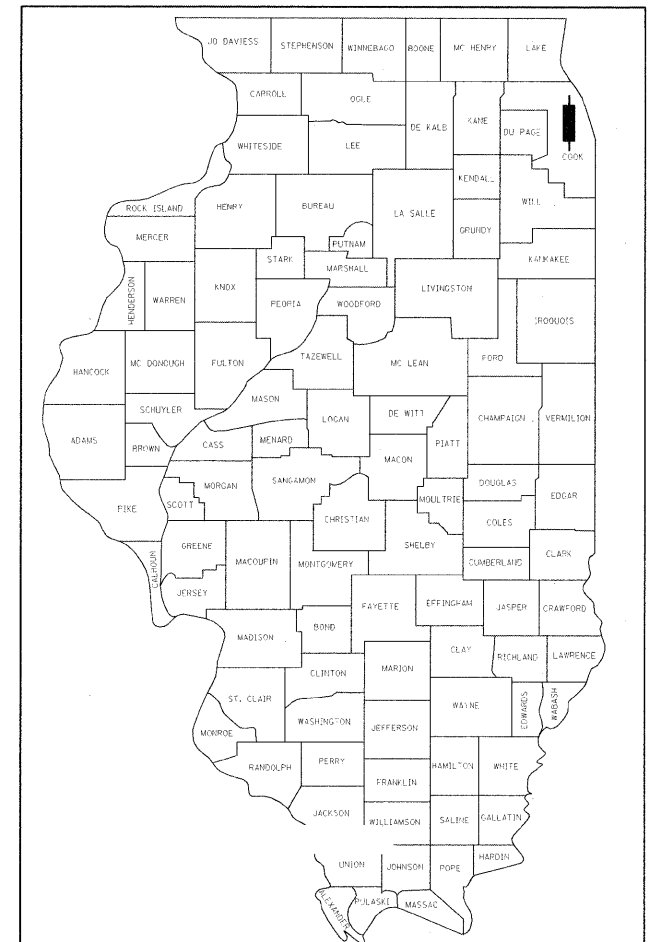


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	1
ILLINOIS			CONTRACT NO. 60C18	

* 139 + 6 = 145

D-91-149-07



LOCATION OF SECTION INDICATED THUS: -

PROJECT IS LOCATED IN THE CITY OF CHICAGO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

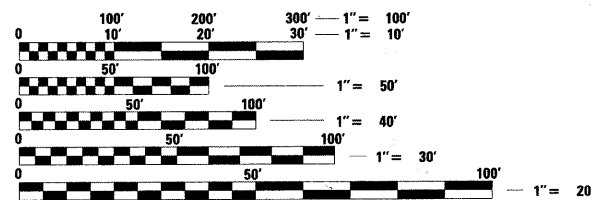
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

ROUTE FAI 94: I-94 (EDENS EXPRESSWAY)
LOCATION: AT ELSTON AVE
SECTION: 0101.8B
PROJECT: ACIM-094-2(246)043
BRIDGE REPLACEMENT & LIGHTING
C-91-149-07
COOK COUNTY

TRAFFIC DATA

	POSTED SPEED	DESIGN SPEED
ELSTON AVE	30	30
I-94	55	55

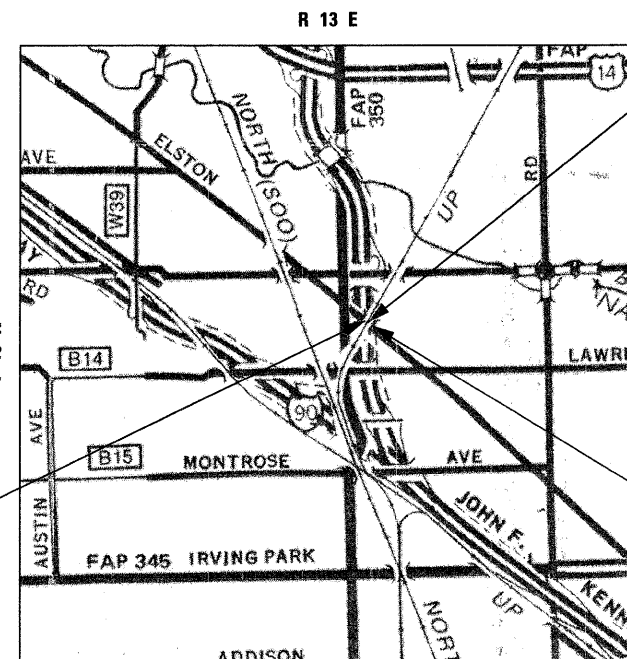


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811
AND C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

PROJECT ENGINEER: CRAIG BAUER - 847-705-4265
PROJECT MANAGER: LONG TRAN - 847-705-4232

CONTRACT NO. 60C18



PROJECT BEGINS
STA 48 + 57

PROJECT ENDS
51 + 71

OVERPASS
ELSTON OVER I-94
STA 49 + 99.23
S.N. 016-0610
147'-4" CONTINUOUS
TWO SPAN COMPOSITE
MULTI-GIRDER BRIDGE

LIGHTING DESIGNED BY
SPAAN Tech, Inc.
311 S. Wacker Drive, Suite 2400
Chicago, Illinois 60606
phone: 312.277.8800
fax: 312.277.8808
web: www.SpaanTech.com

IRVIN A. BERMAN
062-023180
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

Irvin A. Berman
SIGNATURE
6/18/2010
DATE
11/30/2011
EXPIRES

SEAL

JEFFERSON TOWNSHIP
GROSS LENGTH = 314 FT. = 0.06 MILE
NET LENGTH = 314 FT. = 0.06 MILE

ROADWAY AND STRUCTURES DESIGNED BY

DLZ

CRAIG R. BAUER
REGISTERED STRUCTURAL ENGINEER
081-005429
STATE OF ILLINOIS

Craig R. Bauer
SIGNATURE
6/18/10
DATE
11/30/11
EXPIRES

WAYNE A. TRLEY
REGISTERED STRUCTURAL ENGINEER
081-005429
STATE OF ILLINOIS

Wayne A. Trley
SIGNATURE
6-18-10
DATE
11-30-10
EXPIRES

SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JUNE 21, 2010

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 13, 2010

Scott E. Stitt, P.E.
REGISTERED ENGINEER OF DESIGN AND ENVIRONMENT

August 13, 2010

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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STATE STANDARDS

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000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-07	PAVEMENT JOINTS
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
601001-03	SUB-SURFACE DRAINS
604051-03	FRAME AND GRATE, TYPE 11
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-08	STEEL LANE BEAM GUARDRAIL
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
637001-04	CONCRETE BARRIER 815 MM (32 IN.) HEIGHT
642001-01	SHOULDER RUMBLE STRIPS
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701400-04	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-05	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-05	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-06	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701456	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

10 ft (3 m) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

WHERE ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.

STORM SEWER WATER MAIN IS TO BE USED AT LOCATIONS WHERE LATERAL SEPARATION BETWEEN THE SEWER AND WATER MAIN IS LESS THAN 10 ft (3.0 m) AND THE WATER MAIN INVERT IS LESS THAN 1.5 ft (0.45 m) ABOVE THE STORM SEWER CROWN.

STORM SEWER, RUBBER GASKET IS TO BE USED AT LOCATIONS WHERE THE WATER MAIN CROSSES BELOW THE SEWER, REGARDLESS OF VERTICAL SEPARATION OR WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 1.5 ft (0.45 m) ABOVE THE TOP OF THE SEWER.

THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.44 gal/yd² (2.0 L/m²).

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

ANY SIGNS, PAVEMENT MARKINGS OR REFLECTORS DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR NOT INCLUDED FOR REPLACEMENT IN THE PLANS SHALL BE REPLACED IN KIND BY THE CONTRACTOR AND NO COMPENSATION WILL BE ALLOWED.

COMMITMENTS

THIS PROJECT HAS BEEN SIGNED OFF IN-HOUSE FOR SPECIAL WASTE. IF THE PROPOSED SCOPE OF WORK CHANGES OR IF ADDITIONAL ROW/TEMPORARY EASEMENTS ARE REQUIRED, PLEASE CONTACT THE ENVIRONMENTAL STUDIES UNIT AT EXTENSION 4101 TO DISCUSS ANY POTENTIAL IMPACTS.

SPECIAL WASTE

THE PROPOSED SCOPE OF WORK INCLUDES EXCAVATION AND DISPOSAL OF BACKFILL MATERIAL FROM BEHIND THE EXISTING BRIDGE ABUTMENTS OF S.N. 016-0610

EXCAVATED MATERIAL IS LOCATED WITHIN EXISTING ROADWAY LIMITS AND SHALL BE DISPOSED OF WITHIN IDOT RIGHT-OF-WAY AT THE LOCATION SHOWN ON THE PLANS.

THIS PROJECT HAS BEEN SIGNED OFF IN-HOUSE FOR SPECIAL WASTE. IF THE PROPOSED SCOPE OF WORK CHANGES OR IF ADDITIONAL ROW/TEMPORARY EASEMENTS ARE REQUIRED, PLEASE CONTACT THE ENVIRONMENTAL STUDIES UNIT AT EXTENSION 4101 TO DISCUSS ANY POTENTIAL IMPACTS.

COST OF GRADING AND COMPACTING EXCAVATED MATERIAL IS INCLUDED IN THE COST OF STRUCTURE EXCAVATION. SEE STRUCTURE PLANS.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, IDOT HIGHWAY STANDARDS, GENERAL NOTES & COMMITMENTS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
*FILE#		DRAWN -	REVISED -			94	0101.8B	COOK	139	2	
		CHECKED -	REVISED -			CONTRACT NO. 60C18					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
		PLDT SCALE = #SCALE#		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	

CODE #	ITEM	UNIT	90% FED./10% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				ROADWAY 1000	TRAFFIC SIGNALS Y031-1E	CHICAGO LIGHTING Y030-1E	IDOT LIGHTING Y030-1E	BRIDGE X271-2A	SURVEILLANCE Y032-1F
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	75	75					
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	263					263	
20800150	TRENCH BACKFILL	CU YD	368	368					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	300	300					
25000210	SEEDING, CLASS 2A	ACRE	0.3	0.3					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	27	27					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	27	27					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	27	27					
25100630	EROSION CONTROL BLANKET	SQ YD	1400	1400					
28000510	INLET FILTERS	EACH	3	3					
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	104	104					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	16	16					
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	1					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	5	5					
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	1.8	1.8					
40603395	HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	10.3	10.3					
42001300	PROTECTIVE COAT	SQ YD	1039	1039					
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	499	499					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1698	1698					
42400800	DETECTABLE WARNINGS	SQ FT	29	29					
44000100	PAVEMENT REMOVAL	SQ YD	450	450					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	123	123					
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	13	13					
44000300	CURB REMOVAL	FOOT	3	3					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	445	445					
44000600	SIDEWALK REMOVAL	SQ FT	1605	1605					
Z0004552	APPROACH SLAB REMOVAL	SQ YD	593	593					
44002209	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/4"	SQ YD	40	40					
44004250	PAVED SHOULDER REMOVAL	SQ YD	490	490					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	34	34					
48203053	HOT-MIX ASPHALT SHOULDERS, 14"	SQ YD	490	490					
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1					1	
50102400	CONCRETE REMOVAL	CU YD	213					213	
Z0003617	REMOVAL OF EXISTING SUB-STRUCTURE	EACH	1					1	
50200100	STRUCTURE EXCAVATION	CU YD	940					940	
50300225	CONCRETE STRUCTURES	CU YD	506.0					506.0	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	592.8					592.8	
50300260	BRIDGE DECK GROOVING	SQ YD	1355					1355	

• SPECIALTY ITEM
 •• NON-PARTICIPATING
 ••• 100% CITY OF CHICAGO

REV

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	94	0101.8B	COOK	139	3
	PLOT DATE = #DATE#	CHECKED -	REVISED -								CONTRACT NO. 60C18		
								ILLINOIS FED. AID PROJECT					

CODE #	ITEM	UNIT	90% FED./10% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				ROADWAY 1000	TRAFFIC SIGNALS Y031-1E	CHICAGO LIGHTING Y030-1E	IDOT LIGHTING Y030-1E	BRIDGE X271-2A	SURVEILLANCE Y032-1E
50300300	PROTECTIVE COAT	SQ YD	1822					1822	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1					1	
50500505	STUD SHEAR CONNECTORS	EACH	5112					5112	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	183807					183807	
50800515	BAR SPLICERS	EACH	928					928	
50901730	BRIDGE FENCE RAILING	FOOT	422					422	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1313					1313	
51202305	DRIVING PILES	FOOT	1313					1313	
51203600	TEST PILE STEEL HP12X53	EACH	1					1	
50026407	TEMPORARY SHEET PILING	SQ FT	3257					3257	
51500100	NAME PLATES	EACH	1					1	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	182					182	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24					24	
58106400	ADJUSTING WATER MAIN 8"	FOOT	53	53					
58700300	CONCRETE SEALER	SQ FT	3723					3723	
59000200	EPOXY CRACK INJECTION	FOOT	49					49	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	253					253	
60251500	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	1					
60255500	MANHOLES TO BE ADJUSTED	EACH	1	1					
60261300	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	2	2					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	6	6					
60500040	REMOVING MANHOLES	EACH	1	1					
60600605	CONCRETE CURB, TYPE B	FOOT	16	16					
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	161	161					
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	130	130					
* 63301235	REMOVE AND REERECT STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	182	182					
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	FOOT	243	243					
63700805	CONCRETE BARRIER TRANSITION	FOOT	100	100					
63700900	CONCRETE BARRIER BASE	FOOT	313	313					
64200105	SHOULDER RUMBLE STRIP	FOOT	2958	2958					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18					
67100100	MOBILIZATION	L SUM	1	1					
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	4	4					
70103817	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	10	10					
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	992	992					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2962.5	2962.5					

- SPECIALTY ITEM
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Rev.

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		DATE											ILLINOIS FED. AID PROJECT

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				ROADWAY 1000	TRAFFIC SIGNALS Y031-1F	CHICAGO LIGHTING Y030-1E	IDOT LIGHTING Y030-1E	BRIDGE X271-2A	SURVEILLANCE Y032-1F
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	12053	12053					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2037.5	2037.5					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2050	2050					
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	67	67					
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2648	2648					
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1141	1141					
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	145	145					
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	37	37					
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	36	36					
78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	5924	5924					
78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"	FOOT	1571	1571					
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	39	39					
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	711	711					
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	260	260					
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	39	39					
78100300	REPLACEMENT REFLECTOR	EACH	157	157					
78200530	BARRIER WALL MARKERS, TYPE C	EACH	87	87					
78300100	PAVEMENT MARKING REMOVAL	SQ FT	375	375					
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	300			300			
81017515	CONDUIT IN TRENCH, 1/4" DIA., COILABLE NONMETALLIC CONDUIT	FOOT	20						20
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	24			24			
81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	400						400
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	90						90
81018400	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60				60		
81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	400				400		
81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	70				20		50
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	800			800			
81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	850				450		400
81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	8				8		
81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	3				3		
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	1						1
81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	1				1		
81302500	JUNCTION BOX, CAST IRON, EMBEDDED IN STRUCTURE, 18" X 12" X 8"	EACH	3			2	1		
81306500	REMOVE EXISTING JUNCTION BOX	EACH	2			1	1		
81400200	HEAVY DUTY HANDHOLE	EACH	2						2
81603140	UNIT DUCT, 600V, 3-1C NO.10, 1/C NO.10 GROUND, (EPR-TYPE RHW), 3/4" DIA. POLYETHYLENE	FOOT	300				300		
81603205	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.4 GROUND, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE	FOOT	550				550		
81700110	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	1600				1600		
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	510			110	400		
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	400						400
81900302	TRENCH AND BACKFILL WITH SCREENINGS OR SAND	FOOT	75			75			
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4				4		
82106400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	5				5		

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FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	94	0101.8B	COOK	139	5
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		DATE -	REVISED -									
											CONTRACT NO. 60C18	
											ILLINOIS FED. AID PROJECT	

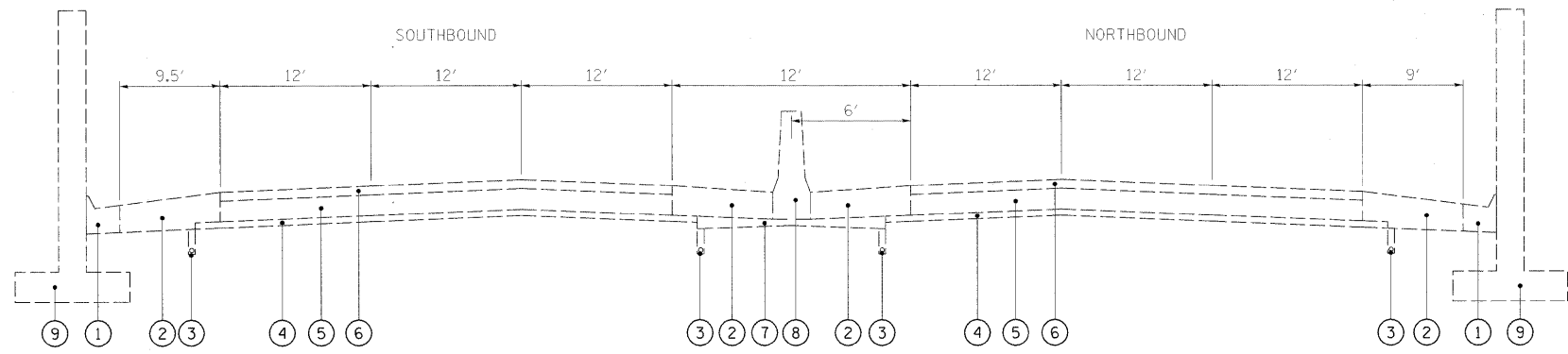
CODE #	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				ROADWAY 1000	TRAFFIC SIGNALS Y031-1F	CHICAGO LIGHTING Y030-1E	IDOT LIGHTING Y030-1E	BRIDGE X271-2A	SURVEILLANCE Y032-1F
* 82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	8				8		
* 83050110	LIGHT POLE, ALUMINUM, 32.5 FT. M.H., 12 FT. MAST ARM (INSTALL ONLY)	EACH	5				5		
* 83057340	LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	3				3		
* 83057345	LIGHT POLE, WOOD, 60 FOOT, CLASS 3, WITH 15FT MAST ARM	EACH	4				4		
* 83057470	LIGHT POLE, WOOD, 90 FOOT, CLASS 3	EACH	1				1		
* 83057475	LIGHT POLE, WOOD, 90 FOOT, CLASS 3 WITH 15 FT MAST ARM	EACH	1				1		
* 83000200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	14				14		
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	5			5			
* 84200000	REMOVAL POLE FOUNDATION	EACH	2				2		
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2				2		
* 89000200	TEMPORARY TRAFFIC SIGNAL INSTALLATION	L SUM	1		1				
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5000			3000	1000		1000
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	157	157					
** X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	200			200			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	163.9	163.9					
* X8730248	ELECTRIC CABLE IN CONDUIT, NO. 18, 4 PAIR TWISTED, SHIELDED	FOOT	1000						1000
* X0322703	TRIPLEX CABLE IN CONDUIT, 2 NO. 6 AND 1 NO. 8 (3TC)	FOOT	1000			1000			
* X0323157	REMOVE LUMINAIRE FROM UNDERPASS	EACH	2				2		
* X0323364	ELECTRIC CABLE IN CONDUIT, NO. 19 G/C	FOOT	850						850
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12			12			
* X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	380			80	300		
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	2505					2505	
X0324198	REMOVAL OF ASBESTOS CEMENT CONDUIT	FOOT	918					918	
X0324345	COMBINED SEWER REMOVAL 24"	FOOT	104	104					
X0324571	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1			1			
** Z0010614	CLEANING EXISTING MANHOLE OR HANDHOLE	EACH	2			2			
X0325085	TEMPORARY PAVEMENT (INTERSTATE)	SQ YD	49	49					
X0325201	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	658	658					
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	54					54	
X7030104	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	30156	30156					
X7030112	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 12 INCH	FOOT	40	40					
X7030124	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	39	39					
X0326095	PIPE UNDERDRAIN REMOVAL AND REPLACEMENT	FOOT	626	626					
X7030105	PAVEMENT MARKING WET TEMPORARY TAPE, TYPE III, 5 INCH	FOOT	4520	4520					
* X0306000	JUNCTION BOX (SPECIAL)	EACH	2						2
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	1	1					
*** X6022400	MANHOLES, TYPE A, 3' DIA. (INCLUDING FRAMES AND LIDS)	EACH	2					2	
* X0050107	INDUCTION LOOP	FOOT	68						68
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Z0018400	DRAINAGE STRUCTURE TO BE ADJUSTED	EACH	6	6					
Z0018940	DRILL EXISTING MANHOLE OR HANDHOLE	EACH	2				2		
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2					
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2					

* SPECIALTY ITEM
** NON-PARTICIPATING
*** 100% CITY OF CHICAGO

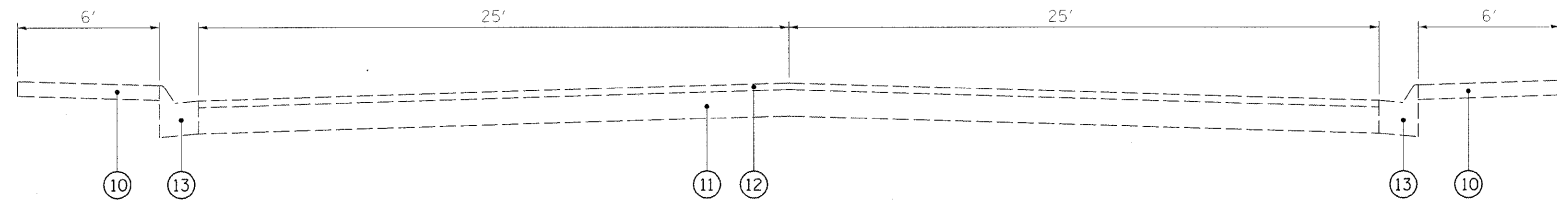
FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -					SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	94	0101.8B	COOK	139	6
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -									CONTRACT NO. 60C18				
	PLOT DATE = #DATE#	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

CODE #	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE					
				ROADWAY 1000	TRAFFIC SIGNALS Y031-1F	CHICAGO LIGHTING Y030-1E	IDOT LIGHTING Y030-1E	BRIDGE X271-2A	SURVEILLANCE Y032-1F
Z0030340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2	2					
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	6	6					
Z0064600	SELECTIVE CLEARING	ACRE	0.18	0.18					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	4	4					
* X0325527	REMOVE & REINSTALL SIGNAL EQUIPMENT	L SUM	1		1				
* X0324705	MAST ARM, STEEL, 12 FOOT, ^{STREET LIGHTING,} INSTALL ONLY	EACH	5				5		
* X0327044	MAST ARM, STEEL, 12 FOOT, ^{STREET LIGHTING,} FURNISH ONLY	EACH	5			5			
* 82106700	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (MATERIAL ONLY)	EACH	5			5			
* X0327045	LIGHT POLE, STEEL, 32.5 FT. M.H. (FURNISH ONLY)	EACH	5			5			
* X0327046	ELECTRICAL FRAME AND LID, 30"	EACH	4			4			
* XX004046	AERIAL CABLE REMOVAL	FOOT	1350			350			1000
*** X0327040	COMBINED SEWER, CLASS A, TYPE 3, 24"	FOOT	63	63					
* 81100420	CONDUIT ATTACHED TO STRUCTURE, 1/4" PVC GALVANIZED STEEL CONDUIT	FOOT	120						120
* X8130360	JUNCTION BOX, COMPOSITE CONCRETE, EMBEDDED IN STRUCTURE, 20" X 13" X 12"	EACH	1				1		
* X0326865	ELECTRIC CABLE NO. 19, 25 PAIR	FOOT	1050						1050
* X0327046	TEMPORARY CABLE INSTALLATION/REMOVAL	L SUM	1						1
* [REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
o Z0076600	TRAINEES	Hour	1500	1500					

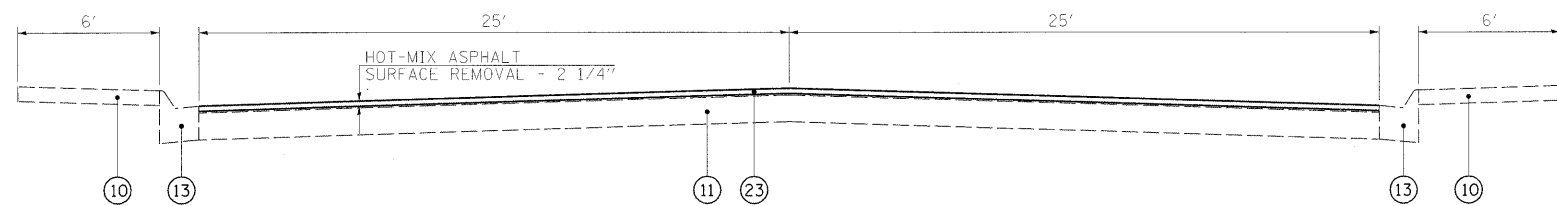
© Y080
 • SPECIALTY ITEM
 ** NON-PARTICIPATING
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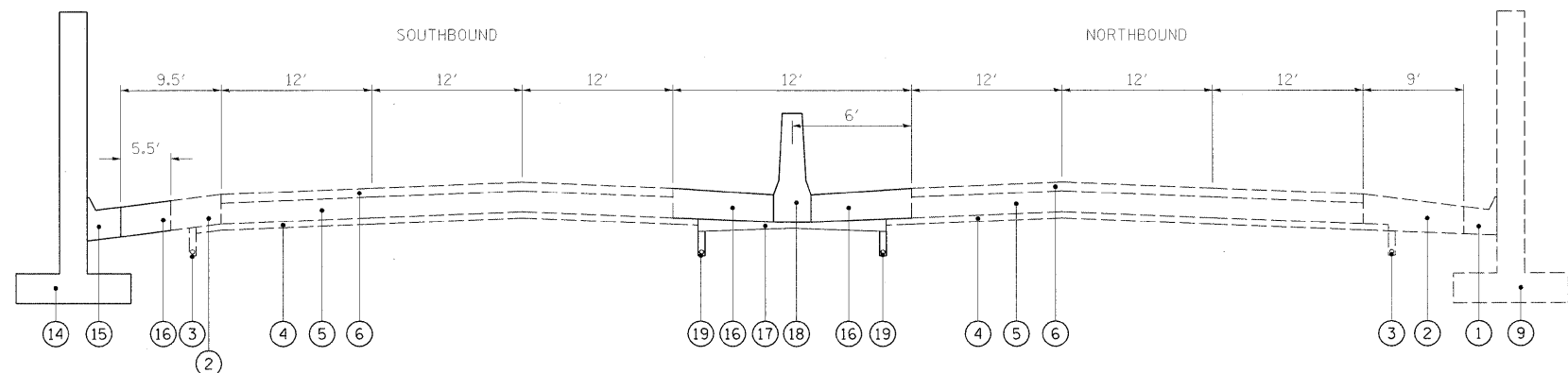
EXISTING TYPICAL SECTION - I-94



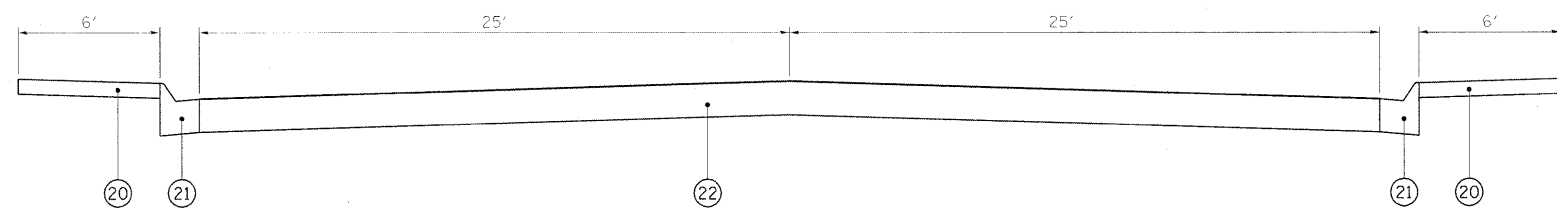
EXISTING TYPICAL SECTION - ELSTON



PROPOSED RESURFACING - ELSTON



PROPOSED TYPICAL SECTION - I-94



PROPOSED TYPICAL SECTION - ELSTON

LEGEND

- ① EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- ② EXISTING BITUMINOUS SHOULDER
- ③ EXISTING PIPE UNDERDRAIN
- ④ EXISTING SUB-BASE
- ⑤ EXISTING PCC PAVEMENT, 10"
- ⑥ EXISTING BITUMINOUS PAVEMENT, 4-1/4"
- ⑦ EXISTING GRANULAR SUB-BASE
- ⑧ EXISTING CONCRETE BARRIER
- ⑨ EXISTING BRIDGE ABUTMENT
- ⑩ EXISTING CEMENT CONCRETE SIDEWALK, 5"
- ⑪ EXISTING PCC PAVEMENT, 9"
- ⑫ EXISTING BITUMINOUS PAVEMENT, 2-1/4"
- ⑬ EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑭ PROPOSED BRIDGE ABUTMENT
- ⑮ COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24
- ⑯ HOT-MIX ASPHALT SHOULDERS, 14"
- ⑰ SUB-BASE, GRANULAR MATERIAL, TYPE B
- ⑱ CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT
- ⑲ PIPE UNDERDRAIN REMOVAL AND REPLACEMENT
- ⑳ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ㉑ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ㉒ BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
- ㉓ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90; 2 1/4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1 1/2"	4% @ 70 Gyr.
TEMP PVMT (INTERSTATE) (HMA BINDER IL-19 mm); 8.5"	4% @ 70 Gyr.
SHOULDER RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1 1/2"	4% @ 70 Gyr.
HMA SHOULDER (HMA BINDER IL-19 mm); 12 1/2" (4 LIFTS)	4% @ 70 Gyr.
FILLING SHOULDER RUMBLE STRIPS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 Gyr.
DRIVEWAY	
HMA SURFACE COURSE, MIX "C", N50 (IL 9.5 mm); 2"	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm); 8"	4% @ 50 Gyr.
ELSTON RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm); 2 1/4"	4% @ 90 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 Gyr.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 Gyr.

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

20800150	TRENCH BACKFILL	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	44000700	APPROACH SLAB REMOVAL
CU YD	LOCATION	SQ FT	LOCATION	SQ YD	LOCATION
109.3	STA 50+69 LT TO STA 50+80.37 RT	489	STA 48+24.59 TO BRIDGE LT	241	STA 48+79.52 TO BRIDGE
133.5	STA 50+80.37 RT TO STA 51+25 RT	155	STA 49+26.20 TO BRIDGE RT	352	BRIDGE TO STA 51+38.20
125.2	STA 51+25 RT TO STA 50+69 LT	76	BRIDGE TO STA 50+67.06 LT	593	TOTAL
368	TOTAL	502	STA 50+86.59 TO STA 51+70.17 LT		
		476	BRIDGE TO STA 51+70.06 RT		
		1698	TOTAL	44002209	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/4"
21101615	TOPSOIL FURNISH AND PLACE 4"	42400800	DETECTABLE WARNINGS	SQ YD	LOCATION
SQ YD	LOCATION	SQ FT	LOCATION	40	STA 50+69 TO STA 51+25
300	ESTIMATED QUANTITY.	17	NE QUAD OF ELSTON & CICERO	40	TOTAL
300	TOTAL	12	SE QUAD OF ELSTON & CICERO		
		29	TOTAL	44004250	PAVED SHOULDER REMOVAL
		44000100	PAVEMENT REMOVAL	SQ YD	LOCATION
		SQ YD	LOCATION	80	-112.12 LT CENTER PIER TO 18.04 RT
		186	STA 48+56.17 TO STA 48+79.52	205	-200 LT CENTER PIER TO 195 RT
		183	STA 51+38.20 TO STA 41+71.05	205	-200 LT CENTER PIER TO 195 RT
		369	TOTAL	490	TOTAL
		44000200	DRIVEWAY PAVEMENT REMOVAL	44201771	CLASS D PATCHES, TYPE IV, 10 INCH
		SQ YD	LOCATION	SQ YD	LOCATION
		13	STA 50+77.44 LT - CE	34	STA 50+69 TO STA 51+25
		13	TOTAL	34	TOTAL
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	44000300	CURB REMOVAL	48203053	HOT-MIX ASPHALT SHOULDERS, 14"
TON	LOCATION	FOOT	LOCATION	SQ YD	LOCATION
104	ESTIMATED QUANTITY UNDER I-94 SHOULDERS	2	STA 50+66.99 TO STA 50+68.62 LT	80	-112.12 LT CENTER PIER TO 18.04 RT
104	TOTAL	1	STA 50+85.97 TO STA 50+86.27 LT	205	-200 LT CENTER PIER TO 195 RT
		3	TOTAL	205	-200 LT CENTER PIER TO 195 RT
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	44000500	COMBINATION CURB AND GUTTER REMOVAL	490	TOTAL
SQ YD	LOCATION	FOOT	LOCATION	56106400	ADJUSTING WATER MAIN 8"
16	CE @ STA. 50+77.3 LT	82	STA 48+22.46 TO BRIDGE LT	FOOT	LOCATION
16	TOTAL	31	STA 49+26.74 TO BRIDGE RT	53	AS DIRECTED BY ENGINEER
		74	BRIDGE TO STA 51+71.05 RT	53	TOTAL
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	117	BRIDGE TO STA 51+71.05 LT	60250200	CATCH BASINS TO BE ADJUSTED
TON	LOCATION	5	STA 50+58.83 TO STA 50+67.79 LT	EACH	LOCATION
5	STA 50+69 TO STA 51+25	6	STA 50+90.53 TO STA 50+85.97 LT	1	STA 51+56.06 25.90' LT
5	TOTAL	130	STA -112 TO STA 18 I-94	1	TOTAL
		445	TOTAL	60255500	MANHOLES TO BE ADJUSTED
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	44000600	SIDEWALK REMOVAL	EACH	LOCATION
TON	LOCATION	SQ FT	LOCATION	1	STA 51.53.59 0.24' LT
1.8	CE @ STA. 50+77.3 LT	427	STA 48+24.68 TO BRIDGE LT	1	TOTAL
1.8	TOTAL	154	STA 49+26.17 TO BRIDGE RT		
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	86	BRIDGE TO STA 50+66.44 LT		
SQ YD	LOCATION	507	STA 50+85.99 TO STA 51+71.05 LT		
196	STA 48+56.17 TO STA 48+81.66	431	BRIDGE TO STA 51+71.05 RT		
303	STA 51+16.24 TO STA 51+71.05	1605	TOTAL		
499	TOTAL				

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#FILE#		DRAWN -	REVISED -		94	0101.8B	COOK	139	9				
		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 60C18				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

60260100	INLETS TO BE ADJUSTED	63700900	CONCRETE BARRIER BASE	X0324345	COMBINED SEWER REMOVAL, 24"
EACH	LOCATION	FOOT	LOCATION	45.0	STA 50+80 RT TO STA 51+25 RT
1	STA 48+59.36 25.74' LT	159	-200 LT CENTER PIER TO -41 LT	59.0	STA 50+81 RT TO STA 50+69 LT
1	STA 51+58.15 26.35' RT	154	41 RT CENTER PIER TO 195 RT	104.0	TOTAL
2	TOTAL	313	TOTAL		
60500040	REMOVING MANHOLES	64200105	SHOULDER RUMBLE STRIP	X0325085	TEMPORARY PAVEMENT (INTERSTATE)
EACH	LOCATION	FOOT	LOCATION	SQ YD	LOCATION
1	STA 50+80.37 CENTER	1210.0	STA -840 TO STA 370 SB	49	-52.31 LT CENTER PIER TO 2.279 RT
1	TOTAL	1748.0	STA -888 TO STA 860 NB	49	TOTAL
		2958.0	TOTAL		
60600605	CONCRETE CURB, TYPE B	70400100	TEMPORARY CONCRETE BARRIER		
FOOT	LOCATION	FOOT	LOCATION		
9	STA 50+61.66 TO STA 50+68.62 LT	462.5	STA 4878.22 TO STA 53+45.83 ELSTON STAGE 1		
7	STA 50+87.32 TO STA 50+86.27 LT	125.0	STA 4882.92 TO STA 4962.63 RAMP TO I-94		
16	TOTAL	300.0	STA -215.2 TO STA 72.3 I-94 WEST ABUTMENT		
		287.5	STA -82.5 TO STA 217.5 I-94 EAST ABUTMENT		
		225.0	STA -300 TO STA 225 I-94 WEST PIER		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	250.0	STA -204.5 TO STA 333 I-94 EAST PIER	X0326095	PIPE UNDERDRAIN REMOVAL AND REPLACEMENT
FOOT	LOCATION	100.0	STA -300 TO STA 100 I-94 WEST PIER	FOOT	LOCATION
41	STA 48+22.46 TO STA 48+60.39 LT	287.5	STA -242 TO STA 333 I-94 EAST ABUTMENT	318	-200 LT CENTER PIER TO -41 LT
11	STA 49+27.41 TO STA 49+27.68 RT	2037.5	TOTAL	308	41 RT CENTER PIER TO 195 RT
33	STA 51+38.10 TO STA 51+71.05 RT			626	TOTAL
76	STA 50+94.97 TO STA 51+71.05 LT				
161	TOTAL				
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)
FOOT	LOCATION	FOOT	LOCATION	EACH	LOCATION
130	-112.12 LT CENTER PIER TO 18.04 RT	300.0	STA -300 TO STA 225 I-94 WEST PIER	1	STA 50+77 LT
130	TOTAL	287.5	STA -104.5 TO STA 333 I-94 EAST PIER	1	TOTAL
		287.5	STA 48+85.03 TO STA 51+73.96 ELSTON STAGE 2		
		300.0	STA -215.2 TO STA 72.3 I-94 WEST ABUTMENT		
		287.5	STA -82.5 TO STA 217.5 I-94 EAST ABUTMENT		
		300.0	STA -300 TO STA 100 I-94 WEST PIER		
		287.5	STA -242 TO STA 333 I-94 EAST PIER		
		2050.0	TOTAL		
63300230	REMOVAL AND REINSTALLATION OF EXISTING STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	78200530	BARRIER WALL MARKERS, TYPE C	X6022400	MANHOLES, TYPE A, 3' DIA. (INCLUDING FRAMES AND LIDS)
FOOT	LOCATION	EACH	LOCATION	EACH	LOCATION
91	WEST ABUTMENT	38	STA 4878.22 TO STA 53+45.83 ELSTON STAGE 1	1	STA 51+25 0' RT
91	EAST ABUTMENT	10	STA 4882.92 TO STA 4962.63 RAMP TO I-94	1	STA 50+69 31' LT
182	TOTAL	24	STA -215.2 TO STA 72.3 I-94 WEST ABUTMENT	2	TOTAL
		24	STA -82.5 TO STA 217.5 I-94 EAST ABUTMENT		
		18	STA -300 TO STA 225 I-94 WEST PIER		
		20	STA -204.5 TO STA 333 I-94 EAST PIER		
63700255	CONCRETE BARRIER, DOUBLE FACE, 32 INCH HEIGHT	8	STA -300 TO STA 100 I-94 WEST PIER		ADJUST FRAMES AND LIDS
FOOT	LOCATION	24	STA -242 TO STA 333 I-94 EAST ABUTMENT	EACH	LOCATION
109	-200 LT CENTER PIER TO -91 LT	166.0	TOTAL	1	STA 48+25.57 33.79' LT
104	91 RT CENTER PIER TO 195 RT			1	STA 48+56.64 12.78' LT
213	TOTAL			1	STA 48+95.72 30.38' RT
				1	STA 49+36.44 31.67' RT
				4	TOTAL
63700805	CONCRETE BARRIER TRANSITION	X0322256	TEMPORARY INFORMATION SIGNING	60300105	FRAMES AND GRATES TO BE ADJUSTED
FOOT	LOCATION	SQ FT	LOCATION	EACH	LOCATION
50	-91 LT CENTER PIER TO -41 LT	12.5	STA 45+37 LT DE SIGN	1	195.51' LT OF CENTER OF PR PIER
50	41 RT CENTER PIER TO 91 RT	12.5	STA 46+84 RT DE SIGN	1	167.30' LT OF CENTER OF PR PIER
100	TOTAL	12.5	STA 46+85 LT DE SIGN	1	157.63' LT OF CENTER OF PR PIER
		12.5	STA 47+58 RT DE SIGN	1	72.61' LT OF CENTER OF PR PIER
		12.5	STA 53+90 RT DE SIGN	1	72.03' LT OF CENTER OF PR PIER
		12.5	STA 58+00 RT DE SIGN	1	103.74' RT OF CENTER OF PR PIER
		12.5	STA 58+00 LT DE SIGN	1	
		12.5	STA 54+00 LT DE SIGN	1	
		12.5	STA 59+89 LT DE SIGN	1	
		51.4	ROAD WORK AHEAD EXPECT DELAYS (TC-22) X 2	6	TOTAL
		163.9	TOTAL		

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		CHECKED -	REVISED -									CONTRACT NO. 60C18				ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -																

Z0030240 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2

EACH LOCATION
 1 STA 48+78.22 RT ELSTON
 1 STA 53+45.83 RT ELSTON
 2 TOTAL

Z0030250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

EACH LOCATION
 1 STA -215.2 RT EB I94
 1 STA 217.5 LT WB I94
 2 TOTAL

Z0030340 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2

EACH LOCATION
 1 STA 48+78.22 RT TO STA 48+85.03 LT
 1 STA 53+45.83 RT TO STA 51+73.96 LT
 2 TOTAL

Z0030350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

EACH LOCATION
 1 STA -215.2 RT TO STA -300 RT
 1 STA 217.5 LT TO STA 333 LT
 1 STA -300 RT TO STA -215.2 RT
 1 STA 333 LT TO STA 217.5 LT
 1 STA -215.2 RT TO STA -300 RT
 1 STA 217.5 LT TO STA 333 LT
 6 TOTAL

COMBINED SEWERS, CLASS A, TYPE 3, 24"

FOOT LOCATION
 63 STA 51+25 0' RT TO STA 50+69 31' LT
 63 TOTAL

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -		94	0101.BB	COOK	139	11				
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 60C18				
	PLOT DATE = #DATE#	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

PAVEMENT MARKING SCHEDULE

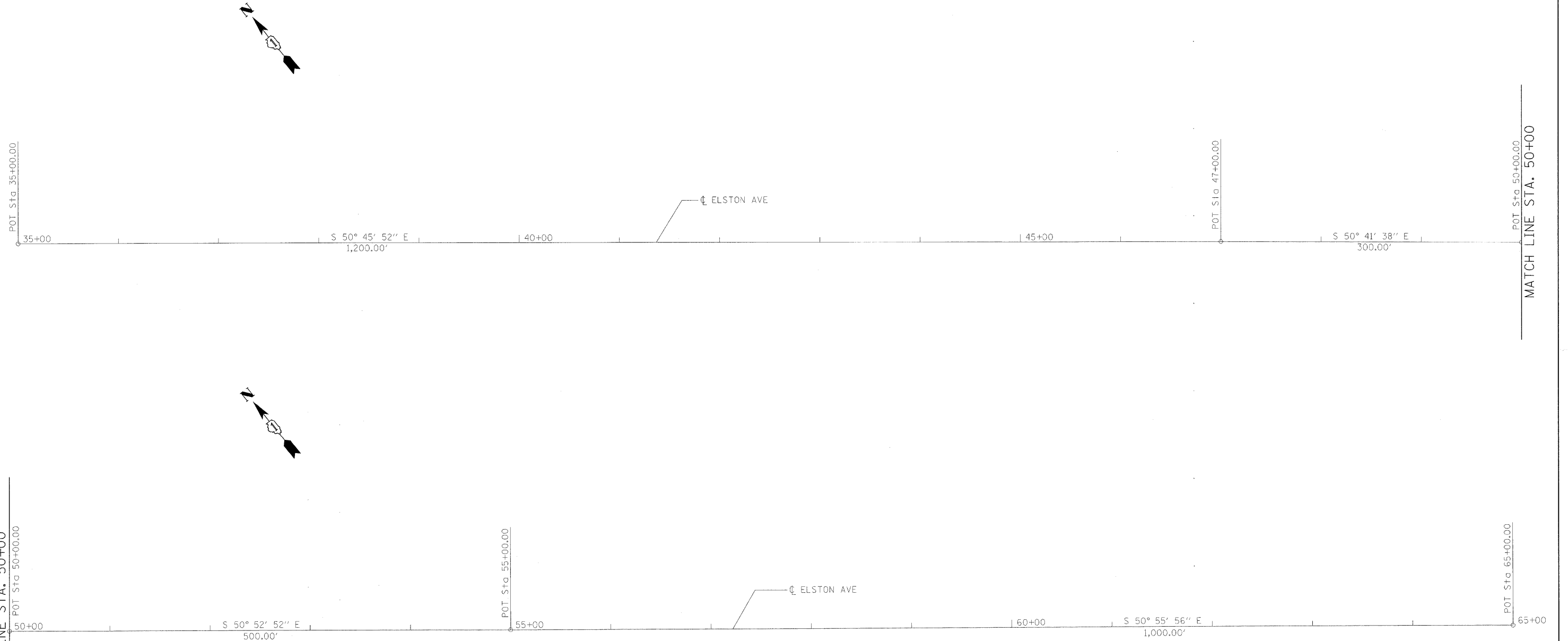
LOCATION	78008200	78008210	78008240	78008270	78000100	78000200	78000400	78000500	78000600	78000650	78003110	78003120	70300100
	POLYUREA PAVEMENT MARKING TYPE I				THERMOPLASTIC PAVEMENT MARKING						PREFORMED PLASTIC PAVEMENT MARKING TYPE B		SHORT-TERM PAVEMENT MARKING
	LETTERS AND SYMBOLS SQ FT	LINE 4" FOOT	LINE 6" FOOT	LINE 24" FOOT	LETTERS AND SYMBOLS SQ FT	LINE 4" FOOT	LINE 6" FOOT	LINE 8" FOOT	LINE 12" FOOT	LINE 24" FOOT	LINE 4" FOOT	LINE 5" FOOT	FOOT
ELSTON													
WESTBOUND	39	74	174	39	14	412	522	0	0	0	0	0	56
CENTERLINE	0	560	0	0	0	1788	0	0	0	0	0	0	140
EASTBOUND	0	68	86	0	53	449	619	0	0	36	0	0	68
I-94													
WESTBOUND	0	0	0	0	0	0	0	0	0	0	1533	828	252
CENTERLINE	0	0	0	0	0	0	0	0	0	0	3232	0	192
EASTBOUND	0	0	0	0	0	0	0	145	37	0	1159	743	284
TOTALS	38.7	702.2	260.0	39.0	66.5	2648.2	1141.0	145.2	37.0	36.0	5924.3	1570.9	992.0

STAGING PAVEMENT MARKING SCHEDULE

LOCATION	70300240	X0325775	X0326107	X0325840	X0325841	70301000
	TEMPORARY PAVEMENT MARKING - LINE 6"	WET REFLECTIVE TEMPORARY TAPE, TYPE III				WORK ZONE PAVEMENT MARKING REMOVAL
		4 INCH	5 INCH	12 INCH	24 INCH	
		FOOT				SQ FT
ELSTON S1	0	4345	0	0	13	1473
I-94 S1	463	963	0	0	0	321
I-94 S1A	0	6552	1500	0	0	2809
I-94 S1B	0	6552	1500	0	0	2809
ELSTON S2	0	4717	0	0	26	1624
I-94 S2	463	963	0	0	0	321
I-94 S2A	0	6065	1520	40	0	2696
TOTAL	926	30157	4520	40	39	12053
EST. 3 APPLS		90471	13560	120	117	

PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	78300100	78300200	78100300
	PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	REPLACEMENT REFLECTOR
	SQ FT	EACH	EACH
ELSTON			
WESTBOUND	1171	0	0
EASTBOUND	1217	0	0
I-94			
WESTBOUND	1391	83	83
EASTBOUND	1335	74	74
TOTALS	5114	157	157



ELSTON AVE COORDINATE DATA

POINT	NORTHING	EASTING
POT Sta 35+00	1934088.4629	1142419.0996
POT Sta 47+00	1933329.4516	1143348.5631
POT Sta 50+00	1933139.4121	1143580.6945
POT Sta 55+00	1932823.9457	1143968.6132
POT Sta 65+00	1932193.7068	1144745.0145

BENCHMARKS DESCRIPTION

BM #1 ELEVATION = 612.88
 S. MOST BOLT FIRE HYDRANT LOCATED AT S.W. CORNER CICERO AVE AND WINNEMAC AVE.
 STA. 48+70.49, 126.75' RT

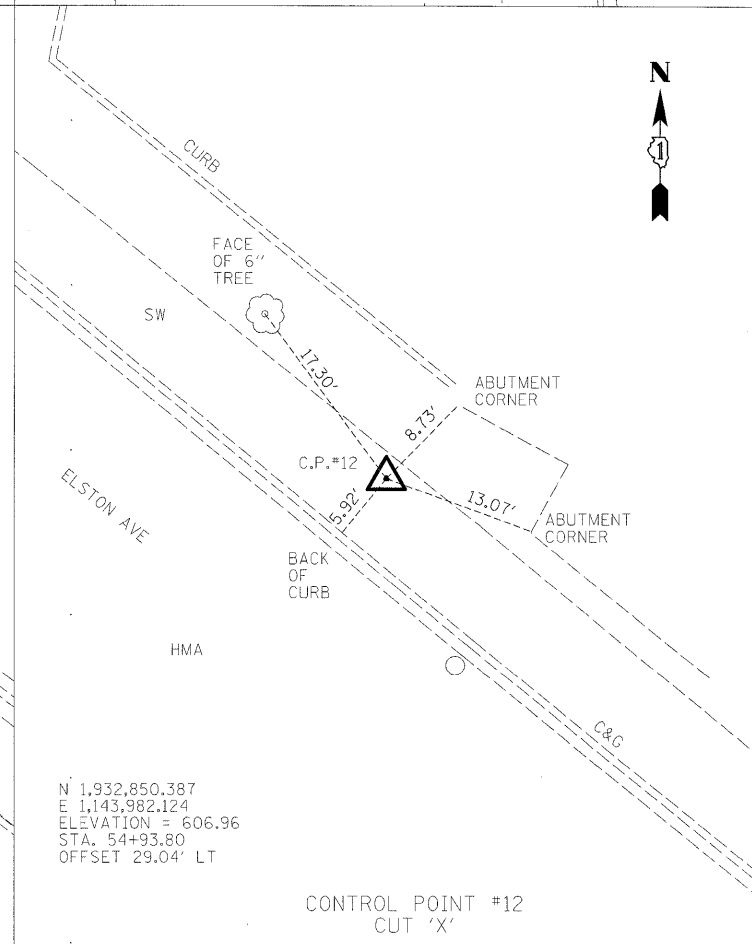
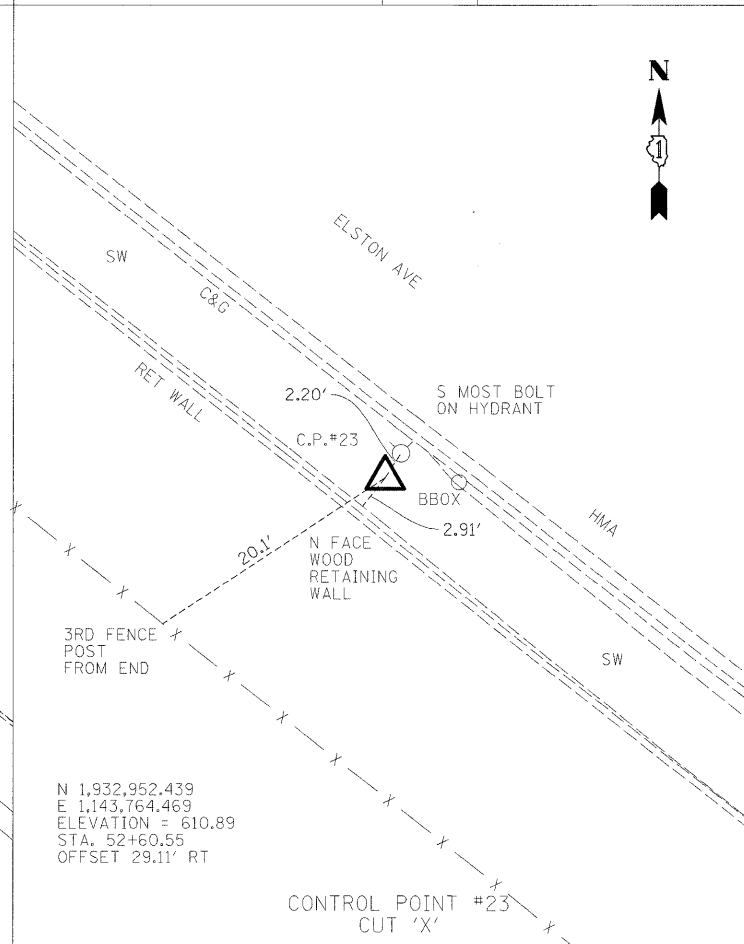
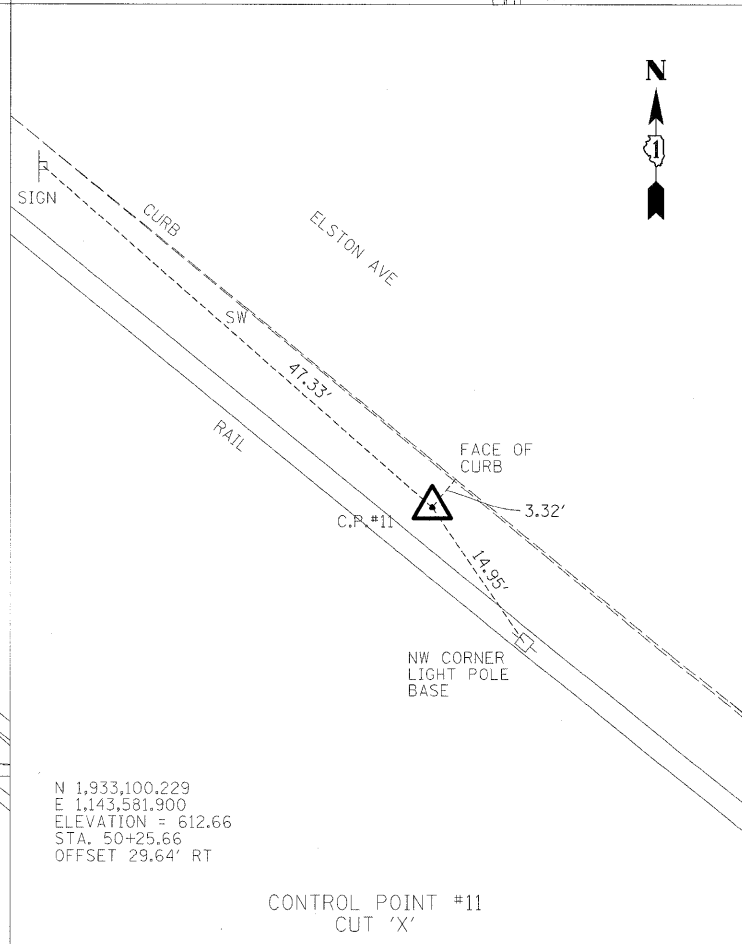
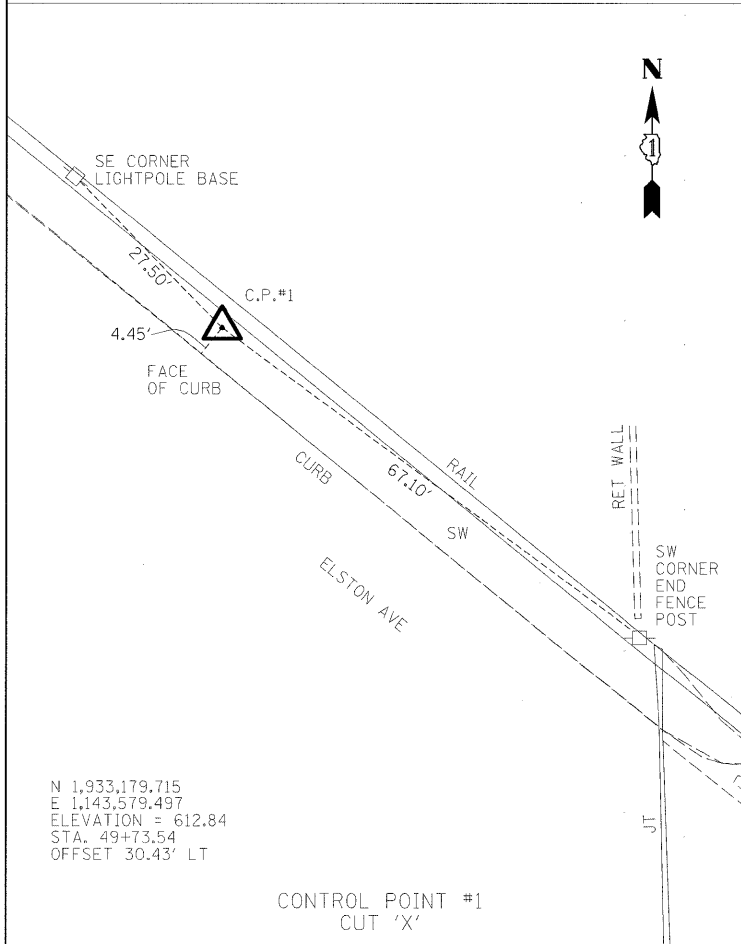
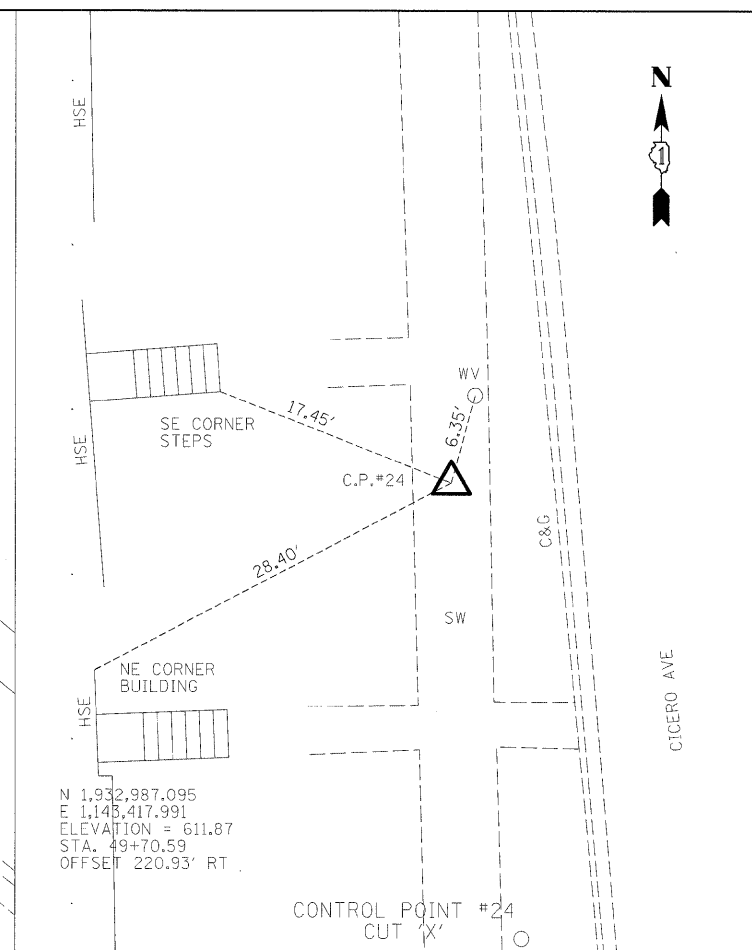
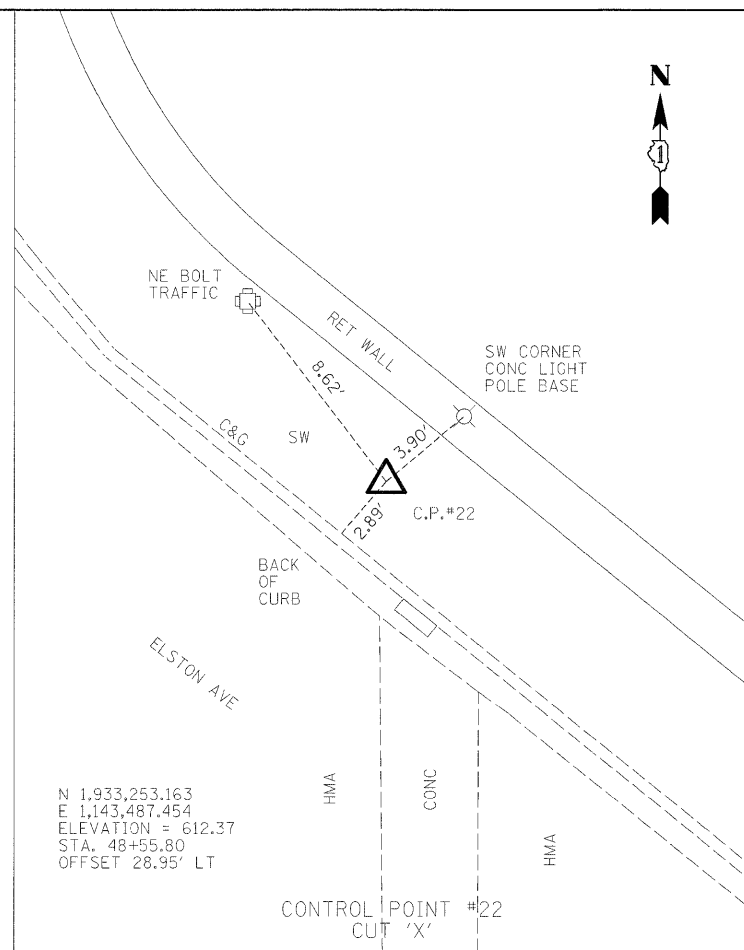
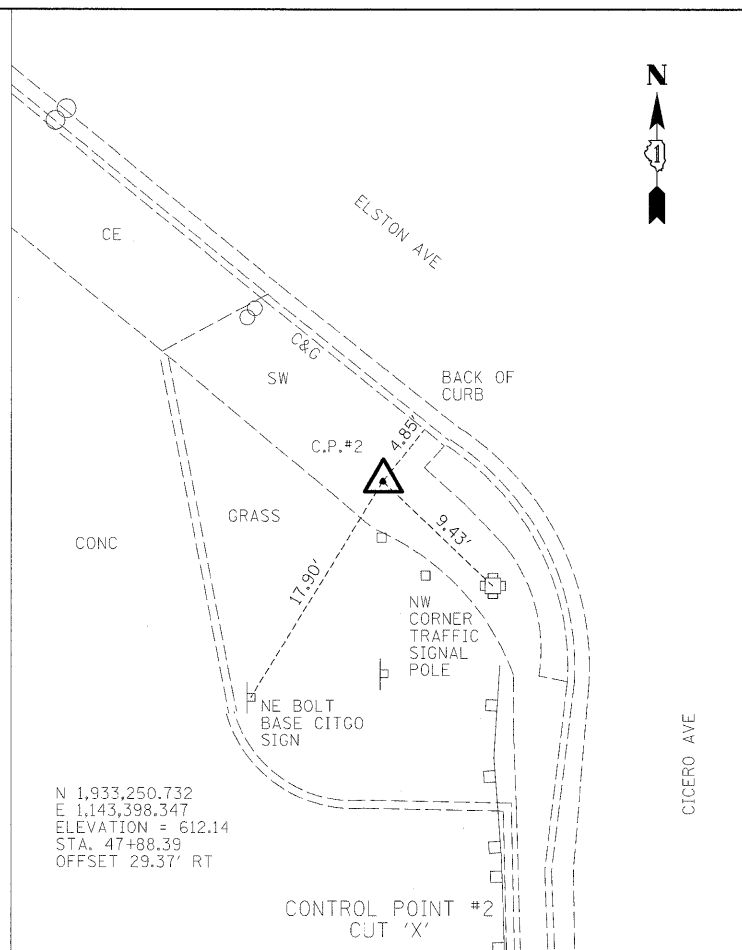
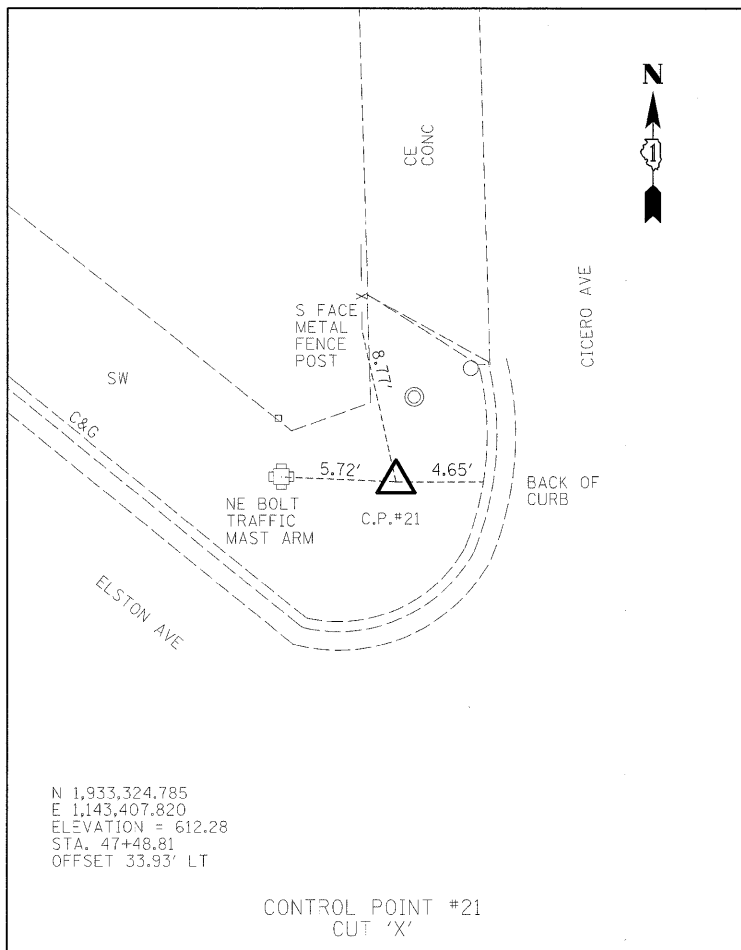
BM #2 ELEVATION = 612.29
 S. MOST BOLT ON FIRE HYDRANT IN FRONT OF FIRST AMERICAN BANK.
 STA. 52+60.34, 26.90' RT

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILEL#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

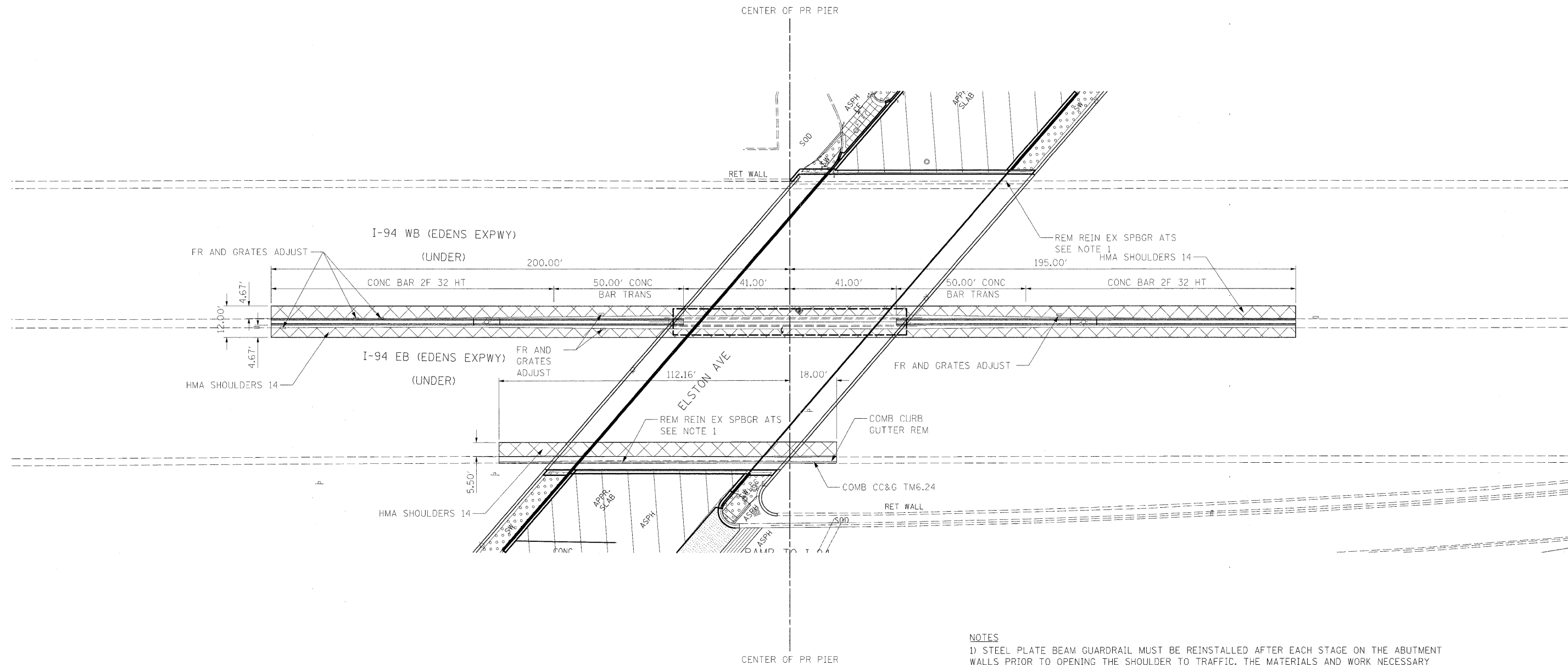
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT AND BENCHMARKS	
SCALE: 1:50	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	13
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				



FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONTROL POINT TIES		F.A.I. RTE. 94	SECTION 0101.BB	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 14	
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60C18			
	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



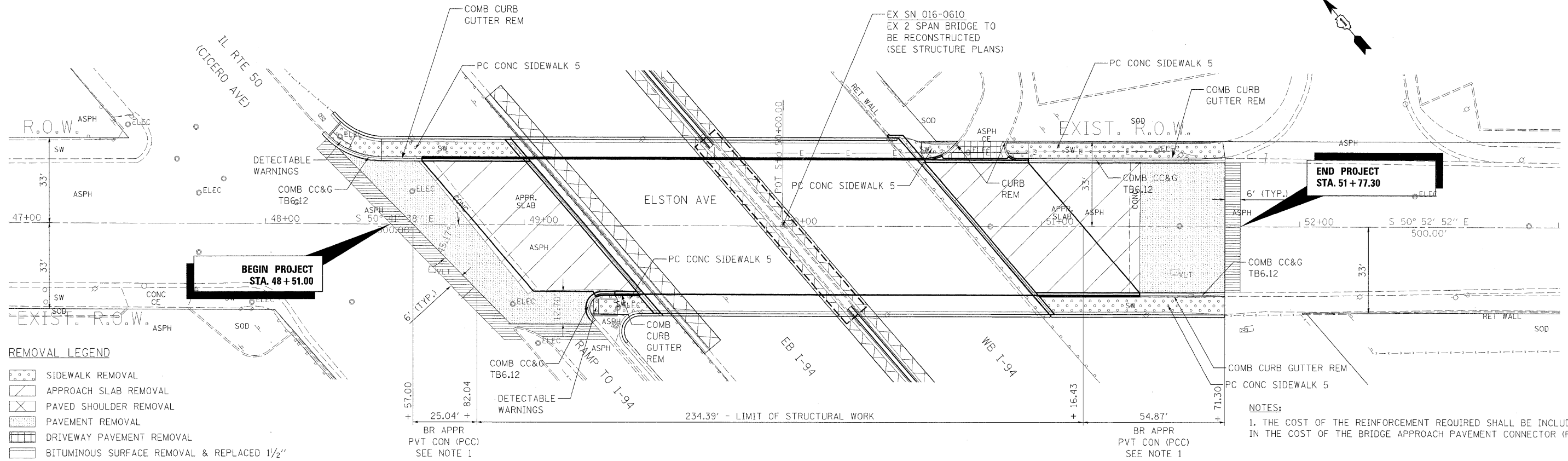
- REMOVAL LEGEND**
- SIDEWALK REMOVAL
 - APPROACH SLAB REMOVAL
 - PAVED SHOULDER REMOVAL
 - PAVEMENT REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL

NOTES
 1) STEEL PLATE BEAM GUARDRAIL MUST BE REINSTALLED AFTER EACH STAGE ON THE ABUTMENT WALLS PRIOR TO OPENING THE SHOULDER TO TRAFFIC. THE MATERIALS AND WORK NECESSARY FOR TEMPORARY CONNECTIONS AND TRANSITIONS SHALL BE INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION, (SPECIAL) PAY ITEM.

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN - I-94			F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 15
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1:20	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 60C18			
	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

PLAN
 SURVEYED BY: _____
 ALIGNED BY: _____
 CHECKED BY: _____
 DATE: _____

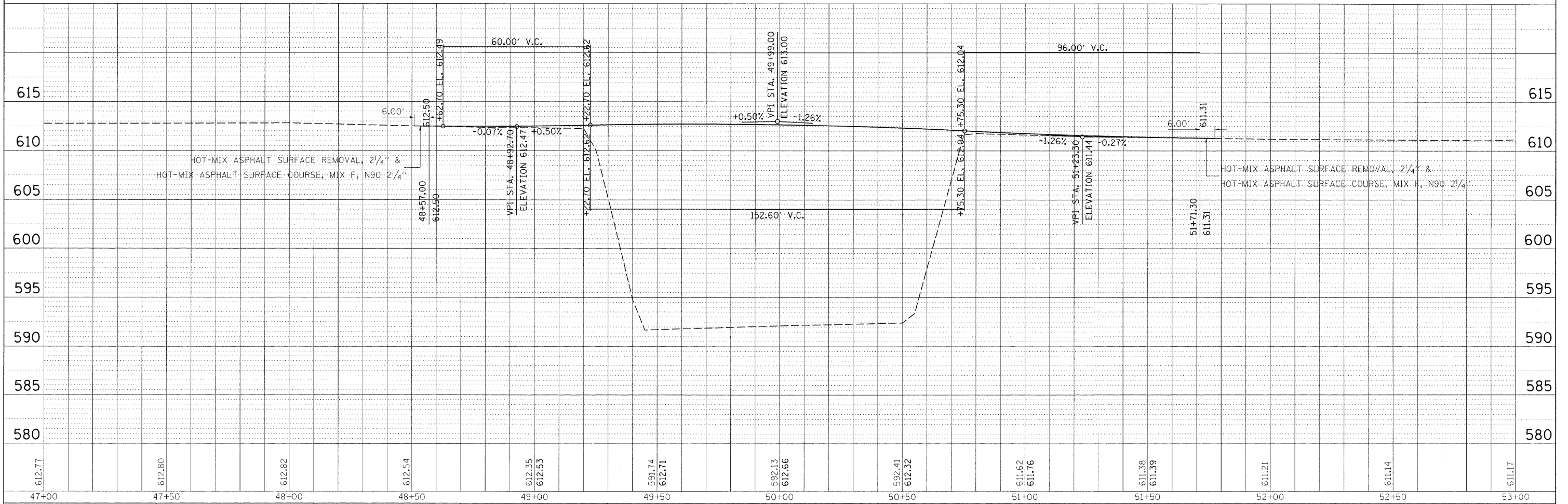
PROFILE
 SURVEYED BY: _____
 GRADES CHECKED BY: _____
 DATE: _____



REMOVAL LEGEND

- SIDEWALK REMOVAL
- APPROACH SLAB REMOVAL
- PAVED SHOULDER REMOVAL
- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- BITUMINOUS SURFACE REMOVAL & REPLACED 1/2"

NOTES:
 1. THE COST OF THE REINFORCEMENT REQUIRED SHALL BE INCLUDED IN THE COST OF THE BRIDGE APPROACH PAVEMENT CONNECTOR (PCC) SEE NOTE 1



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE
 ELSTON AVE**

FILE NAME = #FILEL*	USER NAME = #USER*	DESIGNED -	REVISED -	SCALE: 1:20	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 16
PLOT SCALE = #SCALE*	CHECKED -	REVISED -	CONTRACT NO. 60C18								
PLOT DATE = #DATE*	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								

STAGE 1 CONSTRUCTION

1. REMOVE SUPERSTRUCTURE CARRYING THE EB LANES OF ELSTON AVE.
2. CONSTRUCT NEW WEST ABUTMENT UNDERNEATH EB LANES OF ELSTON AVE.
3. REPAIR EAST ABUTMENT UNDER EB LANES OF ELSTON AVE.
4. CONSTRUCT TEMPORARY PAVEMENT AT WEST ABUTMENT UNDERNEATH EB LANES OF ELSTON AVE.

