN REMOVED. ROD AND CLEAN THE EXISTING CONDUIT. CONNECT THE AERIAL CABLE TO THE CABLES FOR TEMPORARY CIRCUITS O&P LOCATED IN THE JUNCTION BOX. SEE DRAWING E-08 FOR THE FINAL INSTALLATION OF CIRCUIT O&P.
10. THE EXISTING LIGHTING UNITS MOUNTED ON EX. RW#12 SHALL NOT BE REMOVED AND SHALL REMAIN ACTIVE UNTIL HMLT'S 7 GOP1 & 7 GOP2, SHOWN ON E-08 AND E-09, HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY THE ENGINEER.
11. RUN THE AERIAL CABLE ON TOP OF THE SOUTH ABUTMENT OF THE MORGAN ST. BRIDGE BETWEEN THE TEMPORARY WOOD POLES.
12. THE TEMPORARY WOOD POLES SHALL NOT BE INSTALLED UNTIL WORK ON EX. RW #10 HAS BEGUN. THE EXISTING LIGHTING UNITS MOUNTED ON EX. RW #10 SHALL BE UTILIZED UNTIL THE TIME THEY NEED TO BE REMOVED. THE LOCATIONS OF THE WOOD POLES SHALL BE DETERMINED IN THE FIELD WITHIN THE WORK ZONE LIMITS. THESE WOOD POLES SHALL BE RELOCATED AS NECESSARY TO FACILITATE WORK ON EX. RW #10 AND TO MINIMIZE THE IMPACT ON UIC PARKING LOT #9. THESE POLES SHALL BE REMOVED ONCE THE PERMANENT FEED FOR CIRCUITS O&P SHOWN ON E-08 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY THE ENGINEER.
13. PROPOSED LIGHTING UNITS SHOWN ON THIS SHEET SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE EB I-290 MEDIAN WALL. STRING 3*2 AERIAL CABLE FROM THOSE UNITS TO PROVIDE A TEMPORARY CONNECTION TO THE EXISTING UNDERPASS LIGHTING SYSTEM TO REMAIN BEFORE THE MEDIAN BARRIER WALL IS REMOVED.
14. THE LOCATIONS OF THE TEMPORARY WOOD POLES SHALL BE DETERMINED IN THE FIELD AND BE COORDINATED TO AVOID ANY CONFLICTS WITH EXISTING OR PROPOSED UTILITIES. RELOCATE THE WOOD POLES AS NECESSARY. SEE IDOT STANDARD BE-801 FOR TEMPORARY AERIAL CABLE CONNECTION DOWN A WOOD POLE.

