DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL

SPEED LIMIT 55 MPH

0

0

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 379: LAKE COOK ROAD AT US 41 EDENS EXPY. (1.2 MI. N. OF IL 68) SECTION 2010-120-I PROJECT NUMBER: NHPP-OMSU(054) BRIDGE DECK OVERLAY, BRIDGE JOINT REPAIR AND SUPERSTRUCTURE REPAIR **COOK COUNTY**

C-91-153-11

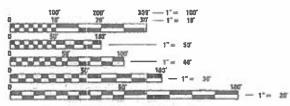
ARTERIAL: FAP ROUTE 379: LAKE COOK ROAD 2018 ADT=31,500 (WEST OF US 41) 2018 ADT=11,000 (EAST OF US 41) SPEED LIMIT 35 MPH

FAP ROUTE 346: US 41 EDENS EXPY.

2018 ADT = 62,400 (SOUTH OF LAKE COOK ROAD) 2018 ADT = 56,400 (NORTH OF LAKE COOK ROAD)

IMPROVEMENT LOCATED IN THE VILLAGE OF NORTHBROOK

> IMPROVEMENT LOCATION LAKE COOK ROAD AT US 41 EDENS EXPY. STRUCTURE NO. 016-0811



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

PROJECT MANAGER: MR. FAWAD AQUEEL. PE. PTOE (847) 705-4247 PROJECT ENGINEER: MR. PRAVEEN KAINI, PE (847) 705-4237

CONTRACT NO. 60M68

NORTHFIELD TOWNSHIP Range 12E - 3rd. PM

> GROSS LENGTH = 1422.5 FT = 0.269 MILE NET LENGTH = 1422.5 FT. = 0.269 MILE

ccurate

WWW.ACCGI.COM 101 SCHELTER AD., SUITE 8-200 LINCOLNSHIRE, ILLINOIS 60069 T (847) 613-1100 F (847) 613-110 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184,0020

DATE SIGNED: 08/05/2019 EXP. DATE: /1/30/2020

SHEETS: 1451773588

* 88 + 2 = 90 TOTAL SHEETS

D-91-153-11



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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TC-26 DRIVEWAY ENTRANCE SIGNING

STATE OF ILLINOIS HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS. ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
442101-09	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
515001-04	NAME PLATE FOR BRIDGES
604001-05	FRAME AND LIDS TYPE I
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B POSTS
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
878001-10	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

COMMITMENTS

NONE

ccurate

880006-01

USER NAME = johnn DESIGNED - IH REVISED DRAWN GP REVISED LOT SCALE = 2.0000 '/ in. CHECKED JMT REVISED PLOT DATE = 11/13/2019 DATE 09/20/2019 REVISED

TRAFFIC SIGNAL MOUNTING DETAILS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY INDEX OF SHEETS, STATE HIGHWAY STANDARDS 88 2 2010-120-I COOK AND GENERAL NOTES CONTRACT NO. 60M68 SHEET SHEETS STA. TO STA.

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM IDOT FIELD MAINTENANCE
- 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 CONTRACTOR MUST CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV AND THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847) 705-4155 AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD ENGINEER AT CORY.JUCIUS@ILLINOIS.GOV AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ALL PAVEMENT MARKINGS AND RAISED REFLECTORS AFFECTED BY THE BRIDGE AND PAVEMENT REPAIRS SHALL BE REPLACED. QUANTITIES HAVE BEEN INCLUDED IN THE CONTRACT FOR THIS WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT
- 10 DO NOT SCALE THESE PLANS FOR CONSTRUCTION PURPOSES
- 11 PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING 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 BASED UPON THE UNIT PRICE BID FOR THE WORK.
- 12. DURING CONSTRUCTION OPERATIONS, LOOSE MATERIAL DEPOSITS THAT OBSTRUCT THE FLOW OF WATER DRAINING AN AREA SHALL BE REMOVED BEFORE THE END OF EACH WORK DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES (NEW AND EXISTING) SHALL BE FREE FROM ALL DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COSTS OF THE CONTRACT.
- 13. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES, LETTERS AND SYMBOLS (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE AS DIRECTED BY THE ENGINEER.
- 14. THE PLANS DO NOT REPRESENT A COMPLETE DEPICTION OF ALL UTILITIES THAT MAY BE IMPACTED BY THE PROPOSED WORK. THE CONTRACTOR SHALL CONDUCT HIS OR HER OWN INVESTIGATION TO DETERMINE THE OWNERSHIP OF IMPACTED UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNERS AND MAY BE REQUIRED TO PROVIDE TEMPORARY SUPPORT, ADJUST, RELOCATE OR REMOVE UTILITIES THAT ARE IMPACTED BY THE PROPOSED IMPROVEMENT. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COSTS OF THE CONTRACT.
- 15. CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT www.idotlcs.com ONE WORK DAY (TWENTY-FOUR (24) HOURS) IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION AND APPROVAL IS CALCULATED BASED ON WORKDAYS OF MONDAY THROUGH FRIDAY EXCLUSIVE OF WEEKENDS AND HOLIDAYS
- 16. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE. BUT NOT BE LIMITED TO LANE AND RAMP CLOSURES. EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATIONS.
- 17. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (1 EACH) AT THE SKOKIE BLVD AND LAKE COOK RD INTERSECTION
- 18. JACK BIELAK AT COOK COUNTY SHALL BE NOTIFIED AT (312) 603-7336 FOR FINAL INSPECTION. AFTER THE LAKE COOK ROAD CONSTRUCTION IS COMPLETE, AS-BUILT PLANS SHALL BE SENT TO COOK COUNTY AS THEY BECOME AVAILABLE.
- 19. THE RESIDENT ENGINEER SHALL CONTACT PACE TRANSPORTATION ENGINEER RICK WILLMAN AT RICHARD.WILLMAN@PACEBUS.COM OR (847) 228-3584 AT LEAST 10 DAYS IN ADVANCE OF BEGINNING WORK.

SCALE:

NHPP 80% FED / 20% STATE BRIDGE 0047 CODE **TOTAL** NO. ITEM UNIT QUANTITY S.N. 016-0811 20200100 EARTH EXCAVATION CU YD 1085 1085 * 21101615 TOPSOIL FURNISH AND PLACE,4" SQ YD 79 79 * 25000210 SEEDING, CLASS2A ACRE 0.25 0.25 * 25000400 NITROGEN FERTILIZER NUTRIENT POUND 2 2 * 25000600 POTASSIUM FERTILIZER NUTRIENT POUND 2 2 EROSION CONTROL BLANKET 25100630 SQ YD 79 79 28100803 STONE DUMPED RIPRAP, CLASS A2 TON 18 18 28200200 FILTER FABRIC SQ YD 14 14 30300112 AGGREGATE SUBGRADE IMPROVEMENT 12" SQ YD 1625 1625 35101800 AGGREGATE BASE COURSE, TYPE B6" SQ YD 14 14 40600400 MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS TON 16 16 40600985 PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT SQ YD 850 850 40603200 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 397 397 TON POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 40605026 TON 925 925

* SPECIALTY ITEMS
* SPECIALTY ITEMS

	T		1	80% FED / 20% STATE BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 016-0811
40700200	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	6378	6378
42000541	PORTLAND CEMENT CONCRETE PAVEMENT 12" (JOINTED)	SQ YD	1625	1625
42001300	PROTECTIVE COAT	SQ YD	717	717
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	60	60
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1325	1325
44000600	SIDEWALK REMOVAL	SQ FT	60	60
44200990	CLASS B PATCHES, TYPE I,12 INCH	SQ YD	11	11
44200994	CLASS B PATCHES, TYPE II,12 INCH	SQ YD	1064	1064
44200998	CLASS B PATCHES, TYPE III, 12 INCH	SQ YD	164	164
44201000	CLASS B PATCHES, TYPE IV,12 INCH	SQ YD	237	237
44201000	edia 51 / Hariza, Fili Etv, 12 ilian	00(1)	207	201
44201696	CLASS D PATCHES, TYPE IV,4 INCH	SQ YD	8	8
50102400	CONCRETE REMOVAL	CU YD	70.1	70.1
50157300	PROTECTIVE SHIELD	SQ YD	1181	1181
50300255	CONCRETE SUPERSTRUCTURE	CU YD	74.5	74.5

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		GF	OUP	, IN	C.		

USER NAME = JENT	DESIGNED	-	JMT	REVISED -
	DRAWN	-	JN	REVISED -
PLOT SCALE = 2.0000 '/ in.	CHECKED	-	JMT	REVISED -
PLOT DATE = 10/17/2019	DATE	-	09/20/2019	REVISED -

SCALE:

CONSTR. CODE

	SUMMARY OF QUANTITIES						SECTION	COUNTY TOTAL SHEET		SHEET NO.		
LAKE COOK ROAD AT US 41						379	2010-120-I	соок	88	3		
						!		CONTRACT	NO.	60M68		
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT					

CONSTR. CODE NHPP

NHPP 80% FED / 20% STATE BRIDGE 0047 CODE **TOTAL** NO. ITEM UNIT QUANTITY S.N. 016-0811 50300260 BRIDGE DECK GROOVING SQ YD 1850 1850 50300300 PROTECTIVE COAT SQ YD 2540 2540 FURNISHING AND ERECTING STRUCTURAL STEEL POUND 2450 2450 REINFORCEMENT BARS, EPOXY COATED POUND 8530 50800515 BAR SPLICERS 48 PREFORMED JOINT STRIP SEAL 206 52000110 FOOT 206 59000200 EPOXY CRACK INJECTION FOOT 6 6 MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID EACH 2 2 60255700 1 60255800 MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID EACH 1 INLETS TO BE ADJUSTED EACH 4 4 60260100 64200116 SHOULDER RUMBLE STRIPS, 16 INCH FOOT 2216 2216 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 12 12 67100100 MOBILIZATION L SUM 1 1 70107025 CHANGEABLE MESSAGE SIGN CAL DA 56 56

* SPECIALTY ITEMS
* SPECIALTY ITEMS

V - LETTERS AND SYMBOLS V4"	UNIT SQ FT FOOT	TOTAL QUANTITY 3075	BRIDGE 0047 S.N. 016-0811
V - LETTERS AND SYMBOLS	SQ FT	QUANTITY	S.N. 016-0811
V - LETTERS AND SYMBOLS	SQ FT		
		3075	3075
V4"	FOOT		
		26652	26652
V5"	FOOT	3680	3680
V6"	FOOT	5735	5735
V8"	FOOT	1068	1068
V12"	FOOT	384	384
V24"	FOOT	724	724
	FOOT	900	900
E BARRIER	FOOT	1075	1075
RY (NON-REDIRECTIVE), TEST	EACH	2	2
RY (FULLY REDIRECTIVE,	EACH	4	4
E (FULLY REDIRECTIVE, NARROW),	EACH	4	4
	SQ FT	52	52
	IV6" IV8" IV12" IV24" IF BARRIER IRY (NON- REDIRECTIVE), TEST IRY (FULLY REDIRECTIVE, IRY (FULLY REDIRECTIVE, NARROW),	FOOT IV12" FOOT IV24" FOOT FOOT	FOOT 1068 IV12" FOOT 384 IV24" FOOT 724 FOOT 900 FE BARRIER FOOT 1075 IRY (NON-REDIRECTIVE), TEST EACH 2 IRY (FULLY REDIRECTIVE, EACH 4 E (FULLY REDIRECTIVE, NARROW), EACH 4

USER NAME = JENT	DESIGNED - JMT	REVISED -
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PLOT SCALE = 2.00000 '/ in.	CHECKED - JMT	REVISED -
PLOT DATE = 10/17/2019	DATE - 09/20/2019	REVISED -

SCALE:

CONSTR. CODE

	SUMMARY OF QUANTITIES						SECTION	COUNTY TOTAL SHEETS		SHEET NO.	
LAKE COOK ROAD AT US 41						379	2010-120-I	соок	88	4	
	LAKE COUK HUAD AT US 41							CONTRACT	NO.	60M68	
	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

CONSTR. CODE NHPP

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE NHPP 80% FED / 20% STA BRIDGE 0047 S.N. 016-0811
7	72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	4	4
7	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	20	20
ŀ	72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	135	135
7	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	95	95
7	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	4	4
7	73400100	CONCRETE FOUNDATIONS	CU YD	8	8
	73500300	REMOVE AND RELOCATE GROUND MOUNTED SIGN SUPPORT	EACH	4	4
7	73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	4	4
7	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	68	68
7	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE4"	FOOT	10426	10426
7	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE6"	FOOT	507	507
	78000500	THERMOPLASTIC PAAVEMENT MARKING LINE - LINE 8"	FOOT	133	133
7	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	538	538
7	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	104	104
_ 7	78003120	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE5"	FOOT	1420	1420

* SPECIALTY ITEMS

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	NHPP 80% FED / 20% STAT BRIDGE 0047 S.N. 016-0811
	110.	II Lim	ONIT	QUANTITI	3.N. 010-0011
780	004100	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LETTERS AND SYMBOLS	SQ FT	146	146
780	004110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE4"	FOOT	621	621
780	004130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE6"	FOOT	538	538
780	004180	PREFORMED PLASTIC PAVEMENT MARKING, TYPE C - LINE 24"	FOOT	106	106
780	008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	16	16
780	009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	484	484
780	009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	16	16
781	100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	270	270
781	100300	REPLACEMENT REFLECTOR	EACH	188	188
782	200011	BARRIER WALL REFLECTORS, TYPE C	EACH	108	108
805	500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1	1
810	028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	193	193
810	028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	153	153
810	028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	236	236

* SPECIALTY ITEMS

SCALE:

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		GF	ROUP	, IN	C.		

DRAWN - JN REVISED - PLOT SCALE = 2.0000 '/ in. CHECKED - JMT REVISED - PLOT DATE = 10/18/2019 DATE - 09/20/2019 REVISED -	ı	USER NAME = JENT	DESIGNED	-	JMT	REVISED -
	ſ		DRAWN	-	JN	REVISED -
PLOT DATE = 10/18/2019 DATE - 09/20/2019 REVISED -	ſ	PLOT SCALE = 2.0000 '/ 10.	CHECKED	-	JMT	REVISED -
		PLOT DATE = 10/18/2019	DATE	-	09/20/2019	REVISED -

CONSTR. CODE

CONSTR. CODE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE NHPP 80% FED / 20% STAT BRIDGE 0047 S.N. 016-0811
814	400100	HANDHOLE	EACH	1	1
814	400300	DOUBLE HANDHOLE	EACH	1	1
850	000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3
873	301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 143C	FOOT	1736	1736
873	301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 145C	FOOT	5261	5261
873	301715	ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 186 PAIR	FOOT	883	883
873	301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.62 C	FOOT	212	212
873	301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO.61C	FOOT	1348	1348
875	502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	6	6
878	300100	CONCRETE FOUNDATION, TYPE A	FOOT	24	24
879	900200	DRILL EXISTING HANDHOLE	EACH	4	4
880	030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6	6
890	000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	2
895	502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	10299	10299

* SPECIALTY ITEMS
* SPECIALTY ITEMS

			T	T	NHPP 80% FED / 20% STATE
	CODE			TOTAL	BRIDGE 0047
	NO.	ITEM	UNIT	QUANTITY	S.N. 016-0811
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2	2
*	89502376	REBUILD EXISTING HANDHOLE	EACH	2	2
	89502380	REMOVE EXISTING HANDHOLE	EACH	1	1
	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1	1
	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6	6
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	857	857
*	X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	500	500
	X0326650	FILLING EXISTING RUMBLE STRIP	FOOT	2216	2216
	X0326766	CLEAN & RESEAL RELIEF JOINT	FOOT	160	160
	V0007000		00.57	4000	1000
*	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4030	4030
	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE	SQ YD	1516	1516
	X4400100	DEPTH)	SQTD	1516	1516
	X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	12073	12073
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STATE WEDNIT SOM MOE NEWOVAL	0011	12070	12010
	X4402810	ISLAND SURFACE REMOVAL AND REPLACEMENT	SQ FT	2247	2247
	X6060500	CORRUGATED MEDIAN REMOVAL	SQ FT	1208	1208
		<u> </u>	1		

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CONSTR. CODE

CONSTR. CODE

			1	CONSTR. CODE NHPP 80% FED / 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0047 S.N. 016-0811
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	90	90
V702000E	TEMPODADY DAVEMENT MADVING DEMOVAL	00 FT	10000	10000
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	10006	10006
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	162	162
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	150	150
X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1310	1310
X8100105	CONDUIT SPLICE	EACH	1	1
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	77	77
				,.
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	10	10
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	2130	2130
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	1953	1953
Z0012130	BRIDGE DECK SCARIFICATION3/4"	SQ YD	1953	1953
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	523	523
	[HAN SINGRES]			

* SPECIALTY ITEMS

				CONSTR. CODE
				NHPP
			_	80% FED / 20% STA
				BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 016-0811
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQFT	21	21
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQYD	3	3
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	143	143
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQYD	59	59
Z0030850	TEMPORARY INFORMATION SIGNING	- CO.FT	120.5	420 F
20030850	TEMPORARY INFORMATION SIGNING	SQ FT	128.5	128.5
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1	1
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	15	15
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	5	5
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3
Z0076600	TRAINEES	HOUR	500	500
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	341	341
X6061800	CONCRETE MEDIAN, TYPE SB (DOWELLED)	SQFT	3237	3237

* SPECIALTY ITEMS Ø 0042

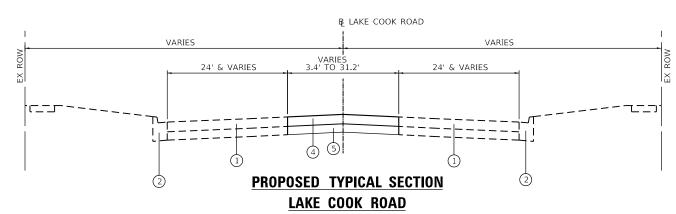
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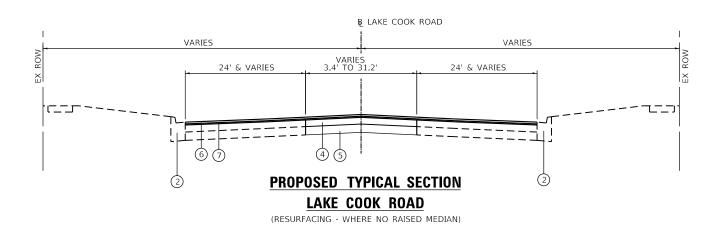
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SUMMARY	OF QUA	ANTITIES		F.A.P.	SECTION	COUNTY	TOTA
	LAKE COOK	ROAD	ΔT IIC 41		379	2010-120-I	соок	88
	LAKE COOK		AI 00 TI		ļ		CONTRAC	T NO.
SHEET	OF	SHEETS	STA.	TO STA.		ITLI INDIS FED. A	IN PROJECT	

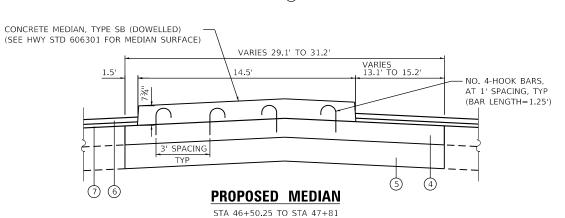


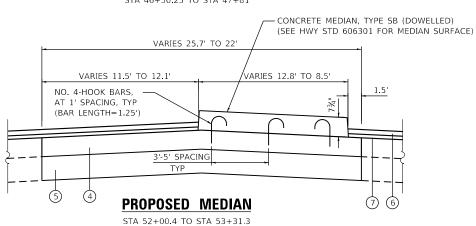
(MEDIAN REMOVAL - PAVEMENT WIDENING) (TEMPORARY RIDING SURFACE)



PROPOSED LEGEND

- 1 EXISTING PAVEMENT
- ② EXISTING COMBINATION CURB AND GUTTER
- 3 EXISTING MEDIAN REMOVAL
- 4 PROPOSED PCC PAVEMENT 12" (JOINTED)
- 5 PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- PROPOSED POLYMERIZED HMA SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1¾"
 PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"





	HOT-MIX ASPHALT MIXTURE REQUIREMENTS					
OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)			
PAVEMENT RESURFACING	3.5% @ 80 GYR. 3.5% @ 50 GYR.					
FILLING EXISTING RUMBLE STRIP	HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM), 2¼"	4% @ 70 GYR.	QC/QA			
CLASS D PATCHES, TYPE IV	CLASS D PATCH (HMA BINDER IL-19.0), 4"	4% @ 70 GYR.	QC/QA			
TEMPORARY PAVEMENT (VARIABLE DEPTH) (FOR MOT)	HMA SURFACE COURSE, MIX "D", N70 (IL-9.5MM), VARIES $2\frac{1}{2}$ " TO $\frac{3}{4}$ "	4% @ 70 GYR.	QC/QA			
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QFP); PAY FOR PERFORMANCE (PFP)						

OTF :

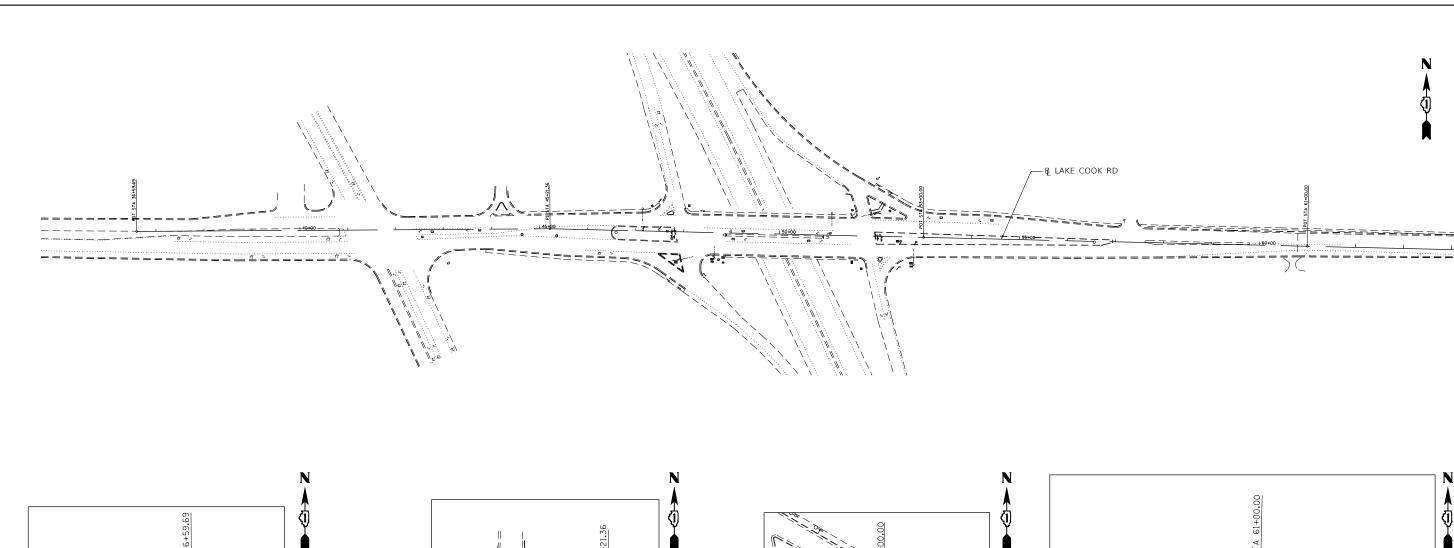
- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA MIXES THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- 3. FOR USE OF RECYCLED MATERIALS, SEE SPECIAL PROVISIONS.
- QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

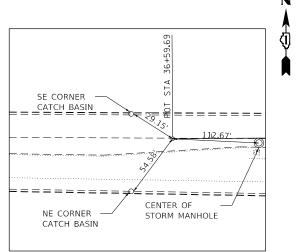
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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	V

LAKI	LAKE COOK ROAD TYPICAL SECTIONS LAKE COOK ROAD AT US 41			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
				379	2010-120-I	COOK	88	8	
	LAKE COUK HUAD AT US 41						CONTRACT	NO.	60M68
SHEET	OF	SHEETS !	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		





TRAFFIC SIGNPOST

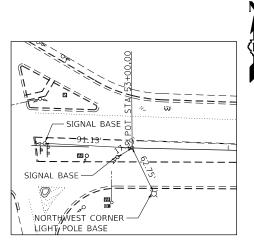
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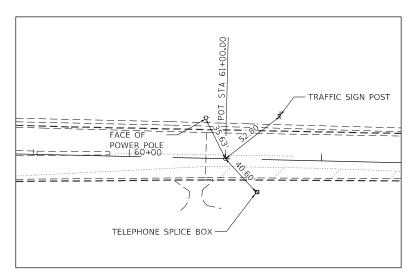
A8 82.45-100 79.36.

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POT STA 36 + 59.69

MAG NAIL

N: 1998621.685 E: 1127869.253 ELEV: 633.27

PI STA 45 + 21.36

MAG NAIL

N: 1998642.515 E: 1128730.672 ELEV: 645.80

POT STA 53+00.00

CUT CROSS

N: 1998638.328 E: 1129509.304 ELEV: 648.90

SCALE:

POT STA 61+00.00

MAG NAIL

N: 1998634.024 E: 1130309.293 ELEV: 937.42

BENCHMARK TBM "A":

CUT CROSS ON THE NORTH FACE OF THE FIRST SIGNAL LIGHT ON THE MEDIAN TO WEST OF US 41 IN MIDDLE OF LAKE COOK RD.

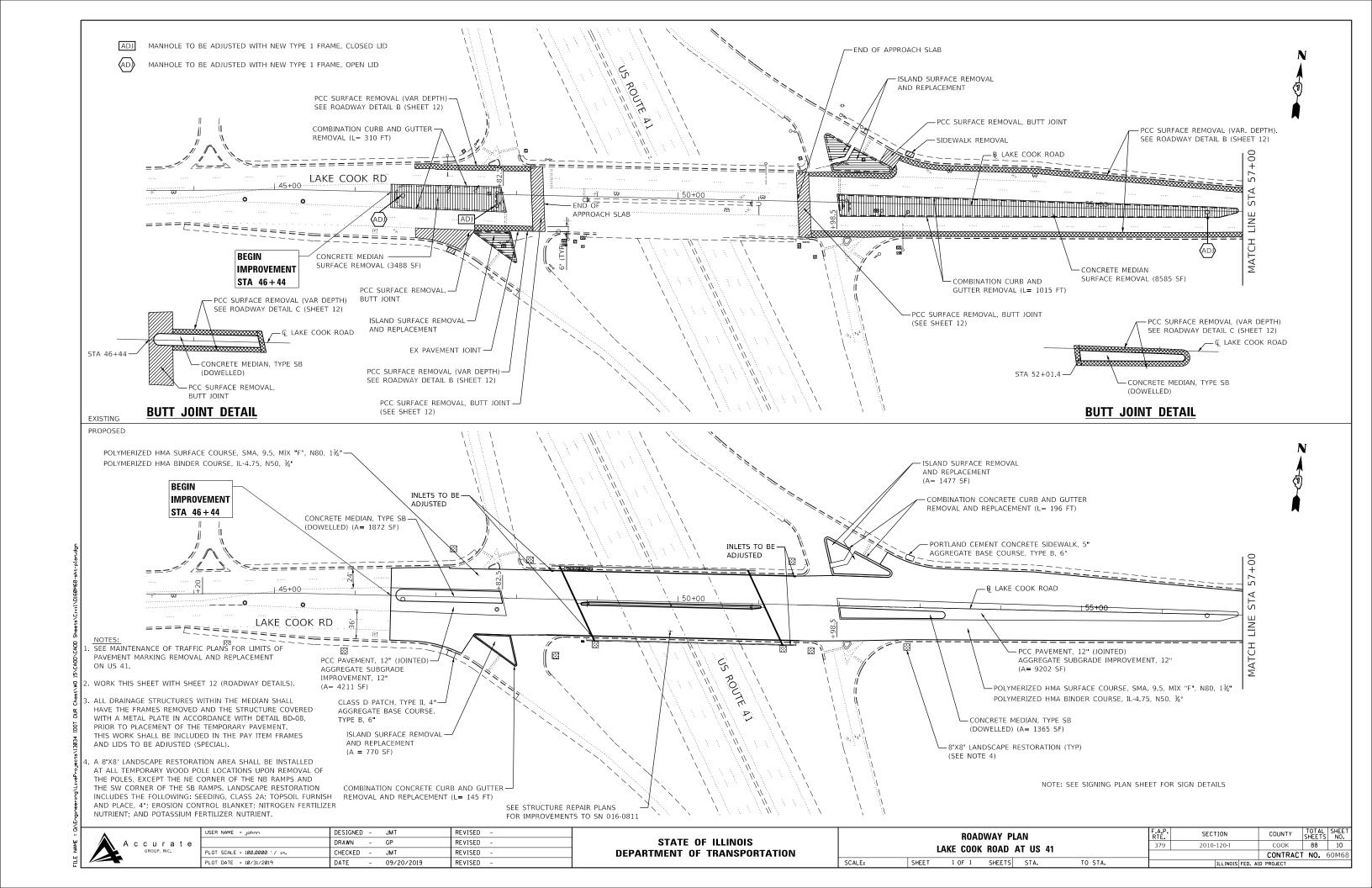


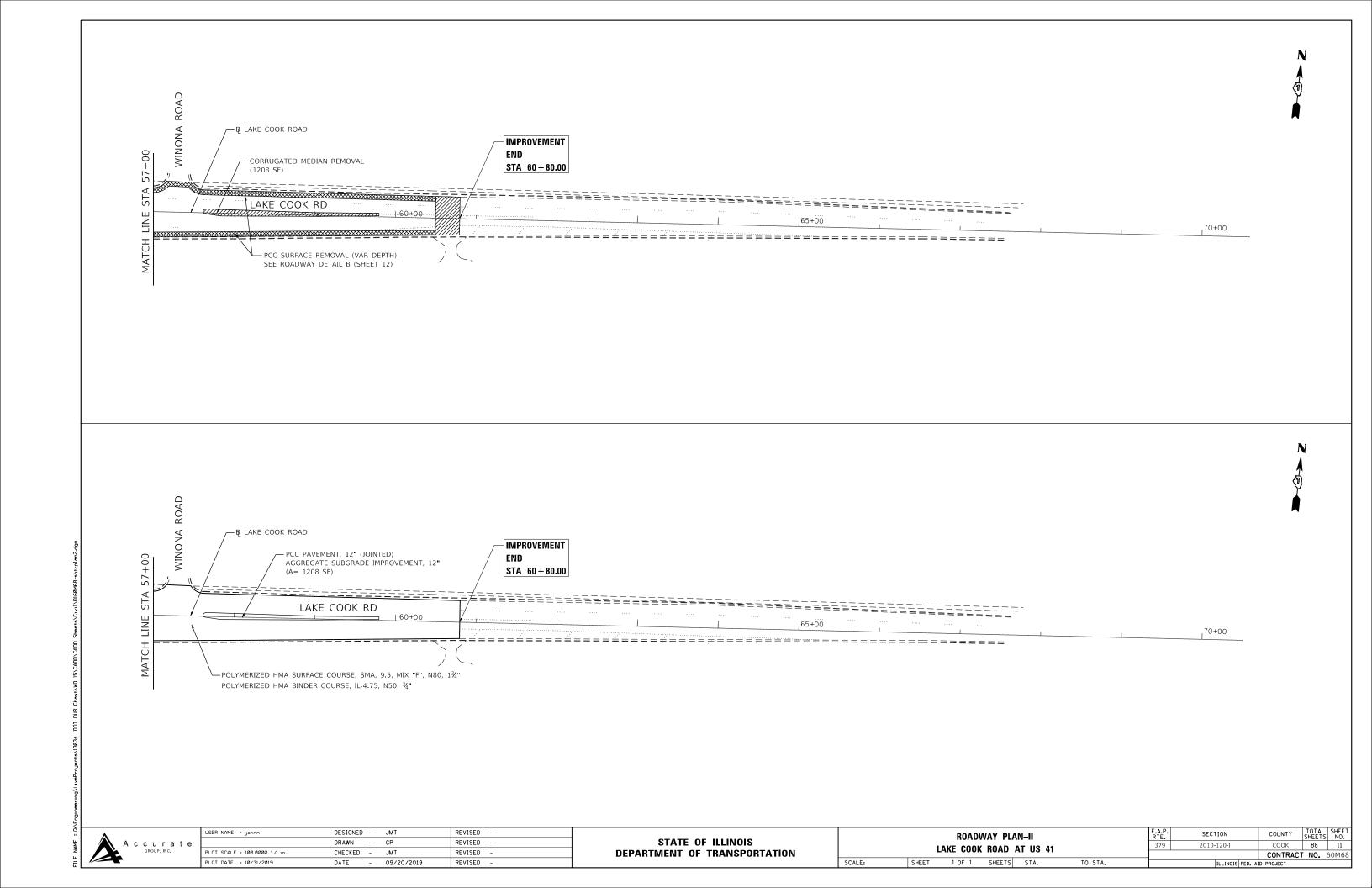
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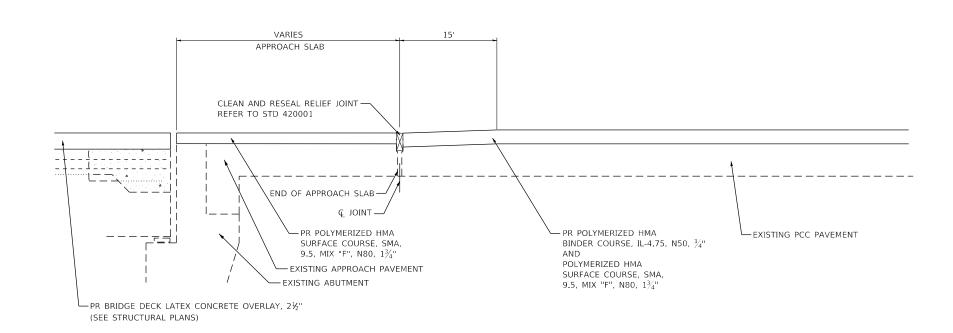
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS					ARKS	F.A.P. RTE.	
		LAKE COOK	ROAD	ΔT IIS 41	1	379	Ī
		LAKE GOOK	IIOAD	A1 00 41			
	SHEET	OF	SHEETS	STA.	TO STA.		_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE1
379	2010-120-I	соок	88	9
		CONTRACT	NO.	60M68
	ILLINOIS FED. A	ID PROJECT		

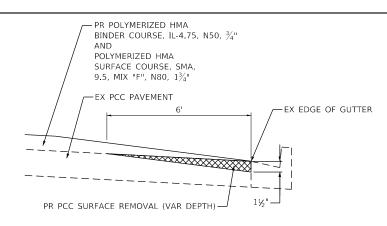




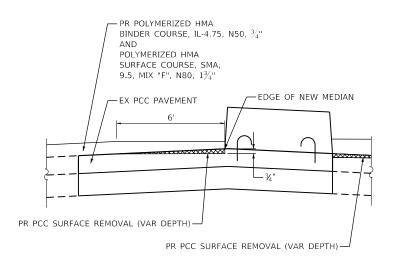


HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY



DETAIL B HMA TAPER AT EDGE OF PCC PAVEMENT



DETAIL C HMA TAPER AT EDGE OF NEW RAISED MEDIANS

NOTES:

TO STA.