STAGE 1 NOTES

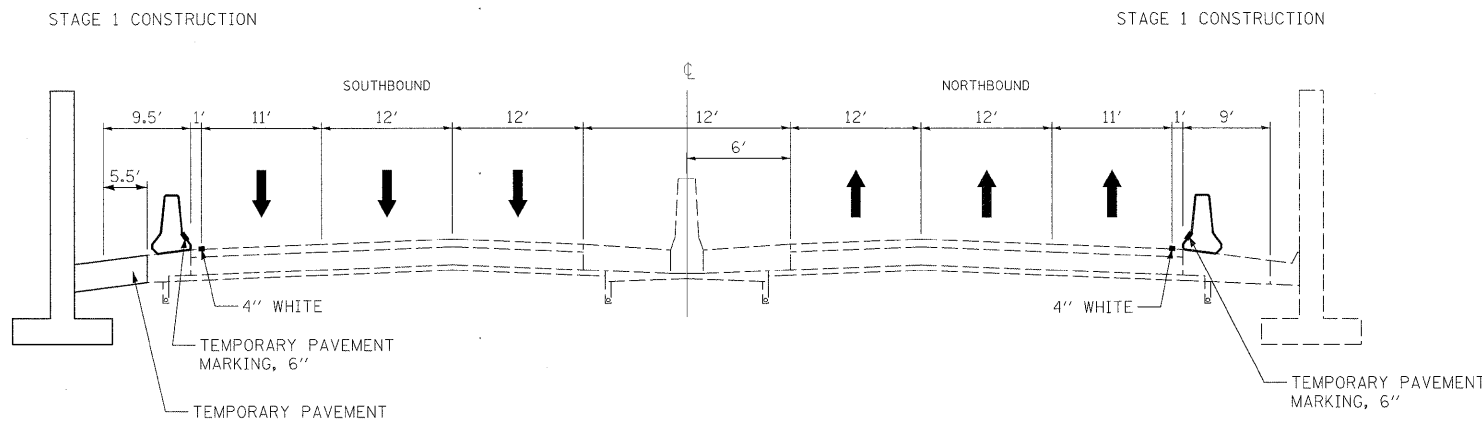
1. ON STREET PARKING ALONG THE WB LANE OF ELSTON AVE BETWEEN CARMEN AND IL RTE 50 (CICERO) WILL NEED TO BE RESTRICTED DUE TO THE SHIFTING OF TRAFFIC.
2. EXISTING BICYCLE LANE LOCATED ALONG THE WB LANE OF ELSTON AVE. WILL BE CLOSED DUE TO THE SHIFTED TRAFFIC FROM CARMEN AVE TO IL RTE 50 (CICERO).
3. ALL PEDESTRIAN TRAFFIC WILL HAVE TO USE THE SIDEWALK ALONG THE WB LANES OF ELSTON OVER THE BRIDGE DURING THIS STAGE SINCE THE SIDEWALK ALONG THE EB LANES WILL BE CLOSED.

STAGE 1 TRAFFIC

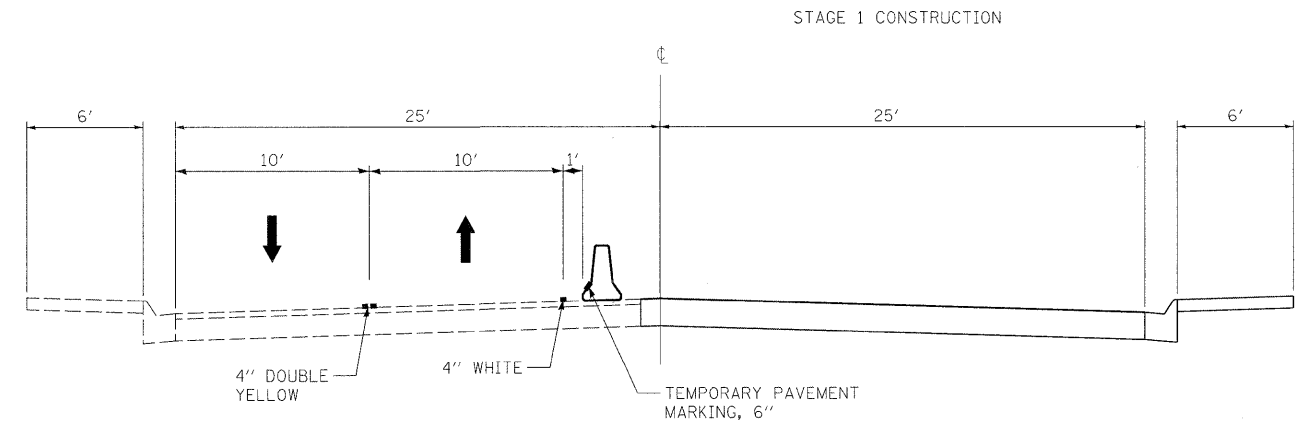
- I-94 (EDENS EXPWY)
- THE OUTSIDE SHOULDERS OF EB AND WB I-94 (EDENS EXPWY.) WILL BE CLOSED PER DISTRICT DETAIL TC-17.
- ELSTON RAMP TO EB I-94 (EDENS EXPWY.)
- RAMP WILL BE CLOSED. TRAFFIC WILL BE DETOURED.
- WB ELSTON AVE
- ONE 10' LANE WILL BE MAINTAINED FROM CARMEN AVE. TO KIMBERLY AVE BY SHIFTING WB TRAFFIC TO THE EXISTING WB DRIVING LANE. LEFT TURNS ONTO IL RTE 50 (CICERO AVE.) WILL BE PROHIBITED DURING THIS STAGE.
- EB ELSTON AVE.
- ONE 10' LANE WILL BE MAINTAINED FROM CARMEN AVE. TO KIMBERLY AVE BY SHIFTING EB TRAFFIC TO THE EXISTING WB PASSING LANE. LEFT TURNS ONTO IL RTE 50 (CICERO AVE) WILL BE PROHIBITED DURING THIS STAGE.
- NB IL RTE 50 (CICERO AVE.)
- DAILY LANE CLOSURES AND SHOULDER CLOSURES ARE ANTICIPATED FOR CORNER ISLAND OPERATIONS AND SHOULDER OPERATIONS PER HIGHWAY STANDARD 701701.

PROPOSED DETOURS

- RAMP TO EB I-94 (EDENS EXPWY.) DETOUR
1. WB ELSTON TRAFFIC TO RAMP WILL BE DETOURED VIA WB LAWRENCE AVE TO SB IL RTE 50 (CICERO AVE) TO EB WILSON AVE AT WHICH POINT TRAFFIC MAY ENTER EB I-94 (EDENS EXPWY) (DETOUR TO BE IN PLACE THROUGHOUT CONSTRUCTION)
 2. EB ELSTON AND SB IL RTE 50 (CICERO AVE.) TRAFFIC WILL BE DETOURED VIA SB IL RTE 50 (CICERO AVE) TO EB WILSON AVE AT WHICH POINT TRAFFIC MAY ENTER EB I-94 (EDENS EXPWY) (DETOUR ESTIMATED TO BE IN PLACE FOR 20 WEEKS.)
- WB ELSTON AVE TO SB IL RTE 50 (CICERO)
 - WB ELSTON TRAFFIC TO SB IL RTE 50 (CICERO AVE) WILL BE DETOURED VIA WB ELSTON TO EB FOSTER AT WHICH POINT TRAFFIC MAY GO SB ON IL RTE 50 (CICERO AVE) (DETOUR TO BE IN PLACE THROUGHOUT CONSTRUCTION)

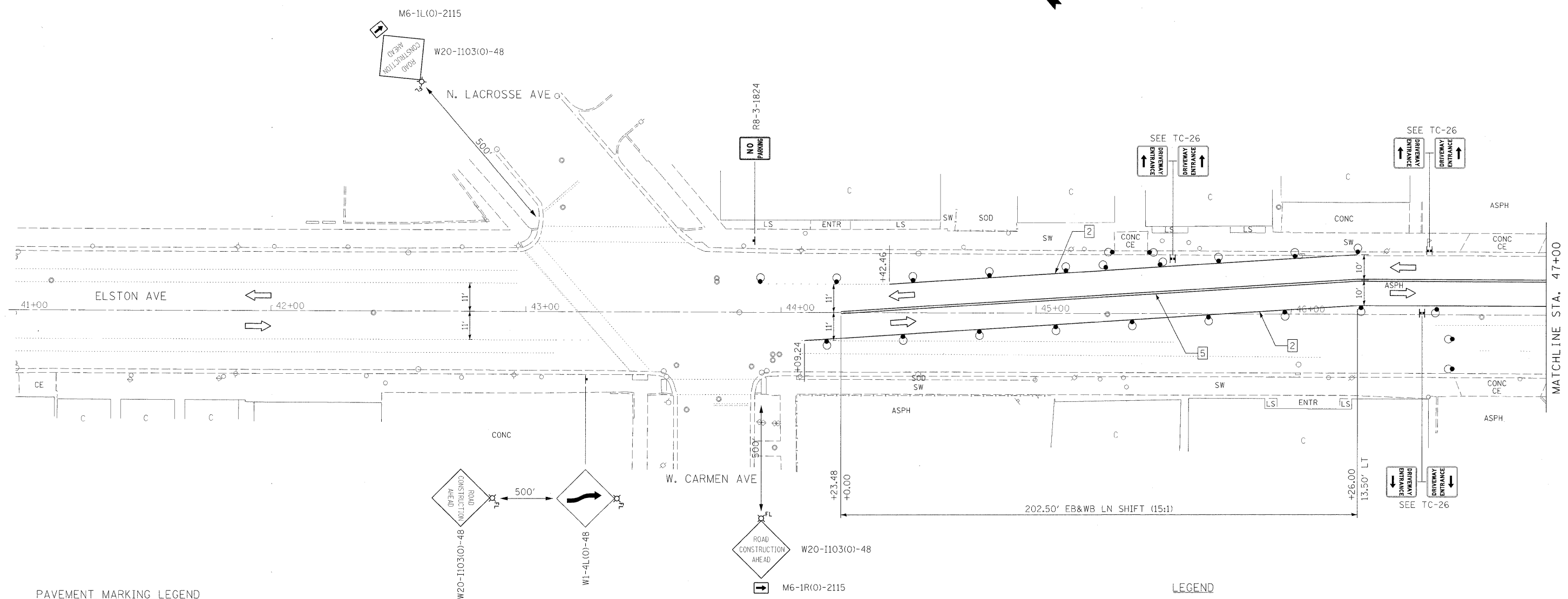
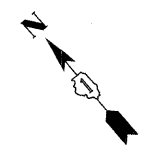


STAGE 1 - TYPICAL SECTION - I-94



STAGE 1 - TYPICAL SECTION - ELSTON

FILE NAME = #F11.F1#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1 - I-94				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -		94	0101.8B	COOK	139	17				
	PLOT DATE = #DATE#	DATE -	REVISED -		CONTRACT NO. 60C18				ILLINOIS FED. AID PROJECT				
				SCALE: NTS		SHEET NO. 1 OF 5 SHEETS		STA. TO STA.					



- PAVEMENT MARKING LEGEND**
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
 - 3 - 12" WHITE, WET REFLECTIVE, TYPE III
 - 4 - 24" WHITE, WET REFLECTIVE, TYPE III
 - 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

- LEGEND**
- ARROW BOARD
 - DIRECTION OF TRAFFIC
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - FLASHING LIGHT
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - WORK ZONE

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1 - ELSTON AVE**

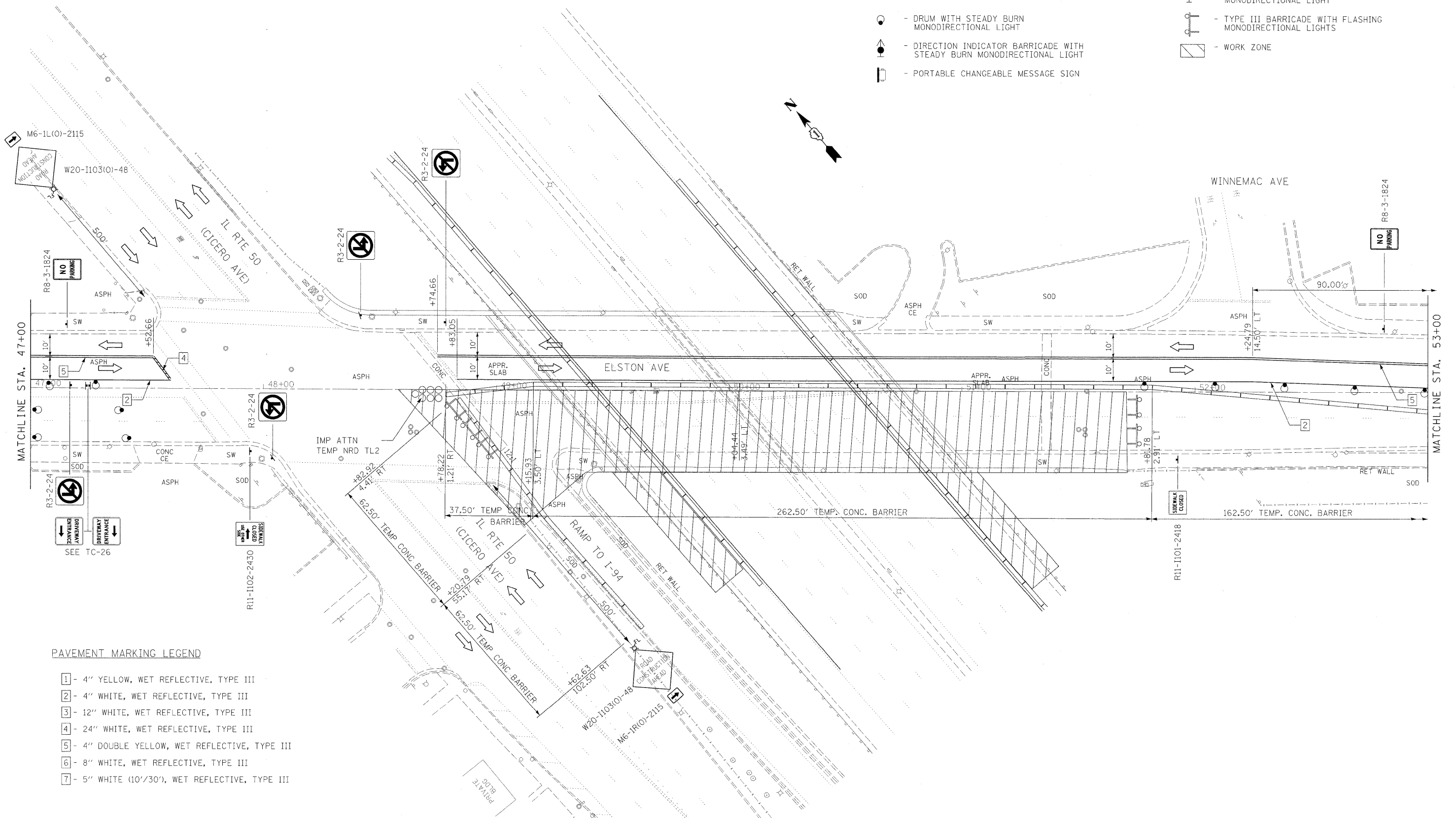
SCALE: 1:20 SHEET NO. 3 OF 5 SHEETS STA. 41+00 TO STA. 47+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	19
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				

NOTE
SEE STAGE 1 - I-94 SHEETS FOR MOT ON I-94.

LEGEND

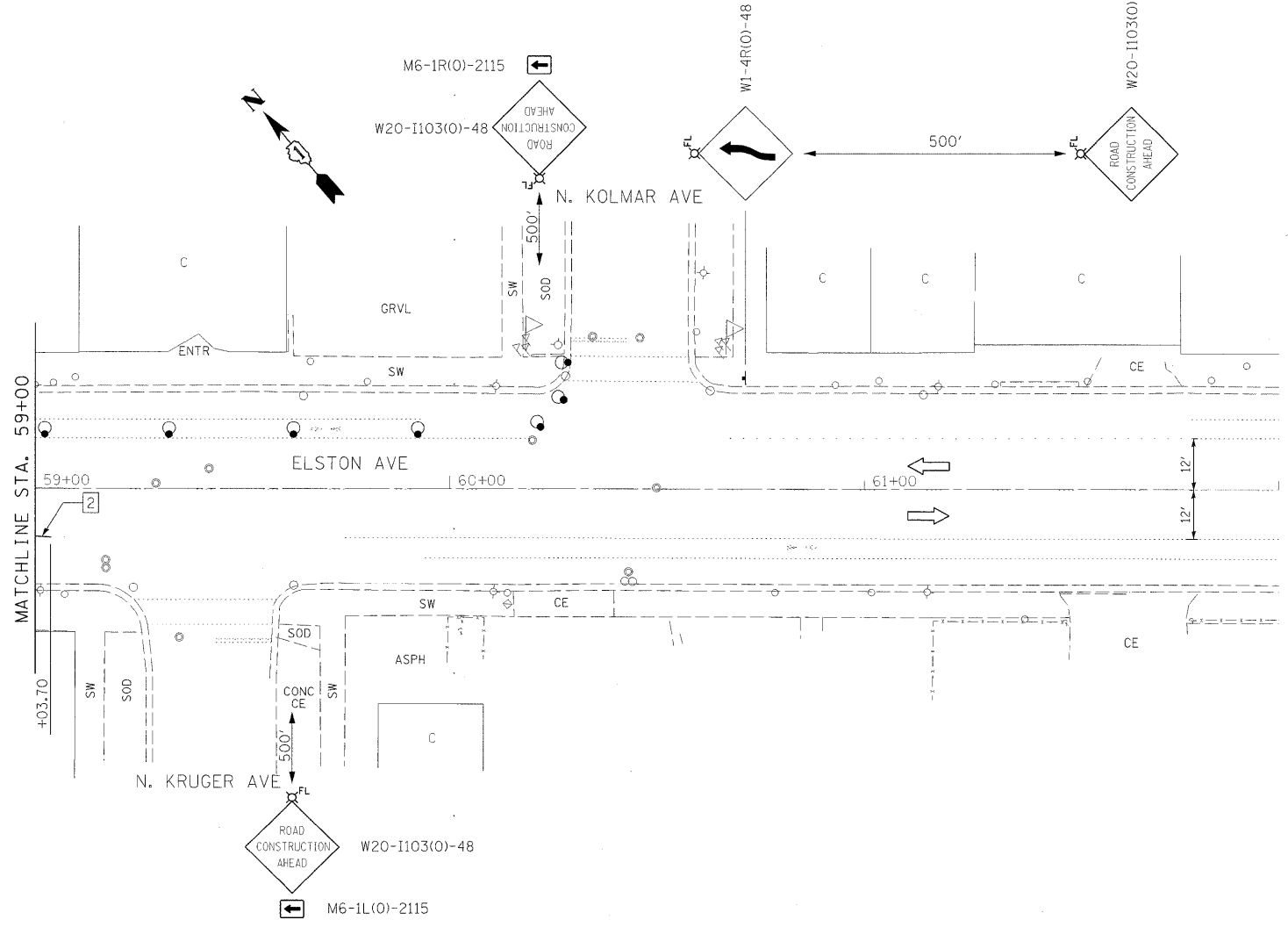
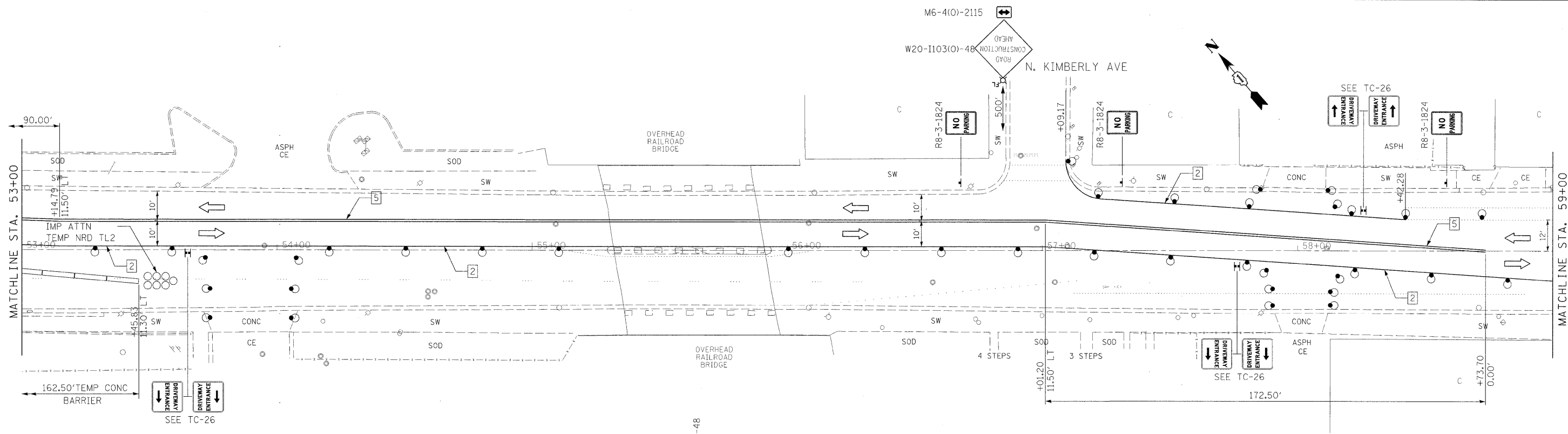
- ➔ - ARROW BOARD
- ➔ - DIRECTION OF TRAFFIC
- ⊙ - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⬆ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ☐ - PORTABLE CHANGEABLE MESSAGE SIGN
- ⚡ - FLASHING LIGHT
- - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⊙ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- ▨ - WORK ZONE



PAVEMENT MARKING LEGEND

- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
- 2 - 4" WHITE, WET REFLECTIVE, TYPE III
- 3 - 12" WHITE, WET REFLECTIVE, TYPE III
- 4 - 24" WHITE, WET REFLECTIVE, TYPE III
- 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
- 6 - 8" WHITE, WET REFLECTIVE, TYPE III
- 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

FILE NAME - *FILEL*	USER NAME - *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1 - ELSTON AVE		F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 20	
	PLOT SCALE - *SCALE*	DRAWN -	REVISED -		SCALE: 1:20	SHEET NO. 4 OF 5 SHEETS	STA. 47+00 TO STA. 53+00	CONTRACT NO. 60C18		ILLINOIS FED. AID PROJECT		
	PLOT DATE - *DATE*	CHECKED -	REVISED -									
		DATE -	REVISED -									



- PAVEMENT MARKING LEGEND**
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
 - 3 - 12" WHITE, WET REFLECTIVE, TYPE III
 - 4 - 24" WHITE, WET REFLECTIVE, TYPE III
 - 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

- LEGEND**
- ARROW BOARD
 - DIRECTION OF TRAFFIC
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - FLASHING LIGHT
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - WORK ZONE

FILE NAME - #FILE#	USER NAME - #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1 - ELSTON AVE			F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 21
	PLLOT SCALE - #SCALE#	DRAWN -	REVISED -		SCALE: 1:20	SHEET NO. 5 OF 5 SHEETS	STA. 53+00 TO STA. 59+00	CONTRACT NO. 60C18				
	PLLOT DATE - #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

STAGE 1A CONSTRUCTION

1. CONSTRUCT NEW CENTER PIER UNDERNEATH EASTBOUND LANES OF ELSTON AVE.
2. CONSTRUCT SUPERSTRUCTURE CARRY THE EASTBOUND LANES OF ELSTON AVE.
3. INSTALL TEMPORARY LIGHTING AND SURVEILLANCE RUNAROUND, REMOVE AND REPLACE BARRIER WALL AS REQUIRED FOR CONSTRUCTION OPERATIONS.

STAGE 1A TRAFFIC

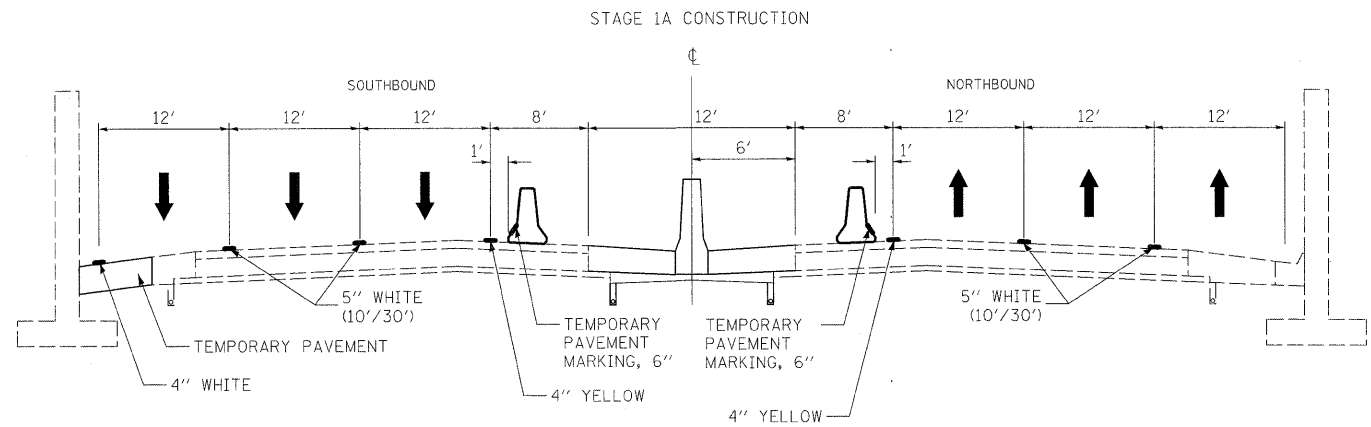
- I-94 (EDENS EXPWY)

THE OUTSIDE SHOULDERS WILL BE USED TO WEAVE TRAFFIC ONTO USING DISTRICT DETAIL TC-09 FOR A MULTILANE WEAVE SO THE INSIDE LANES OF EB & WB I-94 (EDENS EXPWY.) CAN BE CLOSED. SHOULDER RUMBLE STRIPS TO BE FILLED AND REINSTALLED AT END OF CONSTRUCTION FROM BEGINNING TO END OF TAPERS. ONCE CENTER PIER IS CONSTRUCTED AND BEAMS PLACED ALL LANES SHALL BE OPENED.

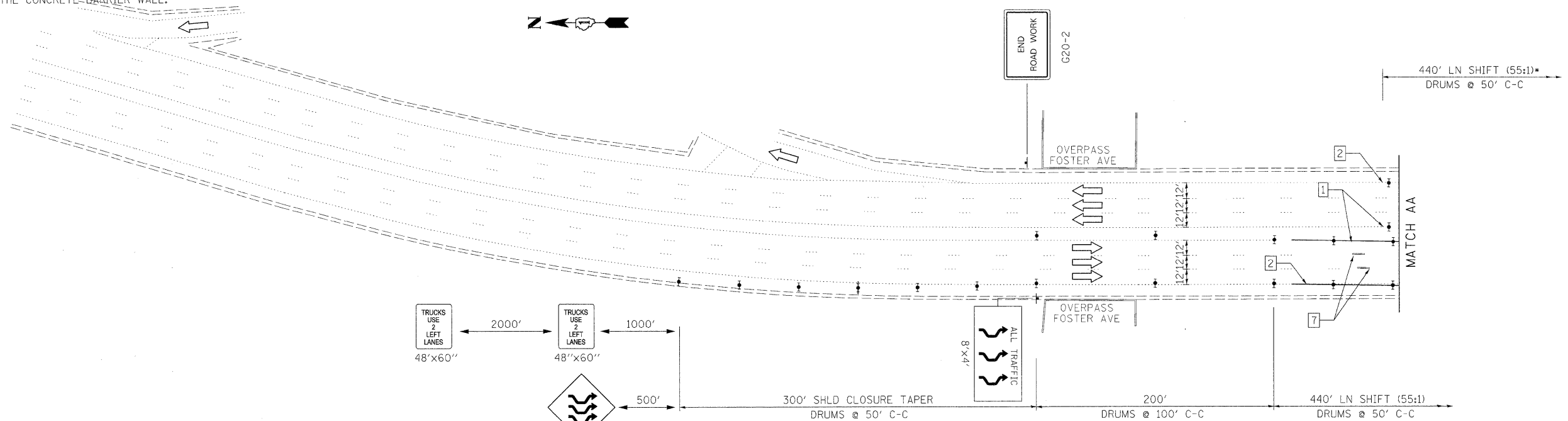
- TRAFFIC ON ALL OTHER ROADS WILL REMAIN THE SAME AS DURING STAGE 1.

STAGE 1A NOTES

- 1 THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- 2 THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- 3 THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED"/"X MILES AHEAD"
"LEFT LANE CLOSED"/"X MILES AHEAD"
"ALL LANES OPEN"
"TRUCKS USE TWO LEFT LANES ONLY"
- 4 THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- 5 SEE TC-09 FOR ADDITIONAL DETAILS REQUIRED FOR INSTALLATION
- 6 TO PROTECT TEMPORARY WOODEN POLES FOR TEMPORARY LIGHTING INSTALLED REPLACE CONCRETE BARRIER WALL AROUND THE WOOD POLE BEFORE EXPOSING TO TRAFFIC. COST TO BE INCLUDED IN THE LINEAL FOR FOOT COST FOR THE CONCRETE BARRIER WALL.



STAGE 1A - TYPICAL SECTION - I-94
SCALE: NTS



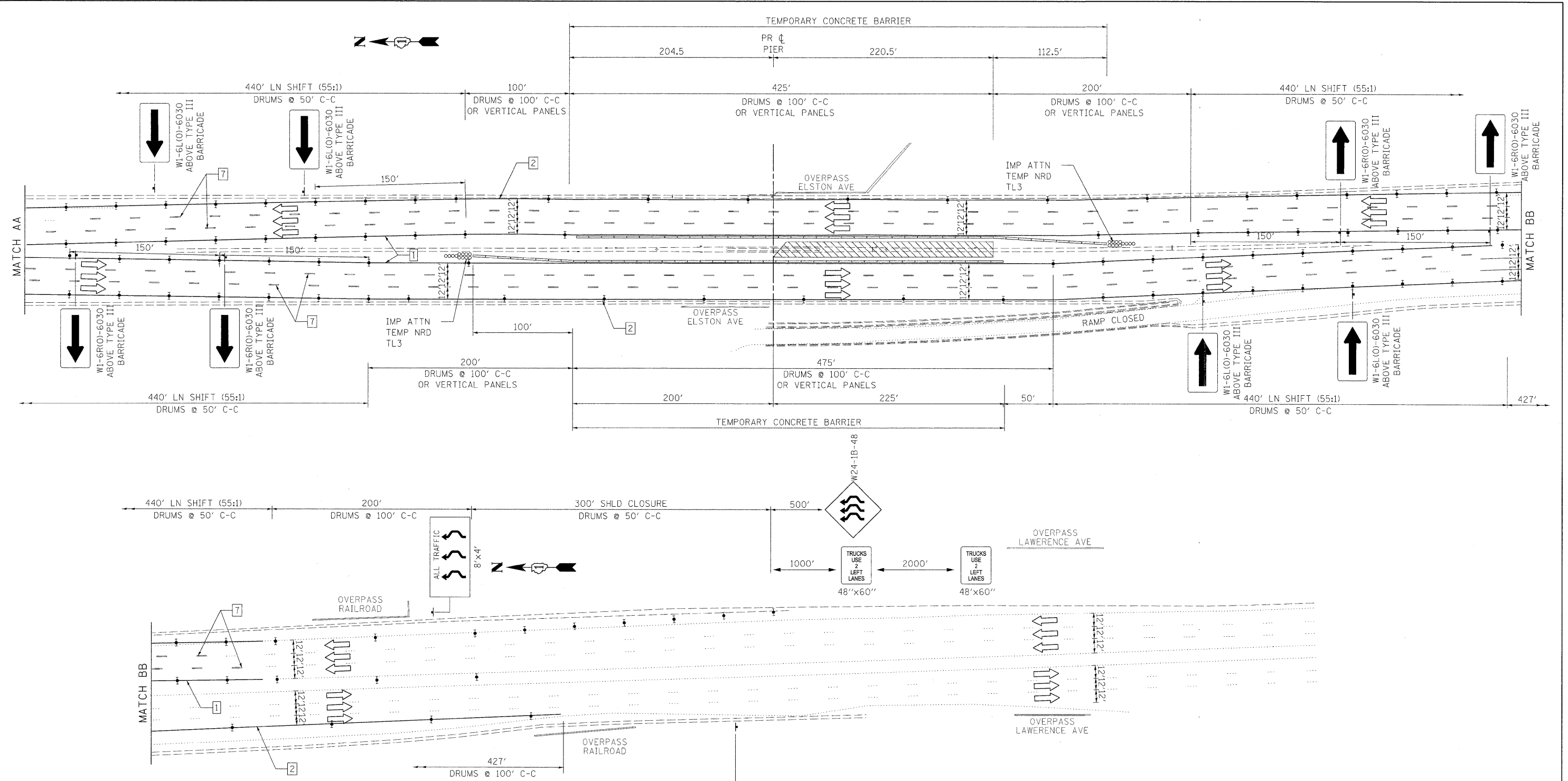
PAVEMENT MARKING LEGEND

- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
- 2 - 4" WHITE, WET REFLECTIVE, TYPE III
- 3 - 12" WHITE, WET REFLECTIVE, TYPE III
- 4 - 24" WHITE, WET REFLECTIVE, TYPE III
- 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
- 6 - 8" WHITE, WET REFLECTIVE, TYPE III
- 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

LEGEND

- ➔ - ARROW BOARD
- ➔ - DIRECTION OF TRAFFIC
- - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▲ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ☐ - PORTABLE CHANGEABLE MESSAGE SIGN
- ⚡ - FLASHING LIGHT
- - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ☐ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- ▨ - WORK ZONE

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 1A - I-94			F.A.I. RTE. 94	SECTION 0101.BB	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 22
		DRAWN -	REVISED -		SCALE: 1:50	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 60C18				
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		PLOT DATE = \$DATE\$	DATE -									



- PAVEMENT MARKING LEGEND**
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
 - 3 - 12" WHITE, WET REFLECTIVE, TYPE III
 - 4 - 24" WHITE, WET REFLECTIVE, TYPE III
 - 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

- LEGEND**
- ➔ - ARROW BOARD
 - ➡ - DIRECTION OF TRAFFIC
 - ⦿ - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ⦿ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ☐ - PORTABLE CHANGEABLE MESSAGE SIGN
 - ⚡ - FLASHING LIGHT
 - - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ⦿ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - ▨ - WORK ZONE

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 1A - I-94**

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

F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 23
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				

STAGE 2 CONSTRUCTION

1. REMOVE SUPERSTRUCTURE CARRYING THE WB LANES OF ELSTON AVE.
2. CONSTRUCT NEW WEST ABUTMENT UNDERNEATH WB LANES OF ELSTON AVE.
3. REPAIR EAST ABUTMENT UNDER WB LANES OF ELSTON AVE.

STAGE 2 NOTES

1. ON STREET PARKING ALONG THE EB LANE OF ELSTON AVE BETWEEN CARMEN AND IL RTE 50 (CICERO) WILL NEED TO BE RESTRICTED DUE TO THE SHIFTING OF TRAFFIC.
2. EXISTING BICYCLE LANE LOCATED ALONG THE EB LANE OF ELSTON AVE, WILL BE CLOSED DUE TO THE SHIFTED TRAFFIC FROM CARMEN AVE TO IL RTE 50 (CICERO).
3. ALL PEDESTRIAN TRAFFIC WILL HAVE TO USE THE SIDEWALK ALONG THE EB LANES OF ELSTON OVER THE BRIDGE DURING THIS STAGE SINCE THE SIDEWALK ALONG THE WB LANES WILL BE CLOSED.

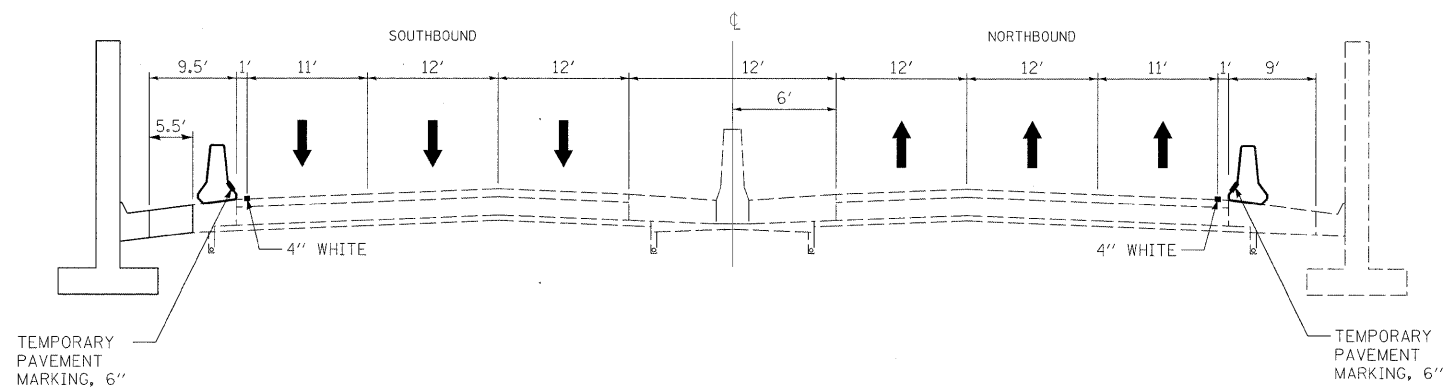
STAGE 2 TRAFFIC

- I-94 (EDENS EXPWY)
THE OUTSIDE SHOULDERS OF EB AND WB I-94 (EDENS EXPWY.) WILL BE CLOSED PER DISTRICT DETAIL TC-17.
 - ELSTON RAMP TO EB I-94 (EDENS EXPWY.)
RAMP WILL BE OPENED TO EB TRAFFIC. WB TRAFFIC WILL BE PROHIBITED FROM USING THIS RAMP.
 - WB ELSTON AVE
ONE 10' LANE WILL BE MAINTAINED FROM CARMEN AVE. TO KIMBERLY AVE BY SHIFTING WB TRAFFIC TO THE PROPOSED EB PASSING LANE. LEFT TURNS ONTO IL RTE 50 (CICERO AVE.) WILL BE PROHIBITED DURING THIS STAGE.
 - EB ELSTON AVE.
ONE 10' LANE WILL BE MAINTAINED FROM CARMEN AVE. TO KIMBERLY AVE BY SHIFTING EB TRAFFIC TO THE PROPOSED EB DRIVING LANE. LEFT TURNS ONTO IL RTE 50 (CICERO AVE) WILL BE PROHIBITED DURING THIS STAGE.
 - NB IL RTE 50 (CICERO AVE.)
DAILY LANE CLOSURES AND SHOULDER CLOSURES ARE ANTICIPATED FOR CORNER ISLAND OPERATIONS AND SHOULDER OPERATIONS PER HIGHWAY STANDARD 701701.
- PROPOSED DETOURS
- RAMP TO EB I-94 (EDENS EXPWY.) DETOUR FOR WB ELSTON
 - 1. WB ELSTON TRAFFIC TO RAMP WILL BE DETOURED VIA WB LAWRENCE AVE TO SB IL RTE 50 (CICERO AVE) TO EB WILSON AVE AT WHICH POINT TRAFFIC MAY ENTER EB I-94 (EDENS EXPWY)
 - WB ELSTON AVE TO SB IL RTE 50 (CICERO)
 - 1. WB ELSTON TRAFFIC TO SB IL RTE 50 (CICERO AVE) WILL BE DETOURED VIA WB ELSTON TO EB FOSTER AT WHICH POINT TRAFFIC MAY GO SB ON IL RTE 50 (CICERO AVE)

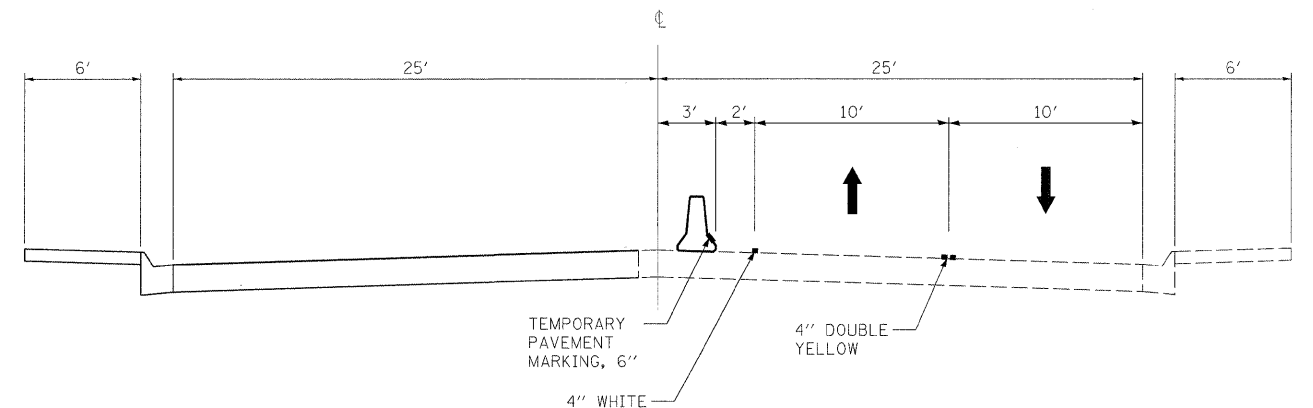
STAGE 2 CONSTRUCTION

STAGE 2 CONSTRUCTION

STAGE 2 CONSTRUCTION

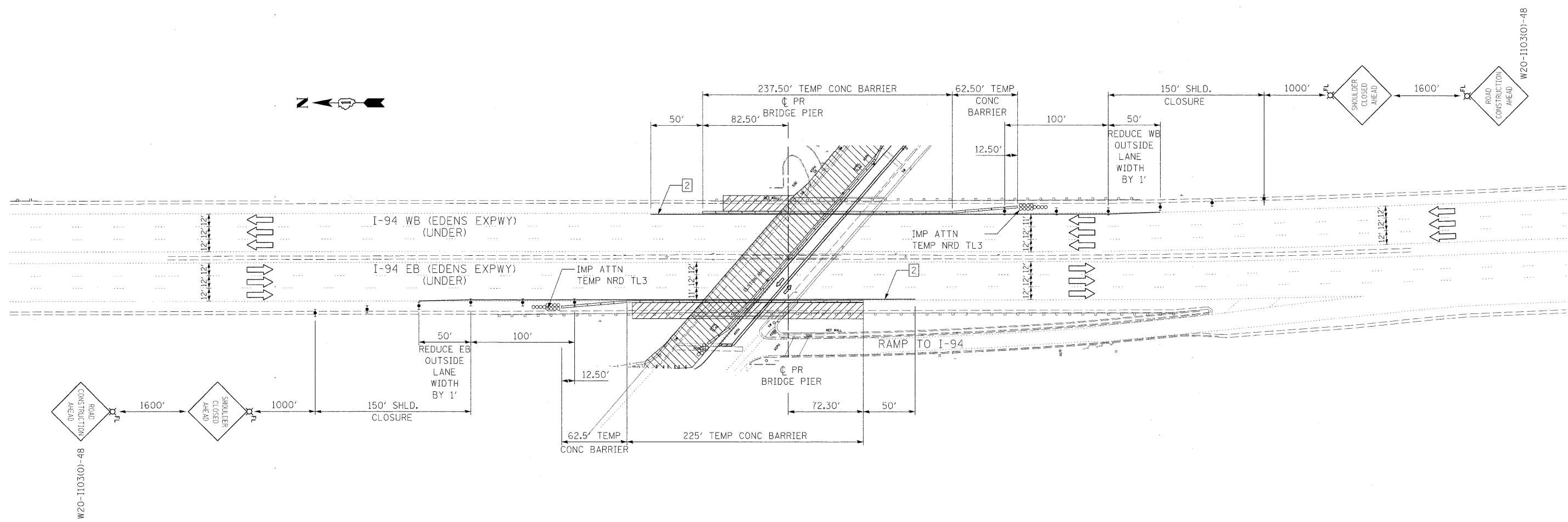


STAGE 2 - TYPICAL SECTION - I-94



STAGE 2 - TYPICAL SECTION - ELSTON

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	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: NTS	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.	94	0101.8B	COOK	139	24
	PLOT DATE = #DATE#	CHECKED -	REVISED -		CONTRACT NO. 60C18								
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



W20-1103(0)-48

W20-1103(0)-48

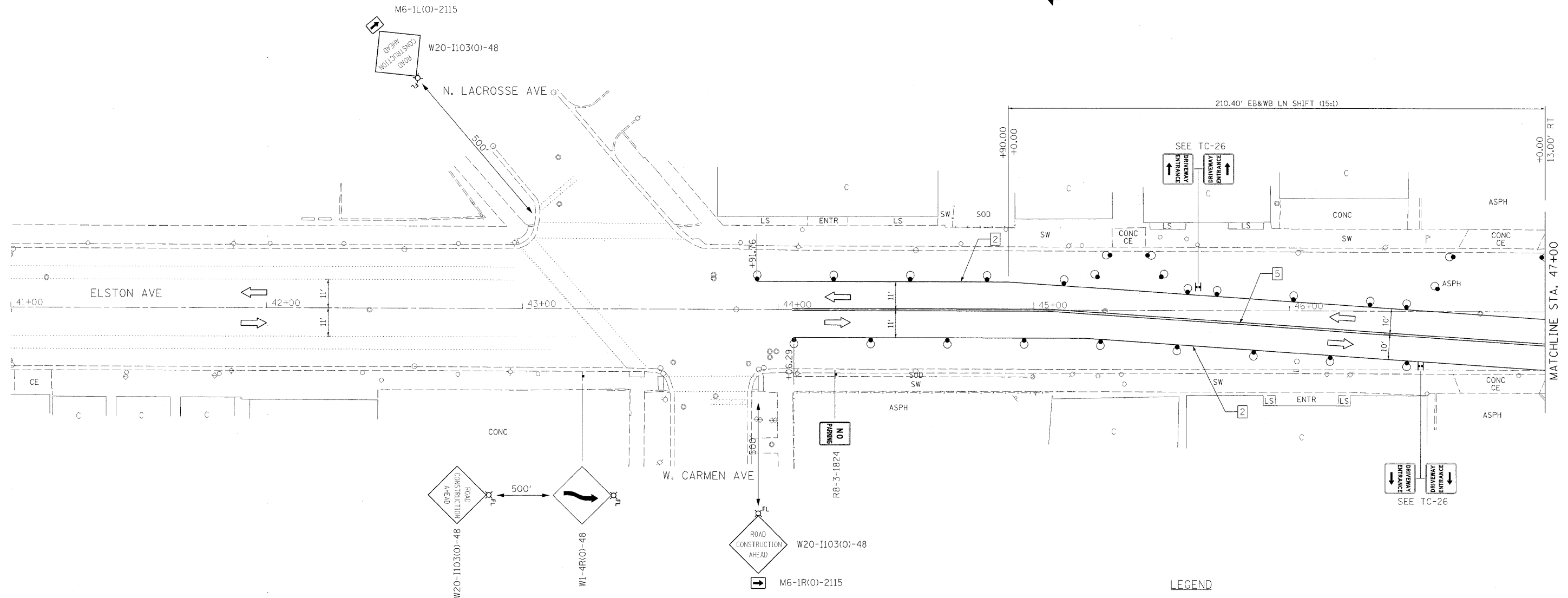
PAVEMENT MARKING LEGEND

- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
- 2 - 4" WHITE, WET REFLECTIVE, TYPE III
- 3 - 12" WHITE, WET REFLECTIVE, TYPE III
- 4 - 24" WHITE, WET REFLECTIVE, TYPE III
- 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
- 6 - 8" WHITE, WET REFLECTIVE, TYPE III
- 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

LEGEND

- ➔ - ARROW BOARD
- ⚡ - FLASHING LIGHT
- ➞ - DIRECTION OF TRAFFIC
- - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⦿ - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⚡ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- ⬆️ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ▭ - WORK ZONE
- 🗣️ - PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2 - I-94	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN -	REVISED -			94	0101.8B	COOK	139	25
		CHECKED -	REVISED -			CONTRACT NO. 60C18				
		DATE -	REVISED -		SCALE: 1:50	SHEET NO. 2 OF 5 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT



PAVEMENT MARKING LEGEND

- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
- 2 - 4" WHITE, WET REFLECTIVE, TYPE III
- 3 - 12" WHITE, WET REFLECTIVE, TYPE III
- 4 - 24" WHITE, WET REFLECTIVE, TYPE III
- 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
- 6 - 8" WHITE, WET REFLECTIVE, TYPE III
- 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

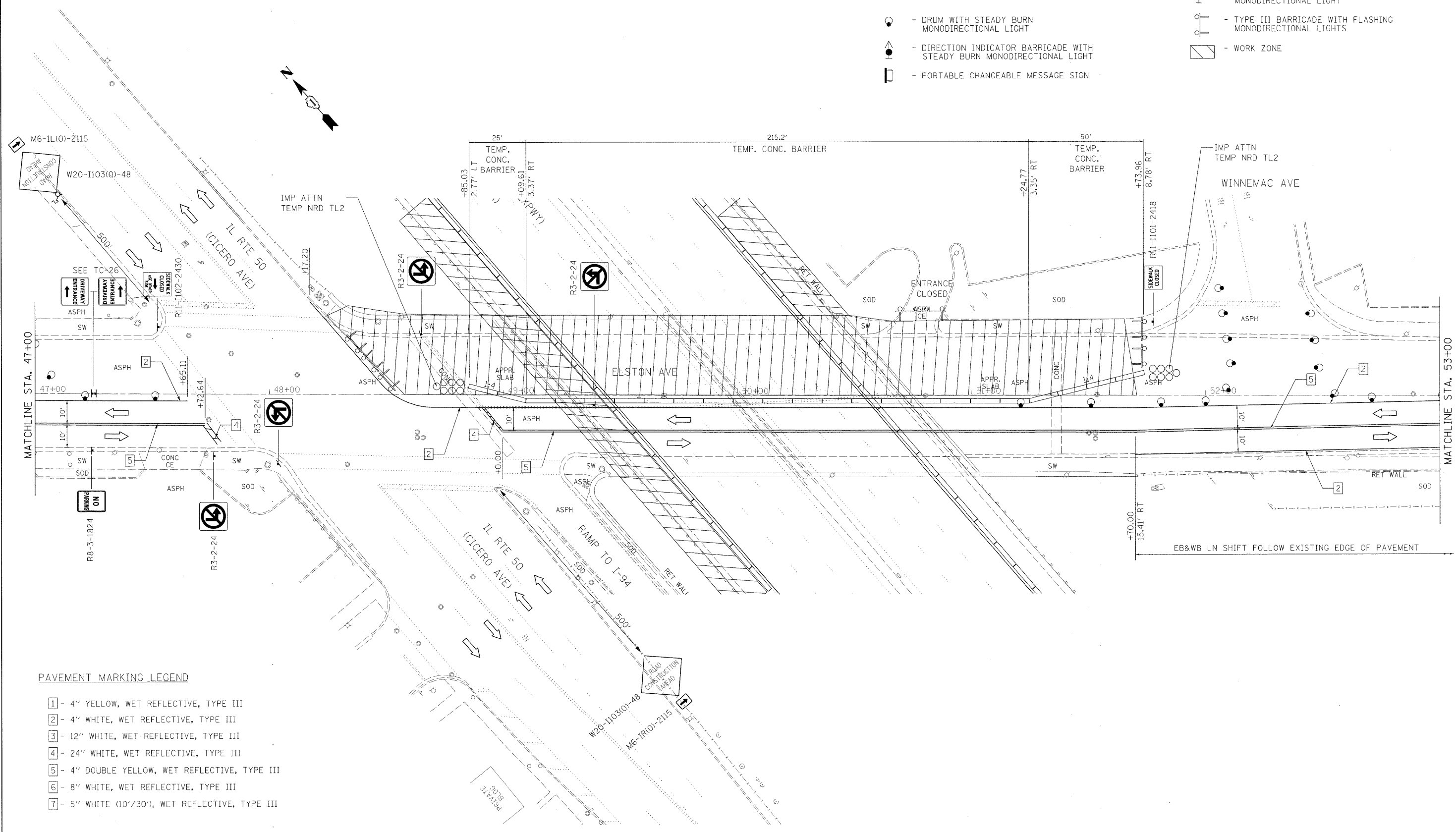
LEGEND

- ARROW BOARD
- DIRECTION OF TRAFFIC
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- PORTABLE CHANGEABLE MESSAGE SIGN
- FLASHING LIGHT
- TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- WORK ZONE

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2 - ELSTON AVE			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = #DATE#	CHECKED -	REVISED -	SCALE: 1:20		SHEET NO. 3 OF 5 SHEETS	STA. 41+00 TO STA. 47+00	CONTRACT NO. 60C18		ILLINOIS FED. AID PROJECT			
	DATE -	REVISED -										

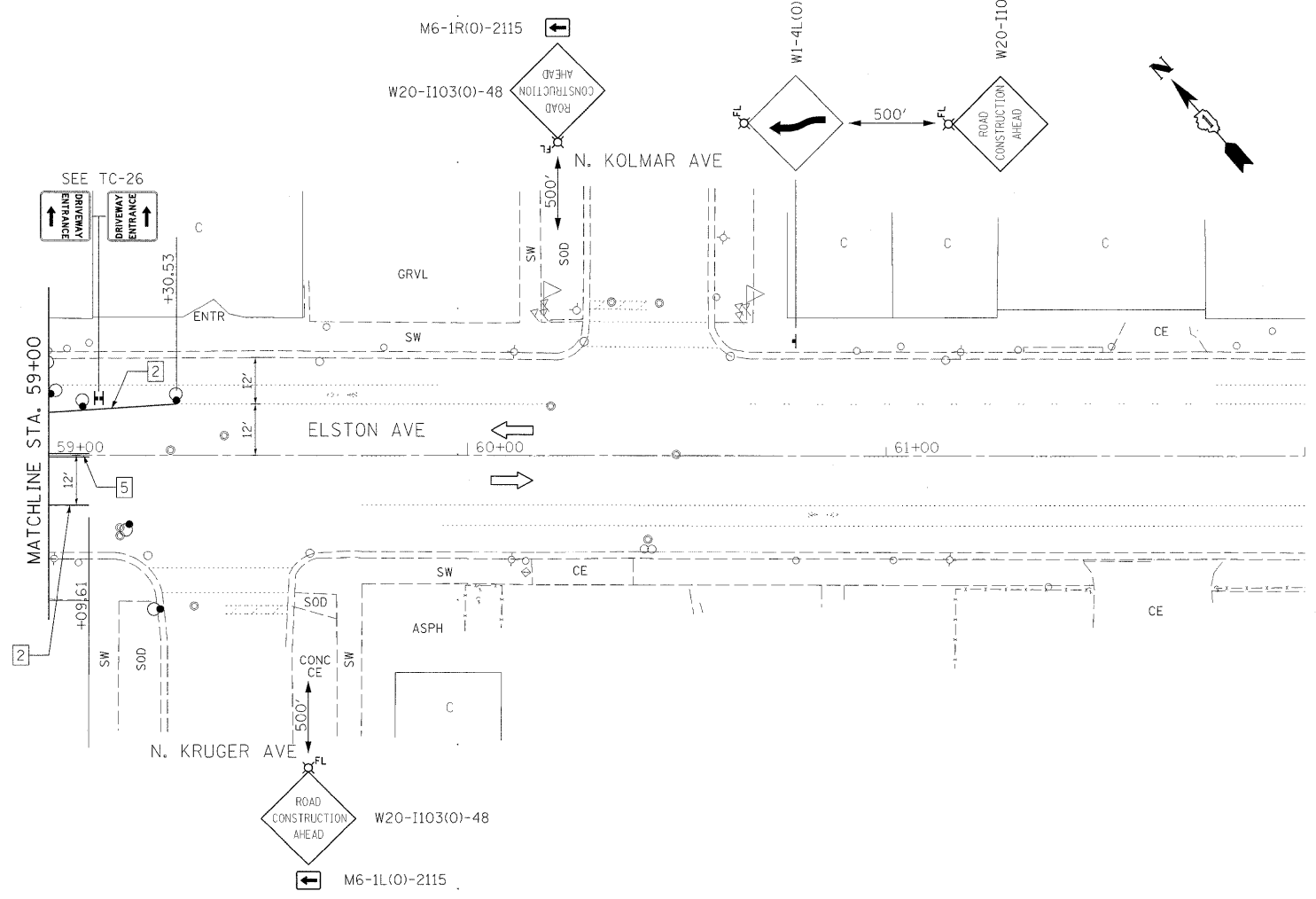
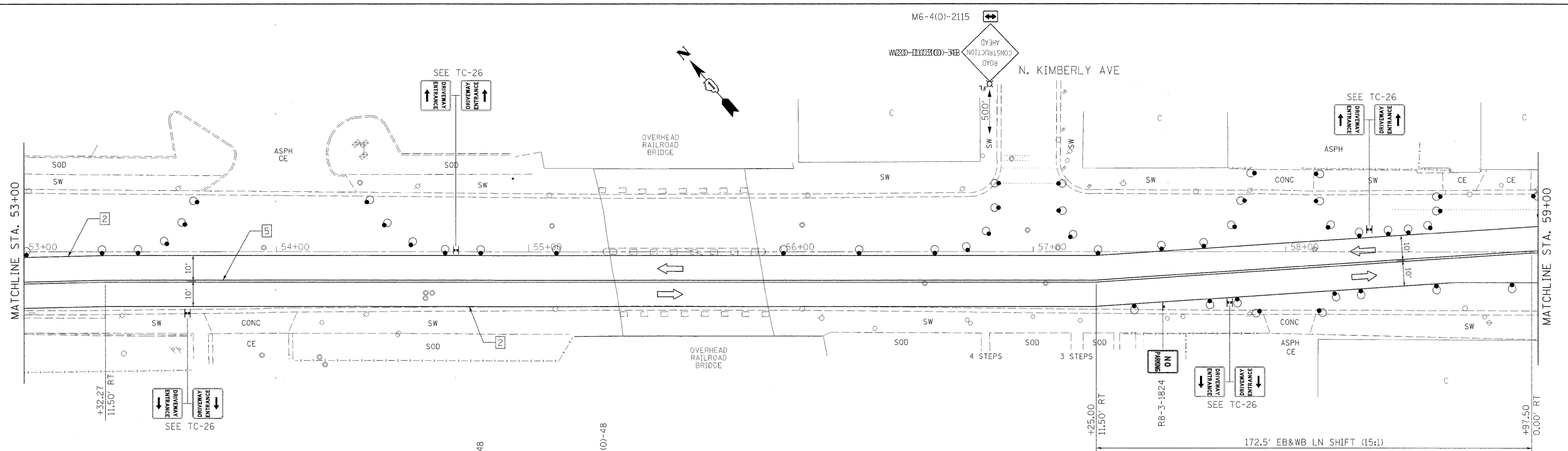
LEGEND

- ➔ - ARROW BOARD
- ➔ - DIRECTION OF TRAFFIC
- ⦿ - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⬆️ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- 📄 - PORTABLE CHANGEABLE MESSAGE SIGN
- ⚡ - FLASHING LIGHT
- ⦿ - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⦿ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
- ▨ - WORK ZONE



- PAVEMENT MARKING LEGEND
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
 - 3 - 12" WHITE, WET REFLECTIVE, TYPE III
 - 4 - 24" WHITE, WET REFLECTIVE, TYPE III
 - 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

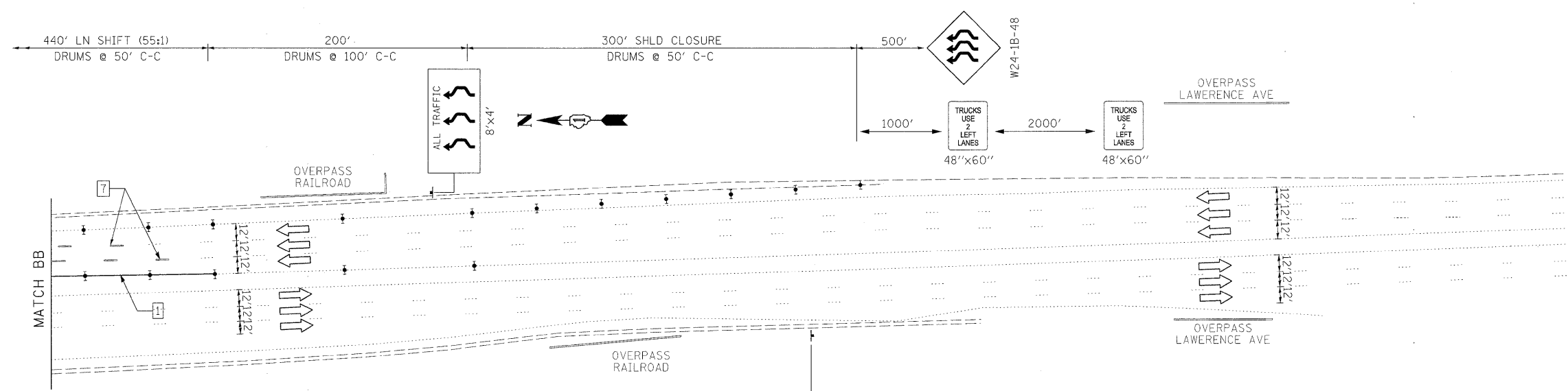
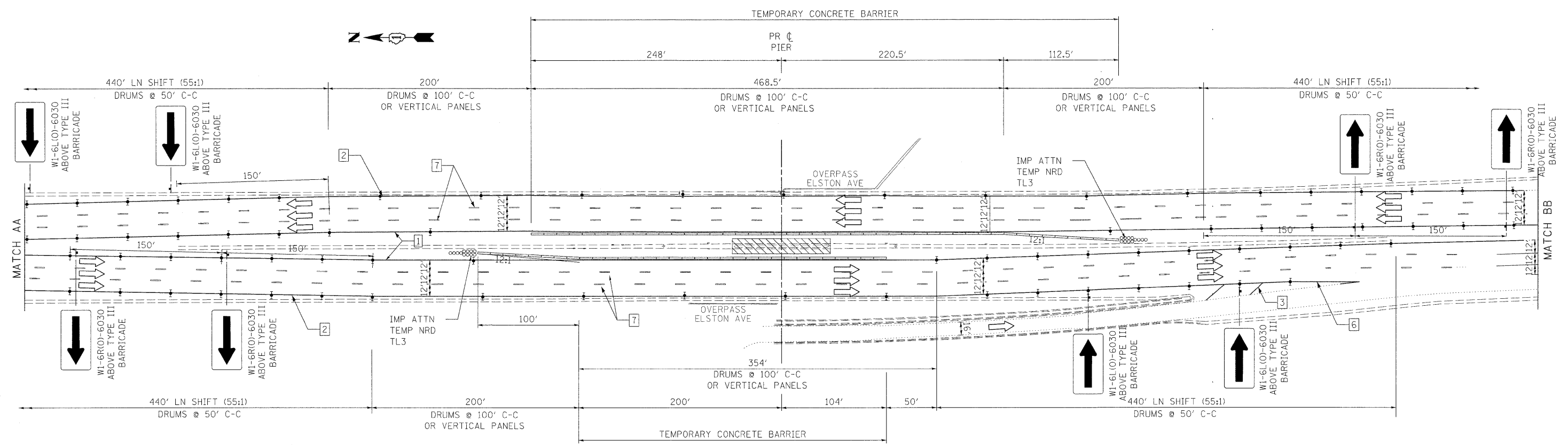
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PLOT SCALE = #SCALE#		CHECKED -	REVISED -		SCALE: 1:20	SHEET NO. 4 OF 5 SHEETS	STA. 47+00 TO STA. 53+00	CONTRACT NO. 60C18				
PLOT DATE = #DATE#		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



- PAVEMENT MARKING LEGEND**
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
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 - 5 - 4" DOUBLE YELLOW, WET REFLECTIVE, TYPE III
 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

- LEGEND**
- ARROW BOARD
 - DIRECTION OF TRAFFIC
 - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - PORTABLE CHANGEABLE MESSAGE SIGN
 - FLASHING LIGHT
 - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - WORK ZONE

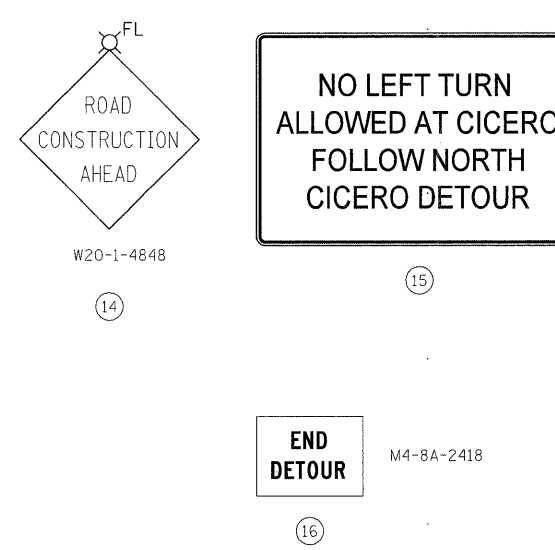
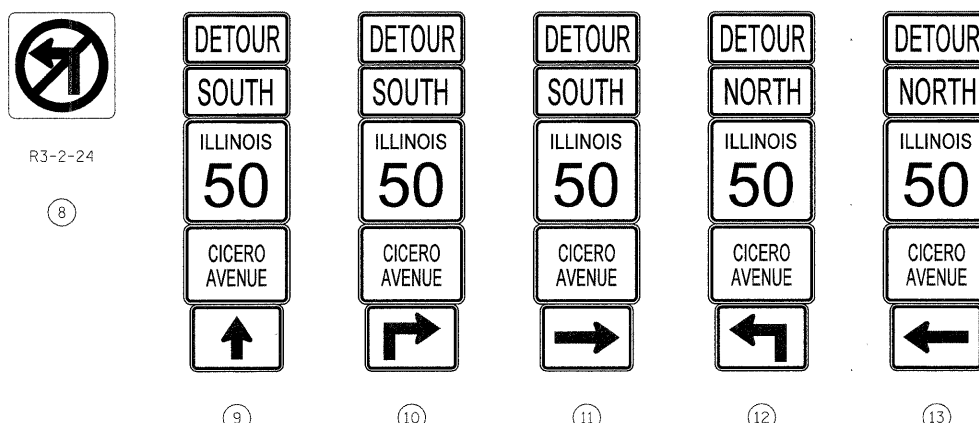
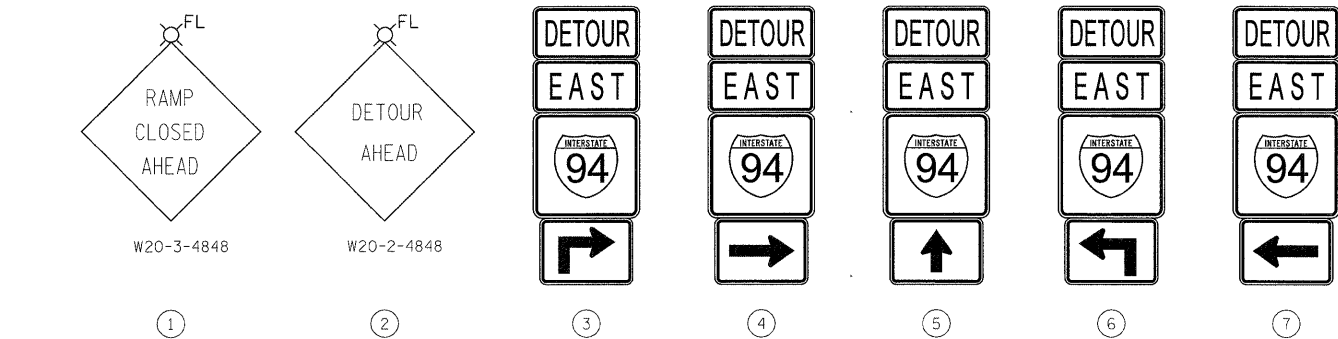
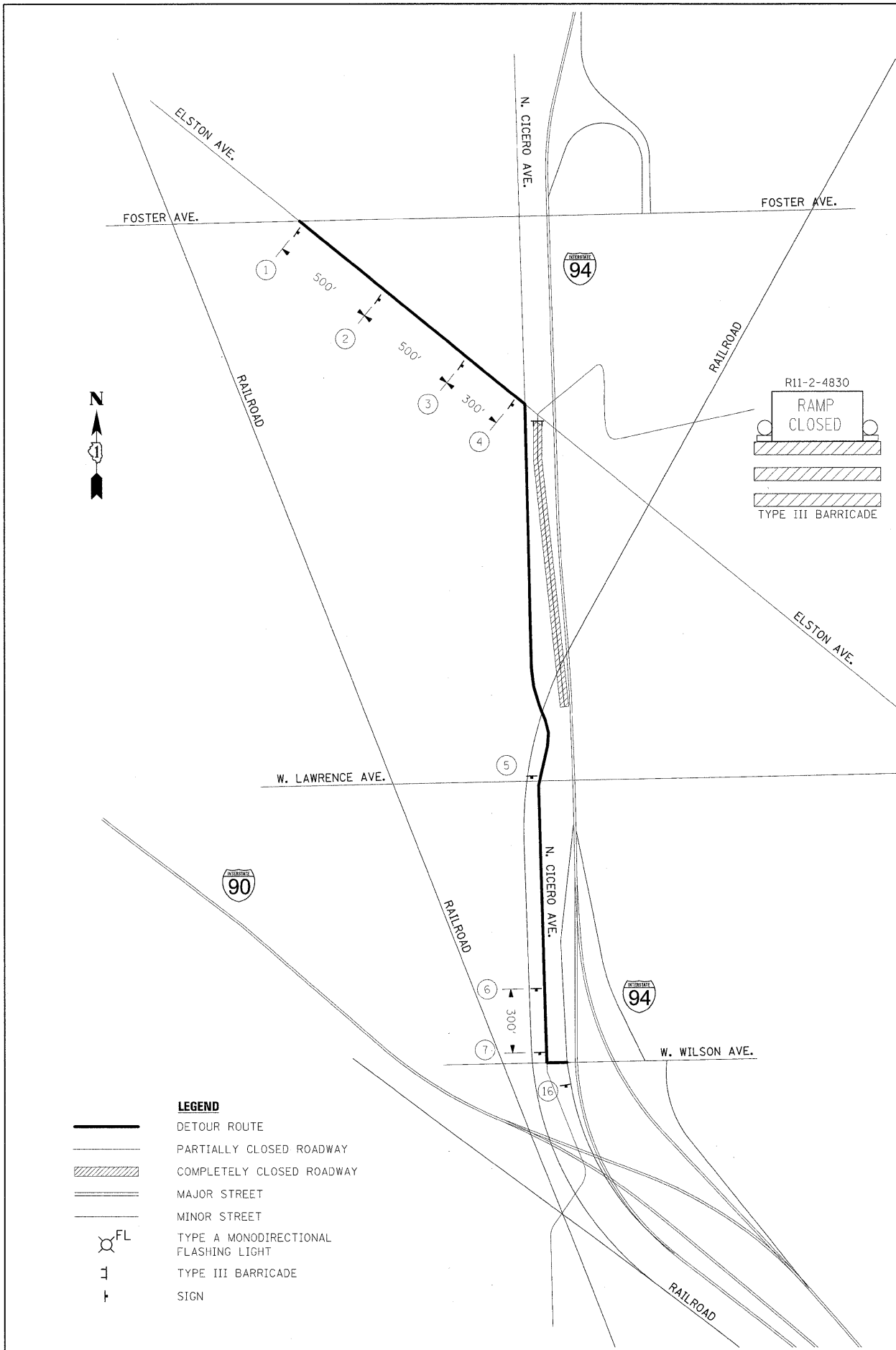
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	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		94	0101.BB	COOK	139	28		
PLOT DATE = #DATE#	CHECKED -	REVISED -	REVISED -		SCALE: 1:20 SHEET NO. 5 OF 5 SHEETS STA. 53+00 TO STA. 59+00			CONTRACT NO. 60C18			
	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT						



- PAVEMENT MARKING LEGEND**
- 1 - 4" YELLOW, WET REFLECTIVE, TYPE III
 - 2 - 4" WHITE, WET REFLECTIVE, TYPE III
 - 3 - 12" WHITE, WET REFLECTIVE, TYPE III
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 - 6 - 8" WHITE, WET REFLECTIVE, TYPE III
 - 7 - 5" WHITE (10'/30'), WET REFLECTIVE, TYPE III

- LEGEND**
- ➔ - ARROW BOARD
 - ➔ - DIRECTION OF TRAFFIC
 - - DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ⬆ - DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ☐ - PORTABLE CHANGEABLE MESSAGE SIGN
 - ⚡ - FLASHING LIGHT
 - - TYPE II BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
 - ⚡ - TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS
 - ▨ - WORK ZONE

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STAGE 2A - I-94			F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 30
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1:50	SHEET NO. 2 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 60C18				
	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



ROUTE MARKERS

FOR INTERSTATE ROUTES MI-1-2424

FOR U.S. ROUTES MI-1100

UNMARKED ROUTES SPECIAL 24" X 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1R-2115