E-04



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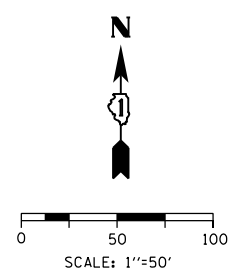
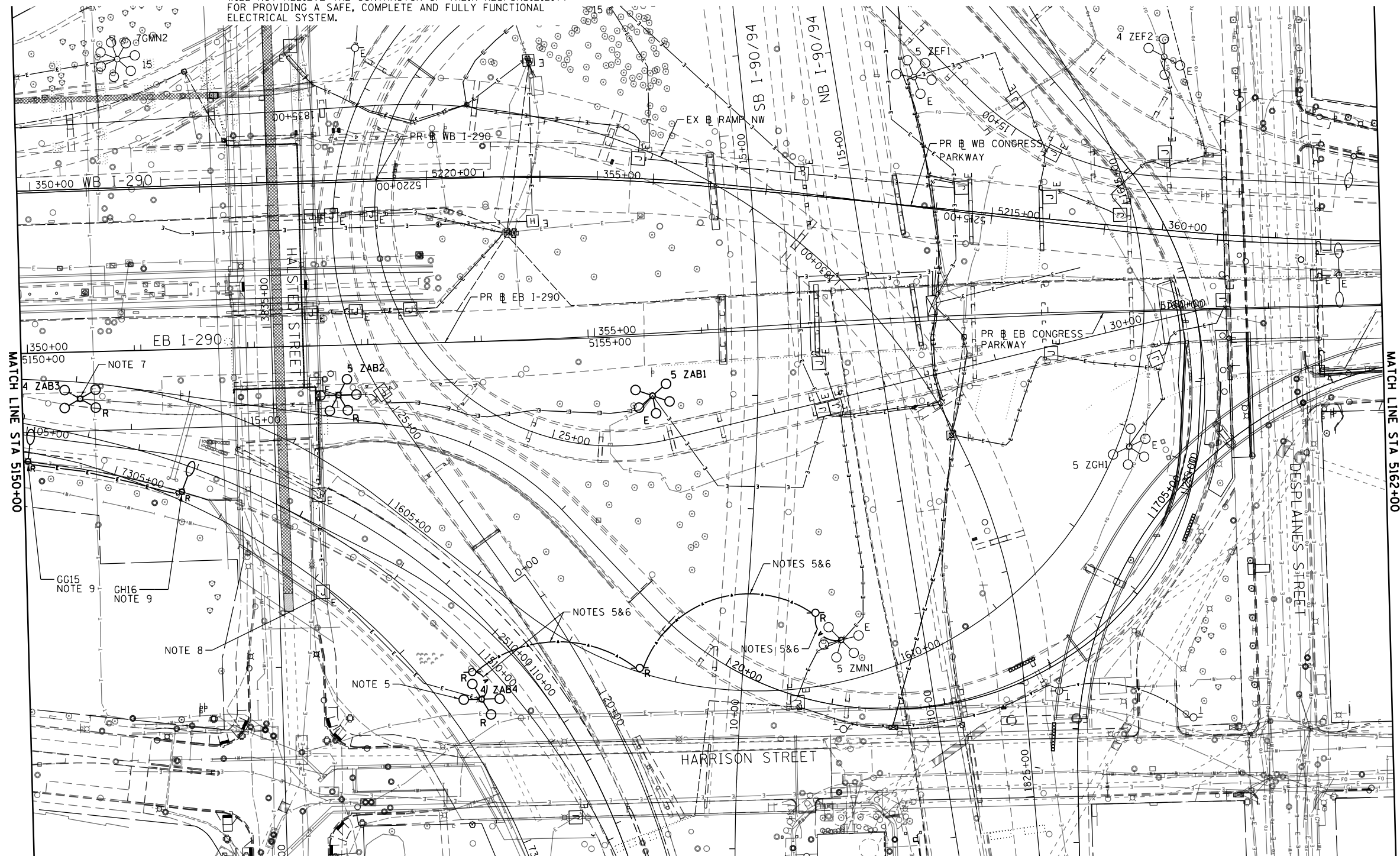
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-290	
EXISTING/TEMPORARY LIGHTING PLAN	
SCALE: 1"=50'	SHEET 4 OF 17 SHEETS
STA. 5138+00	TO STA. 5150+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	393
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. ALL WORK SHOWN ON THIS SHEET MUST BE COORDINATED WITH THIS CONTRACT'S CONSTRUCTION WORK AND STAGING.
4. ALL EXISTING LIGHTING UNITS SHOWN TO BE REMOVED ON THIS SHEET SHALL BE SALVAGED TO IDOT, UNLESS NOTED OTHERWISE.
5. EXISTING LIGHT TOWER 4 ZAB4 AND ITS TEMPORARY FEEDS SHALL NOT BE REMOVED UNTIL THE PROPOSED HMLT 4 ZAB4 SHOWN ON E-09 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY THE ENGINEER.
6. REMOVAL OF AERIAL CABLES ATTACHED TO TEMPORARY WOOD POLE WILL NOT BE PAID FOR SEPARATELY AND SHALL BE INCLUDED IN THE COST OF "REMOVE TEMPORARY WOOD POLE" PAY ITEM.
7. EXISTING LIGHT TOWER 4 ZAB3 SHALL NOT BE REMOVED UNTIL THE PROPOSED HMLT 7 GOP2 SHOWN ON E-09 HAS BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY THE ENGINEER.
8. REMOVE THE CONDUIT ROUTED VERTICALLY FROM THE JUNCTION BOX DOWN INTO GRADE ONCE HIGH MAST LIGHT TOWER 4 ZAB4 IS REMOVED.
9. THE EXISTING LIGHTING UNITS MOUNTED ON EX. RW#12 SHALL NOT BE REMOVED AND SHALL REMAIN ACTIVE UNTIL THE HMLT'S 7 GOP1 & 7 GOP2 SHOWN ON E-08 & E-09 HAVE BEEN INSTALLED, ENERGIZED, TESTED, AND APPROVED BY THE ENGINEER.