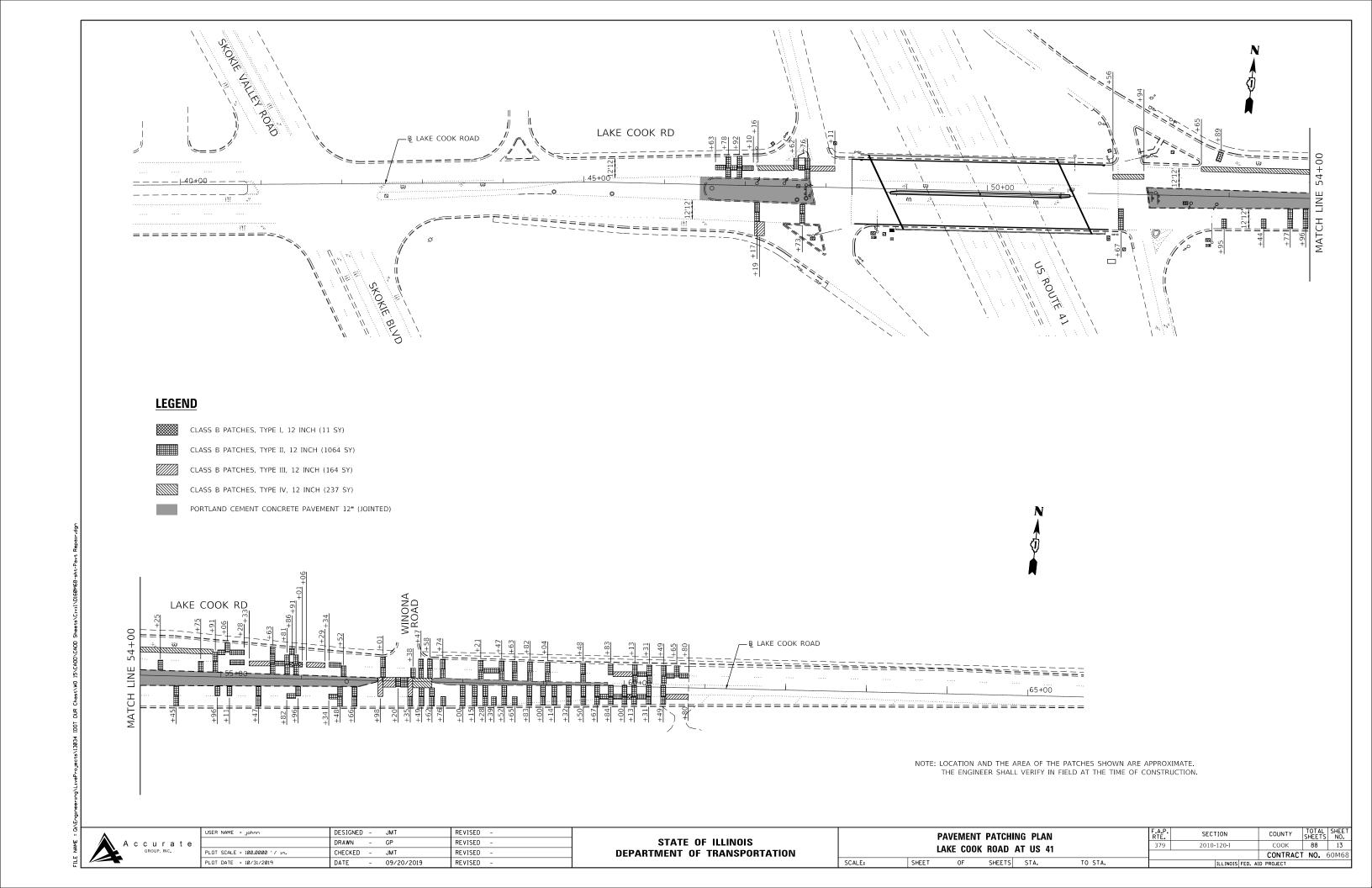
- 1. SEE DETAIL BD-32 FOR BUTT JOINT AND HMA TAPER DETAILS.
- CONTRACTOR SHALL SAW CUT LONGITUDINAL EDGE OF HMA RESURFACING ON THE BRIDGE APPROACHES IF RESURFACING TO BE DONE IN MULTIPLE STAGES OR THE EDGE IS DAMAGED. THE EDGE SHALL BE SAW CUT JUST PRIOR TO PLACING THE SUBSEQUENT HMA RESURFACING TO PROVIDE A CLEAN, DISTINCT EDGE TO MATCH.

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	ROADW	AY DE	TAILS	
	LAKE COOK	ROAD	AT US	41
CHEET	OF	CHEETS	CTA	



TRAFFIC CONTROL GENERAL NOTES

- 1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES ON LAKE-COOK ROAD SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS. ALL TRAFFIC CONTROL DEVICES ON US 41 ASSOCIATED RAMPS SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS) UNLESS OTHERWISE.
- TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR
 CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC
 CONTROL DEVICES.
- 3. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER IN TANGENTS, 20 FEET CENTER TO CENTER IN RADII IN THE CONSTRUCTION WORK ZONE.
- 4. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- 5. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
- 5. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER 7 DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

 SUFFICIENT QUANTITIES FOR THE INITIAL PLACEMENT AND A ONE-TIME REPLACEMENT HAVE BEEN PROVIDED FOR EACH STAGE. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO 7 DAYS OF SERVICE OR AFTER THE INITIAL REPLACEMENT SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
- 8. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED, COVERED OR TURNED AWAY FROM THE TRAFFIC IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" x 6" DELINEATOR INSTALLED. COST OF THE DELINEATOR IS INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- 9. WORK ZONE SPEED LIMIT SHALL BE 35 MPH ON LAKE COOK ROAD AND 45 MPH ON US ROUTE 41.
- 10. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
- 11. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGE OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE AND EROSION CONTROL PROTECTION DURING ALL STAGES OF CONSTRUCTION.
- 13. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 14. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL AS SHOWN IN THE PLANS
- 15. TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS INDICATED IN THE PLANS. FURNISHING, AND INSTALLING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 16. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED, OR OTHERWISE AFFECTED BY CONSTRUCTION.
- 17. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE, TYPE IV, UNLESS OTHERWISE NOTED.
- 18. A MONO-DIRECTIONAL FLASHING AMBER BEACON SHALL BE MOUNTED ON THE FIRST TWO WARNING SIGNS ON EACH APPROACH DURING HOURS OF DARKNESS.
- 19. THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.
- 20. CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT CONSTRUCTION.
- 21. TEMPORARY TRAFFIC SIGNALS SHALL BE IN PLACE AND MADE OPERATIONAL AT THE FOLLOWING INTERSECTIONS:

A) LAKE COOK ROAD AT US ROUTE 41 SOUTHBOUND RAMPS B) LAKE COOK ROAD AT US ROUTE 41 NORTHBOUND RAMPS

- 22. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL PLACE ONE (1) CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT AND/OR AS DIRECTED BY THE ENGINEER TO INFORM MOTORISTS OF UPCOMING CONSTRUCTION ACTIVITIES. THE MESSAGE SIGNS WITH APPROPRIATE INFORMATION SHALL BE PLACED TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY.
- 24. THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT www.idotics.com TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS OR HOLIDAYS.
- 25. ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKENDS AND HOLIDAYS DO NOT COUNT TO THE 72 HOURS NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.
- 26. A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.
- 27. ON US 41, SHOULDER WIDTH BETWEEN THE FACE OF THE TEMPORARY CONCRETE BARRIER WALL AND THE EDGE LINE SHALL BE 1 FOOT MINIMUM.
- 28. CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT <u>WWW.IDOTLCS.COM</u> TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP, AND SHOULDER CLOSURES.

SEQUENCE OF CONSTRUCTION PRE-STAGE I (LAKE COOK ROAD)

UTILIZING DAILY DAYTIME LANE CLOSURES, USE HWY STANDARD 701601 TO:

- 1. INSTALL TEMPORARY SIGNALS.
- 2. REMOVE EXISTING RAISED MEDIANS AND REPLACE WITH PCC PAVEMENT. 12" (JOINTED).

STAGE I (LAKE COOK ROAD)

ESTABLISH TRAFFIC CONTROL PER HWY STANDARD 701601 AND AS DETAILED IN THE TRAFFIC CONTROL PLAN.

- REPAIR OUTSIDE LANE JOINTS OF WB LAKE COOK RD AND INSIDE LANE JOINTS OF EB LAKE COOK RD. SEE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)".
- LAKE COOK ROAD MOT SHALL CHANGE TO STAGE IA WHEN PAVEMENT PATCHING IS COMPLETE IN THE AREAS OF THE TEMPORARY TURN LANES AND TAPERS.
- 3. PERFORM DECK AND APPROACH SLAB REPAIRS IN WESTBOUND LANES.
- 4. PLACE LATEX CONCRETE OVERLAY AND RECONSTRUCT TRANSVERSE JOINTS ON STRUCTURE.
- 5. WORK CANNOT PROGRESS TO STAGE II UNTIL 'REPAIR A' HAS BEEN COMPLETED ON PIER 2 (SEE STRUCTURAL PLANS).

STAGE II (LAKE COOK ROAD)

RELOCATE STAGE TRAFFIC CONTROL AND MOVE TRAFFIC TO THE WESTBOUND AND EASTBOUND LANES ON STRUCTURE, PER HWY STANDARD 701601 AND AS DETAILED IN THE TRAFFIC CONTROL PLAN

- REPAIR INSIDE LANE JOINTS OF WB LAKE COOK RD AND OUTSIDE LANE JOINTS OF EB LAKE COOK RD. SEE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)".
- 2. PERFORM DECK AND APPROACH SLAB REPAIRS IN THE LEFT TURN LANES AND MEDIAN.
- 3. PLACE LATEX CONCRETE OVERLAY AND RECONSTRUCT TRANSVERSE

STAGE III (LAKE COOK ROAD)

RELOCATE STAGE TRAFFIC CONTROL AND MOVE TRAFFIC TO THE WESTBOUND LANES AND EASTBOUND LEFT TURN LANE ON STRUCTURE, PER HWY STANDARD 701601 AND AS DETAILED IN THE TRAFFIC CONTROL PLAN.

- REPAIR OUTSIDE LANE JOINTS FOR EB LAKE COOK RD WEST OF THE BRIDGE. SEE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)."
- 2. PERFORM DECK AND APPROACH SLAB REPAIR IN EASTBOUND LANES.
- PLACE LATEX CONCRETE OVERLAY AND RECONSTRUCT TRANSVERSE JOINTS ON STRUCTURE.
- 4. WORK CANNOT PROGRESS TO STAGE IV UNTIL 'REPAIR B' HAS BEEN COMPLETED ON PIER 2 (SEE STRUCTURAL PLANS).

STAGE IV (LAKE COOK ROAD)

RELOCATE TRAFFIC TO PRE-EXISTING LANE CONFIGURATION, EXCEPT US RTE 41 OFF RAMPS SHALL REMAIN CONFIGURED AS STAGES I - III. UTILIZING DAILY DAYTIME LANE CLOSURES, USE HWY STANDARD 701601 TO:

- 1. CONSTRUCT RAISED MEDIANS BY DOWELLING INTO EXISTING PCC PAVEMENT.
- 2. REPAIR ANY UNCOMPLETED LANE JOINTS. SEE SPECIAL PROVISION "KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC (LANE CLOSURES ONLY)".
- 3. INSTALL PERMANENT TRAFFC SIGNAL EQUIPMENT.
- 4. MILL PCC SURFACE IN PREPARATION FOR HMA OVERLAY.
- PLACE POLYMERIZED HMA BINDER AND SURFACE COURSES; CLEAN AND SEAL RELIEF JOINTS.
- COMPLETE FINAL PAVEMENT MARKING, RE-ENERGIZE TRAFFIC SIGNALS AND REMOVE TEMPORARY TRAFFIC SIGNAL INSTALLATIONS.

SEQUENCE OF CONSTRUCTION STAGE I (US ROUTE 41)

ESTABLISH TRAFFIC CONTROL ALONG US ROUTE 41 CLOSING OUTSIDE SHOULDERS OF NORTHBOUND US ROUTE 41 AND SOUTHBOUND US ROUTE 41.
(SEE - US ROUTE 41 MAINTENANCE OF TRAFFIC STAGE I).

- 1. INSTALL TEMPORARY SHORING AND CRIBBING AT PIER 3. (SEE STRUCTURAL PLANS)
- 2. PERFORM STRUCTURAL REPAIRS OF PIERS 1 AND 3.
- 3. SEE STRUCTURAL PLANS FOR CONSTRUCTION SEQUENCING.

STAGE II (US ROUTE 41)

ESTABLISH TRAFFIC CONTROL ALONG US ROUTE 41.
FILL EXISTING RUMBLE STRIPS ALONG OUTSIDE
SHOULDERS AS DIRECTED BY THE ENGINEER.
(SEE - US ROUTE 41 MAINTENANCE OF TRAFFIC STAGE II)

- ESTABLISH TRAFFIC CONTROL IN ACCORDANCE WITH DISTRICT
 DETAIL TC-09 (MULTI-LANE WEAVE) TO ACCOMMODATE
 THE WORK ZONE
- 2. COMPLETE STRUCTURAL REPAIR OF PIER 2.
- 3. SEE STRUCTURAL PLANS FOR CONSTRUCTION SEQUENCING.

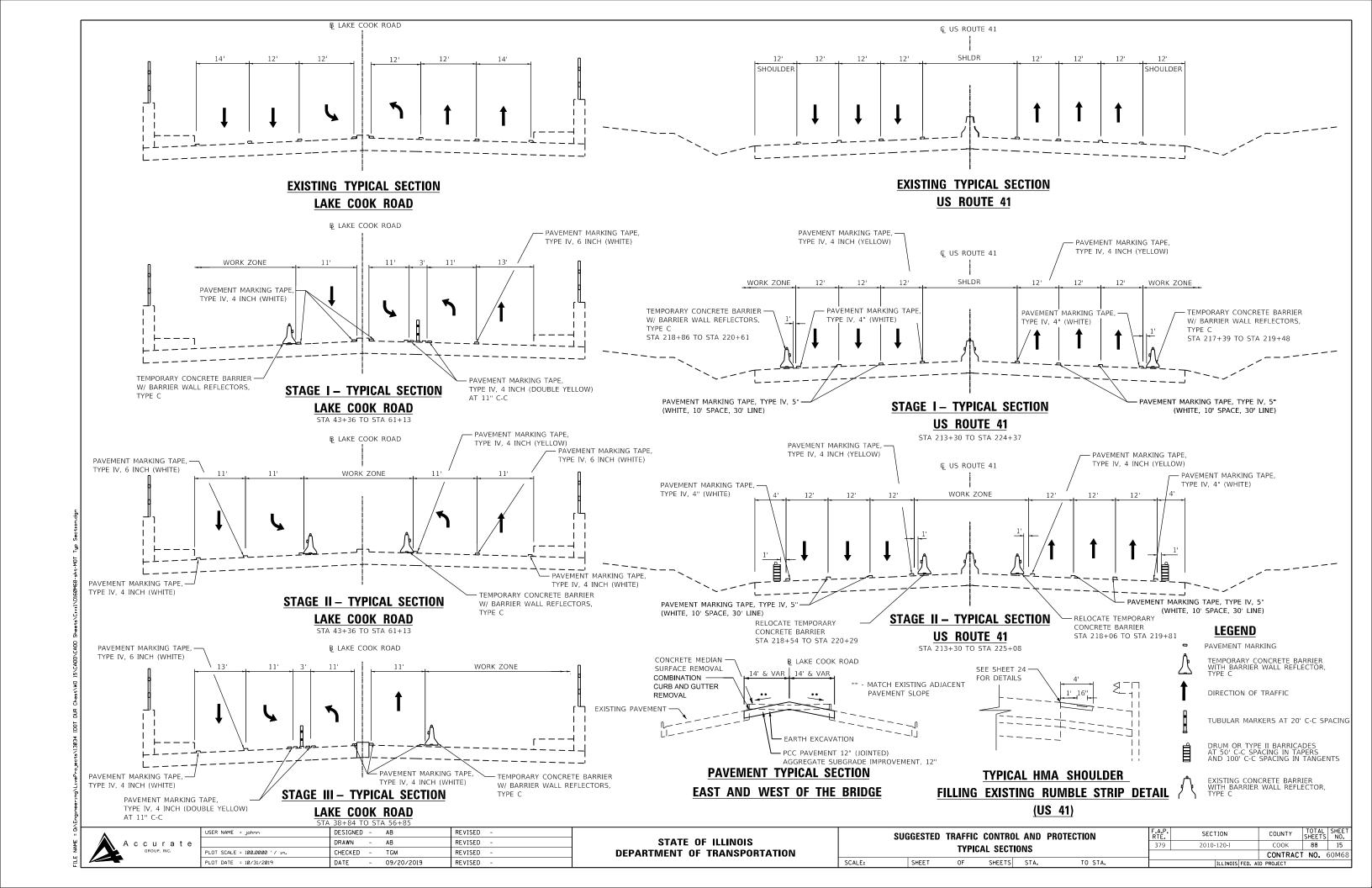
STAGE III (US ROUTE 41)

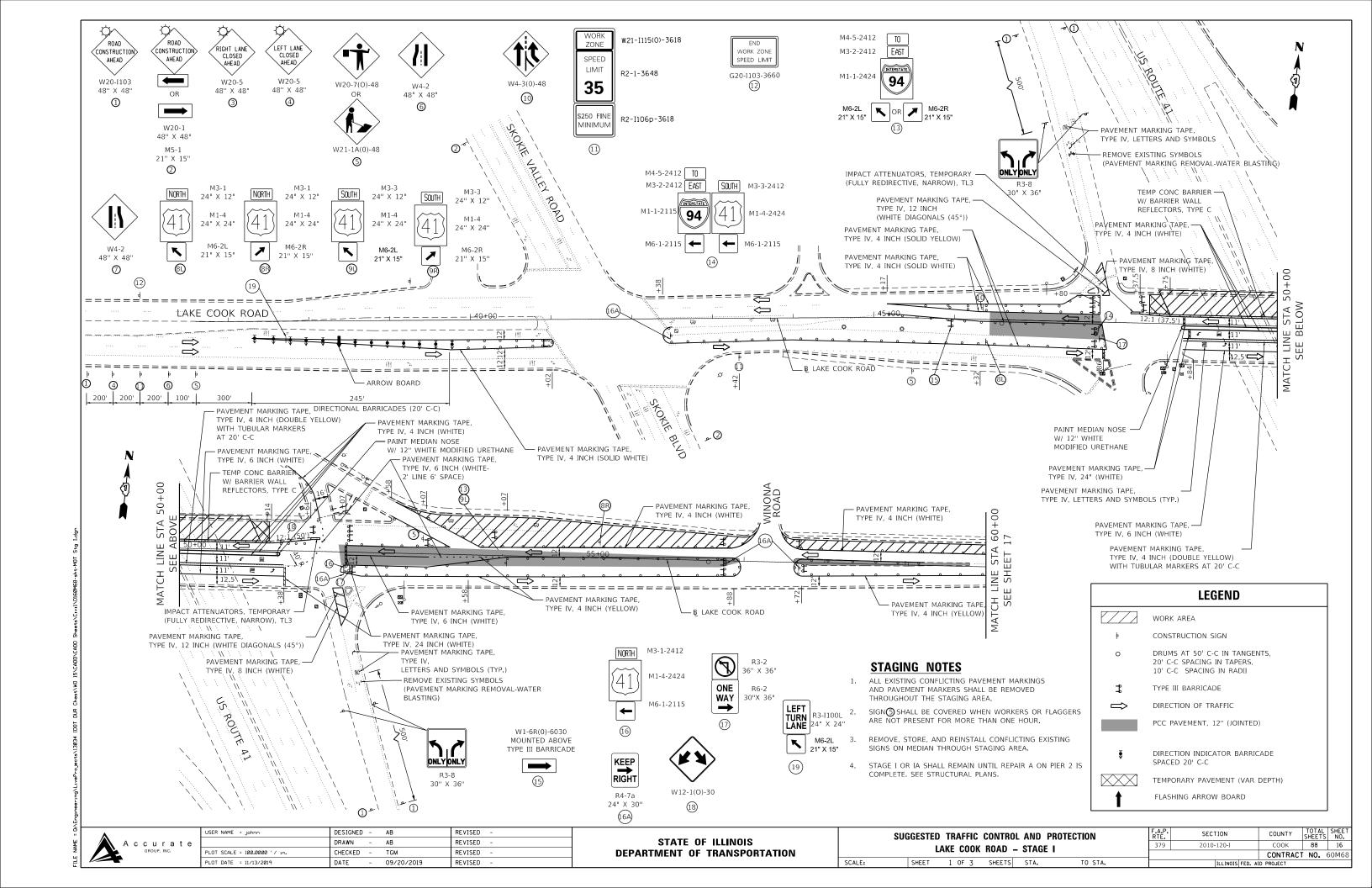
RELOCATE TRAFFIC TO PRE-EXISTING LANE CONFIGURATION. UTILIZING NIGHT TIME LANE CLOSURES PER THE KEEPING EXPRESSWAYS OPEN TO TRAFFIC SPECIAL PROVISION AND HIGHWAY STANDARDS 701400, 701401, 701428, 701446, AND DISTRICT DETAILS TC-09 AND TC-12 TO:

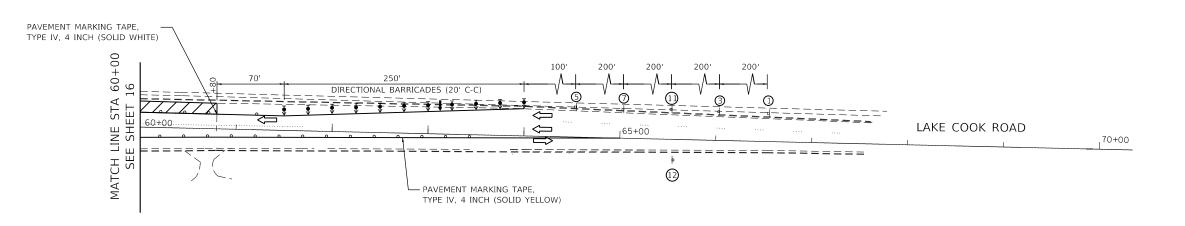
- 1. REMOVE STAGE II PAVEMENT MARKINGS AND RE-ESTABLISH PRE-EXISTING PAVEMENT MARKINGS.
- 2. RE-ESTABLISH SHOULDER RUMBLE STRIPS REMOVED FOR STAGE II.
- REMOVE ALL MOT SIGNAGE AND RE-ESTABLISH PRE-EXISTING TRAFFIC SIGNAGE.

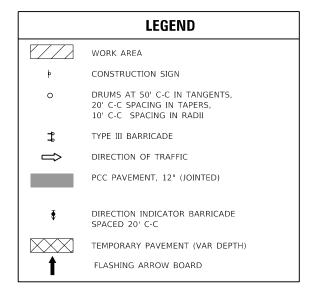
Accurate

USER NAME = Johnn	DESIGNED	-	IH	REVISED -	
	DRAWN	-	GP	REVISED -	
PLOT SCALE = 100.0000 '/ in.	CHECKED	-	TGM	REVISED -	
PLOT DATE = 10/31/2019	DATE	-	09/20/2019	REVISED -	









A A	С	С	u	r	а	t	е
		GF	ROUF	, IN	C.		

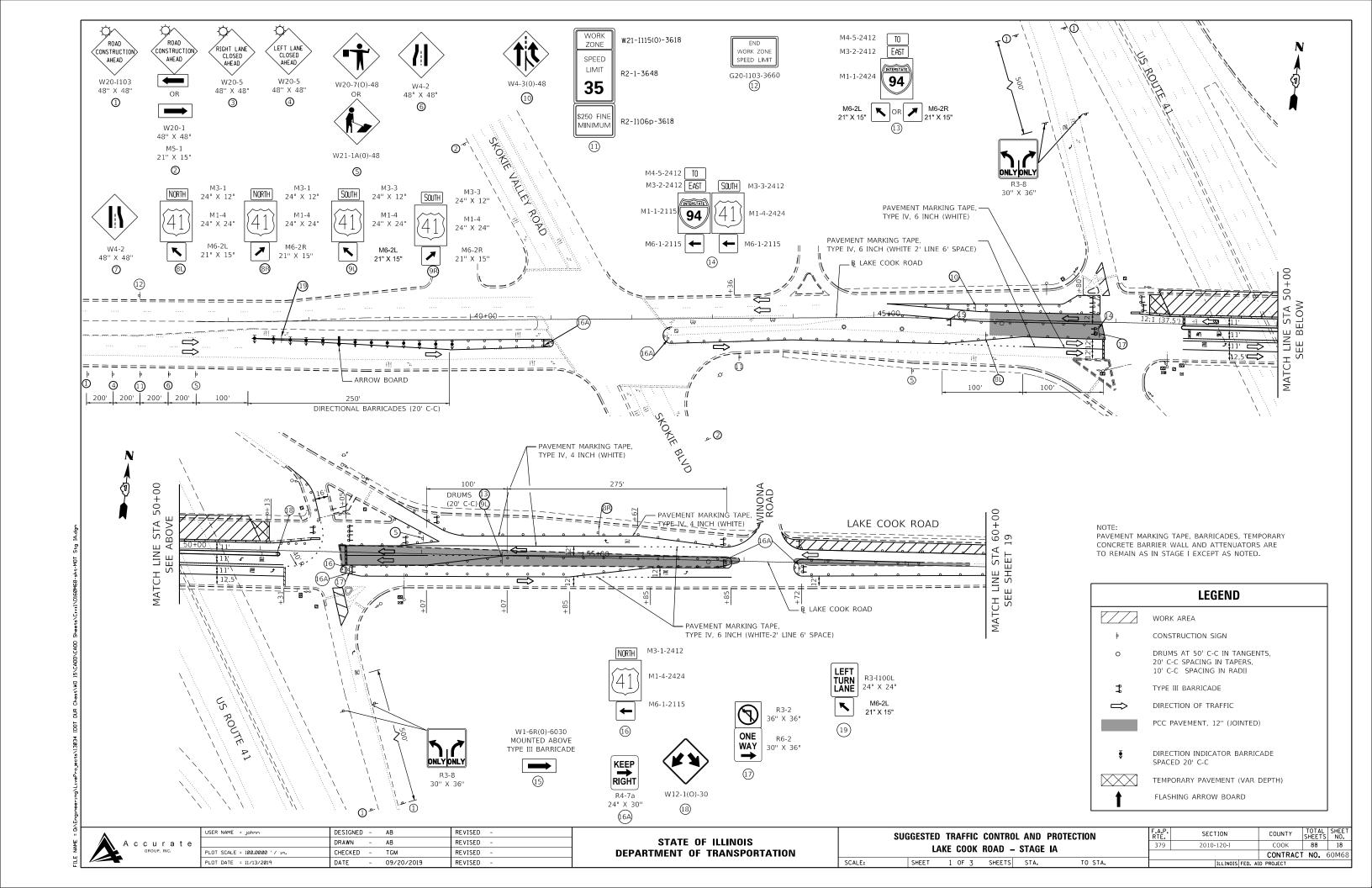
USER NAME = johnn	DESIGNED	-	AB	REVISED -	
	DRAWN	-	AB	REVISED -	l
PLOT SCALE = 100.0000 ' / in.	CHECKED	-	TGM	REVISED -	l
PLOT DATE = 11/13/2019	DATE	-	09/20/2019	REVISED -	

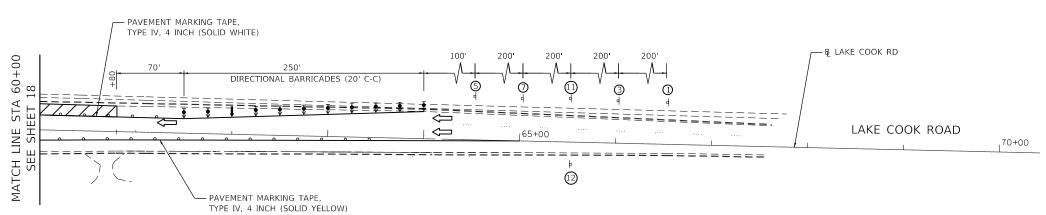
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUG					CONTRO ROAD –		PROTECTION I–2
	SHEET	1	OF	3	SHEETS	STA.	TO STA.