M6-1L-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

M3-1-2412

M3-2-2412

M3-3-2412

M3-4-2412

M4-8-2412

LEGEND

— DETOUR ROUTE

— PARTIALLY CLOSED ROADWAY

▨ COMPLETELY CLOSED ROADWAY

— MAJOR STREET

— MINOR STREET

FL TYPE A MONODIRECTIONAL FLASHING LIGHT

— TYPE III BARRICADE

— SIGN

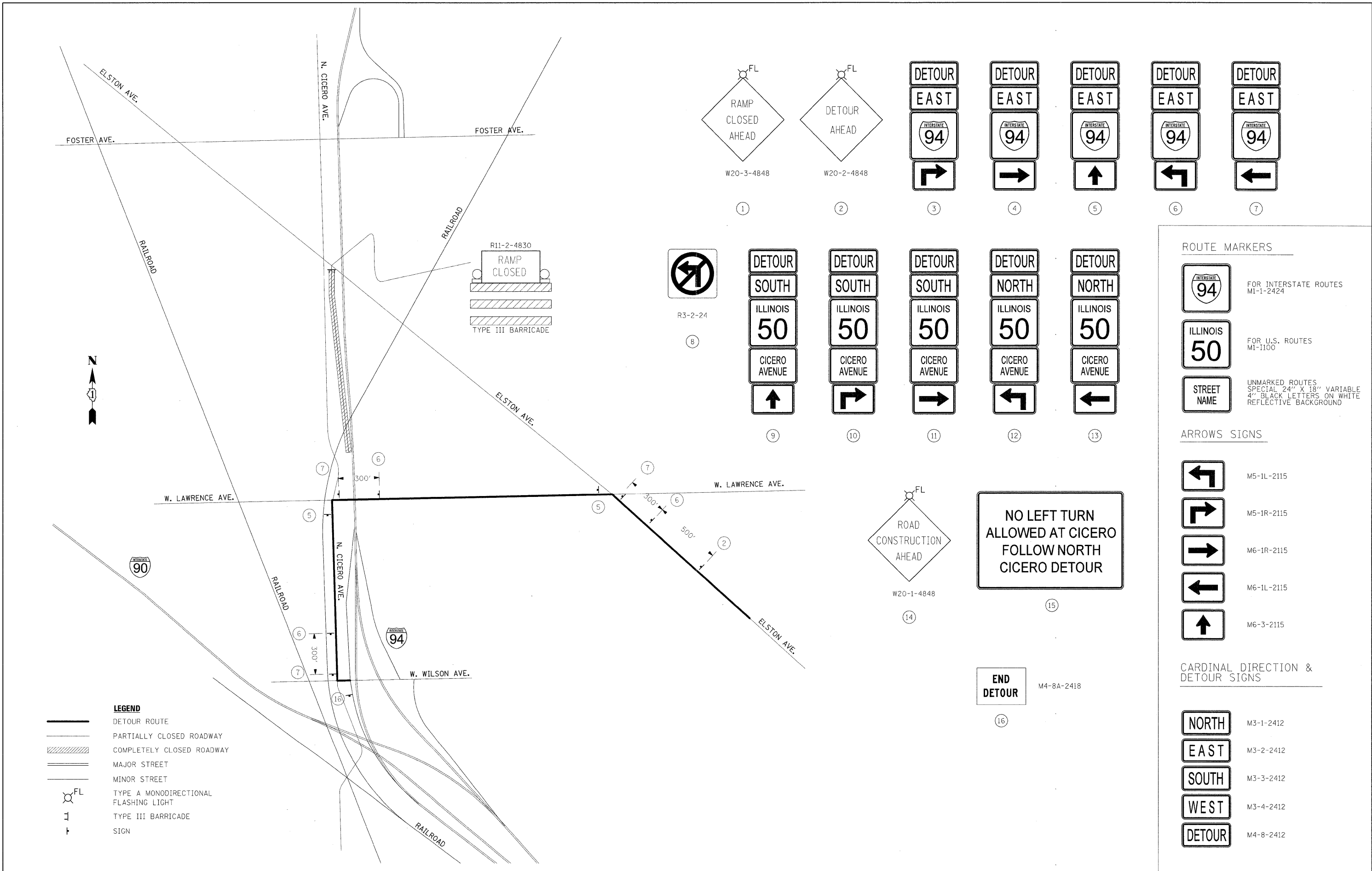
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN STAGE 1
EAST ELSTON AVE. TO EAST I-94**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 31
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				



① RAMP CLOSED AHEAD W20-3-4848

② DETOUR AHEAD W20-2-4848

③ DETOUR EAST INTERSTATE 94

④ DETOUR EAST INTERSTATE 94

⑤ DETOUR EAST INTERSTATE 94

⑥ DETOUR EAST INTERSTATE 94

⑦ DETOUR EAST INTERSTATE 94

⑧ R3-2-24

⑨ DETOUR SOUTH ILLINOIS 50 CICERO AVENUE

⑩ DETOUR SOUTH ILLINOIS 50 CICERO AVENUE

⑪ DETOUR SOUTH ILLINOIS 50 CICERO AVENUE

⑫ DETOUR NORTH ILLINOIS 50 CICERO AVENUE

⑬ DETOUR NORTH ILLINOIS 50 CICERO AVENUE

⑭ ROAD CONSTRUCTION AHEAD W20-1-4848

⑮ NO LEFT TURN ALLOWED AT CICERO FOLLOW NORTH CICERO DETOUR

⑯ END DETOUR M4-8A-2418

ROUTE MARKERS

INTERSTATE 94 FOR INTERSTATE ROUTES MI-1-2424

ILLINOIS 50 FOR U.S. ROUTES MI-1100

STREET NAME UNMARKED ROUTES SPECIAL 24" X 18" VARIABLE 4" BLACK LETTERS ON WHITE REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1R-2115

M6-1L-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412

LEGEND

— DETOUR ROUTE

— PARTIALLY CLOSED ROADWAY

▨ COMPLETELY CLOSED ROADWAY

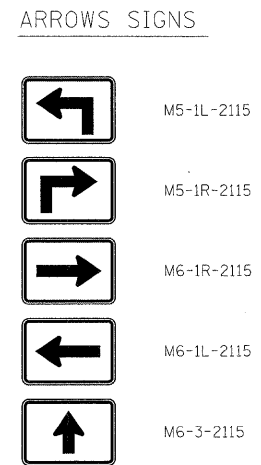
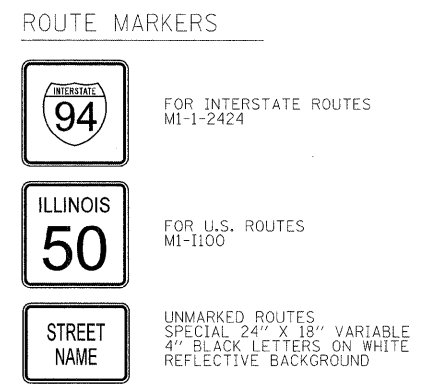
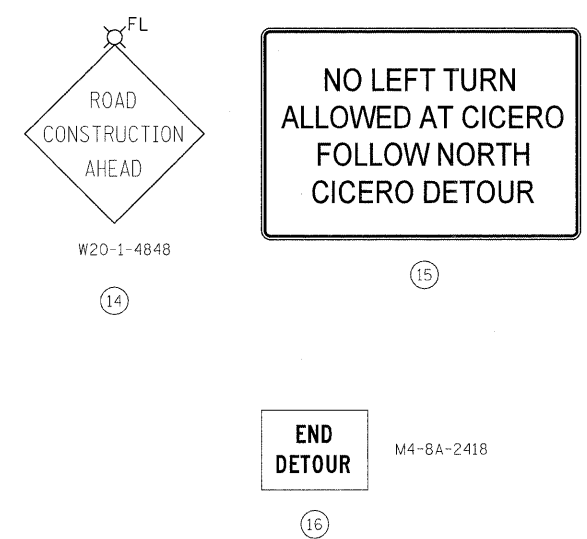
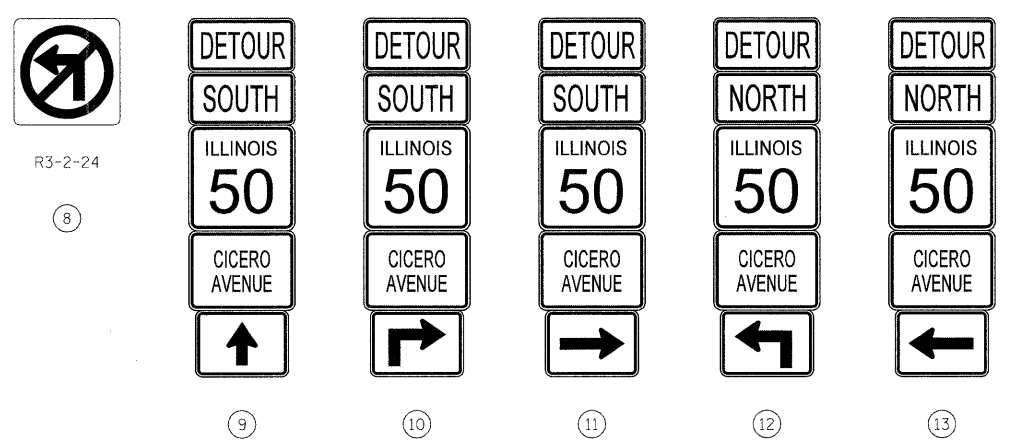
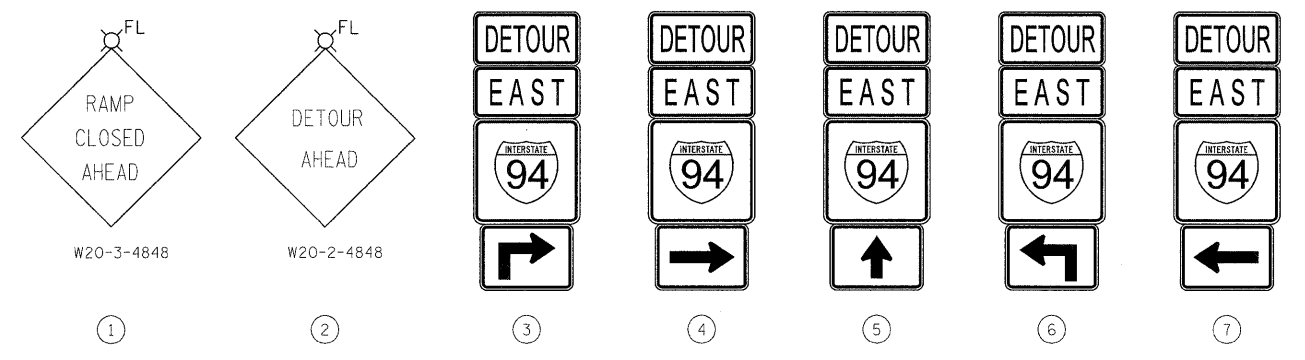
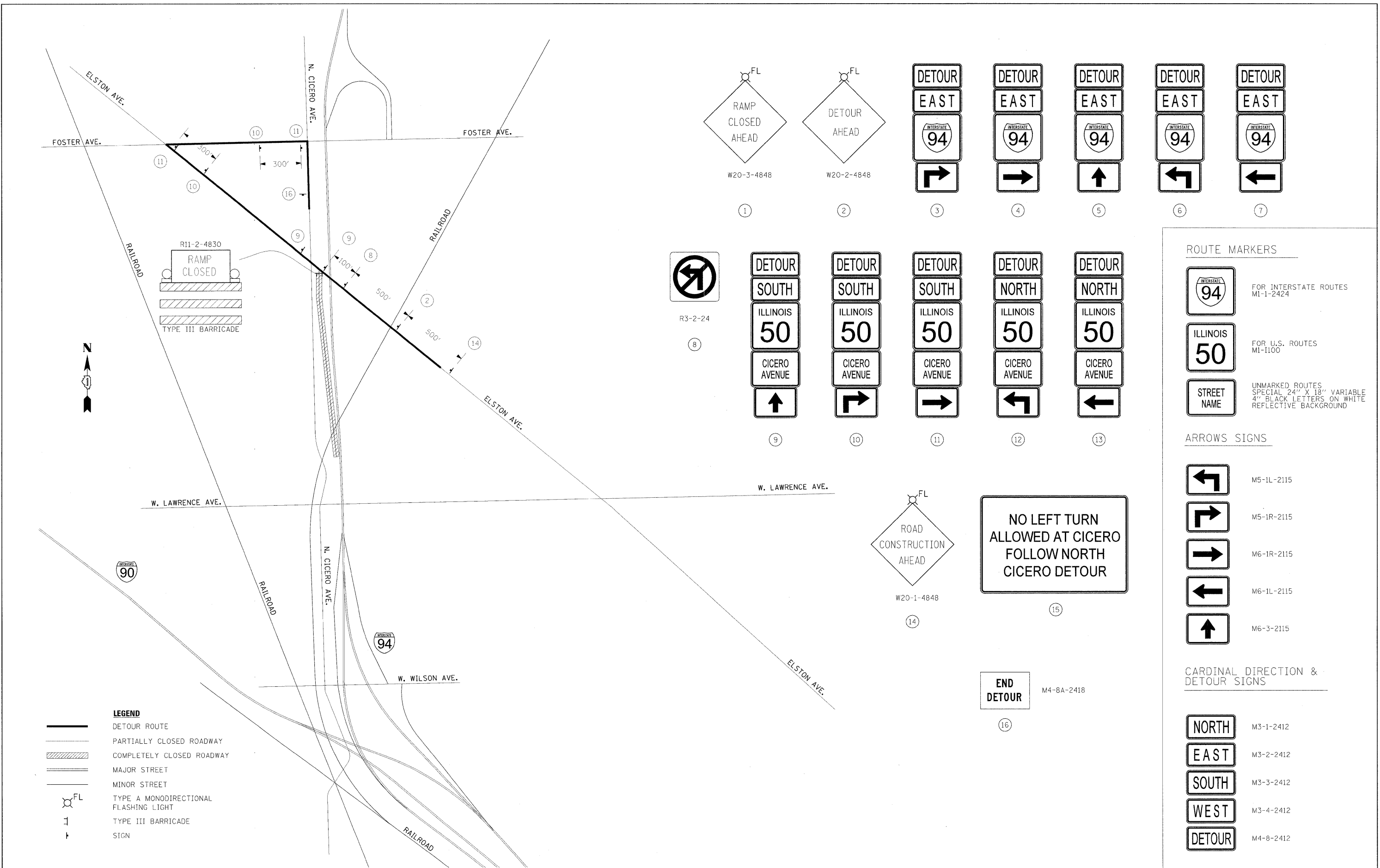
— MAJOR STREET

— MINOR STREET

⊕ FL TYPE A MONODIRECTIONAL FLASHING LIGHT

⊥ TYPE III BARRICADE

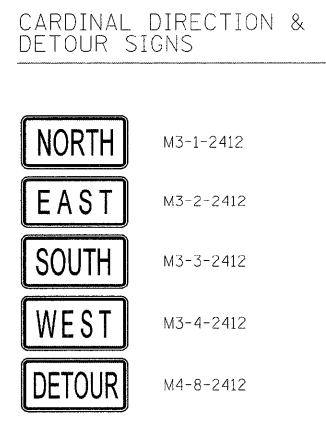
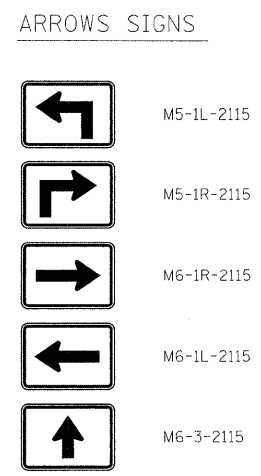
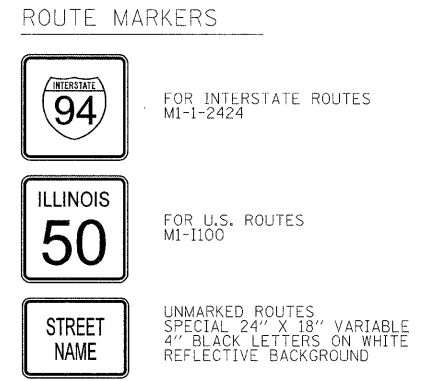
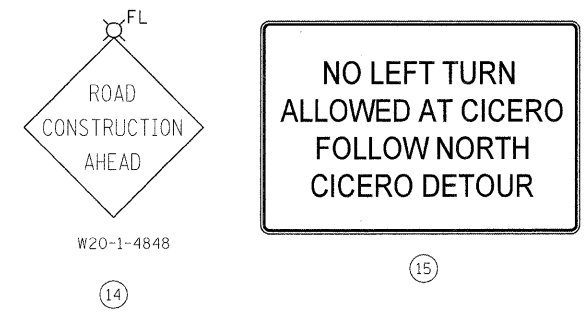
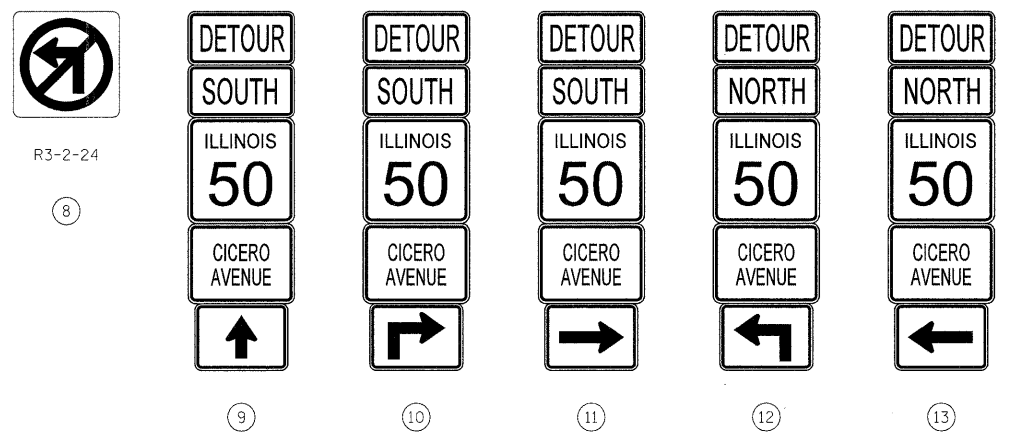
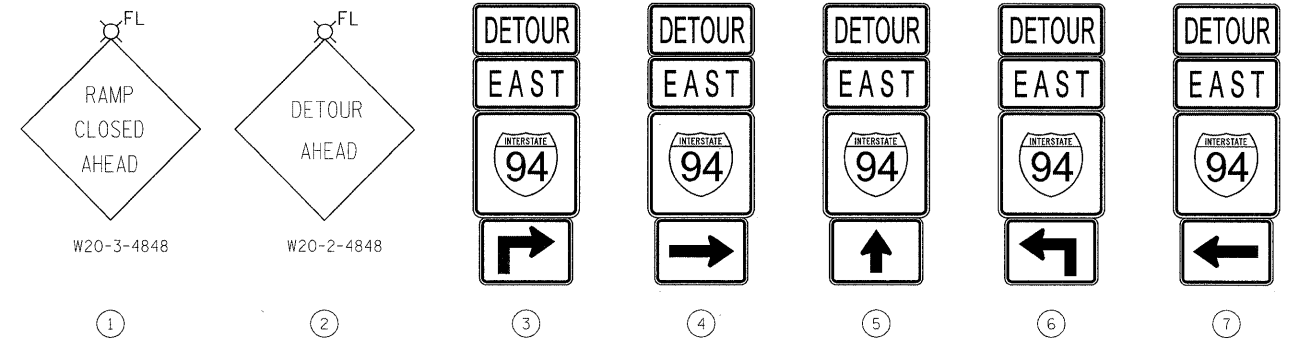
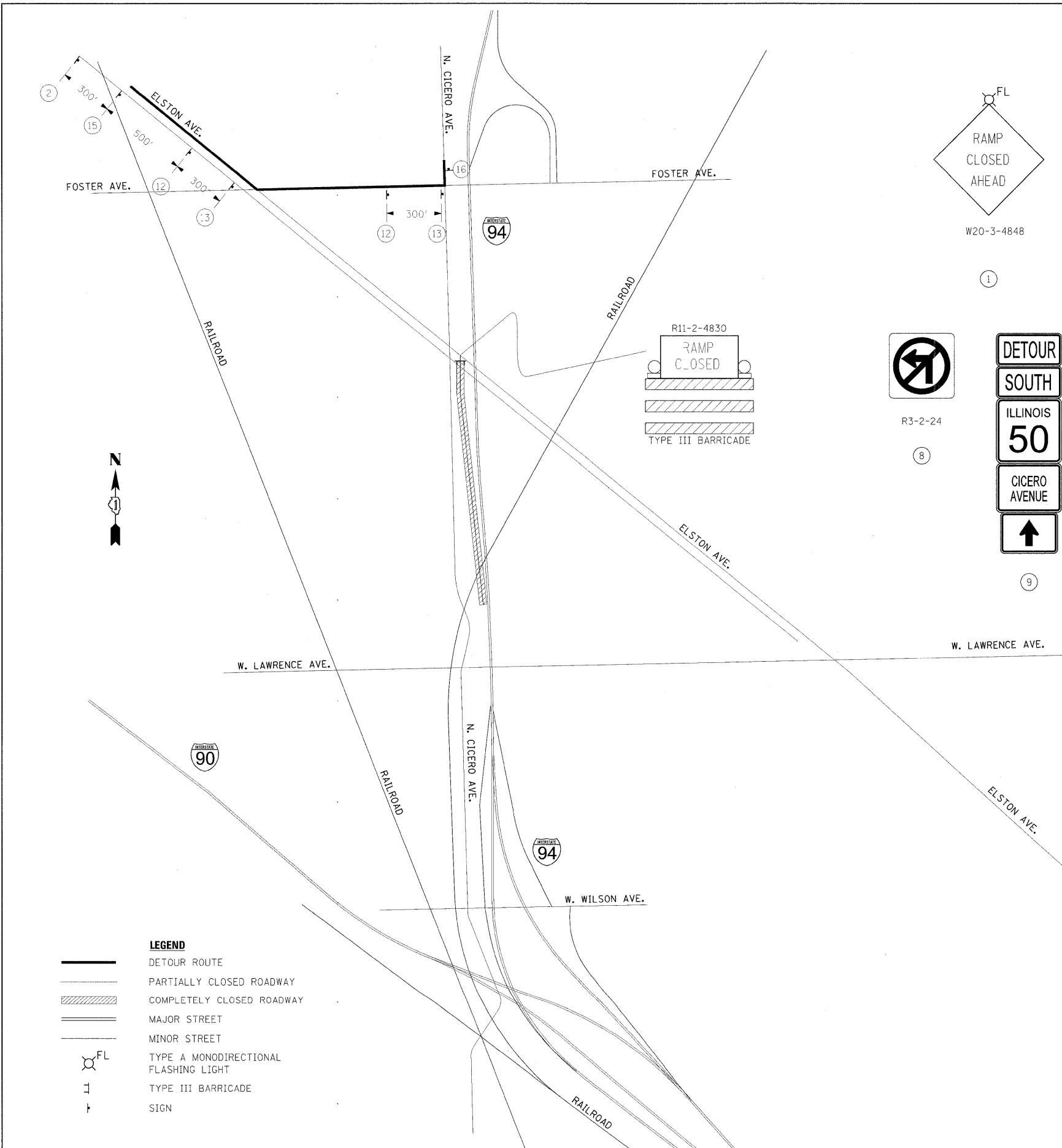
— SIGN



LEGEND

- DETOUR ROUTE
- PARTIALLY CLOSED ROADWAY
- COMPLETELY CLOSED ROADWAY
- MAJOR STREET
- MINOR STREET
- TYPE A MONODIRECTIONAL FLASHING LIGHT
- TYPE III BARRICADE
- SIGN

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN STAGE 1 WEST ELSTON AVE. TO SOUTH CICERO AVE.				F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 33
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	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										



LEGEND

— DETOUR ROUTE

— PARTIALLY CLOSED ROADWAY

▨ COMPLETELY CLOSED ROADWAY

— MAJOR STREET

— MINOR STREET

⊙ FL TYPE A MONODIRECTIONAL FLASHING LIGHT

⊥ TYPE III BARRICADE

⊥ SIGN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
FILEL		DRAWN - MSD	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETOUR PLAN STAGE 1
EAST ELSTON AVE. TO NORTH CICERO AVE.**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	34
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				

NOTES:
THE CONTRACTOR WILL VERIFY THE EXISTING DRAINAGE UTILITIES AND COORDINATE WITH THE ENGINEER PRIOR TO ORDERING PROPOSED ITEMS TO LIMIT LATER ADJUSTMENTS.

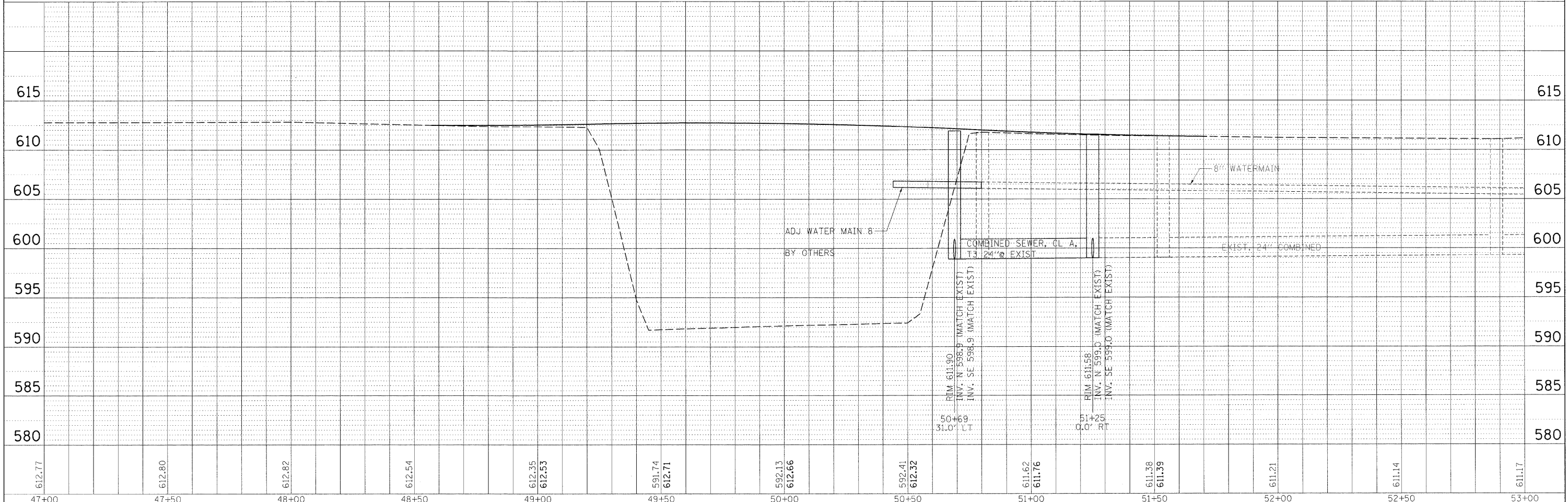
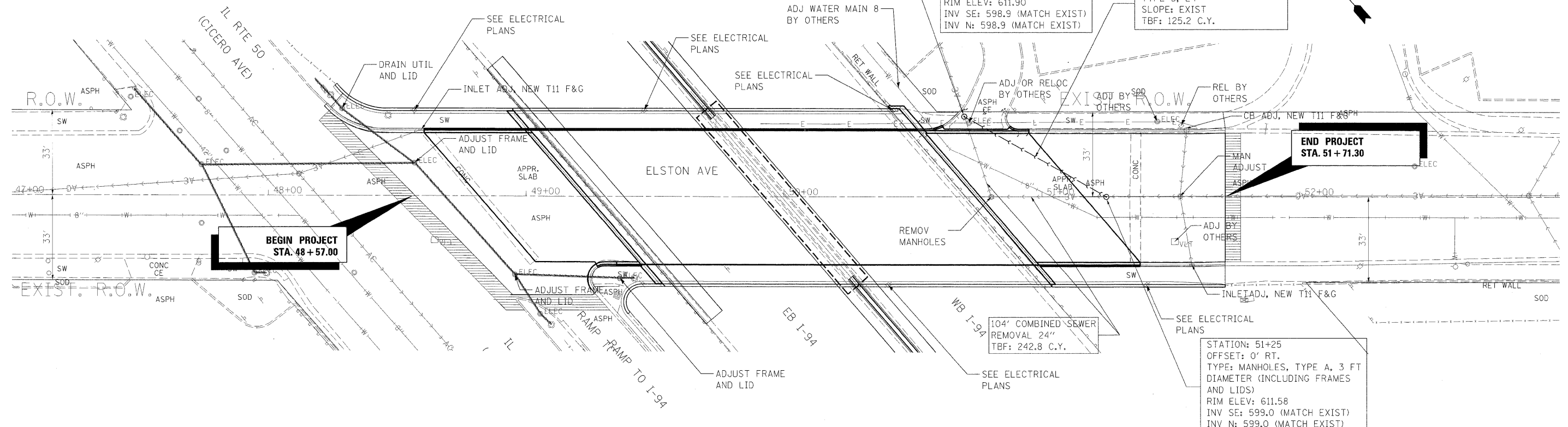
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OFFSET: 31' LT.
TYPE: MANHOLES, TYPE A,
3 FT DIAMETER (INCLUDING
FRAMES AND LIDS)
RIM ELEV: 611.90
INV SE: 598.9 (MATCH EXIST)
INV N: 598.9 (MATCH EXIST)

COMBINED SEWERS, CLASS A
TYPE 3, 24"
SLOPE: EXIST
TBF: 125.2 C.Y.

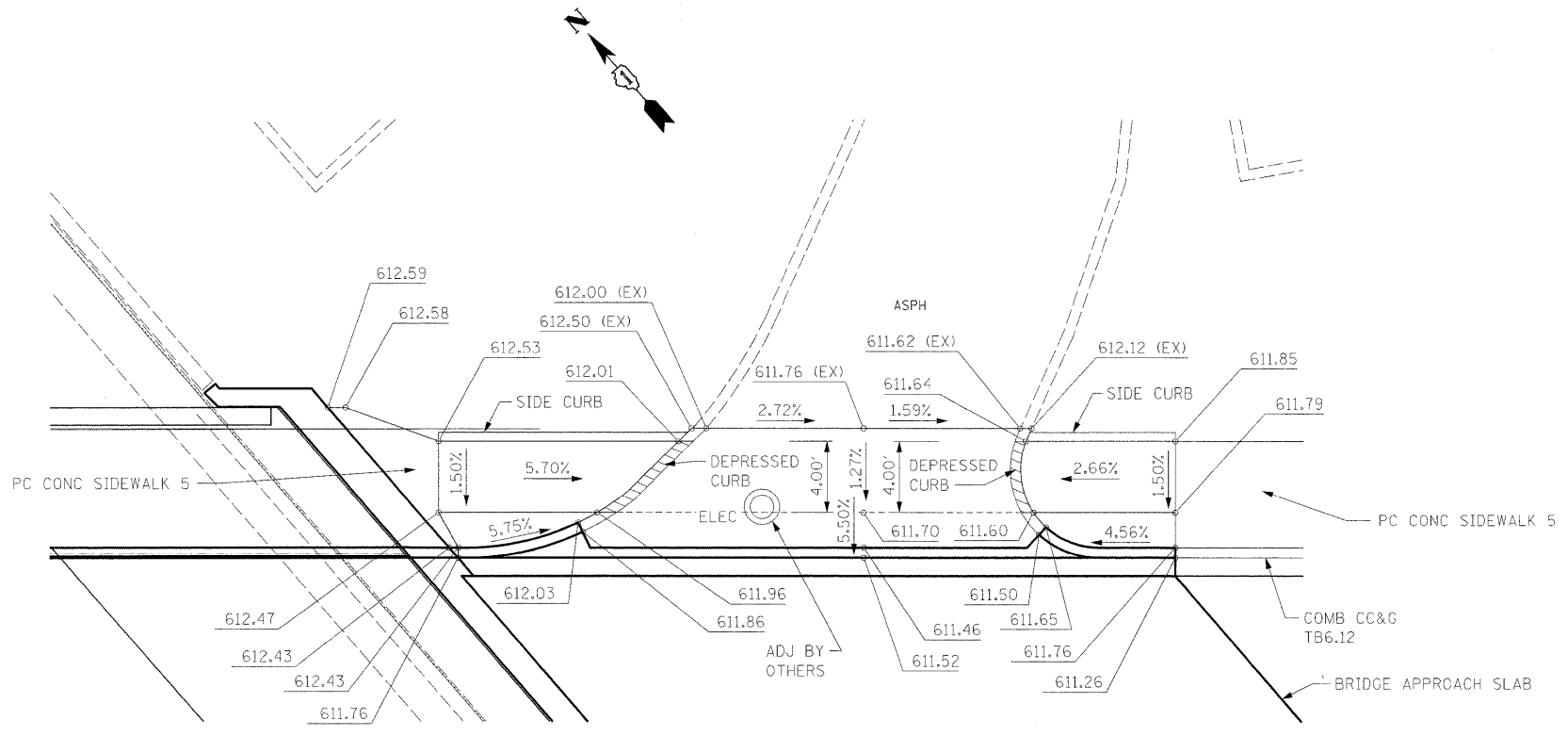
STATION: 51+25
OFFSET: 0' RT.
TYPE: MANHOLES, TYPE A, 3 FT
DIAMETER (INCLUDING
FRAMES AND LIDS)
RIM ELEV: 611.58
INV SE: 599.0 (MATCH EXIST)
INV N: 599.0 (MATCH EXIST)

PLAN	SURVEYED	DATE
	ALIGNED	BY
	CHECKED	
	NO. OF WAY CHECKED	
	ROAD FILE NAME	

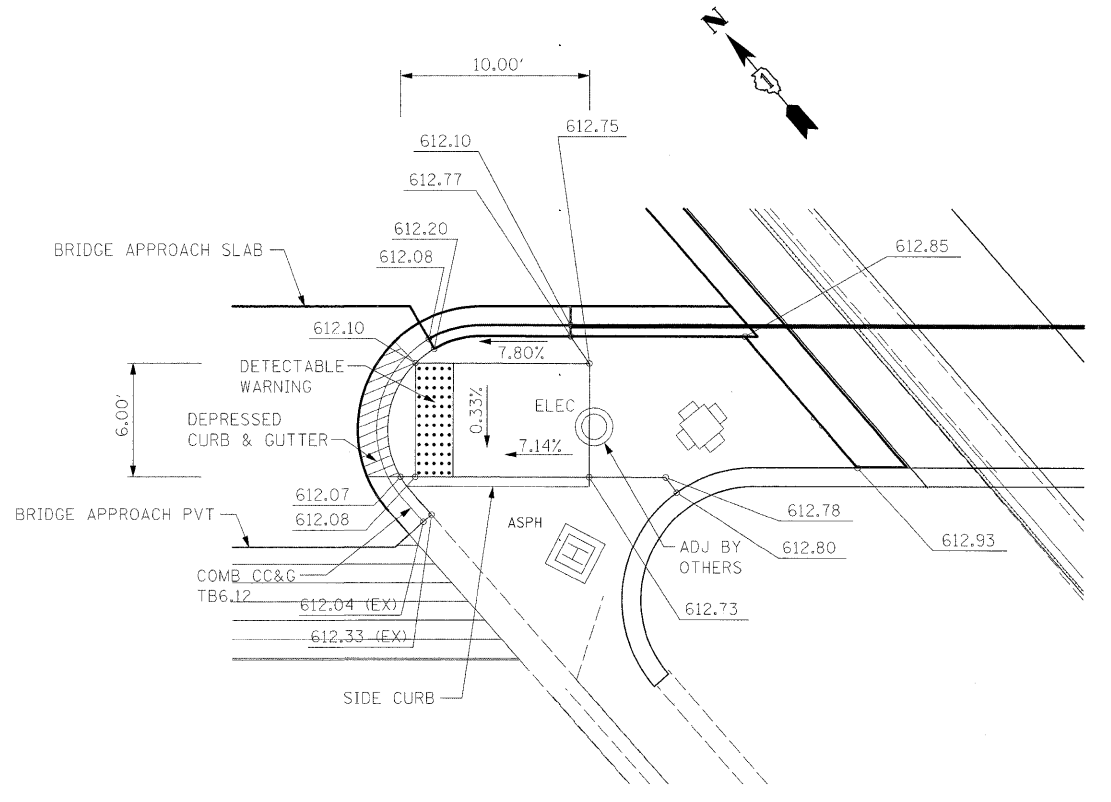
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	GRADES CHECKED	BY
	NOTED	
	STRUCTURE NOTATIONS CHECKED	



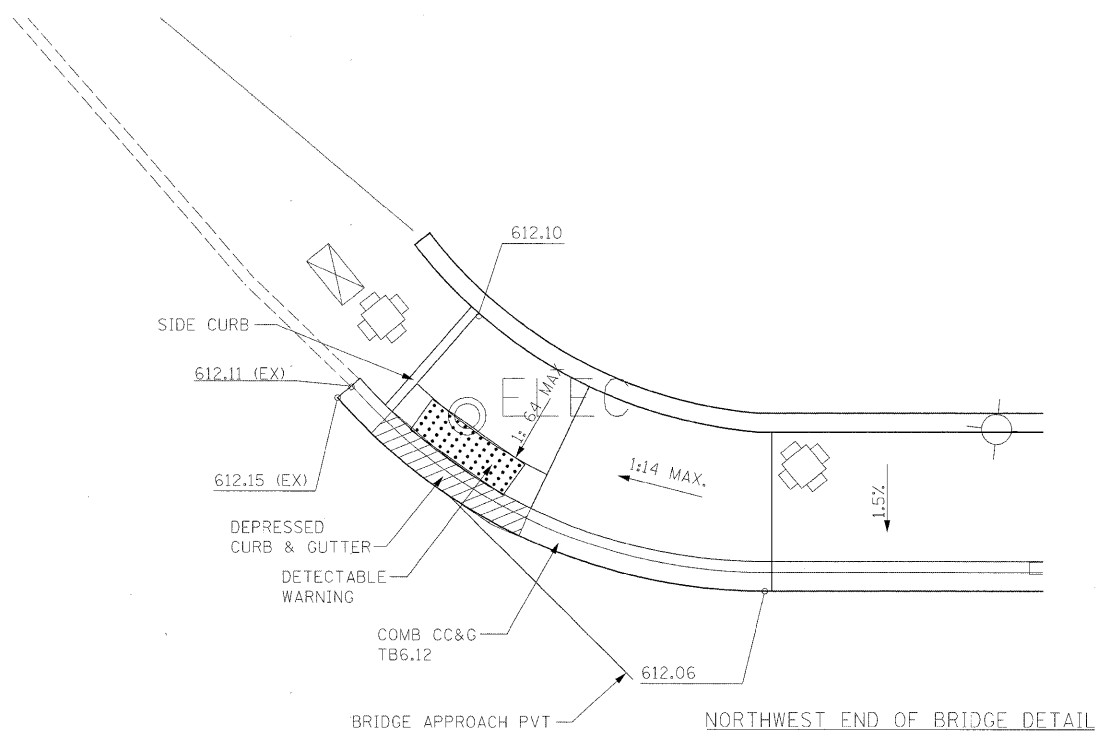
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	PLOT DATE = #DATE#	CHECKED -	REVISED -			CONTRACT NO. 60C18				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				



NORTHEAST END OF BRIDGE DETAIL

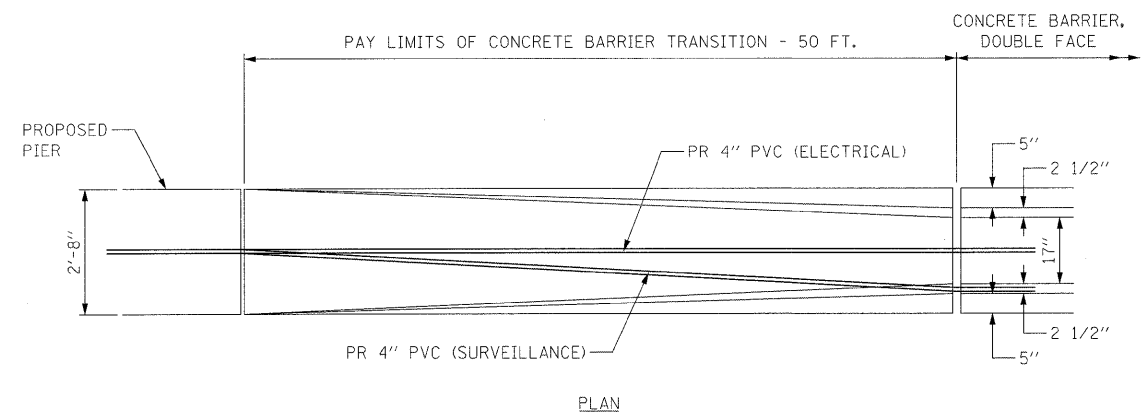


SOUTHWEST END OF BRIDGE DETAIL

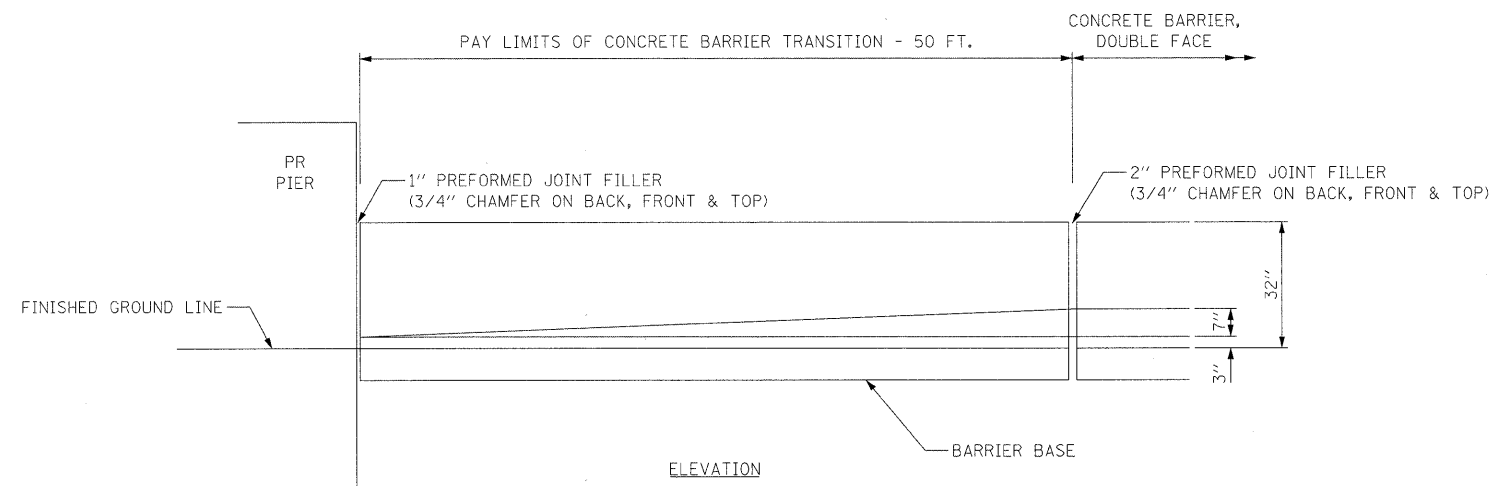


NORTHWEST END OF BRIDGE DETAIL

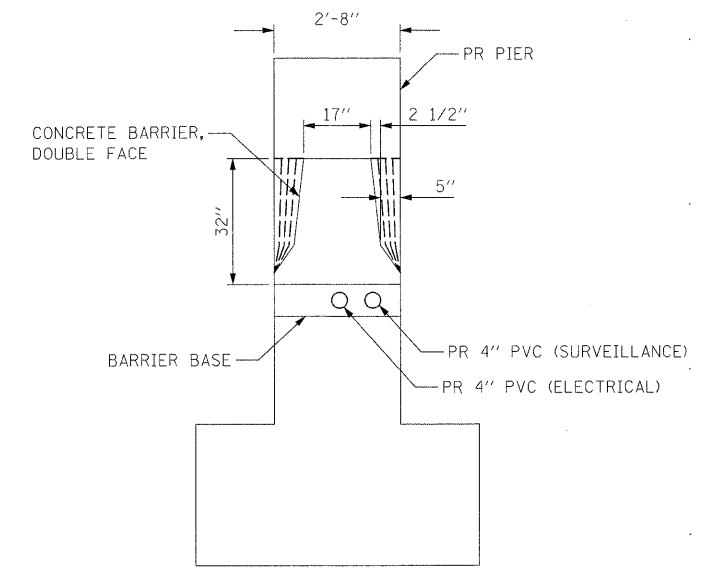
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	PLOT DATE = #DATE#	CHECKED -	REVISED -									
		DATE -	REVISED -									



PLAN



ELEVATION



TYPICAL

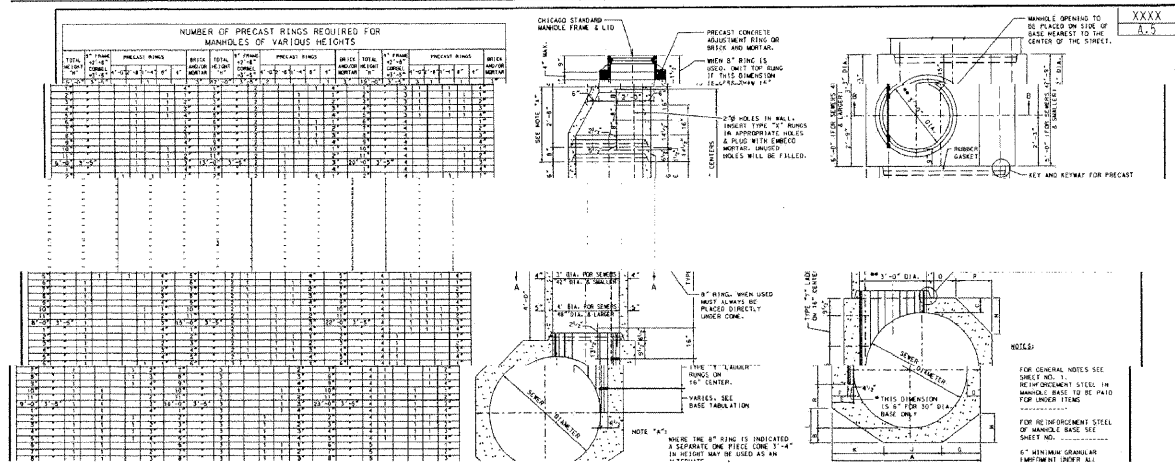
TYPICAL BARRIER TRANSITION TO ABUTMENT

NOTES:
 1. PROPOSED ELECTRICAL AND SURVEILLANCE CONDUITS ARE SHOWN. EXISTING CONDUITS THAT MAY BE LOCATED IN THE EXISTING BARRIER WALL SHALL ALSO BE MAINTAINED AND TRANSITIONED WITHIN THE BARRIER WALL TRANSITION. CONDUITS SHALL TRANSITION FROM THEIR NORMAL LOCATION IN THE BARRIER WALL TO THE CENTER OF THE PROPOSED PIER AND SHALL RUN THRU THE CENTER OF THE PIER IN ACCORDANCE WITH THE BRIDGE PLANS.

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 37
FILEL		DRAWN -	REVISED -		SCALE: 1:5	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60C18		
		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT								
		DATE -	REVISED -										

SCHEDULE OF REINFORCEMENT - PART OF ITEM. XXXX
A.4

REINFORCEMENT BAR		BENDING DIMENSIONS		REINFORCEMENT BAR		BENDING DIMENSIONS	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	10" DIA. BAR	1	10" DIA. BAR	1	10" DIA. BAR	1	10" DIA. BAR
2	12" DIA. BAR	2	12" DIA. BAR	2	12" DIA. BAR	2	12" DIA. BAR
3	14" DIA. BAR	3	14" DIA. BAR	3	14" DIA. BAR	3	14" DIA. BAR
4	16" DIA. BAR	4	16" DIA. BAR	4	16" DIA. BAR	4	16" DIA. BAR
5	18" DIA. BAR	5	18" DIA. BAR	5	18" DIA. BAR	5	18" DIA. BAR
6	20" DIA. BAR	6	20" DIA. BAR	6	20" DIA. BAR	6	20" DIA. BAR
7	22" DIA. BAR	7	22" DIA. BAR	7	22" DIA. BAR	7	22" DIA. BAR
8	24" DIA. BAR	8	24" DIA. BAR	8	24" DIA. BAR	8	24" DIA. BAR
9	26" DIA. BAR	9	26" DIA. BAR	9	26" DIA. BAR	9	26" DIA. BAR
10	28" DIA. BAR	10	28" DIA. BAR	10	28" DIA. BAR	10	28" DIA. BAR
11	30" DIA. BAR	11	30" DIA. BAR	11	30" DIA. BAR	11	30" DIA. BAR
12	32" DIA. BAR	12	32" DIA. BAR	12	32" DIA. BAR	12	32" DIA. BAR
13	34" DIA. BAR	13	34" DIA. BAR	13	34" DIA. BAR	13	34" DIA. BAR
14	36" DIA. BAR	14	36" DIA. BAR	14	36" DIA. BAR	14	36" DIA. BAR
15	38" DIA. BAR	15	38" DIA. BAR	15	38" DIA. BAR	15	38" DIA. BAR
16	40" DIA. BAR	16	40" DIA. BAR	16	40" DIA. BAR	16	40" DIA. BAR
17	42" DIA. BAR	17	42" DIA. BAR	17	42" DIA. BAR	17	42" DIA. BAR
18	44" DIA. BAR	18	44" DIA. BAR	18	44" DIA. BAR	18	44" DIA. BAR
19	46" DIA. BAR	19	46" DIA. BAR	19	46" DIA. BAR	19	46" DIA. BAR
20	48" DIA. BAR	20	48" DIA. BAR	20	48" DIA. BAR	20	48" DIA. BAR
21	50" DIA. BAR	21	50" DIA. BAR	21	50" DIA. BAR	21	50" DIA. BAR
22	52" DIA. BAR	22	52" DIA. BAR	22	52" DIA. BAR	22	52" DIA. BAR
23	54" DIA. BAR	23	54" DIA. BAR	23	54" DIA. BAR	23	54" DIA. BAR
24	56" DIA. BAR	24	56" DIA. BAR	24	56" DIA. BAR	24	56" DIA. BAR
25	58" DIA. BAR	25	58" DIA. BAR	25	58" DIA. BAR	25	58" DIA. BAR
26	60" DIA. BAR	26	60" DIA. BAR	26	60" DIA. BAR	26	60" DIA. BAR
27	62" DIA. BAR	27	62" DIA. BAR	27	62" DIA. BAR	27	62" DIA. BAR
28	64" DIA. BAR	28	64" DIA. BAR	28	64" DIA. BAR	28	64" DIA. BAR
29	66" DIA. BAR	29	66" DIA. BAR	29	66" DIA. BAR	29	66" DIA. BAR
30	68" DIA. BAR	30	68" DIA. BAR	30	68" DIA. BAR	30	68" DIA. BAR
31	70" DIA. BAR	31	70" DIA. BAR	31	70" DIA. BAR	31	70" DIA. BAR
32	72" DIA. BAR	32	72" DIA. BAR	32	72" DIA. BAR	32	72" DIA. BAR
33	74" DIA. BAR	33	74" DIA. BAR	33	74" DIA. BAR	33	74" DIA. BAR
34	76" DIA. BAR	34	76" DIA. BAR	34	76" DIA. BAR	34	76" DIA. BAR
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36	80" DIA. BAR	36	80" DIA. BAR	36	80" DIA. BAR	36	80" DIA. BAR
37	82" DIA. BAR	37	82" DIA. BAR	37	82" DIA. BAR	37	82" DIA. BAR
38	84" DIA. BAR	38	84" DIA. BAR	38	84" DIA. BAR	38	84" DIA. BAR
39	86" DIA. BAR	39	86" DIA. BAR	39	86" DIA. BAR	39	86" DIA. BAR
40	88" DIA. BAR	40	88" DIA. BAR	40	88" DIA. BAR	40	88" DIA. BAR
41	90" DIA. BAR	41	90" DIA. BAR	41	90" DIA. BAR	41	90" DIA. BAR
42	92" DIA. BAR	42	92" DIA. BAR	42	92" DIA. BAR	42	92" DIA. BAR
43	94" DIA. BAR	43	94" DIA. BAR	43	94" DIA. BAR	43	94" DIA. BAR
44	96" DIA. BAR	44	96" DIA. BAR	44	96" DIA. BAR	44	96" DIA. BAR
45	98" DIA. BAR	45	98" DIA. BAR	45	98" DIA. BAR	45	98" DIA. BAR
46	100" DIA. BAR	46	100" DIA. BAR	46	100" DIA. BAR	46	100" DIA. BAR

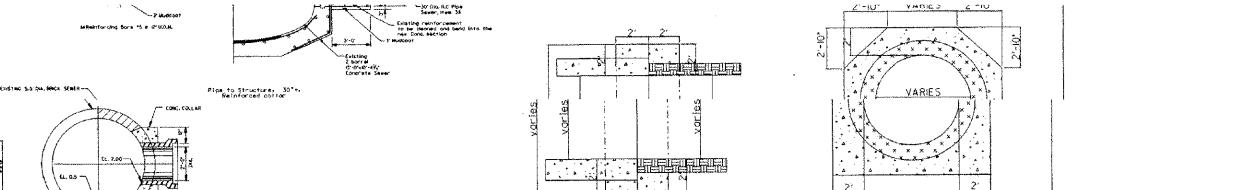
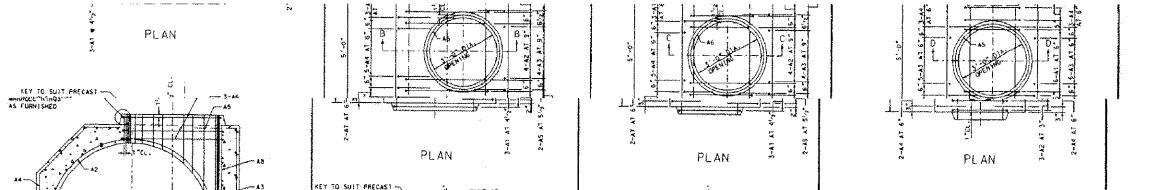
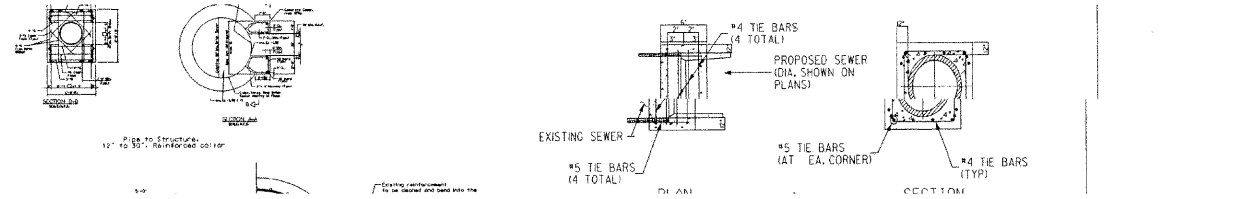
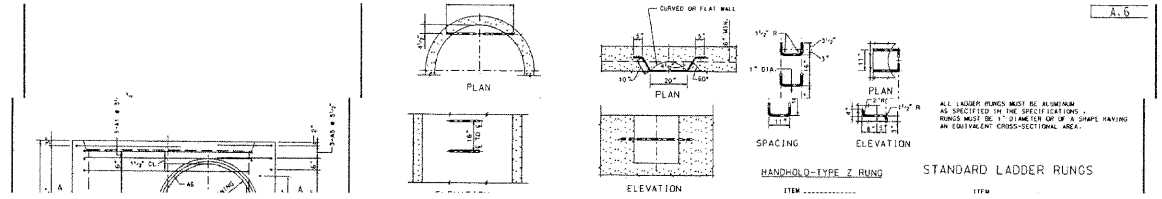
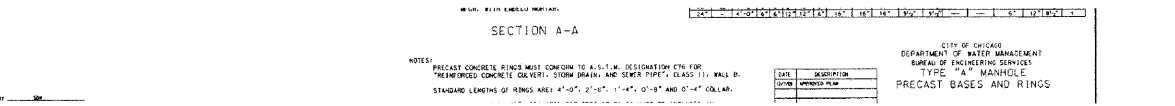


REINFORCEMENT BAR LISTS

ALL DIMENSIONS ARE OUT TO OUT OF BAR, BENDING PARTS TO OUTSIDE OF BAR, NUMBER IN CIRCLES DENOTE BAR TYPE.

REINFORCEMENT BAR LISTS

REINFORCEMENT BAR LISTS



REINFORCEMENT FOR TYPE "A" PRECAST MANHOLE BASES

REINFORCEMENT FOR TYPE "A" PRECAST MANHOLE BASES

REVISIONS

REVISIONS

GENERAL NOTES

1) LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.

2) 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).

3) 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 DEPARTMENT MANAGER. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION.

4) 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 ENGINEER.

5) FITTINGS AND THEIR LOCATIONS INDICATED ON THE DRAWINGS ARE TENTATIVE. THE CONTRACTOR MUST COMPLETE THE INSTALLATION WITH THE NECESSARY FITTINGS DICTATED BY FIELD CONDITIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEVIATIONS FROM THE INDICATED FITTINGS.

6) 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.

7) 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.

8) THE CONTRACTOR MUST PROVIDE THRUST RESTRAINTS IN ACCORDANCE WITH THE SPECIFICATIONS. THE CONTRACTOR MUST FURNISH AND INSTALL MECHANICAL JOINT THRUST RESTRAINT GLANDS AT ALL FITTINGS AND MECHANICAL JOINTS.

9) THE CONTRACTOR MUST VERIFY THE OPERATION OF EVERY VALVE NECESSARY FOR THE REQUIRED WATER MAIN SHUT DOWN FOR EACH PIPE SECTION. FOR VALVES OR WATER MAINS UNDER 16-INCHES IN DIAMETER THE WORK MUST BE DONE UNDER THE DIRECT SUPERVISION OF A DEPARTMENT REPRESENTATIVE AT LEAST 2 WEEKS PRIOR TO THE START OF THE JOB. A 24 HOUR ADVANCE NOTICE MUST BE GIVEN TO ALL CONSUMERS EFFECTED AND THE BUREAU OF OPERATIONS AND DISTRIBUTION. THE OPERATION OF ALL VALVES 16-INCHES IN DIAMETER AND LARGER MUST BE PERFORMED BY THE CITY FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT. ANY VALVE FOUND NOT OPERABLE WILL BE REPAIRED OR REPLACED BY THE DEPARTMENT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

10) IN INSTANCES WHERE CHLORINATION IS TO BE DONE AGAINST ANY EXISTING VALVE, AT THE TIME THAT THE EXISTING WATER MAIN IS BREACHED FOR FINAL CONNECTION, THE CONTRACTOR IS TO VERIFY THAT THE EXISTING VALVES ARE IN GOOD OPERATING CONDITION AND DO NOT LEAK. ANY LEAKING VALVE SHOULD BE BROUGHT TO THE COMMISSIONERS' ATTENTION AND BE REPAIRED OR REPLACED PRIOR TO MAKING PIPE CONNECTIONS TO THE EXISTING WATER MAIN. THE VALVE SHOULD REMAIN IN THE CLOSED POSITION UNTIL THE NEW WATER MAIN IS APPROVED FOR SERVICE.

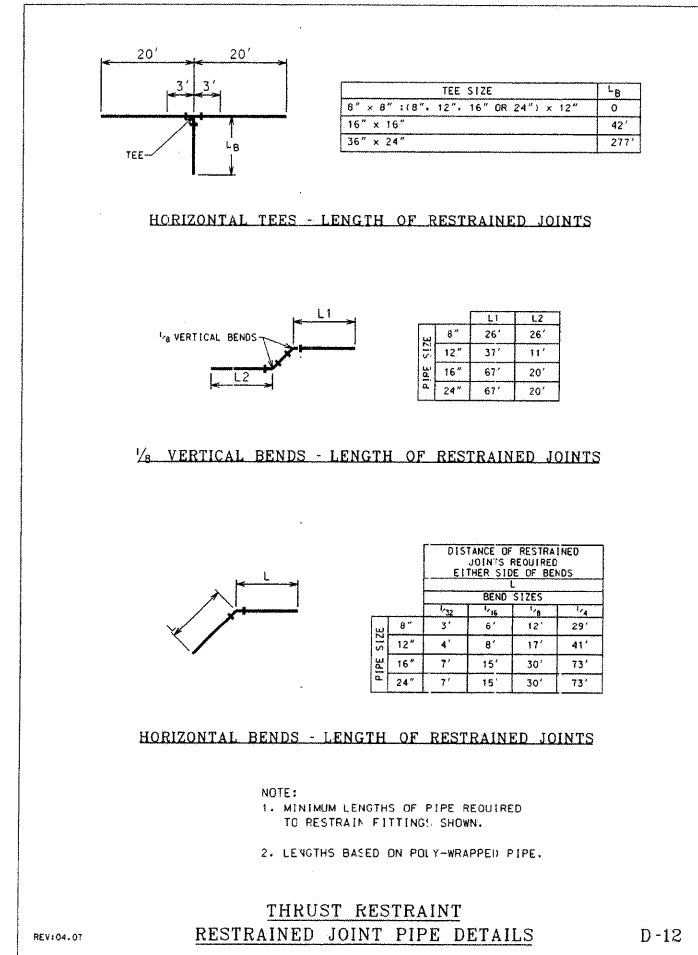
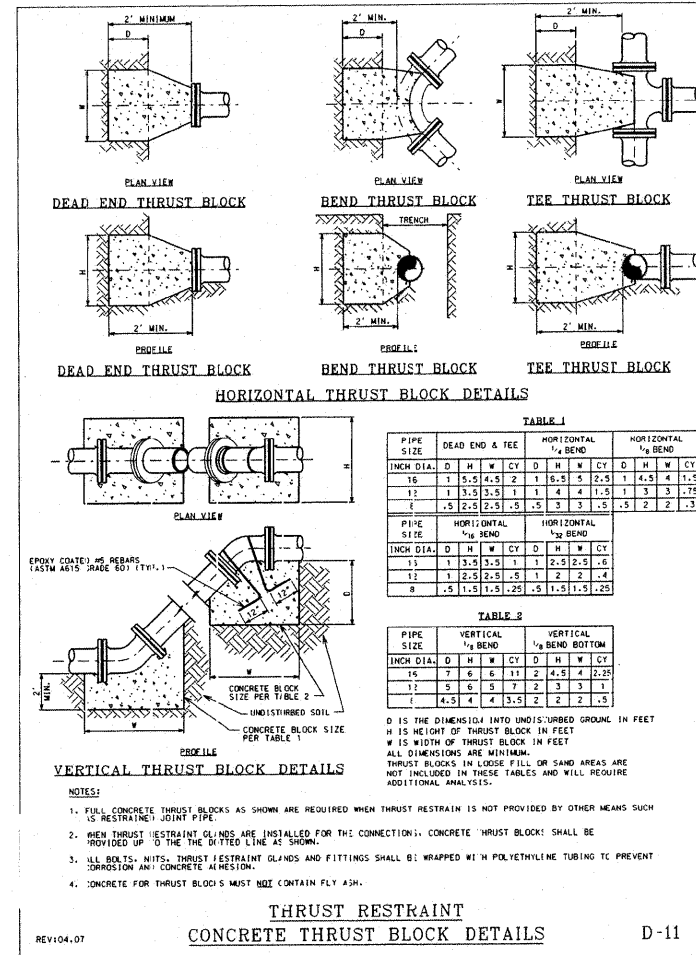
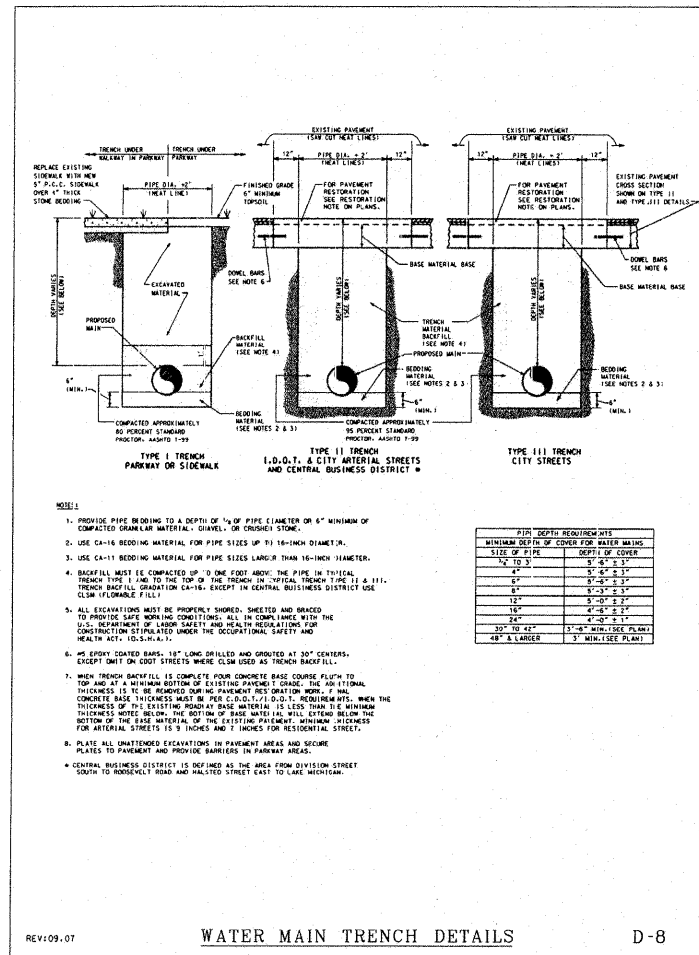
11) ALL OPENINGS IN EXISTING WATER MAINS MUST BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED.

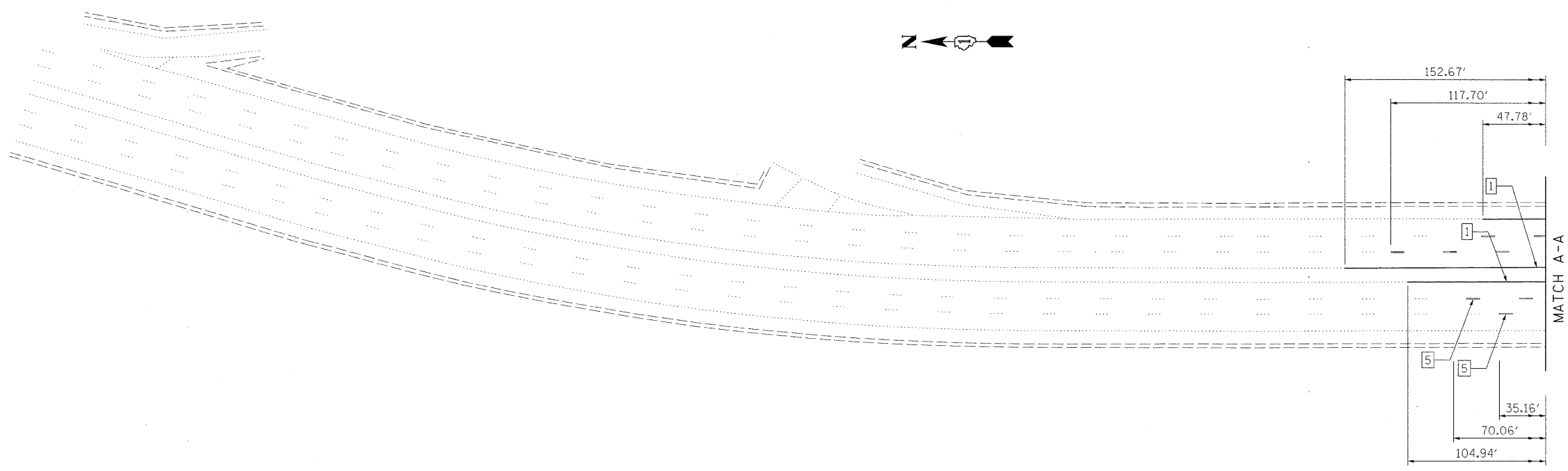
12) IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE, A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.

13) THE DEPARTMENT WILL PROVIDE THE NECESSARY I.E.P.A. WATER MAIN CONSTRUCTION PERMITS FOR THIS CONTRACT.

14) ABANDON EXISTING WATER MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.

15) SWAB PIPE AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION DURING INSTALLATION AND USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. INCORPORATE UNTESTED PIPE INTO THE FLUSHING ROUTINE WHEN POSSIBLE. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS. WHEN FEASIBLE, PERFORM INSPECTION PRIOR TO BACKFILLING. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE CITY OF CHICAGO BUREAU OF WATER QUALITY (312) 744-8190.

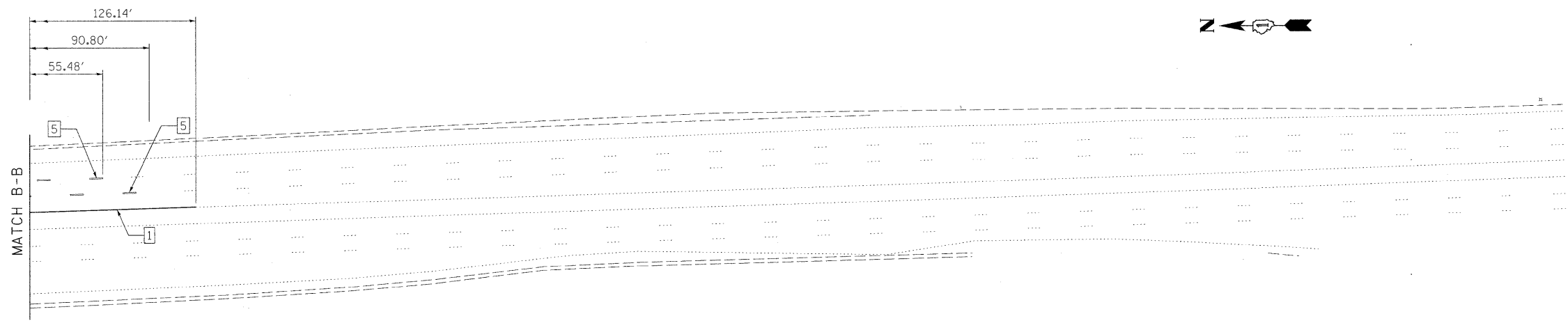
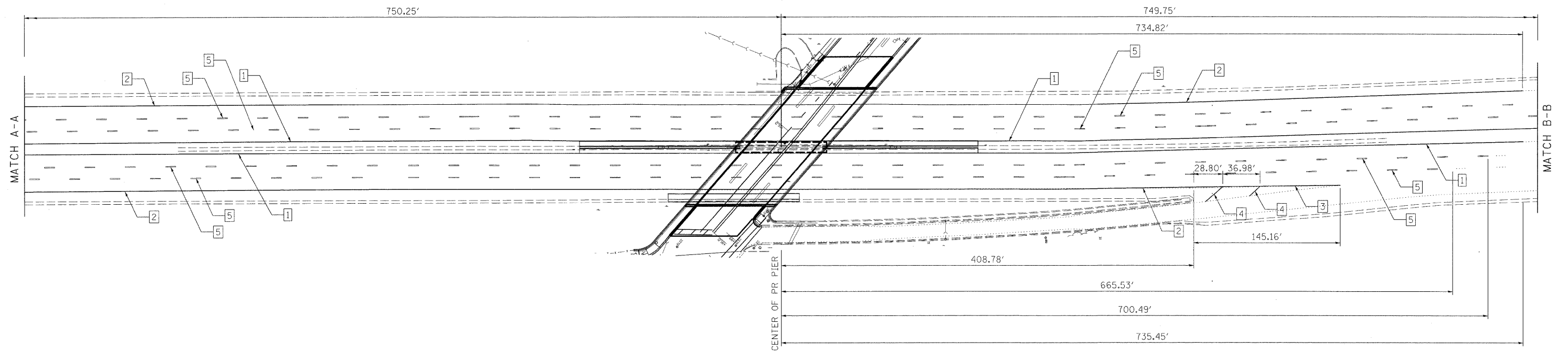




PAVEMENT MARKING KEY

YELLOW	1	4" SOLID, THERMO PLASTIC	WHITE	2	4" SOLID, THERMO PLASTIC
	3	8" SOLID, THERMO PLASTIC		3	8" SOLID, THERMO PLASTIC
	4	12" SOLID, THERMO PLASTIC		4	12" SOLID, THERMO PLASTIC
	5	5"- 30' SKIP/10' DASH, THERMO PLASTIC		5	5"- 30' SKIP/10' DASH, THERMO PLASTIC

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLANS - I-94	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PAVEMENT MARKING KEY

YELLOW	1	4" SOLID, THERMO PLASTIC	WHITE	2	4" SOLID, THERMO PLASTIC
	3	8" SOLID, THERMO PLASTIC		3	8" SOLID, THERMO PLASTIC
	4	12" SOLID, THERMO PLASTIC		4	12" SOLID, THERMO PLASTIC
	5	5"- 30' SKIP/10' DASH, THERMO PLASTIC		5	5"- 30' SKIP/10' DASH, THERMO PLASTIC

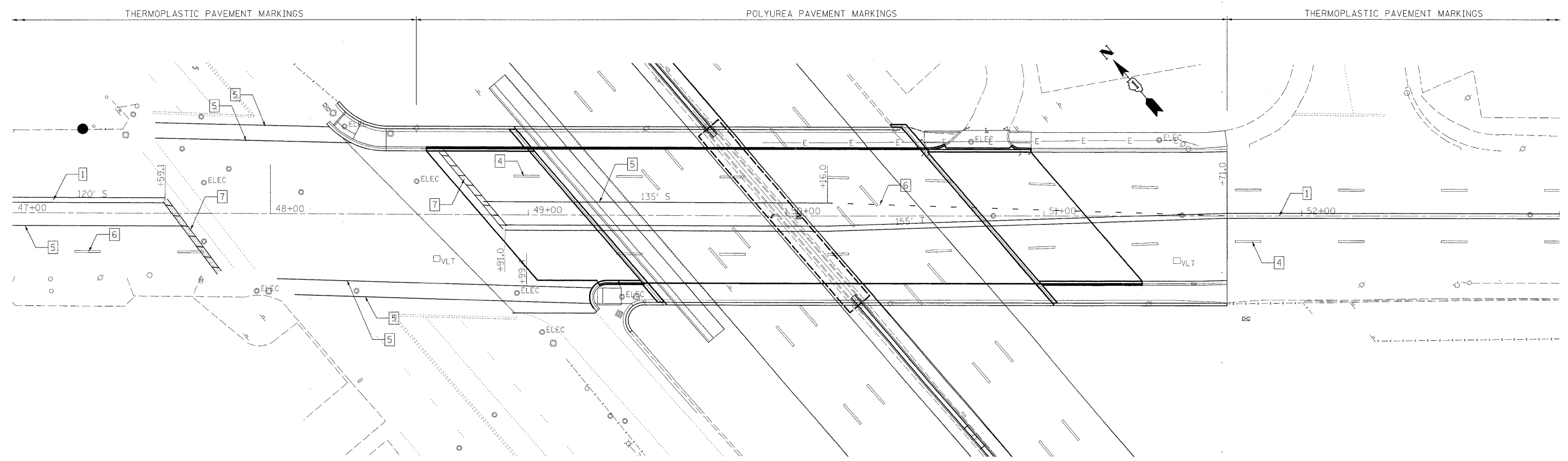
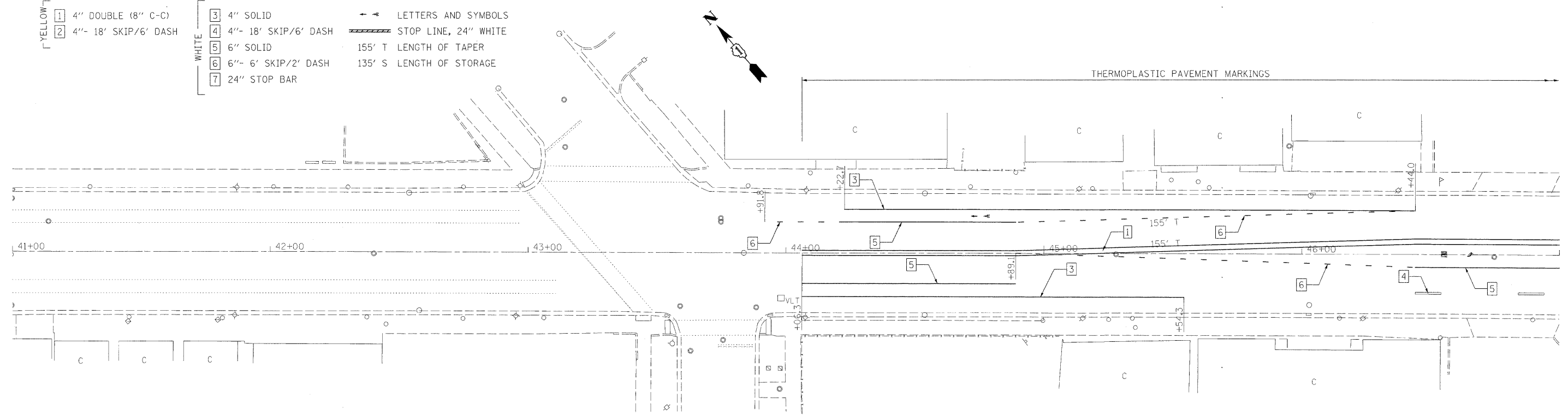
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	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

PAVEMENT MARKING KEY

- | | | |
|--------|---|----------------------|
| YELLOW | 1 | 4" DOUBLE (8" C-C) |
| | 2 | 4"- 18' SKIP/6' DASH |
| WHITE | 3 | 4" SOLID |
| | 4 | 4"- 18' SKIP/6' DASH |
| | 5 | 6" SOLID |
| | 6 | 6"- 6' SKIP/2' DASH |
| | 7 | 24" STOP BAR |

PAVEMENT MARKING LEGEND

- LETTERS AND SYMBOLS
- STOP LINE, 24" WHITE
- 155' T LENGTH OF TAPER
- 135' S LENGTH OF STORAGE



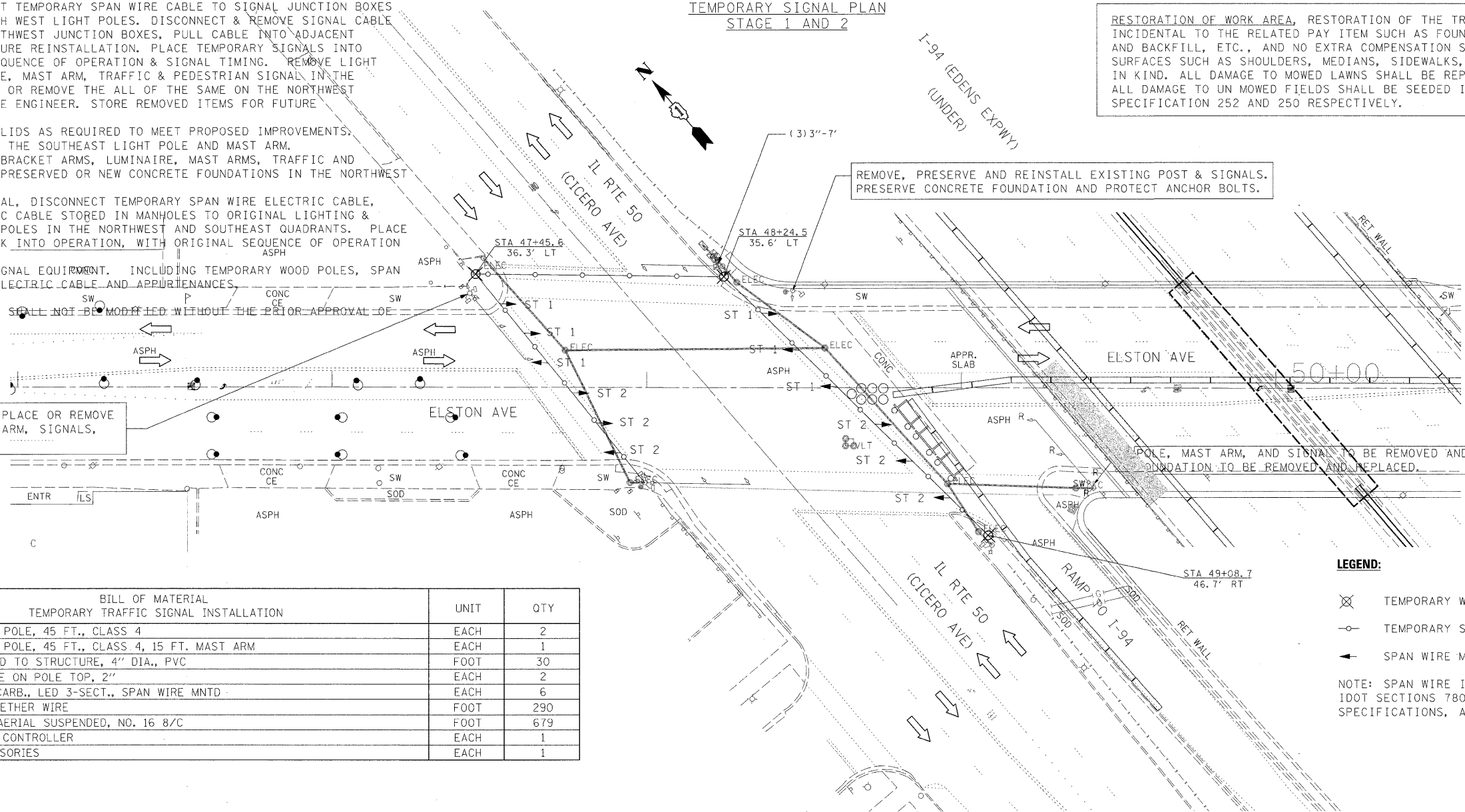
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	PLOT DATE = #DATE#	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

SIGNAL CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY WOOD POLES, SPAN & TETHER WIRE SIGNAL HEADS, AND ELECTRIC CABLE.
2. TURN OFF SIGNAL, CONNECT TEMPORARY SPAN WIRE CABLE TO SIGNAL JUNCTION BOXES ON THE NORTH EAST AND SOUTH WEST LIGHT POLES. DISCONNECT & REMOVE SIGNAL CABLE FROM THE SOUTHEAST AND NORTHWEST JUNCTION BOXES, PULL CABLE INTO ADJACENT MANHOLES AND STORE FOR FUTURE REINSTALLATION. PLACE TEMPORARY SIGNALS INTO OPERATION WITH MODIFIED SEQUENCE OF OPERATION & SIGNAL TIMING. REMOVE LIGHT POLE, BRACKET ARM LUMINAIRE, MAST ARM, TRAFFIC & PEDESTRIAN SIGNAL IN THE SOUTHEAST QUADRANT AND BAG OR REMOVE THE ALL OF THE SAME ON THE NORTHWEST QUADRANT AS DIRECTED BY THE ENGINEER. STORE REMOVED ITEMS FOR FUTURE REINSTALLATION.
3. ADJUST MANHOLE FRAMES & LIDS AS REQUIRED TO MEET PROPOSED IMPROVEMENTS. INSTALL NEW FOUNDATION FOR THE SOUTHEAST LIGHT POLE AND MAST ARM.
4. REINSTALL LIGHT POLES, BRACKET ARMS, LUMINAIRE, MAST ARMS, TRAFFIC AND PEDESTRIAN SIGNALS ON THE PRESERVED OR NEW CONCRETE FOUNDATIONS IN THE NORTHWEST AND SOUTHEAST QUADRANTS.
5. TURN OFF TEMPORARY SIGNAL, DISCONNECT TEMPORARY SPAN WIRE ELECTRIC CABLE. RECONNECT ORIGINAL ELECTRIC CABLE STORED IN MANHOLES TO ORIGINAL LIGHTING & SIGNAL EQUIPMENT ON LIGHT POLES IN THE NORTHWEST AND SOUTHEAST QUADRANTS. PLACE ORIGINAL SIGNAL SYSTEM BACK INTO OPERATION, WITH ORIGINAL SEQUENCE OF OPERATION AND SIGNAL TIMING.
6. REMOVE ALL TEMPORARY SIGNAL EQUIPMENT. INCLUDING TEMPORARY WOOD POLES, SPAN & TETHER WIRE, TEMPORARY ELECTRIC CABLE AND APPURTENANCES.