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E-05



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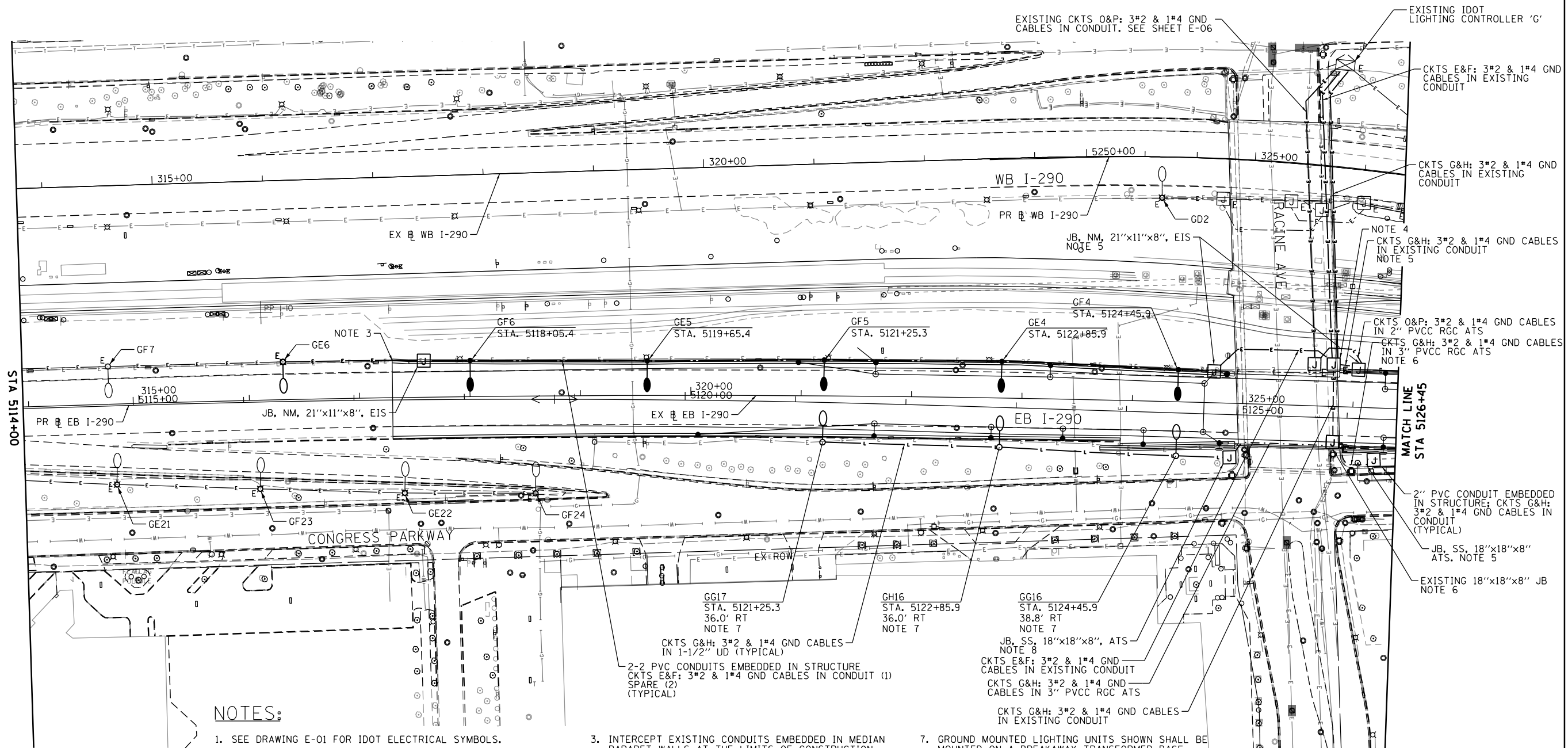
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DATE - 5/10/17	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EASTBOUND I-290
 EXISTING/TEMPORARY LIGHTING PLAN
 SCALE: 1"=50'
 SHEET 5 OF 17 SHEETS
 STA. 5150+00 TO STA. 5162+00

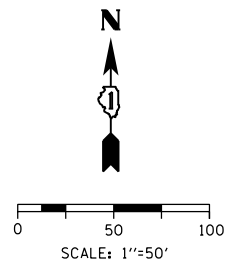
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90/94/290	2014-002R&B	COOK	814	394
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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NOTES:

- SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- INTERCEPT EXISTING CONDUITS EMBEDDED IN MEDIAN PARAPET WALLS AT THE LIMITS OF CONSTRUCTION WITH A PROPOSED EMBEDDED JUNCTION BOX. ROUTE 3#2 & 1#4 GND CABLES FROM PROPOSED LIGHTING UNIT GF6 TO THE EXISTING LIGHTING UNIT GE6 THROUGH THE EMBEDDED CONDUIT AND JUNCTION BOX AND SPLICE THE CABLES TO THE EXISTING LIGHTING CIRCUITS LOCATED WITHIN GEG6.
- CONNECT THE PROPOSED CABLES FOR CIRCUITS E&F TO THE EXISTING UNDERPASS LIGHTING SYSTEM IN THE EXISTING JUNCTION BOX MOUNTED ON PIER.
- SEE DRAWING E-15 FOR CONDUIT ROUTING AT RACINE AVE. PIER STRUCTURE.
- ROUTE A 3" PVCC RGC CONDUIT FROM THE EXISTING JUNCTION BOX INSTALLED ON TOP OF THE RACINE AVE. SOUTH ABUTMENT TO A PROPOSED JUNCTION BOX MOUNTED ON THE EXISTING RW#13 PARAPET WALL. THIS CONDUIT SHALL BE INSTALLED FLUSH AGAINST THE SOUTHEAST WINGWALL. USE EXPANSION & DEFLECTION FITTINGS AT JOINTS AS NECESSARY.