SCALE:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
379	2010-120-I	COOK	88	17
		CONTRACT	NO.	60M68
	ILLINOIS FED. AI	D PROJECT		





STAGING NOTES

SCALE:

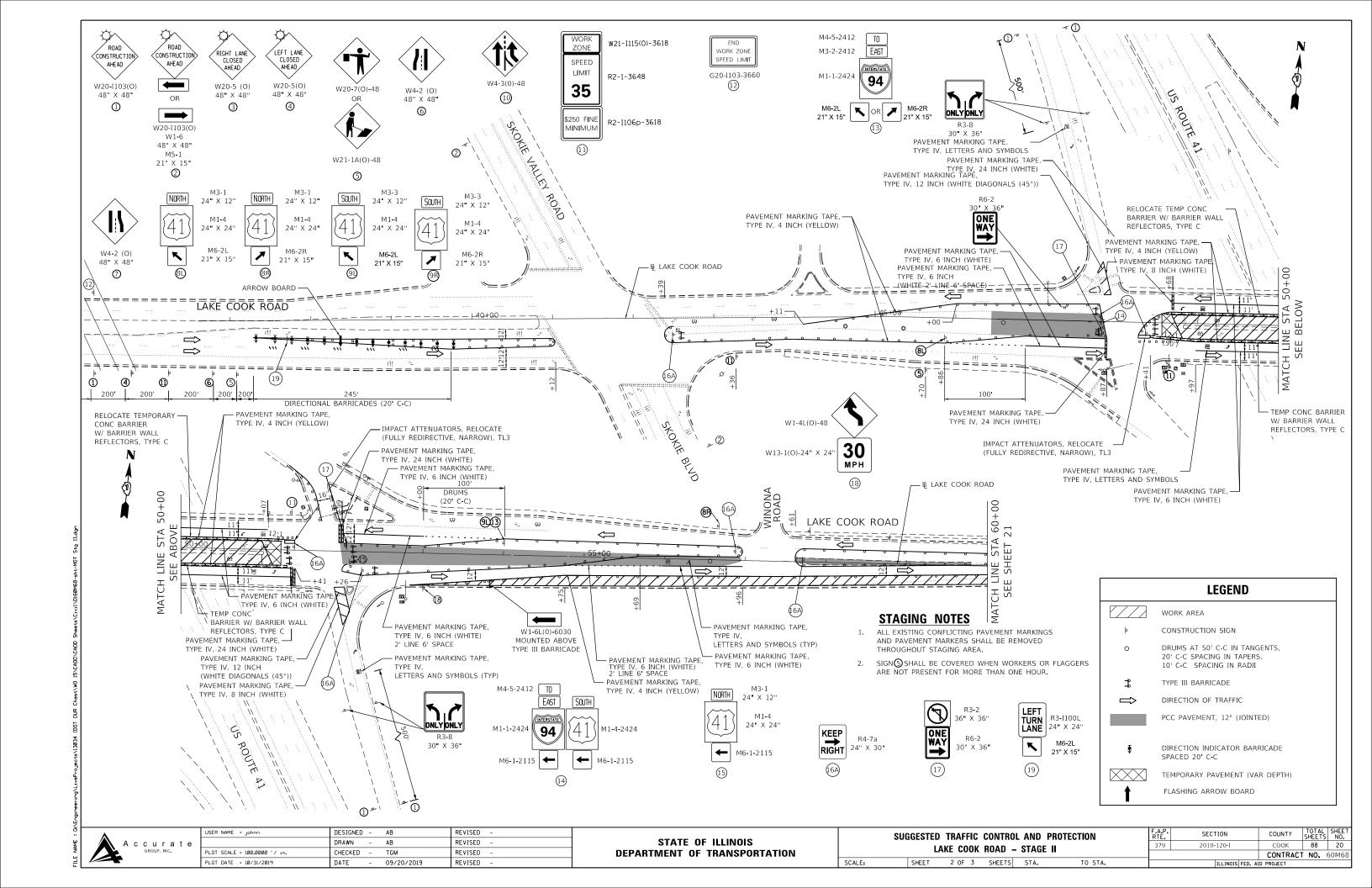
- LAKE COOK ROAD MOT SHALL CHANGE TO STAGE IA
 WHEN PAVEMENT PATCHING IS COMPLETED IN THE AREAS
 OF THE TEMPORARY TURN LANES AND TAPERS.
- 2. ALL EXISTING CONFLICTING PAVEMENT MARKINGS AND PAVEMENT MARKERS SHALL BE REMOVED THROUGHOUT THE STAGING AREA.
- 3. SIGN SHALL BE COVERED WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.
- 4. REMOVE, STORE, AND REINSTALL CONFLICTING EXISTING SIGNS ON MEDIAN THROUGH STAGING AREA.
- STAGE I OR IA SHALL REMAIN UNTIL REPAIR A ON PIER 2 IS COMPLETE. SEE STRUCTURAL PLANS.

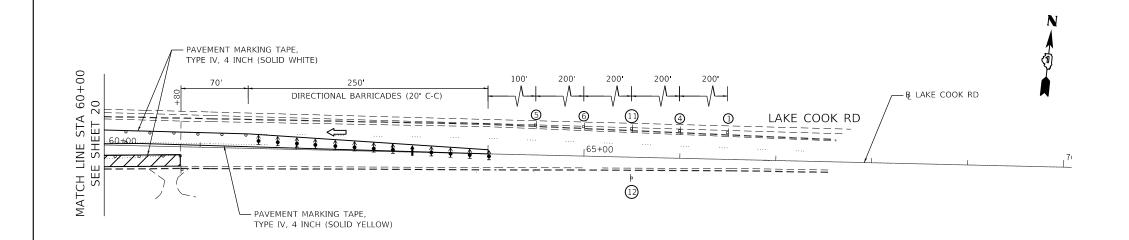
	LEGEND
	WORK AREA
þ	CONSTRUCTION SIGN
0	DRUMS AT 50' C-C IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' C-C SPACING IN RADII
⇉	TYPE III BARRICADE
\Rightarrow	DIRECTION OF TRAFFIC
	PCC PAVEMENT, 12" (JOINTED)
•	DIRECTION INDICATOR BARRICADE SPACED 20' C-C
	TEMPORARY PAVEMENT (VAR DEPTH)
★	FLASHING ARROW BOARD



USER NAME = Johnn	DESIGNED	-	AB	REVISED -	
	DRAWN	-	AB	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED	-	TGM	REVISED -	
PLOT DATE = 10/31/2019	DATE	-	09/20/2019	REVISED -	

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STAGING NOTES

SCALE:

- ALL EXISTING CONFLICTING PAVEMENT MARKINGS
 AND PAVEMENT MARKERS SHALL BE REMOVED
 THROUGHOUT STAGING AREA.
- 2. SIGN SHALL BE COVERED WHEN WORKERS OR FLAGGERS ARE NOT PRESENT FOR MORE THAN ONE HOUR.

	LEGEND
	WORK AREA
þ	CONSTRUCTION SIGN
0	DRUMS AT 50' C-C IN TANGENTS, 20' C-C SPACING IN TAPERS, 10' C-C SPACING IN RADII
# #	TYPE III BARRICADE
\Rightarrow	DIRECTION OF TRAFFIC
	PCC PAVEMENT, 12" (JOINTED)
•	DIRECTION INDICATOR BARRICADE SPACED 20' C-C
	TEMPORARY PAVEMENT (VAR DEPTH)
†	FLASHING ARROW BOARD

COUNTY TOTAL SHEET NO.

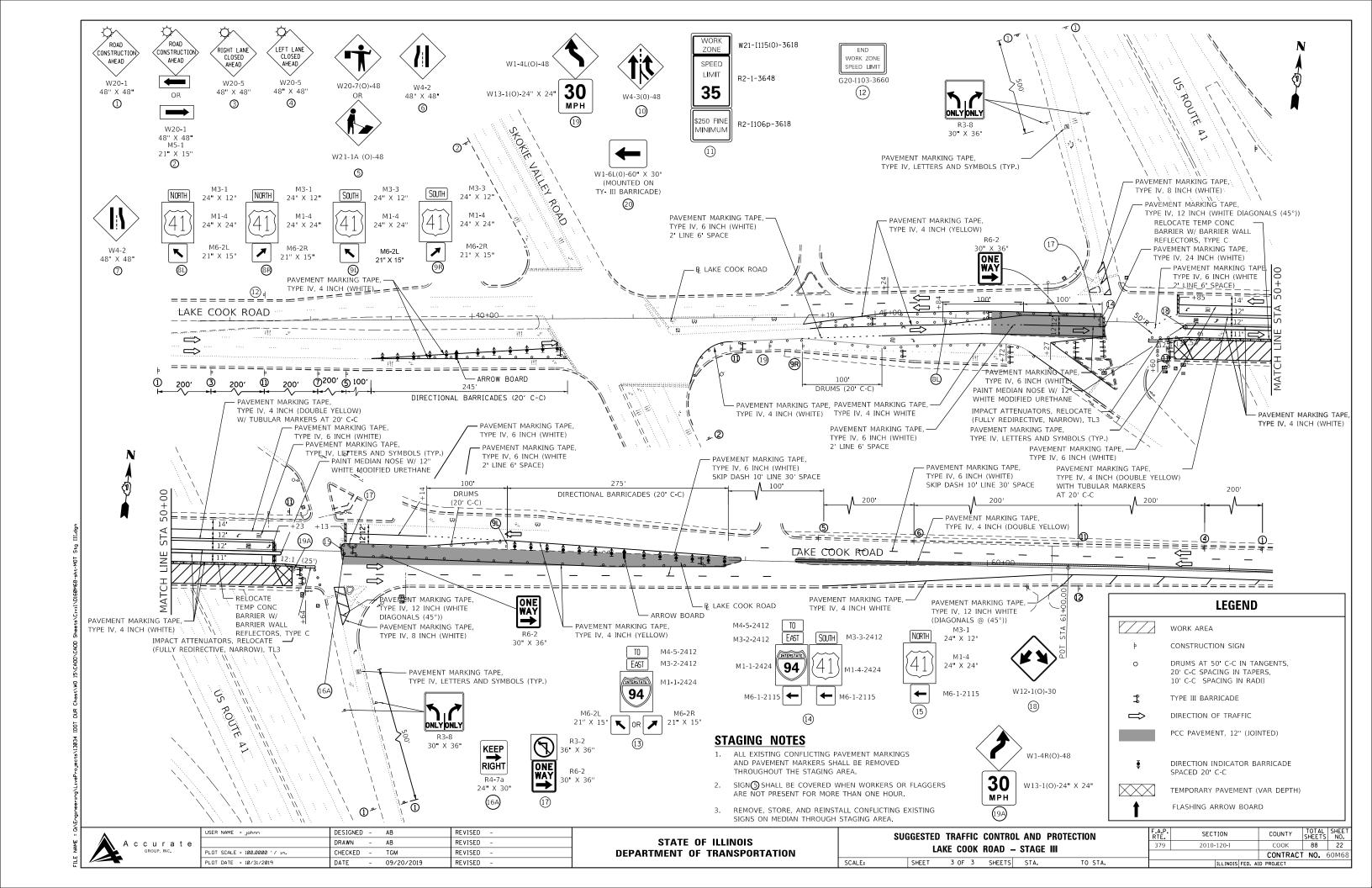
COOK 88 21

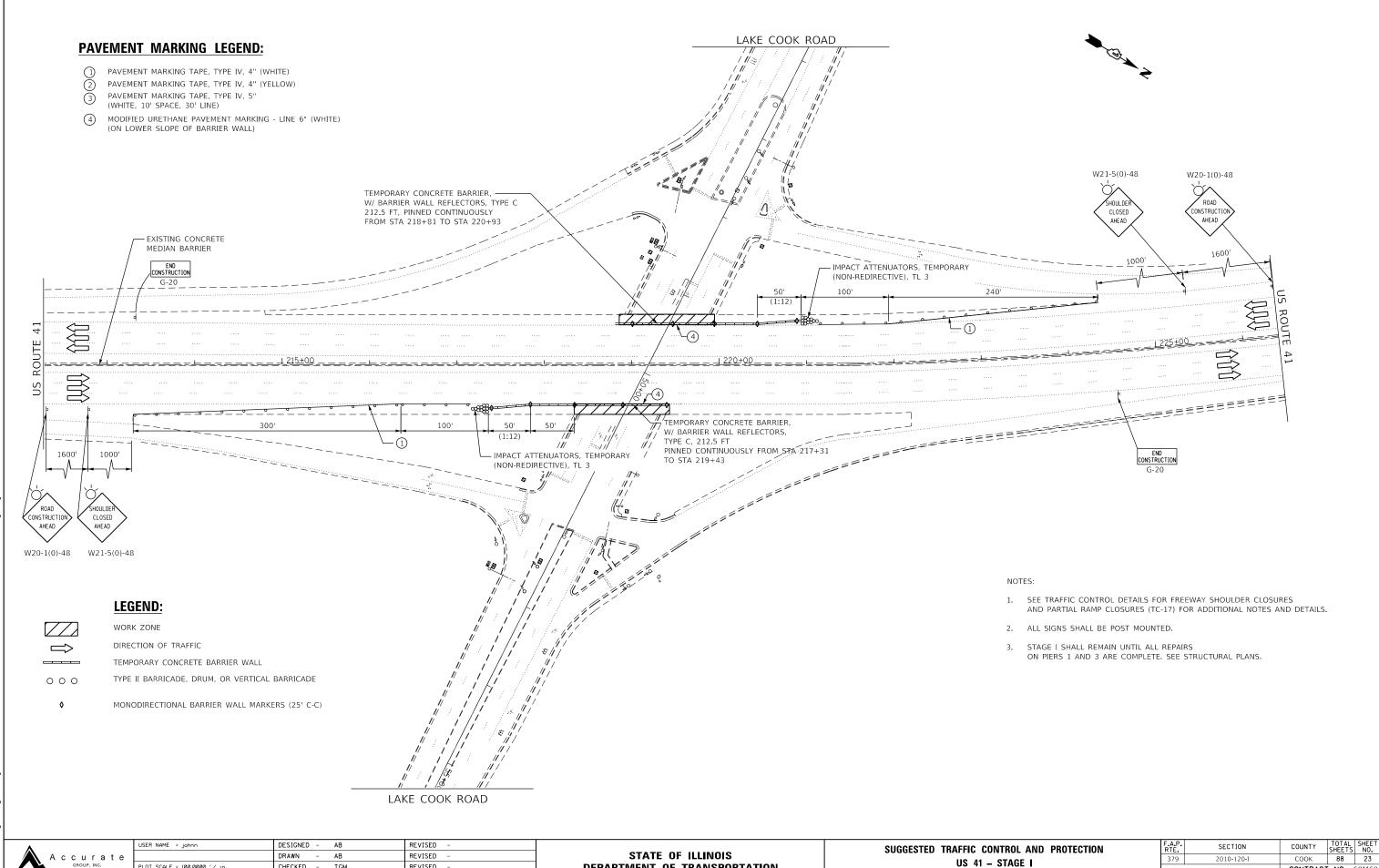
CONTRACT NO. 60M68



USER NAME = Johnn	DESIGNED	-	AB	REVISED -	
	DRAWN	-	AB	REVISED -	
PLOT SCALE = 100.0000 '/ in.	CHECKED	-	TGM	REVISED -	
PLOT DATE = 10/31/2019	DATE	-	09/20/2019	REVISED -	

SUG	GESTED TI	F.A.P. RTE.	SECTION				
	LAKE	379	2010-120-I				
	LANL	COOK	IIOAD -	SIAGE II-	- <u>L</u>		
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.



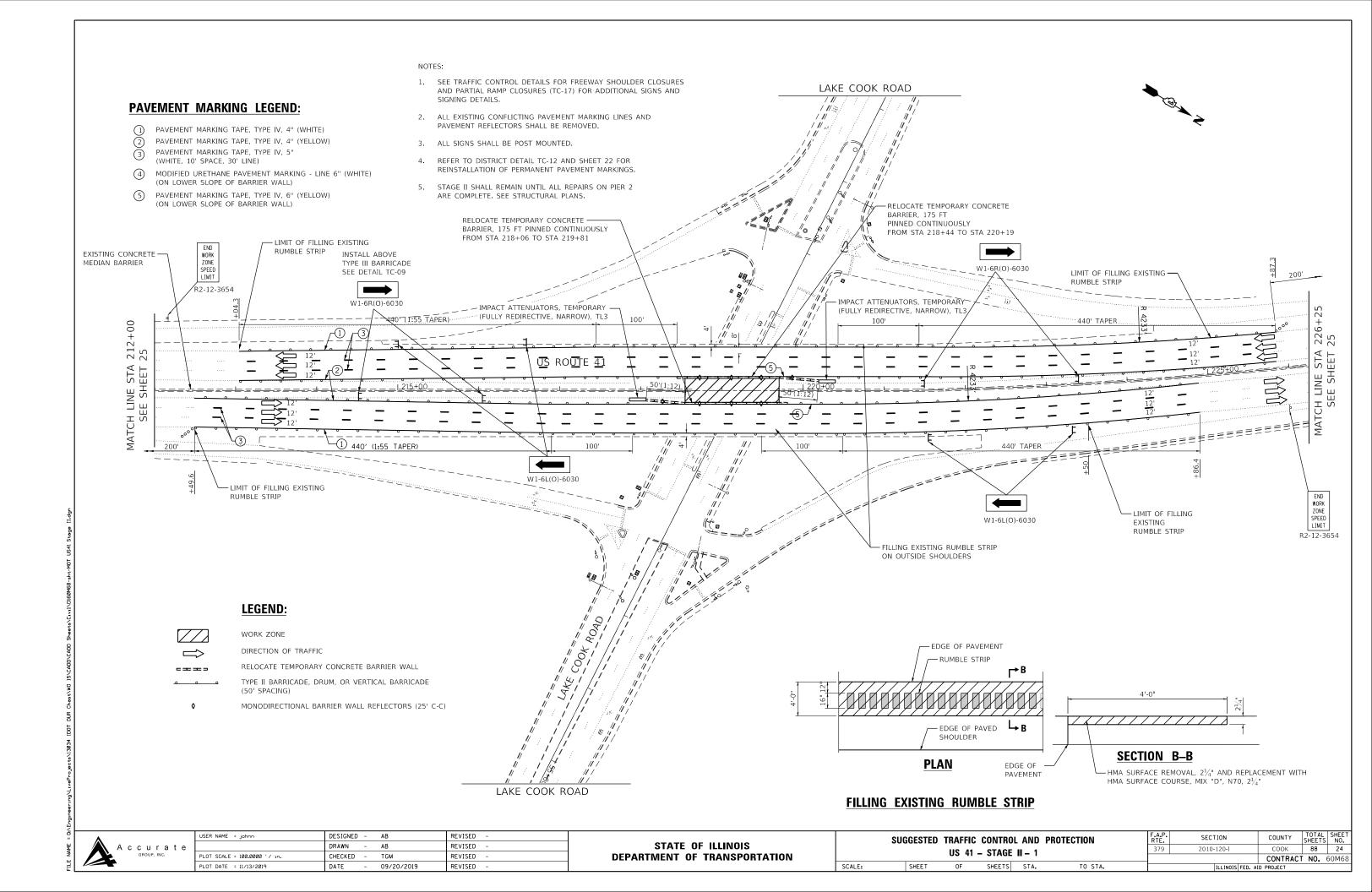


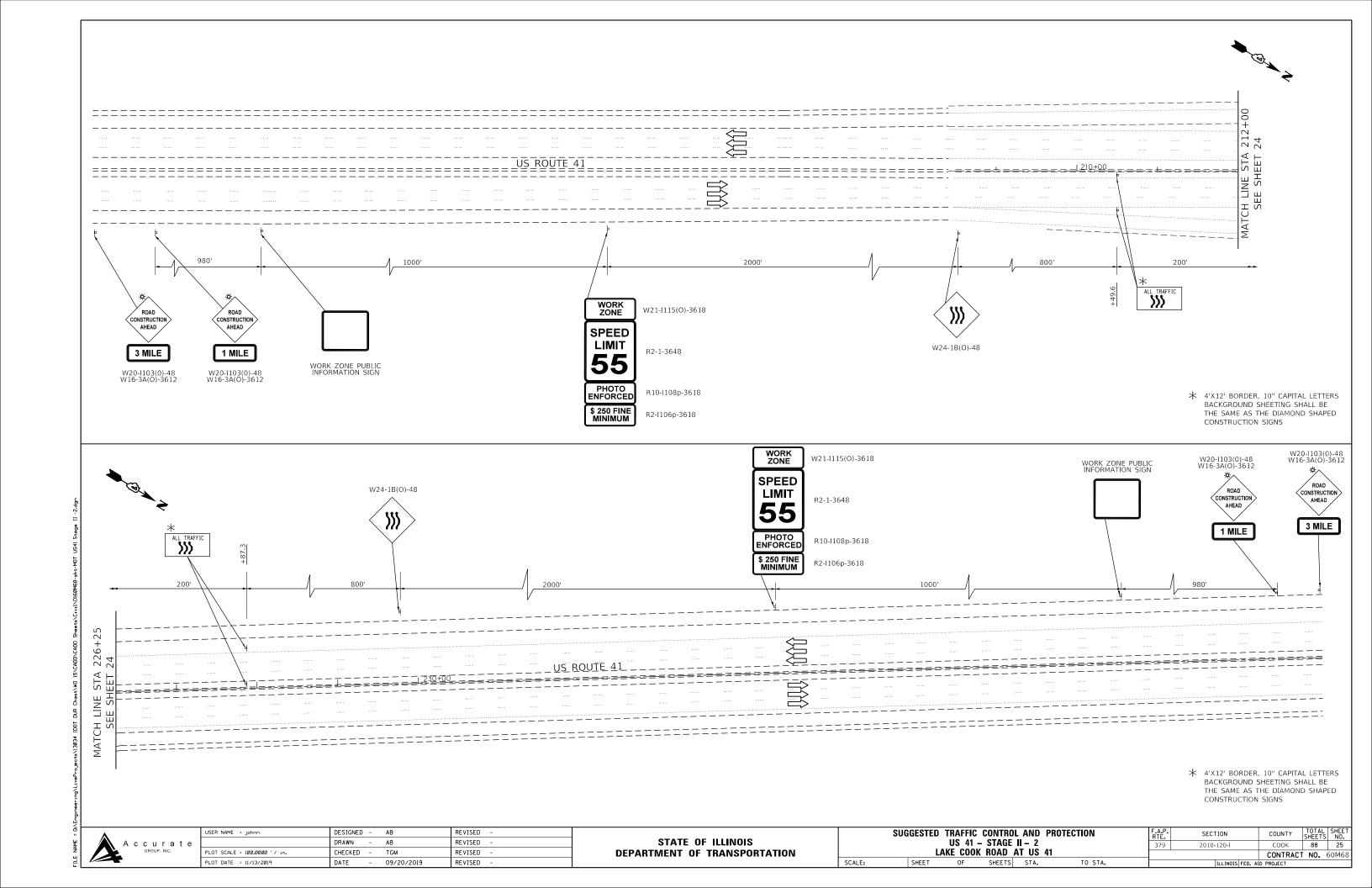
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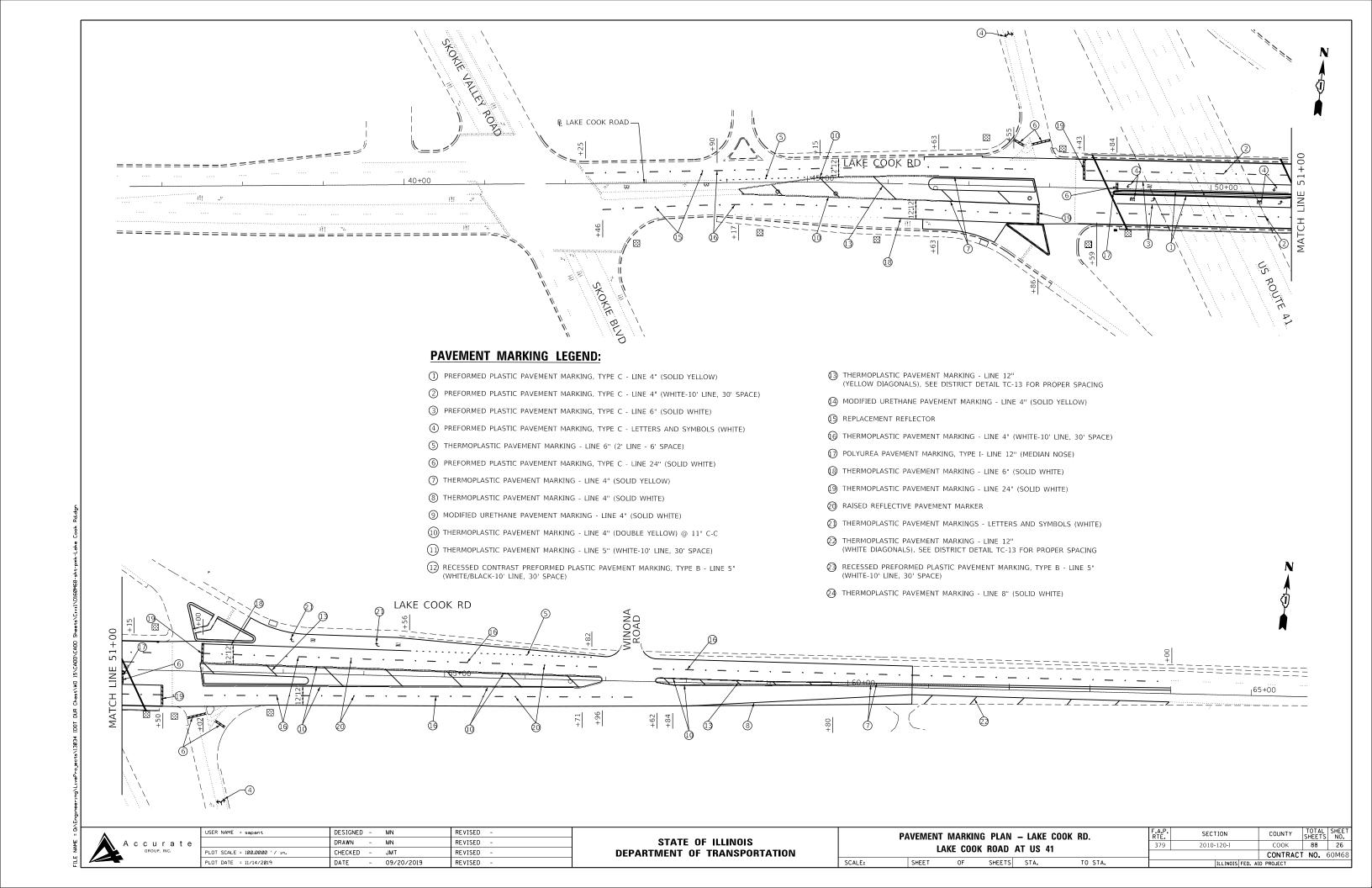
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

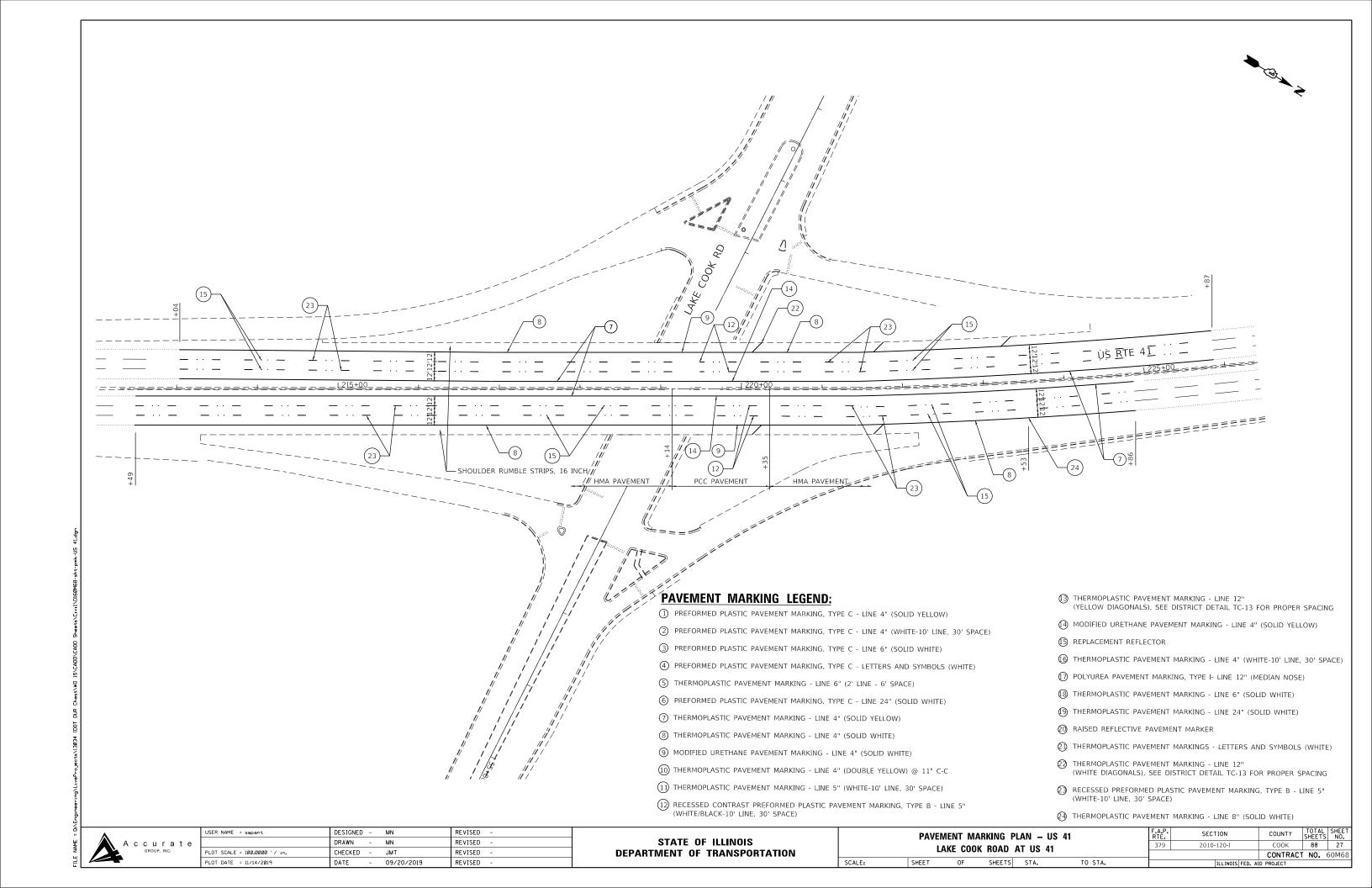
SCALE:

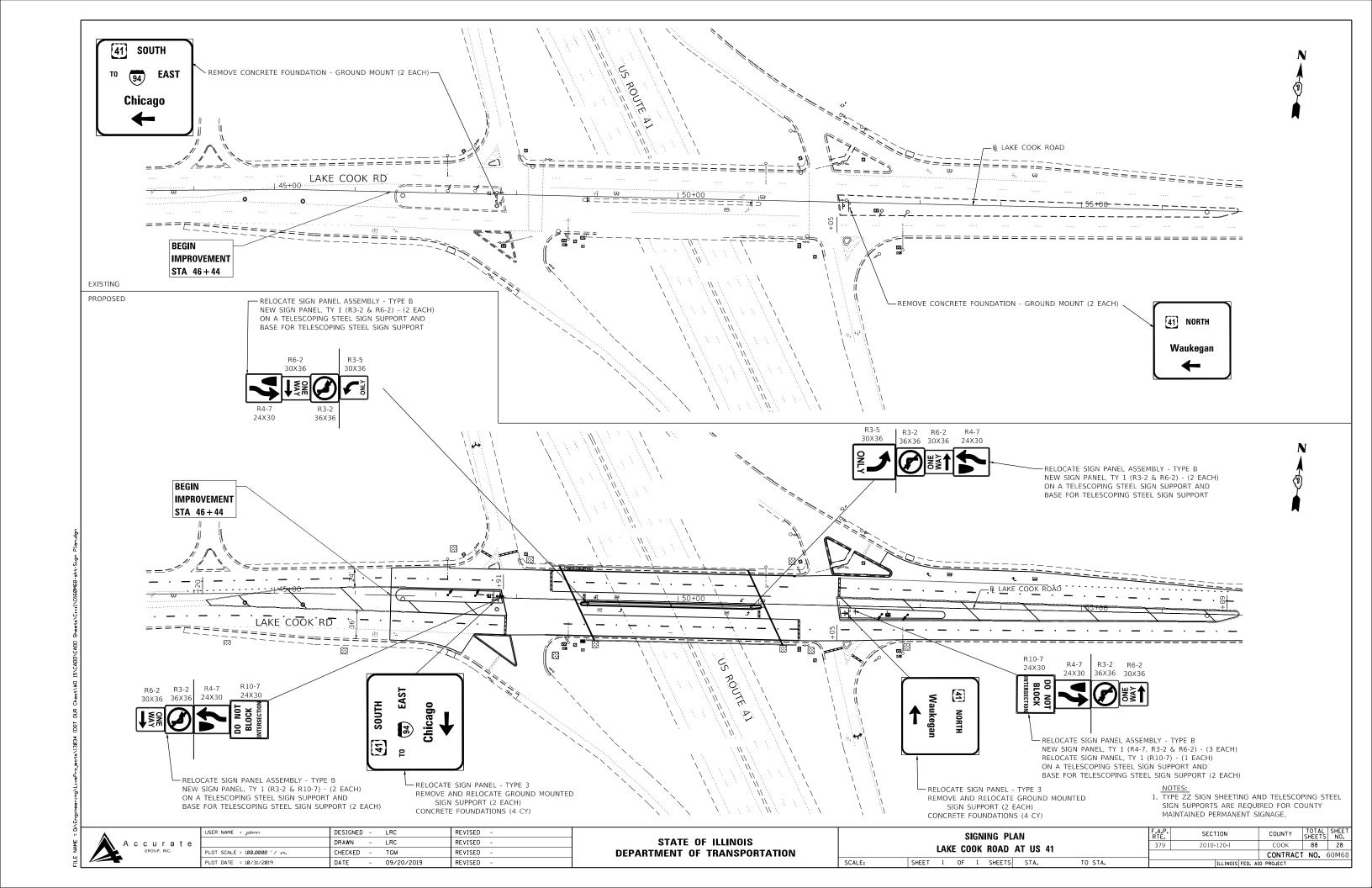
SECTION SUGGESTED TRAFFIC CONTROL AND PROTECTION 2010-120-I US 41 - STAGE I CONTRACT NO. 60M68 SHEET SHEETS STA. TO STA.