THIS CONSTRUCTION SEQUENCE SHALL NOT BE MODIFIED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

TO BE BAGGED AND LEFT IN PLACE OR REMOVE AND REINSTALL POLE, MAST ARM, SIGNALS, AND PEDESTRIAN EQUIPMENT.



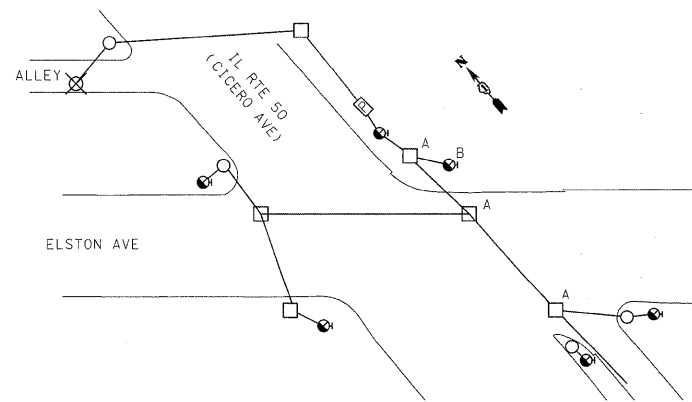
RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UN MOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATION 252 AND 250 RESPECTIVELY.

BILL OF MATERIAL TEMPORARY TRAFFIC SIGNAL INSTALLATION		UNIT	QTY
TEMPORARY WOOD POLE, 45 FT., CLASS 4	EACH	2	
TEMPORARY WOOD POLE, 45 FT., CLASS 4, 15 FT. MAST ARM	EACH	1	
CONDUIT ATTACHED TO STRUCTURE, 4" DIA., PVC	FOOT	30	
SERVICE ENTRANCE ON POLE TOP, 2"	EACH	2	
SIGNAL HD, POLYCARB., LED 3-SECT., SPAN WIRE MNTD	EACH	6	
SPAN WIRE AND TETHER WIRE	FOOT	290	
HARNES CABLE, AERIAL SUSPENDED, NO. 16 8/C	FOOT	679	
MODIFY EXISTING CONTROLLER	EACH	1	
SPAN WIRE ACCESSORIES	EACH	1	

LEGEND:

- ⊗ TEMPORARY WOOD POLE, CLASS 4, 45' MIN.
- TEMPORARY SPAN & TETHER WIRE
- ← SPAN WIRE MOUNTED SIGNAL HEAD

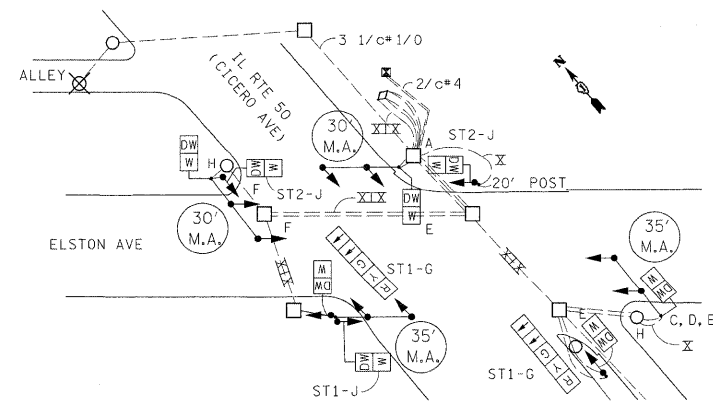
NOTE: SPAN WIRE INSTALLATION SHALL CONFORM TO IDOT SECTIONS 780, 872, AND 1077.04 OF THE STANDARD SPECIFICATIONS, AND AND HIGHWAY STANDARD 880001.



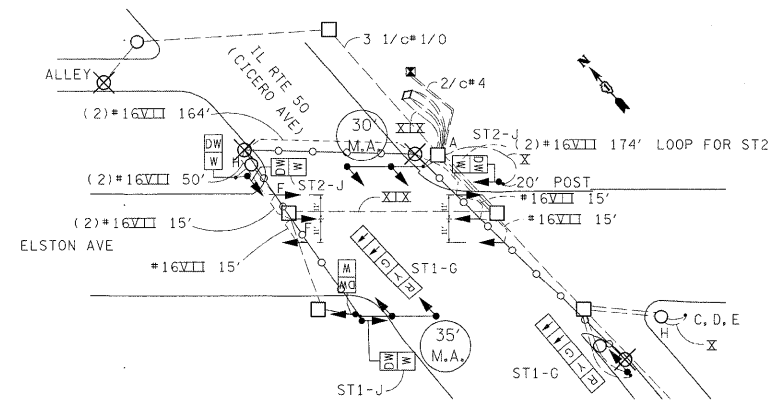
FOUNDATION REMOVAL PLAN
NOT TO SCALE

REMOVAL NOTES:

- A - ADJUST EXISTING MANHOLE FRAME & LID
- B - PRESERVE EXISTING CONCRETE FOUNDATION AND PROTECT ANCHOR BOLTS
- C - REMOVE EXISTING MAST ARM ASSEMBLY
- D - REMOVE EXISTING SIGNAL HEADS
- E - REMOVE EXISTING PEDESTRIAN HEADS
- F - COVER AND DE-ENERGIZE WB SIGNAL HEAD DURING CONSTRUCTION (AS DETERMINED BY ENGINEER)
- G - COVER AND DE-ENERGIZE SB TURN ARROWS DURING CONSTRUCTION
- H - PULL ELECTRICAL CABLE BACK TO MANHOLE, DE-ENERGIZE, STORE
- J - COVER AND DE-ENERGIZE PEDESTRIAN SIGNAL HEAD
- ITEMS C, D, E: REMOVE AND STORE FOR REINSTALLATION

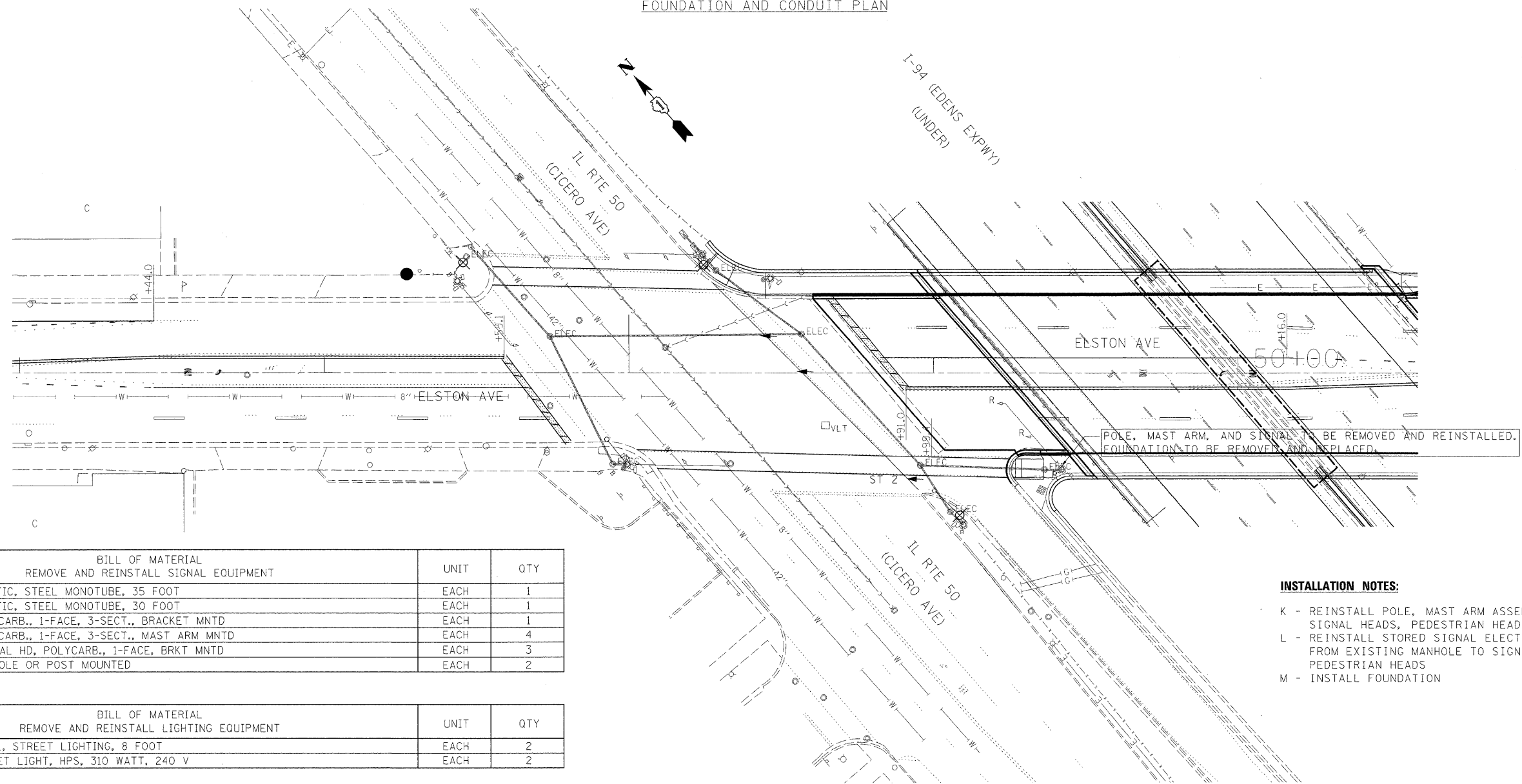


SIGNAL AND CABLE REMOVAL PLAN
NOT TO SCALE



SIGNAL AND CABLE PLAN

FOUNDATION AND CONDUIT PLAN

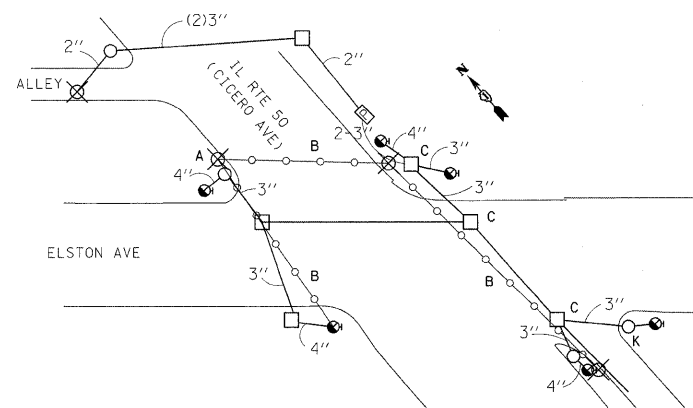


BILL OF MATERIAL REMOVE AND REINSTALL SIGNAL EQUIPMENT		
	UNIT	QTY
MAST ARM, TRAFFIC, STEEL MONOTUBE, 35 FOOT	EACH	1
MAST ARM, TRAFFIC, STEEL MONOTUBE, 30 FOOT	EACH	1
SIGNAL HD, POLYCARB., 1-FACE, 3-SECT., BRACKET MNTD	EACH	1
SIGNAL HD, POLYCARB., 1-FACE, 3-SECT., MAST ARM MNTD	EACH	4
PEDESTRIAN SIGNAL HD, POLYCARB., 1-FACE, BRKT MNTD	EACH	3
JUNCTION BOX, POLE OR POST MOUNTED	EACH	2

BILL OF MATERIAL REMOVE AND REINSTALL LIGHTING EQUIPMENT		
	UNIT	QTY
MAST ARM, STEEL, STREET LIGHTING, 8 FOOT	EACH	2
LUMINAIRE, STREET LIGHT, HPS, 310 WATT, 240 V	EACH	2

INSTALLATION NOTES:

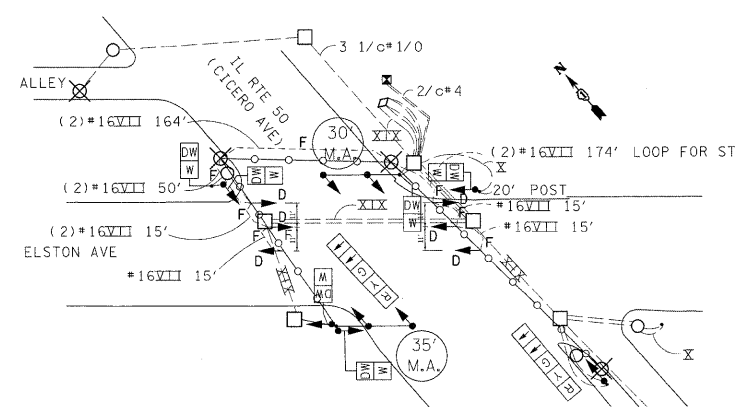
- K - REINSTALL POLE, MAST ARM ASSEMBLY, SIGNAL HEADS, PEDESTRIAN HEADS
- L - REINSTALL STORED SIGNAL ELECTRIC CABLE FROM EXISTING MANHOLE TO SIGNAL AND PEDESTRIAN HEADS
- M - INSTALL FOUNDATION



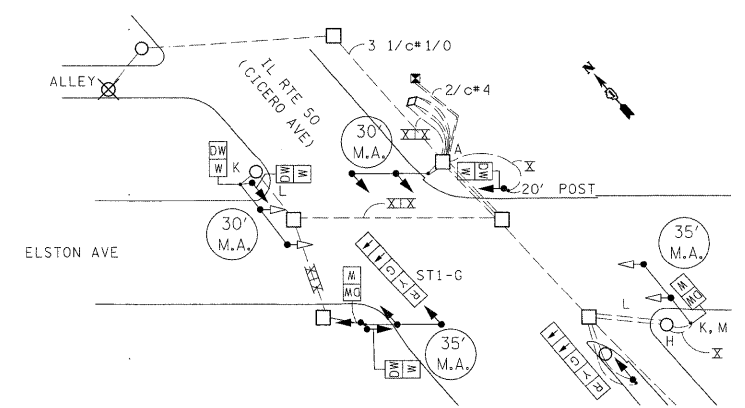
FOUNDATION REMOVAL PLAN
NOT TO SCALE

REMOVAL NOTES:

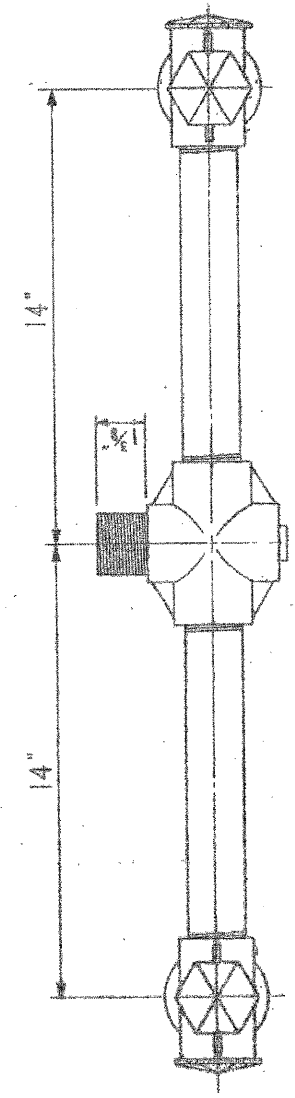
- A - REMOVE EXISTING TEMPORARY WOOD POLE
- B - REMOVE EXISTING SPAN AND TETHER WIRE
- C - MANHOLE WITH ADJUSTED FRAME AND LID
- D - REMOVE EXISTING SIGNAL HEADS
- E - REMOVE EXISTING PEDESTRIAN SIGNAL HEADS
- F - REMOVE EXISTING SIGNAL CABLE
- G - UNCOVER AND ENERGIZE EXISTING WESTBOUND SIGNAL HEAD
- H - UNCOVER AND ENERGIZE EXISTING SOUTHBOUND TURN ARROWS
- J - UNCOVER AND ENERGIZE EXISTING PEDESTRIAN SIGNAL HEAD
- K - REMOVE FOUNDATION



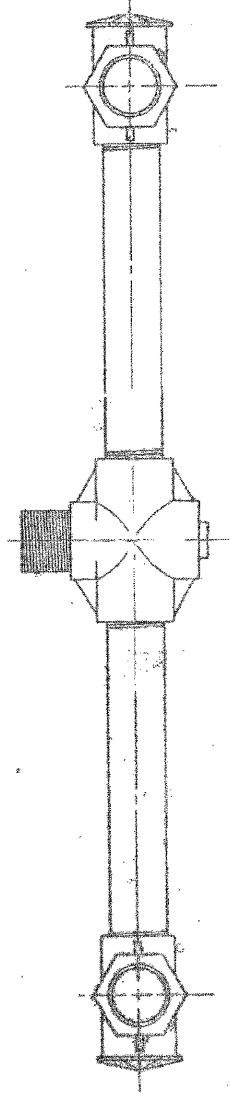
SIGNAL AND CABLE REMOVAL PLAN
NOT TO SCALE



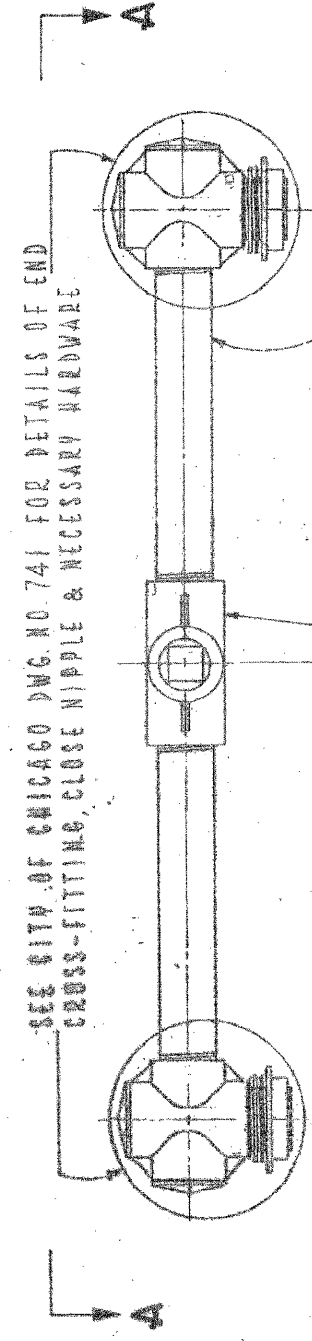
SIGNAL AND CABLE PLAN



TOP VIEW A - A

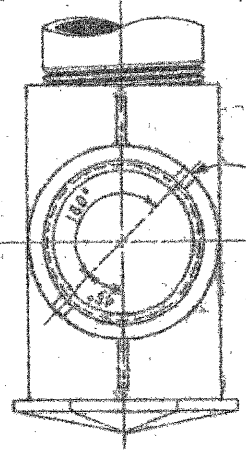


TOP VIEW B - B



FRONT VIEW

SCALE: 3/16" = 1"



SECTION C - C

SCALE: 1/2" = 1"

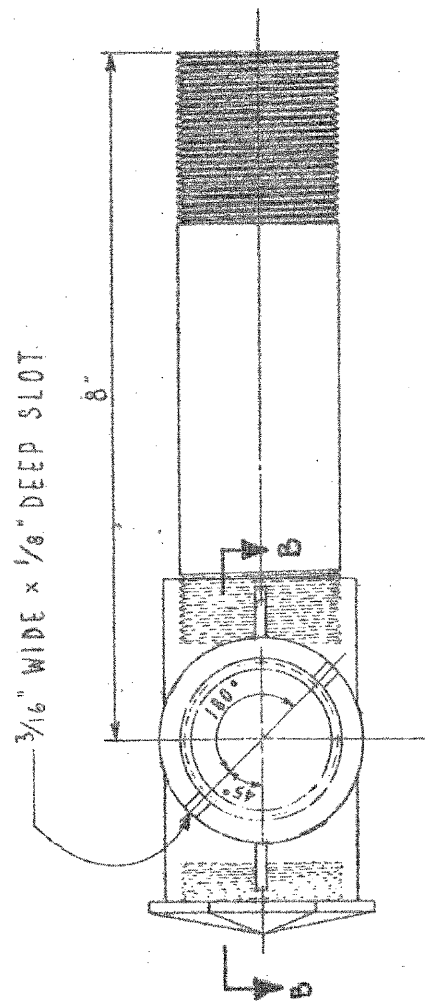
TRAFFIC SIGNAL UPPER & LOWER BRACKET ARM ASSEMBLY	
CITY OF CHICAGO	
DEPT. OF STREETS & SANITATION	
BUREAU OF ELECTRICITY	
DIVISION OF ELECTRIC ENGINEERING	
REVISED DRAWN: E. GERULIS	DESIGNED: L. CUCCI
A 1-23-1981	D.C. / M.S.
B	DRG. NO. 740
C	HQ. OF CONST. <i>Thomas Blaney</i>
D	1000 W. W. <i>Charles E. Buehler</i>
E	SCALE: AS NOTED
F	MFG. 8-21-74

REVISIONS	
NAME	DATE

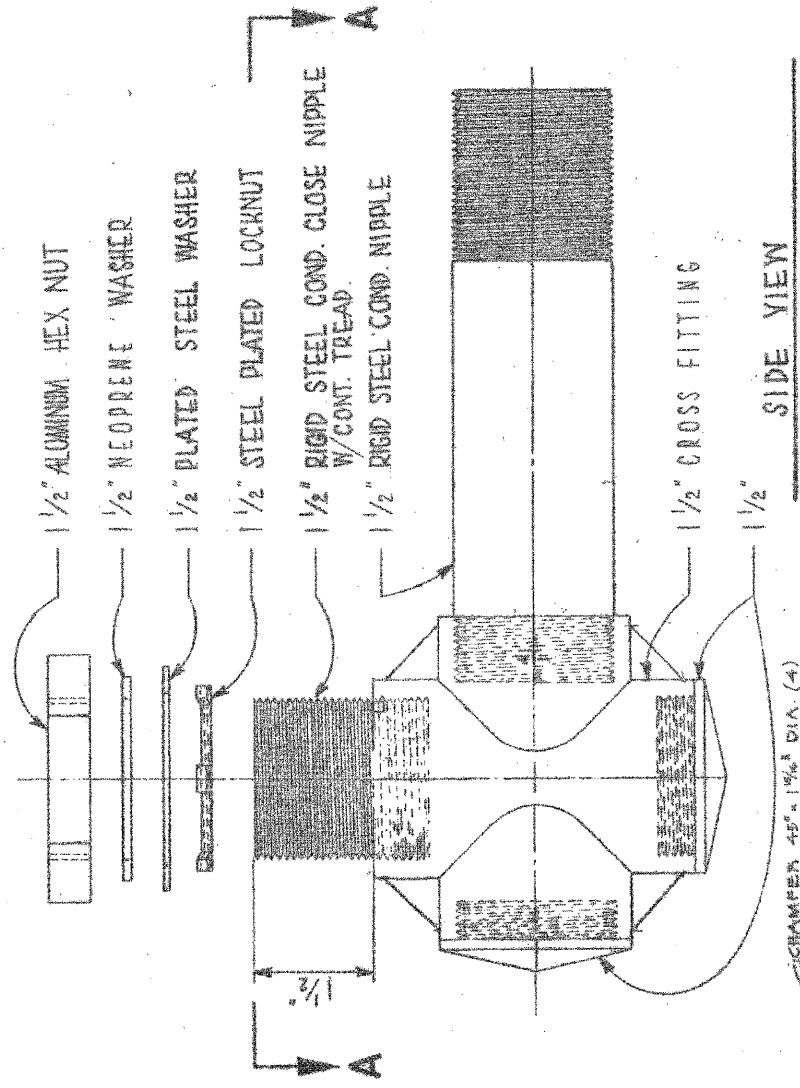
ILLINOIS DEPARTMENT OF TRANSPORTATION
ELSTON AVE. BRIDGE OVER I-94
 STANDARD SIGNAL DRAWINGS
 SHEET 1 OF 5
 SCALE: 1" = 20'
 DRAWN BY: MS
 CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	47

CONTRACT NO. 60C18

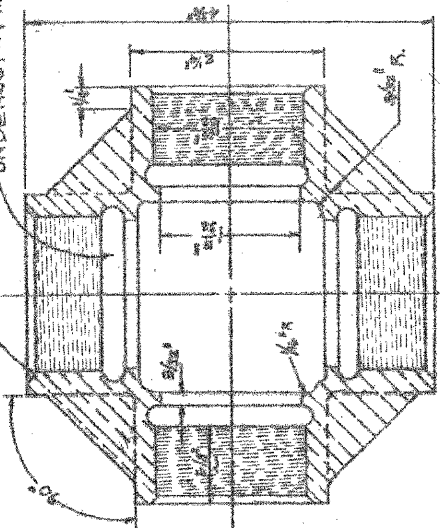


TOP VIEW A - A



SIDE VIEW

CHAMFER 45° ± 1/16" DIA. (4)
UNDERCUT - 1/16" DIA. 1/4" WIDE (4)



SECTION B - B

DELETE SET SCREWS
ADDED SECTION B-B

TRAFFIC SIGNAL BRACKET ARM ASSEMBLY

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

REVISIONS
A 1-23-81
B 12-6-86
C
D
E
F

CHECKED: *[Signature]*
DESIGNED: *[Signature]*
DWT. CONTROL: *[Signature]*
DEPT. OF STREETS & SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECT. ENGINEERING

DATE: 8-21-74

SCALE: 1" = 1"

REVISIONS	
NAME	DATE

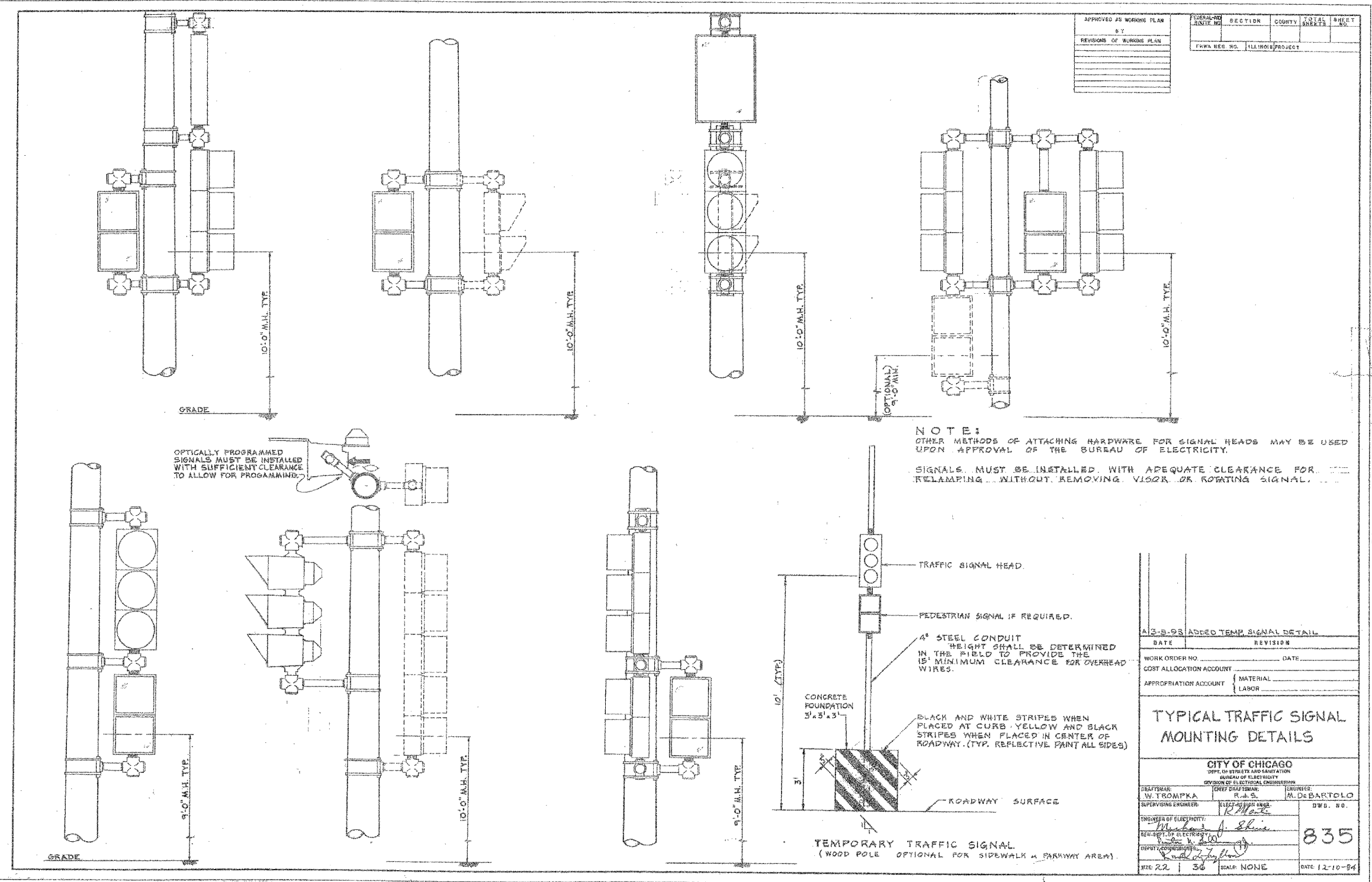
ILLINOIS DEPARTMENT OF TRANSPORTATION
ELSTON AVE. BRIDGE OVER I-94
STANDARD SIGNAL DRAWINGS
SHEET 2 OF 5

SCALE: 1"=20'

DRAWN BY: MS
CHECKED BY:

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	49

CONTRACT NO. 60C18



APPROVED AS WORKING PLAN	BY
REVISIONS OF WORKING PLAN	

FEDERAL-AID DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FHW A REG. NO. ILLINOIS PROJECT				

12-8-93 ADDED TEMP SIGNAL DETAIL

DATE	REVISION
WORK ORDER NO.	DATE
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT	MATERIAL
	LABOR

TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS

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

DRAFTSMAN: J.W. TROMITKA	CHIEF DRAFTSMAN: R.A.S.	ENGINEER: M. DE BARTOLO
SUPERVISING ENGINEER: R. M. W.	ELECTRICIAN: R. M. W.	D.W.B. NO. 835
ENGINEER OF ELECTRICITY: J. E. H.		
DEPT. ENGINEER: J. E. H.		
DEPT. ENGINEER: J. E. H.		

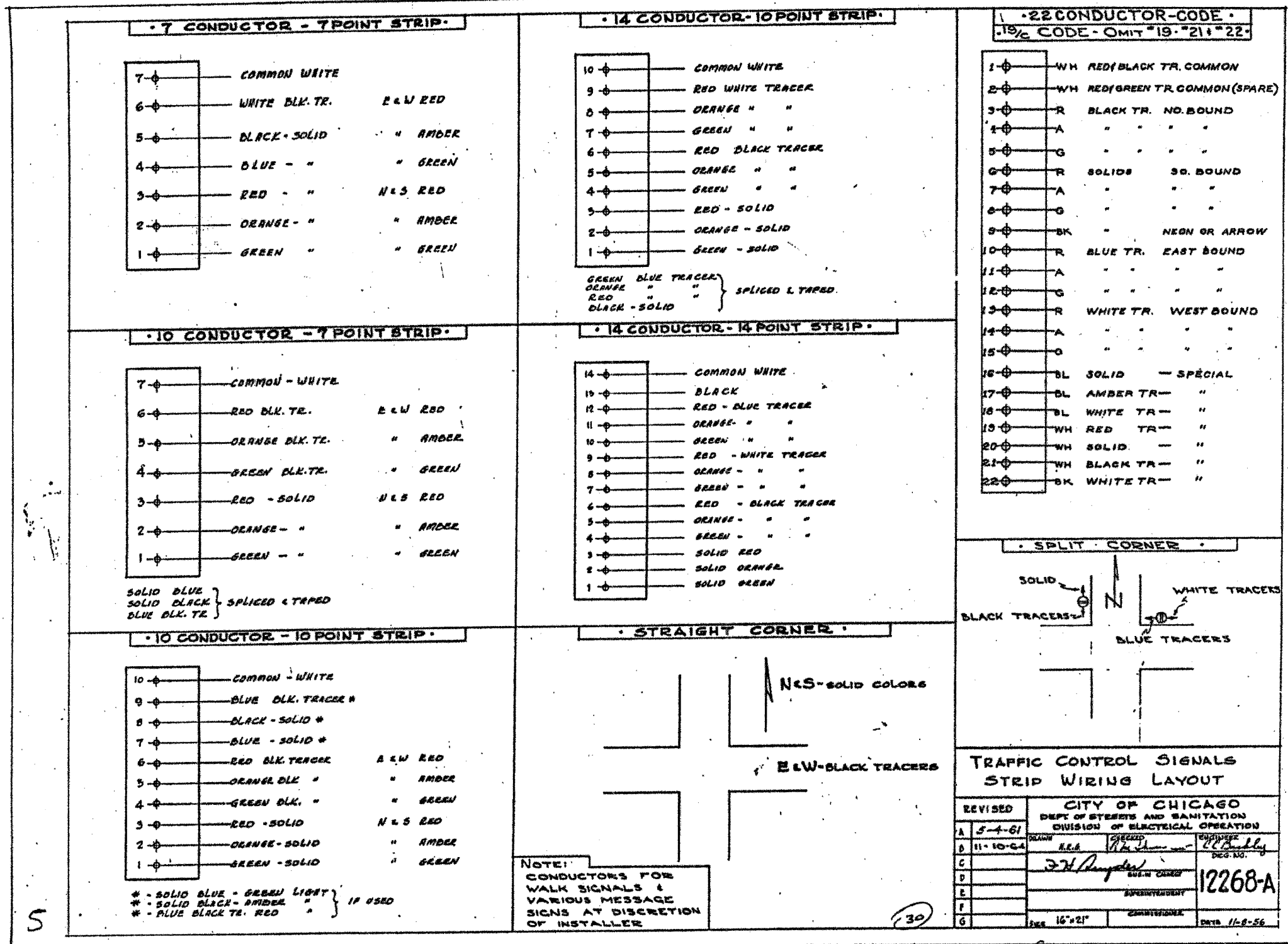
SIZE 22 | 36 SCALE NONE DATE 12-10-84

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELSTON AVE. BRIDGE OVER I-94
STANDARD SIGNAL DRAWINGS
SHEET 4 OF 5

SCALE: 1"=20' DRAWN BY MS CHECKED BY

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REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ELSTON AVE. BRIDGE OVER I-94
STANDARD SIGNAL DRAWINGS
SHEET 5 OF 5

SCALE: 1"=20'
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CHECKED BY:

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\$PENTBLS\$

\$PLTDVRS\$

ROADWAY LIGHTING SHEET INDEX

E-1 LEGEND, SYMBOLS & GENERAL NOTES
 E-2 SCHEDULE OF QUANTITIES
 E-3 DEMOLITION PLAN - CDOT
 E-4 DEMOLITION PLAN - IDOT
 E-5 TEMPORARY LIGHTING PLAN STAGE 1 - CDOT
 E-6 TEMPORARY LIGHTING PLAN STAGE 2 - CDOT
 E-7 TEMPORARY LIGHTING PLAN - IDOT
 E-8 TEMPORARY LIGHTING PLAN - IDOT
 E-9 PROPOSED LIGHTING PLAN - CDOT
 E-10 PROPOSED LIGHTING PLAN - IDOT
 E-11 LIGHTING DETAILS
 E-12 LIGHTING DETAILS
 E-13 LIGHTING DETAILS

IDOT DISTRICT 1 DETAILS

BE-322 LIGHT POLE FOUNDATION INTEGRAL WITH DOUBLE FACE BARRIER WALL
 BE-329 LIGHT POLE FOUNDATION ON CONCRETE PARAPET WALL, 11.5" (292 mm) BOLT CIRCLE
 BE-902 PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS

CHICAGO BUREAU OF ELECTRICITY STANDARD DRAWINGS

579 TRENCH BACKFILL
 659 2 BOLT MAST ARM ATTACHMENT - POLE PLATE
 724 2 BOLT MAST ARM ATTACHMENT - ARM PLATE
 763 3.95"x8.5" STEEL POLE / 32'-6" 3 GAUGE
 813 INSTALLATION OF CONDUIT UNDER PAVEMENT
 837 DOUBLE NUT CONSTRUCTION
 839 12 FOOT STEEL MAST ARM
 872 24" FRAME AND COVER
 874 30" FRAME
 10927 30" MANHOLE COVER

ABBREVIATIONS

A	AMPS
DIA	DIAMETER
C	CONDUCTOR
CDOT	CHICAGO DEPARTMENT OF TRANSPORTATION
GND	GROUND
FT	FEET
HPS	HIGH PRESSURE SODIUM
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION
P	PUSHED
PH	PHASE
PVC	POLYVINYL CHLORIDE
RGSC	RIGID GALVANIZED STEEL CONDUIT
STA	STATION
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATTS
W	WIRES

SYMBOL LIST

DESCRIPTION	PROPOSED	EXISTING TO REMAIN	EXISTING TO BE REMOVED
32'-6", 3 GAUGE, STEEL LIGHT POLE WITH 310 WATT HPS LUMINAIRE			
32'-6", 3 GAUGE, STEEL LIGHT POLE WITH 400 WATT HPS LUMINAIRE			
UNDERPASS LUMINAIRE, 70 WATT HPS			
JUNCTION BOX OR PULL BOX			
CONDUIT, ATTACHED TO STRUCTURE			
CONDUIT, EMBEDDED			
2" CONDUIT, BURIED WITH 2-1/C #6 AND 1-1/C #8 GROUND, TRIPLEXED.			
2 1/2" CONDUIT, PUSHED WITH UNIT DUCT (3/4" DIA. POLYETHYLENE WITH 3-1/C #10 AND 1-1/C#10 GROUND, EPR-TYPE USE)			
UNIT DUCT IN TRENCH, 3/4" DIA. POLYETHYLENE WITH 3-1/C #10 AND 1-1/C#10 GROUND, EPR-TYPE USE			
AERIAL CABLE			
COMED CONDUITS			
OEMC FIRE ALARM CABLES IN CONDUIT			
LIGHTING CONTROL CABINET, CITY OF CHICAGO			
MANHOLE			
ROADWAY LIGHTING UNIT MOUNTED ON MEDIAN BARRIER (RR: REMOVE AND REINSTALL)			
TEMPORARY ROADWAY LIGHTING UNIT, 400 W HPS, 50' MOUNTING HEIGHT, MOUNTED ON 60' CLASS 3 WOOD POLE.			
TEMPORARY WOOD POLE			

GENERAL NOTES - ROADWAY LIGHTING

- SPLICING OF CONDUCTORS SHALL BE IN POLE BASES OR WEATHER TIGHT JUNCTION BOXES ONLY. SPLICES BELOW GRADE WILL NOT BE PERMITTED.
- LIGHTING CIRCUITS SHALL BE WIRED IN ACCORDANCE WITH THE PLANS. DEVIATIONS WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK BEGINS. THE CONTRACTOR SHALL CONTACT THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT (847) 221-3079 AND THE CITY OF CHICAGO BUREAU OF ELECTRICITY AT 312-746-4646.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING (DECORATIVE ROCKS, PLANTS, ETC.). COSTS ASSOCIATED WITH THESE SPECIAL MEASURES SHALL BE INCIDENTAL TO THE PAY ITEM FOR TRENCH AND BACKFILL.
- ALL WORK SHALL CONFORM TO THE LATEST IDOT, IDOT DISTRICT 1 STANDARDS, CHICAGO BUREAU OF ELECTRICITY STANDARDS, SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW, UL LISTED AND LABELED.
- ALL CONDUITS SHALL BE SEALED.
- ALL CIRCUIT WIRES SHALL BE LABELED WITH CIRCUIT IDENTIFICATION.
- ALL LAMPS SHALL BE FURNISHED AS PART OF THE CONTRACT.
- CIRCUITS SHALL BE TESTED PER SPECIFICATION.
- THE LOCATIONS OF ALL PROPOSED EQUIPMENT ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATION IN THE FIELD SHALL MEET THE APPROVAL OF THE ENGINEER.
- ALL MEASUREMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY MEASUREMENTS IN THE FIELD.
- THE EXISTING LIGHTING SYSTEM VOLTAGE ON ELSTON AVENUE IS 240 VOLT, 1-PHASE. THE EXISTING LIGHTING SYSTEM VOLTAGE ON I-94 IS 480 VOLT 1-PHASE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTING INSTALLATIONS AND DATA PRIOR TO BIDDING.
- TEMPORARY LIGHTING SHALL REMAIN IN SERVICE UNTIL THE PERMANENT LIGHTING SYSTEM IS IN OPERATION.
- THE COST OF SPLICING TEMPORARY CONDUCTORS TO EXISTING CONDUCTORS IN EXISTING POLES SHALL BE INCIDENTAL TO THE PAY ITEM FOR AERIAL CABLE.
- GROUNDING CONDUCTORS SHALL BE CONTINUOUS.
- ALL NEW UNDERGROUND CONDUITS SHALL BE PLACED A MINIMUM OF 30" BENEATH THE GROUND SURFACE (FINAL GRADE).

\$PENTBL\$

\$PLTDRV\$

IDOT - LIGHTING

S.P.	IDOT ITEM NO.	DESCRIPTION	UNIT	QUANTITY IDOT
	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60
	81100320	CONDUIT ATTACHED TO STRUCTURE 1" DIA. PVC COATED GALVANIZED STEEL	FOOT	400
	81100805	CONDUIT ATTACHED TO STRUCTURE 3" DIA. PVC COATED GALVANIZED STEEL	FOOT	20
	81200270	CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT	450
	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	4
	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	2
	81300730	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 14" X 6"	EACH	1
*		JUNCTION BOX, COMPOSITE CONCRETE, EMBEDDED IN STRUCTURE, 20"X13"X12"	EACH	1
*	81306500	REMOVE EXISTING JUNCTION BOX	EACH	1
	81603140	UNIT DUCT, 600V, 3-1/C NO.10, 1/C NO.10 GROUND, (EPR-TYPE RHW), 3/4" DIA. POLYETHYLENE	FOOT	300
	81603205	UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO.4 GROUND, (EPR-TYPE RHW), 1 1/4" DIA. POLYETHYLENE	FOOT	550
	81700110	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 1/C NO. 10	FOOT	1400
	81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	400
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	120
	82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	4
	82107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	4
*		LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY)	EACH	5
*		LIGHT POLE, STEEL, 32.5 FT. M.H. (INSTALL ONLY)	EACH	5
*		MAST ARM, STEEL, 12 FT. (INSTALL ONLY)	EACH	5
	83057340	LIGHT POLE, WOOD, 60 FOOT, CLASS 3	EACH	3
	83057345	LIGHT POLE, WOOD, 60 FOOT, CLASS 3 WITH 15 FT MAST ARM	EACH	4
	83057470	LIGHT POLE, WOOD, 90 FOOT, CLASS 3	EACH	1
	83057475	LIGHT POLE, WOOD, 90 FOOT, CLASS 3 WITH 15 FT MAST ARM	EACH	1
	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	14
	84100110	REMOVAL OF TEMPORARY LIGHTING UNITS	EACH	8
*	84200806	REMOVAL POLE FOUNDATION, CONCRETE	EACH	2
	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2
	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	1000
*	X0323157	REMOVE LUMINAIRE FROM UNDERPASS	EACH	2
*	X0323710	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	300
*	X0324574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12

CDOT - LIGHTING

S.P.	BOE ITEM NO.	DESCRIPTION	UNIT	QUANTITY CDOT
	124	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	300
	128	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	24
		CONDUIT EMBEDDED IN STRUCTURE, 2 1/2" DIA., PVC	FOOT	800
		JUNCTION BOX, CAST IRON EMBEDDED IN STRUCTURE, 18" X 12" X 8"	EACH	2
*		REMOVE EXISTING JUNCTION BOX	EACH	1
	108	TRENCH AND BACKFILL WITH SCREENINGS OR SAND	EACH	75
*	228	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (FURNISH ONLY)	EACH	5
*	221	LIGHT POLE, STEEL, 32.5 FT. M.H. (FURNISH ONLY)	EACH	5
*	221	MAST ARM, STEEL, 12 FT. (FURNISH ONLY)	EACH	5
	515/526/530	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	5
		REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3000
	144	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	200
	243	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	110
	249	TRIPLEX CABLE IN CONDUIT 2 NO.6 AND 1 NO.8 (3TC)	FOOT	1000
*		REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	80
	186	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1
*		MAINTENANCE OF LIGHTING SYSTEM	CAL MO	12
	122	ELECTRICAL FRAME AND LID, 30"	EACH	4
	123	CLEAN EXISTING MANHOLE OR HANDHOLE	EACH	2
	541	REMOVAL OF AERIAL CABLE AND MESSENGER WIRE	FOOT	350

FILE NAME = \$FILES\$
PLOT DATE = \$DATE\$

SPAAN Tech, Inc.
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Chicago, Illinois 60606
phone: 312.277.8800
fax: 312.277.8800
web: www.SpaanTech.com

DESIGNED - I. A. B.	REVISED -
DRAWN - R. B. G.	REVISED -
CHECKED - A. D. O.	REVISED -
DATE - MAY 2010	REVISED -

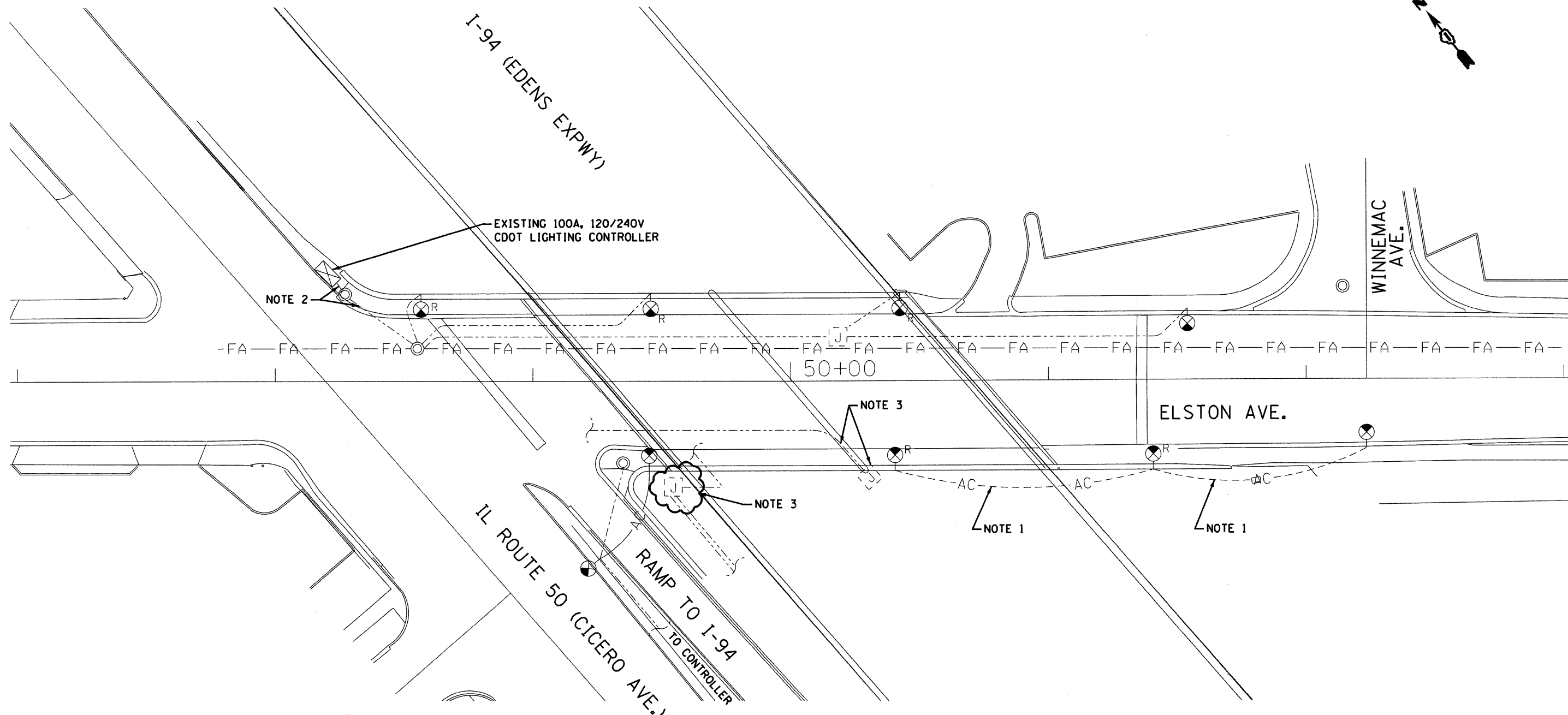
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
ELSTON AVENUE OVER I-94			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.BB	COOK	139	52
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

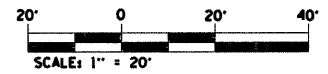
\$PENTBLS\$

\$PLTDVRS\$



NOTES

1. REMOVE EXISTING AERIAL CABLE.
2. REMOVE CONDUCTORS FROM EXISTING CONDUIT.
3. EXISTING CONDUIT AND JUNCTION BOX FOR TRAFFIC CONTROL. COORDINATE REMOVAL WITH TRAFFIC SIGNAL CONTRACTOR.
4. EXISTING STREET LIGHTS ON NORTH SIDE OF ELSTON AVENUE TO REMAIN IN SERVICE DURING STAGE 1 CONSTRUCTION.



E-3

FILE NAME = \$FILES\$
PLOT DATE = \$DATE\$

SPAAN Tech, Inc.
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 fax: 312.277.8806
 web: www.SpaanTech.com

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DRAWN - R. B. G.	REVISED -
CHECKED - A. D. O.	REVISED -
DATE - MAY 2010	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DEMOLITION PLAN - CDOT
 ELSTON AVENUE OVER I-94

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	53
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

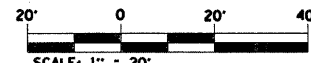
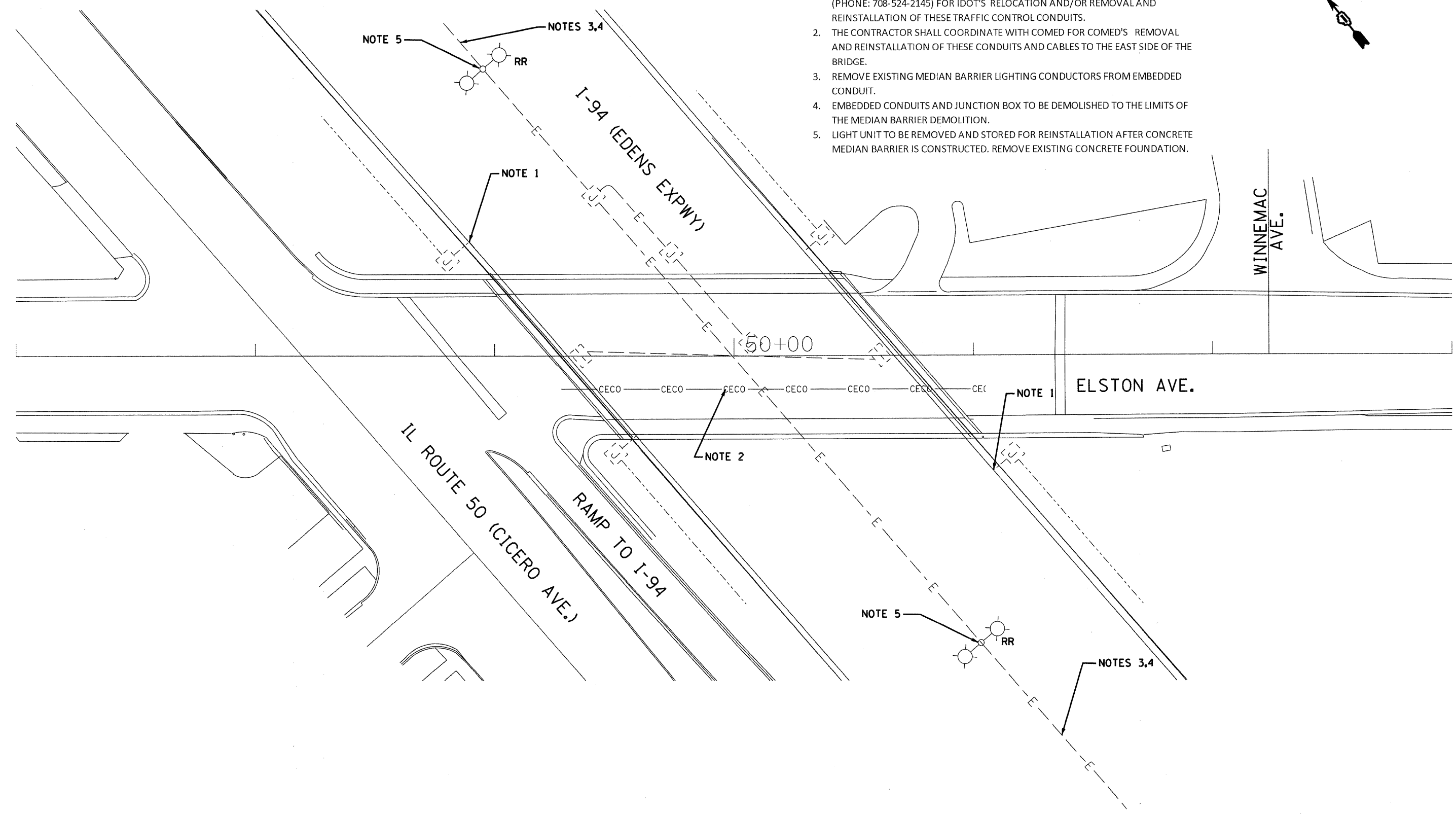
NOTES

1. THE CONTRACTOR SHALL COORDINATE WITH THE IDOT TRAFFIC SYSTEMS CENTER (PHONE: 708-524-2145) FOR IDOT'S RELOCATION AND/OR REMOVAL AND REINSTALLATION OF THESE TRAFFIC CONTROL CONDUITS.
2. THE CONTRACTOR SHALL COORDINATE WITH COMED FOR COMED'S REMOVAL AND REINSTALLATION OF THESE CONDUITS AND CABLES TO THE EAST SIDE OF THE BRIDGE.
3. REMOVE EXISTING MEDIAN BARRIER LIGHTING CONDUCTORS FROM EMBEDDED CONDUIT.
4. EMBEDDED CONDUITS AND JUNCTION BOX TO BE DEMOLISHED TO THE LIMITS OF THE MEDIAN BARRIER DEMOLITION.
5. LIGHT UNIT TO BE REMOVED AND STORED FOR REINSTALLATION AFTER CONCRETE MEDIAN BARRIER IS CONSTRUCTED. REMOVE EXISTING CONCRETE FOUNDATION.



\$PENTBLS\$

\$PLTDVRS\$



E-4

FILE NAME = #FILES#
PLOT DATE = #DATE#

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CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

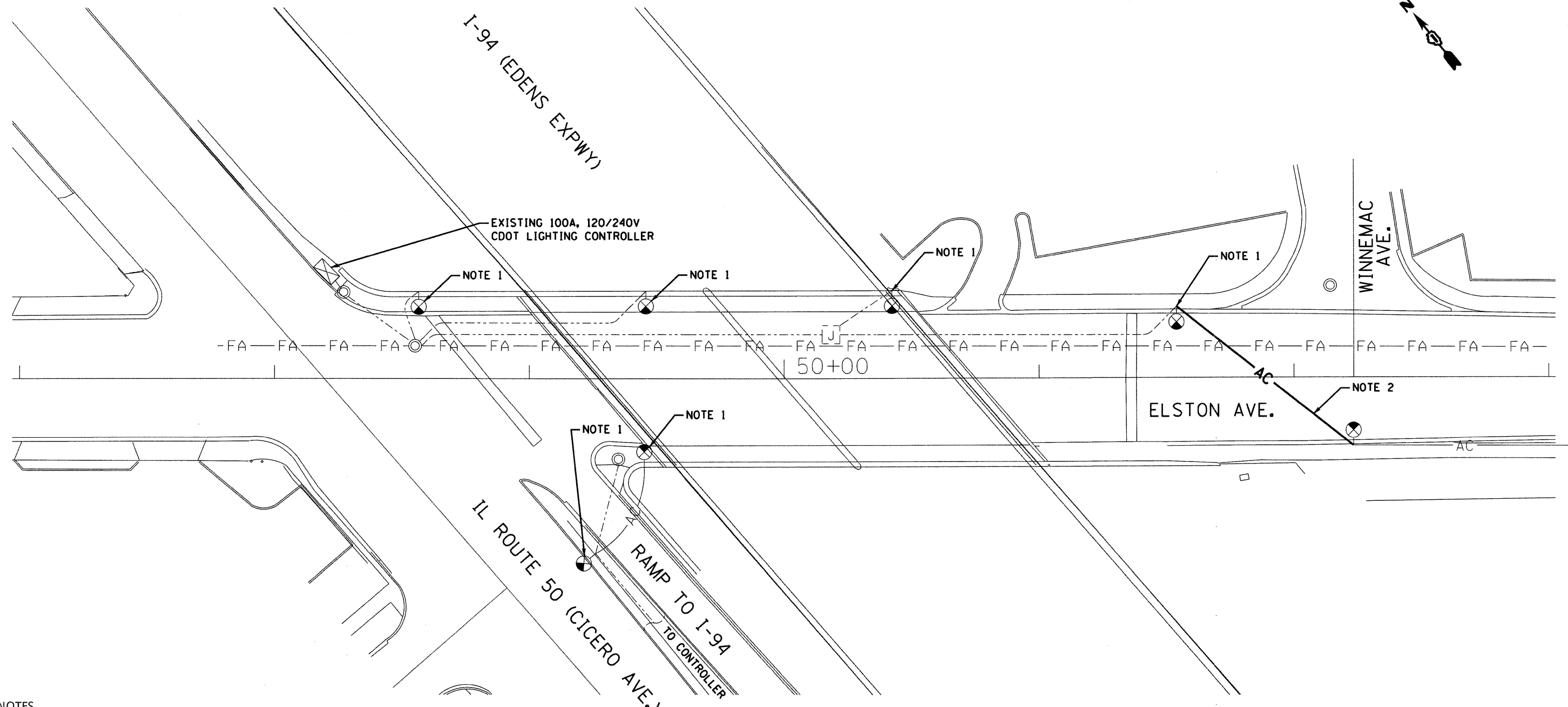
**DEMOLITION PLAN - IDOT
ELSTON AVENUE OVER I-94**

SCALE: 1" = 20" SHEET NO. 1 OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.BB	COOK	139	54
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

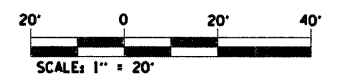
\$PENTBL\$

\$PLTDV\$



NOTES

- 1. EXISTING LIGHT UNITS TO REMAIN IN SERVICE FOR TEMPORARY LIGHTING DURING STAGE 1 CONSTRUCTION.
- 2. INSTALL 3-1/C #2 AERIAL CABLE WITH MESSENGER WIRE.



E-5

FILE NAME = #FILES#
 PLOT DATE = #DATE#

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CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

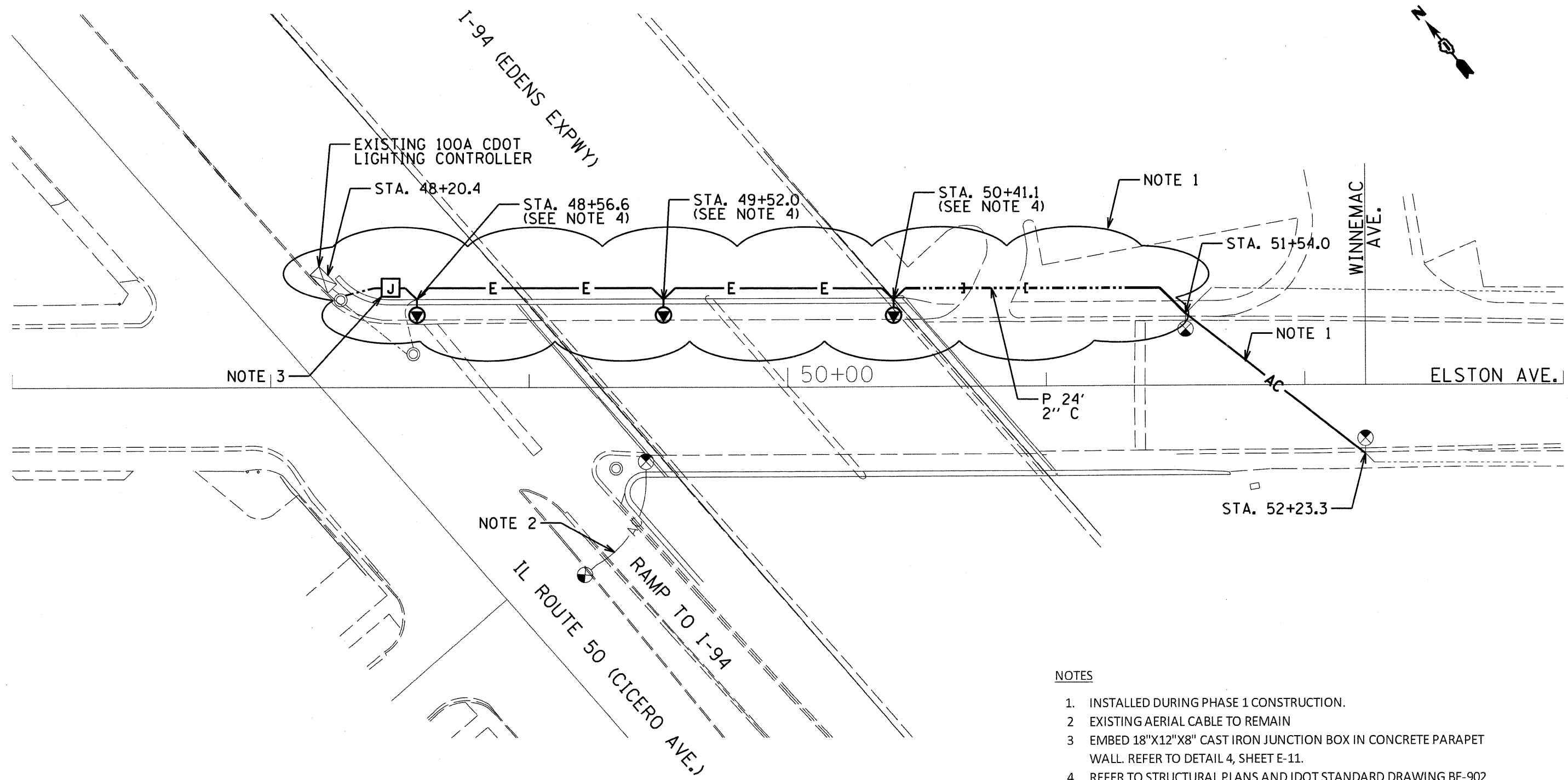
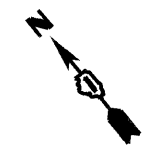
**TEMPORARY LIGHTING PLAN STAGE 1 - CDOT
 ELSTON AVENUE OVER I-94**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	55
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

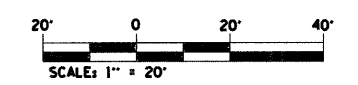
\$PENTBLS\$

\$PLTDVRS\$



NOTES

- 1. INSTALLED DURING PHASE 1 CONSTRUCTION.
- 2. EXISTING AERIAL CABLE TO REMAIN
- 3. EMBED 18"X12"X8" CAST IRON JUNCTION BOX IN CONCRETE PARAPET WALL. REFER TO DETAIL 4, SHEET E-11.
- 4. REFER TO STRUCTURAL PLANS AND IDOT STANDARD DRAWING BE-902 FOR FOUNDATION DETAILS.



E-6

FILE NAME = \$FILES\$
 PLOT DATE = \$DATE\$

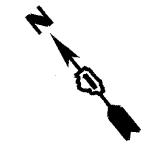
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CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

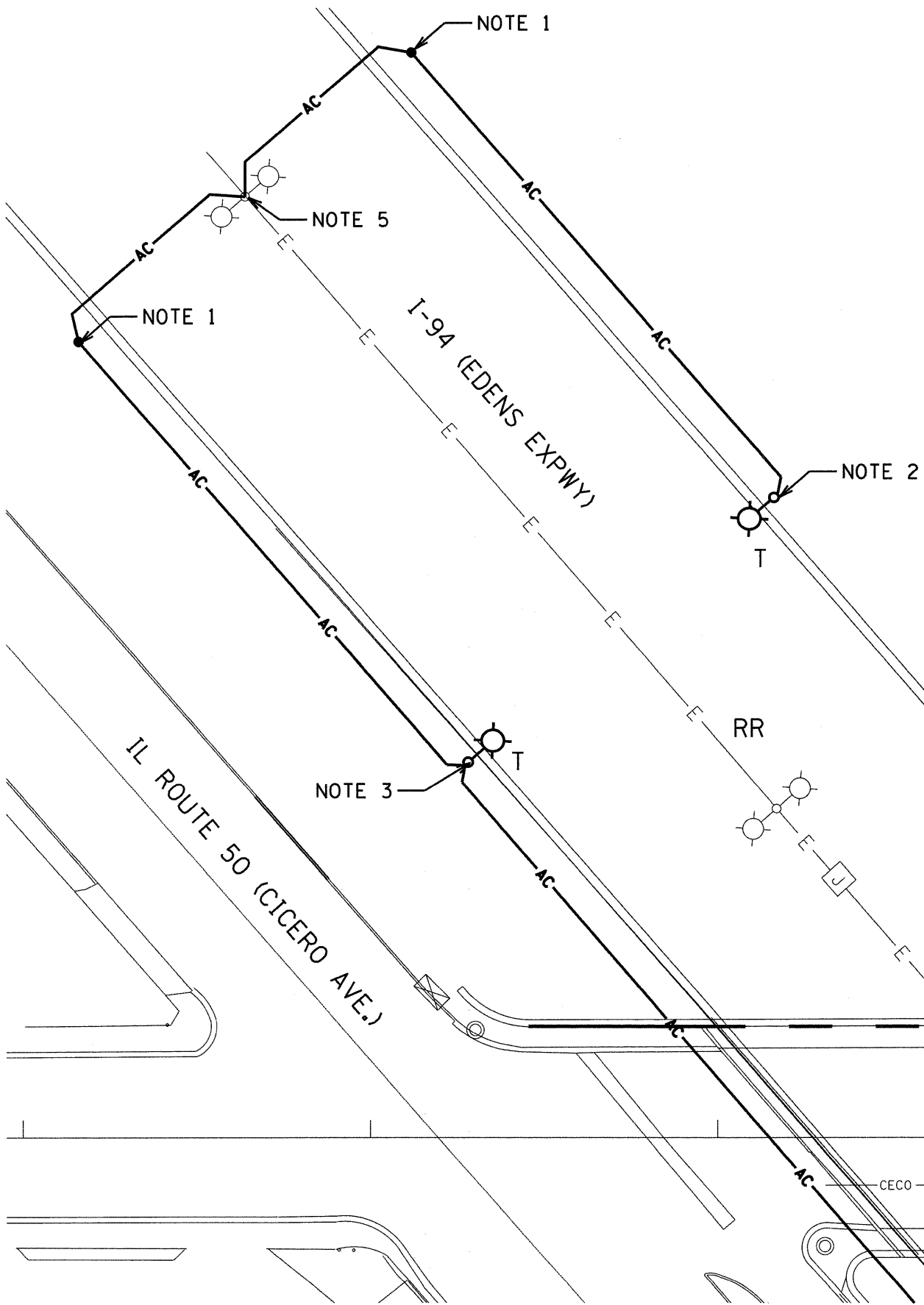
TEMPORARY LIGHTING PLAN STAGE 2 - CDOT ELSTON AVENUE OVER I-94			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	56
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	



\$PENTBL\$

\$PLTDV\$



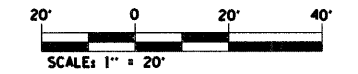
NOTES

1. TEMPORARY 60' CLASS 3 WOOD POLE. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO GROUND PER CITY OF CHICAGO ELECTRICAL CODE.
2. TEMPORARY 60' CLASS 3 WOOD POLE WITH 15' MAST ARM AND 400 WATT HPS LUMINAIRE. LUMINAIRE MOUNTING HEIGHT SHALL BE 50'. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO GROUND PER CITY OF CHICAGO ELECTRICAL CODE
3. TEMPORARY 90' CLASS 3 WOOD POLE WITH 15' MAST ARM AND 400 WATT HPS LUMINAIRE. LUMINAIRE MOUNTING HEIGHT SHALL BE 50'. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE MAXIMUM CLEARANCE TO OVER ELSTON AVENUE WHILE PROVIDING CLEARANCE TO GROUND PER NATIONAL ELECTRICAL CODE SECTION 225.18.
4. ALL AERIAL CABLES FOR TEMPORARY LIGHTING SHALL BE 3-1/C #2 WITH MESSENGER WIRE.
5. SECURE AERIAL CABLE ATTACHMENT TO POLE WITH A POLE BAND AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO GROUND PER CITY OF CHICAGO ELECTRICAL CODE SECTION 18-27-225.18. REMOVE POLE CAP AND INSERT CONDUCTORS THROUGH TOP OF POLE. CONNECT TO EXISTING CIRCUITS AT BASE OF POLE. REPLACE POLE CAP WHEN TEMPORARY AERIAL CABLE IS REMOVED.

SHEET E-8 MATCH LINE

50+00

ELSTON AVE.