E-06



D160X76-SHT-Light-06
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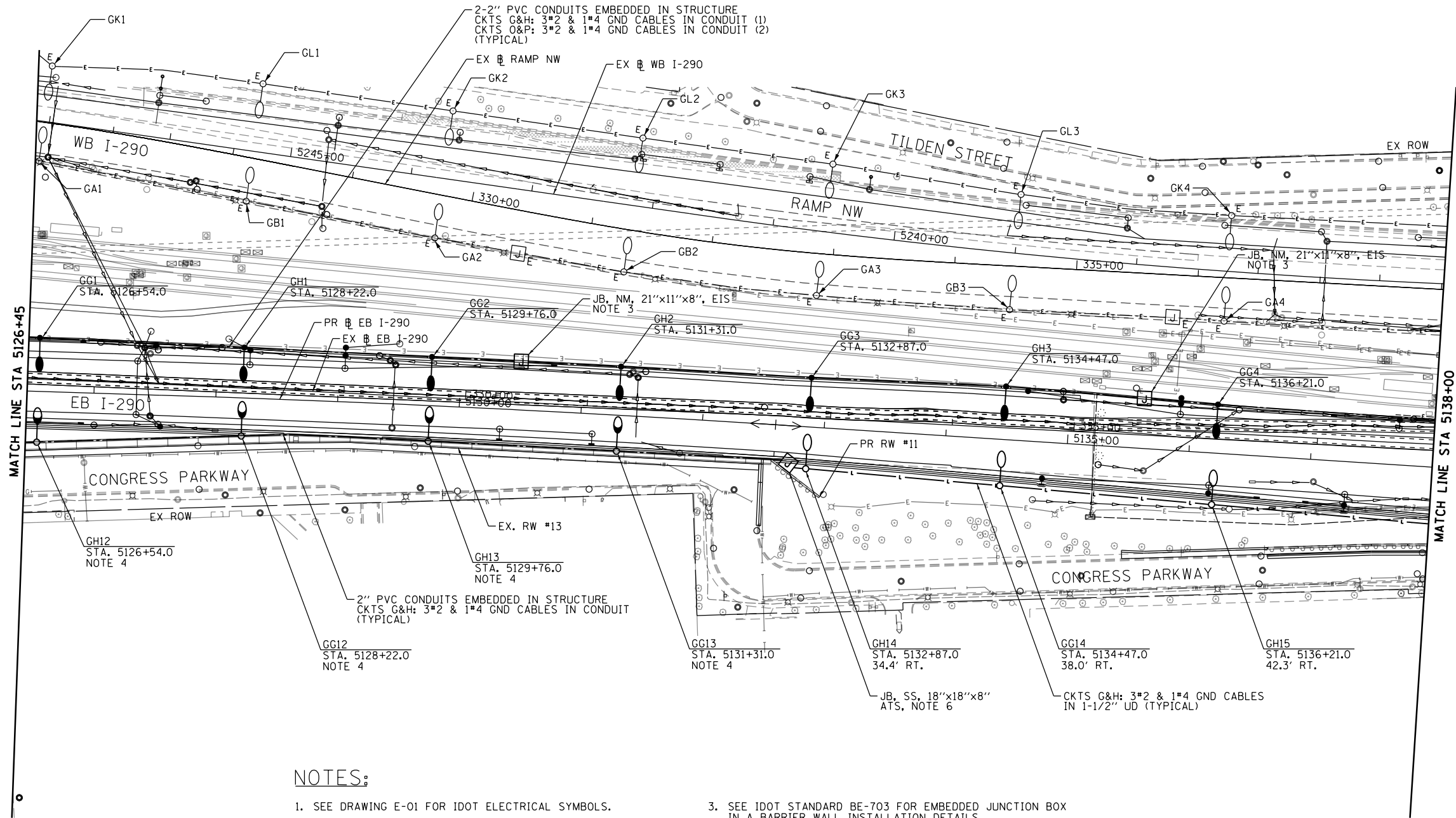
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-290
PROPOSED LIGHTING PLAN

SCALE: 1"=50' SHEET 6 OF 17 SHEETS STA. 5114+00 TO STA. 5126+45

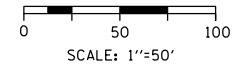
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90/94/290	2014-002R&B	COOK	814	395
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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NOTES:

- SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
- EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
- SEE IDOT STANDARD BE-703 FOR EMBEDDED JUNCTION BOX IN A BARRIER WALL INSTALLATION DETAILS.
- LIGHT POLES TO BE MOUNTED ON TOP OF EXISTING RETAINING WALL. SEE STRUCTURAL PLANS FOR FOUNDATION DETAILS.
- ALL STATIONS AND OFFSETS SHOWN ARE BASED ON THE PR EB I-290 \varnothing .
- INSTALL THE JUNCTION BOX ON THE ROADWAY SIDE OF RW #11. ROUTE A 3" PVCC RGC CONDUIT DOWN THE FRONT FACE OF THE RETAINING WALL INTO GRADE. PULL 3*2 AND 1*4 GND CABLES IN 1-1/2" UNIT DUCT THROUGH THE CONDUITS AND CONNECT THEM TO THE CABLES FOR CIRCUITS G&H IN THE JUNCTION BOX.