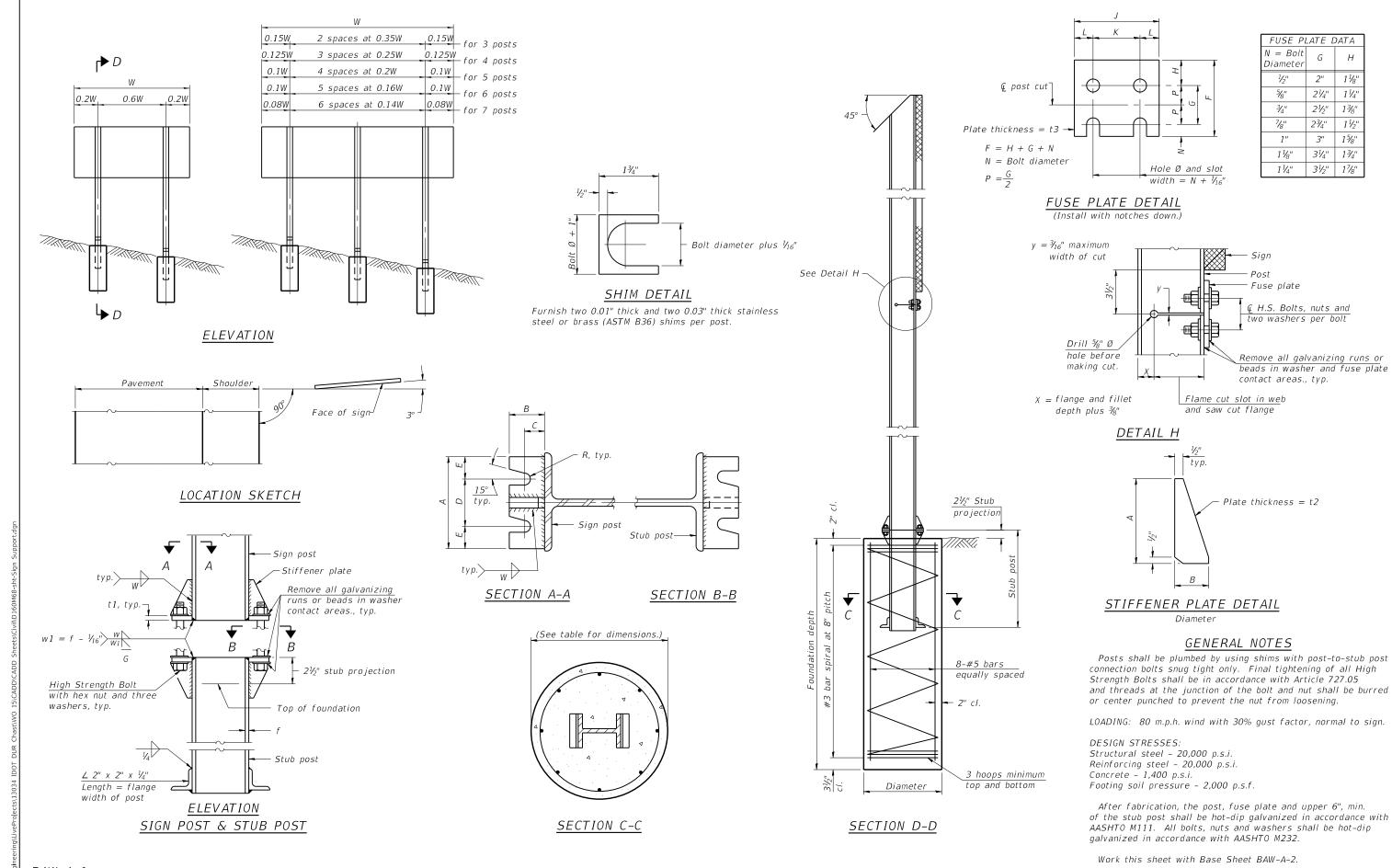












BAW-A-1

2-17-2017

USER NAME = Johnn DESIGNED - SAT REVISED -CHECKED - JMT REVISED -OT SCALE = 0:2.0000 '." / in. REVISED -PLOT DATE = 10/31/2019 CHECKED - SPS REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **BREAK-AWAY WIDE FLANGE** STEEL SIGN POST DETAILS OF S-21 SHEETS

(Sheet 1 of 2)

SECTION COUNTY 379 2010-120-COOK 88 28A CONTRACT NO. 60M68

21/4"

21/2"

2¾"

13/8"

11/2"

3" | 15/8"

31/4" | 13/4"

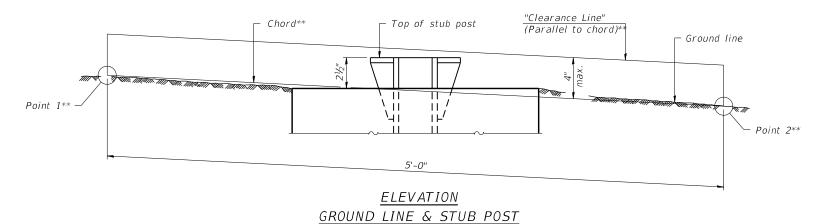
31/2" | 17/8"

upport	
Ō	
0160M68-sht-Sign	
Sheets\Civil\[
15\CADD\CADD	
Chast\W0	
BI	
4 IDOT	
eProjects\1303	
\Engineering\Live	
0	

	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
POST		Foundatio	n	Re	einforcem	ent		Stub Post														
7 037	Diameter	* Minimum * Depth	Concrete① cu. yds.)		Bar S Diameter	Spirals Length	Ibs. 2	Length	Bolt Size	Α	В	С	D	Ε	t 1	t2	R	W	J	K	L	t3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-3"	5⁄8" x 31⁄4"	6"	21/4"	11/4"	31/2"	11/4"	3/4"	1/2"	11/32"	1/4"	4"	21/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-6"	5⁄8" x 31⁄4"	6"	21/4"	11/4"	31/2"	11/4"	3/4"	1/2"	11/32"	1/4"	6"	31/2"	11/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-81/2"	79'-0"	78	2'-6"	¾" x 3¾"	6"	21/2"	13/8"	31/4"	1¾"	1"	1/2"	13/32"	5∕ ₁₆ "	51/4"	23/4"	11/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-21/2"	105'-0"	92	3'-0"	3/4" x 33/4"	6"	21/2"	13/8"	31/4"	1¾"	1"	1/2"	13/32"	5∕ ₁₆ "	5¾"	23/4"	11/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-21/2"	112'-0"	98	3'-0"	7⁄8" x 4"	7"	23/4"	11/2"	4"	11/2"	1"	3/4"	15/32"	3/8"	5¾"	23/4"	11/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-21/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	23/4"	11/2"	4"	11/2"	1"	3/4"	15/32"	3/8"	61/2"	31/2"	11/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 ¹ / ₂ "	145'-0"	113	3'-0"	7/8" x 4"	7"	23/4"	11/2"	4"	11/2"	1"	3/4"	15/32"	3/8"	6¾"	31/2"	15/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 ¹ / ₂ "	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	13/4"	4"	13/4"	11/4"	3/4"	17/32"	3/8"	6¾"	31/2"	15/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 ¹ / ₂ "	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	13/4"	4"	1¾"	1 1/4"	3/4"	17/32"	3/8"	7"	31/2"	1¾"	1/2"

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

	FUSE PLATE BOLT SIZE																				
POST											Sign	Height									
, 031	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0''	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"																	
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	5⁄8″ x 2″	%" x 2"	3/4" x 2"	¾" x 2"	¾" x 2"	3/4" x 2"	—											
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	5⁄8" x 2"	5⁄8" x 2"	3/4" x 2"	¾" x 2"	3/4" x 2"	¾" x 2"											
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2"	%" x 2"	³¼" x 2½"	3/4" x 2 ¹ /4"	¾" x 2¼"	¾" x 2¼"	³¼" x 2½"	¾" x 2¼"								
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 21⁄4"	5⁄8" x 2¹⁄₄"	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 2 ¹ /2"	¾" x 2½"	³ / ₄ " x 2 ¹ / ₂ "	¾" x 2½"	¾" x 2½"	³ / ₄ " x 2 ¹ / ₂ "							
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2¹⁄4"	%" x 2¼"	¾" x 2½"	3/4" x 2 ¹ /2"	¾" x 2½"	¾" x 2½"	¾" x 2½"	³ / ₄ " x 2 ¹ / ₂ "	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 21/2"			_			
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2"	5⁄8" x 2"	³ / ₄ " x 2 ¹ / ₄ "	3/4" x 21/4"	3/4" x 2 ¹ /4"	¾" x 2¼"	¾" x 2¼"	3/4" x 2 ¹ /4"	³ / ₄ " x 2 ¹ / ₄ "	3/4" x 21/4"	³ / ₄ " x 2 ¹ / ₄ "	3/4" x 21/4"				
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5/8" x 2 ¹ / ₄ "	5⁄8" x 21⁄4"	³½" x 2½"	3/4" x 21/2"	3/4" x 2 ¹ / ₂ "	3/4" x 2 ¹ / ₂ "	7/8" x 2½"	7/8" x 2¹/₂"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45		½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	5⁄8" x 2¹√4"	5/8" x 2 ¹ / ₄ "	5⁄8" x 21∕4"	³ / ₄ " x 2 ¹ / ₂ "	3/4" x 2 ¹ / ₂ "	7/8" x 2¹/2"	½" x 2½"	½" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



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

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

BAW-A-2

2-17-2017

A c c u r a t e

USER NAME =	Johnn	DESIGNED -	SAT	REVISED -
		CHECKED -	JMT	REVISED -
PLOT SCALE =	0:2.0000 ':" / in.	DRAWN -	IH	REVISED -
PLOT DATE =	10/31/2019	CHECKED -	SPS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

(Shee	t 2	of .	2)	
BREAK-AWA	ΥV	VIDE	FLANGE	
STEEL SIGN	P	OST	TABLES	
CHEET	ΩE	C 21	CHEETC	

TRAFFIC SIGNAL LEGEND (NOT TO SCALE)

				(NOT TO BOALL)				
ITEM	EXISTING	<u>PROPOSED</u>	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes		HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R R Y Y	R R Y
COMMUNICATION CABINET	ECC	СС	-ROUND					Y
MASTER CONTROLLER	EMC	MC	HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	Н Ө			G G 4Y 4Y 4G 4G
MASTER MASTER CONTROLLER	ЕММС	ммс	DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		R R R
UNINTERRUPTABLE POWER SUPPLY	4	4	JUNCTION BOX		0	-(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION	- <u>-</u> -	- P	RAILROAD CANTILEVER MAST ARM	X OX X	X eX X X			<u>47</u> <u>47</u> <u>47</u>
-(P) POLE MOUNTED SERVICE INSTALLATION		_	RAILROAD FLASHING SIGNAL	∑⊖∑	XeX		P RB	P RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	™ G M	RAILROAD CROSSING GATE	X 0 X>	X+X-	PEDESTRIAN SIGNAL HEAD		
TELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK	举	*	AT RAILROAD INTERSECTIONS	()	*
STEEL MAST ARM ASSEMBLY AND POLE	O	•——	RAILROAD CONTROLLER CABINET		≯ ∢	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	© C (*) D	₽ C ★ D
ALUMINUM MAST ARM ASSEMBLY AND POLE	0		UNDERGROUND CONDUIT (UC), GALVANIZED STEEL	====				
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	o-¤—	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	 ● BM 	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.		
			INTERSECTION ITEM	I	ΙΡ	ALL DETECTOR LOOP CABLE TO BE SHIELDED		
WOOD POLE	⊗ .	•	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	(1*6)	(1*6)
GUY WIRE	<u>></u>	≻	RELOCATE ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER		
SIGNAL HEAD WITH BACKPLATE	> +->	+>	ABANDON ITEM		А	NO. 14 1/C	,	
	P P	→ P + → P	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	COAXIAL CABLE	<u> </u>	<u> </u>
SIGNAL HEAD OPTICALLY PROGRAMMED FLASHER INSTALLATION		F FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(FS) SOLAR POWERED		F FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	<u>6*18</u>	——6*18 —
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	—(12F)—
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	⊚		PREFORMED DETECTOR LOOP	[P] (P)	P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	— <u>(24F)</u> —	—(24F)—
RADAR DETECTION SENSOR	R	R	SAMPLING (SYSTEM) DETECTOR	[S] (S)	s s		—(36F)—	—(36F)—
VIDEO DETECTION CAMERA	V 1	V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	[<u>is]</u> (<u>is</u>)	IS (S)		<i>,</i>	
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING	[05] (0\$)	as (s)	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u>CMPS</u>	$\underline{\dot{\exists}}^{C} \underline{\dot{\exists}}^{M} \underline{\dot{\exists}}^{P} \underline{\dot{\exists}}^{S}$
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ	(SYSTEM) DETECTOR WIRELESS DETECTOR SENSOR	"" \-/ ®	™	-(M) MAST ARM -(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bowtie	~	WIRELESS ACCESS POINT		_			
CONFIMATION BEACON	o-()	•-	TAREESS AGESS FORT		_			
WIRELESS INTERCONNECT	○ + 	<u>•++ </u>						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						

USER NAME = leysa

PLOT DATE = 9/29/2016

DESIGNED - IP DRAWN - IP CHECKED - LP
DATE - 9/29/2016

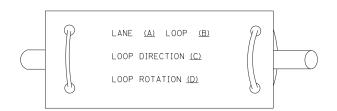
REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

STATE	OF.	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

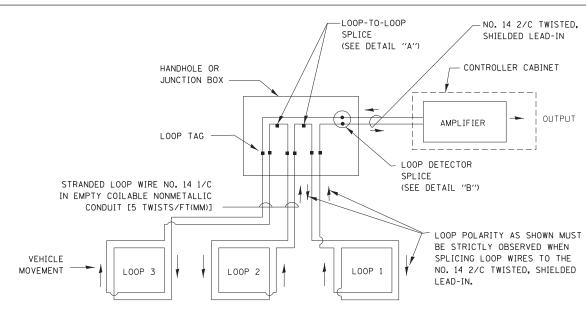
		DIST	RICT OI	NE		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
	STANDARD	TRAFFIC	SIGNA	L DESIGN	DETAILS	379	2010-120-I	COOK	88	29
	UIANDAND	IIIAIIIO	JIGIVA	DESIGN			TS-05	CONTRACT	NO. 6	6M0
SCALE: NONE	SHEET 1	OF 7	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

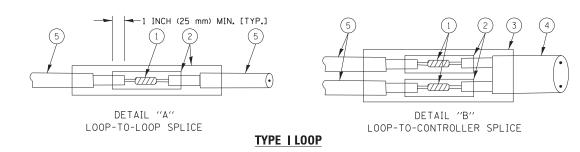


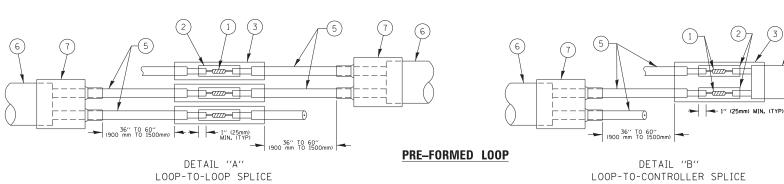
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IE IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.





LOOP DETECTOR SPLICE

- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

SCALE: NONE

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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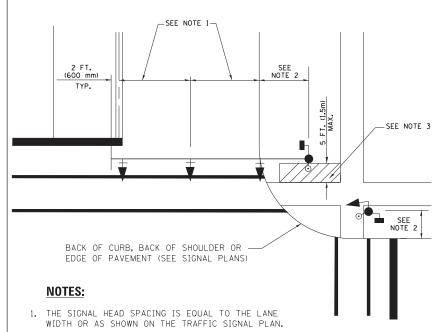
DESIGNED -DAD REVISED DAG 1-1-14 FILE NAME USER NAME = footem DRAWN BCK REVISED c:\pw_work\pwidot\footemj\d0108315\ts05 HECKED DAD REVISED PLOT DATE = 1/13/2014 DATE 10-28-09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY DISTRICT ONE 379 2010-120-1 COOK STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-05 CONTRACT NO.60M68 SHEET NO. 2 OF 7 SHEETS STA.

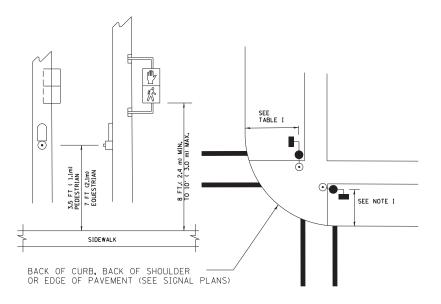
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TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALKBICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



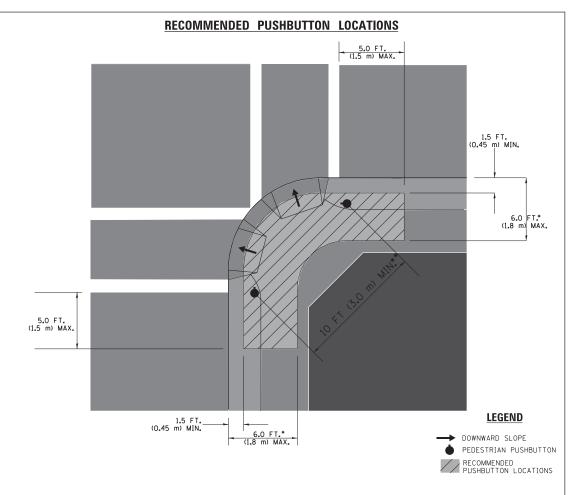
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST
- 4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK,
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)				
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)				
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)				
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)				
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)				
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)				
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.				
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.				

NOTES:

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

SCALE: NONE

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

				F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				379	2010-120-I	COOK	88	31			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS					TS-05 CONTRACT NO. 60M68						
ΝE	SHEET NO. 3	OF 7	SHEETS	STA.	TO STA.		FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

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DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SHEET NO. 4 OF 7 SHEETS STA.

SCALE: NONE

TS-05

CONTRACT NO. 60M68

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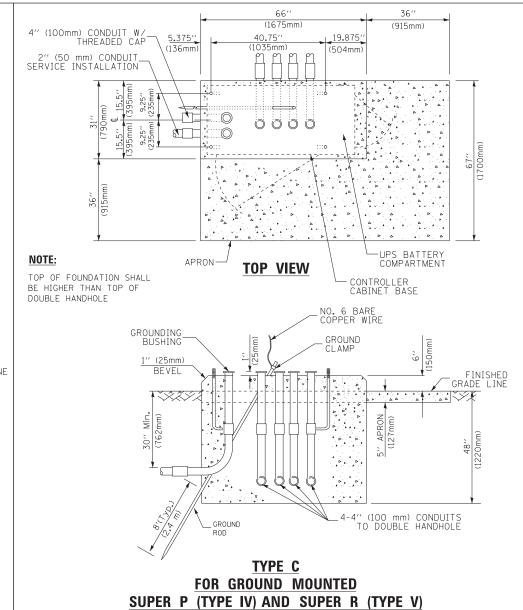
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CONTROLLER CABINETS

SEE NOTE 5

| GENOTE 3 | GENOTE 3

- 1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" × 44" (660mm × 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

TYPE C - CONTROLLER W/ UPS	4'-0'' (1.2m)
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SOUARE	4'-0'' (1.2m)

DEPTH

FOUNDATION

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30'' (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

NOTES:

- 1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Ou) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- 3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

4. For most arm assemblies with dual arms refer to state standard 878001..

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS					SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					2010-120-I	COOK	88	33
					TS-05	CONTRACT NO. 60M68		
SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

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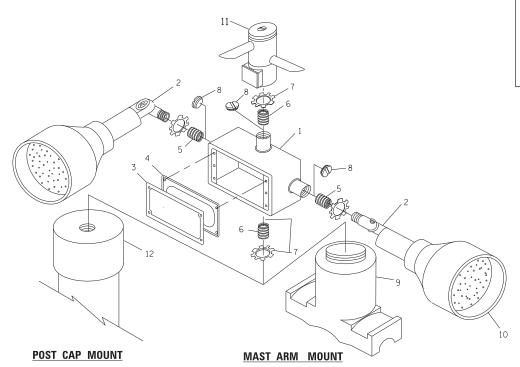
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- 1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- 2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- 3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH



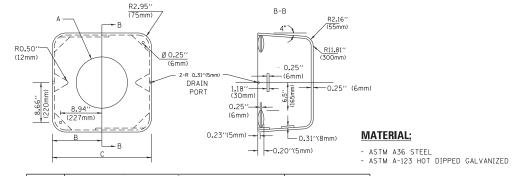
(1675mm) (915mm) 19.875" 5.375" 40.75" (136mm) (1035mm) (504mm) PROPOSED -APRON -CONTROLLER CABINET BASE **TOP VIEW** NO. 3 DOWEL 18" (450mm) LONG (8 REQ.) BUSHING -GROUND ANCHOR BOLTS 1''(25mm) BEVEL GRADE LINE (ŽOOmm) (300mm) -EXISTING CONDUITS EXISTING GROUND ROD MODIFY EXISTING TYPE "D" FOUNDATION

TO TYPE "C" FOUNDATION

1 OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER REDUCING BUSHING 3/4"(19 mm) CLOSE NIPPL 3/4"(19 mm) LOCKNUT 8 ¾'(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 12 POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

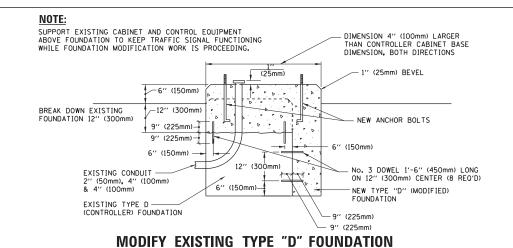
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4 "(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP. EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



А	В	С	HEIGHT	WEIGHT
VARIES	9.5′′(241mm)	19''(483mm)	7'' (178mm) - 12'' (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7'' (178mm) - 12'' (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5''(470mm)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



TO BE REMOVED EXISTING CONDUIT TO REMAIN PLAN ELEVATION

SCALE: NONE

- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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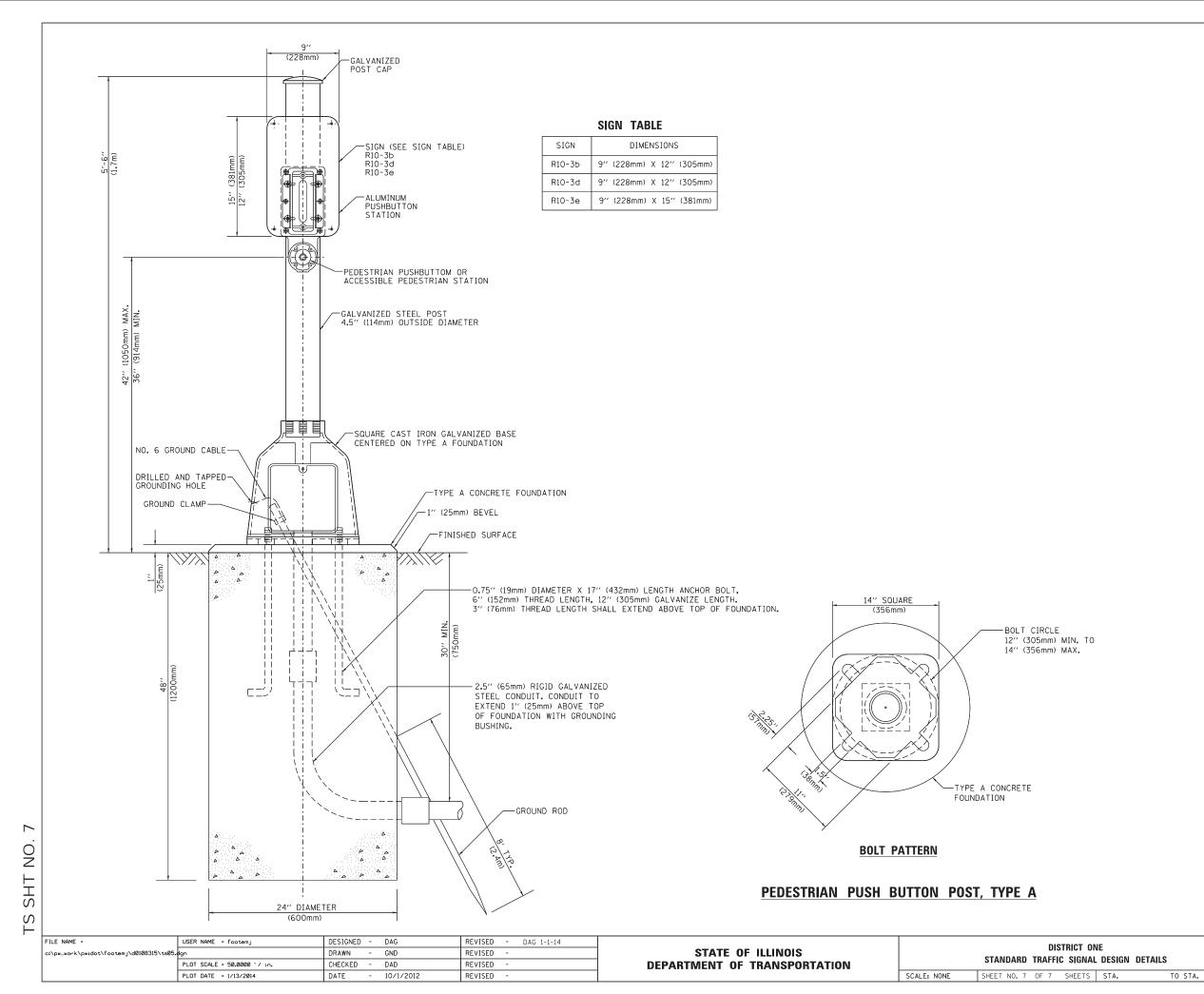
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY DISTRICT ONE 88 34 379 2010-120-I COOK STANDARD TRAFFIC SIGNAL DESIGN DETAILS CONTRACT NO. 60M68 TS-05 SHEET NO. 6 OF 7 SHEETS STA.

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COUNTY TOTAL SHEET NO.

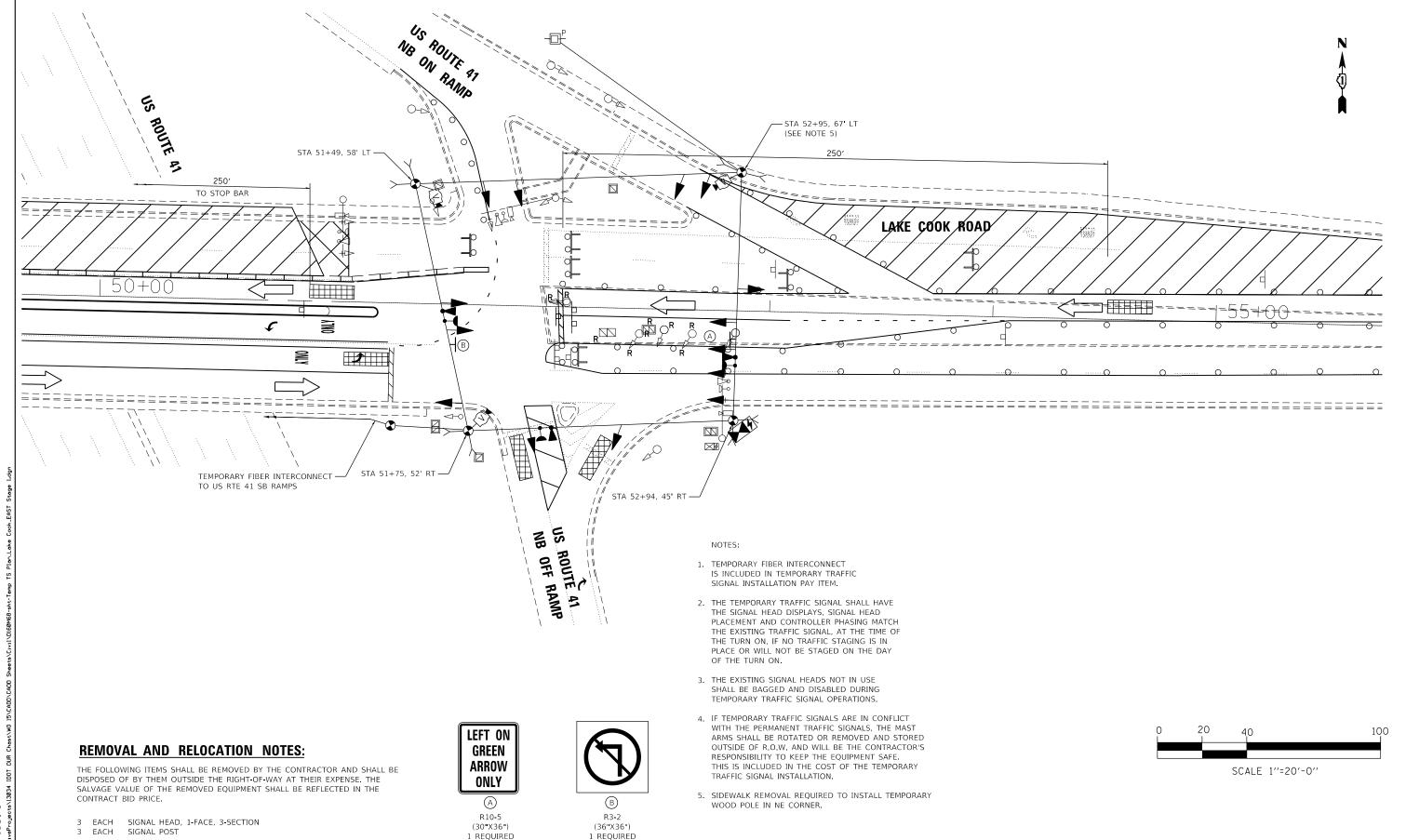
COOK 88 35

CONTRACT NO. 60M68

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TS-05

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



TS SHT NO.8

Accurate GROUP, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

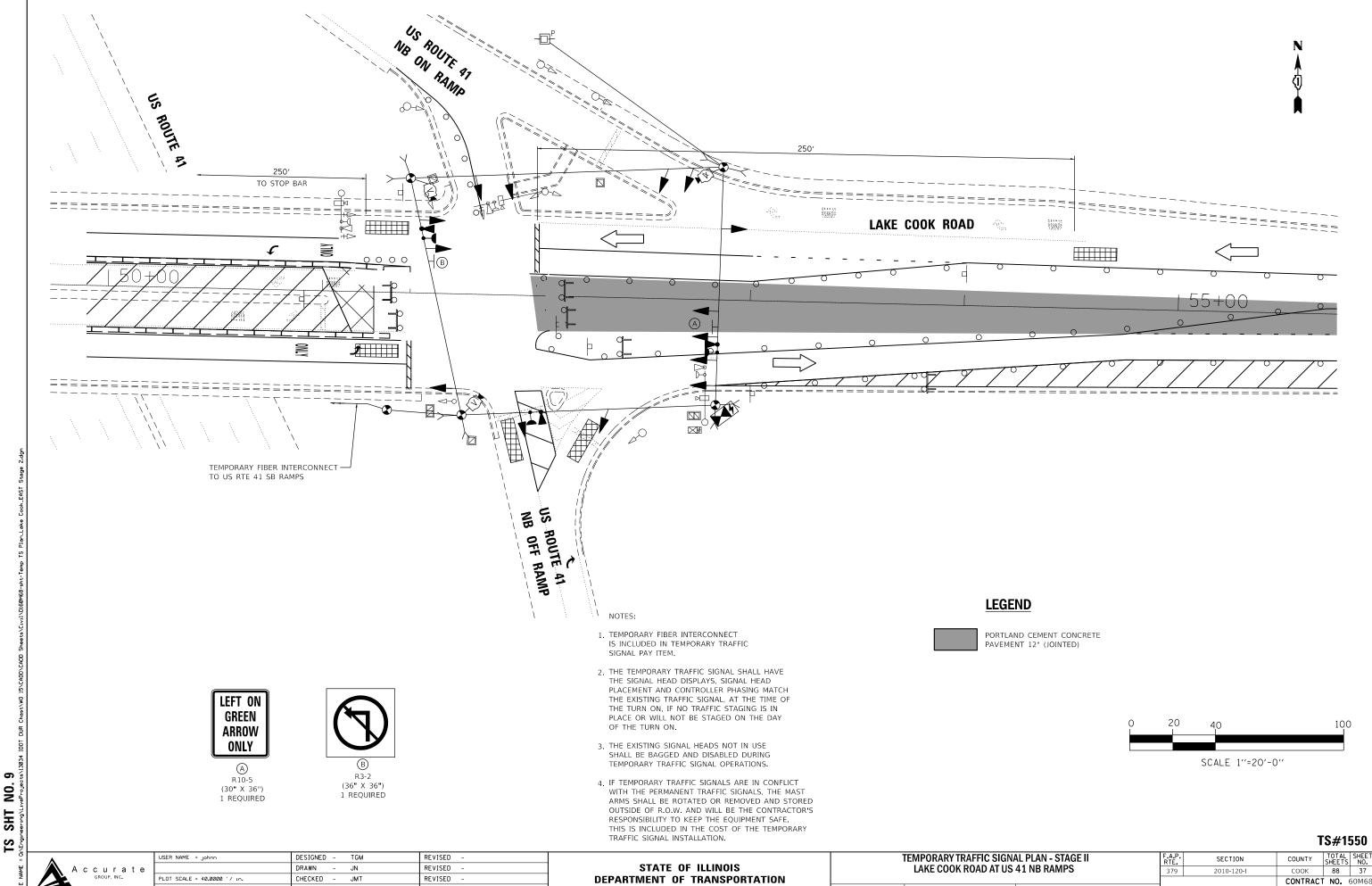
REMOVE EXISTING TRAFFIC SIGNAL AND TEMPORARY
TRAFFIC SIGNAL INSTALLATION PLAN - STAGE I
LAKE COOK ROAD AT US 41 NB RAMPS
SHEET 15-08 OF T5-23 SHEETS STA. TO STA.