E-7

FILE NAME = \$FILES\$
PLOT DATE = \$DATES\$

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CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

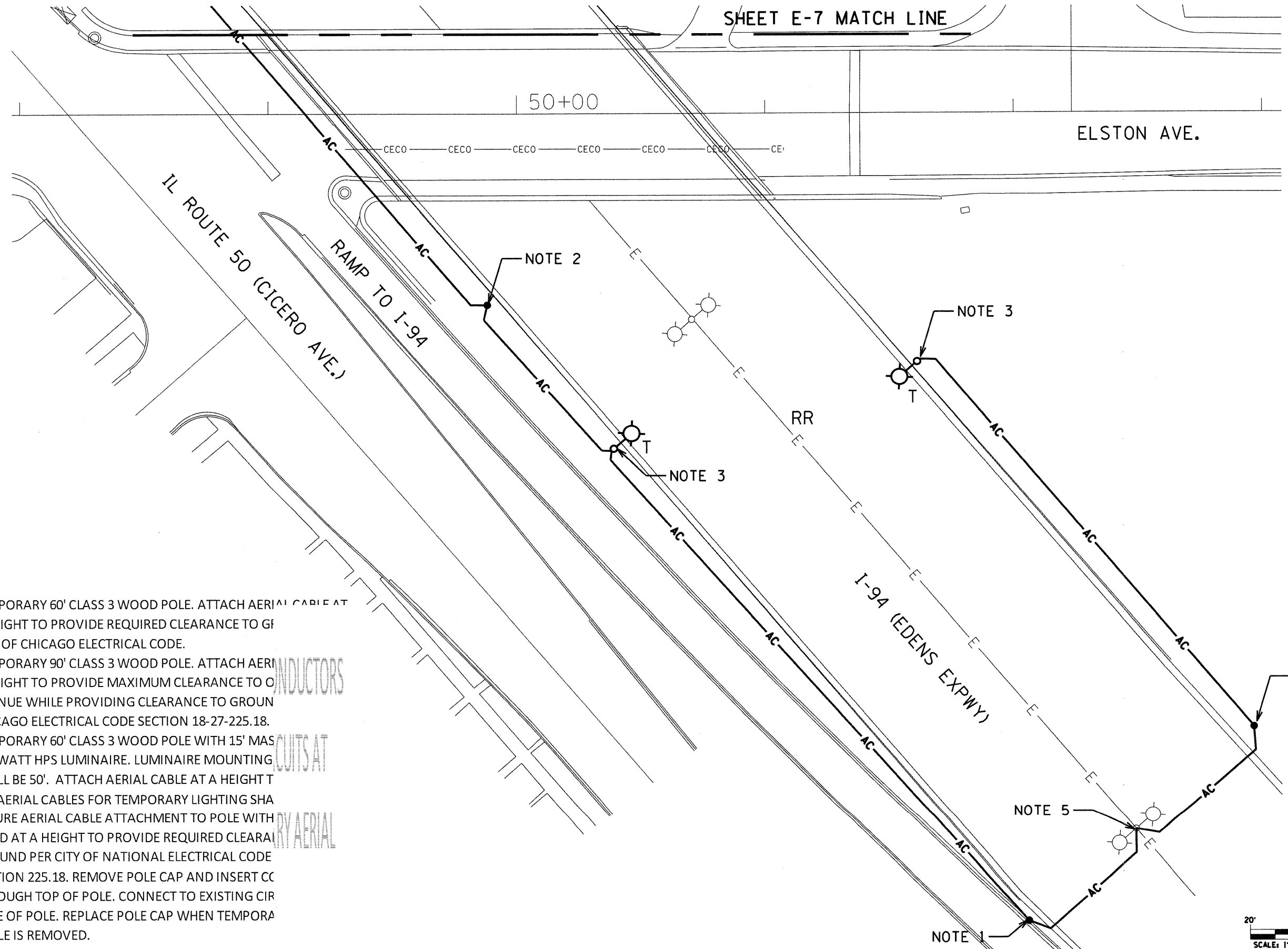
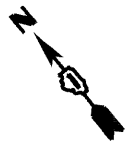
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING PLAN - IDOT
ELSTON AVENUE OVER I-94**

SCALE: 1" = 20' SHEET NO. 1 OF SHEETS STA. TO STA.

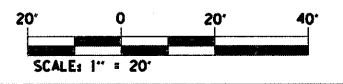
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.BB	COOK	139	57
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

SHEET E-7 MATCH LINE



NOTES

1. TEMPORARY 60' CLASS 3 WOOD POLE. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO CITY OF CHICAGO ELECTRICAL CODE.
2. TEMPORARY 90' CLASS 3 WOOD POLE. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE MAXIMUM CLEARANCE TO OPEN AVENUE WHILE PROVIDING CLEARANCE TO GROUND PER CHICAGO ELECTRICAL CODE SECTION 18-27-225.18.
3. TEMPORARY 60' CLASS 3 WOOD POLE WITH 15' MAXIMUM SPAN. 400 WATT HPS LUMINAIRE. LUMINAIRE MOUNTING SHALL BE 50'. ATTACH AERIAL CABLE AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO OPEN AVENUE WHILE PROVIDING CLEARANCE TO GROUND PER CHICAGO ELECTRICAL CODE SECTION 18-27-225.18.
4. ALL AERIAL CABLES FOR TEMPORARY LIGHTING SHALL BE SECURELY ATTACHED TO POLE WITH AERIAL BAND AT A HEIGHT TO PROVIDE REQUIRED CLEARANCE TO GROUND PER CITY OF NATIONAL ELECTRICAL CODE SECTION 225.18. REMOVE POLE CAP AND INSERT CONDUCTOR THROUGH TOP OF POLE. CONNECT TO EXISTING CIRCUIT BASE OF POLE. REPLACE POLE CAP WHEN TEMPORARY CABLE IS REMOVED.



E-8

FILE NAME = #FILES#
PLOT DATE = #DATE#

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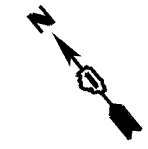
DESIGNED	I. A. B.	REVISED	-
DRAWN	R. B. G.	REVISED	-
CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

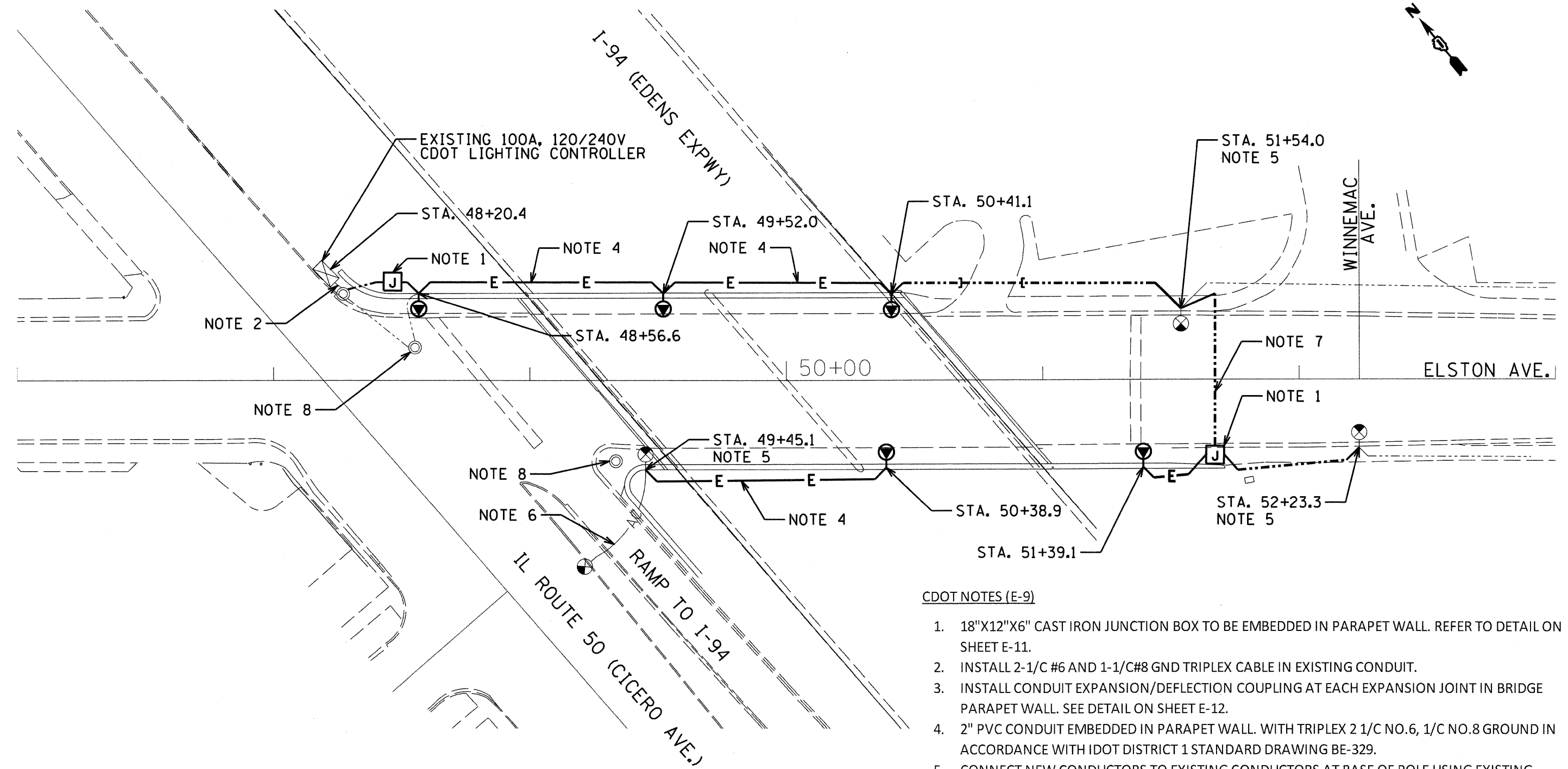
**TEMPORARY LIGHTING PLAN - IDOT
ELSTON AVENUE OVER I-94**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A.J. RTE. 94	SECTION 0101.BB	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 58
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

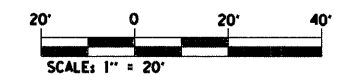


\$PENTBLS\$
\$PLTDVRS\$



CDOT NOTES (E-9)

1. 18"X12"X6" CAST IRON JUNCTION BOX TO BE EMBEDDED IN PARAPET WALL. REFER TO DETAIL ON SHEET E-11.
2. INSTALL 2-1/C #6 AND 1-1/C#8 GND TRIPLEX CABLE IN EXISTING CONDUIT.
3. INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT EACH EXPANSION JOINT IN BRIDGE PARAPET WALL. SEE DETAIL ON SHEET E-12.
4. 2" PVC CONDUIT EMBEDDED IN PARAPET WALL. WITH TRIPLEX 2 1/C NO.6, 1/C NO.8 GROUND IN ACCORDANCE WITH IDOT DISTRICT 1 STANDARD DRAWING BE-329.
5. CONNECT NEW CONDUCTORS TO EXISTING CONDUCTORS AT BASE OF POLE USING EXISTING CONDUIT SLEEVES IN FOUNDATION.
6. EXISTING AERIAL CABLE TO REMAIN.
7. COORDINATE CONDUIT INSTALLATION WITH PAVING FOR BRIDGE WORK.
8. ADJUST MANHOLE FRAME AND COVER FOR NEW PAVEMENT.
9. ALL CITY OF CHICAGO STREET LIGHT CONDUCTORS IN CONDUIT SHALL BE 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND.
10. INSTALL CONDUIT EXPANSION/DEFLECTION COUPLING AT EACH PARAPET WALL EXPANSION JOINT. REFER TO DETAIL ON SHEET E-12.



E-9

FILE NAME = \$FILES\$
PLOT DATE = \$DATES\$

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CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

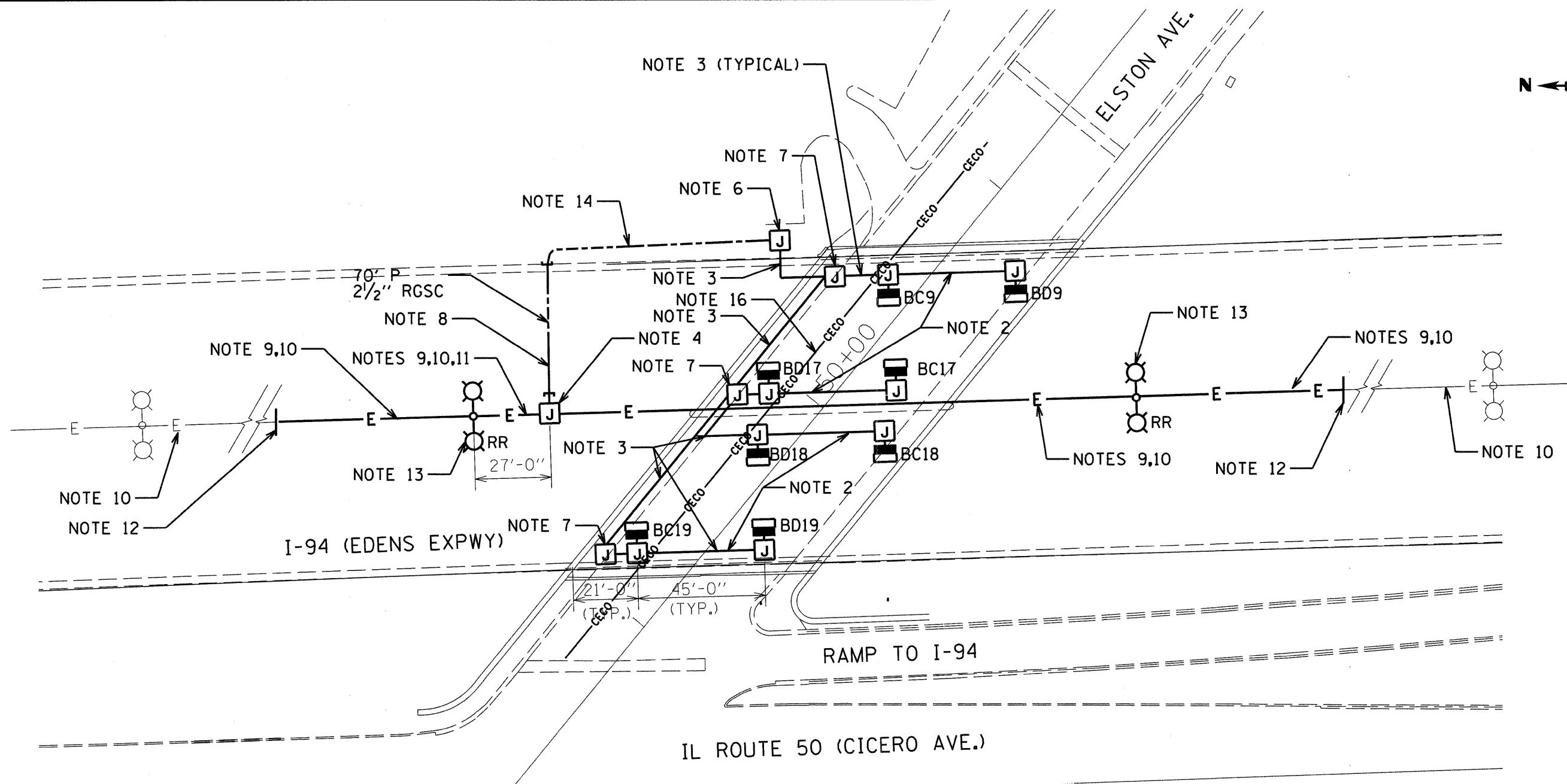
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING PLAN - CDOT ELSTON AVENUE OVER I-94			
SCALE: 1" = 20'	SHEET NO.	OF	SHEETS
	STA.	TO	STA.

F.A.J. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 59
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60C18				

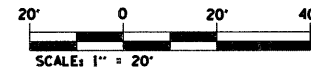
\$PENTBLS\$

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NOTES

1. MOUNT UNDERPASS LUMINAIRES ON ABUTMENT WALL 16'-0" MINIMUM ABOVE GRADE. REFER TO SHEET E-9 FOR UNDERPASS LIGHTING DETAILS.
2. 1" PVC COATED RGSC WITH 2-1/C#10 AND 1-1/C #10 GROUND ATTACHED TO STRUCTURE.
3. 1" PVC COATED RGSC WITH 3-1/C#10 AND 1-1/C #10 GROUND ATTACHED TO STRUCTURE.
4. EMBED 20"X13"X12" COMPOSITE CONCRETE JUNCTION BOX IN CONCRETE MEDIAN BARRIER. COVER SHALL BE FLUSH WITH EAST FACE OF BARRIER. REFER TO SHEET E-11 FOR JUNCTION BOX DETAILS.
5. UNLESS NOTED OTHERWISE ALL JUNCTION BOXES ATTACHED TO STRUCTURE SHALL BE 6"X6"X4" STAINLESS STEEL.
6. MOUNT 16"X14"X6" STAINLESS STEEL JUNCTION BOX TO NORTH WINGWALL 9'-0" ABOVE GRADE. REFER TO SHEET E-13 FOR WIRING DETAIL.
7. ATTACH 12"X10"X6" STAINLESS STEEL JUNCTION BOX TO STRUCTURE.
8. PUSH 1-2 1/2" RGSC UNDER ROADWAY. INSTALL 3/4" UNIT DUCT WITH 3-1/C #10 AND 1-1/C#10 GROUND FOR UNDERPASS LIGHTING.
9. EMBED 3-4" PVC CONDUITS IN NEW MEDIAN BARRIER. REFER TO SHEET E-11 FOR DETAILS.
10. INSTALL 1-1/4" UNIT DUCT WITH 3-1/C #4 AND 1-1/C#4 GROUND LIGHTING CONDUCTORS IN 4" PVC EMBEDDED IN MEDIAN BARRIER BETWEEN LIGHT UNITS FOR MEDIAN BARRIER MOUNTED LIGHT UNITS
11. INSTALL 3/4" UNIT DUCT WITH 3-1/C #10 AND 1-1/C#10 GROUND UNDERPASS LIGHTING CONDUCTORS IN 4" PVC EMBEDDED IN MEDIAN BARRIER BETWEEN LIGHT UNIT AND JUNCTION BOX FOR UNDERPASS LIGHTING.
12. CONNECT NEW EMBEDDED 4" PVC CONDUITS TO EXISTING 4" PVC CONDUITS WITH THE PROPER SIZE COUPLINGS IN BASE OF MEDIAN BARRIER.
13. REMOVE AND REPLACE EXISTING LIGHTING UNIT. INSTALL NEW CONCRETE FOUNDATION FOR MEDIAN BARRIER LIGHT POLE IN SAME LOCATION AS EXISTING.
14. INSTALL 3/4" UNIT DUCT WITH 3-1/C #10 AND 1-1/C#10 GROUND LIGHTING CONDUCTORS IN TRENCH FOR UNDERPASS LIGHTING.
15. INSTALL CONDUIT EXPANSION COUPLING AT EACH MEDIAN BARRIER EXPANSION JOINT. REFER TO DETAIL ON SHEET E-12.
16. CONDUITS AND CABLES TO BE RELOCATED BY COMED.



E-10

FILE NAME = \$FILES\$
PLOT DATE = \$DATE\$

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CHECKED	A. D. O.	REVISED	
DATE	MAY 2010	REVISED	

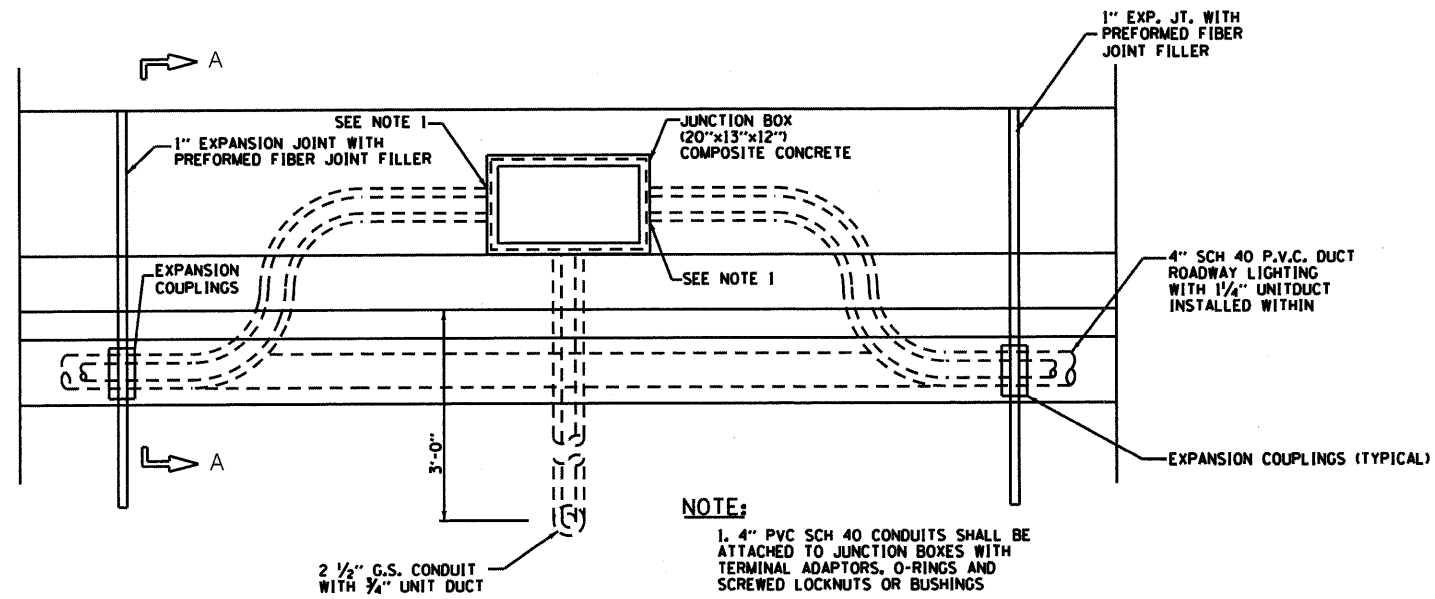
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN - IDOT
ELSTON AVENUE OVER I-94**
 SCALE: 1" = 20" SHEET NO. 1 OF SHEETS STA. TO STA.

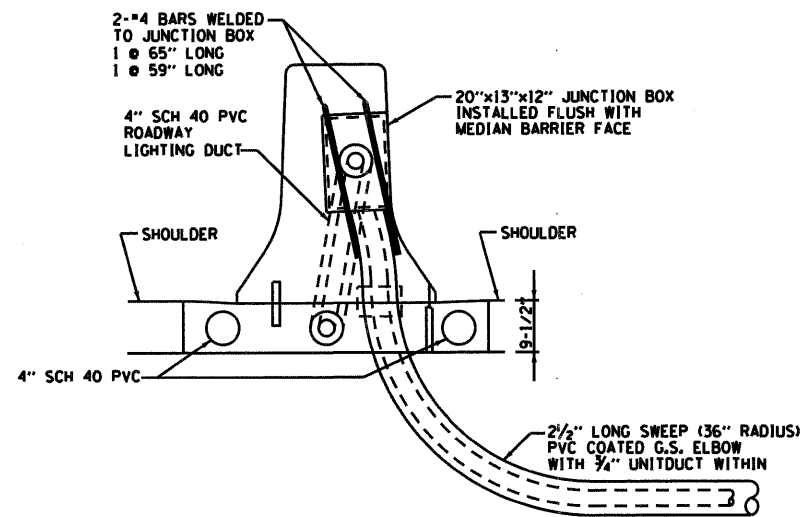
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	60
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 60C18	

\$PENTBLS\$

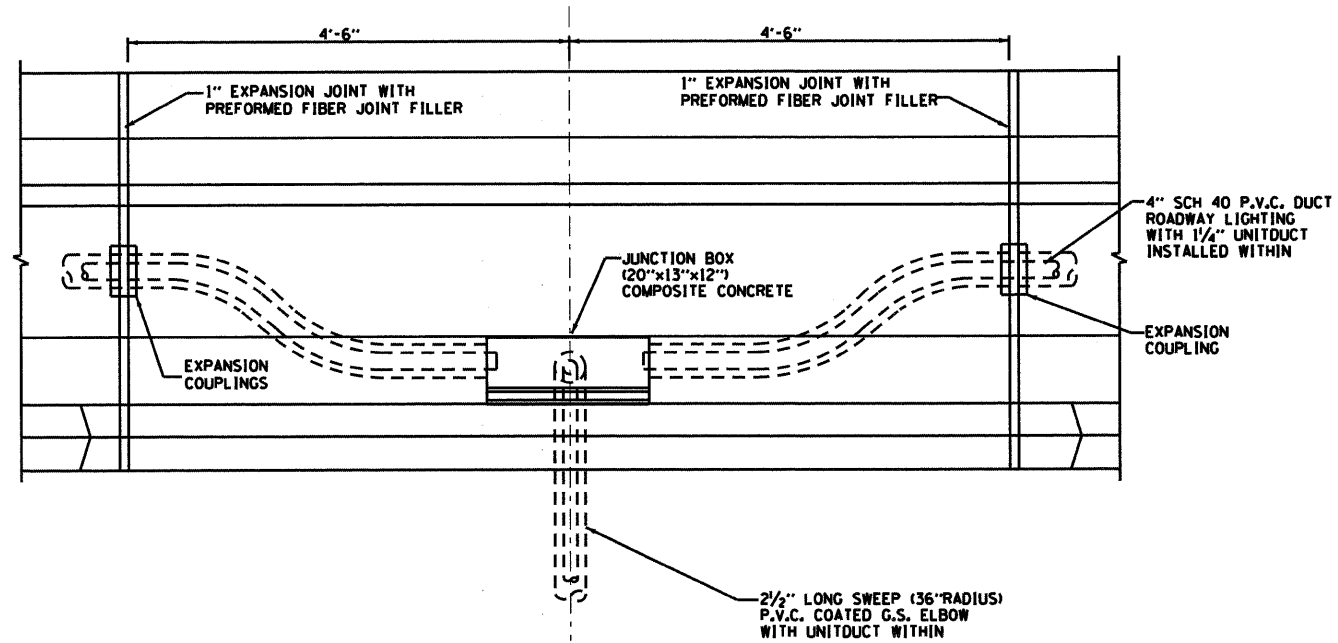
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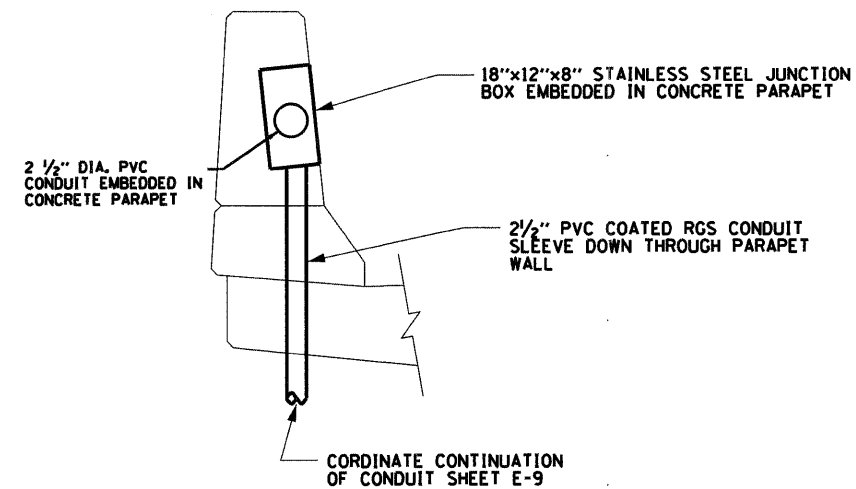
1 MEDIAN BARRIER - SIDE VIEW
NO SCALE



2 MEDIAN BARRIER - SECTION A-A
NO SCALE



3 MEDIAN BARRIER - PLAN VIEW
NO SCALE



4 BRIDGE PARAPET WALL
STA. 48+40 (SHEET E-9)
NO SCALE

FILE NAME = \$FILES\$
PLOT DATE = \$DATE\$

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

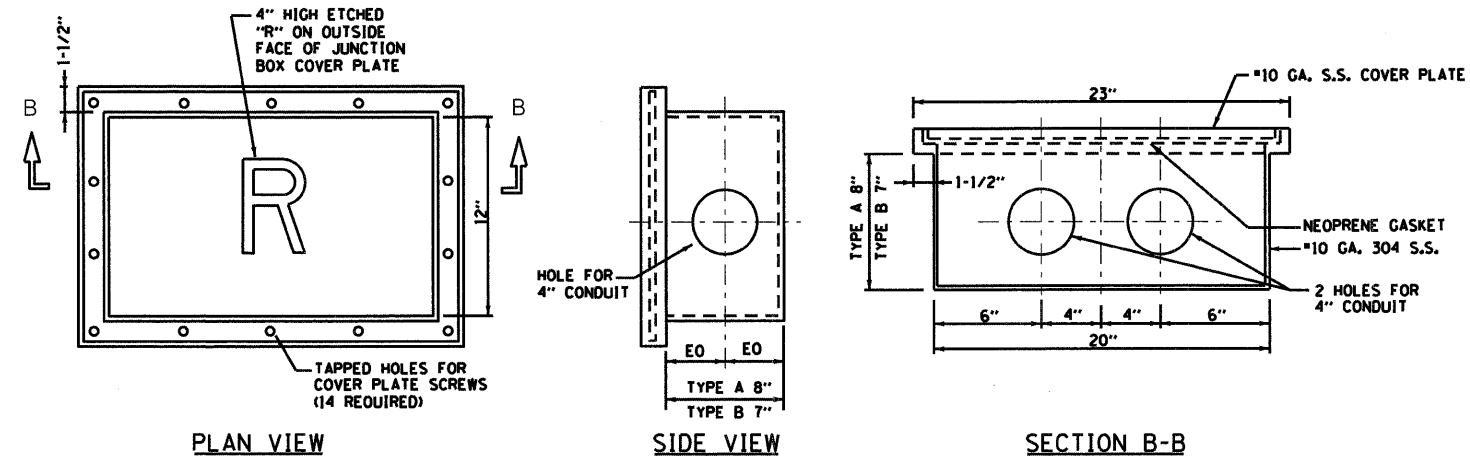
LIGHTING DETAILS
ELSTON AVENUE OVER I-94
SCALE: 1" = 20'
SHEET NO. 1 OF SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	61

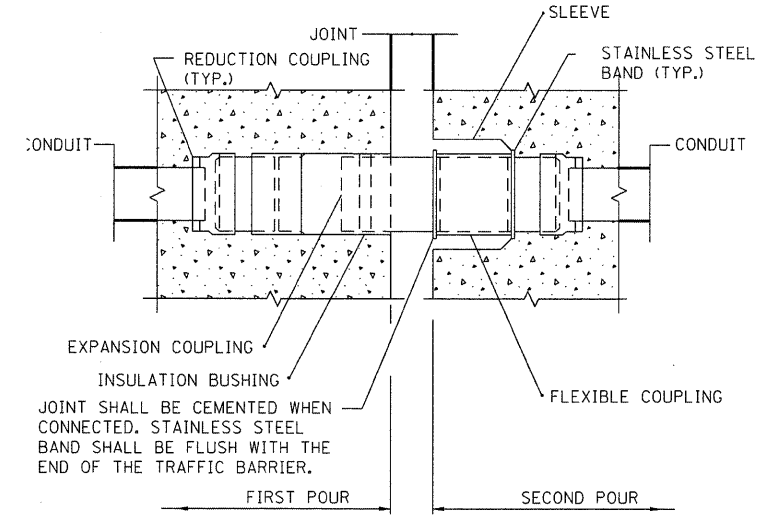
CONTRACT NO. 60C18
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT

\$PENTBLS\$

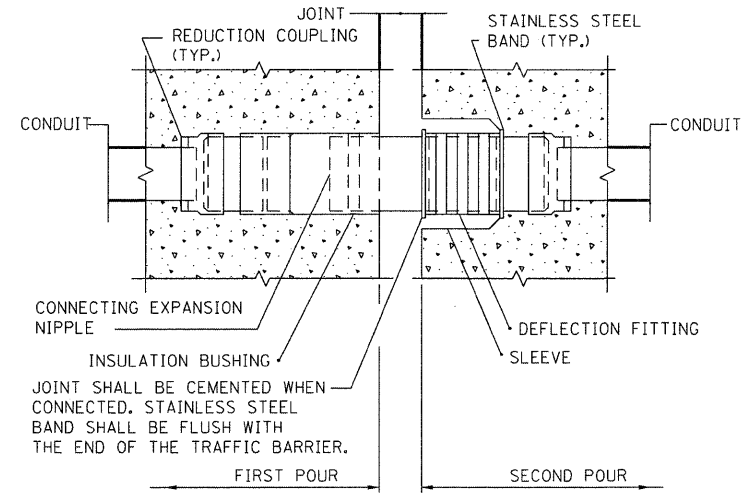
\$PLTDVYS\$



1 JUNCTION BOX DETAIL - TYPES A & B
NO SCALE



2 CONDUIT EXPANSION JOINT
NO SCALE

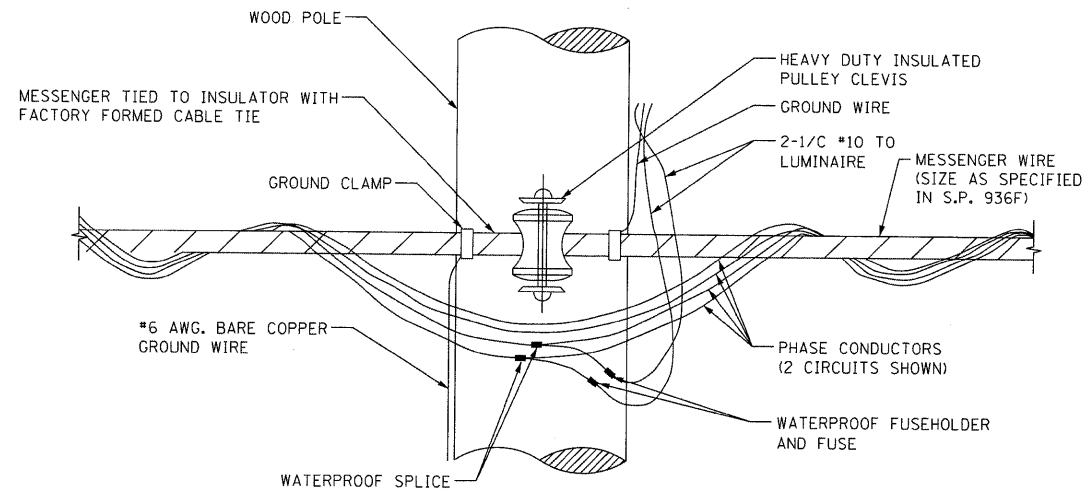


3 CONDUIT EXPANSION/DEFLECTION JOINT
NO SCALE

NOTES FOR CONDUIT EXP. & EXP./DEFL. JOINTS:

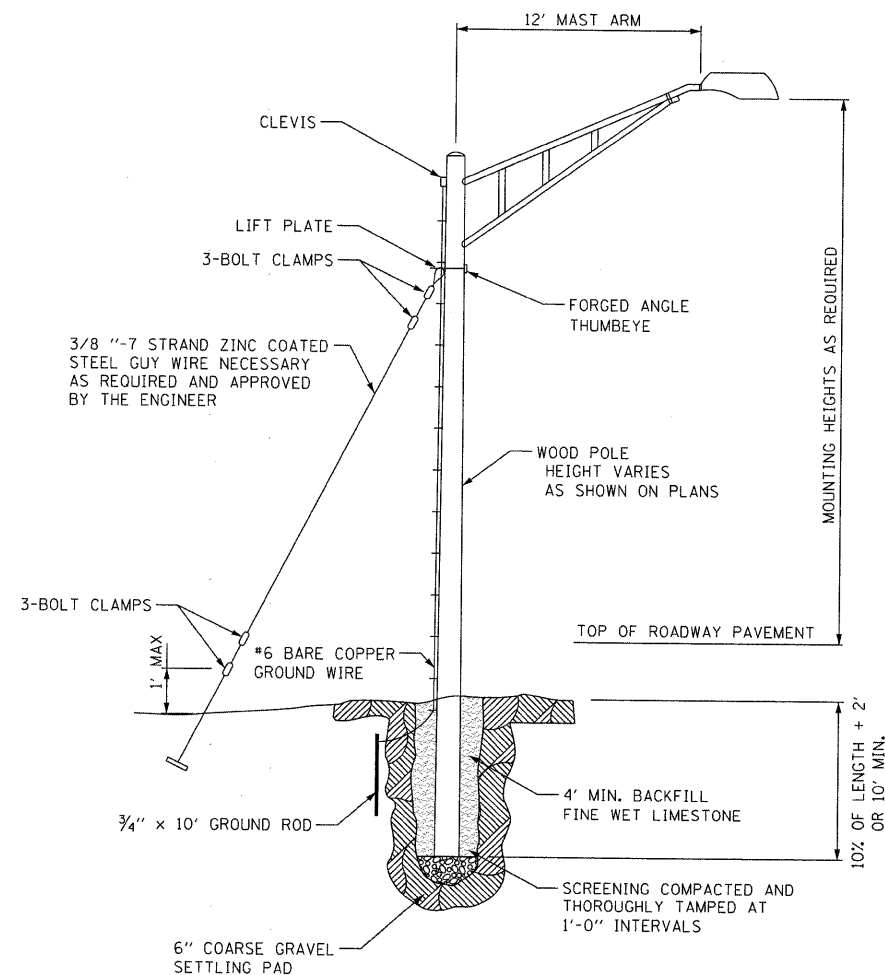
1. ALL MATERIALS (FITTING, COUPLINGS, CONDUIT, ETC.) INCLUDED WITH CONDUIT EMBEDDED IN STRUCTURE.
2. ALL COUPLINGS SHALL BE WATERTIGHT.
3. EXPANSION ASSEMBLY SHALL BE INSTALLED IN ALL EXPANSION JOINTS THAT ARE AT LEAST 1.75" AT 10°C, UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. EXPANSION COUPLINGS SHALL HAVE A TOTAL MINIMUM MOVEMENT OF 6" OR THE MOVEMENT CAPACITY OF THE STRUCTURAL JOINT, WHICHEVER IS GREATER. EXPANSION/DEFLECTION ASSEMBLY SHALL BE INSTALLED AS REQUIRED.
4. EXPANSION JOINT LOCATIONS WHEN INDICATED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER, EXPANSION/DEFLECTION COUPLINGS SHALL HAVE A TOTAL LONGITUDINAL MOVEMENT OF 4" OR THE MOVEMENT CAPACITY OF THE STRUCTURAL JOINT, WHICHEVER IS GREATER. THE ROTATIONAL CAPACITY OF THE DEFLECTION FITTING SHALL ALLOW FOR A MINIMUM MOVEMENT OF 1" IN THE TRANSVERSE DIRECTION.
5. EXPANSION AND EXPANSION/DEFLECTION COUPLING TYPES SHALL BE APPROVED BY THE ENGINEER.
6. REFER TO STRUCTURE PLANS FOR LOCATION & SIZE OF EXPANSION JOINTS.
7. REFER TO STRUCTURAL DRAWINGS FOR EACH EXPANSION JOINT LOCATION AND EACH EXPANSION JOINT WIDTH.
8. THE BARREL OF THE FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE OF ONE SIDE OF THE EXPANSION JOINT.
9. A CAVITY OPENING, IF REQUIRED, SHALL BE 3 IN. LARGER IN DIAMETER AND A MAXIMUM DEPTH OF HALF OF THE DEFLECTION SLEEVE LENGTH. THE DEFLECTION FITTING SHALL BE CENTERED IN THE OPENING AND EMBEDDED IN THE CONCRETE ONLY UP TO THE DEFLECTION FITTING CENTER.

FILE NAME = #FILES# PLOT DATE = #DATE#	SPAAN Tech, Inc. 311 S. Wacker Drive, Suite 2400 Chicago, Illinois 60606 phone: 312.277.8800 fax: 312.277.8808 web: www.SpaanTech.com	DESIGNED - I. A. B. DRAWN - R. B. G. CHECKED - A. D. O. DATE - MAY 2010	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS ELSTON AVENUE OVER I-94	F.A.J. - RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 62
						SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT CONTRACT NO. 60C18			

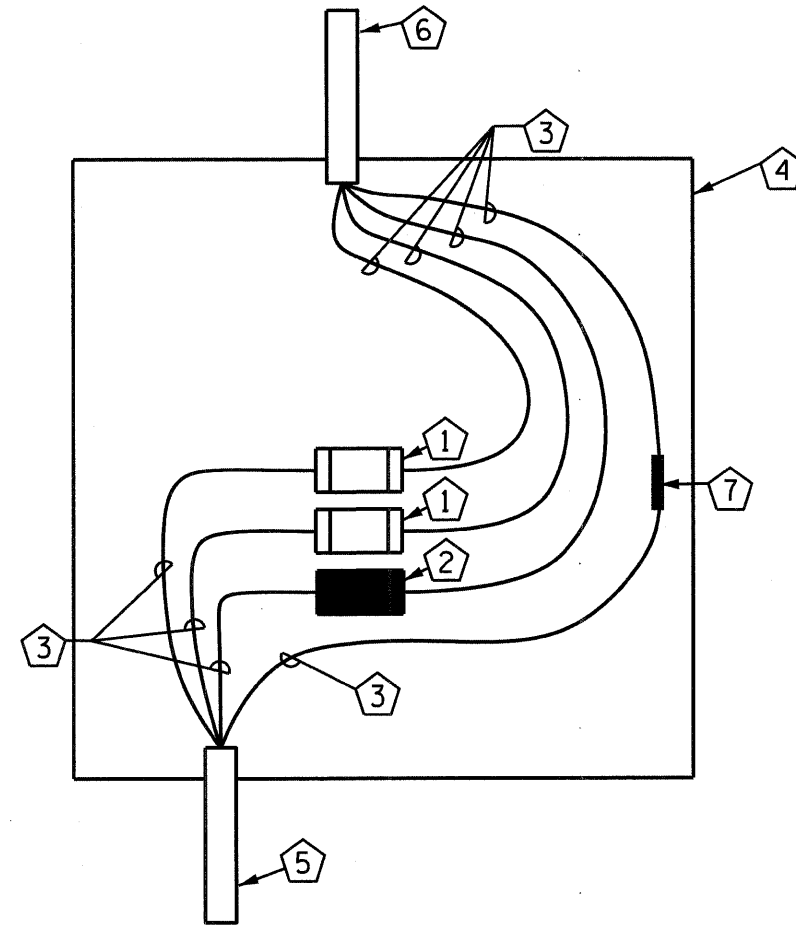


4 TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL
NO SCALE

2-1/2 #6 CONDUCTORS WITH STEEL MESSENGERS FOR GROUNDING CONDUCTOR
2-PHASE CONDUCTORS WITH WATER PROOF FUSE HOLDER AND FUSE PER CIRCUIT



5 TEMPORARY LIGHT POLE DETAIL
NO SCALE



6 JUNCTION BOX WIRING DETAIL
NO SCALE

JUNCTION BOX FUSES AND WIRING SHALL BE INCIDENTAL TO THE PRICE OF THE JUNCTION BOX

TAG NOTES

- ① QUICK DISCONNECT FUSE KIT WITH 15A FUSE
- ② QUICK DISCONNECT FUSE KIT WITH SOLID NEUTRAL ASSEMBLY
- ③ #10 COPPER, 600V
- ④ 16" x 14" x 6" NEMA 4X STAINLESS STEEL JUNCTION BOX
- ⑤ 2 1/2" PVC COATED RGS CONDUIT WITH 3/4" UNIT DUCT
- ⑥ 1" PVC COATED RGS CONDUIT
- ⑦ MECHANICAL SPLICE

FILE NAME = #FILES*
PLOT DATE = #DATE*

SPAAN Tech, Inc.
311 S. Wacker Drive, Suite 2400
Chicago, Illinois 60606
phone: 312.277.8800
fax: 312.277.8808
web: www.SpaanTech.com

DESIGNED	I. A. B.	REVISED	-
DRAWN	R. B. G.	REVISED	-
CHECKED	A. D. O.	REVISED	-
DATE	MAY 2010	REVISED	-

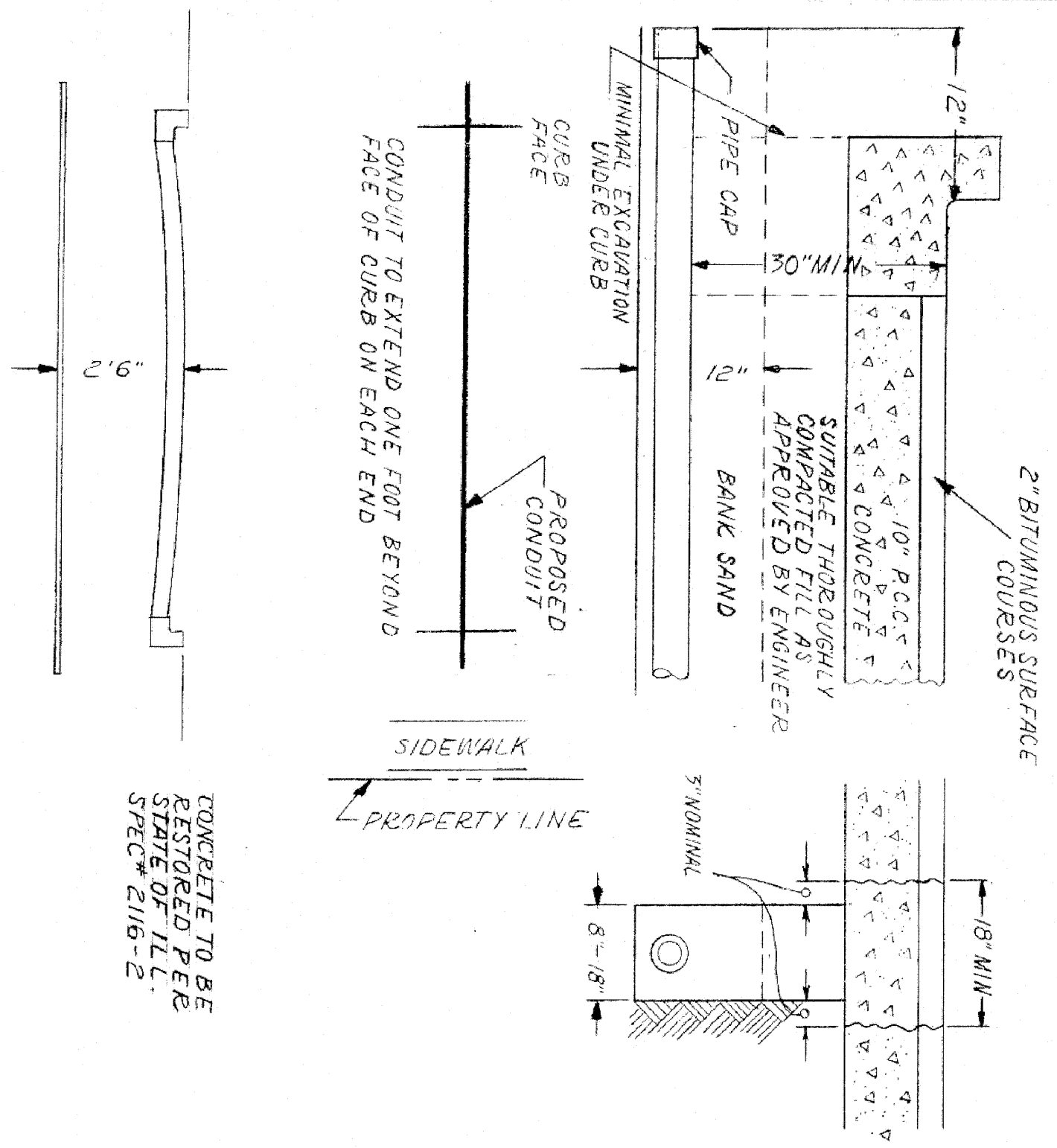
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS ELSTON AVENUE OVER I-94			
SCALE: 1" = 20'	SHEET NO.	OF	SHEETS
STA.	TO STA.		

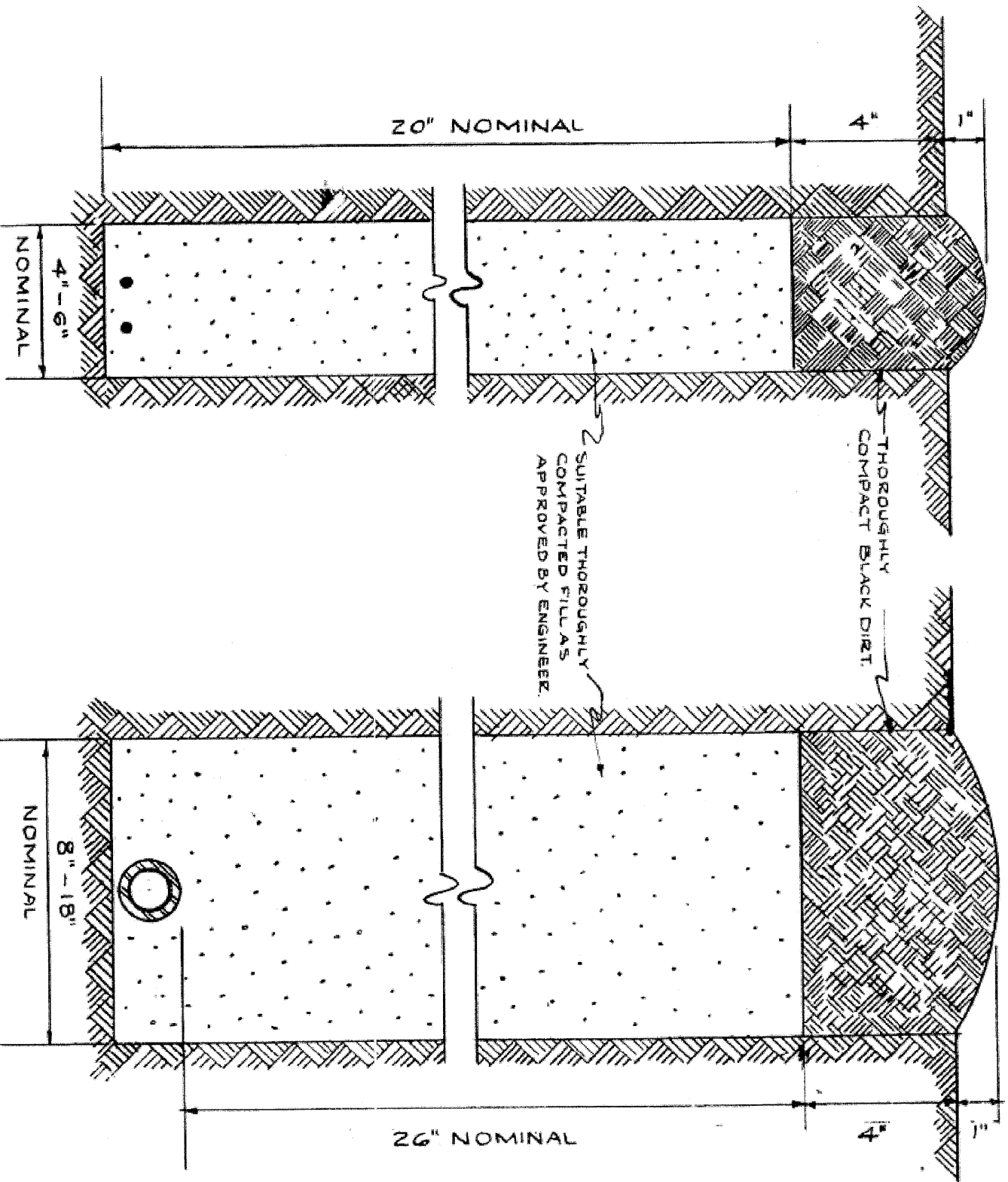
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	63
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				CONTRACT NO. 60C18

CONDUIT INSTALLATION UNDER PAVED STREET

TYPE III CURB & GUTTER TYPICAL



INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY	
CITY OF CHICAGO	
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAWN A.M. JOHNSON	CHECKED R. SYKOWSKI
ENGINEER OF ELECTRICITY <i>Thomas J. Kelly</i>	ENGINEER E.L. MARTIN
<i>Charles E. Burkhay</i>	DRG. NO. 813
8 1/2" X 14"	3-13-81



CABLE TRENCH

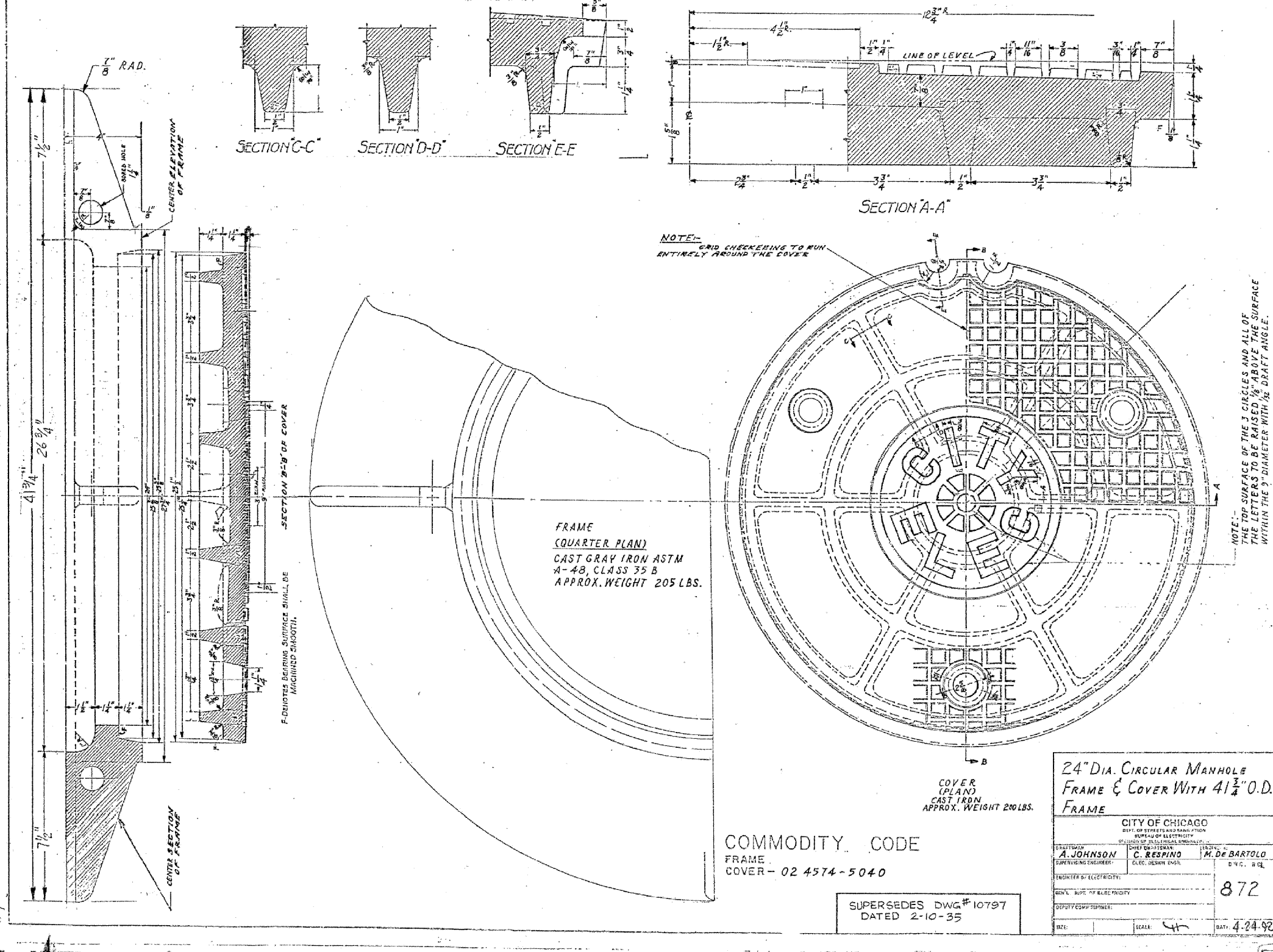
CONDUIT TRENCH

NOTE

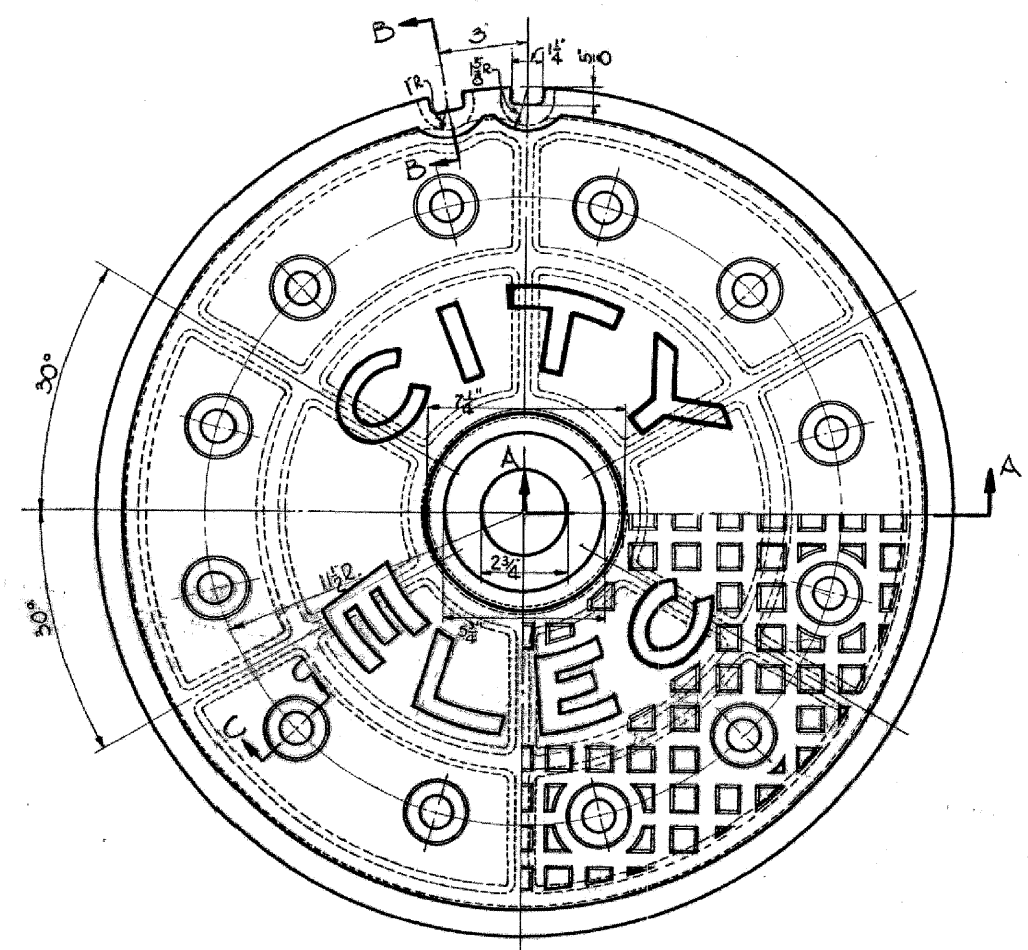
EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.
BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

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

REVISION	CITY OF CHICAGO		DEPT. OF STREETS & SANITATION
A	DIVISION OF ELECTRICAL ENGINEERING.		ENGINEER.
B	W. E. HARP	M. J. Lane	J. O'CONNOR.
C	ENGINE CHARGE	D. B. Stiles	DRG. NO.
D	SUPT. OF CONST.	W. H. Kelly	579
E	DEPT. OF CONST.	W. H. Kelly	
F	DEPT. OF CONST.	W. H. Kelly	
G	SIZE 8 1/2" X 14"	SCALE: N	DATE: 7-14-01
H			



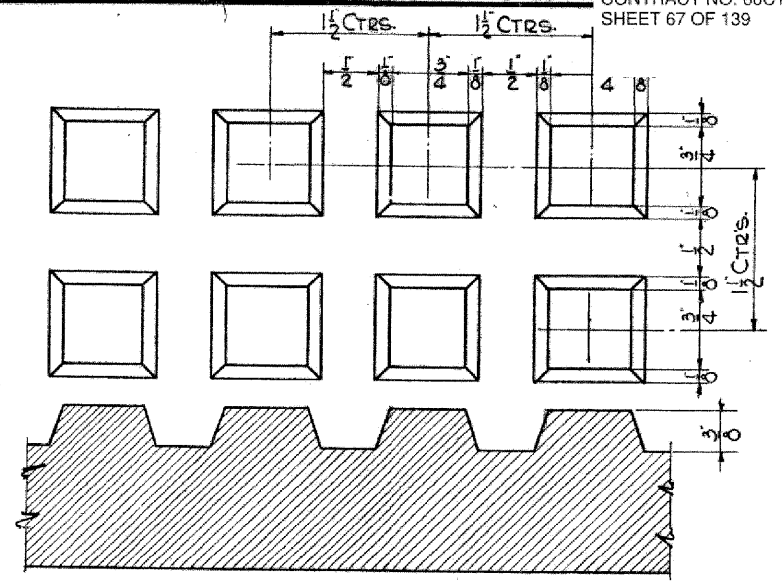
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	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 1:20	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60C18				
	PLOT DATE = #DATE#	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									



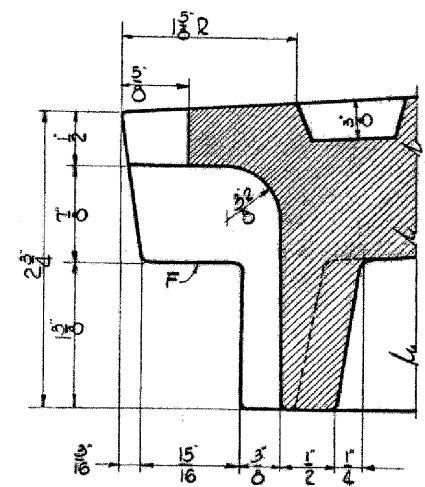
PLAN

MATERIAL - CAST IRON
ESTIMATED WEIGHT 315 LB.

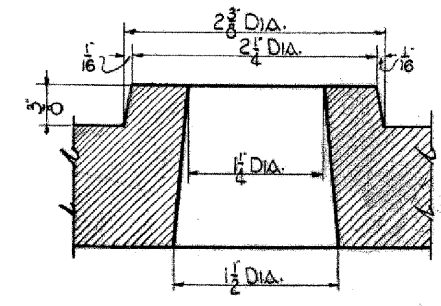
F- DENOTES BEARING SURFACE SHALL BE MACHINED SMOOTH.



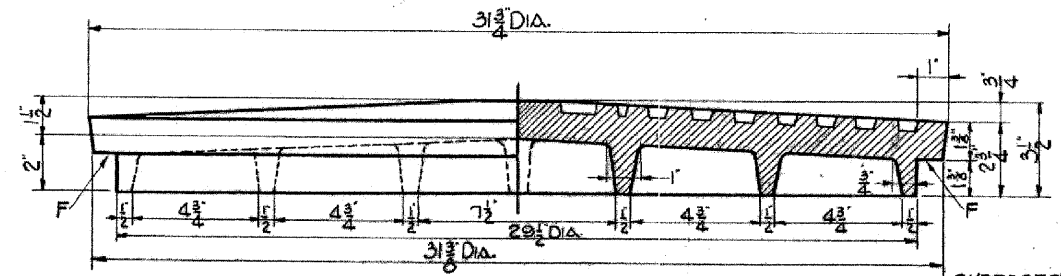
DETAIL OF CORRUGATIONS



SECTION B-B



SECTION C-C

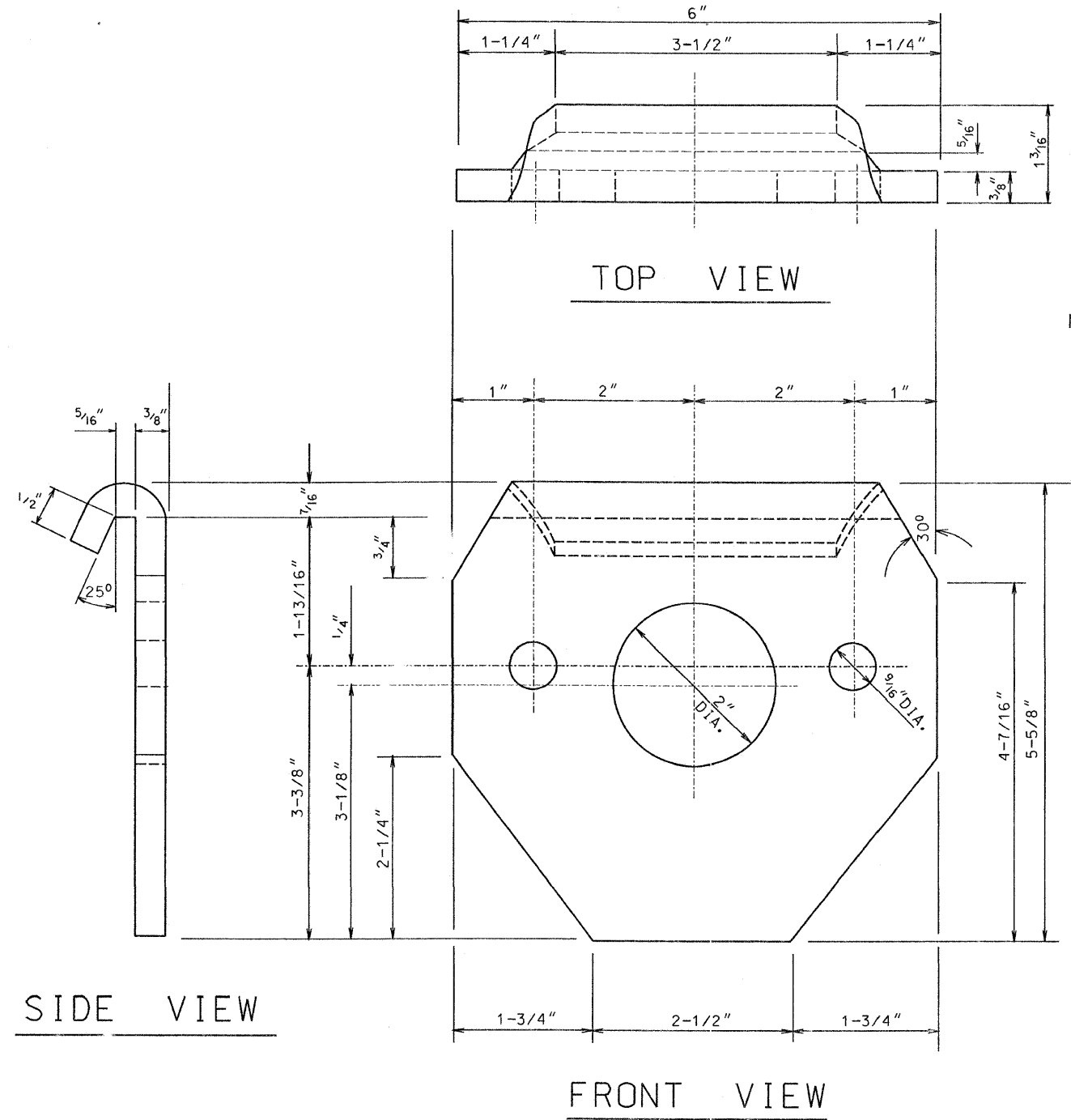


HALF ELEVATION

HALF SECTION A-A

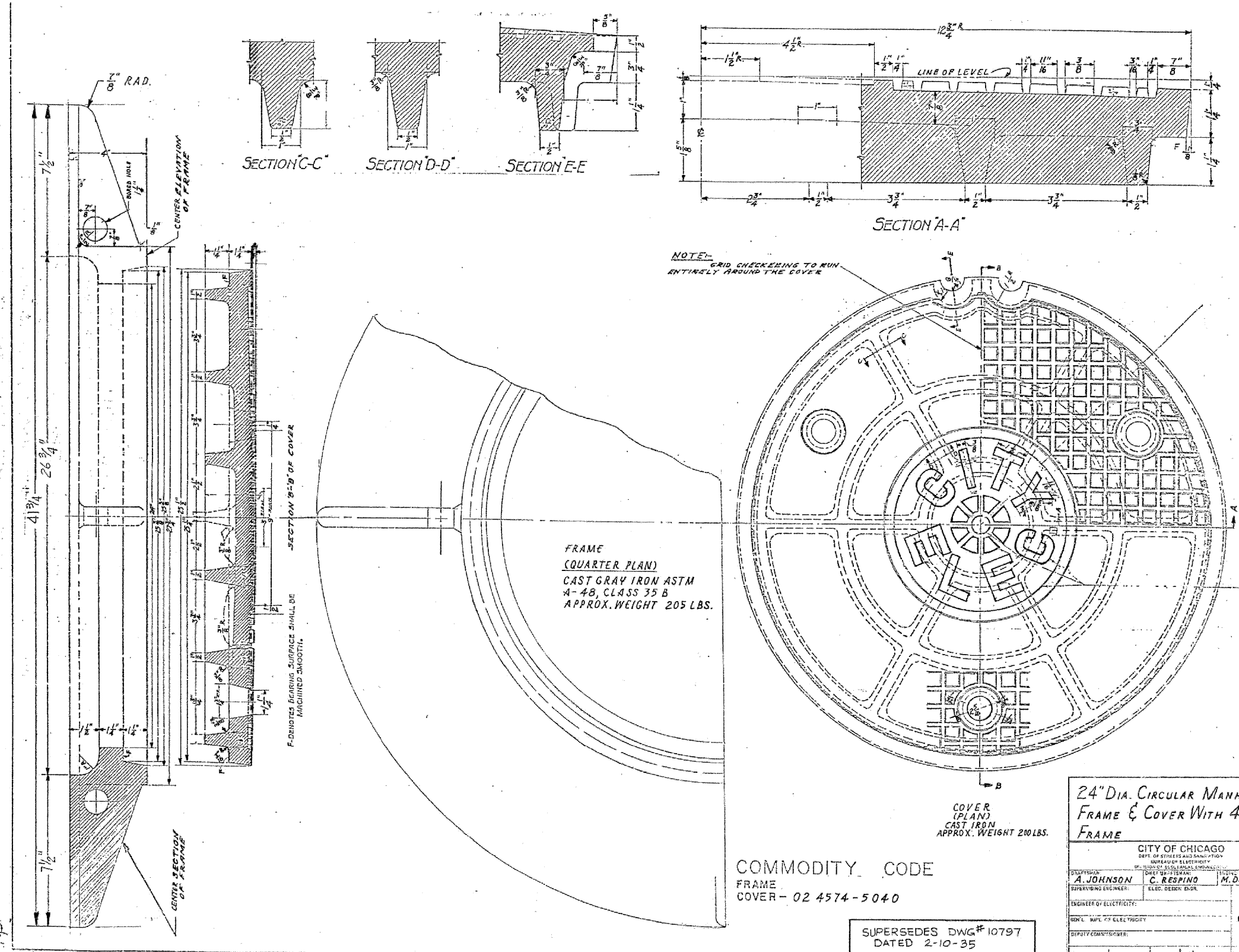
SUPERSEDES DRG. 7223-DATED 6-29-18
COMMODITY CODE
02-4574-5630

C	WEIGHT REVISED
B	WEIGHT REVISED
A	IDENTIFICATION LETTERS ON COVER CHANGED
30" CIRCULAR STREET MANHOLE COVER	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING	
REVISOR	DATE
A	12-7-53
B	9-7-79
C	8-9-85
DESIGNED BY	W. ZOLESKI
CHECKED BY	W. J. JACKSON
NO.	10927
SCALE	16" x 21"
DATE	4-5-34



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

03-01-02	REDRAWN
TWO BOLT MAST ARM ATTACHMENT (BRACKET DETAILS)	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN: ROBERT IVY	CHIEF DRAFTSMAN: ROBERT CARTER
SUPERVISING ENGINEER:	ENGINEER: RON POOL
ENGINEER OF ELECTRICITY:	DWG. NO.
GEN'L SUPT. OF ELECTRICITY:	724
DEPUTY COMMISSIONER:	DATE: 03-01-73
SIZE:	SCALE: NONE



FRAME
(QUARTER PLAN)
CAST GRAY IRON ASTM
A-48, CLASS 35 B
APPROX. WEIGHT 205 LBS.

COVER
(PLAN)
CAST IRON
APPROX. WEIGHT 200 LBS.

COMMODITY CODE
FRAME
COVER - 02 4574-5040

SUPERSEDES DWG# 10797
DATED 2-10-35

24" DIA. CIRCULAR MANHOLE FRAME & COVER WITH 41 3/4" O.D. FRAME		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DIVISION A. JOHNSON SUPERVISING ENGINEER	DISTRICT SUPERVISOR C. RESPINO ELEC. DESIGN ENGR.	SECTION M. DE BARTOLO D'Y. C. B. CL.
ENGINEER OF ELECTRICITY:		872
SEN'L. SAFL. BY ELEC. CITY:		
DEPUTY COMMISSIONER:		
SITE:	SCALE: 1/4"	DATE: 4-24-92

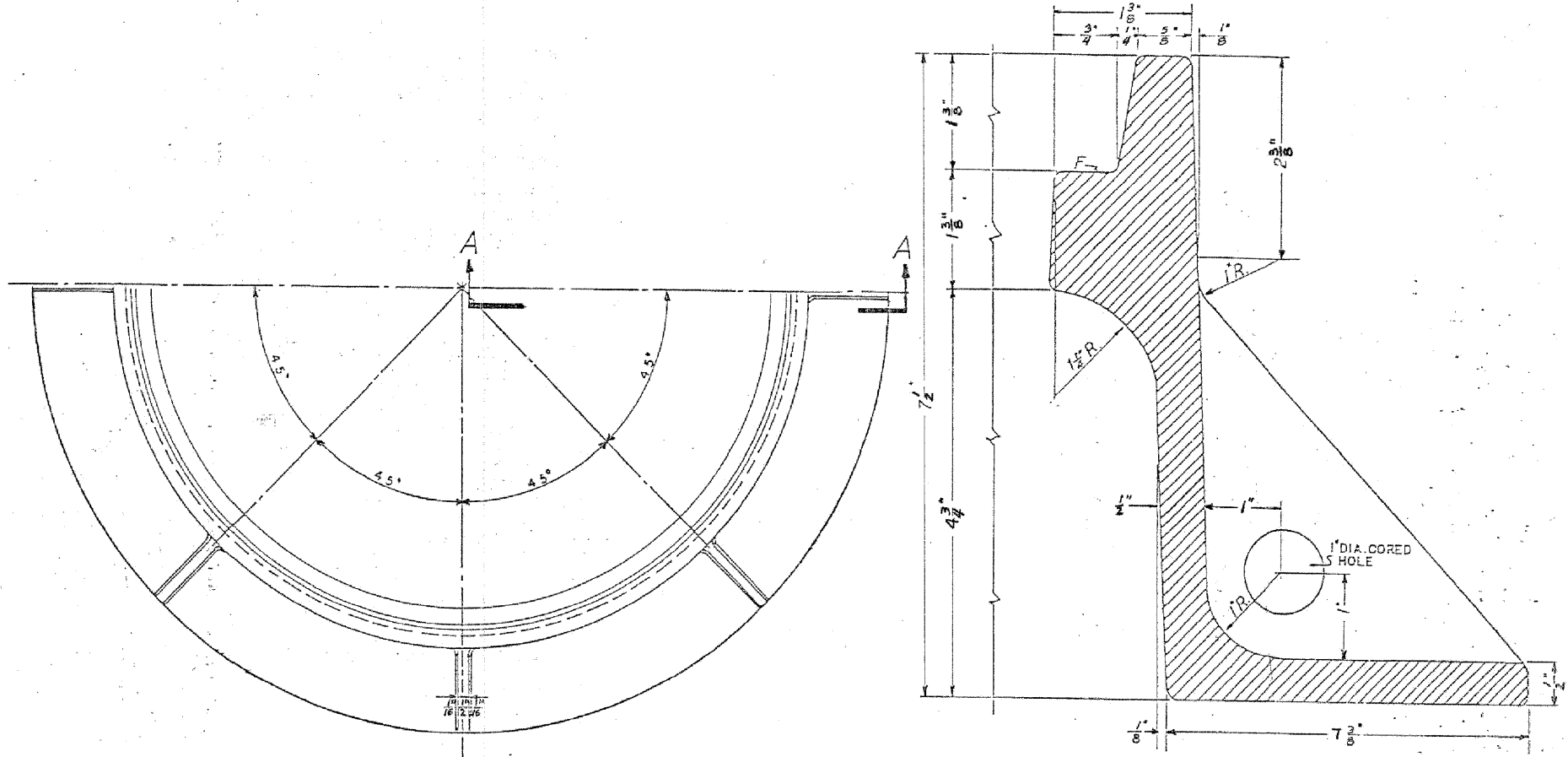
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#FILE#		DRAWN -	REVISED -
	PLOT SCALE = #SCALE#	CHECKED -	REVISED -
	PLOT DATE = #DATE#	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: 1:20 SHEET NO. OF SHEETS STA. TO STA.