E-07



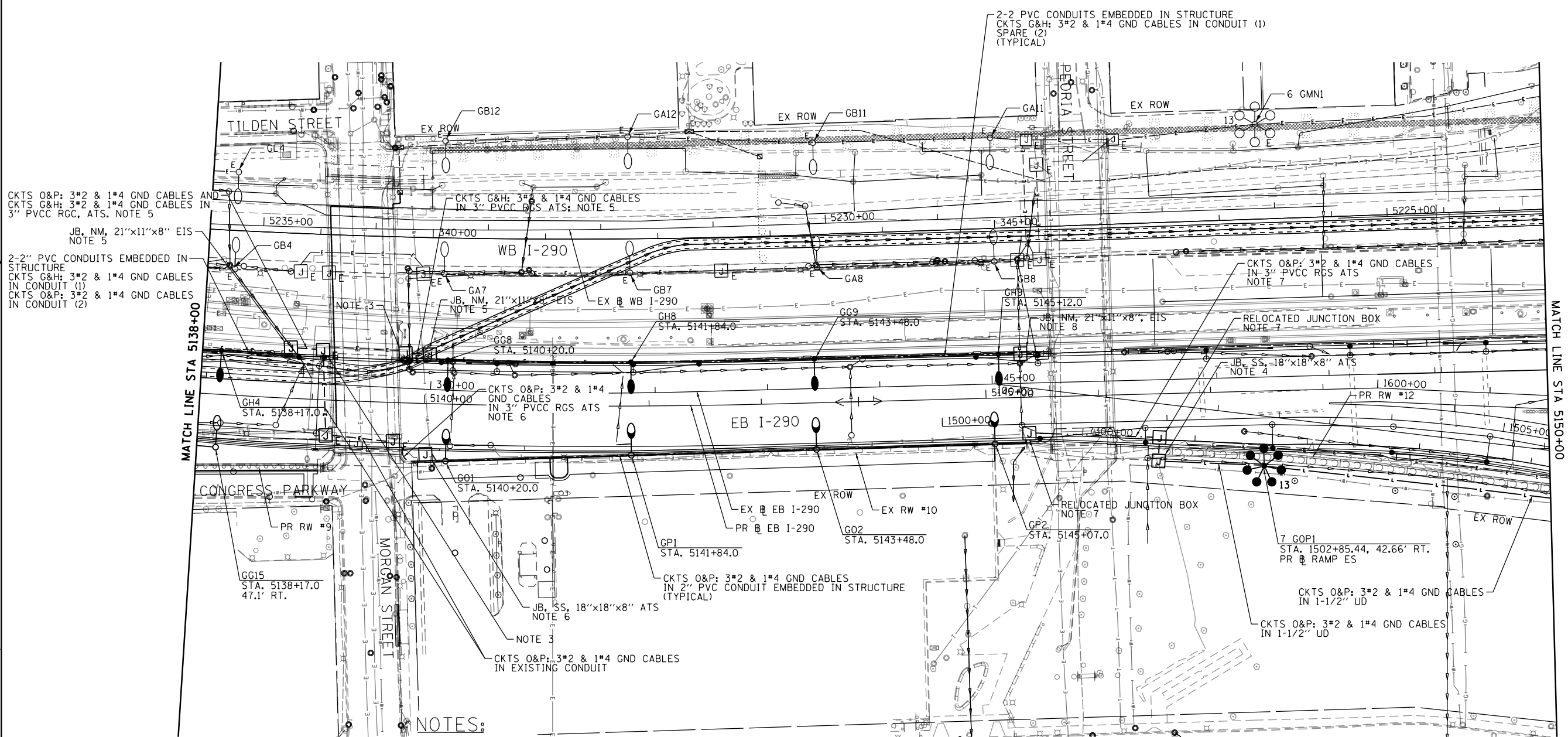
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

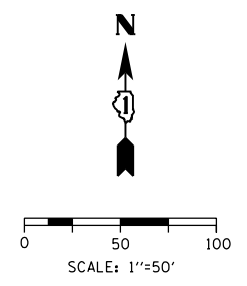
EASTBOUND I-290 PROPOSED LIGHTING PLAN		
SCALE: 1\"=50'	SHEET 7 OF 17 SHEETS	STA. 5126+45 TO STA. 5138+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	396
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. SPLICE THE PROPOSED 3*2 & 1*4 GND CABLES FOR CIRCUITS G&H TO THE EXISTING CABLES THAT WERE INSTALLED IN CONTRACT 60W25.
4. SEE DRAWING E-14 FOR CONDUIT ROUTING THROUGH RW #12 DETAIL.
5. SEE DRAWING E-15 FOR CONDUIT ROUTING AT MORGAN STREET PIER STRUCTURE.
6. SEE DRAWING E-16 FOR CONDUIT ROUTING AT THE MORGAN STREET ABUTMENT.
7. SEE DRAWING E-17 FOR CONDUIT ROUTING AT THE PEORIA STREET ABUTMENT.
8. ROUTE A 3" PVC RGC OUT OF THE TOP OF THE PROPOSED BARRIER WALL FROM THE EMBEDDED JUNCTION BOX TO THE EXISTING 18"x18"x8" JUNCTION BOX INSTALLED ON THE SOUTH FACE OF THE PEORIA ST. MEDIAN PIER. THIS CONDUIT SHOULD BE MOUNTED ON TOP OF THE PROPOSED BARRIER WALL, AND UP THE WEST FACE OF THE EXISTING PIER WHEREVER POSSIBLE. THIS INSTALLATION SHOULD BE SIMILAR TO THE INSTALLATION DETAIL FOR MORGAN ST. SHOWN ON E-15. SEE DRAWING E-10 FOR CONNECTION TO THE UNDERPASS LIGHTING SYSTEM AT PEORIA ST.