F.A.P. SECTION COUNTY TOTAL SHEETS NO.

379 2010-120-I COOK 88 36

CONTRACT NO. 60M68

TS#1550



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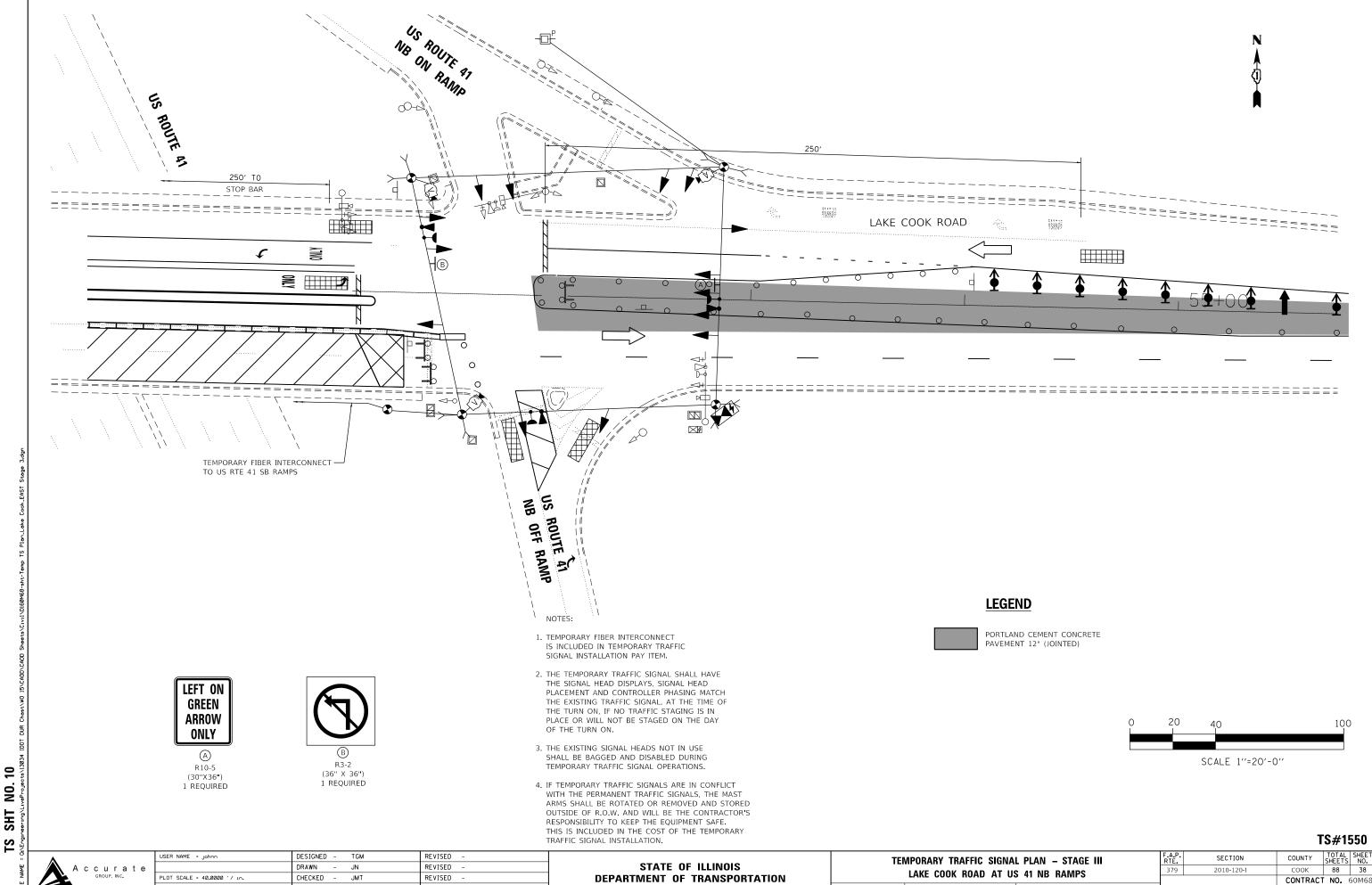
SHEET TS-09 OF TS-23 SHEETS STA.

PLOT DATE = 10/31/2019

DATE

- 09/20/2019

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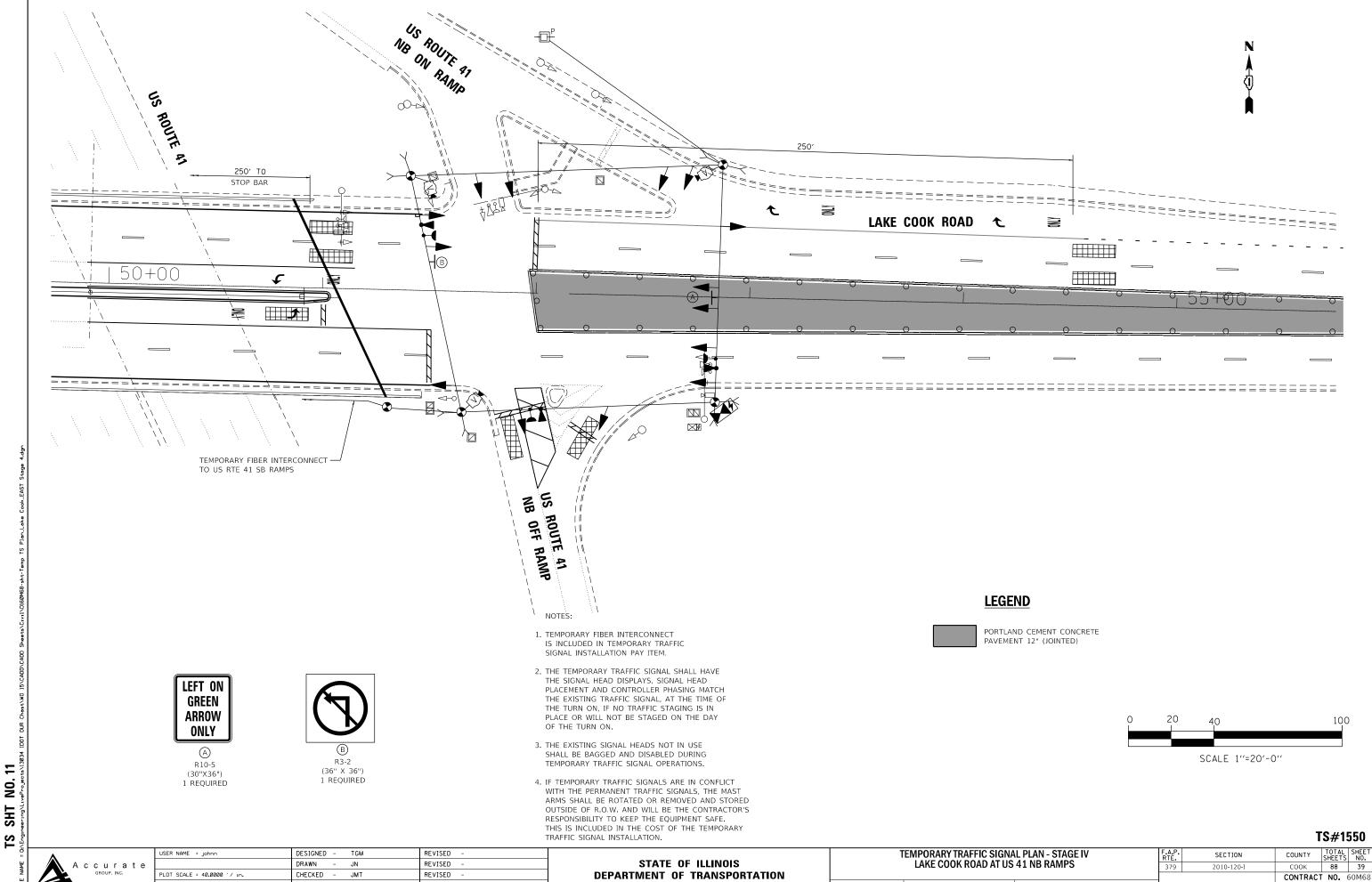
SHEET TS-10 OF TS-23 SHEETS STA.

PLOT DATE = 10/31/2019

DATE

- 09/20/2019

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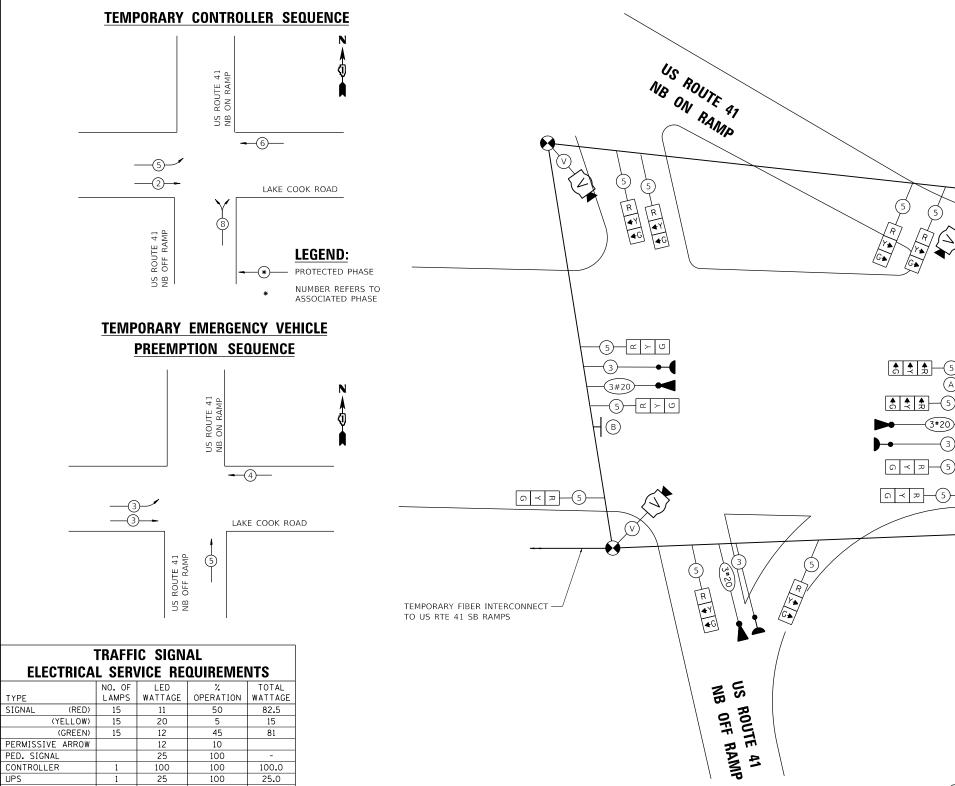
SHEET TS-11 OF TS-23 SHEETS STA.

PLOT DATE = 10/31/2019

DATE

- 09/20/2019

REVISED



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TYPE	LAMPS	WATTAGE	OPERATION	WATTAGE
SIGNAL (RED)	15	11	50	82.5
(YELLOW)	15	20	5	15
(GREEN)	15	12	45	81
PERMISSIVE ARROW		12	10	
PED. SIGNAL		25	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
ILLUM. SIGN	-	35	5	-
FLASHER	-	25	50	-
			TOTAL =	453.5

ENERGY COSTS TO:

Illinois Department of Transportation Division of Highways / District 1

201 W Center Court, Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: CONTACT: JEAN WILL PHONE: 847-816-5459

COMPANY: COMMONWEALTH EDISON ACCOUNT NUMBER:_

LEFT ON **TEMPORARY CABLE PLAN ARROW** N.T.S.

 \bigcirc R10-5 (30"X36") 1 REQUIRED

GREEN

ONLY

(5) K × (0)



LAKE COOK ROAD

R3-2 (36**"**X36") 1 REQUIRED

NOTES:

- 1. TEMPORARY FIBER INTERCONNECT IS INCLUDED IN TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.
- 2. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENT AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
- 3. THE EXISTING SIGNAL HEADS NOT IN USE SHALL BE BAGGED AND DISABLED DURING TEMPORARY TRAFFIC SIGNAL OPERATIONS.
- 4. IF TEMPORARY TRAFFIC SIGNALS ARE IN CONFLICT WITH THE PERMANENT TRAFFIC SIGNALS, THE MAST ARMS SHALL BE ROTATED OR REMOVED AND STORED OUTSIDE OF R.O.W. AND WILL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE EQUIPMENT SAFE. THIS IS INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

TS#1550



DESIGNED - TGM REVISED USER NAME = johnn DRAWN - GP REVISED CHECKED -REVISED PLOT DATE = 10/31/2019 DATE - 09/20/2019 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE LAKE COOK ROAD AT US 41 NB RAMPS SHEET TS-12 OF TS-23 SHEETS STA.

COUNTY TOTAL SHEET NO.

COOK 88 40 SECTION 2010-120-I CONTRACT NO. 60M68

<u>8</u>

SHT

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PLOT DATE = 10/31/2019

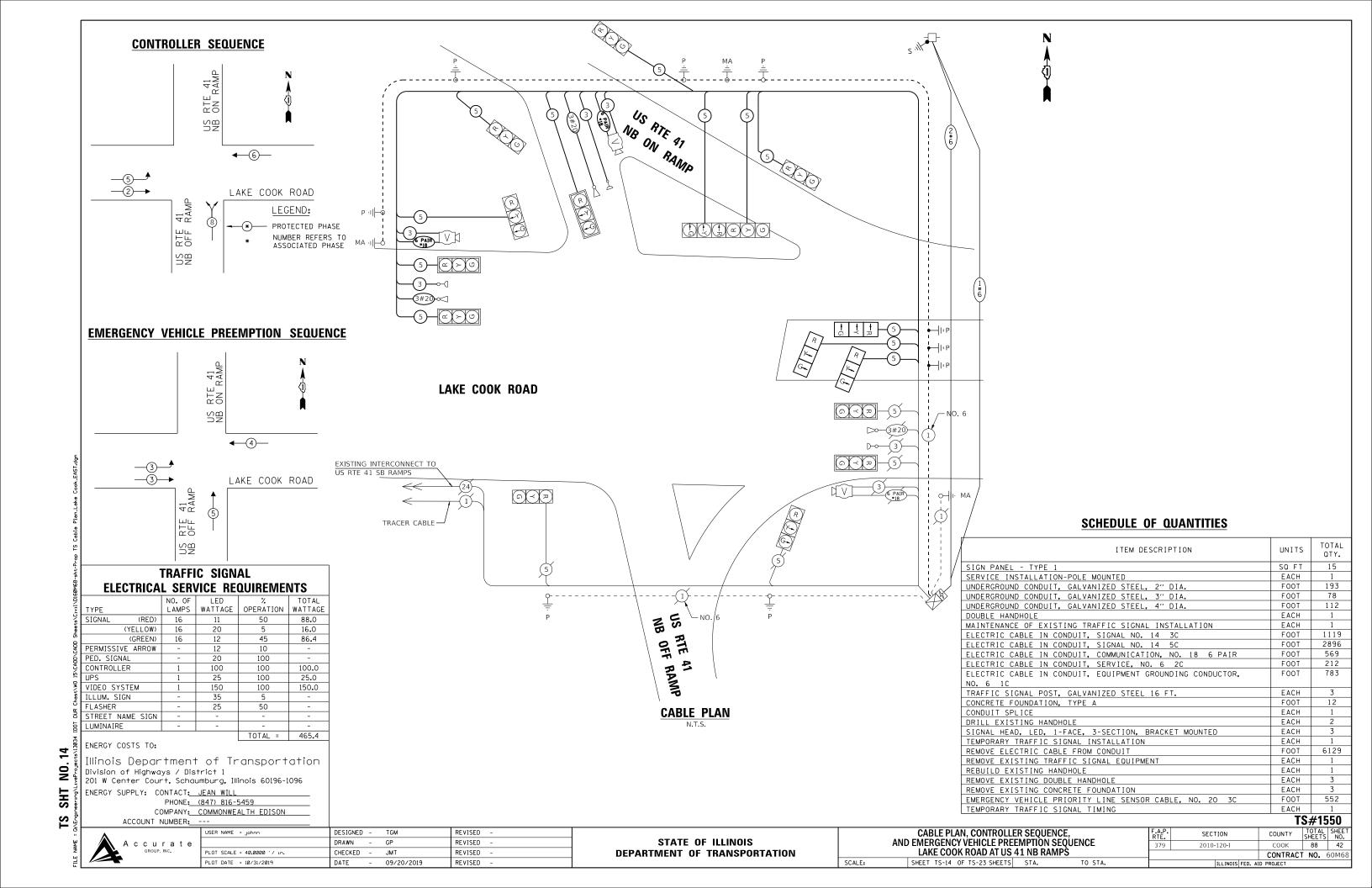
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- 09/20/2019

REVISED

OF SHEETS STA.

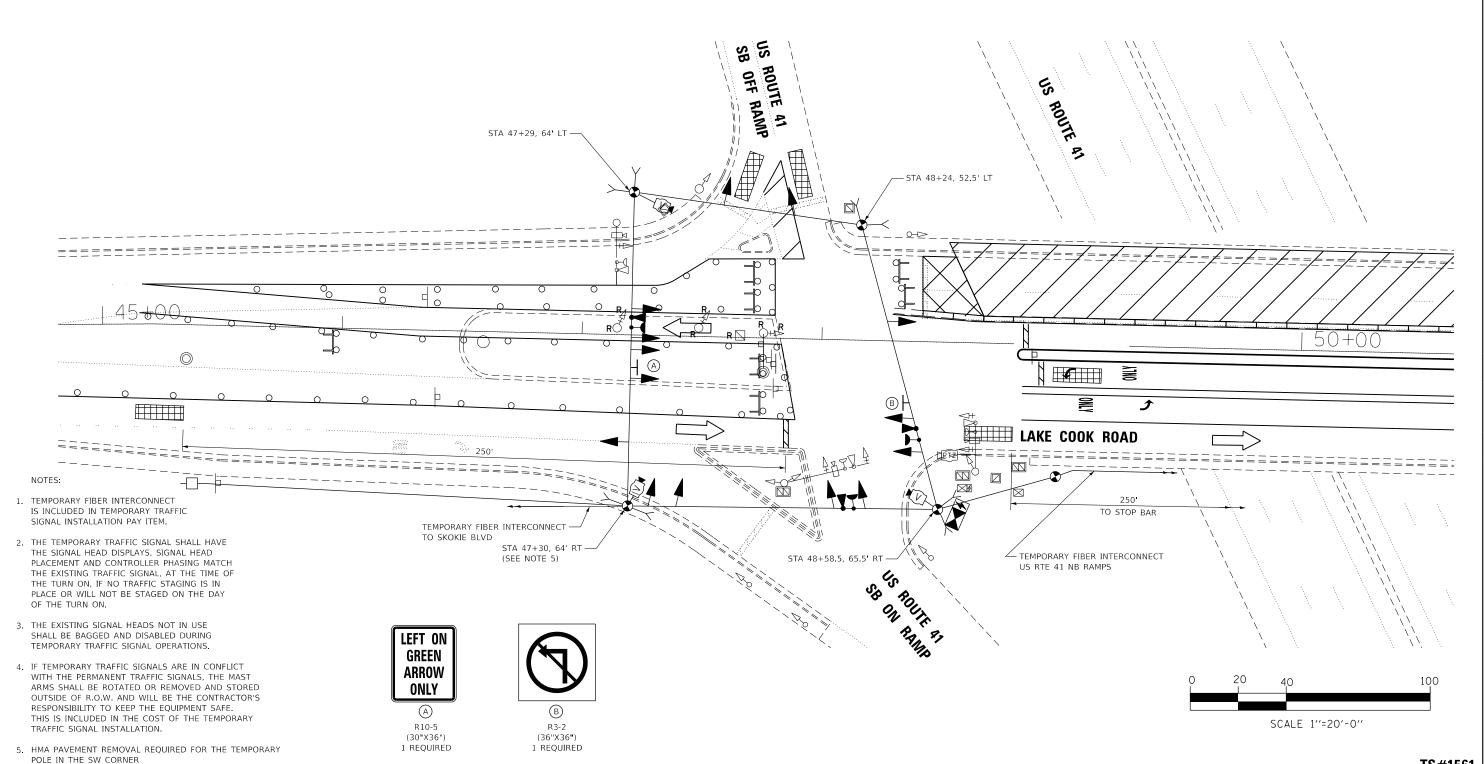
TS-13 TS-23



REMOVAL AND RELOCATION NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 3 EACH SIGNAL HEAD, 1-FACE, 3-SECTION 3 EACH SIGNAL POST



TS#1561

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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SHEET TS-15	0F TS-23	SHEETS	STA.	TO STA.

SCALE:

COUNTY TOTAL SHEET NO.

COOK 88 43 SECTION 2010-120-I CONTRACT NO. 60M68

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SHEET TS-16 OF TS-23 SHEETS STA.

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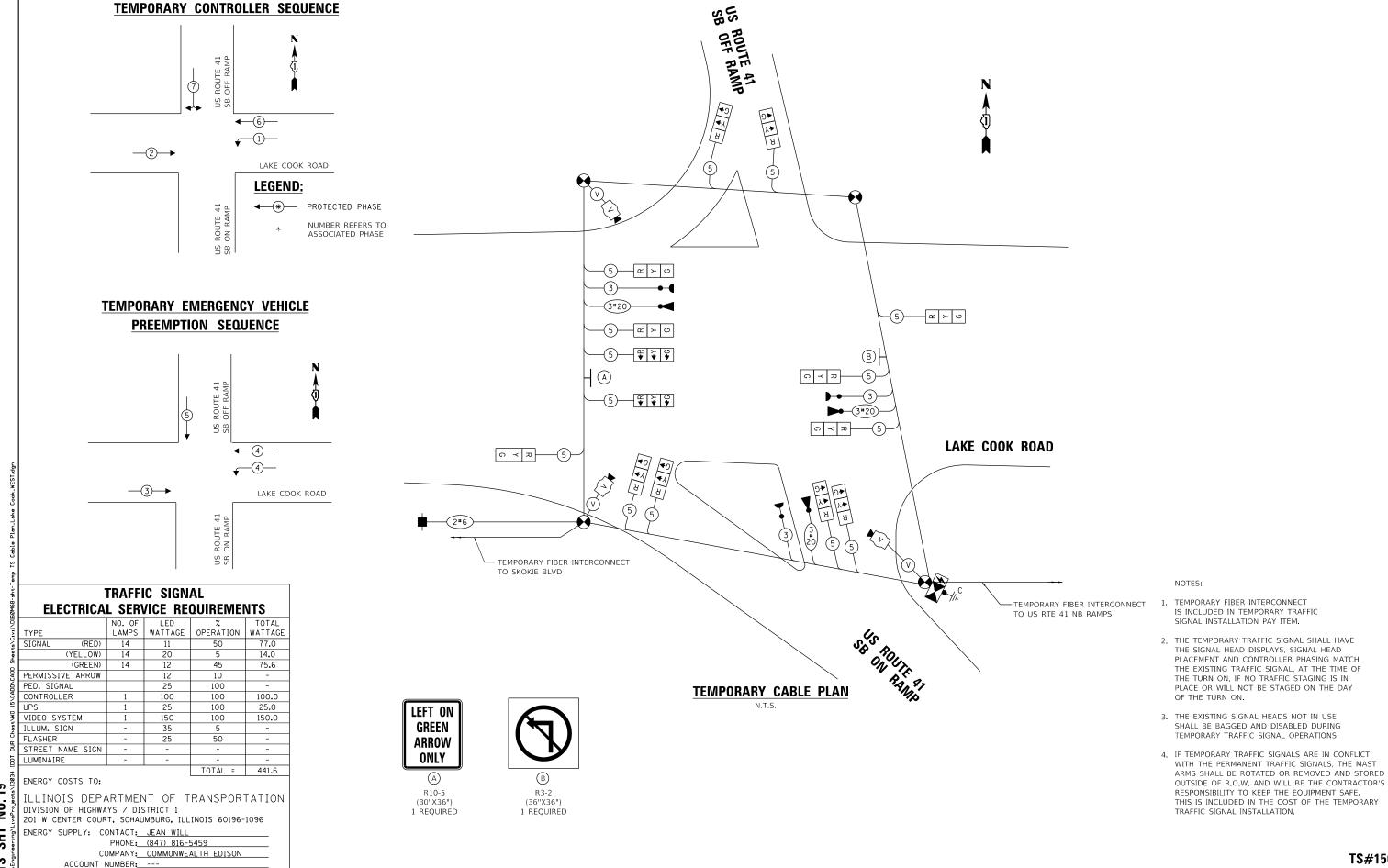
SHEET TS-17 OF TS-23 SHEETS STA.

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PLOT DATE = 10/31/2019

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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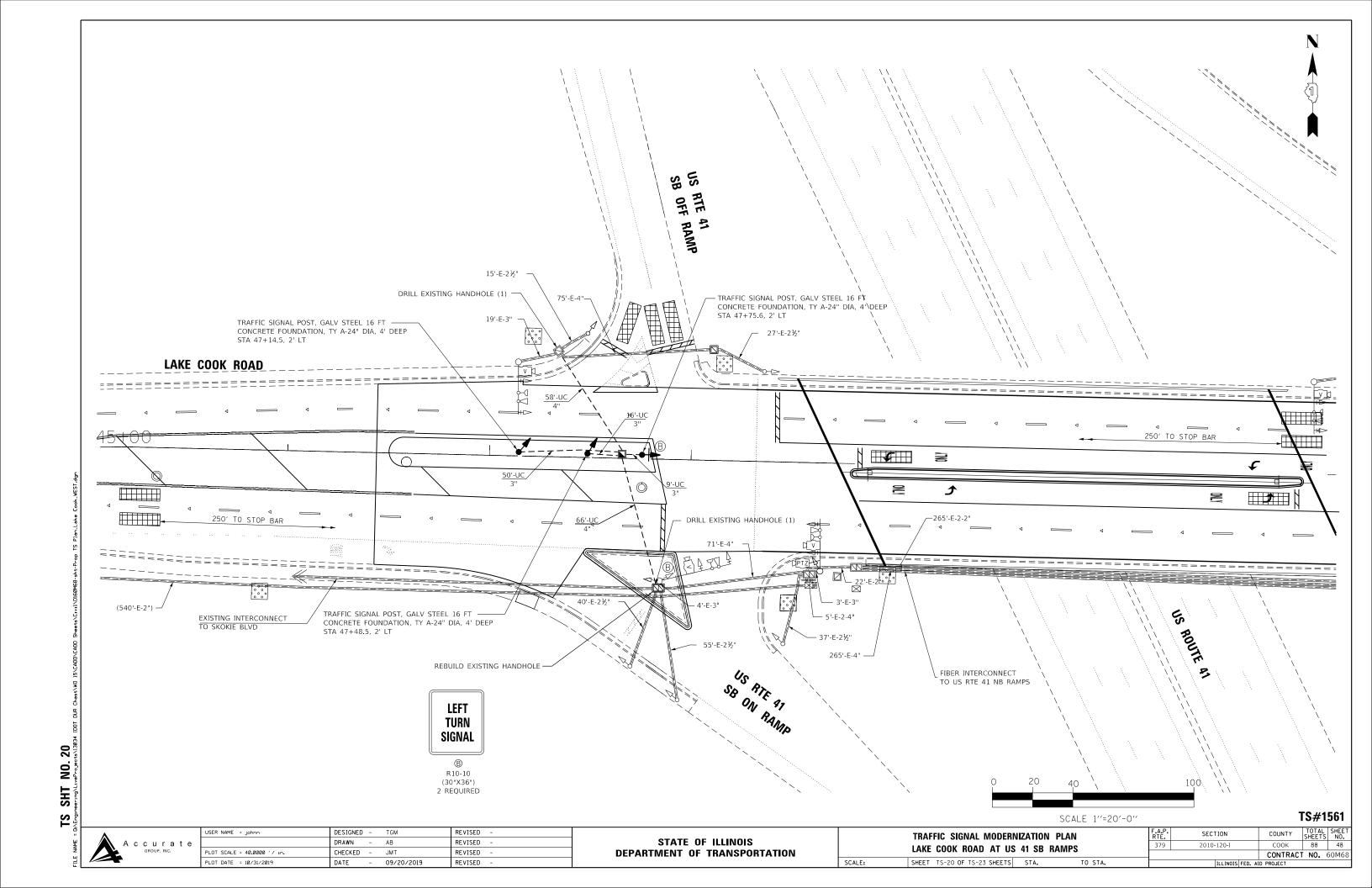
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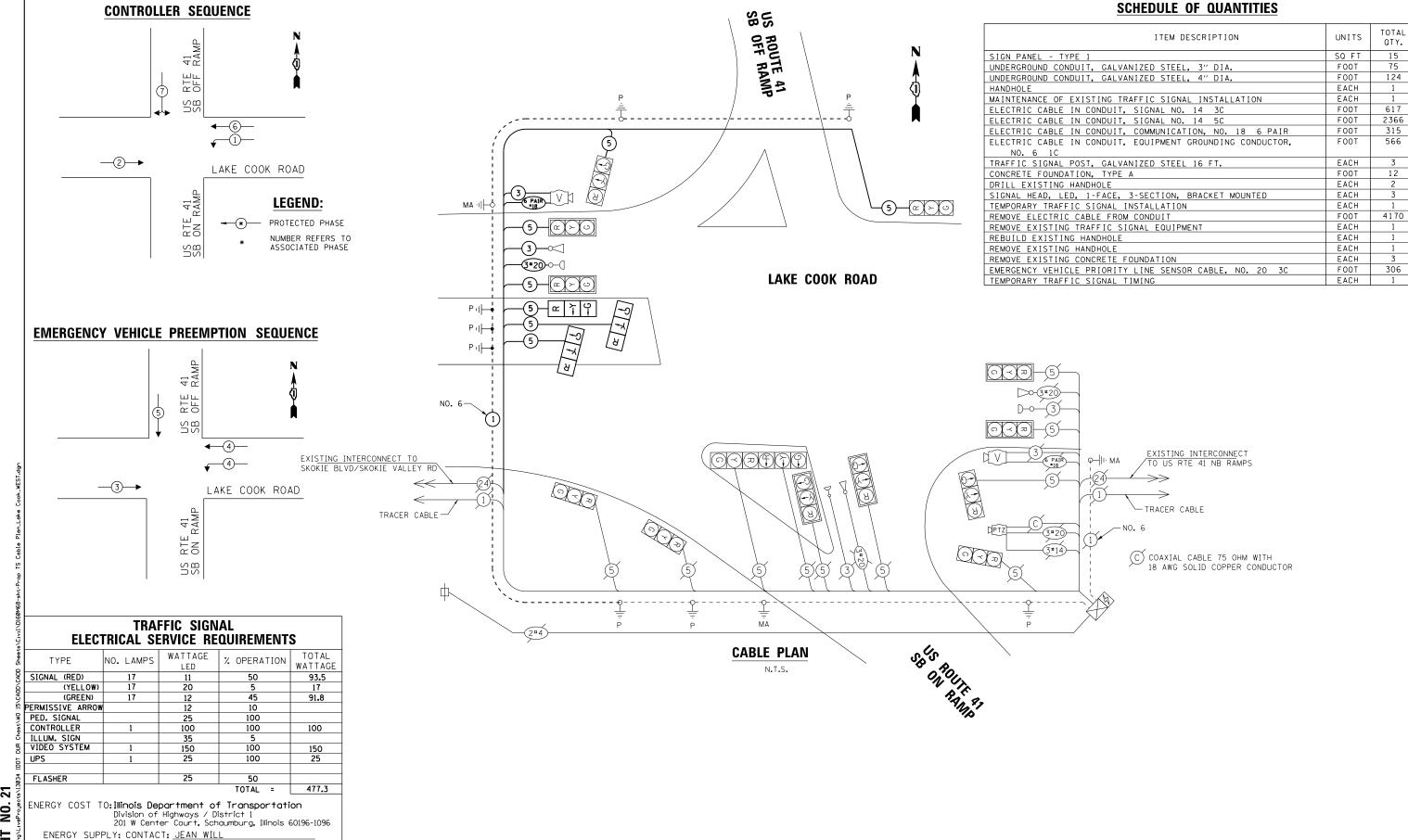
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COUNTY TOTAL SHEET NO. COOK 88 47 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM SECTION AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE 2010-120-I LAKE COOK ROAD AT US 41 SB RAMPS CONTRACT NO. 60M68 SHEET TS-19 OF TS-23 SHEETS STA.