F.A.T. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.BB	COOK	139	69
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				

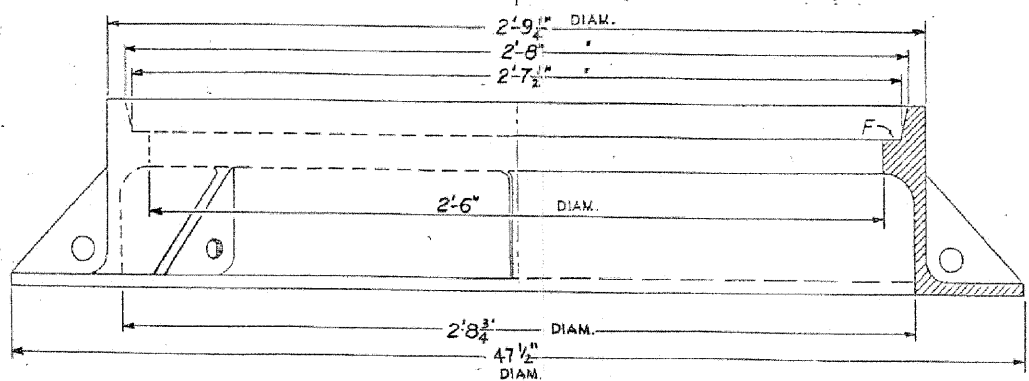


HALF PLAN

MATERIAL - CAST IRON
ESTIMATED WEIGHT APP. 250 LB.

F - DENOTES BEARING SURFACE SHALL BE MACHINED SMOOTH.

TYPICAL SECTION THRU FRAME



HALF ELEVATION

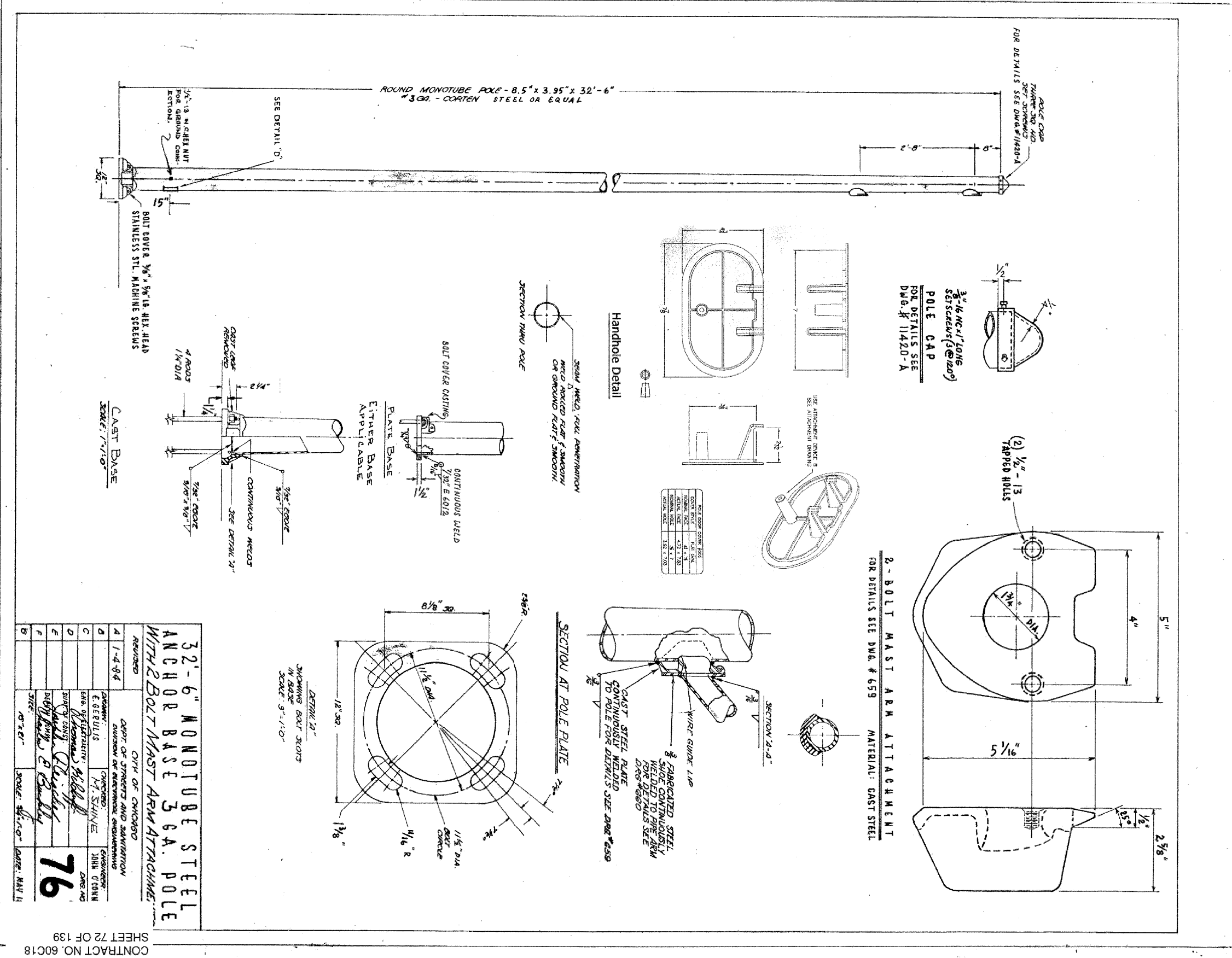
HALF SECTION A-A

COMMODITY CODE
NO.

REVISED		30" CIRCULAR STREET MANHOLE FRAME	
REDESIGN	A	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICAL ENGINEERING DIVISION OF ELECTRICAL ENGINEERING	
CHECKED	E	DESIGNED BY	ENGINEER
REVISED	F	Wesley R. Szykowski	H. SHINE
O.D. OF FRAME INCREASED TO 41"	G	C 15-5-92	DRG. NO.
		Checked by	874
		Charles E. Conklin	SEVEN DOLL
		1E&21	SCALE: 3/8"=1'-0" DATE: 5-5-'92

SUPERSEDES DRG. # 10926
DATED 4-6-35

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS	F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 70
SCALE: 1:20					SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				



32'-6" MONOTUBE STEEL ANCHOR BASE 3 GA. POLE WITH 2 BOLT MAST ARM ATTACHMENT

DESIGNED	BY	DATE
DRAWN	BY	DATE
CHECKED	BY	DATE
APPROVED	BY	DATE

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

ENGINEER: JOHN O'DWY
DATE: 11/10/01

76

CONTRACT NO. 60C18
SHEET 72 OF 139

FILE NAME = #FILE#
USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

DESIGNED	REVIS
DRAWN	REVIS
CHECKED	REVIS
DATE	REVIS

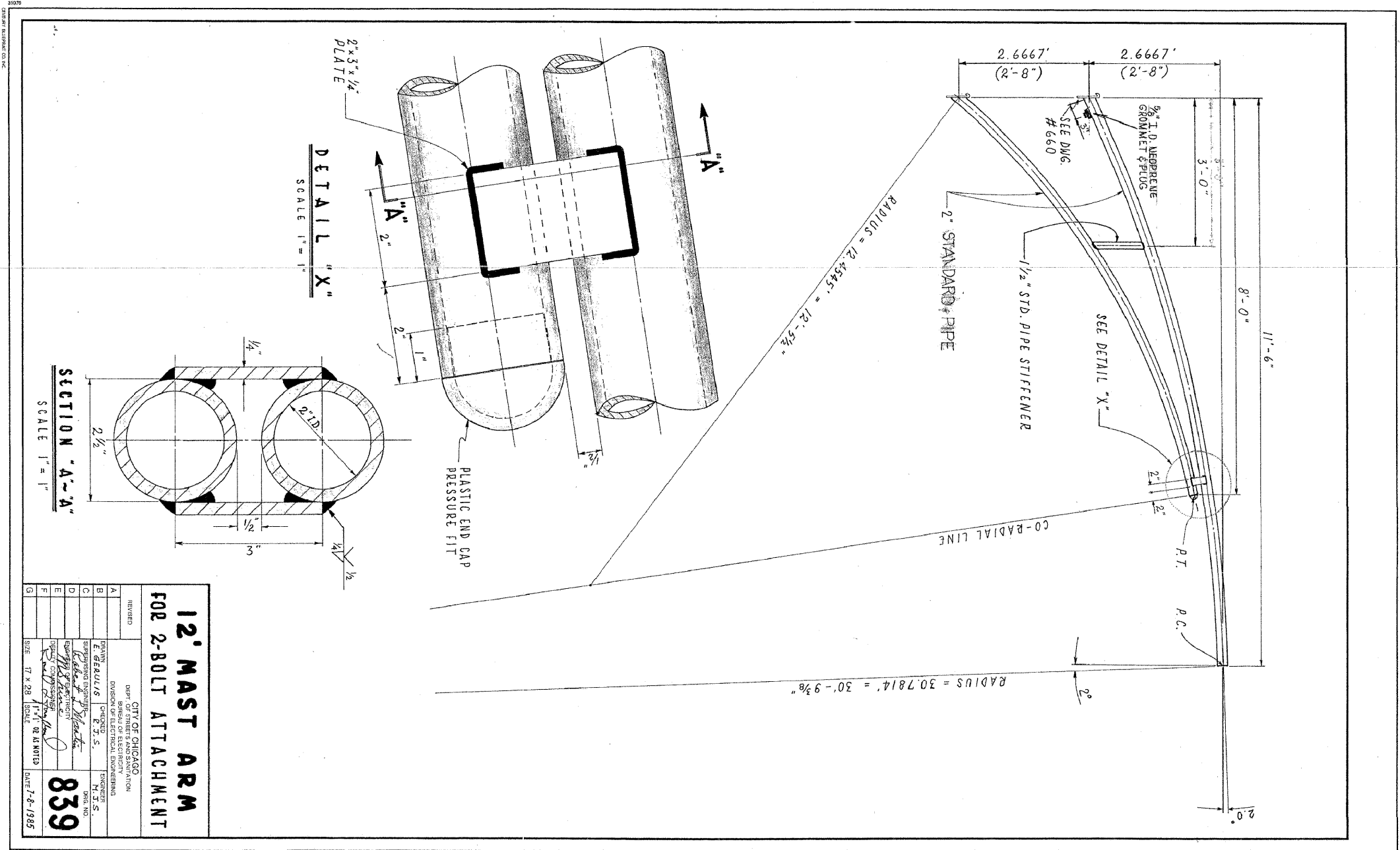
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: 1:20 SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	72
CONTRACT NO. 60C18				

ILLINOIS FED. AID PROJECT



12' MAST ARM FOR 2-BOLT ATTACHMENT	
CITY OF CHICAGO DIVISION OF ELECTRICAL ENGINEERING	ENGINEER IN CHARGE DIVISION OF ELECTRICAL ENGINEERING E. J. S.
DRAWN BY R. J. S.	CHECKED BY R. J. S.
DESIGNED BY R. J. S.	IN CHARGE R. J. S.
DATE 7-8-1985	SHEET NO. 839
SIZE 11" x 28"	SCALE 1" = 1'-0"

CONTRACT NO. 60C18
SHEET 73 OF 139

FILE NAME =
#FILE#

USER NAME = #USER#
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

DESIGNED -
DRAWN -
CHECKED -
DATE -

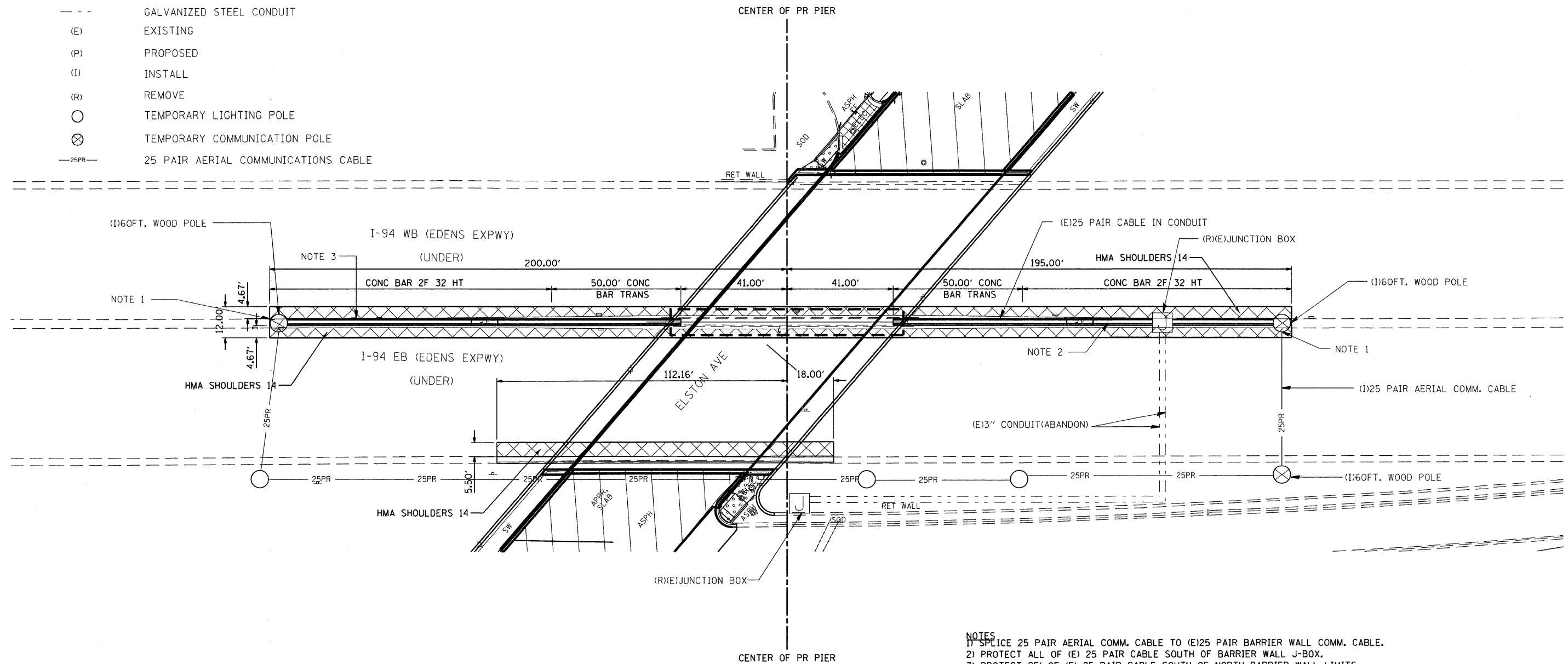
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
SCALE: 1:20 SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	73
CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT				

SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE
	TEMPORARY LIGHTING POLE
	TEMPORARY COMMUNICATION POLE
—25PR—	25 PAIR AERIAL COMMUNICATIONS CABLE



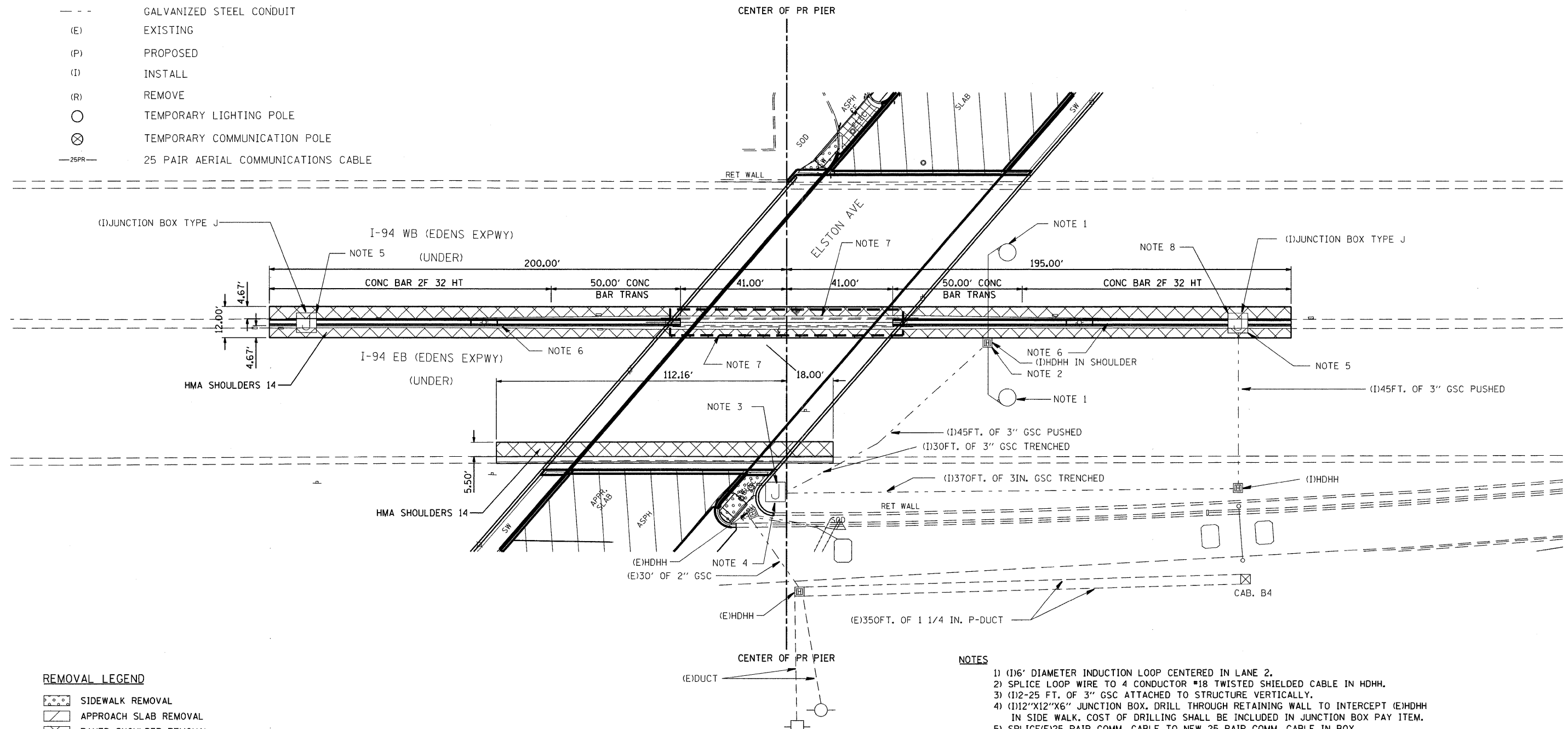
- NOTES**
- 1) SPLICE 25 PAIR AERIAL COMM. CABLE TO (E)25 PAIR BARRIER WALL COMM. CABLE.
 - 2) PROTECT ALL OF (E) 25 PAIR CABLE SOUTH OF BARRIER WALL J-BOX.
 - 3) PROTECT 25' OF (E) 25 PAIR CABLE SOUTH OF NORTH BARRIER WALL LIMITS.
 - 4) REMOVE COMMUNICATION POLES WHEN READY TO POUR BARRIER WALL COMMUNICATIONS SHALL NOT BE OUT FOR MORE THAN 72 HRS.

REMOVAL LEGEND

	SIDEWALK REMOVAL
	APPROACH SLAB REMOVAL
	PAVED SHOULDER REMOVAL
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL

FILE NAME *	USER NAME = mezeg	DESIGNED -	REVISED -	TSC STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN - I-94 TEMPORARY COMMUNICATIONS-TRAFFIC SYSTEMS CENTER			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C:\Projects\TSC\EDENS\DI60C18-shst-plan	94.dgn	DRAWN -	REVISED -		94	O101.BB	COOK	139	74			
PLOT SCALE = 2,0000' / IN.		CHECKED -	REVISED -		CONTRACT NO. 60C18							
PLOT DATE = 6/22/2018		DATE -	REVISED -		SCALE: 1:20	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

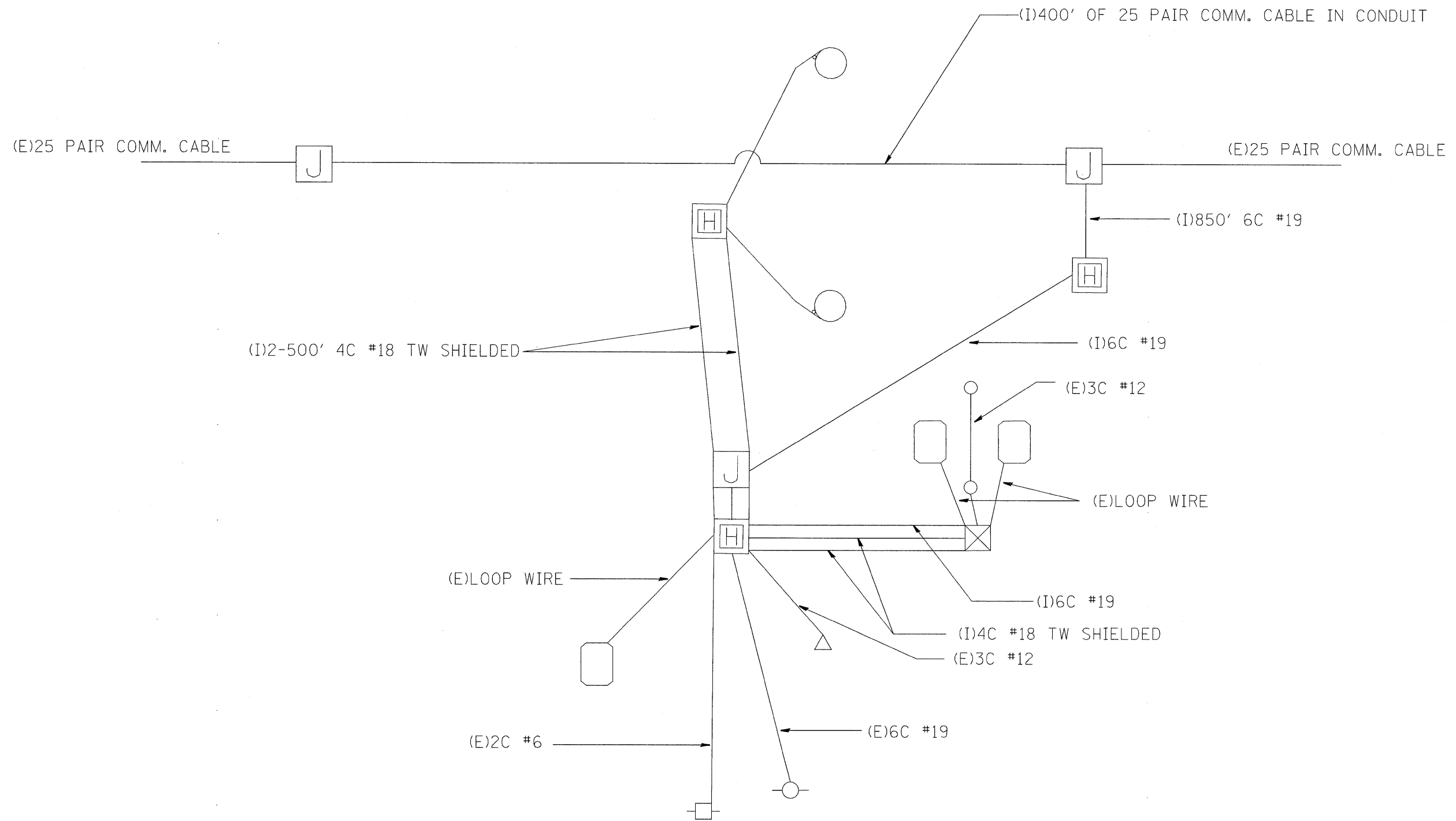
SYMBOL	LEGEND
	INDUCTION LOOP
	ROUND INDUCTION LOOP
	TSC CABINET
	TELEPHONE SERVICE
	SERVICE INSTALLATION
	JUNCTION BOX
	HEAVY DUTY HAND HOLE
	POLYETHYLENE DUCT
	GALVANIZED STEEL CONDUIT
(E)	EXISTING
(P)	PROPOSED
(I)	INSTALL
(R)	REMOVE
	TEMPORARY LIGHTING POLE
	TEMPORARY COMMUNICATION POLE
—25PR—	25 PAIR AERIAL COMMUNICATIONS CABLE



REMOVAL LEGEND	
	SIDEWALK REMOVAL
	APPROACH SLAB REMOVAL
	PAVED SHOULDER REMOVAL
	PAVEMENT REMOVAL
	DRIVEWAY PAVEMENT REMOVAL

- NOTES**
- (I) 6" DIAMETER INDUCTION LOOP CENTERED IN LANE 2.
 - SPLICE LOOP WIRE TO 4 CONDUCTOR #18 TWISTED SHIELDED CABLE IN HDHH.
 - (I) 2-25 FT. OF 3" GSC ATTACHED TO STRUCTURE VERTICALLY.
 - (I) 12"X12"X6" JUNCTION BOX. DRILL THROUGH RETAINING WALL TO INTERCEPT (E)HDHH IN SIDE WALK. COST OF DRILLING SHALL BE INCLUDED IN JUNCTION BOX PAY ITEM.
 - SPLICE (E) 25 PAIR COMM. CABLE TO NEW 25 PAIR COMM. CABLE IN BOX.
 - (I) 4" PVC EMBEDDED IN CONCRETE BASE OF BARRIER WALL.
 - (I) 4" PVC EMBEDDED IN BASE OF CONCRETE PIER.
 - SPLICE 6C #19 TO APPROPRIATE PAIR OF 25 PAIR COMM. CABLE PROVIDED BY TSC ENGINEER (708)524-2145.

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	TSC STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN - I-94 PERMANENT TRAFFIC SURVEILLANCE ELSTON AVE. OVER EDENS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C:\Projects\TSC\EDENS\0160C18-sht-plan	94.dgn	DRAWN -	REVISED -			94	0101.BB	COOK	139	75
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PLOT DATE = 6/22/2010	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				



WIRING DIAGRAM

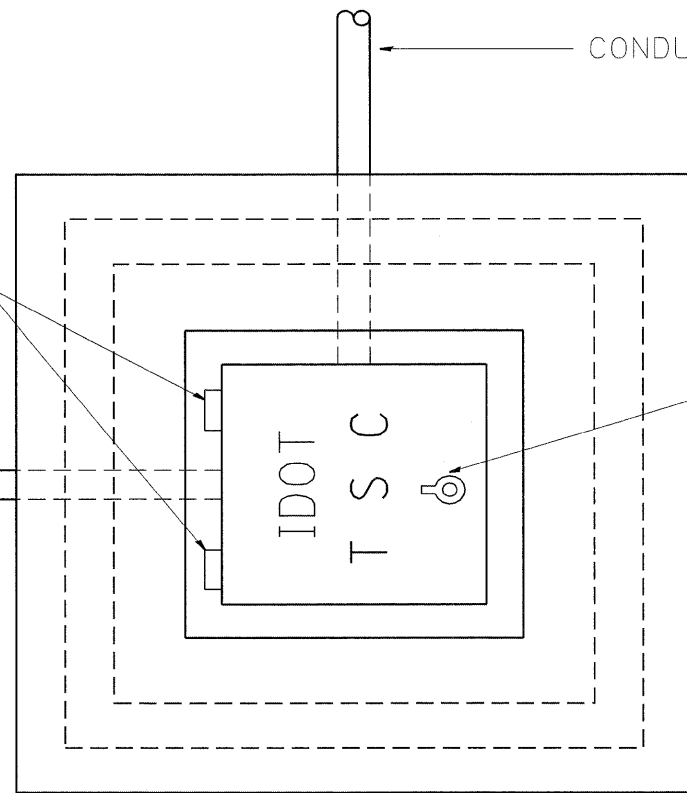
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C:\Projects\TSC\EDENS\DI60C18-shr-plan	94.dgn	DRAWN -	REVISED -		PERMANENT TRAFFIC SURVEILLANCE		94	0101.8B	COOK	139	76
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	PLOT DATE = 6/22/2018	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

TYPE "T" HINGES REQUIRED ONLY ON
ON HEAVY DUTY SPECIAL.

CONDUIT TYP.

CONDUIT TYP.

TYPE "G" HANDLE FOR BOTH HDHH AND HDHH SPECIAL



PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

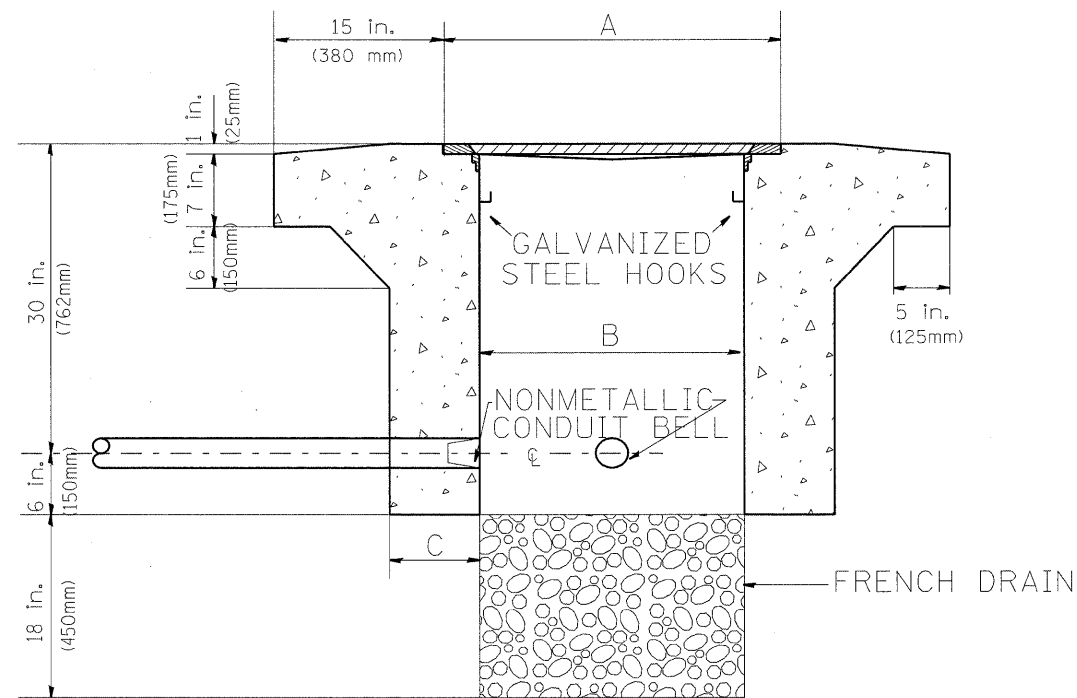
A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30" (762 mm)
C	10" (250 mm)

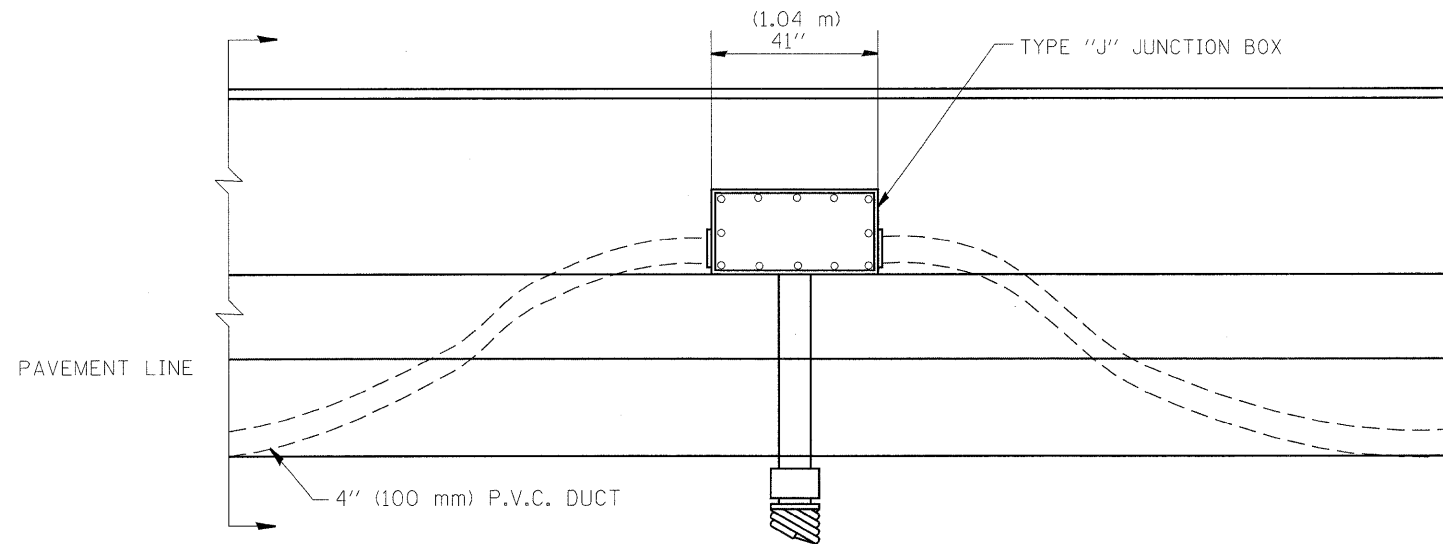
(FRAME AND COVER 405 LBS. (184 Kg. (405))



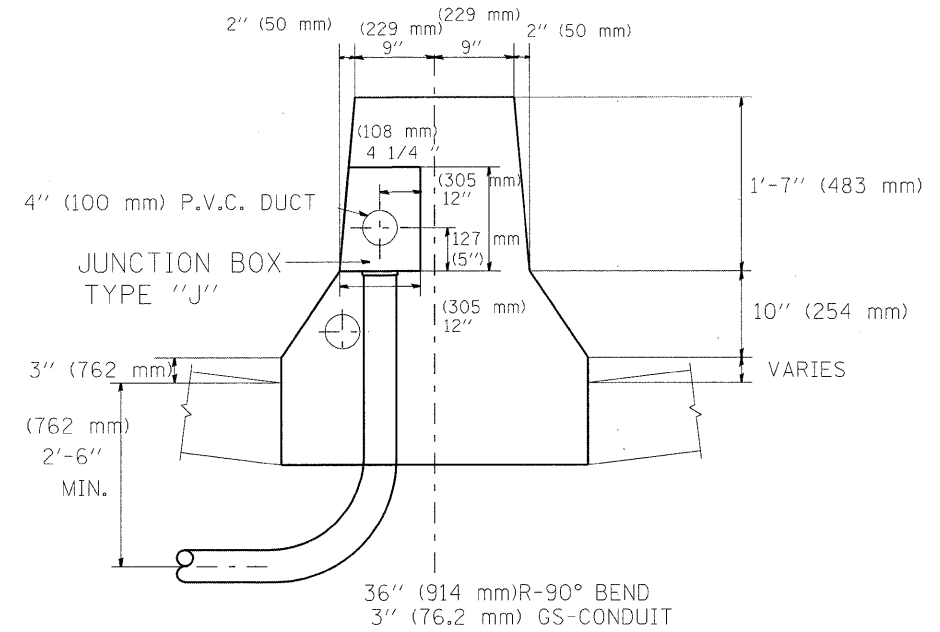
ELEVATION

PC CONCRETE - HEAVY DUTY HAND HOLE

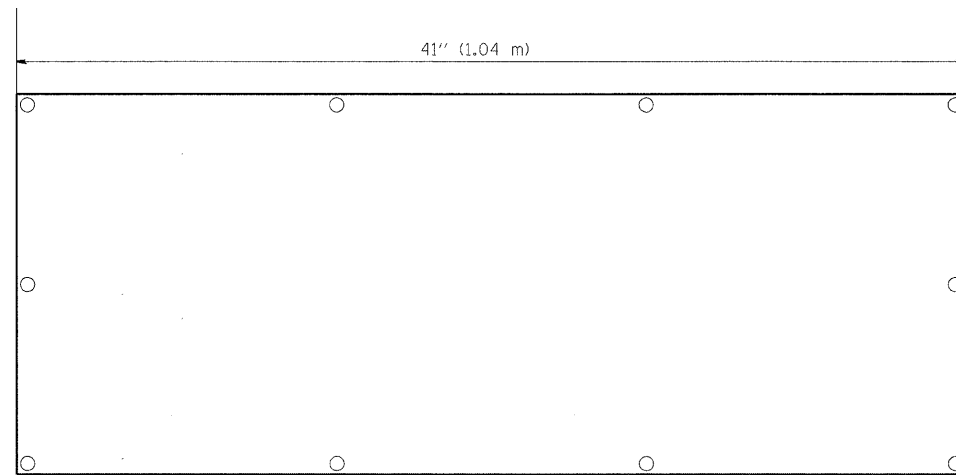
FILE NAME = C:\Projects\TSC\TYPICALS\TSC\TYP08.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 04/97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	PC CONCRETE - HEAVY DUTY HAND HOLE		F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 76A	
PLOT SCALE = 100.0000' / IN.	CHECKED - R.L.	DATE - 09/11/96	REVISED -		SCALE: NONE	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60C18			
PLOT DATE = 6/29/2010	DATE - 09/11/96	REVISED -	REVISED -		TRAFFIC SYSTEMS CENTER (TY-1TSC-400#15)							



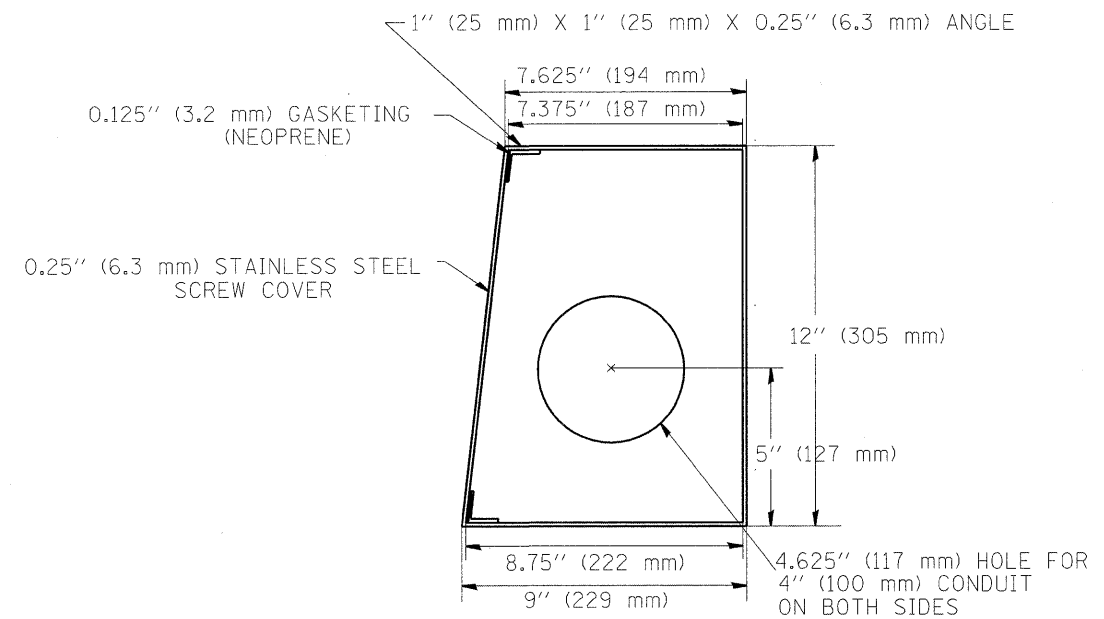
ELEVATION
BARRIER WALL DUCT DETAIL



DOUBLE FACED BARRIER WALL



FRONT VIEW



SIDE VIEW
JUNCTION BOX TYPE "J"

ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF
BOX AND COVER SHALL BE 0.25" (6.4 mm) TYPE 316 STAINLESS STEEL

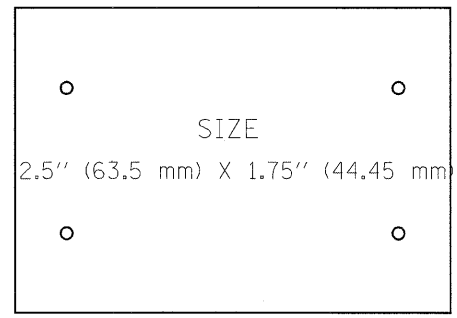
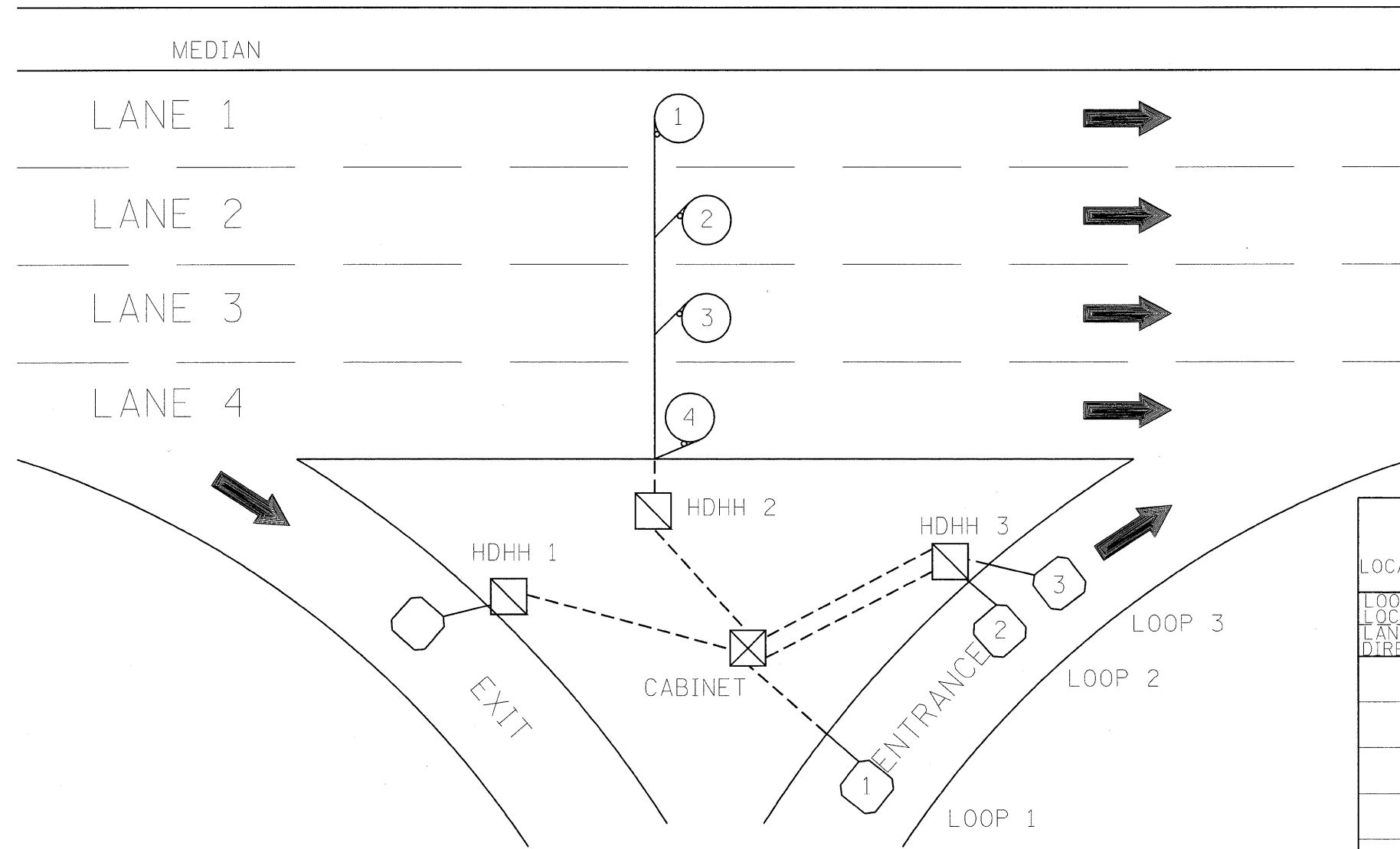
BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15' (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4" (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

FILE NAME = C:\Projects\TSC\TYPICALS\TSC\TYP08.dgn	USER NAME = mezag	DESIGNED - J.G.	REVISED -
		DRAWN - G.M.	REVISED -
		CHECKED - J.G.	REVISED -
		DATE - 04-19-05	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
TRAFFIC SYSTEMS CENTER

JUNCTION BOX "TYPE J" IN DOUBLE FACED BARRIER WALL			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 76B
CONTRACT NO. 60C18				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SUGGESTED TAG
PANDUIT
#MP250W175-C
OR EQUIVALENT

LOOP ANALYZER					
LOCATION _____			DATE _____		
LOOP LOCATION LANE DIRECTION	LOOP WIRE MARKED AND CODED	LOOP SIZE	FREQ. INDUCTANCE	INSULATION	LOOP RESISTANCE

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET # ____

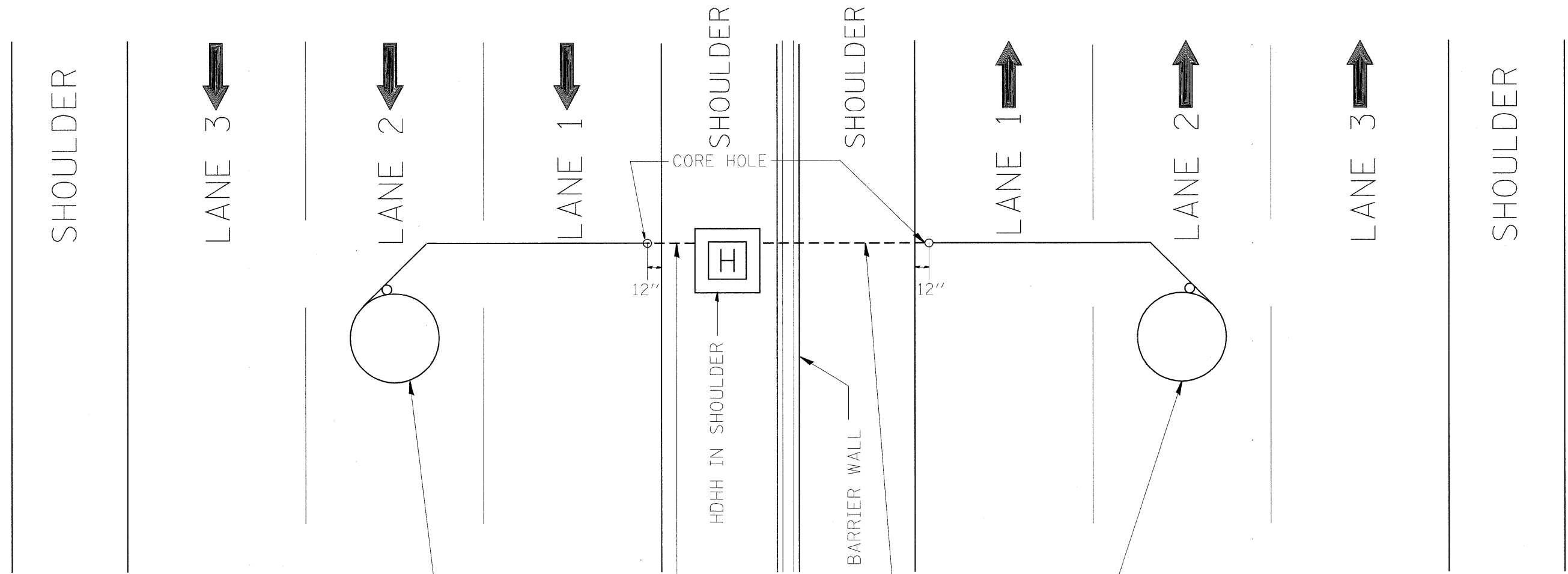
HDHH 2 EXAMPLE

IB (OB) LANE # ____
CCW /OUT
TO CABINET # ____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:
EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

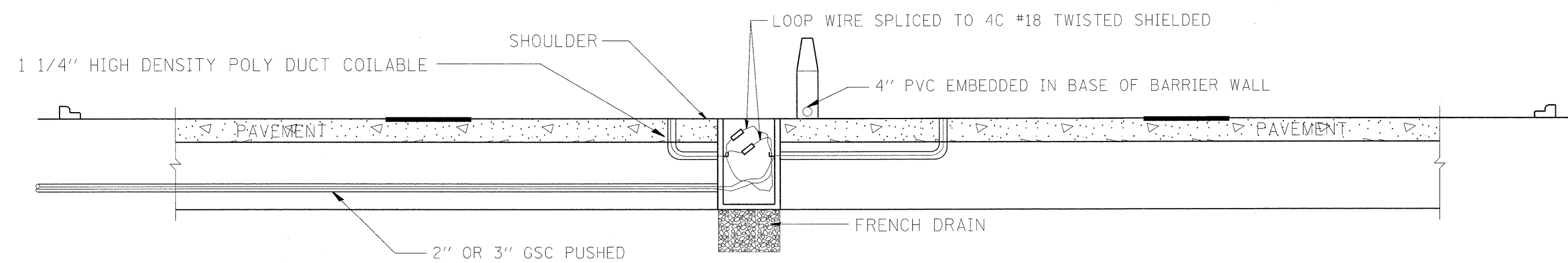


6' DIAM. INDUCTION LOOP CENTERED IN LANE 2

6' DIAM. INDUCTION LOOP CENTERED IN LANE 2

1 1/4" (30mm) OR 2" (50.0 mm) HDP TRENCHED

1 1/4" (30mm) OR 2" (50.0 mm) HDP TRENCHED



1 1/4" HIGH DENSITY POLY DUCT COILABLE

LOOP WIRE SPLICED TO 4C #18 TWISTED SHIELDED

4" PVC EMBEDDED IN BASE OF BARRIER WALL

FRENCH DRAIN

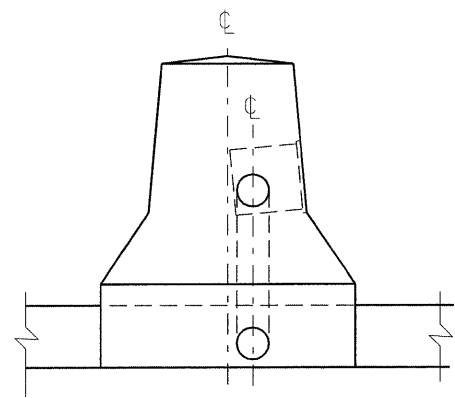
2" OR 3" GSC PUSHED

FILE NAME =	USER NAME = mezeg	DESIGNED - J.G.	REVISED -
C:\Projects\TSC\EDENS\0160C18-sh-t-plan	94.dgn	DRAWN - G.M.	REVISED -
	PLOT SCALE = 48,0000' / IN.	CHECKED - J.G.	REVISED -
	PLOT DATE = 6/29/2010	DATE - 06/28/2010	REVISED -

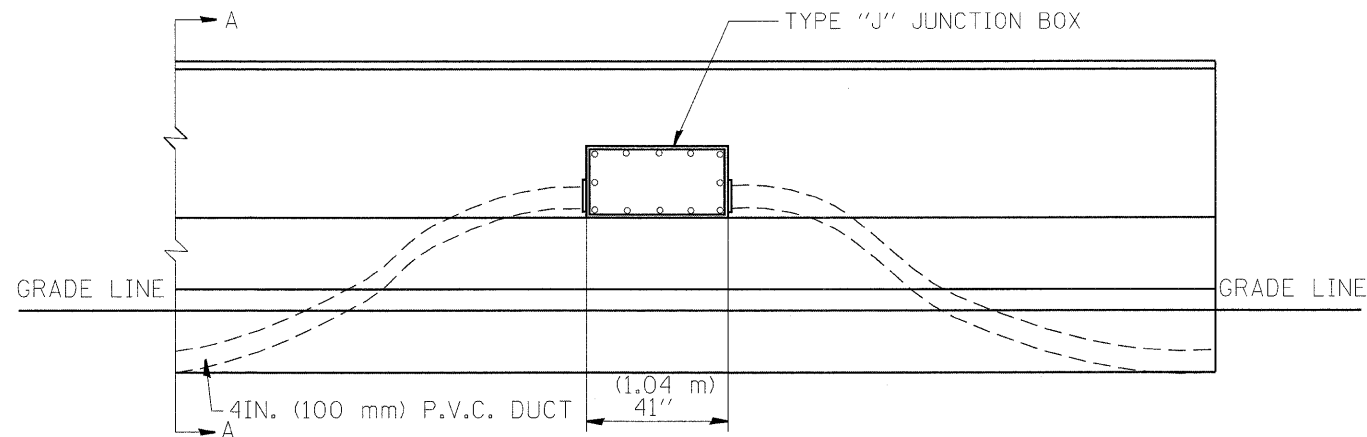
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 TRAFFIC SYSTEMS CENTER

TRAFFIC SURVEILLANCE SAMPLE STATION ELSTON AT EDENS			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

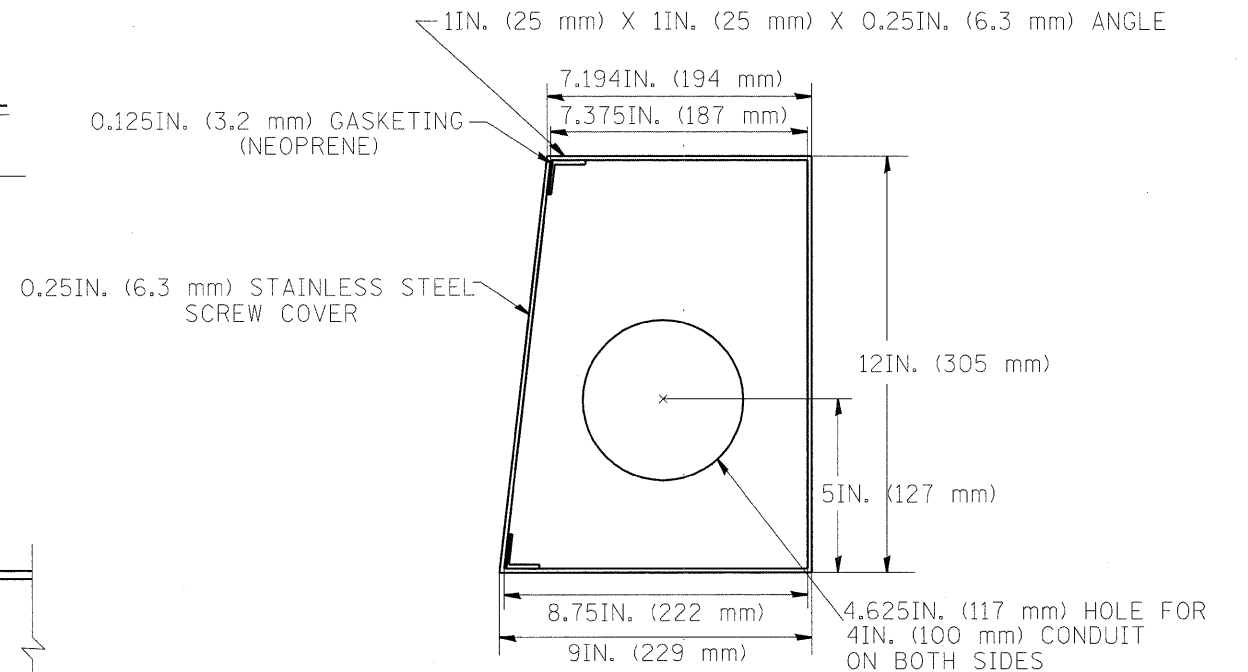
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	0101.8B	COOK	139	76D
CONTRACT NO. 60C18				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



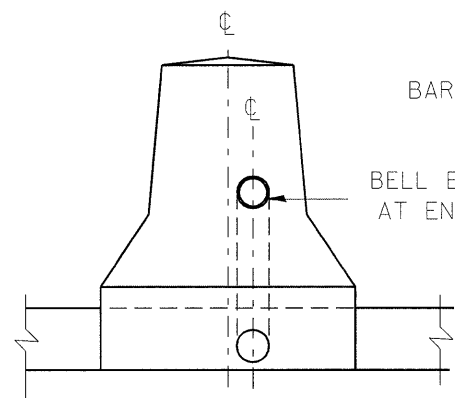
SECTION A-A



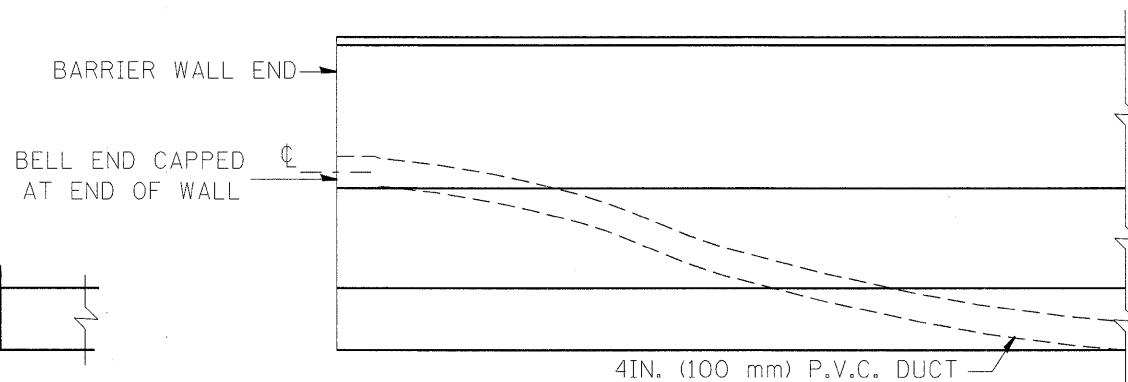
ELEVATION
BARRIER WALL DUCT DETAIL
1500FT. (457.2 m) INTERVAL



SIDE VIEW
SPECIAL JUNCTION BOX TYPE "J" TO BE
INSTALLED IN BARRIER WALL TYPE "2" ONLY



END VIEW



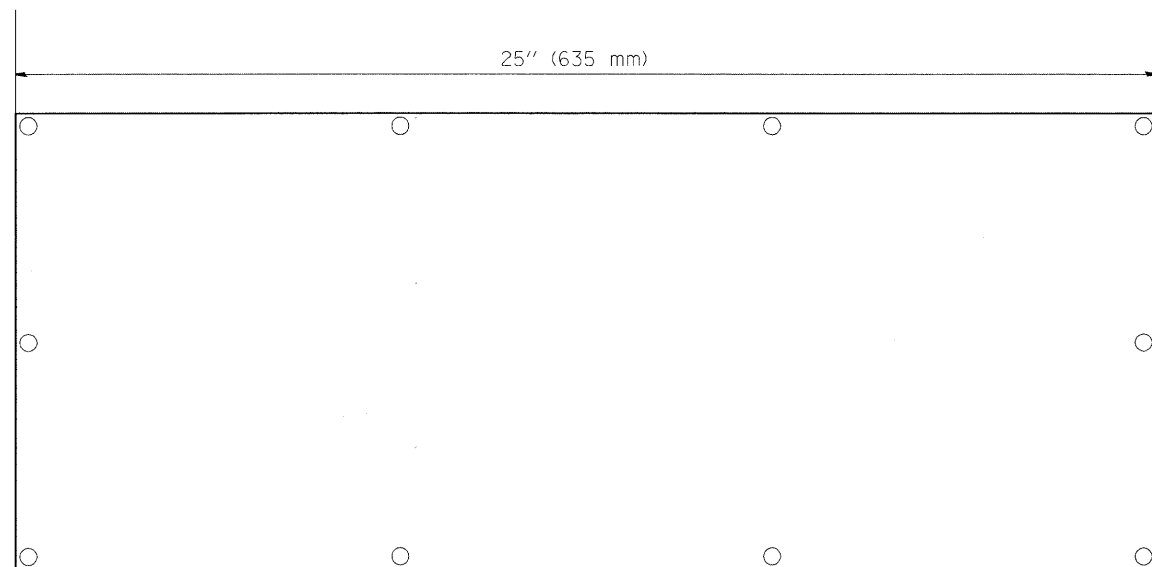
ELEVATION

END OF BARRIER WALL DUCT DETAIL

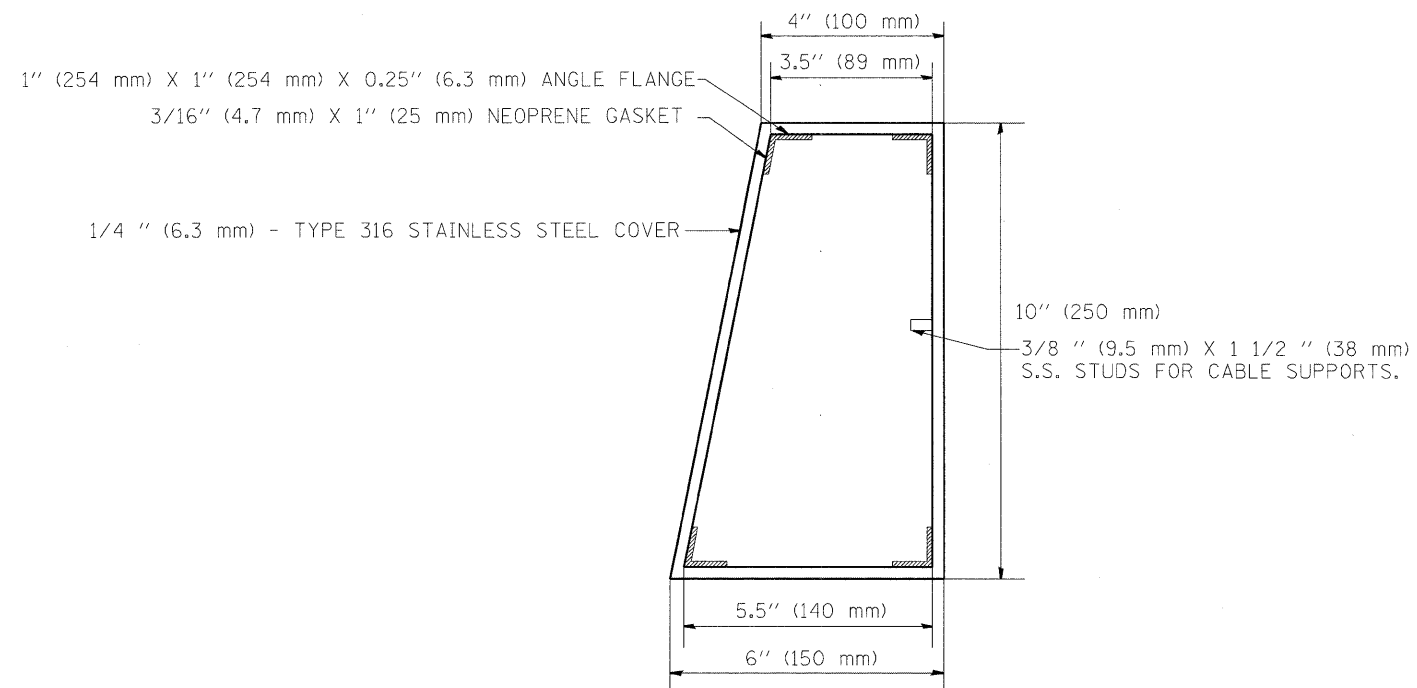
ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF
BOX AND COVER SHALL BE 0.25IN. (6.4 mm) TYPE 316 STAINLESS STEEL

BARRIER WALL SHALL BE GAPPED A MINIMUM OF 15FT. (4.57 m) FOR PROPER PLACEMENT OF JUNCTION BOX TYPE "J"
AND FOR A SMOOTH TRANSITION OF 4IN. (100 mm) PVC SURVEILLANCE DUCT(S) FROM BARRIER WALL FOOTER INTO JUNCTION BOX.

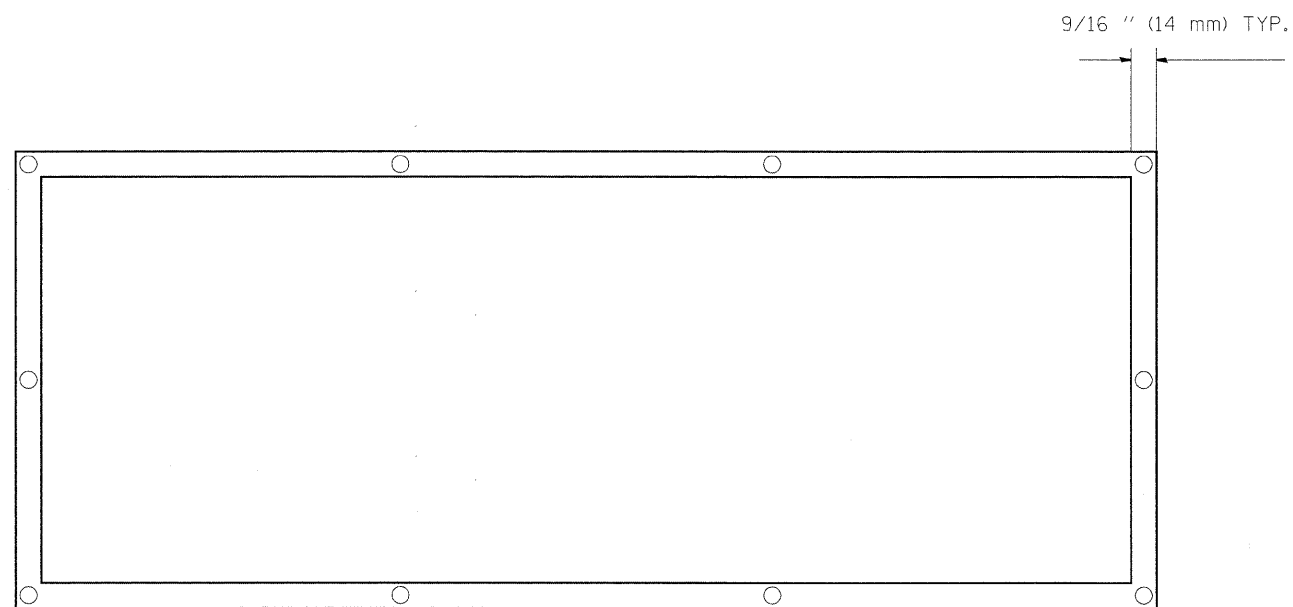
FILE NAME = C:\Projects\TSC\TYPICALS\TSC\TYF08B.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	TRAFFIC SURVEILLANCE BARRIER WALL DUCT DETAILS			F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 76E
PLOT SCALE = 100.0000 "/>												



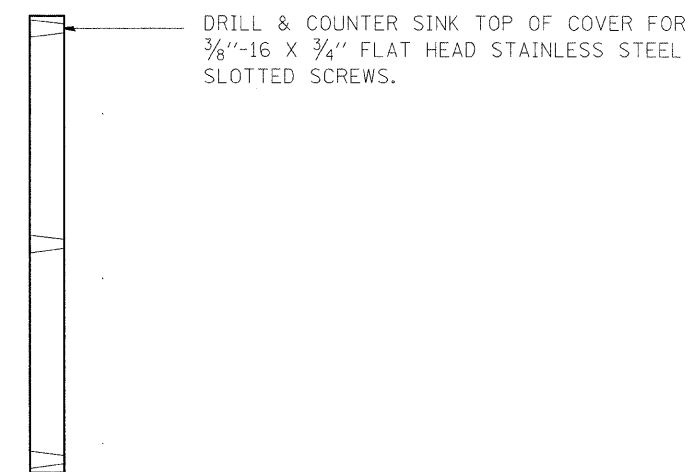
FRONT VIEW



SIDE VIEW



BACK VIEW OF COVER WITH NEOPRENE GASKET



SIDE VIEW OF COVER

NOTES:

JUNCTION BOXES TO BE CONSTRUCTED OF 1/4 IN. (3 mm) TYPE 316 STAINLESS STEEL.
 ALL WELDS SHALL BE CONTINUOUS AND LEAK PROOF.
 ALL COVERS SHALL BE UNIVERSAL IN FIT.
 TAP ANGLE FLANGE FOR 3/8 IN.-16 X 3/4 IN. SCREW.

FILE NAME = C:\Projects\TSC\TYPICALS\TSC\TYP08.dgn	USER NAME = mezog	DESIGNED - R.L.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	JUNCTION BOX			F.A.I. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 76F
PLOT SCALE = 100.0000 "/ IN.	CHECKED - R.L.	REVISED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60C18				
PLOT DATE = 6/29/2010	DATE - 02/98	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
TRAFFIC SYSTEMS CENTER (TY-1TSC-663#12)												

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " \emptyset , holes $\frac{13}{16}$ " \emptyset , unless otherwise noted.
2. Calculated weight of structural steel = 330,000 Pounds (M270 Grade 50)
= 15,250 Pounds (M270 Grade 36)
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements ASTM A706 GR. 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made by grinding the surface or by shimming the bearings.
8. Concrete Sealer shall be applied to the designated areas of the abutment backwall and bridge seats.
9. The existing structural steel coating contains lead. The Contractor shall take the appropriate precautions to deal with the presence of lead on this project.
10. Embedded Bars shall be epoxy grouted, to the depth specified, in accordance with Section 584 of the Standard Specifications.
11. The existing Protective Shield System shall meet the requirements of Section 501 of the Standard Specifications. The cost of additional reinforcement, if any, to meet the requirements of Section 501, closing ends adjacent to substructures, and the removal of the existing Protective Shield System shall be included in the cost for "Removal of Existing Superstructures".
12. Contractor is to coordinate work and schedule with COM ED Utility for their removal and replacement of the existing 12-duct system attached to underside of bridge deck. See Roadway Special Provisions for contact information. The COM ED 12-duct system will be required to run through the proposed abutment backwalls. Contractor to submit drawings and details, related to this item, to the Engineer for approval. Cost to be included in "Concrete Superstructures".
13. Slipforming of the parapets is not allowed.
14. All structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."
15. Attachments to galvanized members shall be properly insulated to prevent galvanic corrosion.

TOTAL BILL OF MATERIALS

Item	Unit	Super	Sub	Total
Porous Granular Embankment, Special	Cu. Yd.		263	263
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		213	213
Removal of Existing Sub-Structures	Each		1	1
* Structure Excavation	Cu. Yd.		940	940
Concrete Structures	Cu. Yd.		506.6	506.6
Concrete Superstructures	Cu. Yd.	592.8		592.8
Bridge Deck Grooving	Sq. Yd.	1,355		1,355
Protective Coat	Sq. Yd.	1,822		1,822
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	5,112		5,112
Reinforcement Bars, Epoxy Coated	Pound	129,212	54,595	183,807
Bar Splicers	Each	590	338	928
Bridge Fence Railing	Foot	422		422
Furnishing Steel Piles HP 12x53	Foot		1,313	1,313
Driving Piles	Foot		1,313	1,313
Test Pile Steel HP 12x53	Each		1	1
Temporary Sheet Piling	Sq. Ft.		3,257	3,257
Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot	182		182
Elastomeric Bearing Assembly, Type I	Each	24		24
Concrete Sealer	Sq. Ft.		3,723	3,723
Epoxy Crack Injection	Foot		49	49
Geocomposite Wall Drain	Sq. Yd.		253	253
Temporary Soil Retention System	Sq. Ft.		2,505	2,505
Removal of Asbestos Cement Conduit	Foot	918		918
Structural Repair of Concrete (Depth Equal to or less than 5 in.)	Sq. Ft.		54	54

* All excavated material shall be disposed of within IDOT right-of-way and within the project limits. See the General Notes sheet from the roadway plans for more information.