E-08



D160X76-SHT-Light-08
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 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 5/8/2017

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DATE - 5/10/17	REVISED -

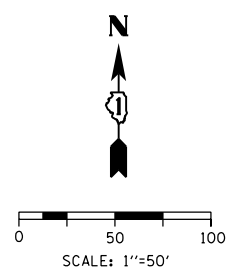
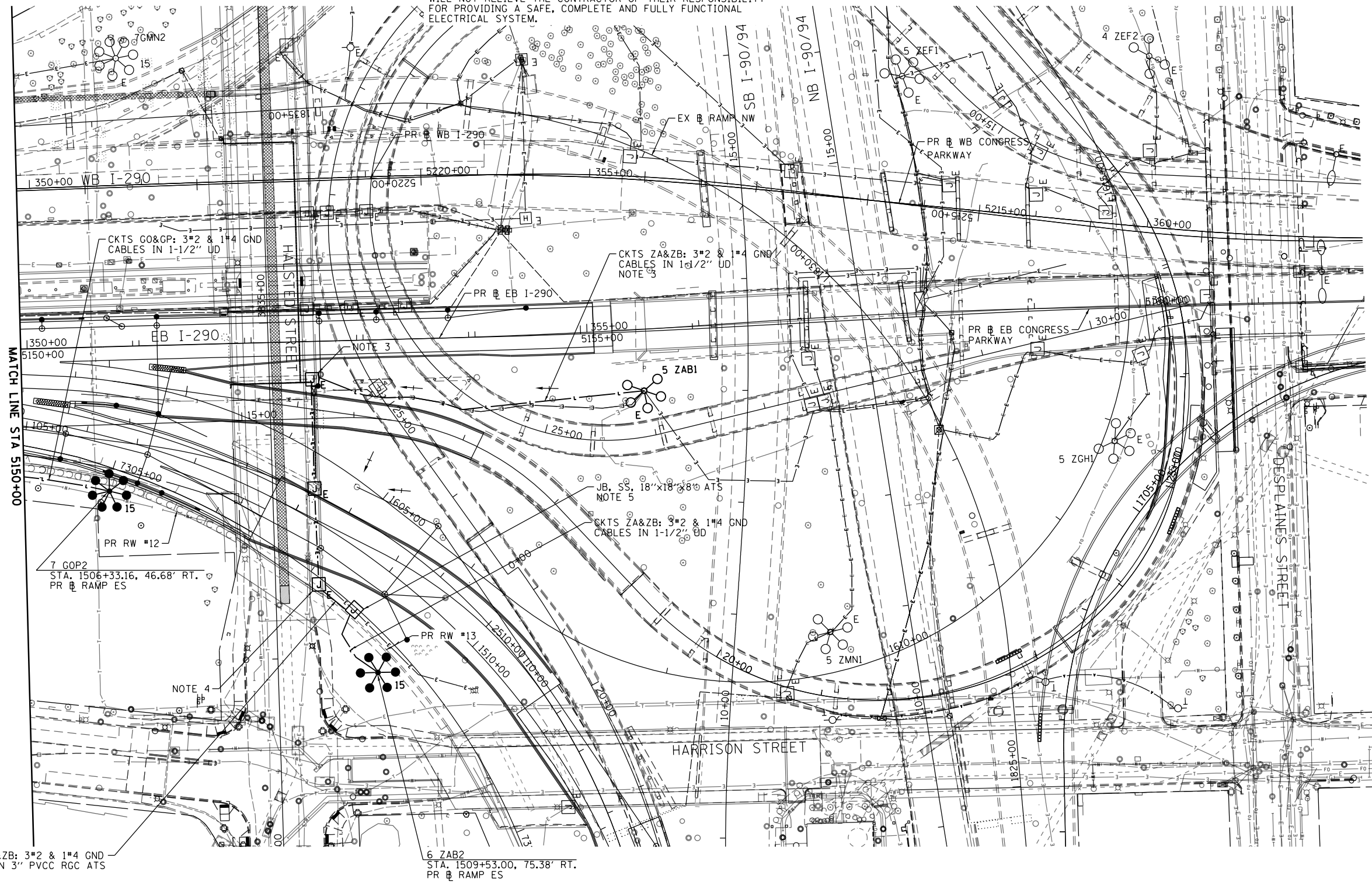
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EASTBOUND I-290
PROPOSED LIGHTING PLAN
 SCALE: 1"=50' SHEET 8 OF 17 SHEETS STA. 5138+00 TO STA. 5150+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	397
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. ROUTE UNIT DUCT FROM EXISTING HMLT 5 ZAB1, AVOIDING EXISTING DRILLED SHAFTS, THROUGH AN EXISTING CONDUIT TO AN EXISTING JUNCTION BOX ATTACHED TO A HALSTED STREET PIER. SPLICE CABLES TO THE EXISTING CABLES FOR CIRCUITS ZA & ZB LOCATED WITHIN THE JUNCTION BOX. PROVIDE TERMINAL BLOCKS AND 30A FUSES IN THE JUNCTION BOX AS SHOWN ON THE "TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM" AS SHOWN ON E-14. COORDINATE THIS WORK WITH THE 60X75 CONTRACTOR.
4. SPLICE THE PROPOSED CABLES FOR CIRCUITS ZA & ZB TO THE EXISTING CABLES LOCATED IN THE EXISTING JUNCTION BOX, LOCATED ON THE HALSTED ST. SOUTH ABUTMENT.
5. SEE DRAWING E-14 FOR CONDUIT ROUTING THROUGH RW#13.