TS#1561





TS SHT NO. 21

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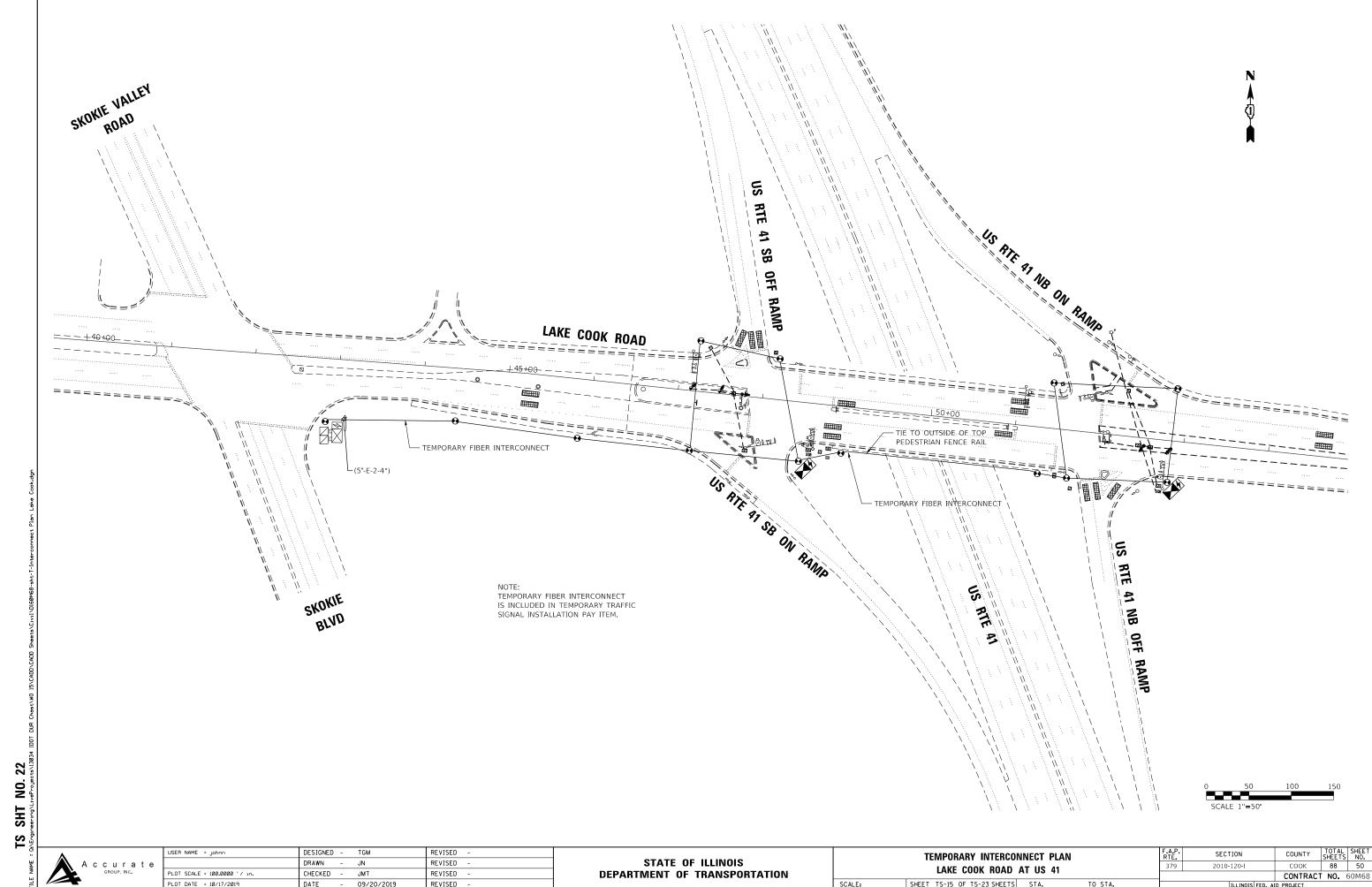
COUNTY SHEETS NO.
COOK 88 49
CONTRACT NO. 60M68

SECTION

2010-120-I

TS#1561

CABLE PLAN, CONTROLLER SEQUENCE, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE DESIGNED -TGM REVISED STATE OF ILLINOIS DRAWN AB REVISED CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** LAKE COOK ROAD AT US 41 SB RAMPS SCALE: SHEET TS-21 OF TS-23 SHEETS STA. PLOT DATE = 10/17/2019 DATE REVISED 09/20/2019



PLOT DATE = 10/17/2019 DATE - 09/20/2019 REVISED

SHEET TS-15 OF TS-23 SHEETS STA. TO STA.

C COAXIAL CABLE 75 OHM WITH
18 AWG SOLID COPPER CONDUCTOR

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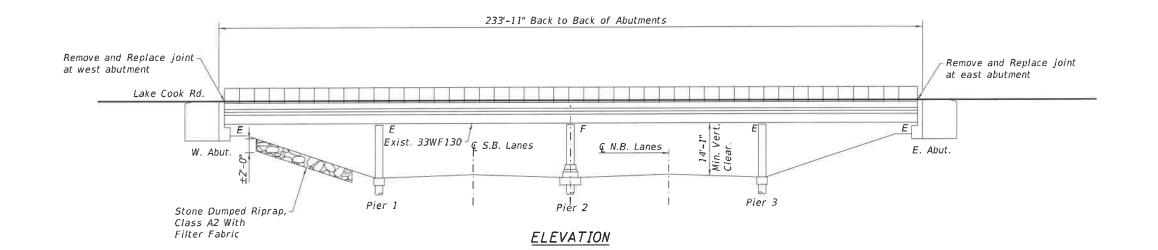
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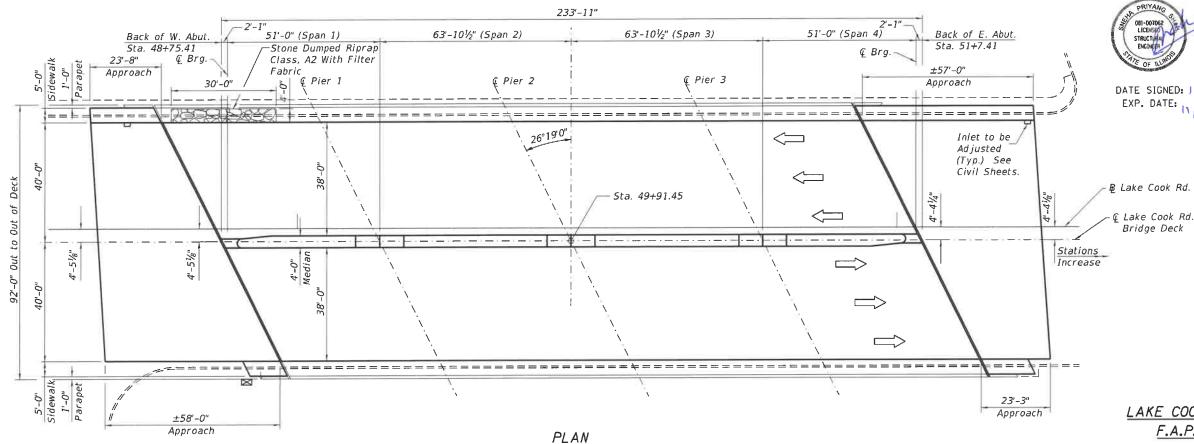
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

IS SHT NO. 23

Existing Structure: The existing structure is a 4 span steel beam bridge with a 7½" reinforced concrete deck. The original structure was built in 1950 as Section 1977-208K and reconstructed in 1982. Staged construction shall be utilized to maintain traffic during construction.

No Salvage.





Range 12E - 3rd. PM

LOCATION SKETCH

SCOPE OF WORK

- 1. Install Temporary Protective Shield over traffic as shown on sheet S-5.
- 2. Bridge deck scarification.
- Repair bridge deck.
- Replace median and close the open joint along Bridge -
- Repair approach Slab.
- Reconstruct deck joints at each abutment with preformed joint strip seal.
- 7. Place new overlay on bridge deck and approaches.
- Repair substructure.
- Replace diaphragms.

DATE SIGNED: 11/13/2019 EXP. DATE: 11/30 2020

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

LOADING HS20-44

Original Construction

DESIGN STRESSES

FIELD UNITS

 $f_y = 60,000 \text{ psi (reinforcement)}$ $f_{v} = 36,000 \text{ psi } (M270 \text{ Grade } 36)$

GENERAL PLAN LAKE COOK ROAD AT US 41 (EDENS EXPY.) F.A.P. RT. 379 - SEC. 2010-120-1

> COOK COUNTY STATION 49+91.45 STRUCTURE NO. 016-0811

F.A.P. RTE. 379 SECTION USER NAME = DESIGNED - SAT REVISED -**STATE OF ILLINOIS** CHECKED - JMT REVISED COOK 88 52 2010-120-1 DEPARTMENT OF TRANSPORTATION REVISED PLOT SCALE = 32:0.0000 ':" / in. DRAWN - IH CONTRACT NO. 60M68 SHEET S-1 OF S-21 SHEETS ILLINOIS FED. AID PROJECT CHECKED - SPS REVISED

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INDEX OF SHEETS

- S-1 General Plan
- S-2 General Notes, Index of Sheets and Total Bill of Material
- S-3 Stage Construction Typical Sections
- S-4 Temporary Concrete Barrier For Staged Construction
- S-5 Bridge Deck Repair I
- S-6 Bridge Deck Repair II
- S-7 Raised Median Details
- S-8 Abutment Repairs
- S-9 Pier 1 Repairs
- S-10 Pier 2 Repairs
- S-11 Pier 3 Repairs
- S-12 Structural Steel Repairs
- S-13 Expansion Joint Repairs
- S-14 Expansion Joint Details
- S-15 Preformed Joint Strip Seal Sidewalk (1 of 2)
- S-16 Preformed Joint Strip Seal Sidewalk (2 of 2)
- S-17 Bar Splicer Assembly and Mechanical Splicer Details
- S-18 Existing Structure Plans (For Information Only) I
- S-19 Existing Structure Plans (For Information Only) II
- S-20 Existing Structure Plans (For Information Only) III
- S-21 Existing Structure Plans (For Information Only) IV

GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. 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.
- 3. The Contractor shall exercise care during removal of existing joints to ensure that the slab, beams, and diaphragms' integrity will not be detrimentally impacted. The Contractor shall repair any damage(s) to the slab, beams, diaphragms caused by his operation as directed by the Engineer at no additional cost to the Department.
- 4. Cost for removal and disposal of existing expansion joints is included in the cost of Concrete Removal.
- 5. Staged construction shall be utilized to maintain traffic during construction.
- 6. All structural steel shall conform to AASHTO M-270 Gr. 36, unless otherwise noted
- 7. The existing structural steel coating may contain lead. The Contractor shall take appropriate precautions to deal with the presence of lead in this project.
- 8. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
- 9. All new structural steel shall be Hot-dip galvanized. See Special Provisions for "Hot dip Galvanizing for Srtuctural Steel". Cost included with the cost of Furnishing and Erecting Structural Steel
- 10. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs, when the deck is poured at an ambient temperature other than 50° F.
- 11. Protective coat shall be applied to the bridge sidewalks, median, overlay, and inside and top faces of parapets of new and existing concrete.
- 12. Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts $\frac{3}{4}$ " dia., holes $\frac{13}{16}$ " dia., unless otherwise noted.
- 13. Expansion joints shall be fabricated to conform to the existing cross slope of the bridge.

TOTAL BILL OF MATERIAL

ITEM DESCRIPTION	UNIT	SUB	SUPER	QUANTITY
Stone Dumped Riprap, Class A2	Ton	18		18
Filter Fabric	Sq. Yd.	14		14
Concrete Removal	Cu. Yd.		70.1	70.1
Protective Shield	Sq. Yd.		1,181	1,181
Concrete Superstructure	Cu. Yd.		74.5	74.5
Bridge Deck Grooving	Sq. Yd.		1,850	1,850
Protective Coat	Sq. Yd.		2,540	2,540
Furnishing and Erecting Structural Steel	Pound		2,450	2,450
Reinforcement Bars, Epoxy Coated	Pound		8,530	8,530
Bar Splicers	Each		48	48
Preformed Joint Strip Seal	Foot		206	206
Epoxy Crack Injection	Foot	6		6
Approach Slab Repair (Full Depth)	Sq. Yd.		77	77
Approach Slab Repair (Partial Depth)	Sq. Yd.		10	10
Structural Steel Removal	Pound		2,130	2,130
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.		1,953	1,953
Bridge Deck Scarification, ¾"	Sq. Yd.		1,953	1,953
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	497	26	523
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	21		21
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.		3	3
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.		143	143
Deck Slab Repair (Partial)	Sq. Yd.		59	59
Temporary Shoring and Cribbing	Each	5		5

* Nominal quantity to be used as needed and as approved by the Engineer.

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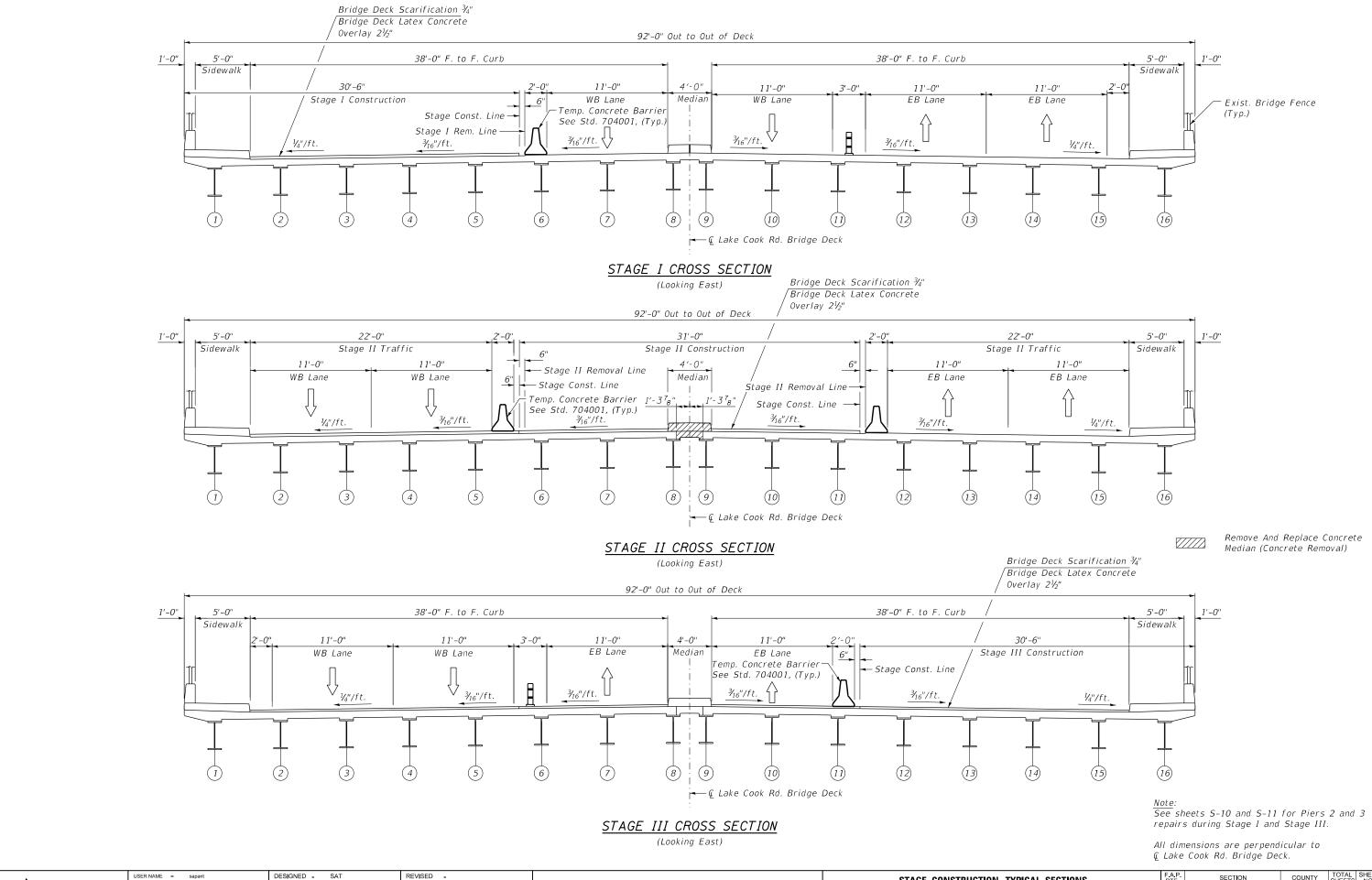
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL STRUCTURE NO. 016–0811

SHEET S-2 OF S-21 SHEETS



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** STAGE CONSTRUCTION TYPICAL SECTIONS STRUCTURE NO. 016-0811 SHEET S-3 OF S-21 SHEETS

соок 88 54 379 2010-120-I CONTRACT NO. 60M68 when "A" is greater than 3'-1".

barrier shall be restrained to the new slab according

to Detail I, II or III. No restraint is required

← Stage removal line ← Stage removal line 1'-101/5" 1'-101/5" Temporary Concrete Barrier See Standard 704001 6" min. min. Drill 3-11/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint

* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

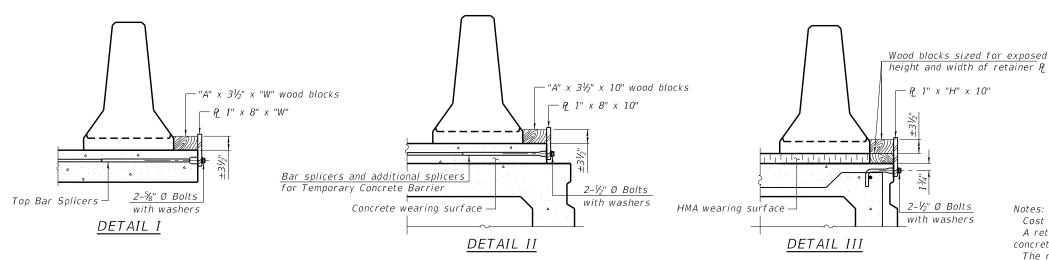
1x8 UNC US Std. 11/16" I.D. x 21/2" O.D. x approx. 8 guage thick washer RESTRAINING PIN

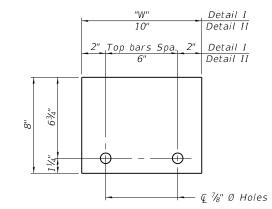
NEW SLAB OR NEW DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

is required when "A" is greater than 3'-1".

EXISTING SLAB





STEEL RETAINER P 1" x 8" x "W" (Detail I and II)

← Ç ¾" Ø Holes

STEEL RETAINER P 1" x "H" x 10" (Detail III)

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate \cline{Q} of each temporary concrete barrier.

BAR SPLICER FOR #4 BAR - DETAIL III

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

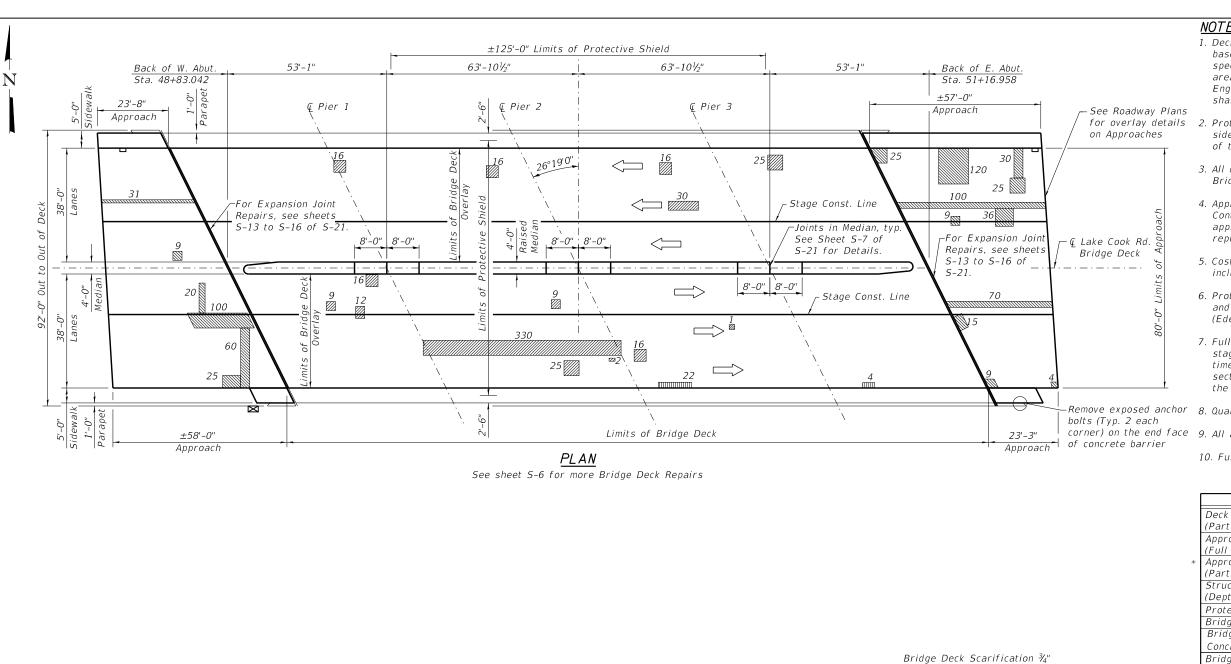
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION COUNTY TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION соок 88 55 2010-120-STRUCTURE NO. 016-0811 CONTRACT NO. 60M68 SHEET S-4 OF S-21 SHEETS

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NOTES:

- 1. Deck and approach slab repair areas are estimated based on visual inspection and will be paid for as specified in the Special Provision. Actual repair areas and locations shall be determined by the Engineer and shown on As-built plans. Engineer shall sound deck after deck scarification.
- for overlay details 2. Protective Coat shall be applied to the bridge sidewalks, median, overlay, and front and top faces of the parapets (new & existing concrete).
 - 3. All dimensions are perpendicular to Q Lake Cook Rd Bridge Deck.
 - 4. Approach reinforcement details are unknown. Contractor shall be cautious when saw cutting into approach. Any damaged reinforcement shall be replaced in-kind at no additional cost.
 - 5. Cost of anchor bolt removal and sealing shall be included in Concrete Removal.
 - 6. Protective Shield shall be placed over traffic lanes and half the shoulder widths on US 41 (Edens Expressway).
 - 7. Full depth Approach Slab repairs shall be done in stages with 4 ft. long (max.) sections removed at a time and a 4 ft. section (min.) between removed sections or as directed by the Engineer, to ensure the approach slab stability and strength.
- Remove exposed anchor 8. Quantity for Concrete Removal is on Sheet S-7 of S-21
- corner) on the end face 9. All areas shown in the Plan View are in Square Feet.
 - 10. Full Depth Deck Repairs shown on Sheet S-6 of S-21

BILL OF MATERIAL

Deck Slab Repair (Partial)		
	Sq. Yd.	59
Approach Slab Repair	Sa. Yd.	77
(Full Depth) * Approach Slab Repair		, ,
(Partial Depth)	Sq. Yd.	10
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	26
Protective Coat	Sq. Yd.	2,408
Bridge Deck Grooving	Sq. Yd.	1,850
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	1,953
Bridge Deck Scarification, ¾"	Sq. Yd.	1,953
Protective Shield	Sq. Yd.	1,181

as approved by the Engineer.

LEGEND

Deck Slab Repair (Partial)

Approach Slab Repair (Full Depth)

Structural Repair of Concrete (Depth Equal to or Less Than 5")

DECK CROSS SECTION

(8)

92'-0" Out to Out of Deck

4'-0"

Median

12'-0"

Lane

Ç Lake Cook Rd. Bridge Deck

 $\bigcup \frac{3}{16}$ "/ft.

12'-0"

Lane

<u>3</u>"/ft.

(Looking East) (All dimensions are perpendicular to <code>Q</code> Lake Cook Road Bridge Deck)

(9)

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38'-0" F. to <u>F. Curb</u>

 $\frac{3}{16}$ "/ft.

12'-0"

Lane

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BRIDGE DECK REPAIR - I STRUCTURE NO. 016-0811 SHEET S-5 OF S-21 SHEETS

5'-0"

Sidewalk

1'-0"

Bridge Deck Latex Concrete

12'-0"

¼"/ft.

Lane

Overlay 2½"

38'-0" F. to F. Curb

3/1/ft.

12'-0"

Lane

Exist.

SECTION COUNTY соок 88 56 379 2010-120-I CONTRACT NO. 60M68

1'-0"

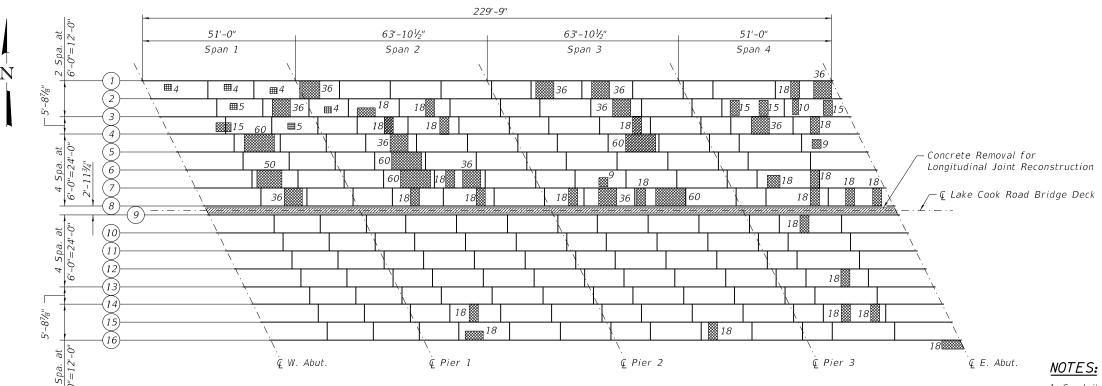
5'-0"

Sidewalk

12'-0"

Lane

 $\frac{1}{4}$ "/ft.



DECK SOFFIT PLAN

- 1. Conduits are located throughout the underside of the deck. The Contractor shall exercise extreme care with existing conduits to protect and support the conduits. Broken clips shall be replaced. Cost included in Deck Slab Repair (Full Depth, Type I). The Contractor will be required to repair any damage done to the conduit to the satisfaction of the Engineer. No splicing will be allowed to any cable damage resulting from this work, instead the Contractor will be required to repair the entire span of any damaged cable at no additional cost to the Department.
- 2. All areas shown in the plan view are in Square Feet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	143

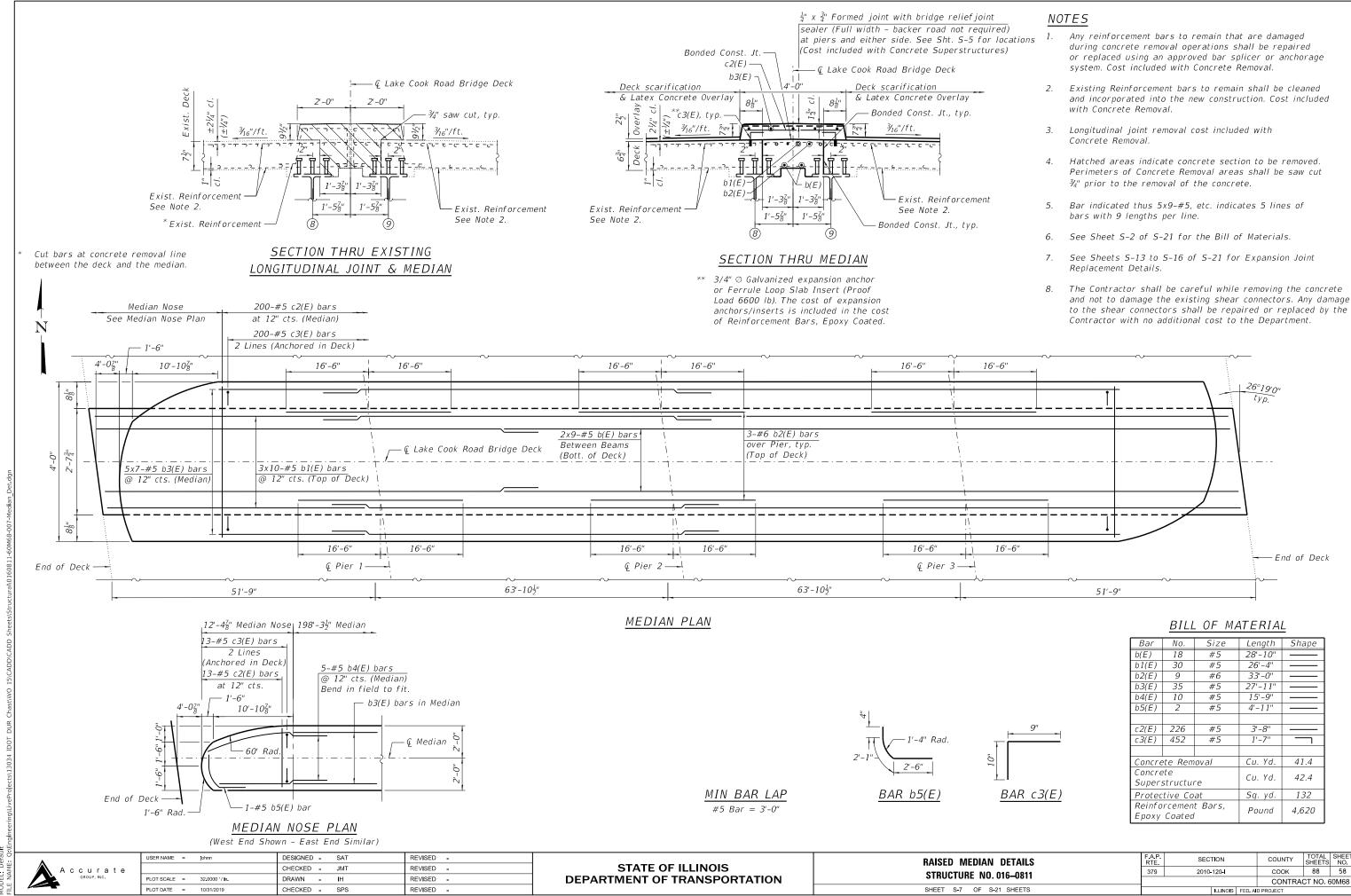
LEGEND

Deck Slab Repair
(Full Depth, Type I)
Deck Slab Repair
(Full Depth, Type II)

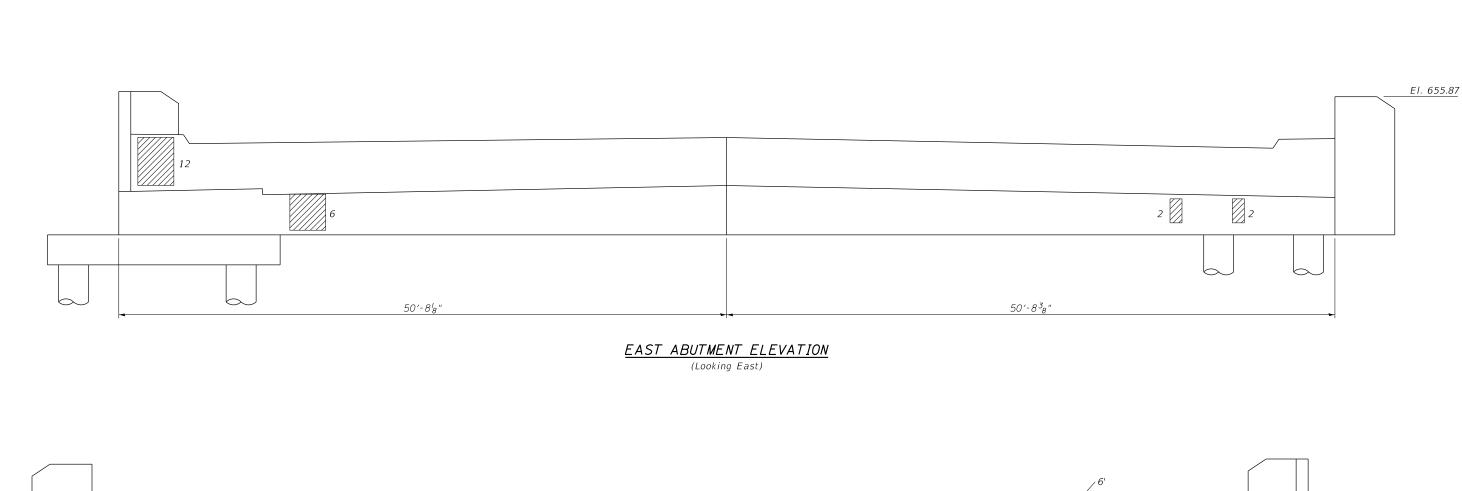
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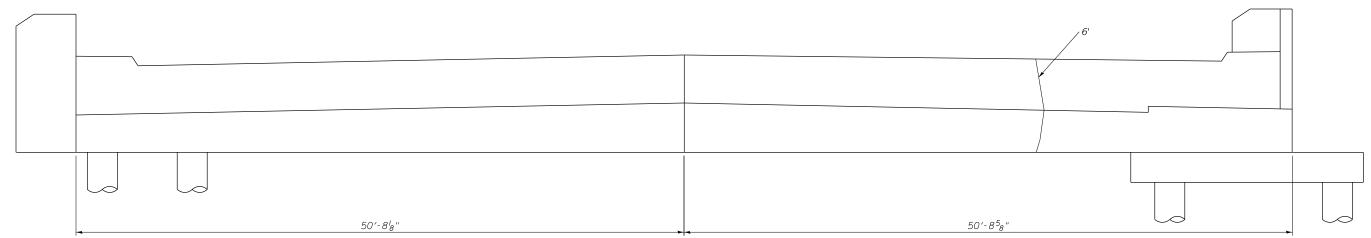
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379	2010-120-I		соок	88	57	
•				CONTRA	CT NO. 6	60M6
ILLINOIS FED. AID PROJECT						



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WEST ABUTMENT ELEVATION

(Looking West)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	22
Epoxy Crack Injection	Foot	6

<u>LEGEND</u>

Structural Repair of Concrete (Depth Equal to or Less than 5")

Epoxy Crack Injection

- All Areas shown in the Elevation Views are in Square Feet. Repair areas shown on this sheet shall be verified in the field for actual locations, size and depth.