INDEX OF SHEET

Sheet No.	Description
1	General Plan and Elevation
2	General Data Sheet
3	Construction Staging
4	Temporary Concrete Barrier
5	Temporary Soil Retention System
6-7	Temporary Sheet Piling
8-10	Top of Slab Elevations
11	Top of Approach Slab Elevations
12	Superstructure Plan
13	Superstructure Cross Section
14-15	Superstructure Details
16	Preformed Joint Strip Seal
17	Bridge Fence Railing Parapet Mounted
18-21	Approach Slab Details
22	Framing Plan
23	Framing Details
24	Bearing Details
25-27	West Abutment Details
28-30	East Abutment Details
31-32	Pier Details
33-37	Parapet on Existing Ret. Walls
38	Canilever Forming Brackets
39	HP Pile Details
40	Bar Splicers
41-42	Boring Logs

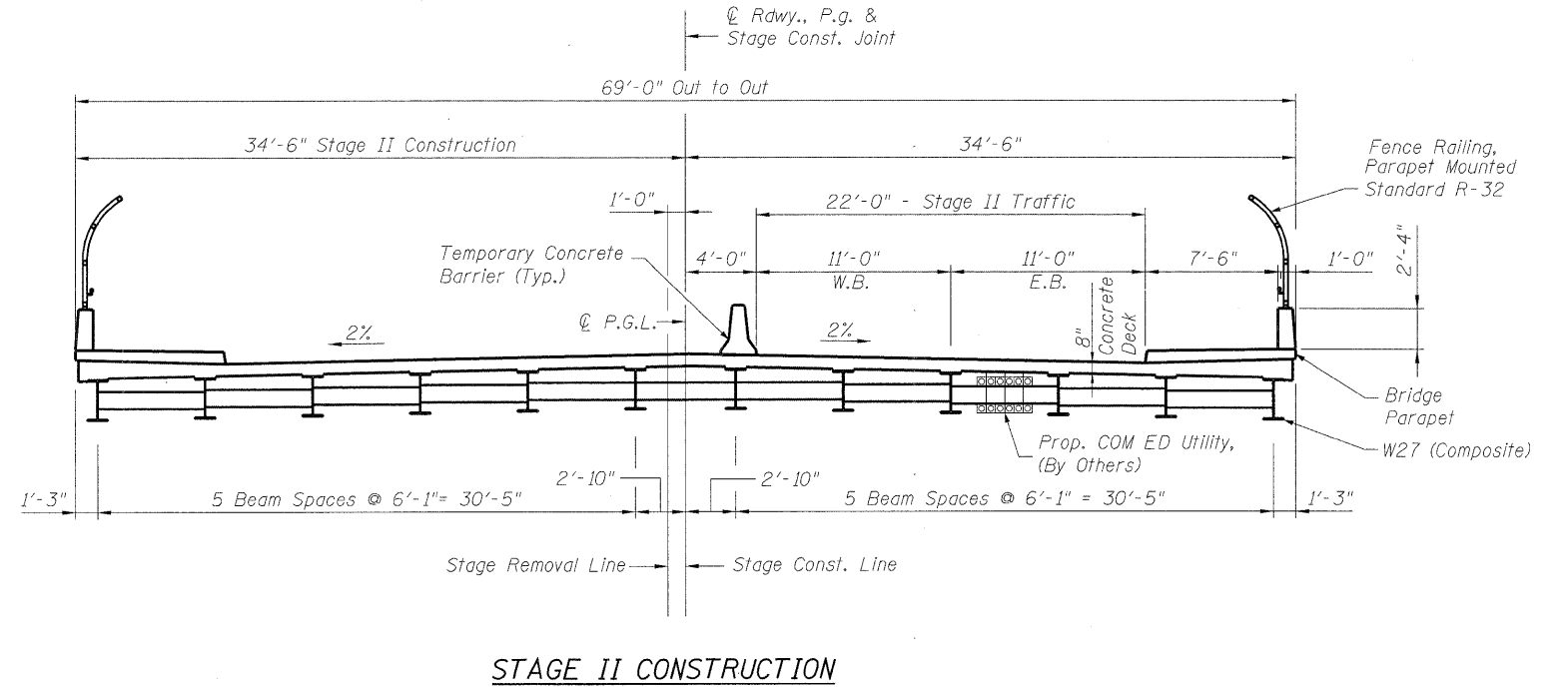
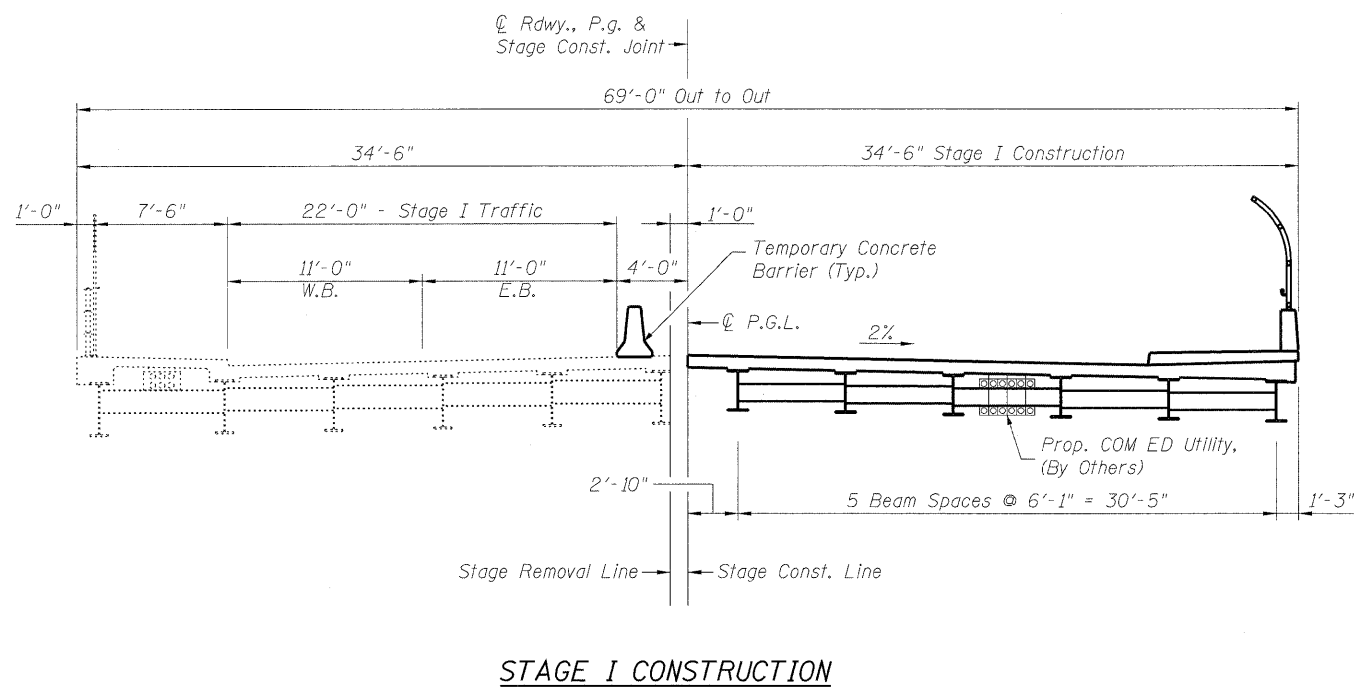
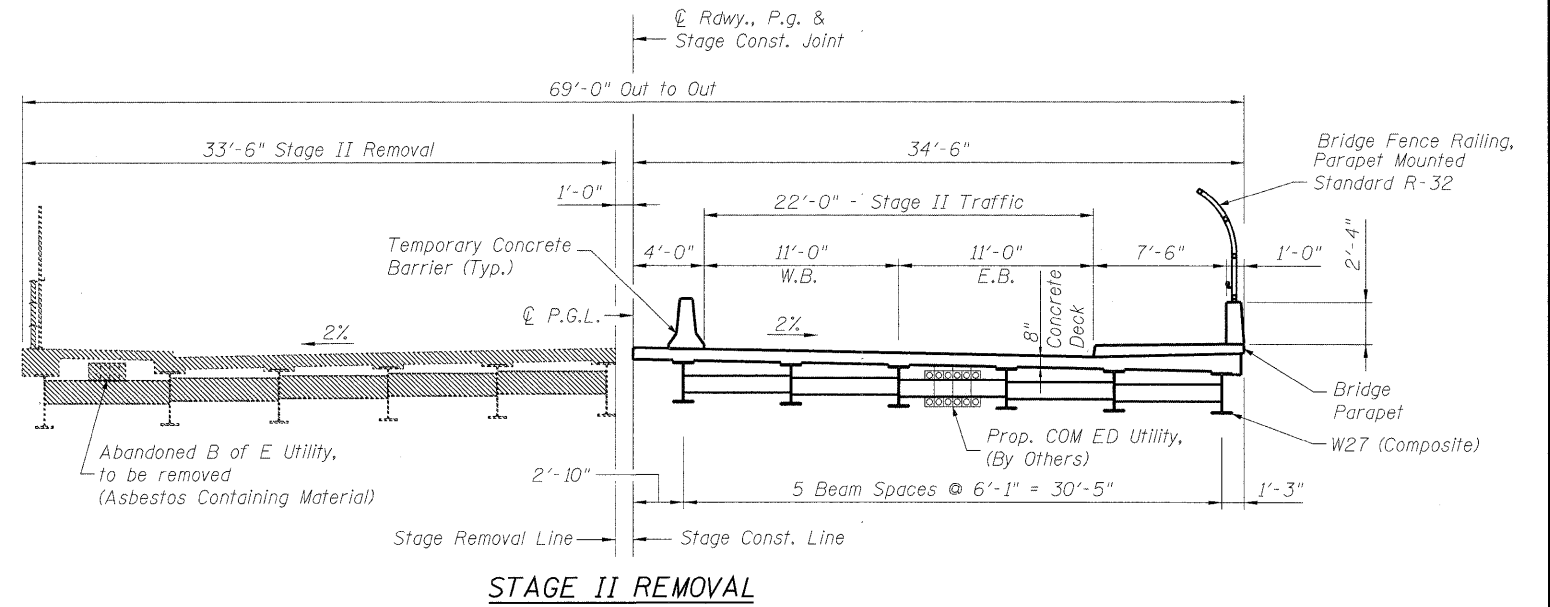
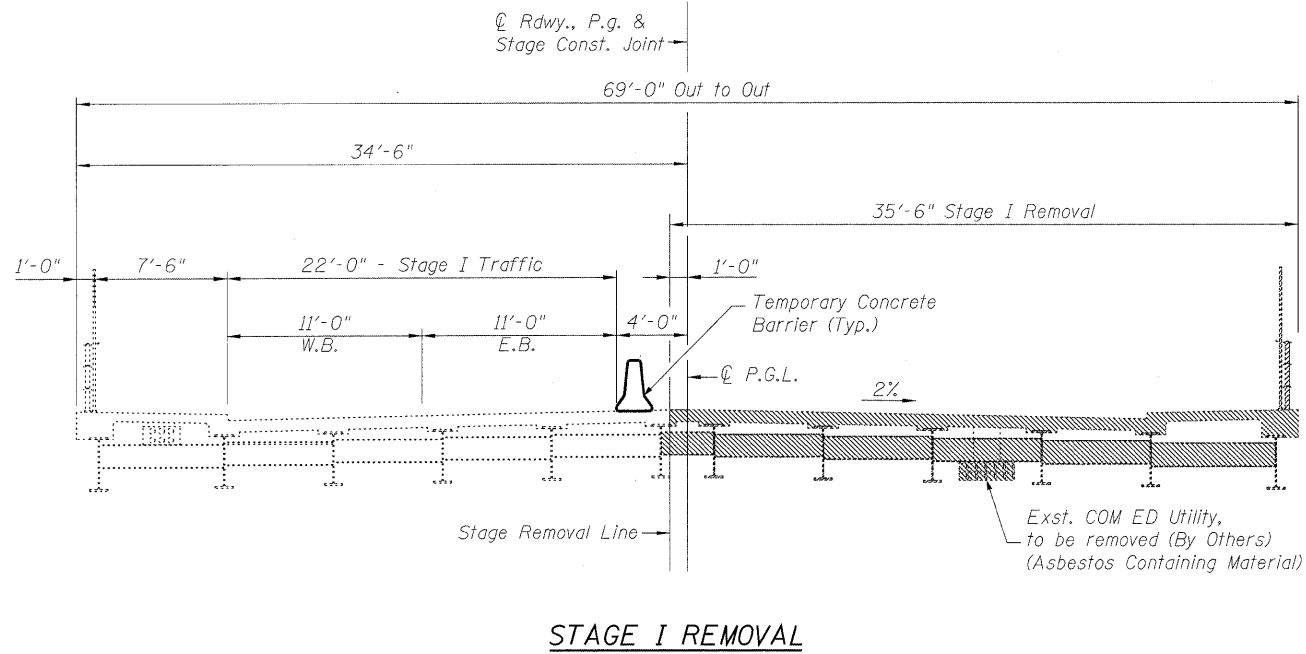
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

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Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

SHEET NO. 2 OF 42 SHEETS	F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	78
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					

**GENERAL DATA
STRUCTURE NUMBER 016-0610**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

Notes:

1. Stage removal and construction locations differ for the superstructure and substructure.
2. The cost of existing bridge rail removal and fence removal is included in the cost of Removal of Existing Superstructure, see Special Provision.
3. See Roadway Plans for quantity of Temporary Concrete Barrier.

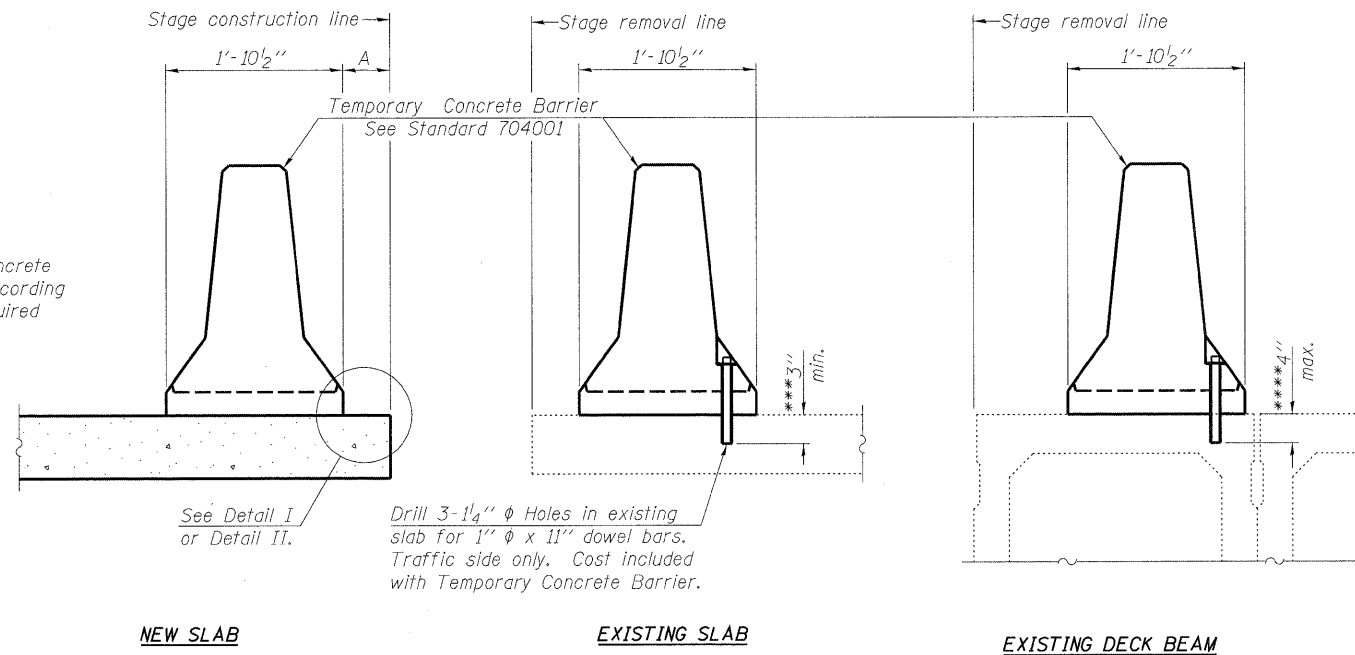
**CONSTRUCTION STAGING
STRUCTURE NUMBER 016-0610**

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SHEET NO. 3 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	79
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ x 11" dowel bars. Traffic side only. Cost included with Temporary Concrete Barrier.

See Detail I or Detail II.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

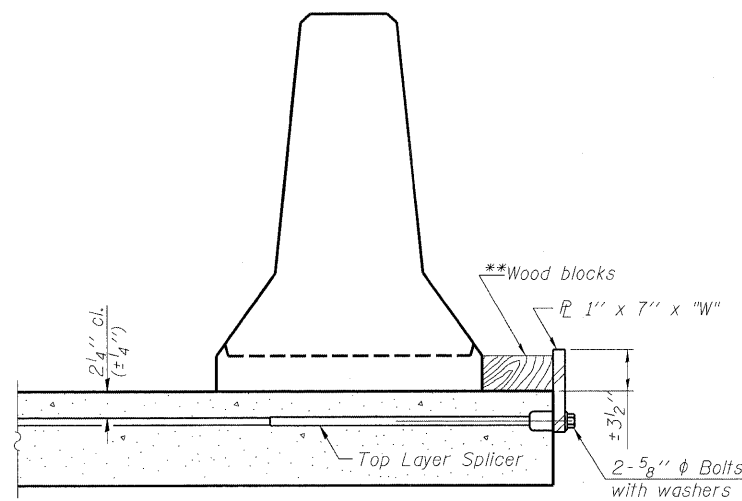
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

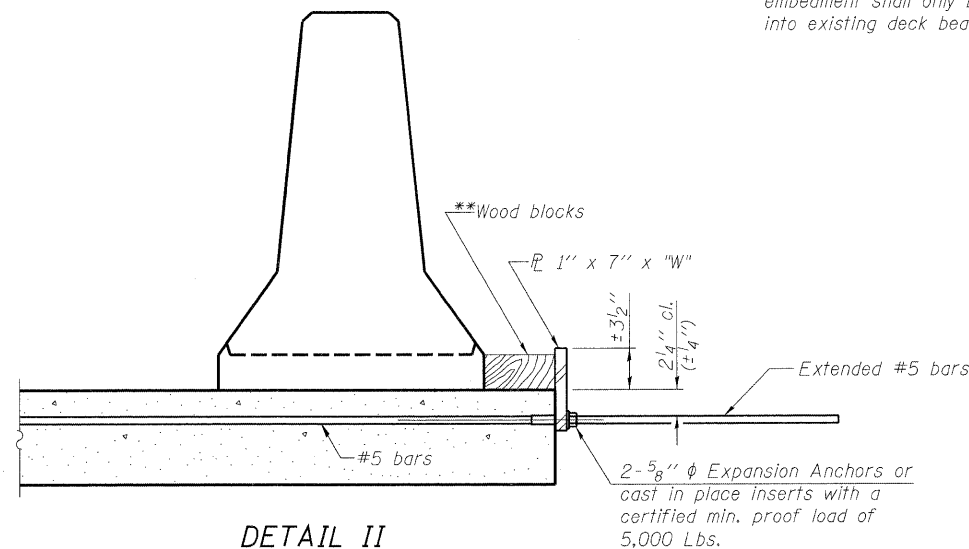
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

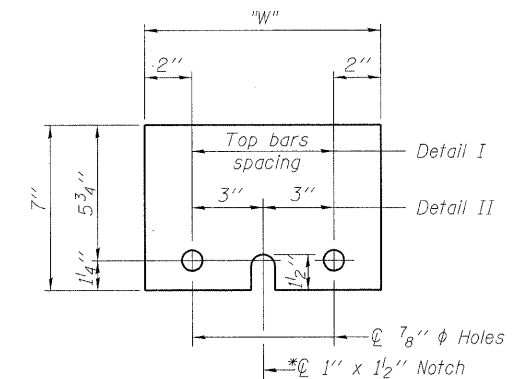
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x 10"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

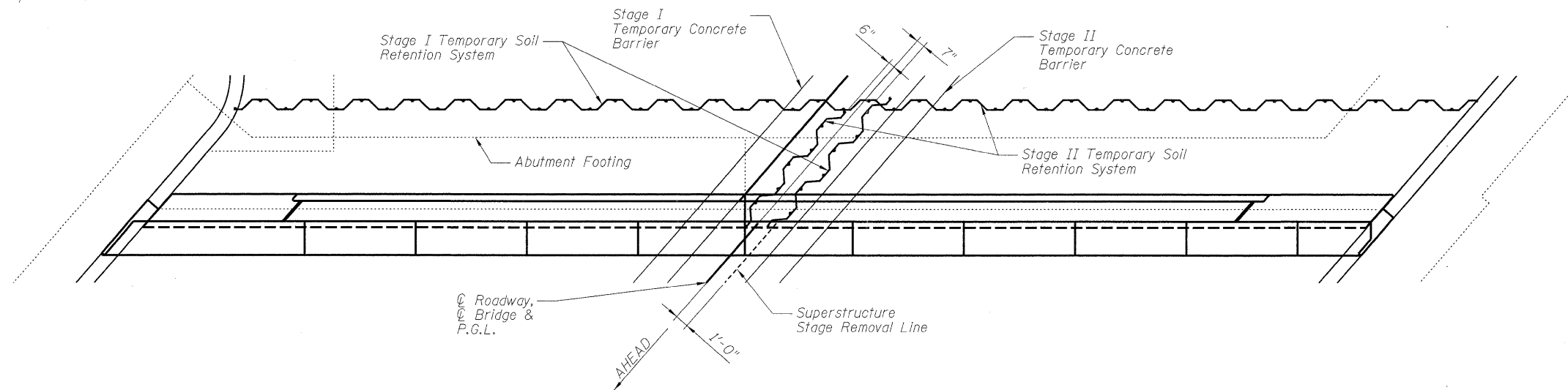
R-27

11-1-09

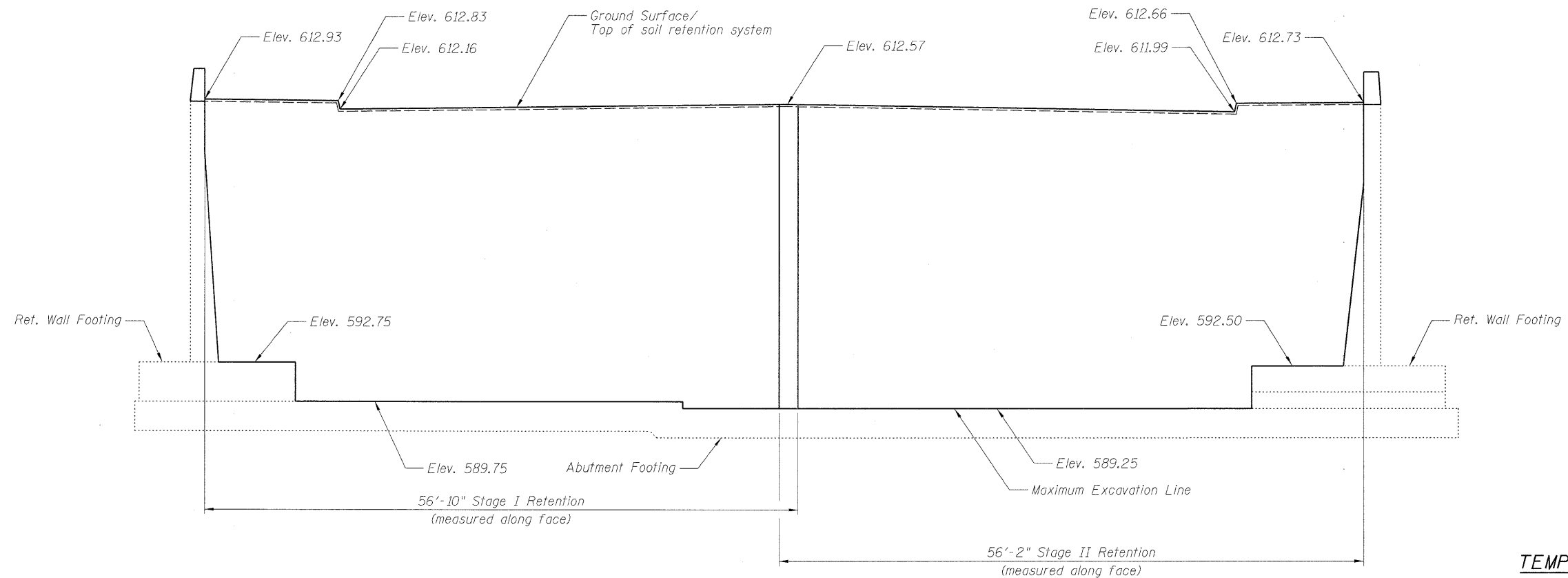
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SHEET NO. 4 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	80
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



WEST ABUTMENT - TEMPORARY SOIL RETENTION SYSTEM PLAN



WEST ABUTMENT - TEMPORARY SOIL RETENTION SYSTEM ELEVATION

**TEMPORARY SOIL
RETENTION SYSTEM
STRUCTURE NUMBER 016-0610**

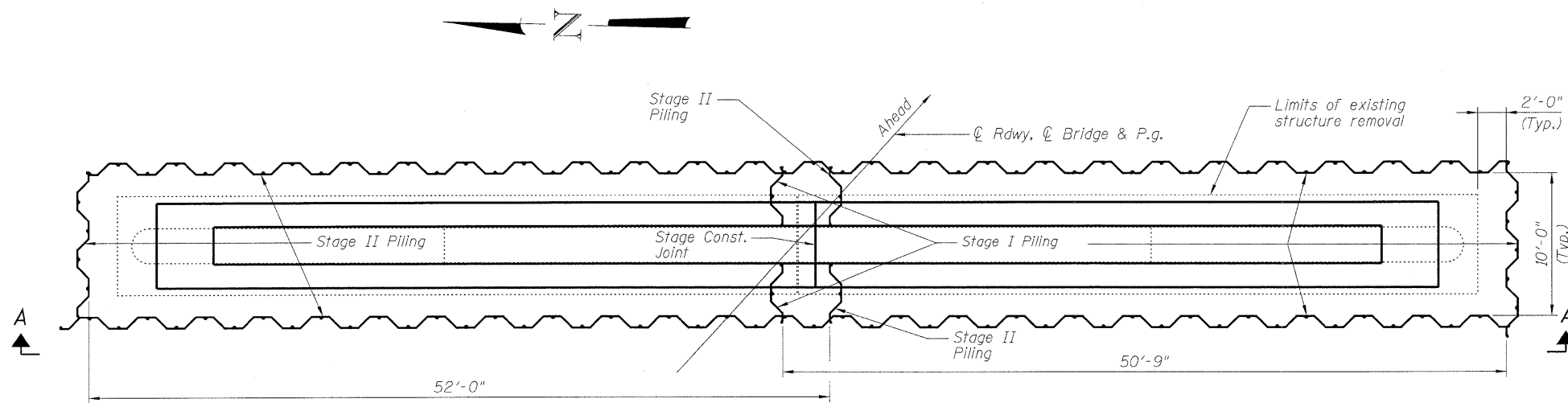
DESIGNED - ASP
CHECKED - DPW
DRAWN - JMH
CHECKED - ASP

Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including any plan details and calculations for review and acceptance by the Engineer.

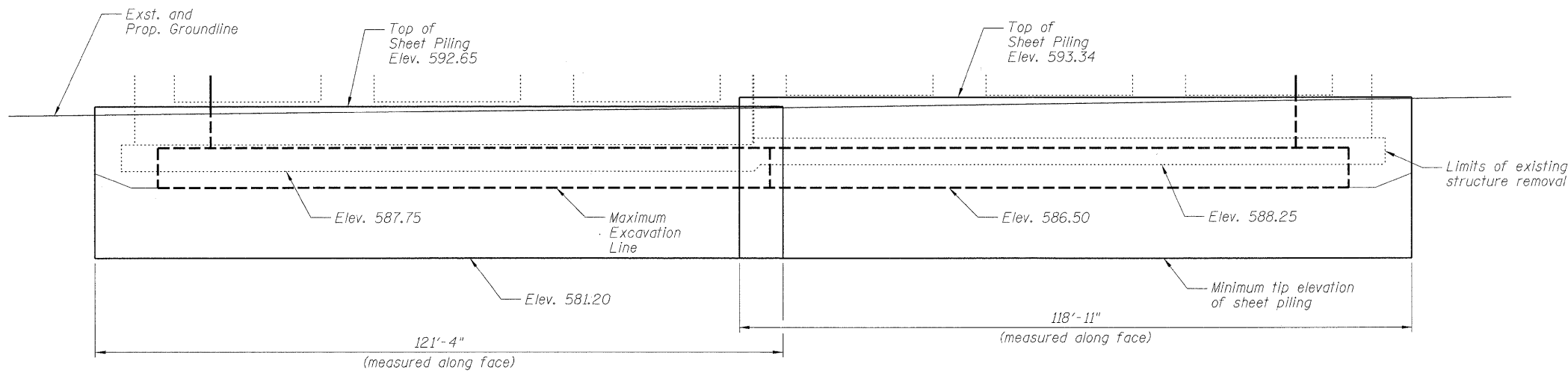
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SHEET NO. 5 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	81
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PIER SHEET PILING PLAN



STAGE II - TEMPORARY SHEET PILING

STAGE I - TEMPORARY SHEET PILING

VIEW A-A

PIER SHEET PILING ELEVATION

PROPOSED TEMPORARY SHEET PILING DATA

	Stage I	Stage II
Top Elev.	593.34	592.65
Bottom Elev.	581.20	581.20
Embedment	5'-4"	5'-4"
Min. Section Modulus	2.2 in ³ /ft	2.2 in ³ /ft
Length	118'-11"	121'-4"

Notes:

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing pier wall to ensure stability of the sheets driven to the top of the footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

DESIGNED - ASP
CHECKED - DPW
DRAWN - JMH
CHECKED - ASP

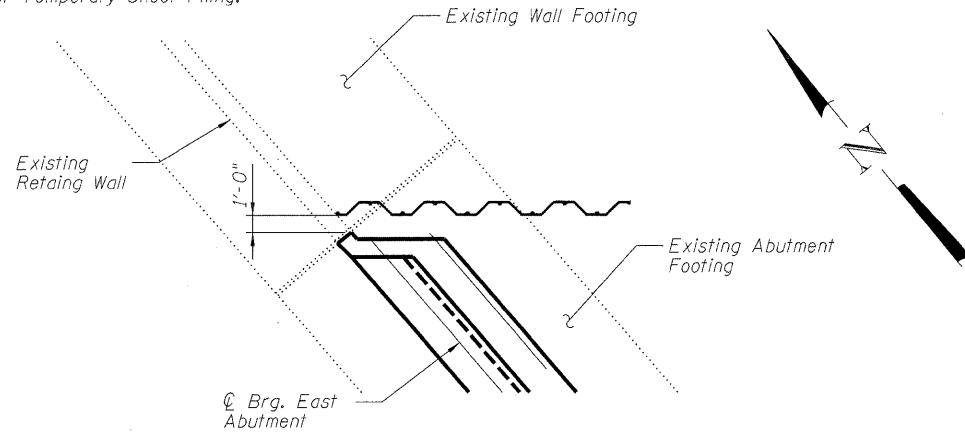
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TEMPORARY SHEET PILING I
STRUCTURE NUMBER 016-0610

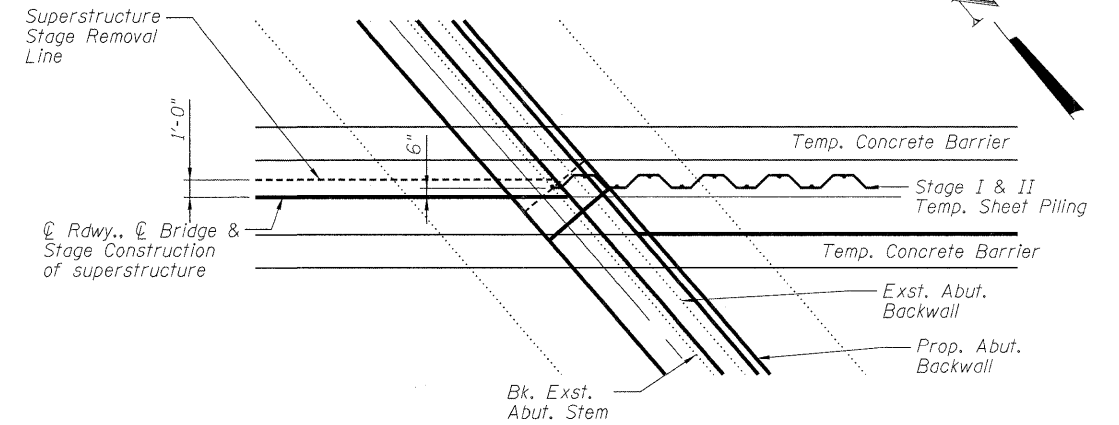
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	CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
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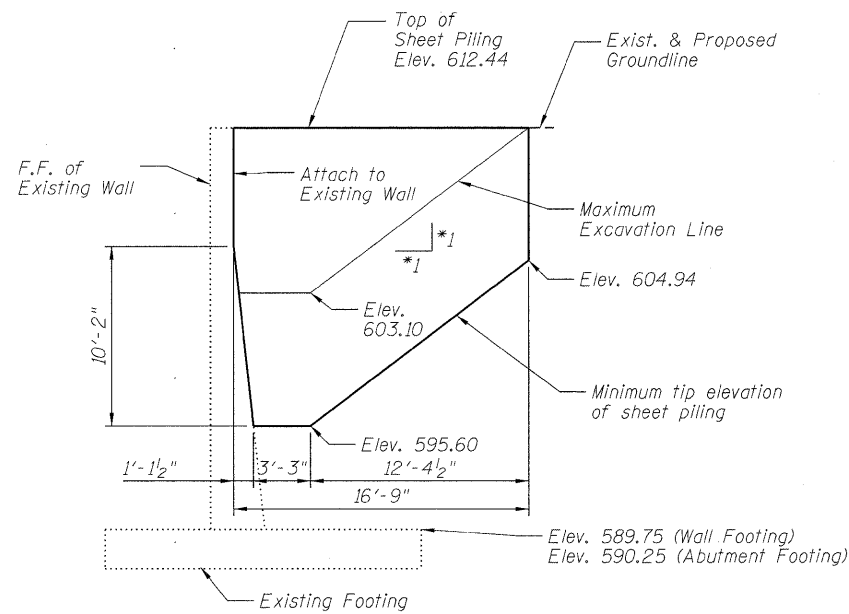
Notes:
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of the sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.



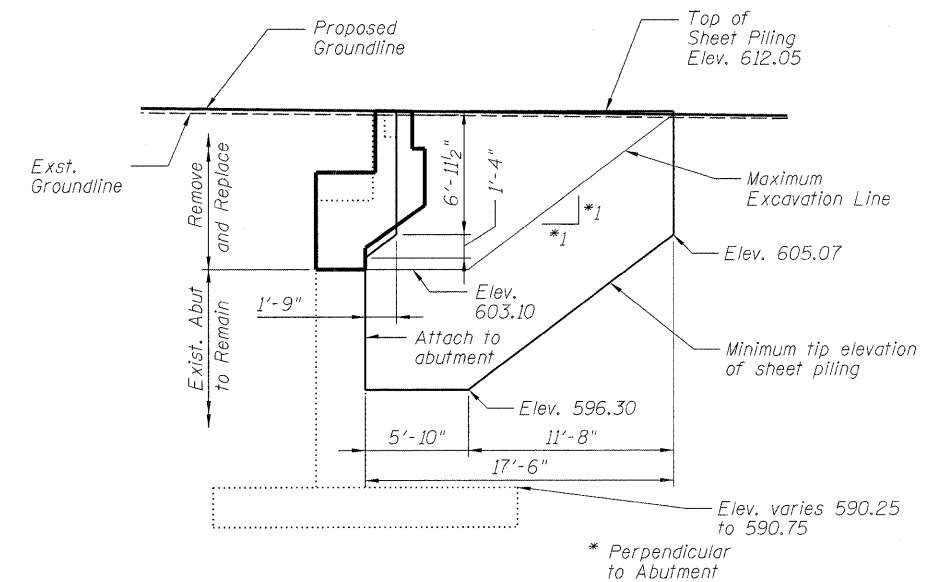
EAST ABUTMENT SHEET PILING PLAN
(North of Abutment - Stage II)



EAST ABUTMENT SHEET PILING PLAN
(at Stage Construction Line - Stage I & II)



EAST ABUTMENT SHEET PILING ELEVATION
(North of Abutment - Stage II)



EAST ABUTMENT - TEMPORARY SHEET PILING
(at Stage Construction Line - Stage I & II)

PROPOSED TEMPORARY SHEET PILING DATA - STAGE II
(North of Abutment - Stage II)

Top Elev. = 612.44
Embedment = 7'-6"
Min. Section Modulus = 5.7 in³/ft

PROPOSED TEMPORARY SHEET PILING DATA - STAGE I & II
(at Stage Construction Line - Stage I & II)

Top Elev. = 612.05
Embedment = 6'-10"
Min. Section Modulus = 4.3 in³/ft

DESIGNED - ASP
CHECKED - DPW
DRAWN - JMH
CHECKED - ASP

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Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

SHEET NO. 7 OF 42 SHEETS	F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	83
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					

TEMPORARY SHEET PILING II
STRUCTURE NUMBER 016-0610

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 1

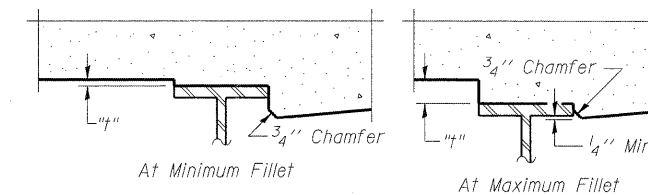
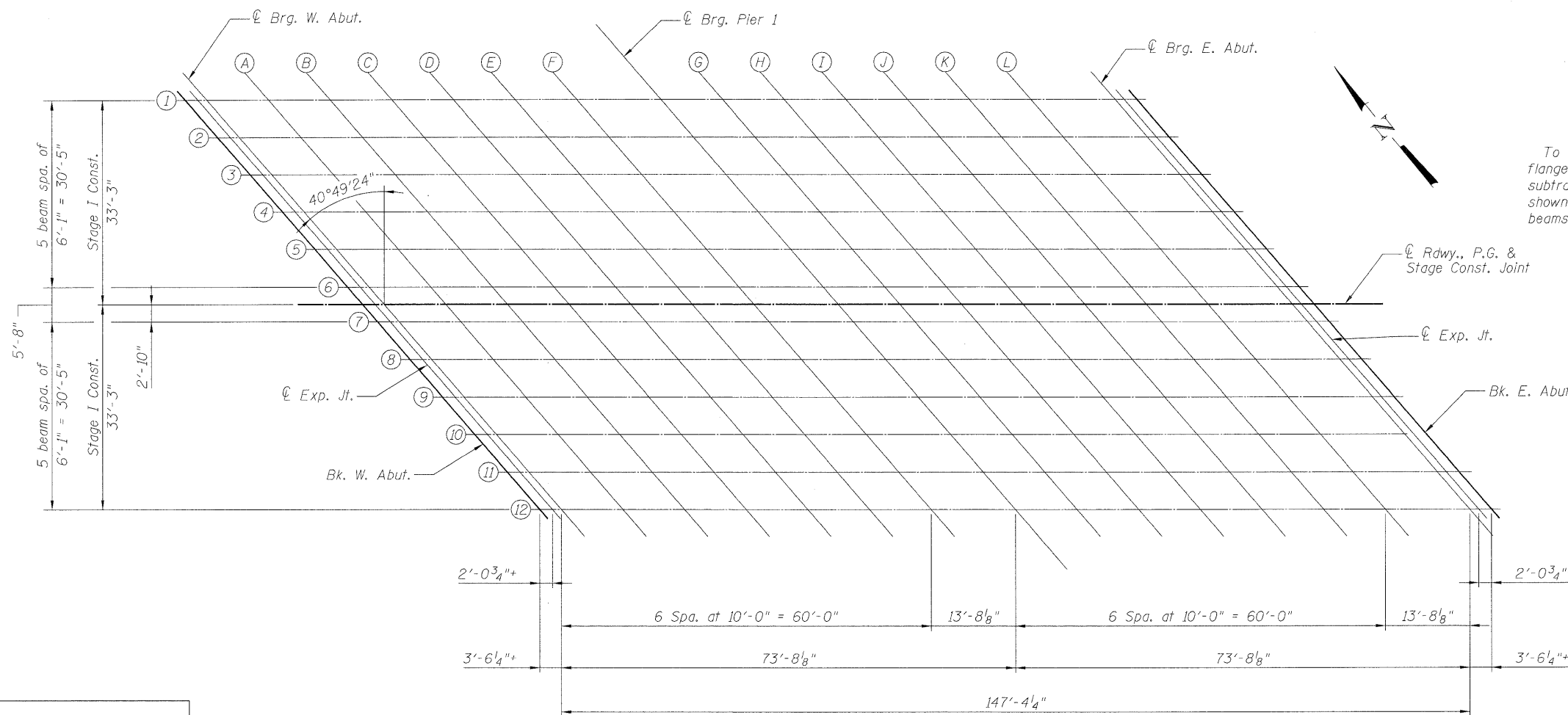
BEAM 2

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	48+93.32	-33.25	611.85	611.85
EXP. JT.	48+95.38	-33.25	611.85	611.85
BRG. W. ABUT.	48+96.84	-33.25	611.86	611.86
A	49+06.84	-33.25	611.89	611.93
B	49+16.84	-33.25	611.92	611.99
C	49+26.84	-33.25	611.98	612.06
D	49+36.84	-33.25	612.02	612.10
E	49+46.84	-33.25	612.05	612.10
F	49+56.84	-33.25	612.06	612.09
BRG. PIER 1	49+70.51	-33.25	612.07	612.07
G	49+80.51	-33.25	612.05	612.07
H	49+90.51	-33.25	612.03	612.07
I	50+00.51	-33.25	612.00	612.07
J	50+10.51	-33.25	611.95	612.03
K	50+20.51	-33.25	611.90	611.97
L	50+30.51	-33.25	611.83	611.88
BRG. E. ABUT.	50+44.18	-33.25	611.72	611.72
EXP. JT.	50+45.64	-33.25	611.70	611.70
BK. E. ABUT.	50+47.71	-33.25	611.68	611.68

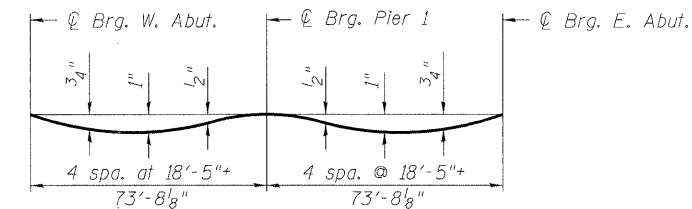
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	48+98.57	-27.17	611.98	611.98
EXP. JT.	49+00.63	-27.17	611.99	611.99
BRG. W. ABUT.	49+02.09	-27.17	611.99	611.99
A	49+12.09	-27.17	612.03	612.07
B	49+22.09	-27.17	612.07	612.15
C	49+32.09	-27.17	612.12	612.22
D	49+42.09	-27.17	612.16	612.24
E	49+52.09	-27.17	612.18	612.24
F	49+62.09	-27.17	612.19	612.21
BRG. PIER 1	49+75.76	-27.17	612.18	612.18
G	49+85.76	-27.17	612.17	612.18
H	49+95.76	-27.17	612.14	612.18
I	50+05.76	-27.17	612.10	612.17
J	50+15.76	-27.17	612.05	612.14
K	50+25.76	-27.17	611.98	612.07
L	50+35.76	-27.17	611.91	611.97
BRG. E. ABUT.	50+49.44	-27.17	611.79	611.79
EXP. JT.	50+50.90	-27.17	611.77	611.77
BK. E. ABUT.	50+52.96	-27.17	611.75	611.75

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+03.83	-21.08	612.12	612.12
EXP. JT.	49+05.89	-21.08	612.13	612.13
BRG. W. ABUT.	49+07.35	-21.08	612.13	612.13
A	49+17.35	-21.08	612.17	612.21
B	49+27.35	-21.08	612.23	612.30
C	49+37.35	-21.08	612.26	612.35
D	49+47.35	-21.08	612.29	612.37
E	49+57.35	-21.08	612.31	612.36
F	49+67.35	-21.08	612.31	612.33
BRG. PIER 1	49+81.02	-21.08	612.30	612.30
G	49+91.02	-21.08	612.27	612.29
H	50+01.02	-21.08	612.24	612.28
I	50+11.02	-21.08	612.19	612.26
J	50+21.02	-21.08	612.14	612.22
K	50+31.02	-21.08	612.07	612.14
L	50+41.02	-21.08	611.99	612.04
BRG. E. ABUT.	50+54.69	-21.08	611.86	611.86
EXP. JT.	50+56.15	-21.08	611.75	611.75
BK. E. ABUT.	50+58.22	-21.08	611.82	611.82



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below and on sheets 9 & 10 of 42.

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

PLAN

TOP OF SLAB ELEVATIONS I
STRUCTURE NUMBER 016-0610

DLZ 85 W. Algonquin Rd. Ste. 220
Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

SHEET NO. 8 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	84
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+09.08	-15.00	612.26	612.26
EXP. JT.	49+11.15	-15.00	612.27	612.27
BRG. W. ABUT.	49+12.60	-15.00	612.27	612.27
A	49+22.60	-15.00	612.32	612.36
B	49+32.60	-15.00	612.37	612.44
C	49+42.60	-15.00	612.40	612.49
D	49+52.60	-15.00	612.42	612.50
E	49+62.60	-15.00	612.43	612.49
F	49+72.60	-15.00	612.43	612.45
BRG. PIER 1	49+86.28	-15.00	612.41	612.41
G	49+96.28	-15.00	612.38	612.39
H	50+06.28	-15.00	612.34	612.38
I	50+16.28	-15.00	612.29	612.36
J	50+26.28	-15.00	612.22	612.31
K	50+36.28	-15.00	612.15	612.23
L	50+46.28	-15.00	612.06	612.11
BRG. E. ABUT.	50+59.95	-15.00	611.92	611.92
EXP. JT.	50+61.41	-15.00	611.91	611.91
BK. E. ABUT.	50+63.47	-15.00	611.89	611.89

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+14.34	-8.92	612.40	612.40
EXP. JT.	49+16.40	-8.92	612.41	612.41
BRG. W. ABUT.	49+17.86	-8.92	612.42	612.42
A	49+27.86	-8.92	612.47	612.51
B	49+37.86	-8.92	612.51	612.58
C	49+47.86	-8.92	612.54	612.62
D	49+57.86	-8.92	612.55	612.63
E	49+67.86	-8.92	612.55	612.61
F	49+77.86	-8.92	612.54	612.57
BRG. PIER 1	49+91.53	-8.92	612.51	612.51
G	50+01.53	-8.92	612.48	612.49
H	50+11.53	-8.92	612.43	612.48
I	50+21.53	-8.92	612.38	612.45
J	50+31.53	-8.92	612.31	612.39
K	50+41.53	-8.92	612.23	612.30
L	50+51.53	-8.92	612.13	612.19
BRG. E. ABUT.	50+65.20	-8.92	611.99	611.99
EXP. JT.	50+66.66	-8.92	611.97	611.97
BK. E. ABUT.	50+68.73	-8.92	611.95	611.95

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+19.59	-2.83	612.55	612.55
EXP. JT.	49+21.66	-2.83	612.56	612.56
BRG. W. ABUT.	49+23.11	-2.83	612.57	612.57
A	49+33.11	-2.83	612.61	612.65
B	49+43.11	-2.83	612.65	612.72
C	49+53.11	-2.83	612.67	612.75
D	49+63.11	-2.83	612.67	612.75
E	49+73.11	-2.83	612.67	612.73
F	49+83.11	-2.83	612.66	612.68
BRG. PIER 1	49+96.79	-2.83	612.62	612.62
G	50+06.79	-2.83	612.58	612.59
H	50+16.79	-2.83	612.53	612.57
I	50+26.79	-2.83	612.46	612.53
J	50+36.79	-2.83	612.39	612.47
K	50+46.79	-2.83	612.30	612.38
L	50+56.79	-2.83	612.20	612.25
BRG. E. ABUT.	50+70.46	-2.83	612.05	612.05
EXP. JT.	50+71.92	-2.83	612.03	612.03
BK. E. ABUT.	50+73.98	-2.83	612.01	612.01

ROADWAY, P.G. & STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+22.04	0.00	612.61	612.61
EXP. JT.	49+24.10	0.00	612.63	612.63
BRG. W. ABUT.	49+25.56	0.00	612.64	612.64
A	49+35.56	0.00	612.68	612.72
B	49+45.56	0.00	612.71	612.78
C	49+55.56	0.00	612.73	612.81
D	49+65.56	0.00	612.73	612.81
E	49+75.56	0.00	612.73	612.78
F	49+85.56	0.00	612.71	612.73
BRG. PIER 1	49+99.23	0.00	612.67	612.67
G	50+09.23	0.00	612.62	612.64
H	50+19.23	0.00	612.57	612.61
I	50+29.23	0.00	612.50	612.57
J	50+39.23	0.00	612.42	612.51
K	50+49.23	0.00	612.33	612.41
L	50+59.23	0.00	612.23	612.29
BRG. E. ABUT.	50+72.91	0.00	612.08	612.08
EXP. JT.	50+74.37	0.00	612.06	612.06
BK. E. ABUT.	50+76.43	0.00	612.03	612.03

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+24.49	2.83	612.58	612.58
EXP. JT.	49+26.55	2.83	612.59	612.59
BRG. W. ABUT.	49+28.01	2.83	612.59	612.59
A	49+38.01	2.83	612.63	612.67
B	49+48.01	2.83	612.66	612.73
C	49+58.01	2.83	612.67	612.76
D	49+68.01	2.83	612.67	612.75
E	49+78.01	2.83	612.67	612.72
F	49+88.01	2.83	612.65	612.67
BRG. PIER 1	50+01.68	2.83	612.60	612.60
G	50+11.68	2.83	612.55	612.57
H	50+21.68	2.83	612.50	612.54
I	50+31.68	2.83	612.43	612.50
J	50+41.68	2.83	612.35	612.43
K	50+51.68	2.83	612.25	612.33
L	50+61.68	2.83	612.15	612.20
BRG. E. ABUT.	50+75.35	2.83	611.98	611.98
EXP. JT.	50+76.81	2.83	611.97	611.97
BK. E. ABUT.	50+78.88	2.83	611.94	611.94

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+29.74	8.92	612.48	612.48
EXP. JT.	49+31.81	8.92	612.49	612.49
BRG. W. ABUT.	49+33.27	8.92	612.49	612.49
A	49+43.27	8.92	612.52	612.57
B	49+53.27	8.92	612.54	612.62
C	49+63.27	8.92	612.55	612.64
D	49+73.27	8.92	612.55	612.63
E	49+83.27	8.92	612.54	612.59
F	49+93.27	8.92	612.51	612.53
BRG. PIER 1	50+06.94	8.92	612.46	612.46
G	50+16.94	8.92	612.40	612.42
H	50+26.94	8.92	612.34	612.38
I	50+36.94	8.92	612.26	612.33
J	50+46.94	8.92	612.18	612.26
K	50+56.94	8.92	612.08	612.16
L	50+66.94	8.92	611.97	612.02
BRG. E. ABUT.	50+80.61	8.92	611.80	611.80
EXP. JT.	50+82.07	8.92	611.78	611.78
BK. E. ABUT.	50+84.13	8.92	611.76	611.76

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

DLZ 85 W. Algonquin Rd. Ste. 220
Arlington Heights IL 60005
(847)-640-0840
DLZ Illinois, Inc.

SHEET NO. 9 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 85
	CONTRACT NO. 60C18			ILLINOIS FED. AID PROJECT	

**TOP OF SLAB ELEVATIONS II
STRUCTURE NUMBER 016-0610**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+35.00	15.00	612.38	612.38
EXP. JT.	49+37.06	15.00	612.39	612.39
BRG. W. ABUT.	49+38.52	15.00	612.39	612.39
A	49+48.52	15.00	612.41	612.46
B	49+58.52	15.00	612.43	612.50
C	49+68.52	15.00	612.43	612.52
D	49+78.52	15.00	612.42	612.50
E	49+88.52	15.00	612.40	612.46
F	49+98.52	15.00	612.37	612.40
BRG. PIER 1	50+12.19	15.00	612.31	612.31
G	50+22.19	15.00	612.25	612.26
H	50+32.19	15.00	612.18	612.22
I	50+42.19	15.00	612.10	612.17
J	50+52.19	15.00	612.00	612.09
K	50+62.19	15.00	611.90	611.98
L	50+72.19	15.00	611.78	611.84
BRG. E. ABUT.	50+85.86	15.00	611.61	611.61
EXP. JT.	50+87.32	15.00	611.60	611.60
BK. E. ABUT.	50+89.39	15.00	611.57	611.57

BEAM 10

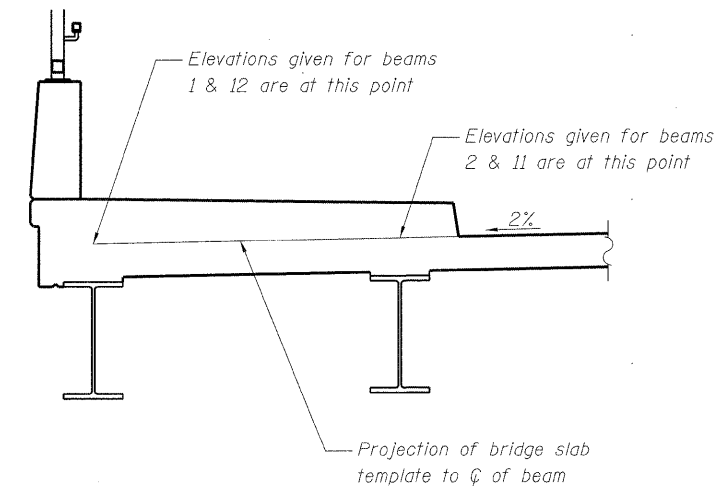
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+40.25	21.08	612.27	612.27
EXP. JT.	49+42.32	21.08	612.28	612.28
BRG. W. ABUT.	49+43.78	21.08	612.28	612.28
A	49+53.78	21.08	612.30	612.34
B	49+63.78	21.08	612.31	612.38
C	49+73.78	21.08	612.31	612.39
D	49+83.78	21.08	612.29	612.37
E	49+93.78	21.08	612.26	612.32
F	50+03.78	21.08	612.23	612.25
BRG. PIER 1	50+17.45	21.08	612.16	612.16
G	50+27.45	21.08	612.09	612.11
H	50+37.45	21.08	612.02	612.06
I	50+47.45	21.08	611.93	612.00
J	50+57.45	21.08	611.83	611.91
K	50+67.45	21.08	611.72	611.80
L	50+77.45	21.08	611.59	611.65
BRG. E. ABUT.	50+91.12	21.08	611.43	611.43
EXP. JT.	50+92.58	21.08	611.42	611.42
BK. E. ABUT.	50+94.64	21.08	611.40	611.40

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+45.51	27.17	612.16	612.16
EXP. JT.	49+47.57	27.17	612.17	612.17
BRG. W. ABUT.	49+49.03	27.17	612.17	612.17
A	49+59.03	27.17	612.19	612.23
B	49+69.03	27.17	612.19	612.27
C	49+79.03	27.17	612.18	612.27
D	49+89.03	27.17	612.16	612.24
E	49+99.03	27.17	612.12	612.19
F	50+09.03	27.17	612.08	612.11
BRG. PIER 1	50+22.70	27.17	612.00	612.00
G	50+32.70	27.17	611.93	611.95
H	50+42.70	27.17	611.85	611.90
I	50+52.70	27.17	611.76	611.83
J	50+62.70	27.17	611.65	611.74
K	50+72.70	27.17	611.54	611.62
L	50+82.70	27.17	611.41	611.47
BRG. E. ABUT.	50+96.37	27.17	611.26	611.26
EXP. JT.	50+97.83	27.17	611.24	611.24
BK. E. ABUT.	50+99.90	27.17	611.22	611.22

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT.	49+50.76	33.25	612.05	612.05
EXP. JT.	49+52.83	33.25	612.06	612.06
BRG. W. ABUT.	49+54.29	33.25	612.06	612.06
A	49+64.29	33.25	612.07	612.11
B	49+74.29	33.25	612.06	612.13
C	49+84.29	33.25	612.05	612.13
D	49+94.29	33.25	612.02	612.10
E	50+04.29	33.25	611.98	612.04
F	50+14.29	33.25	611.93	611.96
BRG. PIER 1	50+27.96	33.25	611.85	611.85
G	50+37.96	33.25	611.77	611.78
H	50+47.96	33.25	611.68	611.72
I	50+57.96	33.25	611.58	611.65
J	50+67.96	33.25	611.47	611.55
K	50+77.96	33.25	611.34	611.42
L	50+87.96	33.25	611.22	611.28
BRG. E. ABUT.	51+01.63	33.25	611.08	611.08
EXP. JT.	51+03.09	33.25	611.07	611.07
BK. E. ABUT.	51+05.15	33.25	611.05	611.05



DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

TOP OF SLAB ELEVATIONS III
STRUCTURE NUMBER 016-0610

DLZ 85 W. Algonquin Rd. Ste. 220
Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

SHEET NO. 10 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	86
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST APPROACH

EAST APPROACH

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	48+60.45	-25.00	611.99
A1	48+70.45	-25.00	611.99
A2	48+80.45	-25.00	611.99
A3	48+90.45	-25.00	612.01
E. End of W. Approach	49+00.45	-25.00	612.03

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	48+83.84	2.08	612.46
A1	48+93.84	2.08	612.47
A2	49+03.84	2.08	612.50
A3	49+13.84	2.08	612.54
E. End of W. Approach	49+23.84	2.08	612.59

NORTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	50+54.83	-25.00	611.78
A4	50+64.83	-25.00	611.67
A5	50+74.83	-25.00	611.55
A6	50+84.83	-25.00	611.43
E. End of E. Approach	50+94.83	-25.00	611.32

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	50+78.24	2.08	611.96
A4	50+88.24	2.08	611.85
A5	50+98.24	2.08	611.74
A6	51+08.24	2.08	611.64
E. End of E. Approach	51+18.24	2.08	611.55

CL BRIDGE & CL RDWY

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	48+82.04	0.00	612.49
A1	48+92.04	0.00	612.51
A2	49+02.04	0.00	612.54
A3	49+12.04	0.00	612.57
E. End of W. Approach	49+22.04	0.00	612.61

SOUTH EDGE OF LANE

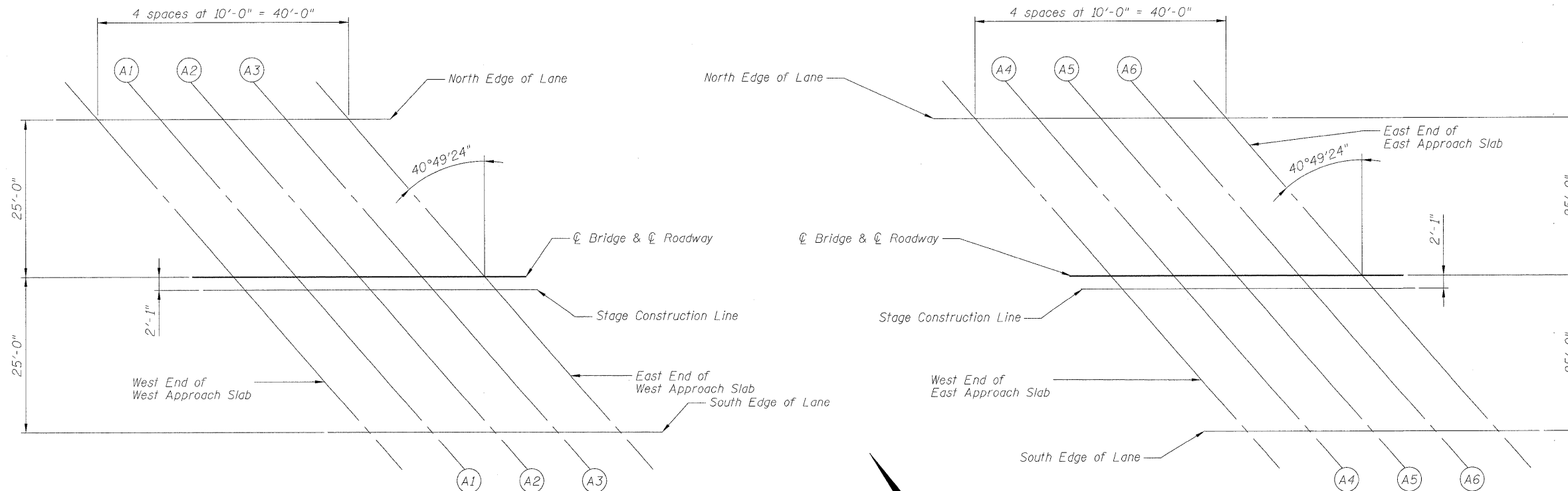
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Approach	49+03.64	25.00	612.04
A1	49+13.64	25.00	612.08
A2	49+23.64	25.00	612.13
A3	49+33.64	25.00	612.17
E. End of W. Approach	49+43.64	25.00	612.20

CL BRIDGE & CL RDWY

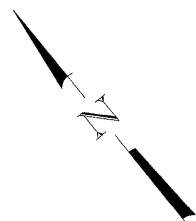
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	50+76.43	0.00	612.03
A4	50+86.43	0.00	611.91
A5	50+96.43	0.00	611.80
A6	51+06.43	0.00	611.70
E. End of E. Approach	51+16.43	0.00	611.61

SOUTH EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Approach	50+98.03	25.00	611.28
A4	51+08.03	25.00	611.18
A5	51+18.03	25.00	611.10
A6	51+28.03	25.00	611.02
E. End of E. Approach	51+38.03	25.00	610.95



DESIGNED - ASP
CHECKED - DPW
DRAWN - BEM
CHECKED - ASP

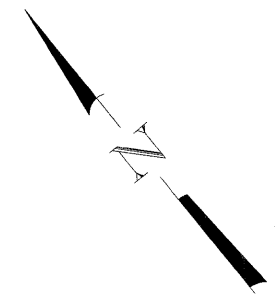


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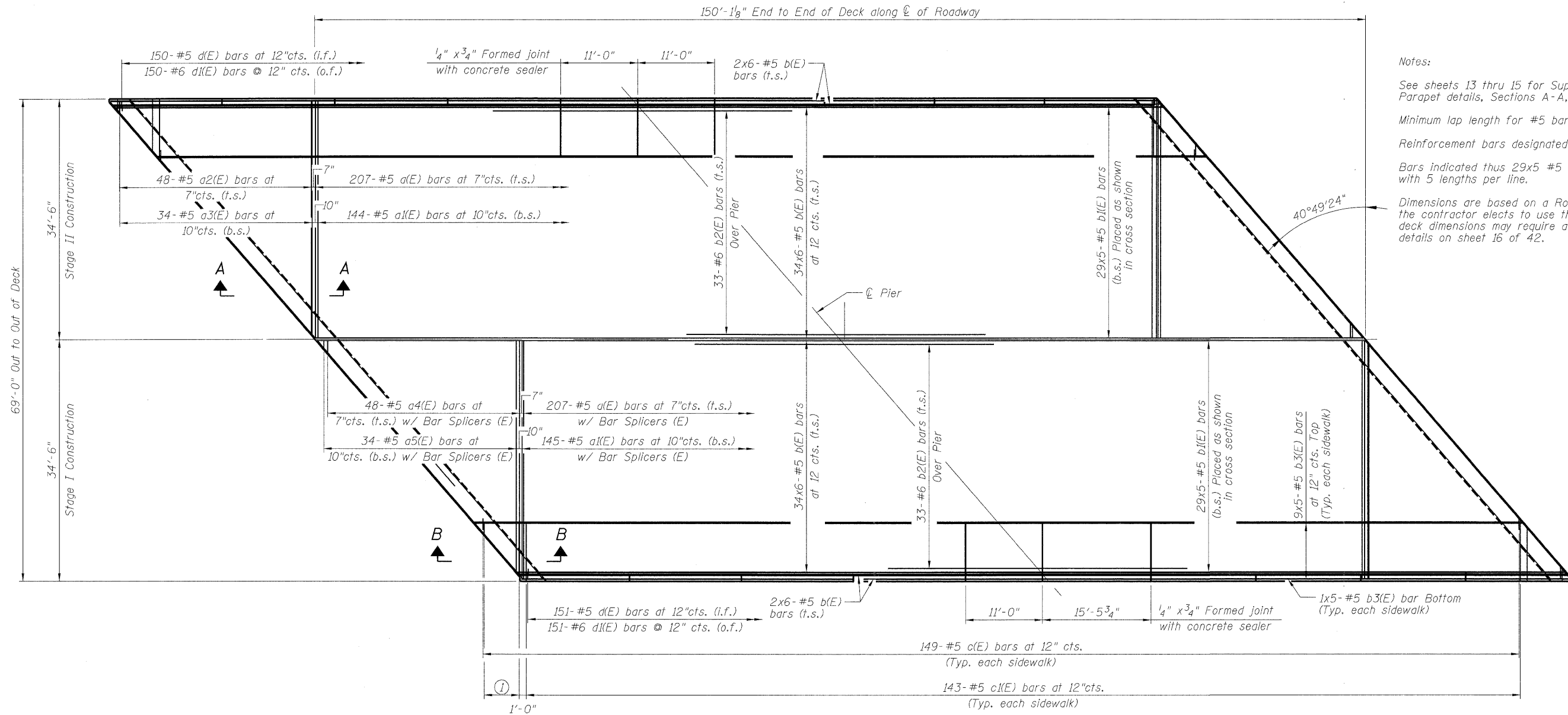
SHEET NO. 11 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	87
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NUMBER 016-0610

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Order a2(E), a3(E), a4(E), a5(E) and c2(E) bars full length. Cut to fit skew and use remainder of bars in opposite end on same side of stage construction line.



Notes:
See sheets 13 thru 15 for Superstructure details, Parapet details, Sections A-A, B-B, and Bill of Materials.
Minimum lap length for #5 bars = 2'-2".
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 29x5 #5 etc. indicates 29 lines of bars with 5 lengths per line.
Dimensions are based on a Rolled Rail Strip Seal Joint. If the contractor elects to use the Welded Strip Seal Joint, deck dimensions may require adjustment to satisfy the details on sheet 16 of 42.

① 6-#5 c2(E) bars at 12" cts. (Typ. each sidewalk)

PLAN BRIDGE DECK

LEGEND

f.s. denotes top of slab
b.s. denotes bottom of slab
i.f. denotes inside face of parapet
o.f. denotes outside face of parapet

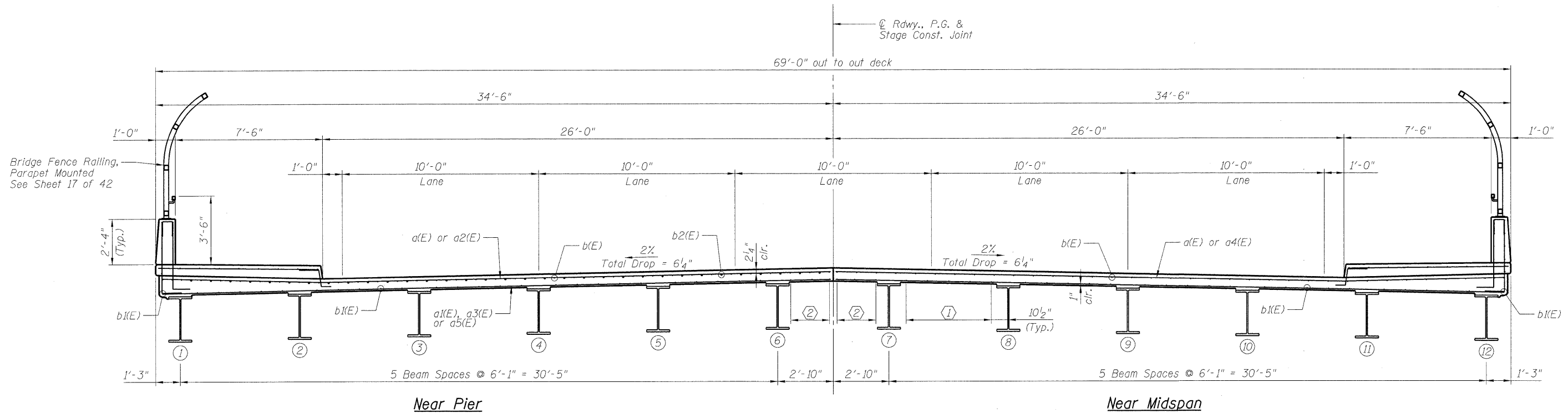
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

SUPERSTRUCTURE PLAN
STRUCTURE NUMBER 016-0610

DLZ 85 W. Algonquin Rd. Ste. 220
Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

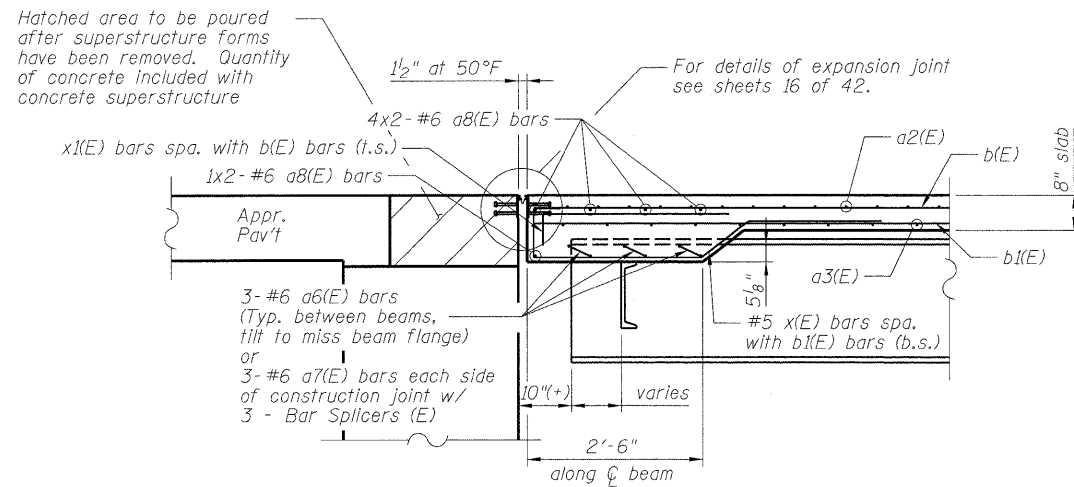
SHEET NO. 12 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	88
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

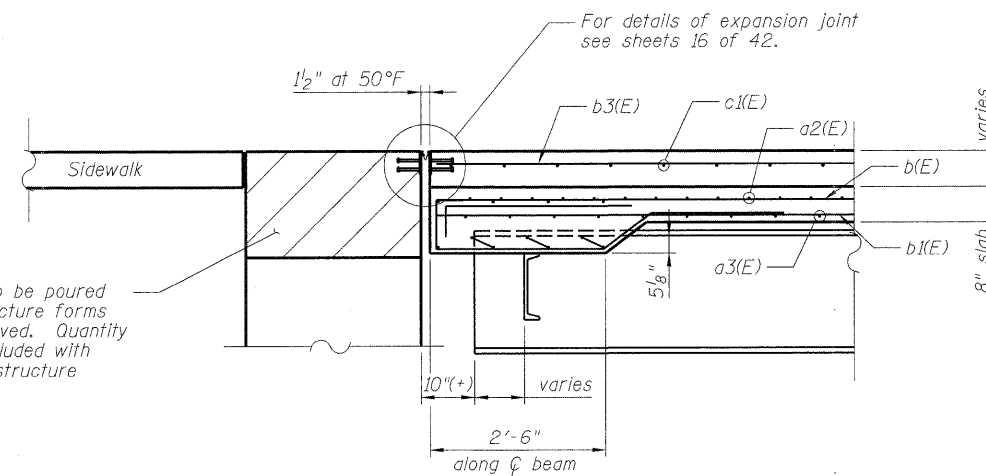


CROSS SECTION
(Looking Ahead Station)

- ① 5- #5 b1(E) bars at 1'-1" cts. (Typ. between beams)
5- #6 x(E) bars at 1'-1" cts. (Typ. between beams)
- ② 3- #5 b1(E) bars
3- #6 x(E) bars



SECTION A-A



SECTION B-B

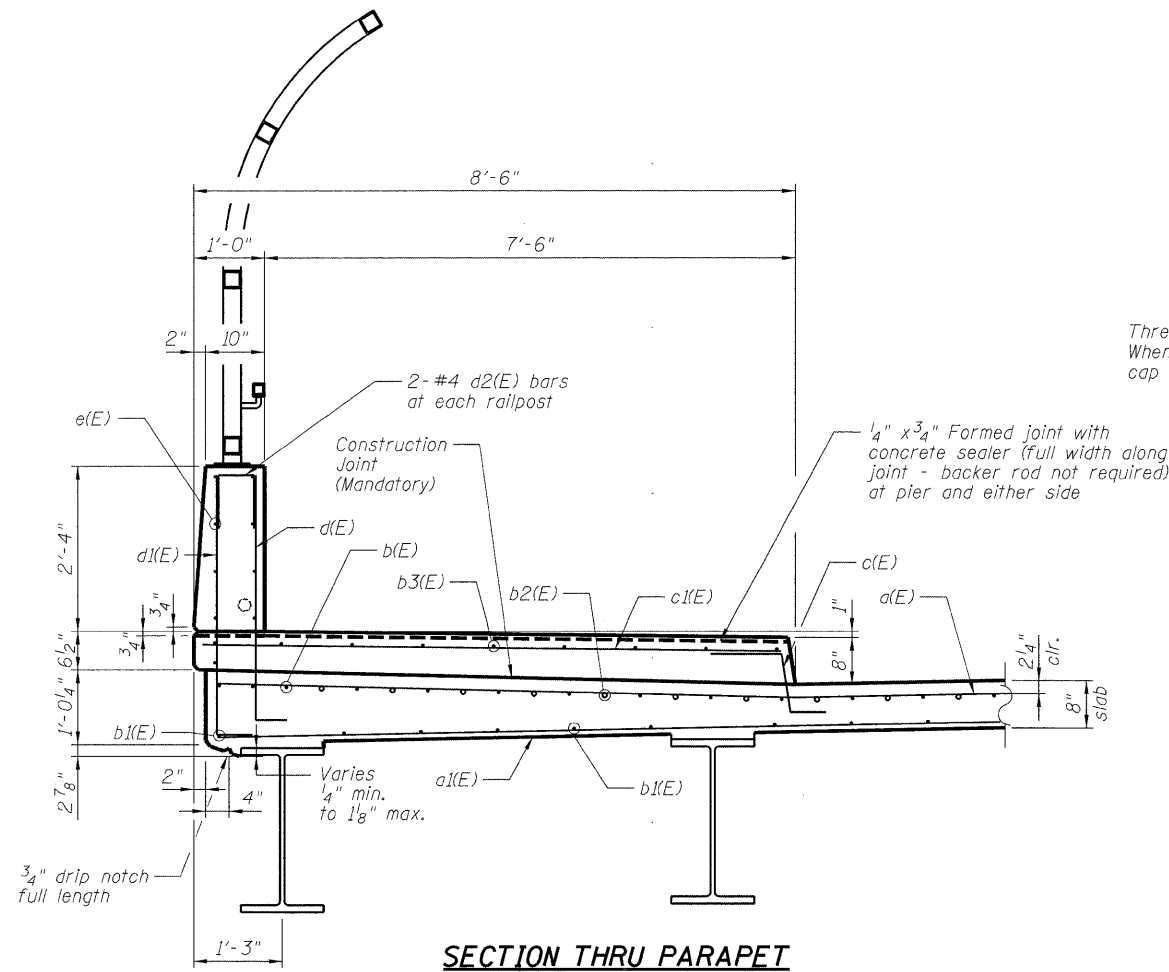
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

SUPERSTRUCTURE CROSS-SECTION
STRUCTURE NUMBER 016-0610

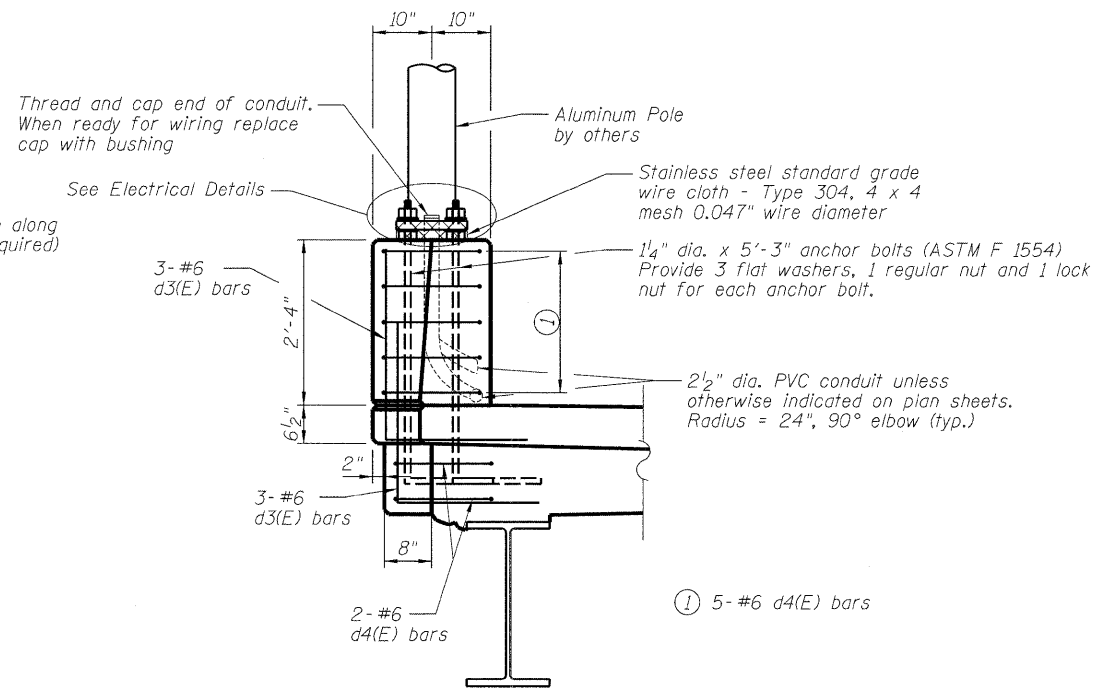
DLZ 85 W. Algonquin Rd. Ste. 220
Arlington Heights IL 60005
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DLZ Illinois, Inc.