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E-09



D160X76-SHT-Light-09
 USER NAME = myersc
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 5/8/2017

DESIGNED - PFD	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 5/10/17	REVISED -

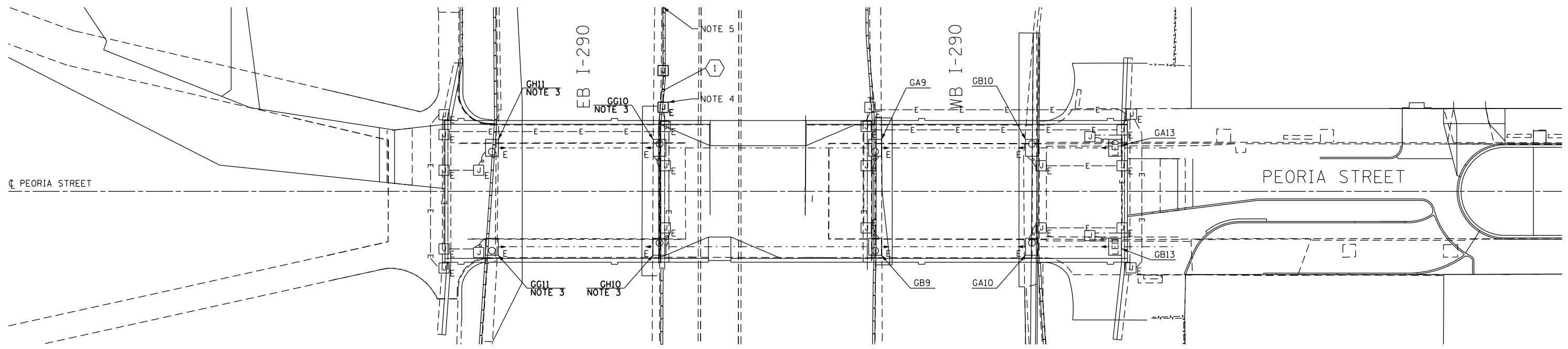
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EASTBOUND I-290
 PROPOSED LIGHTING PLAN**

SCALE: 1"=50' SHEET 9 OF 17 SHEETS STA. 5150+00 TO STA. 5162+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	398
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				

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PROPOSED UNDERPASS LIGHTING PLAN

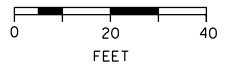
NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. EXISTING ELECTRICAL SYSTEMS, WHEN DEPICTED ON THE PLANS, ARE INTENDED TO INDICATE THE GENERAL EQUIPMENT INSTALLATIONS INVOLVED AND SHALL NOT BE CONSTRUED AS AN EXACT REPRESENTATION OF THE FIELD CONDITIONS. IT REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE TO CONFIRM AND ASCERTAIN THE EXACT CONDITION, SIZE, TYPE, QUANTITY AND LOCATION OF THE EXISTING ELECTRICAL EQUIPMENT. ANY DISCREPANCIES BETWEEN THE EXISTING ELECTRICAL EQUIPMENT IN THE FIELD AND THE DEPICTION OF THE EXISTING ELECTRICAL EQUIPMENT SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER FOR RESOLUTION. FAILURE TO VERIFY THE CONDITIONS, DIMENSIONS AND DETAILS OF THE EXISTING ELECTRICAL EQUIPMENT TO CONFIRM THAT THE NEW EQUIPMENT IS COMPATIBLE WITH THE EXISTING EQUIPMENT AND CAN BE PROPERLY INSTALLED AND CONNECTED AS SHOWN ON THE PLANS WILL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY FOR PROVIDING A SAFE, COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
3. PROVIDE NEW LIGHTING DECALS ON THE EXISTING LIGHTING UNIT TO RENAME AS SHOWN.
4. DRILL THE EXISTING JUNCTION BOX AND ROUTE A 3" PVC RGC INTO IT WITH CABLES FROM THE UNDERPASS LIGHTING CIRCUITS GG & GH. CONNECT THESE CABLES TO THE EXISTING CIRCUITS LOCATED WITHIN THE JUNCTION BOX. PROVIDE TERMINAL BLOCKS AND 30A FUSES IN THE EXISTING JUNCTION BOX FOR SPLICING NO. 10 UNDERPASS LIGHTING WIRES TO THE NO. 2 LIGHTING WIRES. SEE DRAWING E-14 FOR A TYPICAL UNDERPASS LIGHTING UNIT WIRING DIAGRAM.
5. SEE DRAWING E-08 FOR THE CONTINUATION OF THE LIGHTING CIRCUITS.

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



GRAPHIC SCALE



E-10



D160X76-shr-Light-10
 USER NAME = myersc
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 5/8/2017

DESIGNED - PFD	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 5/10/17	REVISED -









STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

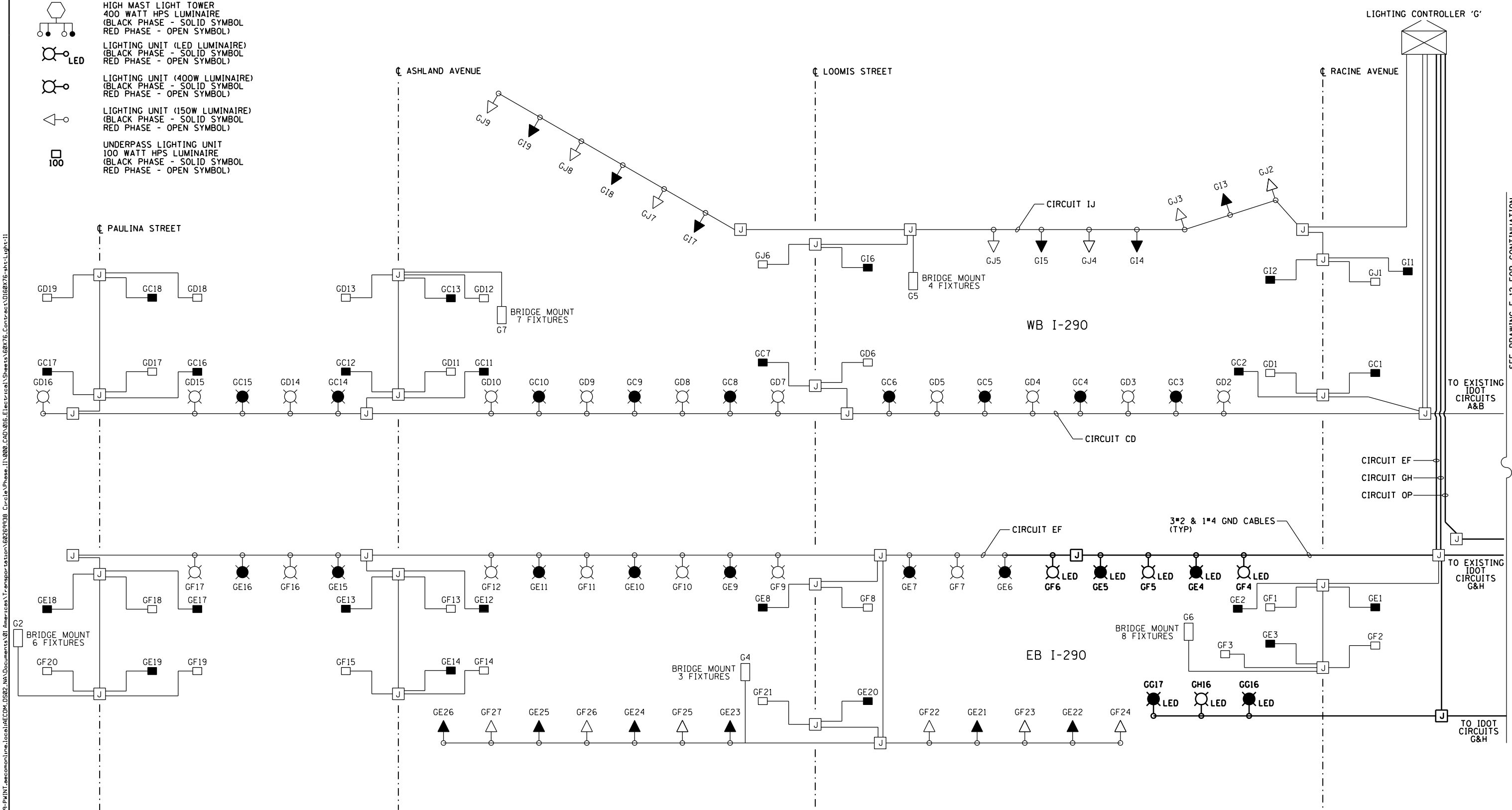
PEORIA STREET UNDERPASS LIGHTING PLAN

SCALE: 1"=20' SHEET 10 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	399
				CONTRACT NO. 60X76
ILLINOIS FED. AID PROJECT				

SYMBOLS LEGEND

-  IDOT LIGHTING CONTROLLER
-  JUNCTION BOX
-  UNDERPASS LIGHTING UNIT
55 WATT LPS LUMINAIRE
-  HIGH MAST LIGHT TOWER
400 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)
-  LIGHTING UNIT (LED LUMINAIRE)
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)
-  LIGHTING UNIT (400W LUMINAIRE)
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)
-  LIGHTING UNIT (150W LUMINAIRE)
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)
-  UNDERPASS LIGHTING UNIT
100 WATT HPS LUMINAIRE
(BLACK PHASE - SOLID SYMBOL
RED PHASE - OPEN SYMBOL)



SEE DRAWING E-12 FOR CONTINUATION

E-11

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D160X76-sht-Light-11
 USER NAME = myersc
 PLOT SCALE = 40.0000' / in.
 PLOT DATE = 5/8/2017

DESIGNED - PFD	REVISED -
DRAWN - CAM	REVISED -
CHECKED - WDS	REVISED -
DATE - 5/10/17	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IDOT LIGHTING CONTROLLER 'G'
 EXISTING WIRING DIAGRAM - PART 1**

SCALE: N.T.S. SHEET 11 OF 17 SHEETS STA. TO STA.

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-002R&B	COOK	814	400
CONTRACT NO. 60X76				
ILLINOIS FED. AID PROJECT				