SHEET NO. 13 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 89
	CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT					

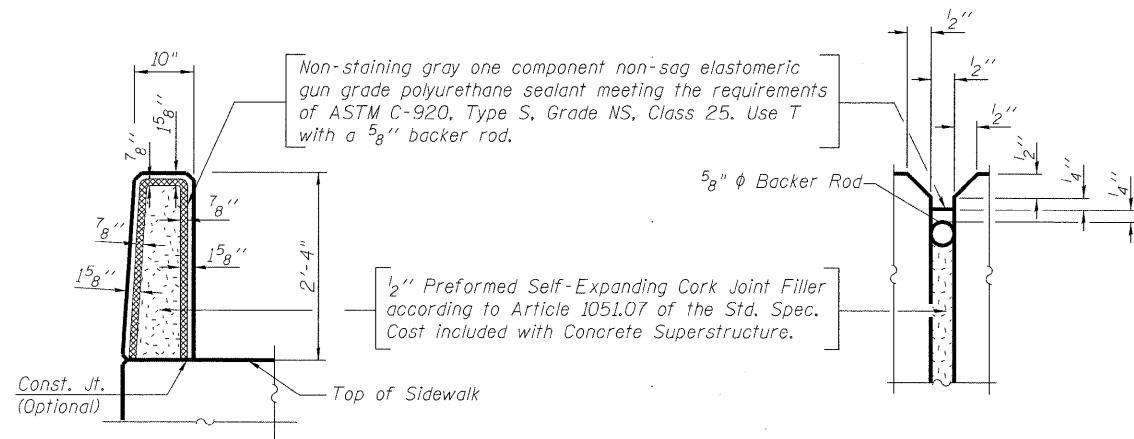
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



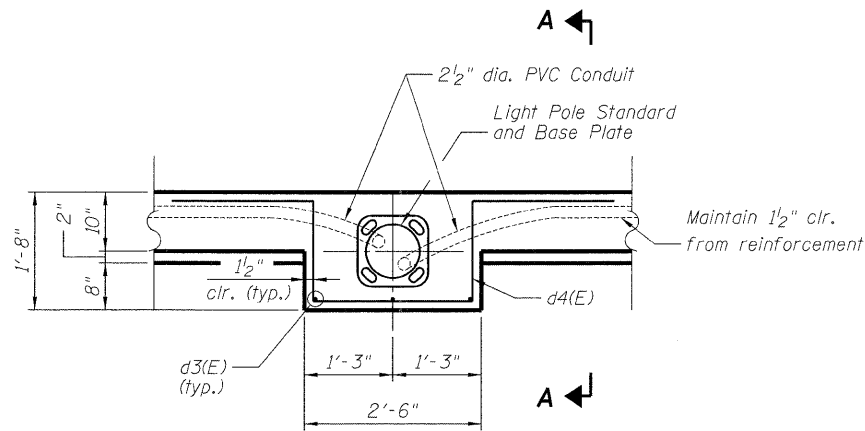
SECTION THRU PARAPET



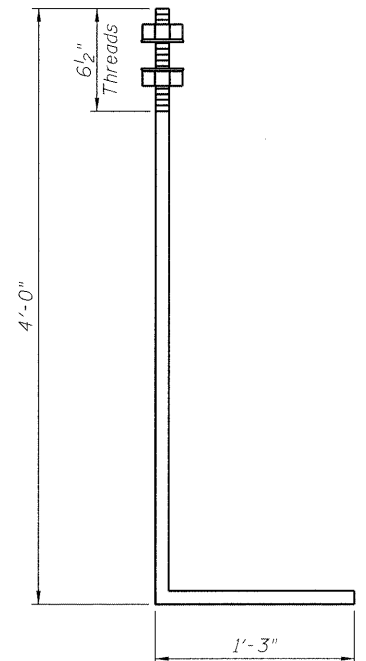
VIEW A-A



PARAPET JOINT DETAILS



LIGHT POLE MOUNTING PLAN



1/4" DIA. ANCHOR BOLT

Notes:

- Level light pole plates, using the flange nuts, prior to pouring the parapet wall. The top of the plate shall be at the same elevation as the finished concrete parapet.
- The cost of anchor bolts, conduit, base plate and foundation is included in the cost of Concrete Superstructure.

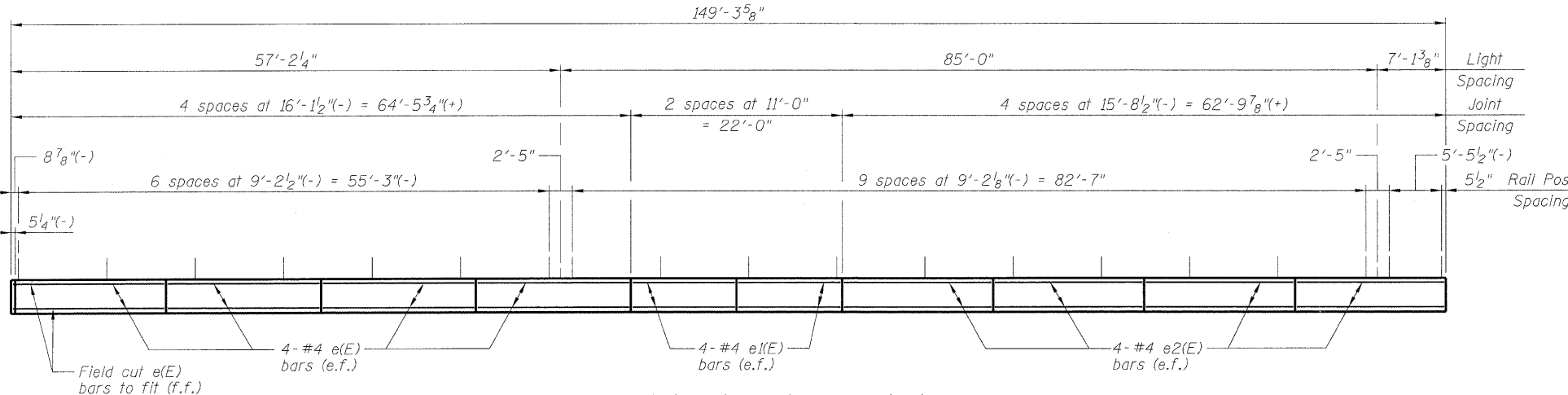
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

DLZ 85 W. Algonquin Rd. Ste. 220
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DLZ Illinois, Inc. (847)-640-0840

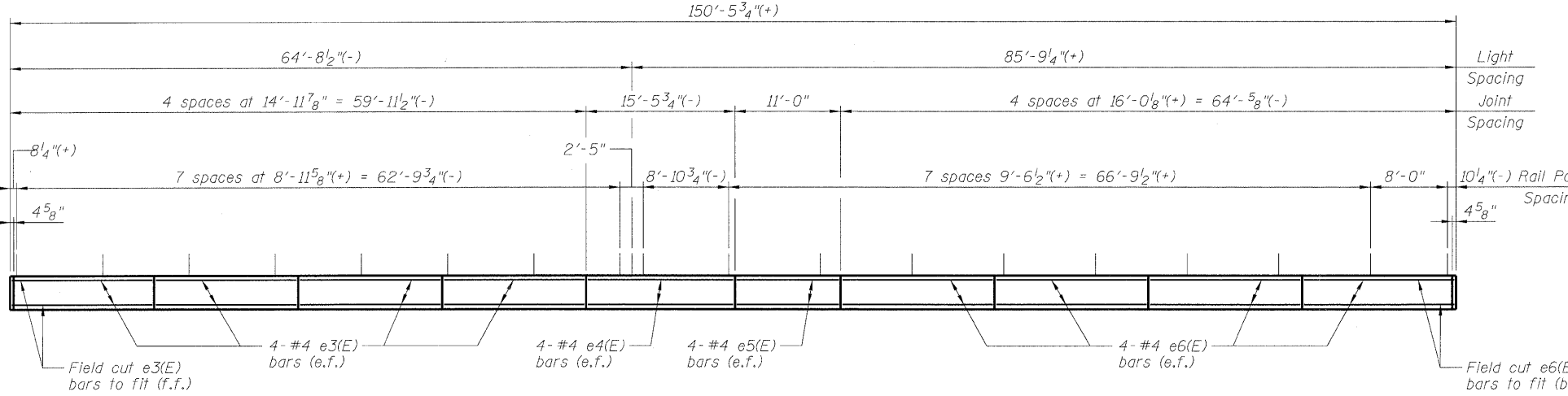
SHEET NO. 14 OF 42 SHEETS	F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	90
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

**PARAPET & SIDEWALK DETAILS
STRUCTURE NUMBER 016-0610**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

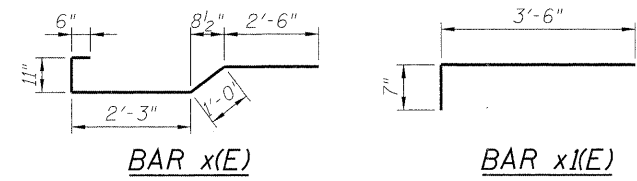


INSIDE ELEVATION OF NORTH PARAPET
(Looking North)



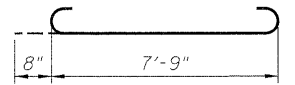
INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)

LEGEND
f.f. denotes front face
b.f. denotes back face
e.f. denotes each face

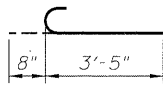


BAR x(E)

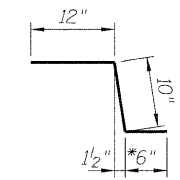
BAR x1(E)



BAR a6(E)

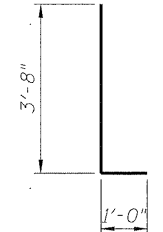


BAR a7(E)

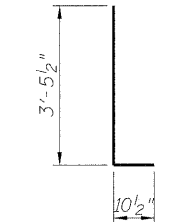


BAR c(E)

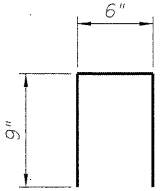
* In lieu of bottom leg, c(E) bars may be cored and set according to Article 509.06 of the Standard Specifications. Cored holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of cored hole shall not exceed 6"



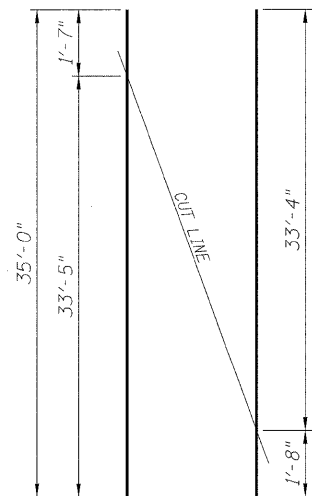
BAR d1(E)



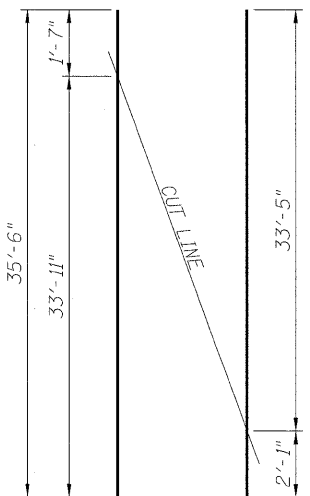
BAR d(E)



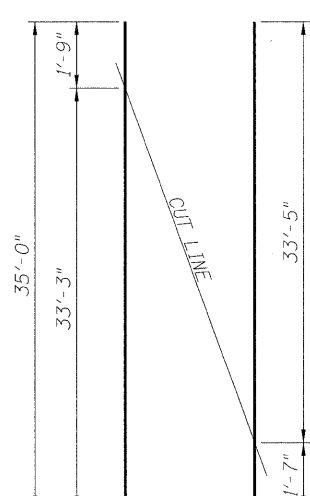
BAR d2(E)



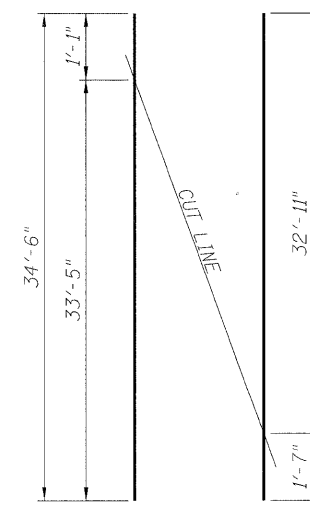
BARS a2(E)
48 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)



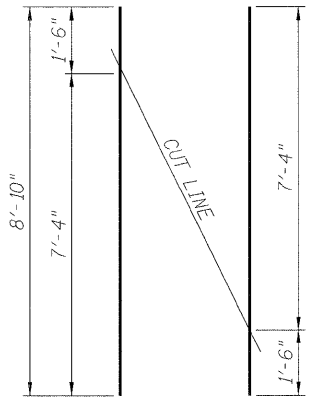
BARS a3(E)
34 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)



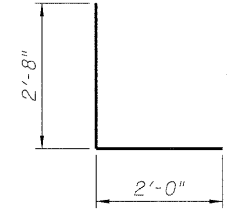
BARS a4(E)
48 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)



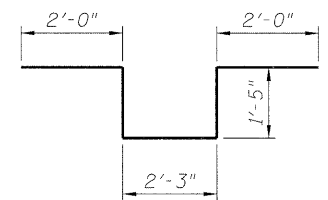
BARS a5(E)
34 BARS - 1 SET
(USE REMAINDER OF BARS AT OPPOSITE END)



BARS c2(E)
6 BARS - 2 SETS
(USE REMAINDER OF BARS AT OPPOSITE END)



BAR d3(E)



BAR d4(E)

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	414	5	34'-0"	—
a1(E)	289	5	34'-0"	—
a2(E)	48	5	35'-0"	—
a3(E)	34	5	35'-6"	—
a4(E)	48	5	35'-0"	—
a5(E)	34	5	34'-6"	—
a6(E)	60	6	9'-1"	U
a7(E)	12	6	4'-1"	U
a8(E)	20	6	44'-10"	—
b(E)	432	5	26'-9"	—
b1(E)	290	5	31'-8"	—
b2(E)	66	6	42'-9"	—
b3(E)	100	5	31'-9"	—
c(E)	298	5	2'-4"	—
c1(E)	286	5	8'-2"	—
c2(E)	12	5	8'-10"	—
d(E)	301	5	4'-4"	—
d1(E)	301	6	4'-8"	—
d2(E)	74	4	2'-0"	—
d3(E)	18	6	4'-8"	—
d4(E)	21	6	9'-1"	—
e(E)	32	4	15'-9"	—
e1(E)	16	4	10'-7"	—
e2(E)	32	4	15'-4"	—
e3(E)	32	4	14'-7"	—
e4(E)	8	4	15'-1"	—
e5(E)	8	4	10'-7"	—
e6(E)	32	4	15'-7"	—
x(E)	116	5	7'-2"	—
x1(E)	136	5	4'-1"	—
Concrete Superstructure			Cu. Yd.	372.4
Bridge Deck Grooving			Sq. Yd.	892
Protective Coat			Sq. Yd.	1,287
Reinforcement Bars, Epoxy Coated			Pound	72,596
Bar Splicers			Each	448
Bridge Fence Railing			Foot	299
Name Plates			Each	1
Removal of Asbestos Cement Conduit			Foot	918

BARS INDICATED THUS 7 X 4-#5 ETC. INDICATES 7 LINES OF BARS WITH 4 LENGTHS PER LINE.

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

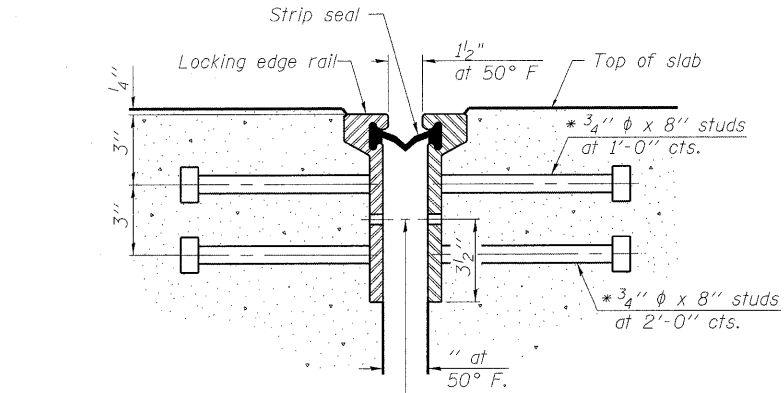
**REINFORCEMENT & DETAILS
STRUCTURE NUMBER 016-0610**

SHEET NO. 15 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	91
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					

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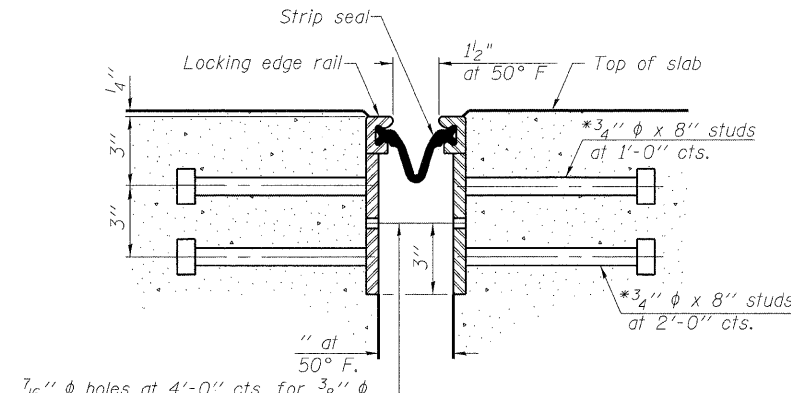
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



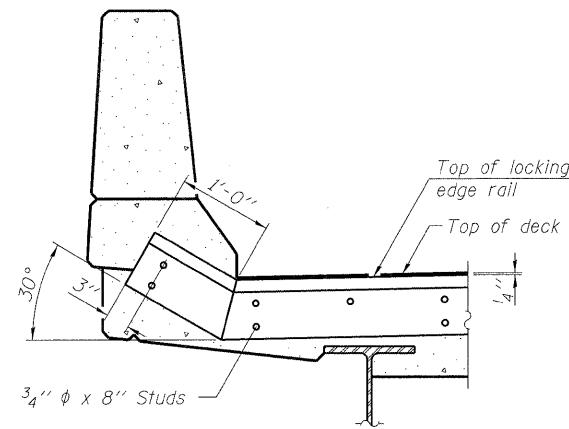
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU
ROLLED RAIL JOINT



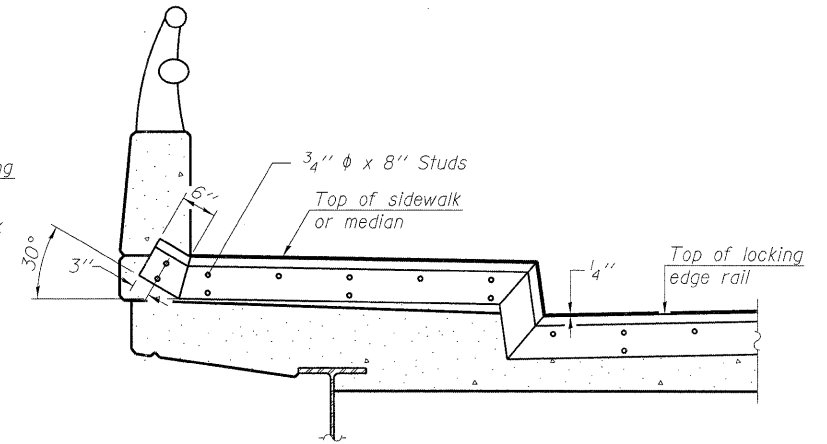
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU
WELDED RAIL JOINT



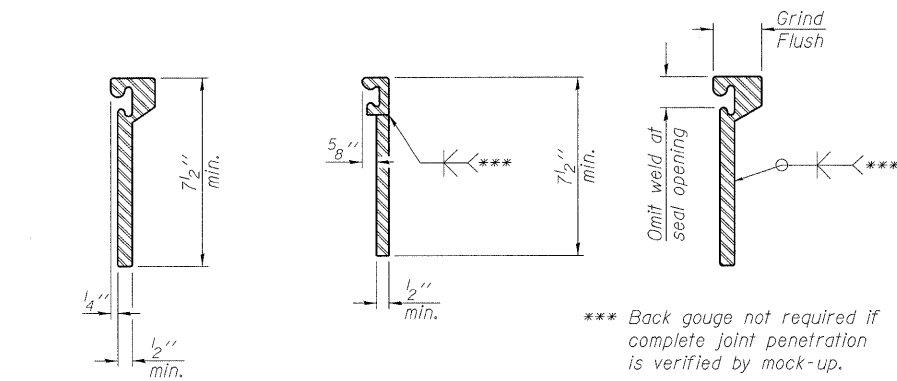
AT PARAPET

See Section A-A for end treatment of skews > 30°.



AT SIDEWALK OR MEDIAN

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

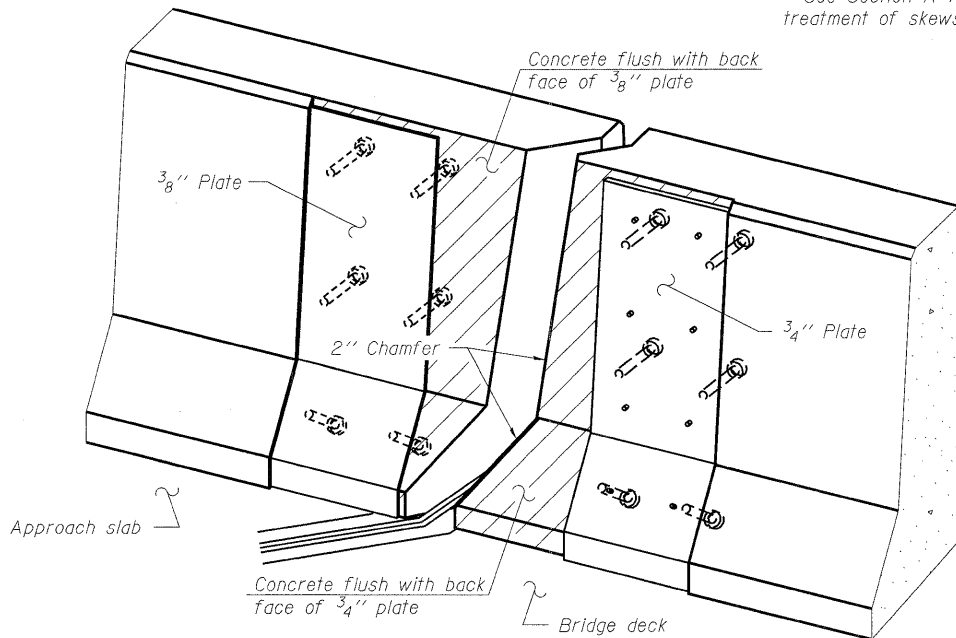


ROLLLED
EXTRUDED RAIL

WELDED RAIL

LOCKING EDGE
RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.
Rolled rail shown, welded rail similar.



TYPICAL END TREATMENTS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

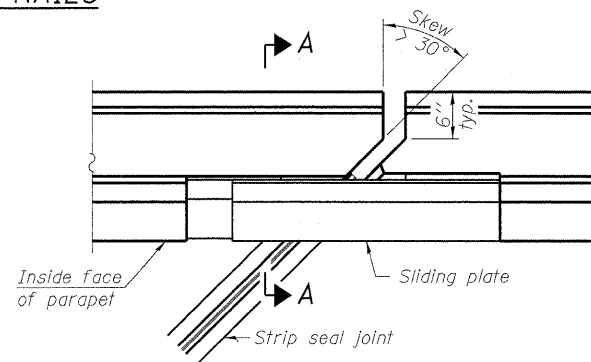
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

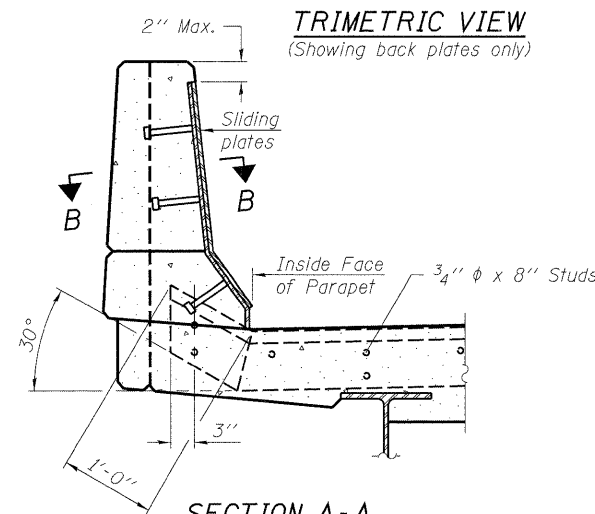
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

LOCKING EDGE RAILS

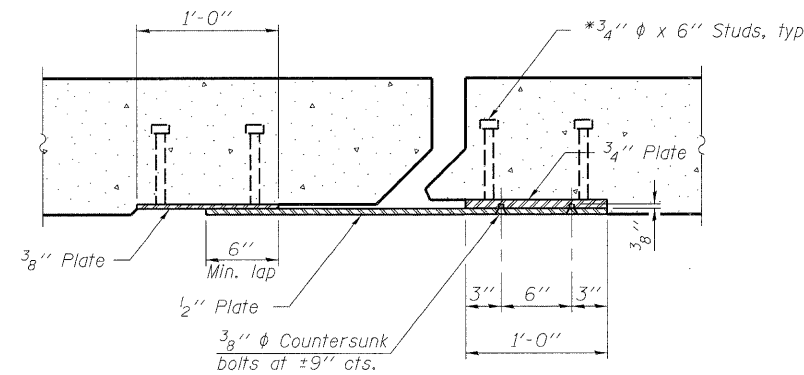


PLAN



SECTION A-A

POINT BLOCK DETAILS
(for skews > 30°)



SECTION B-B

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	182

PREFORMED JOINT STRIP SEAL
STRUCTURE NUMBER 016-0610

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

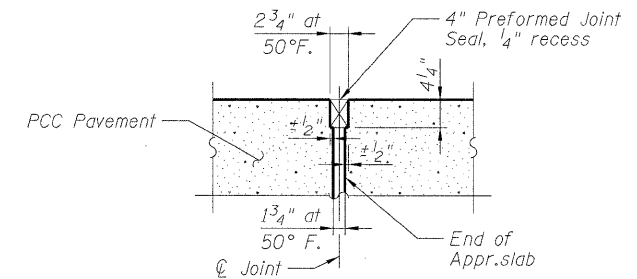
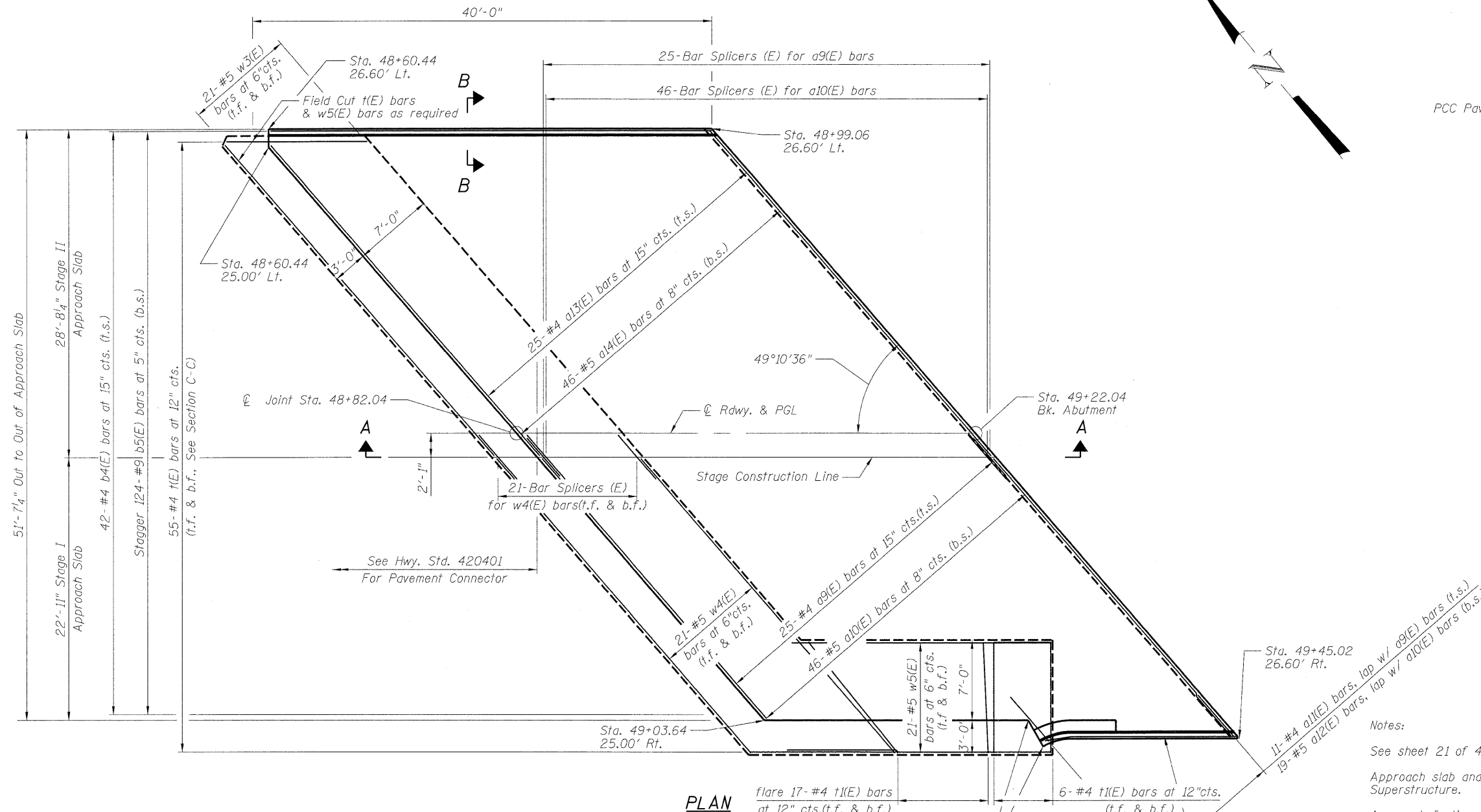
EJ-SSJ

11-1-09

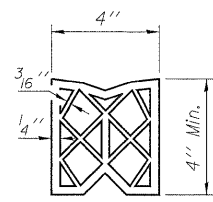
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DLZ Illinois, Inc. (847)-640-0840

SHEET NO. 16 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 92
					CONTRACT NO. 60C18
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

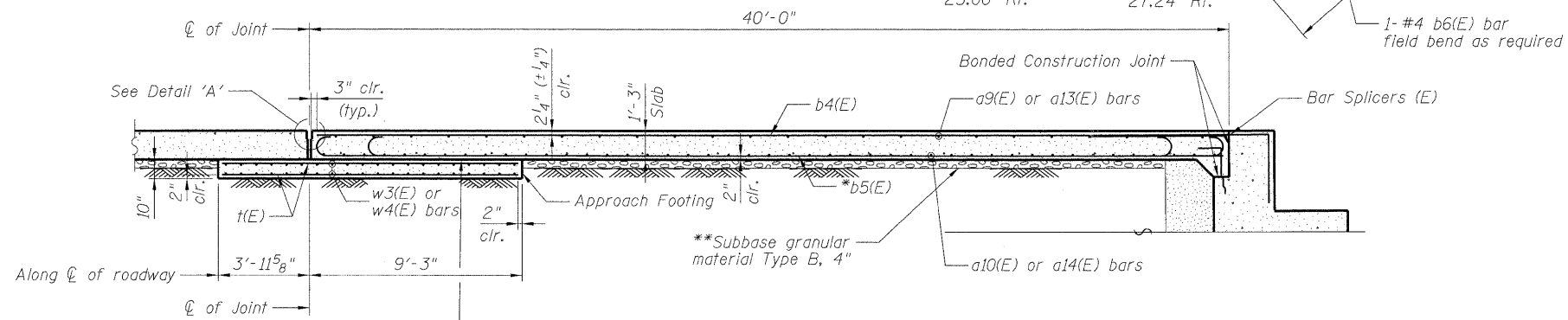


DETAIL 'A'



PREFORMED JOINT SEAL

PLAN



SECTION A-A

LEGEND
b.s. denotes bottom of slab
t.s. denotes top of slab
b.f. denotes bottom of footing
t.f. denotes top of footing

DESIGNED - DPW
CHECKED - ASP
DRAWN - BEM
CHECKED - ASP

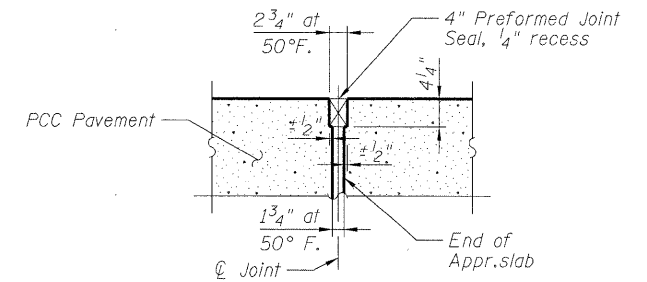
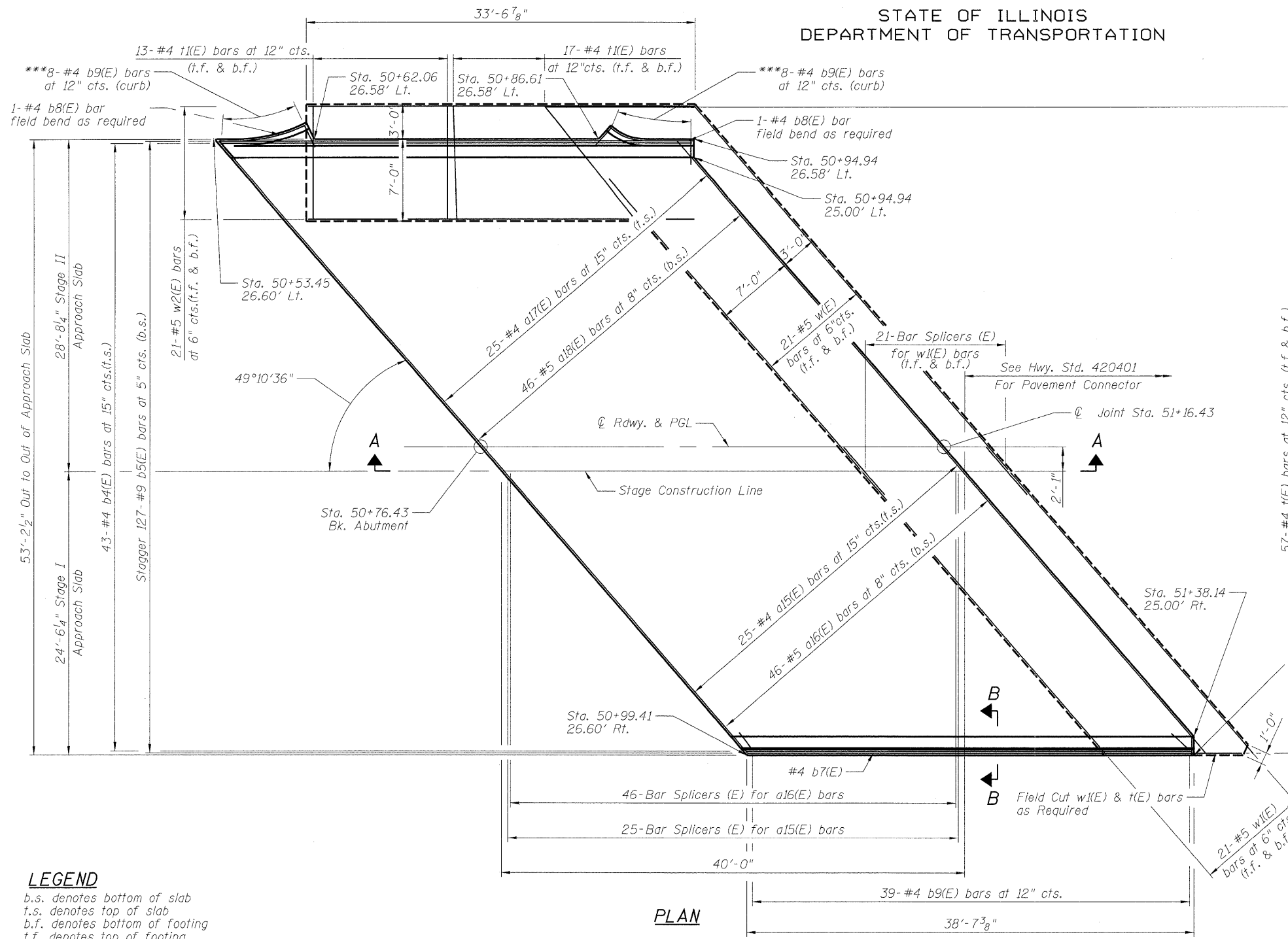
- Notes:
- See sheet 21 of 42 for end section, Bar detailing and bill of materials.
 - Approach slab and curb concrete shall be paid for as Concrete Superstructure.
 - Approach footing concrete shall be paid for as Concrete Structures.
 - Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 - The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0ksf.
 - For details of Bar Splicers, see sheet 40 of 42.
 - Cost of excavation for approach footing included with Concrete Structures.
 - Cost of preformed joint seal included with Concrete Superstructure.
 - For Pours Granular Embankment (Special), see sheet 25 of 42.
 - Minimum lap length for #4 bars = 2'-0".
 - Minimum lap length for #5 bars = 2'-6".
 - Reinforcement bars designated (E) shall be epoxy coated.

* Tilt #9 b5(E) bars as required to maintain clearance.
** Cost Included with Concrete Superstructure.

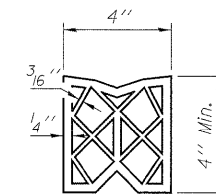
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SHEET NO. 18 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	94
CONTRACT NO. 60C18					
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Detail 'A'



PREFORMED
JOINT SEAL

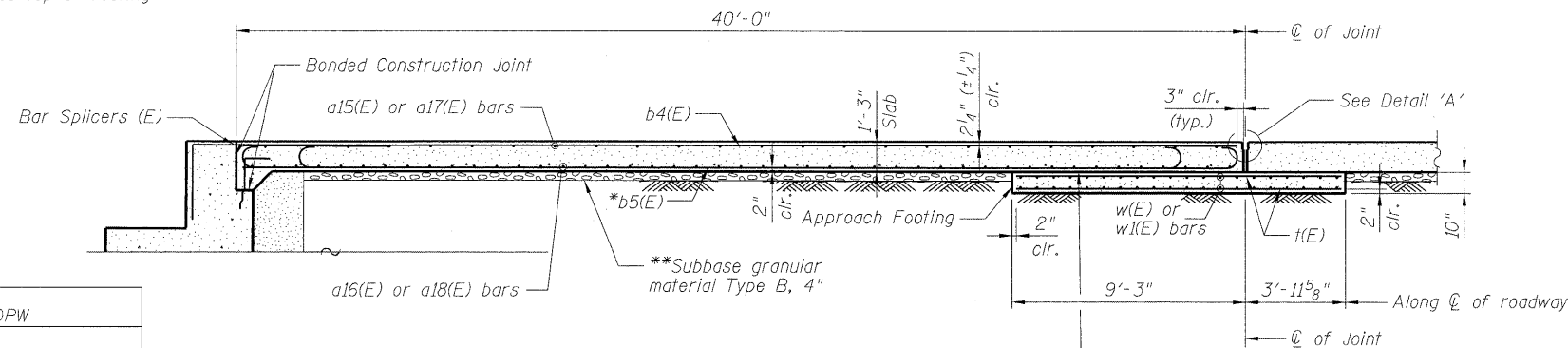
Notes:

- See sheet 21 of 42 for end section, Bar detailing and bill of materials.
- Approach slab and curb concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0ksf.
- For details of Bar Splicers, see sheet 40 of 42.
- Cost of excavation for approach footing included with Concrete Structures.
- Cost of preformed joint seal included with Concrete Superstructure.
- For Poured Granular Embankment (Special), see sheet 30 of 42.
- Minimum lap length for #4 bars = 2'-0".
- Minimum lap length for #5 bars = 2'-6".
- Reinforcement bars designated (E) shall be epoxy coated.

LEGEND

b.s. denotes bottom of slab
t.s. denotes top of slab
b.f. denotes bottom of footing
t.f. denotes top of footing

PLAN



SECTION A-A

* Tilt #9 b5(E) bars as required to maintain clearance.
**Cost Included with Concrete Superstructure.
***Tilt #4 b9(E) bars as required to maintain clearance

**10 mil. Polyethylene bond breaker on steel trowel finish

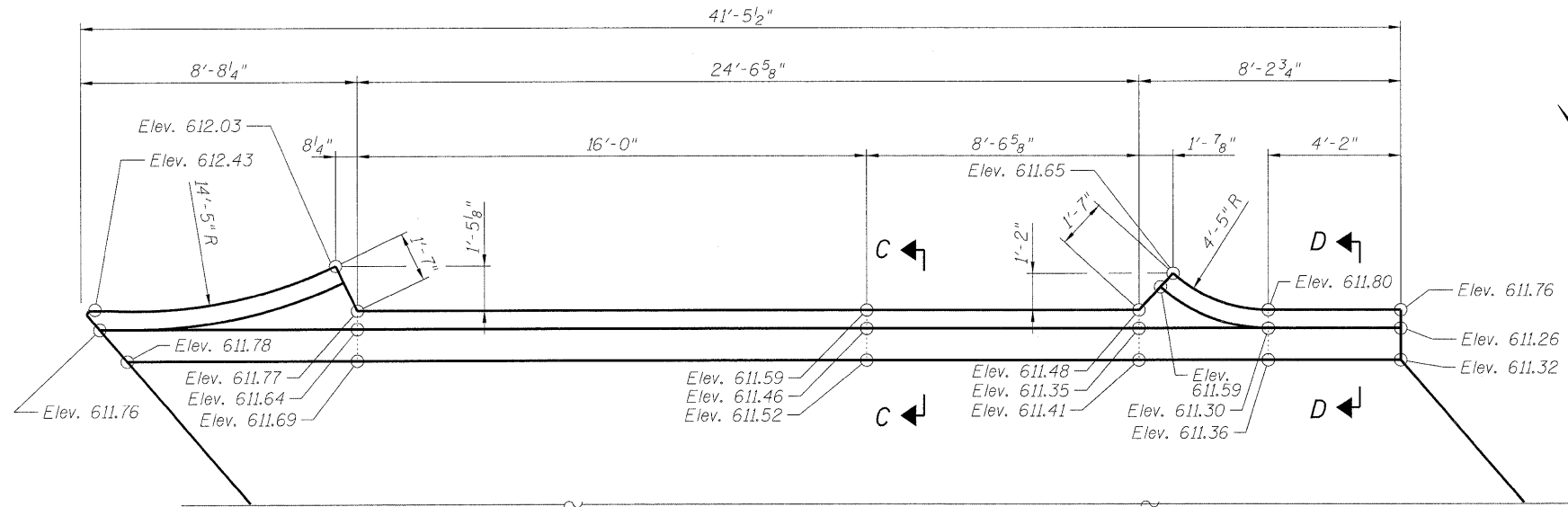
DESIGNED - DPW
CHECKED - ASP
DRAWN - BEM
CHECKED - ASP

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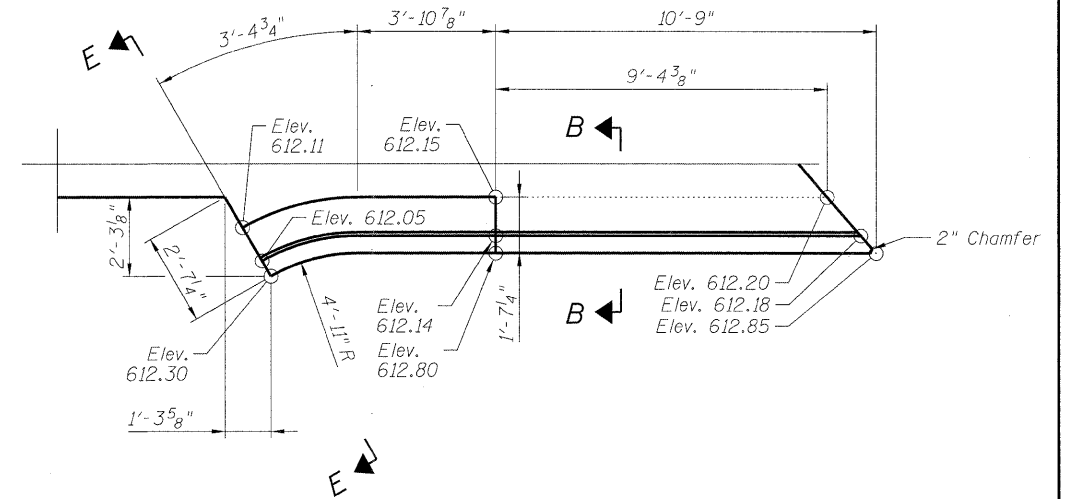
EAST APPROACH SLAB
STRUCTURE NUMBER 016-0610

SHEET NO. 19 OF 42 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	95
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					

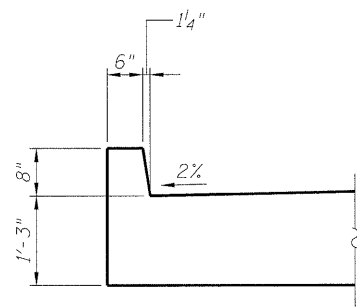
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



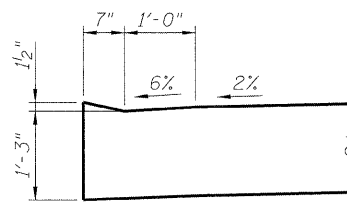
NORTHEAST PLAN



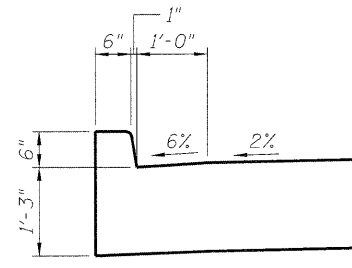
SOUTHWEST PLAN



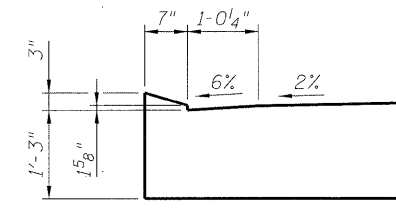
SECTION B-B



SECTION C-C



SECTION D-D



SECTION E-E

DESIGNED - DPW
CHECKED - ASP
DRAWN - LNB
CHECKED - ASP

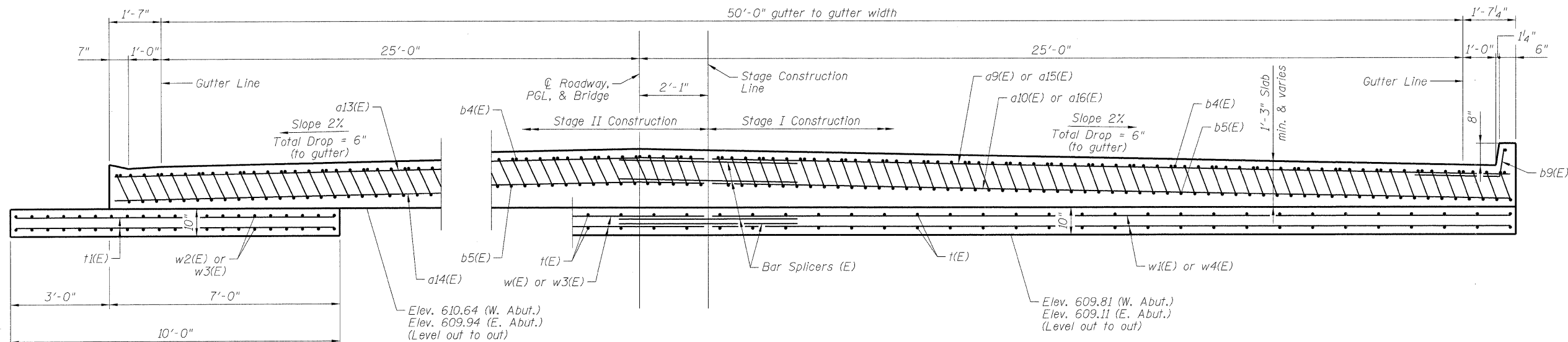
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Arlington Heights IL 60005
DLZ Illinois, Inc. (847)-640-0840

APPROACH DETAILS I
STRUCTURE NUMBER 016-0610

SHEET NO. 20 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 96
	CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
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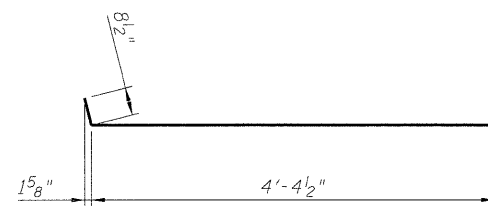
TWO APPROACHES
BILL OF MATERIAL



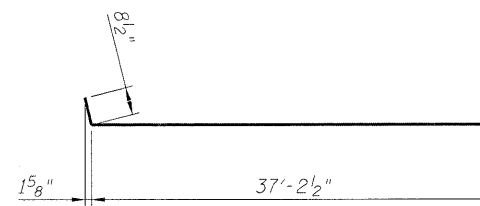
Bar	No.	Size	Length	Shape
a9(E)	25	4	29'-10"	—
a10(E)	46	5	29'-10"	—
a11(E)	11	4	5'-1"	—
a12(E)	19	5	5'-2"	—
a13(E)	25	4	37'-11"	—
a14(E)	46	5	37'-6"	—
a15(E)	25	4	32'-1"	—
a16(E)	46	5	32'-1"	—
a17(E)	25	4	37'-6"	—
a18(E)	46	5	37'-6"	—
b4(E)	85	4	39'-6"	—
b5(E)	251	9	39'-8"	—
b6(E)	1	4	16'-8"	—
b7(E)	1	4	38'-3"	—
b8(E)	2	4	7'-6"	—
b9(E)	55	4	2'-9"	—
t(E)	224	4	12'-9"	—
t(E)	106	4	9'-8"	—
w(E)	42	5	41'-6"	—
w1(E)	42	5	32'-1"	—
w2(E)	42	5	33'-4"	—
w3(E)	42	5	36'-8"	—
w4(E)	42	5	33'-10"	—
w5(E)	42	5	23'-0"	—
Concrete Structures		Cu. Yd.	57.7	
Concrete Superstructures		Cu. Yd.	199.5	
Bridge Deck Grooving		Sq. Yd.	463	
Protective Coat		Sq. Yd.	476	
Reinforcement Bars, Epoxy Coated		Pound	56,616	
Bar Splicers		Each	226	

AT ENTRANCE

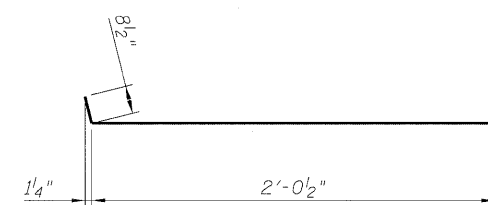
AT APPROACH FOOTING



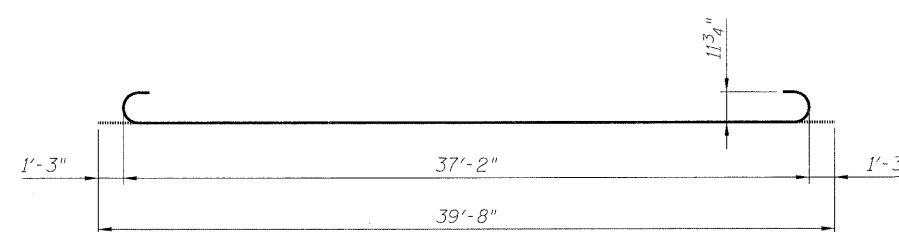
BAR a11(E)



BAR a13(E)



BAR b9(E)



BAR b5(E)

Notes:

- Quantities in Bill of Material above are for two Approach Slabs.
- Approach slab and curb concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For details of Bar Splicers, see sheet 40 of 42.

DESIGNED - DPW
CHECKED - ASP
DRAWN - LNB
CHECKED - ASP

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SHEET NO. 21 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 97
	CONTRACT NO. 60C18				
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APPROACH DETAILS II
STRUCTURE NUMBER 016-0610

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NOTES

D1 denotes interior diaphragm.

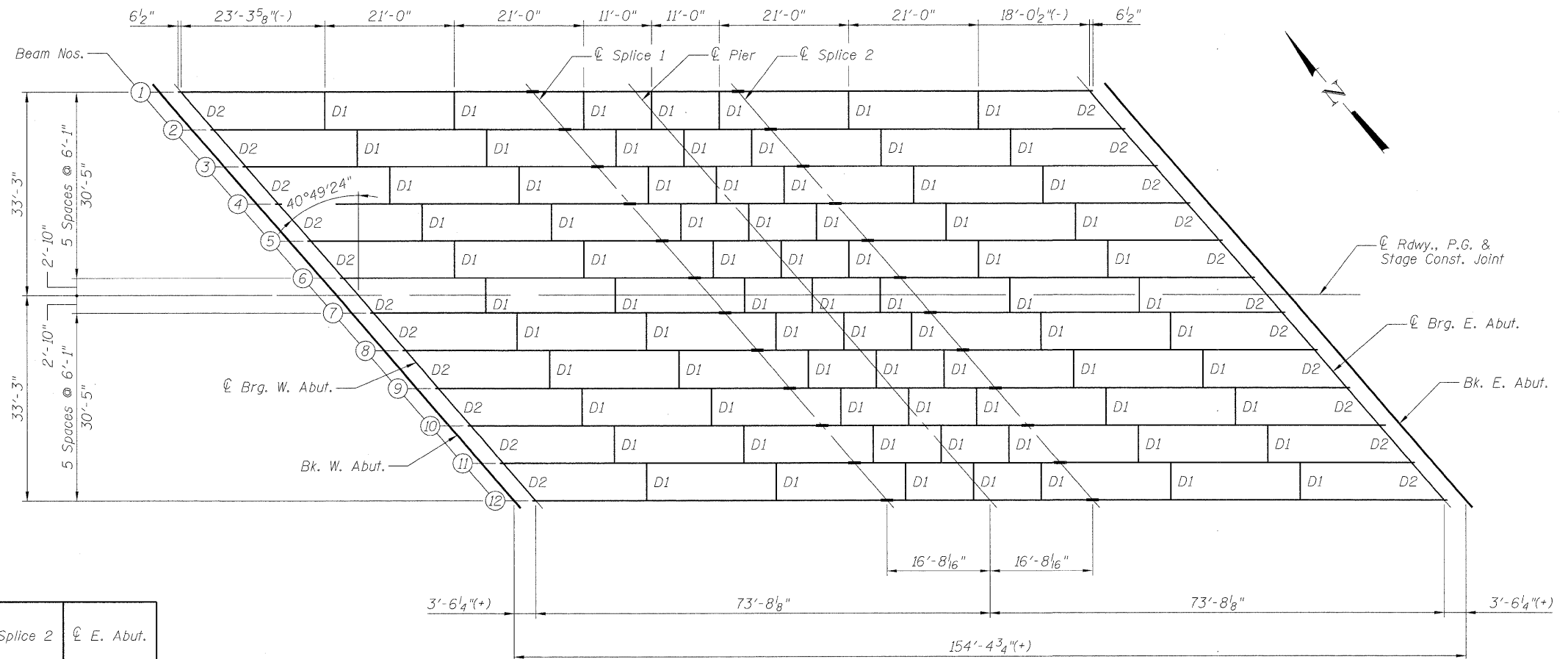
D2 denotes diaphragm at abutments.

See Sheet 23 of 42 for Field Splice and Diaphragm Details.

Wide flange beams shall be M270 Grade 50 Steel.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

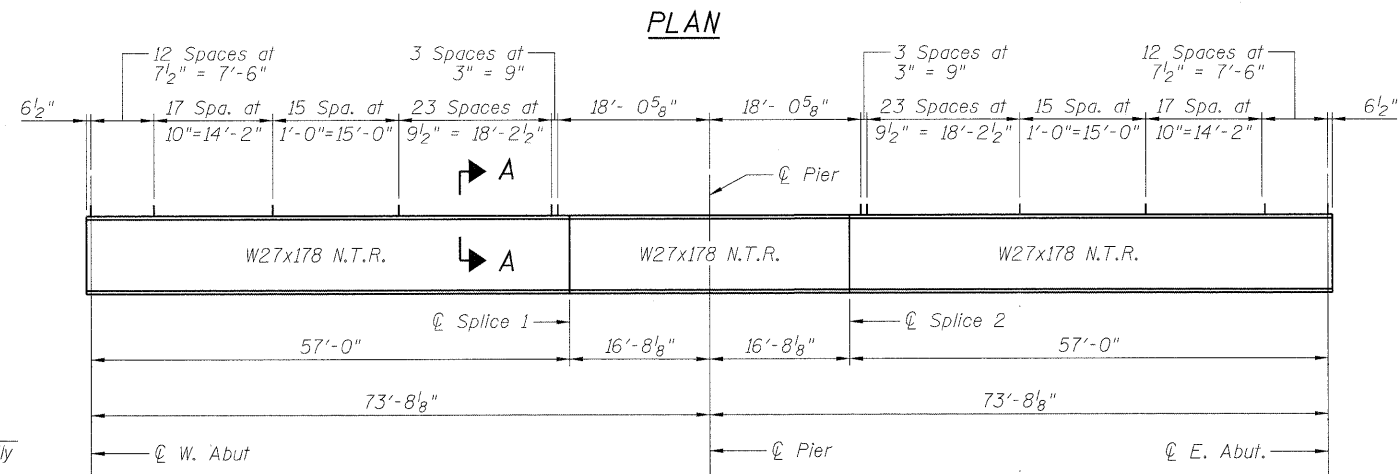
All structural steel shall be hot dip galvanized in accordance with the Special Provision for "Hot Dip Galvanizing for Structural Steel."



*** TOP OF BEAM ELEVATIONS**

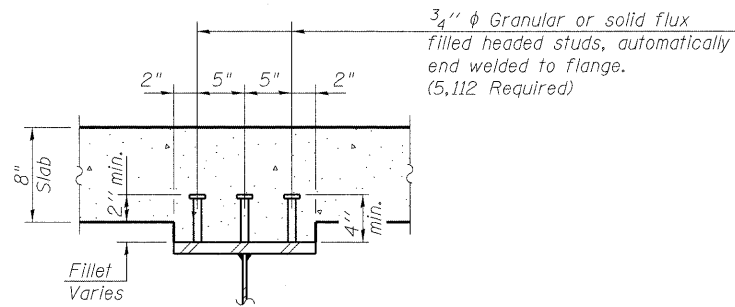
Beam	Location	℄ W. Abut.	℄ Splice 1	℄ Pier	℄ Splice 2	℄ E. Abut.
Beam # 1 Elev.		611.132	611.282	611.277	611.268	610.995
Beam # 2 Elev.		611.272	611.414	611.394	611.375	611.068
Beam # 3 Elev.		611.411	611.538	611.508	611.479	611.138
Beam # 4 Elev.		611.552	611.659	611.619	611.580	611.205
Beam # 5 Elev.		611.696	611.776	611.727	611.678	611.268
Beam # 6 Elev.		611.852	611.891	611.832	611.773	611.329
Beam # 7 Elev.		611.874	611.882	611.813	611.745	611.263
Beam # 8 Elev.		611.773	611.747	611.668	611.590	611.077
Beam # 9 Elev.		611.669	611.609	611.520	611.432	610.893
Beam # 10 Elev.		611.562	611.468	611.369	611.271	610.713
Beam # 11 Elev.		611.452	611.323	611.215	611.105	610.534
Beam # 12 Elev.		611.339	611.176	611.054	610.933	610.354

*Elevations are before any deflections and are to be used for fabrication only.



BEAM ELEVATION

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



SECTION A-A

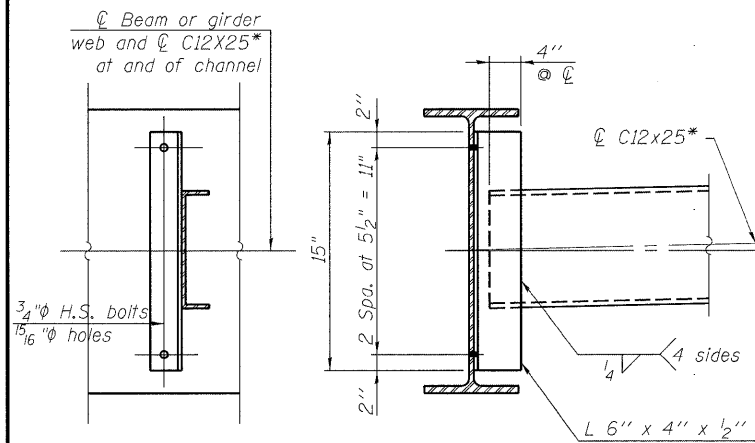
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

**FRAMING PLAN
STRUCTURE NUMBER 016-0610**

SHEET NO. 22 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 98
	CONTRACT NO. 60C18				
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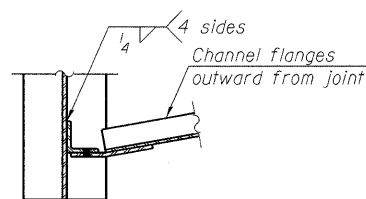
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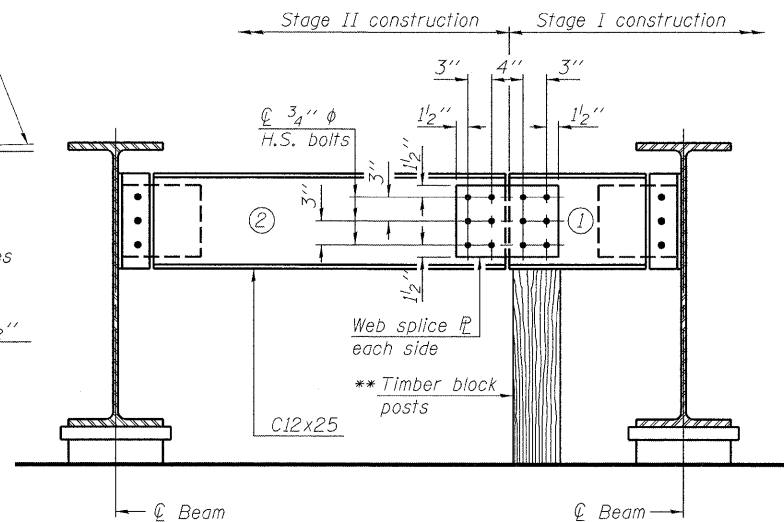
DIAPHRAGM D1
(77 Required)

*C12x30 may be used in lieu C12x25 at no additional cost to the Department. Calculated weight of structural steel is based on the lighter section.

Two hardened washers required for each set of oversized holes.



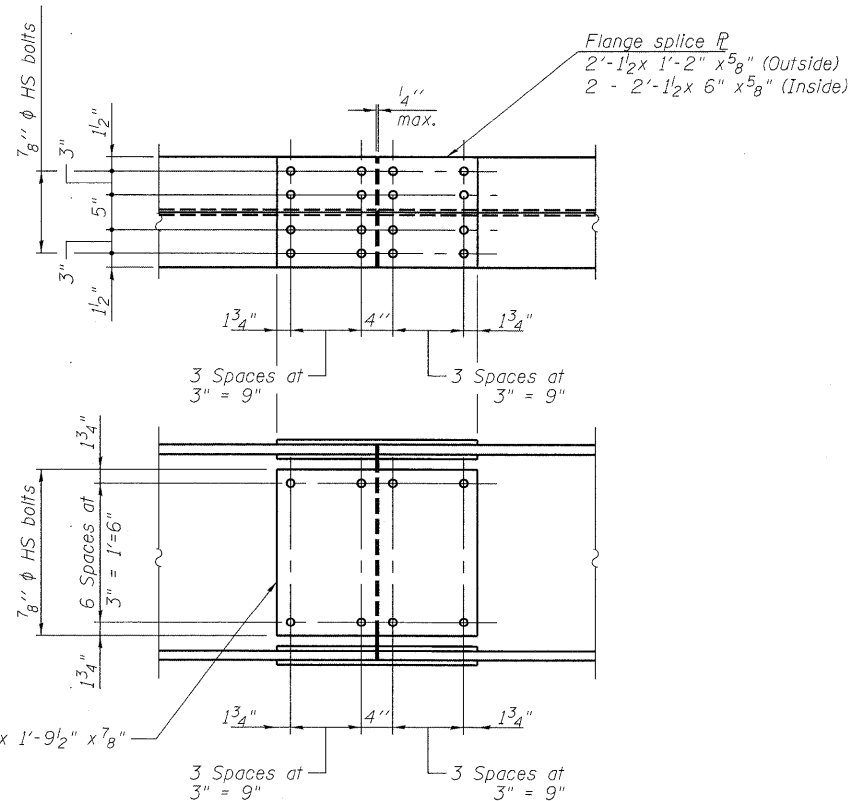
SECTION A-A



DIAPHRAGM D2 STAGE CONSTRUCTION SEQUENCE

- 1.) Order diaphragm in two sections.
- 2.) Attach section ① of diaphragm to beam
- 3.) Place timber block posts between section ① of diaphragm and abutment bearing section.
- 4.) Attach section ② of diaphragm to both beam and section ① of diaphragm during stage II construction with splice plates.
- 5.) Remove timber block posts.

** Cost of Timber Block Posts is included with Structural Steel.



SPLICE

Splice plates shall conform to the Supplemental Requirements for Notch Toughness, Zone 2

All structural steel splice plates shall be M270 Grade 50 steel.

	0.4 Sp. 1 or 0.6 Sp. 2	Pier
I_s	(in ⁴) 6,936	6,936
$I_c(n)$	(in ⁴) 18,715	-
$I_c(3n)$	(in ⁴) 13,103	-
S_s	(in ³) 499	499
$S_c(n)$	(in ³) 6,564	-
$S_c(3n)$	(in ³) 1,627	-
Z	(in ³) -	563
DC1	(k/')	0.934
DC2	(k/')	0.224
MDC1	(k)	357.4
DC2	(k/')	0.224
MDC2	(k)	102.4
DW	(k/')	0.216
MDW	(k)	98.9
$M_L + IM$	(k)	852.9
M_u (Strength I)	(k)	2,215.7
$\phi_r M_n, \phi_r M_{nc}$	(k)	3,360.8
f_s DC1	(ksi)	8.6
f_s DC2	(ksi)	1.9
f_s DW	(ksi)	1.8
f_s 1.3(L+IM)	(ksi)	17.7
f_s (Service II)	(ksi)	30.0
f_s (Total)(Strength I)	(ksi)	-
V_r	(k)	23.9

* Compact sections
** Non-Compact and slender sections

	Abut.	Pier
R_{DC1}	(k) 25.8	85.8
R_{DC2}	(k) 6.8	19.5
R_{DW}	(k) 6.5	18.8
$R_L + IM$	(k) 75.6	128.3
R_{Total}	(k) 114.7	252.4

Note:
All structural steel shall be hot dip galvanized in accordance with the Special Provision for "Hot Dip Galvanizing for Structural Steel."

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).

Z: Plastic Section Modulus of the steel section in non-composite areas. Omit line in Moment Table if not used in design calculations (in³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_L + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$

$\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

$\phi_r M_{nc}$: Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

f_s (Service II): Sum of stresses as computed from the moments below (ksi).
 $M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_L + IM$

f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$

V_r : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

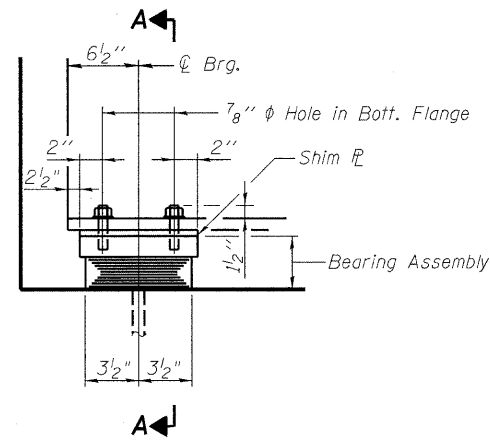
DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

**FRAMING DETAILS AND
MOMENT AND REACTION TABLES
STRUCTURE NUMBER 016-0610**

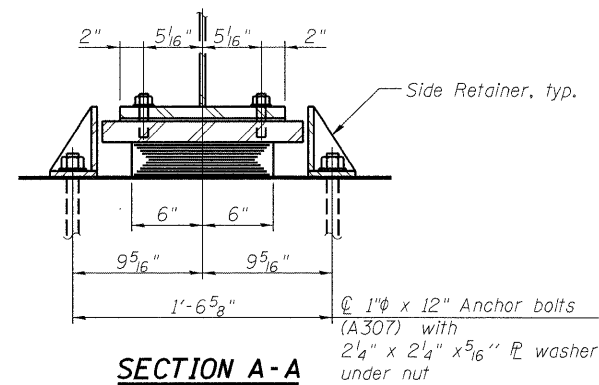
SHEET NO. 23 OF 42 SHEETS	F.A. RTE. 94	SECTION 0101.8B	COUNTY COOK	TOTAL SHEETS 139	SHEET NO. 99
	CONTRACT NO. 60C18				
ILLINOIS FED. AID PROJECT					

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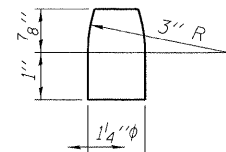
STATE OF ILLINOIS
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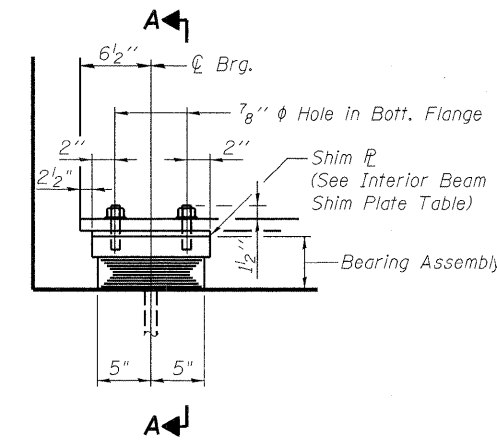
ELEVATION AT ABUT.



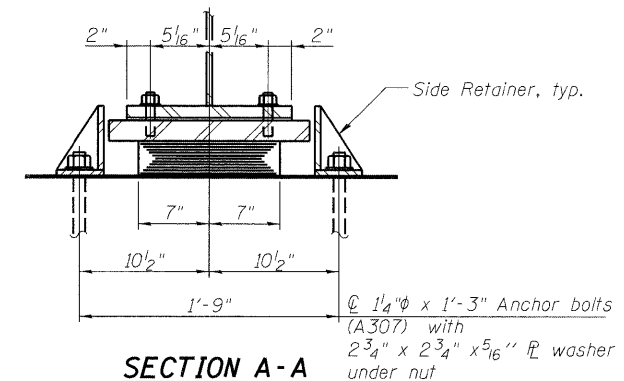
SECTION A-A



PINTLE

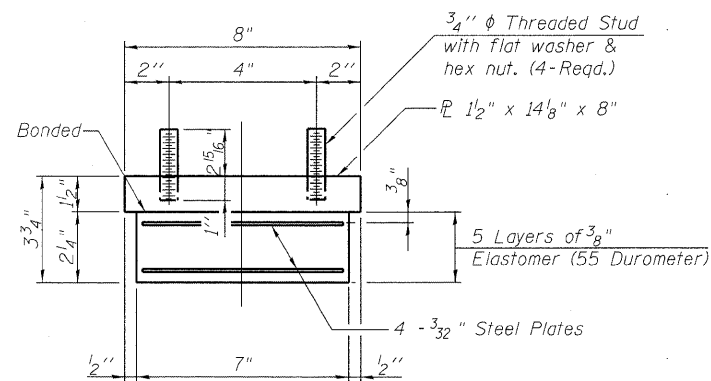


ELEVATION AT ABUT.

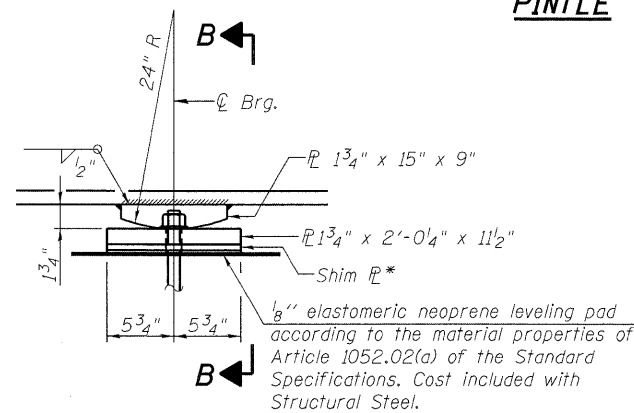


SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - EXTERIOR BEAMS (1 & 12)



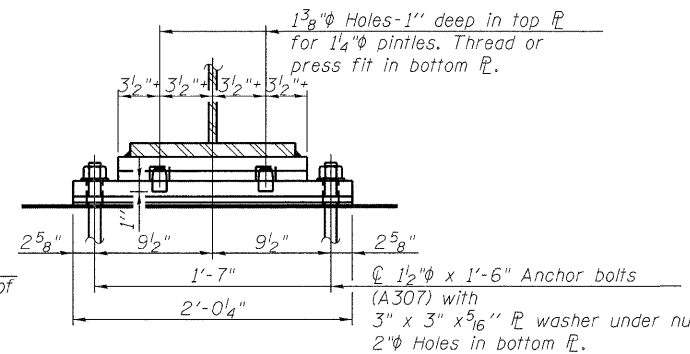
BEARING ASSEMBLY



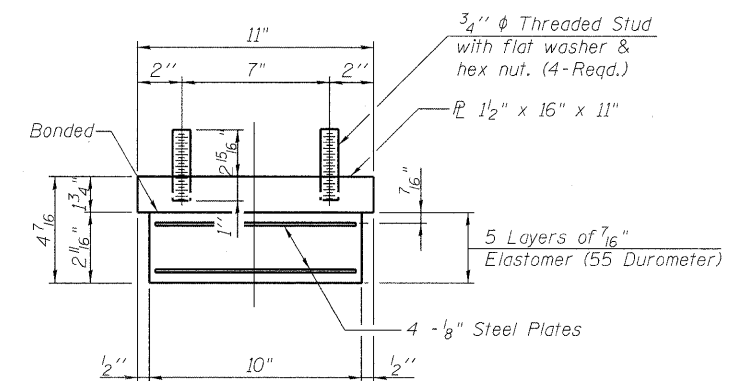
ELEVATION AT PIER

FIXED BEARING

* 1/4" Shim Plate required for beam 6



SECTION B-B



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.

Note:
Shim plates shall not be placed under Bearing Assembly.

Notes:
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers, anchor bolts and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Steel members and Anchor bolts required for the fixed bearing assembly shall be included in the cost of Furnishing and Erecting Structural Steel.

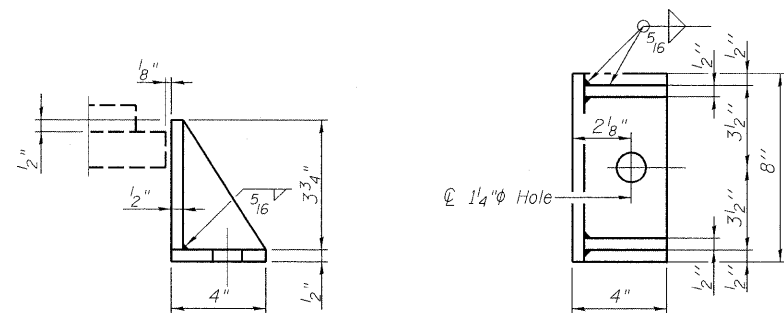
Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M11 or M232 as applicable.

Interior Beam Shim Plate Table			
West Abutment		East Abutment	
Beam No.	Thickness	Beam No.	Thickness
6	1/4"	2	1/4"
7	1/2"	5	5/8"
11	5/8"		

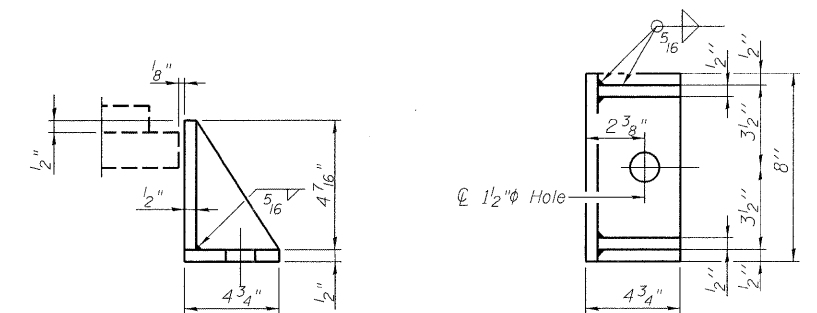
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	24



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

DESIGNED - ASP
CHECKED - WSP
DRAWN - BEM
CHECKED - ASP

BEARING DETAILS
STRUCTURE NUMBER 016-0610

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Arlington Heights IL 60005
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SHEET NO. 24 OF 42 SHEETS	F.A. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.8B	COOK	139	100
			CONTRACT NO. 60C18		
ILLINOIS FED. AID PROJECT					