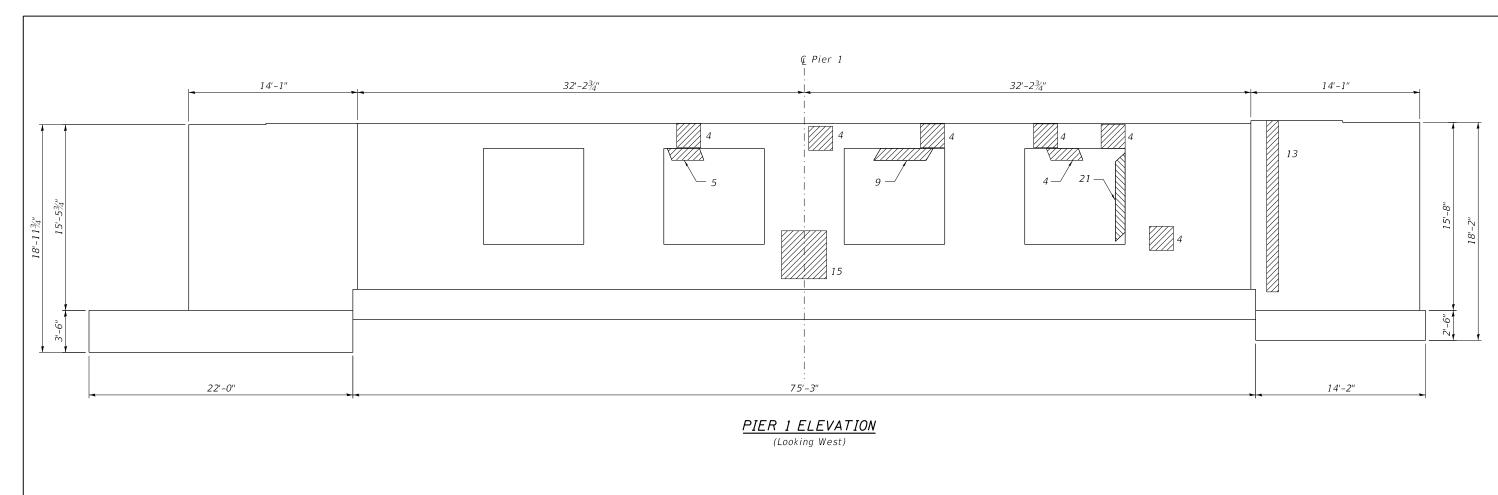


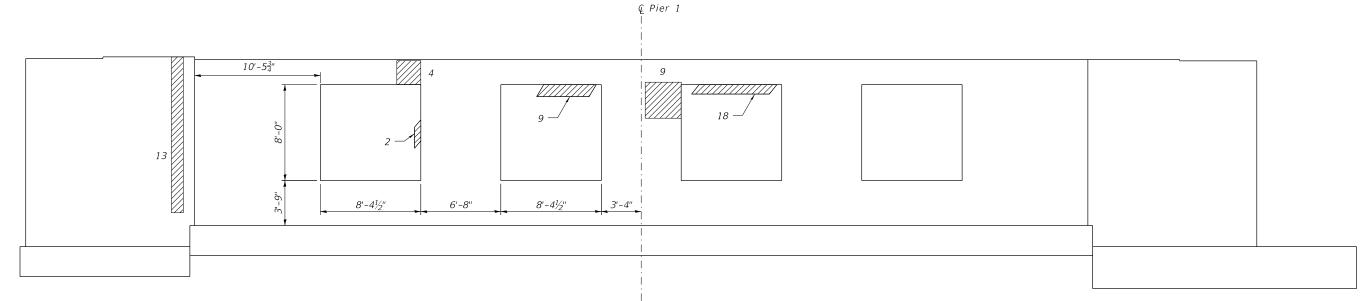
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS STRUCTURE NO. 016-0811 SHEET S-8 OF S-21 SHEETS

COUNTY TOTAL SHEET NO.
COOK 88 59 SECTION COUNTY 2010-120-**I** CONTRACT NO. 60M68





<u>BILL OF MATERIAL</u>

Structural Repair of Concrete		
(Depth Equal to or Less than 5")	Sq. Ft.	125
Structural Repair of Concrete (Depth Greater than 5")	Sq. Ft.	21

LEGEND

Structural Repair of Concrete (Depth Equal to or Less than 5")

Structural Repair of Concrete (Depth Greater than 5")

Notes:

- All Areas shown in the Elevation Views are in Square Feet. Repair areas shown on this sheet shall be verified in the field for actual locations, size and depth.



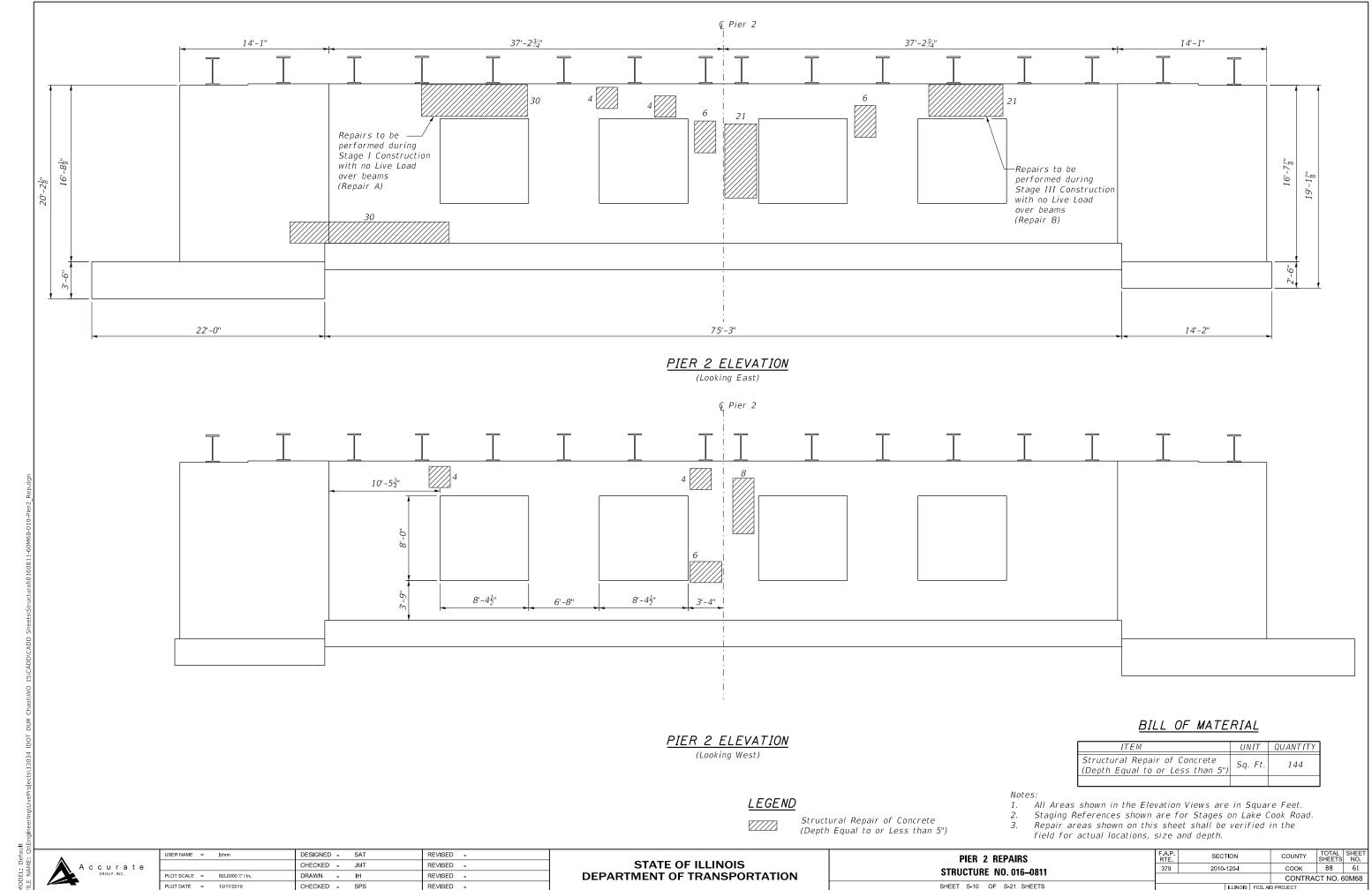
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

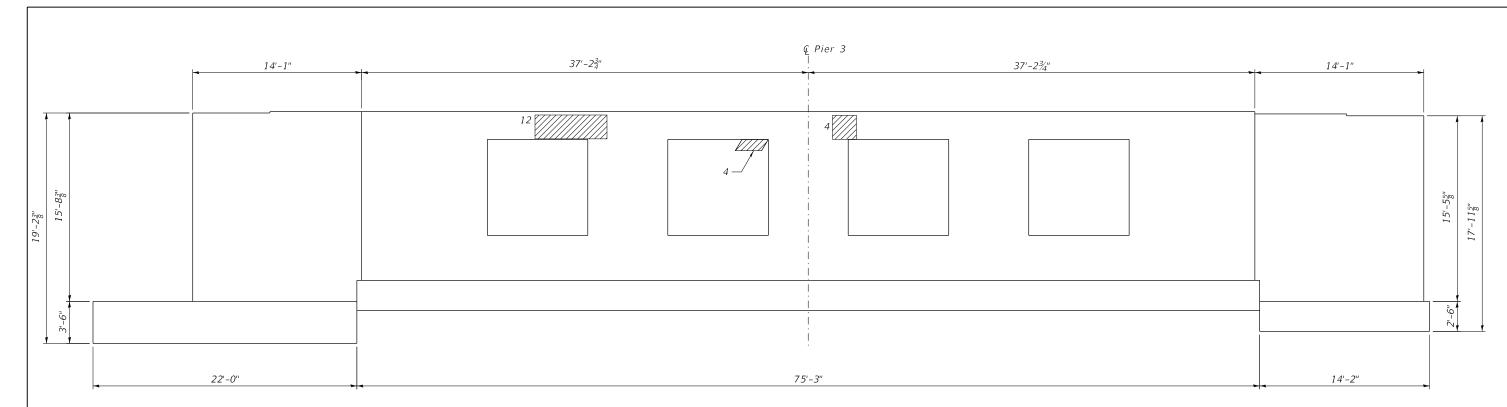
PIER 1 ELEVATION (Looking East)

PIER 1 REPAIRS STRUCTURE NO. 016–0811		SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		2010-120-I			соок	88	60
					CONTRA	CT NO. 6	60M68
SHEET S-9 OF S-21 SHEETS			ILLINOIS	FED. All	D PROJECT		

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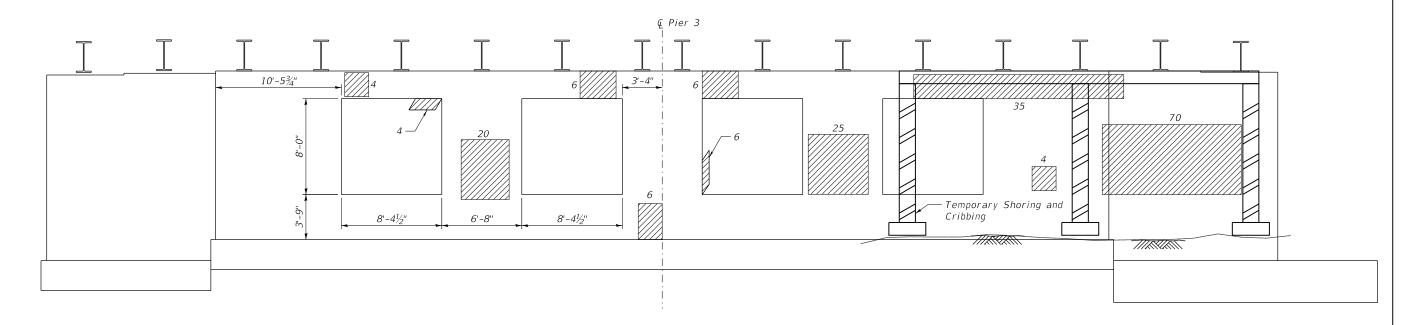


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PIER 3 ELEVATION

(Looking West)



BEAM REACTION TABLE

 Prior to removal of concrete, the existing beams over the repair area shall be temporarily supported (See Pier Reaction Table and See Special Provision for Temporary Shoring and Cribbing.

BEAM REACTION TABLE

Pier 3	Load (kips)
DL	64.9
LL	38.9
IM	10.3
Total	114.1

Reactions shown in table are per girder.

PIER 3 ELEVATION

(Looking East)

<u>LEGEND</u>

Structural Repair of Concrete (Depth Equal to or Less than 5")

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	206
Temporary Shoring and Cribbing	Each	5

Notes:

- 1. All Areas shown in the Elevation Views are in Square Feet.
- Repair areas shown on this sheet shall be verified in the field for actual locations, size and depth.

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

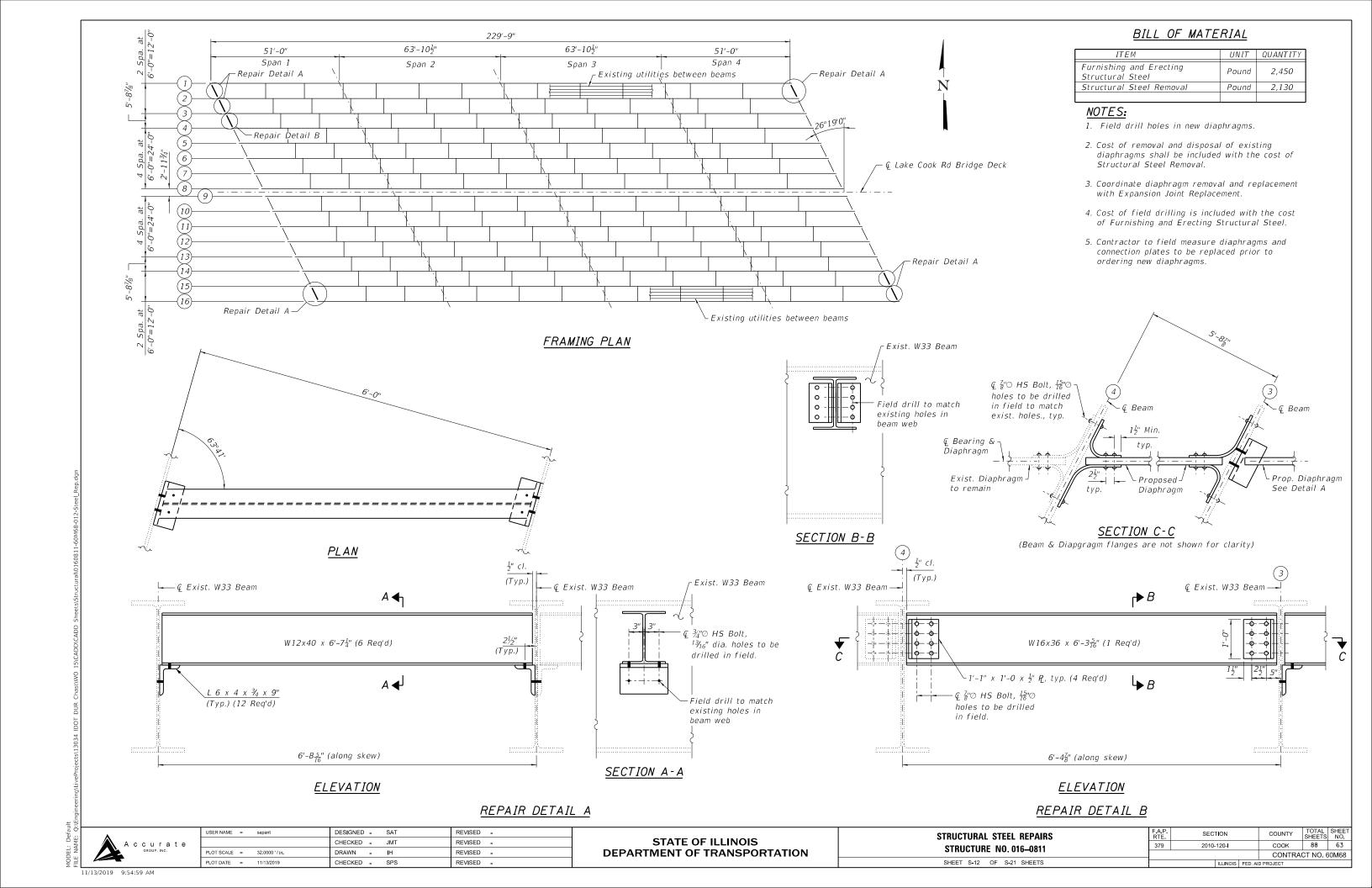
PIER 3 REPAIRS
STRUCTURE NO. 016-0811
SHEET S-11 OF S-21 SHEETS

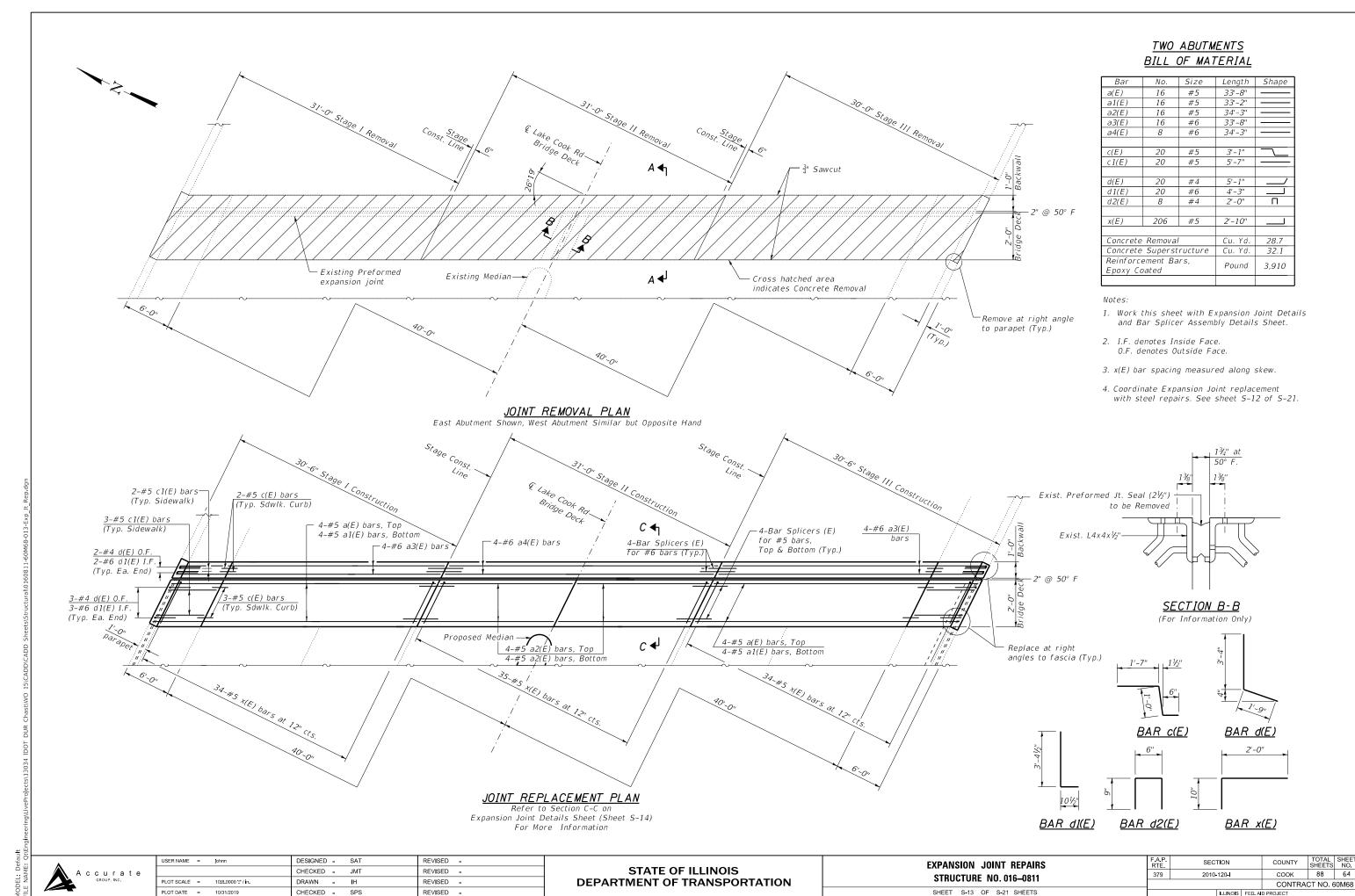
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 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS NO.

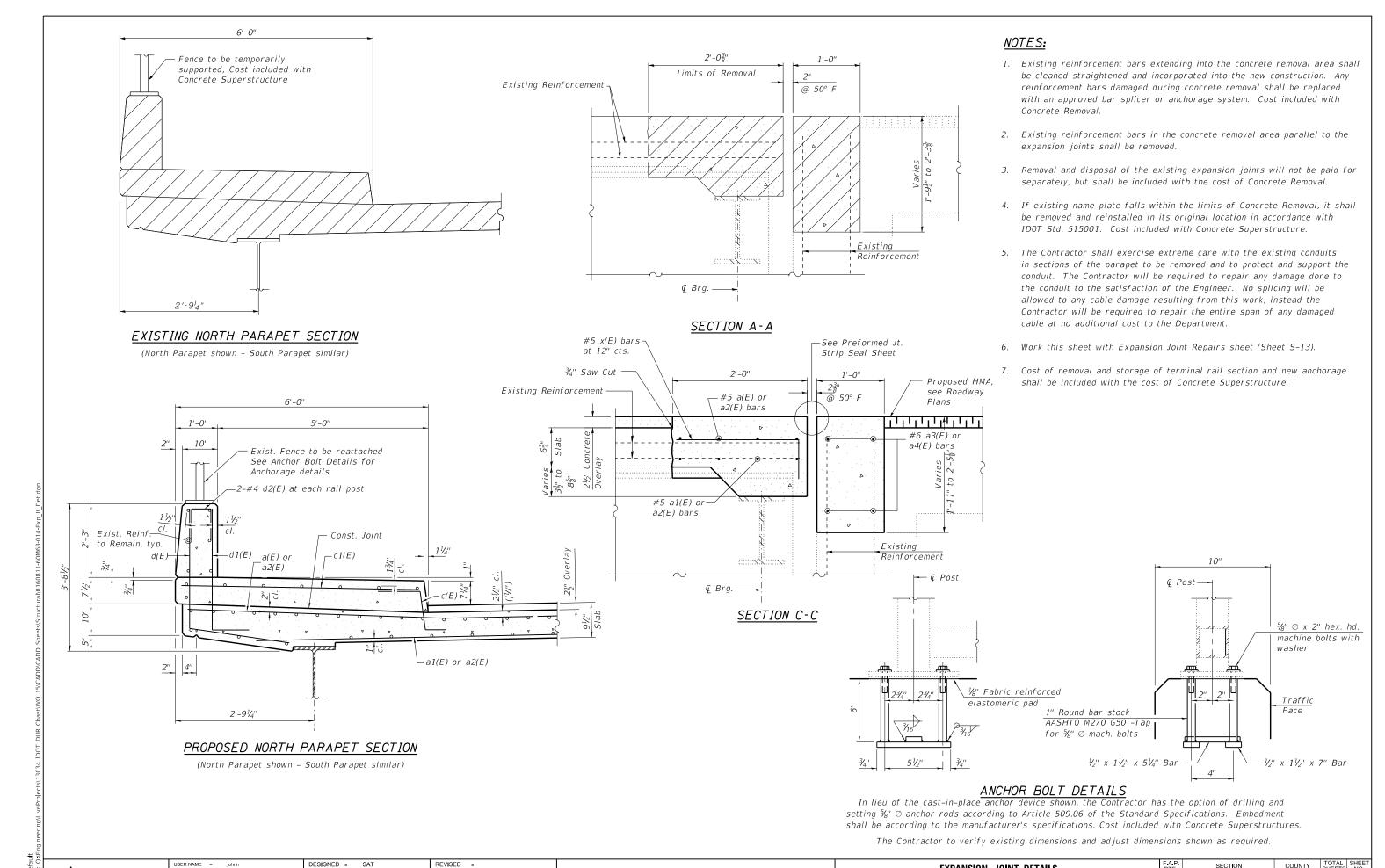
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 CONTRACT NO. 60M68

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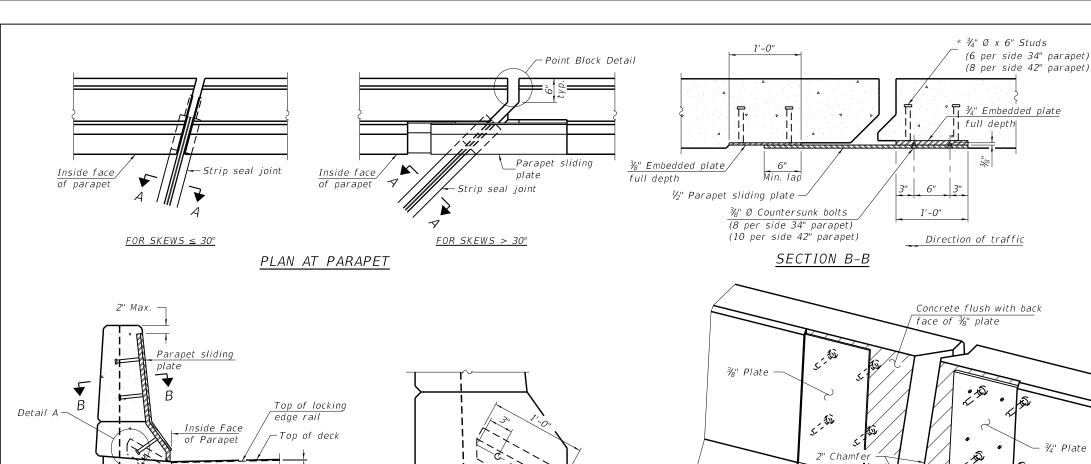
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REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS
STRUCTURE NO. 016–0811

SHEET S-14 OF S-21 SHEETS



ELEVATION AT PARAPET

5/8" Ø x 6" Studs

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

DETAIL A

Concrete flush with back face of ¾" plate . // JQ Ø. € Concrete flush with back face of ¾" plate

TRIMETRIC VIEW (Showing embedded plates only)

Locking edge railat 50° F Top of concrete -Strip seal at 50° F

8-11-17

SHOWING ROLLED RAIL JOINT

Locking edge railat 50° F Top of concrete -Strip seal * $\frac{1}{8}$ " Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs) $\frac{3}{6}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at $\pm 4'-0$ " cts.

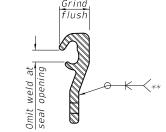
for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SHOWING WELDED RAIL JOINT

<u>ROLLED</u> WELDED RAIL (EXTRUDED) RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration

of the locking edge rails and matching strip seal may vary from

manufacturer to manufacturer provided they fit the application

however, will not be allowed. Locking edge rails may exceed the

4½" maximum depth provided the anchorage system is revised

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any

rail joint within 10' measured perpendicular to the face of the

curb or parapet shall be welded as shown in the locking edge

The top surface of sidewalk sliding plates shall have a

Cost of parapet sliding plates, sidewalk sliding plates,

embedded plates, anchorage studs, and expansion anchors

34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based

parapet lengths shown elsewhere in the plans are dimensioned

to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the

on the locking edge rail chosen by the Contractor. Deck and

The manufacturer's recommended installation methods

according to the manufacturer's recommendation.

raised pattern according to ASTM A786.

included with Preformed Joint Strip Seal.

length of the bridge approach slab.

and meet the minimum anchorage shown. Flanged edge rails,

rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum

rated movement of 4 inches.

shall be followed.

rail splice detail.

LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	206

SECTION A-A

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

(Sheet 1 of 2)

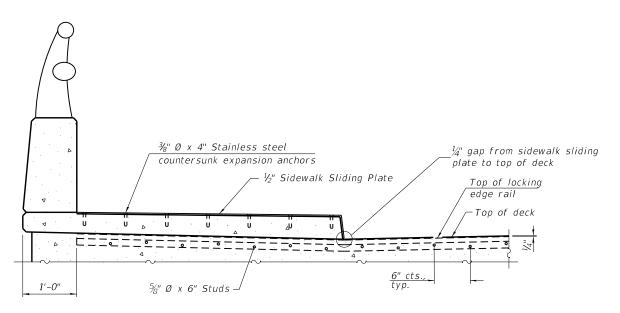
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PREFORMED JOINT STRIP SEAL - SIDEWALK STRUCTURE NO. 016-0811 SHEET S-15 OF S-21 SHEETS

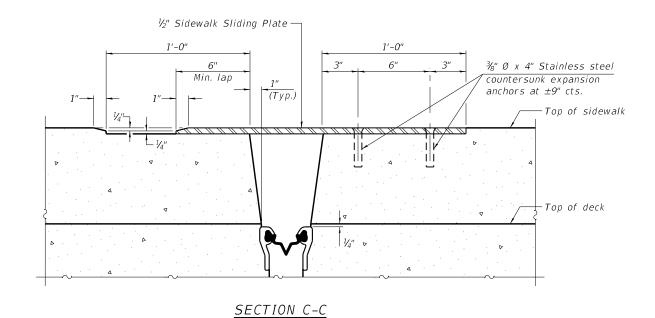
SECTION COUNTY 379 2010-120-I соок 88 66 CONTRACT NO. 60M68

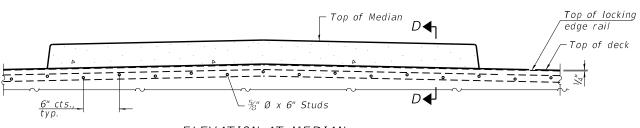
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EJ-SS-S



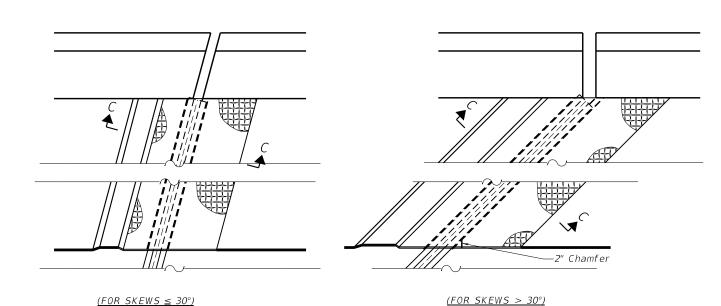
ELEVATION AT RAISED SIDEWALK



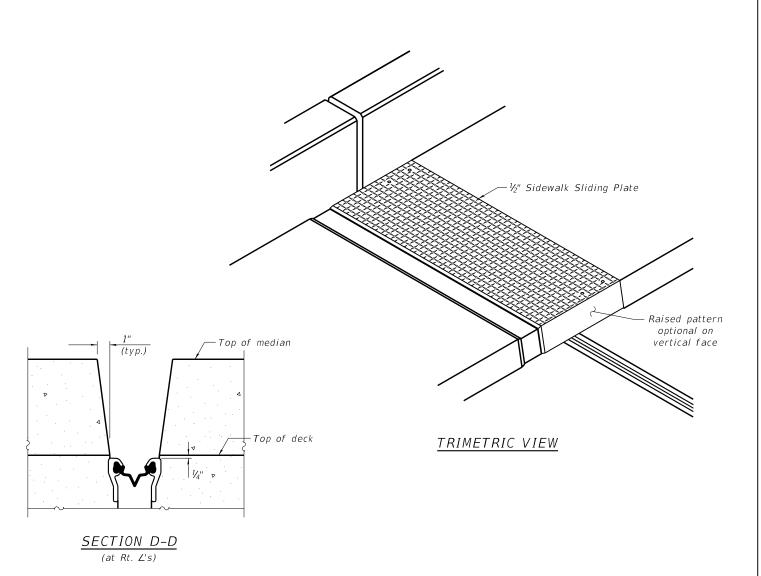


ELEVATION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



PLAN AT RAISED SIDEWALK



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

(Sheet 2 of 2) SECTION PREFORMED JOINT STRIP SEAL - SIDEWALK 2010-120-I STRUCTURE NO. 016-0811

COUNTY TOTAL SHEET NO.

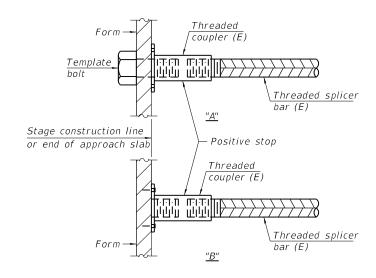
COOK 88 67 CONTRACT NO. 60M68 SHEET S-16 OF S-21 SHEETS

STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

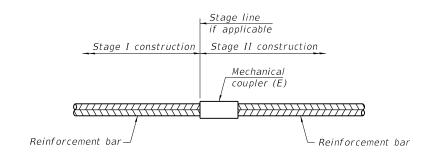
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	32	3'-6"
Abut Hatch	#6	16	4'-0''



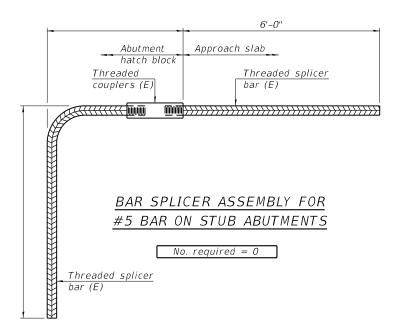
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

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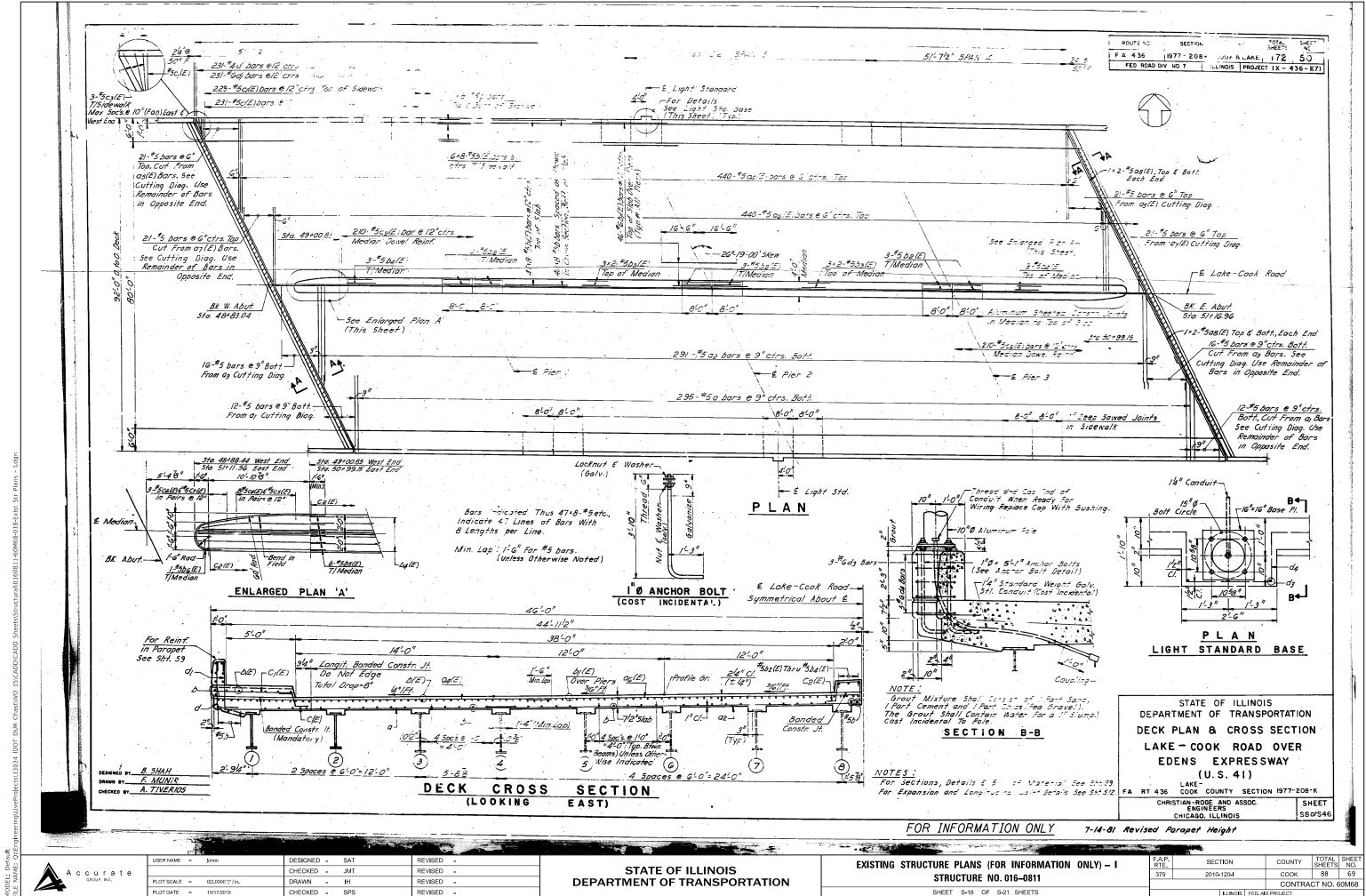


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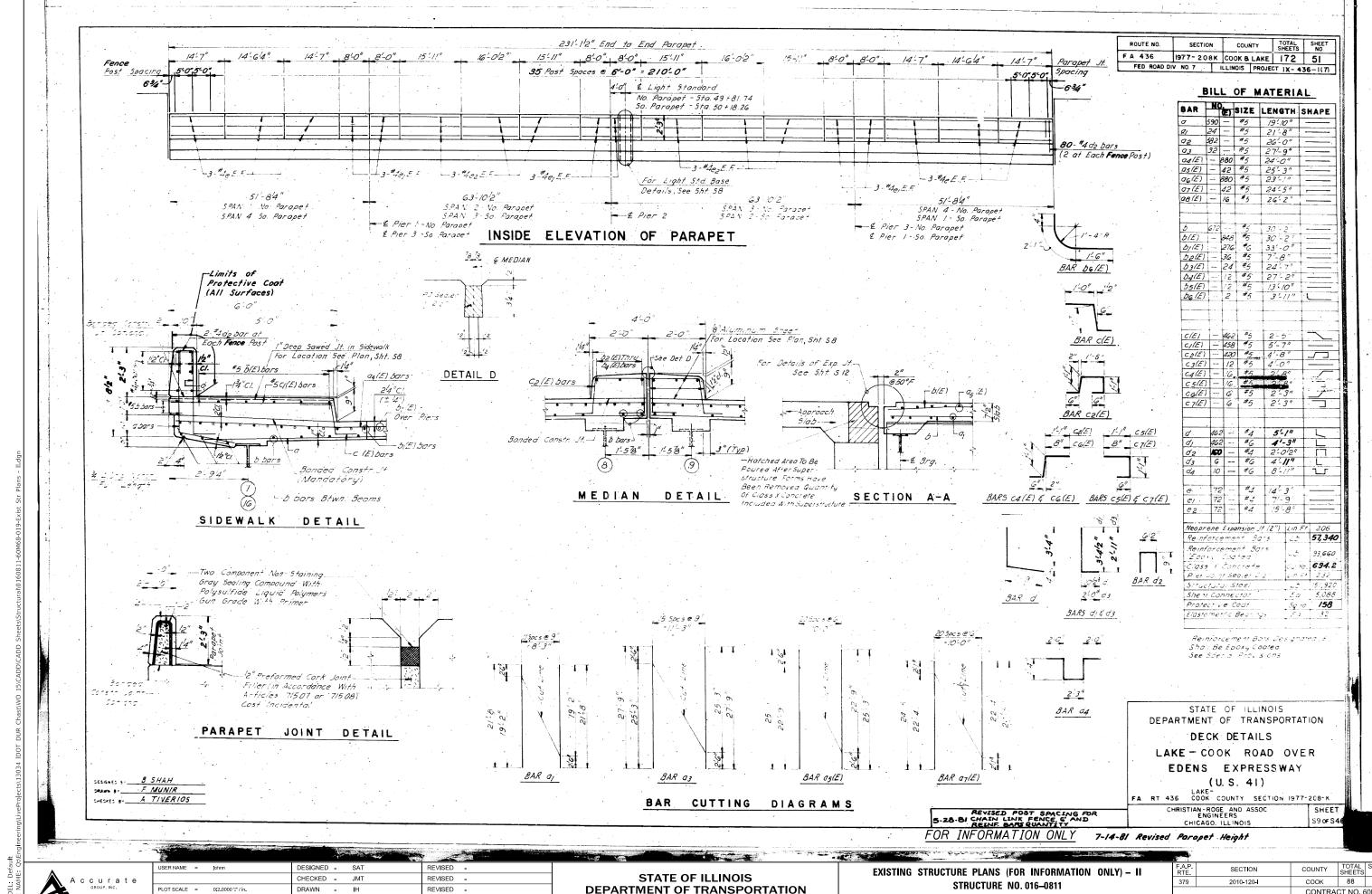
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016–0811

SHEET S-17 OF S-21 SHEETS



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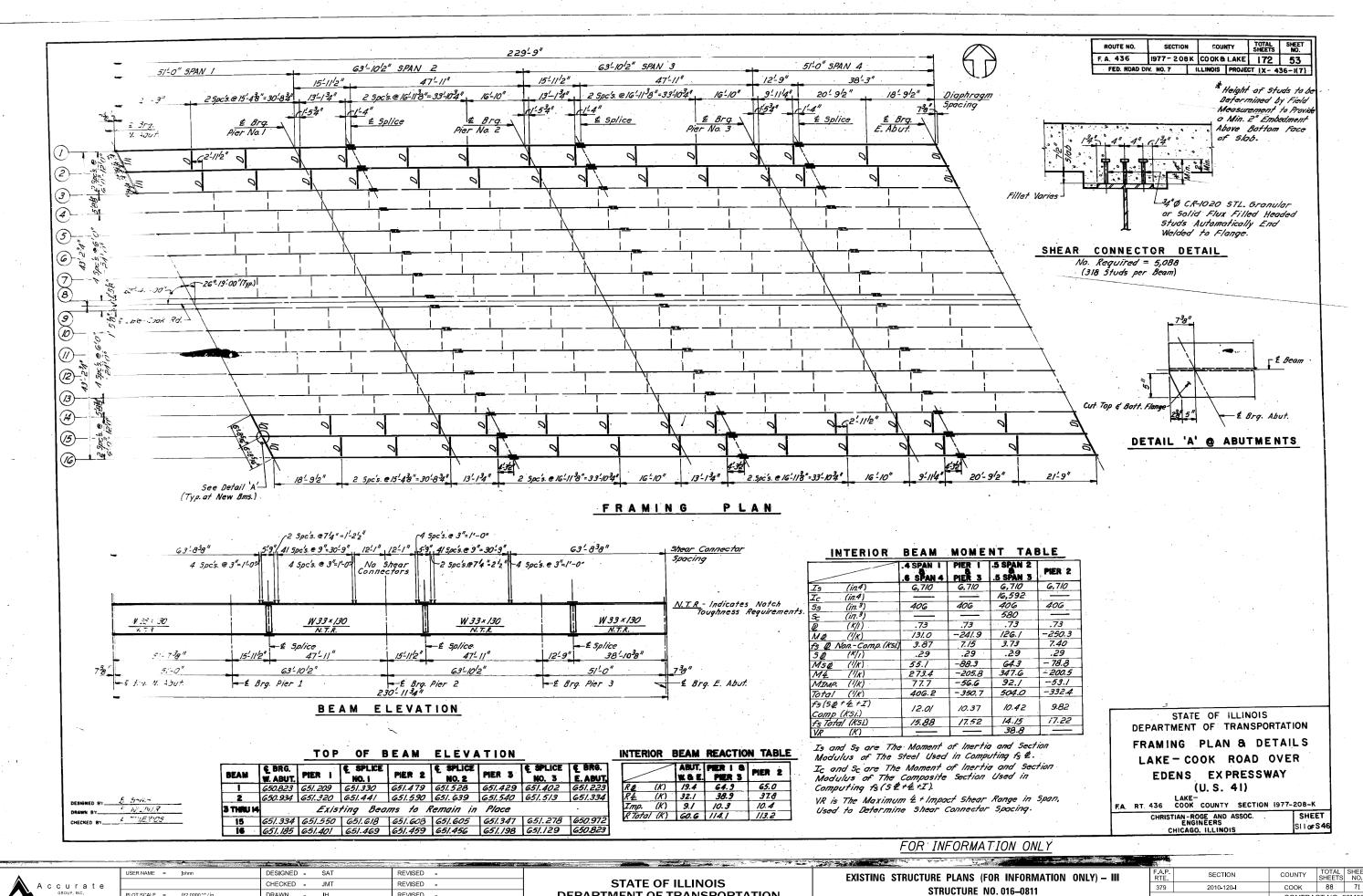
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DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 016-0811 SHEET S-18 OF S-21 SHEETS

88 70 CONTRACT NO. 60M68



DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 60M68

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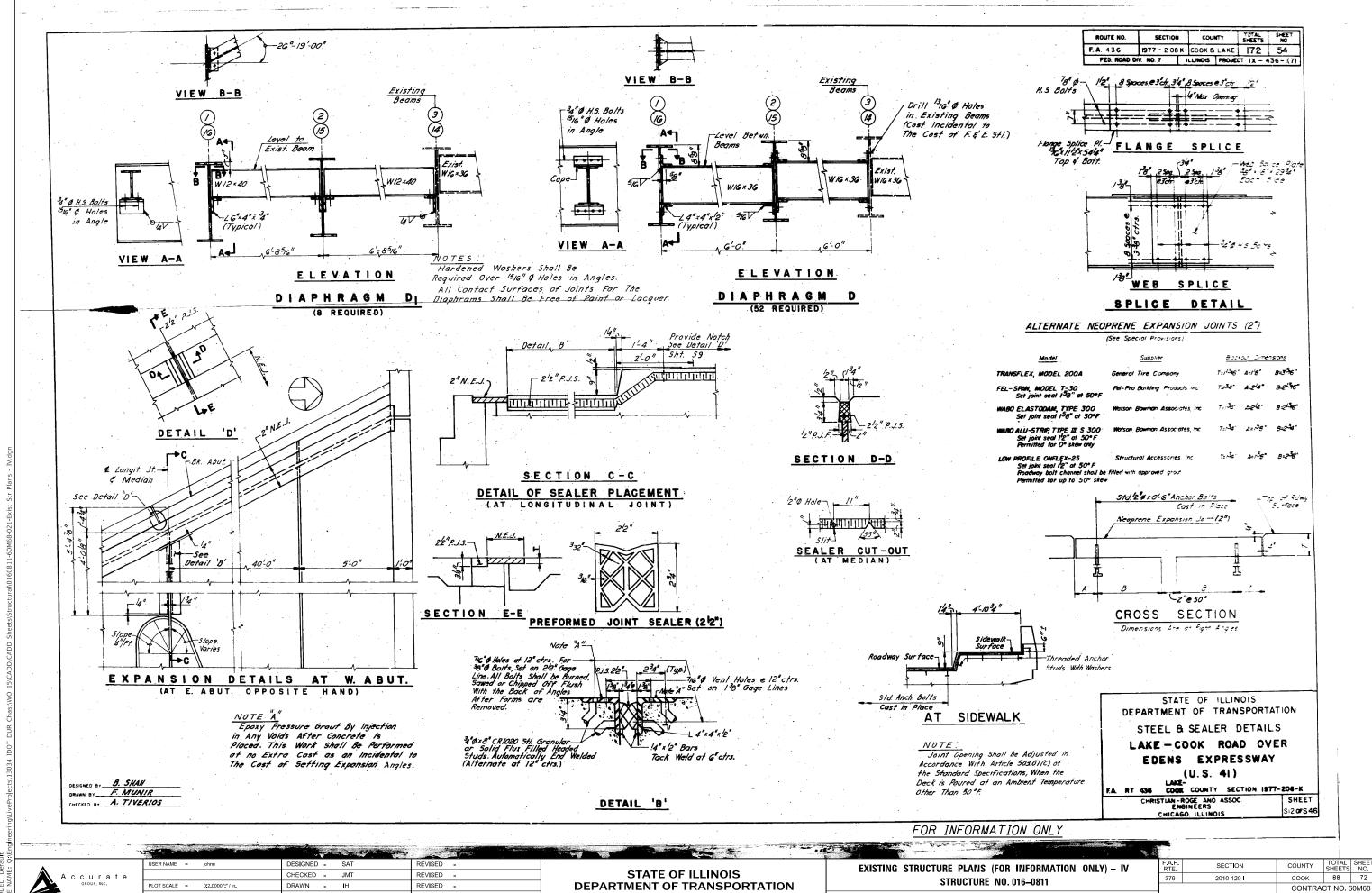
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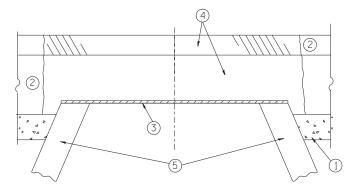


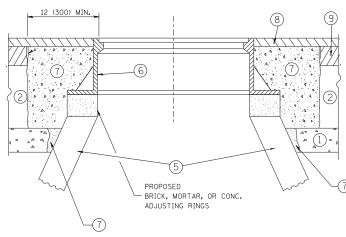
SHEET S-18 OF S-21 SHEETS

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NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

SCALE: NONE

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM
- AROUND THE STRUCTURE.

 B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK. THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

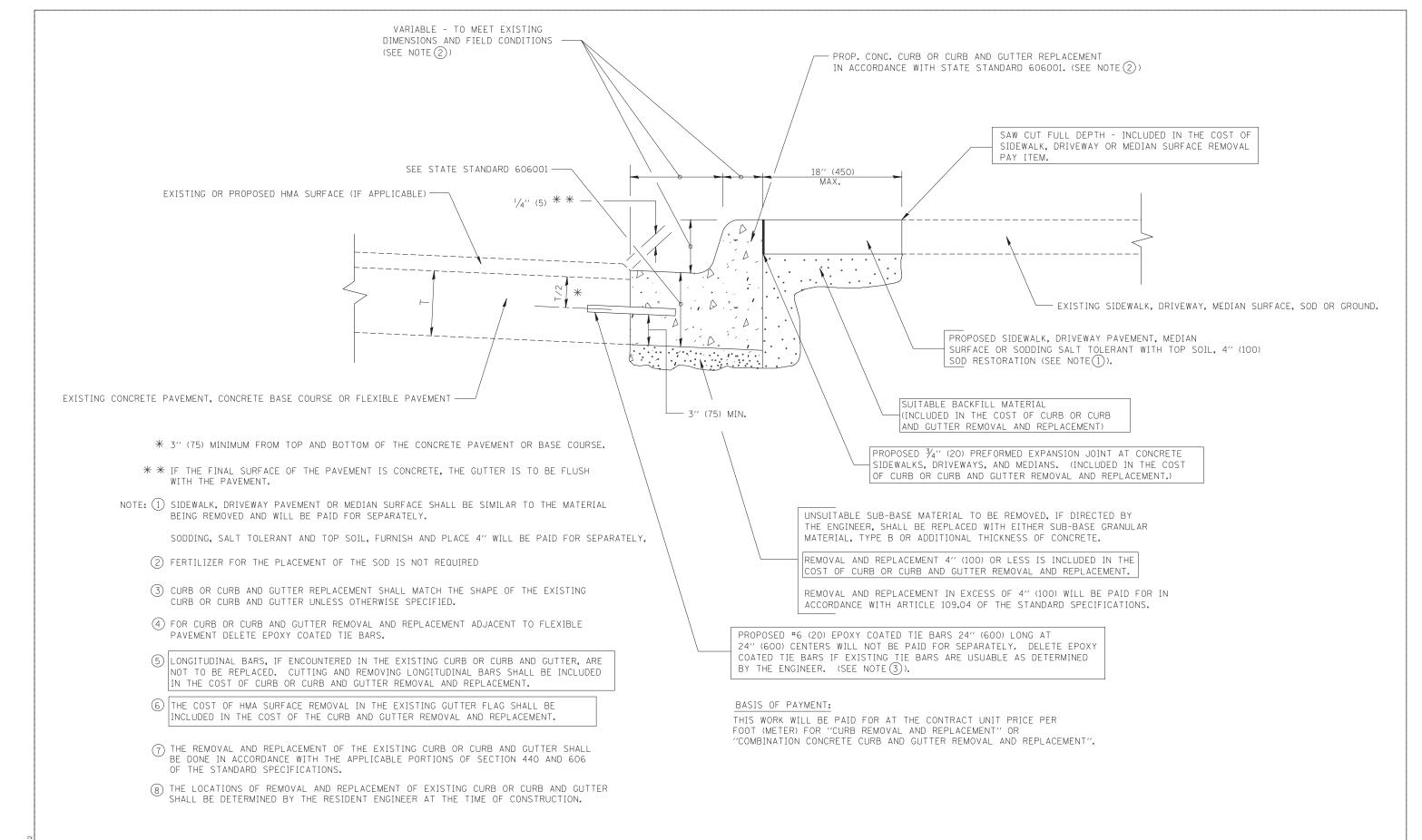
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING SHEET NO. 1 OF 1 SHEETS STA.

COUNTY 379 2010-120-1 COOK 88 73 CONTRACT NO. 60M68 BD600-03 (BD-8)



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

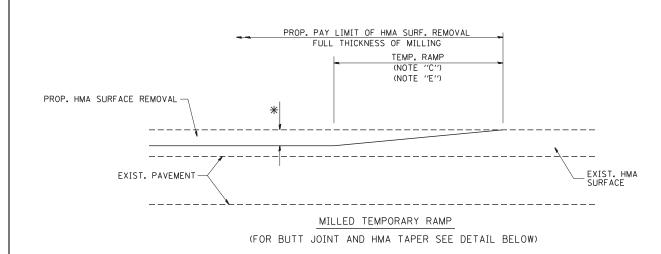
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COUNTY

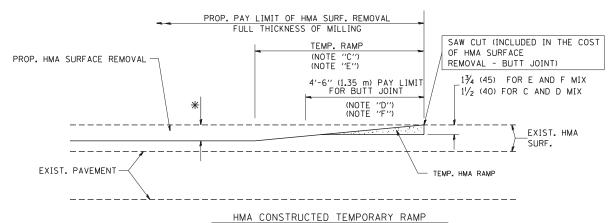
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CONTRACT NO. 60M68

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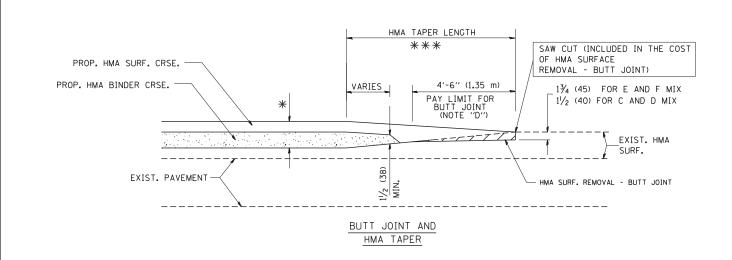
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

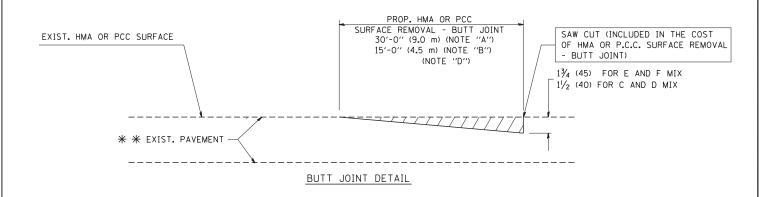
TYPICAL TEMPORARY RAMP

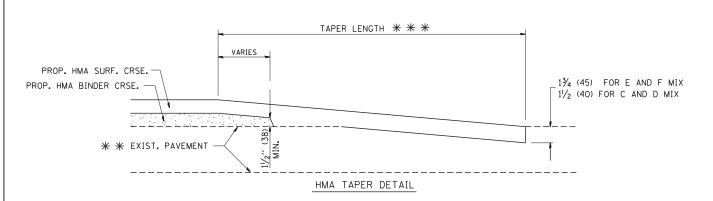


TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

| RTE | SECTION | COUNTY | TOTAL | SHEE | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEET | SHEE





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SOUARE YARD (SOUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

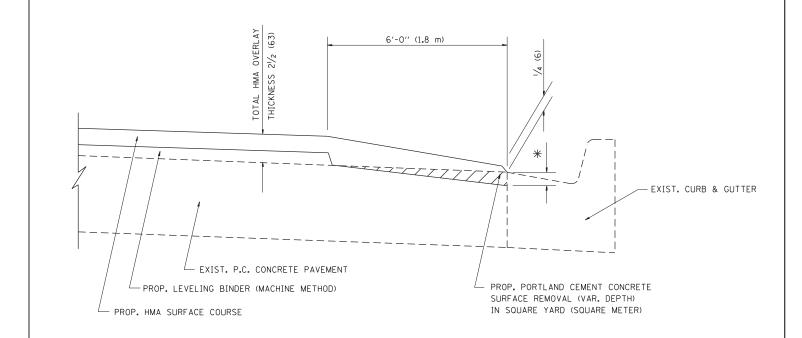
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NO. 3

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HMA TAPER AT EDGE OF P.C.C PAVEMENT

HMA SURF ACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	★ MILLING AT GUTTER FLAG
C OR D	11/2 (38)	1 (25)	11/4 (33)
E	1¾ (44)	3/4 (19)	11/2 (38)

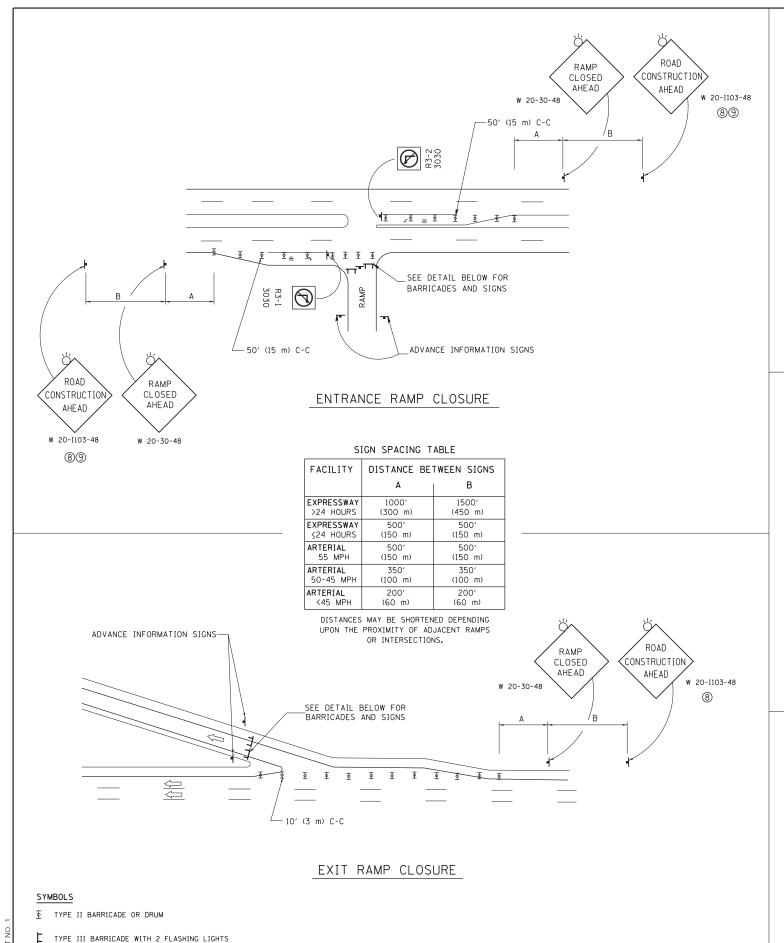
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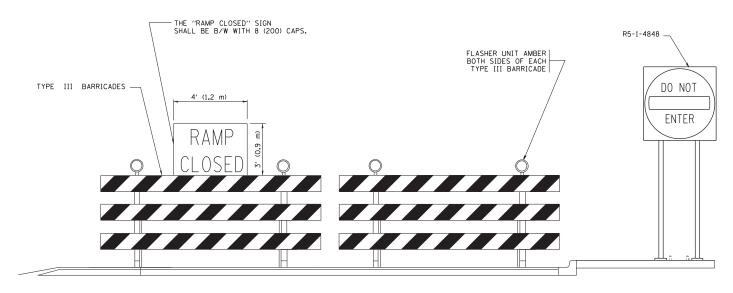
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pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	5 101826W8M \CADD⊕ta\	.CA II S heets\bd33.dgn	REVISED	- E	. GOMEZ 12-21-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	A. ABBAS	REVISED	- F	R. BORO 01-01-07
Default	PLOT DATE = 7/7/2016	DATE -	09-10-94	REVISED	- J	P CHANG 07-08-16

STATI	E 01	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

HMA TAPER AT									
			EDGE	0F	P.C.C.	PAVEMENT			
SCALE: NONE	SHEET	1	OF	1	SHEETS	STA.	TO STA.		

		_ , , ,		ID PROJECT		,,,,,
В	D400-06	(BD33)	CONTRACT	NO. 60)M6
346	2010-120-l			COOK	88	76
F.A.P. RTE.	SE	CTION	COUNTY	TOTAL SHEETS	SHE	





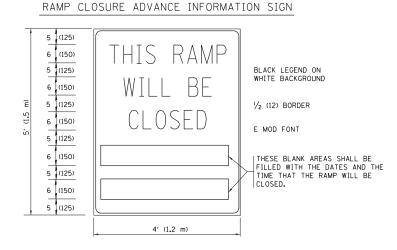
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSED 72 8 9

RAMP CLOSURE ADVANCE WARNING SIGN

BLACK LEGEND ON ORANGE
BACKGROUND MOUNTED
DIAGONALLY
E MOD FONT
1 (25) BORDER
SIGNS ARE REQUIRED ON ALL THE E

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

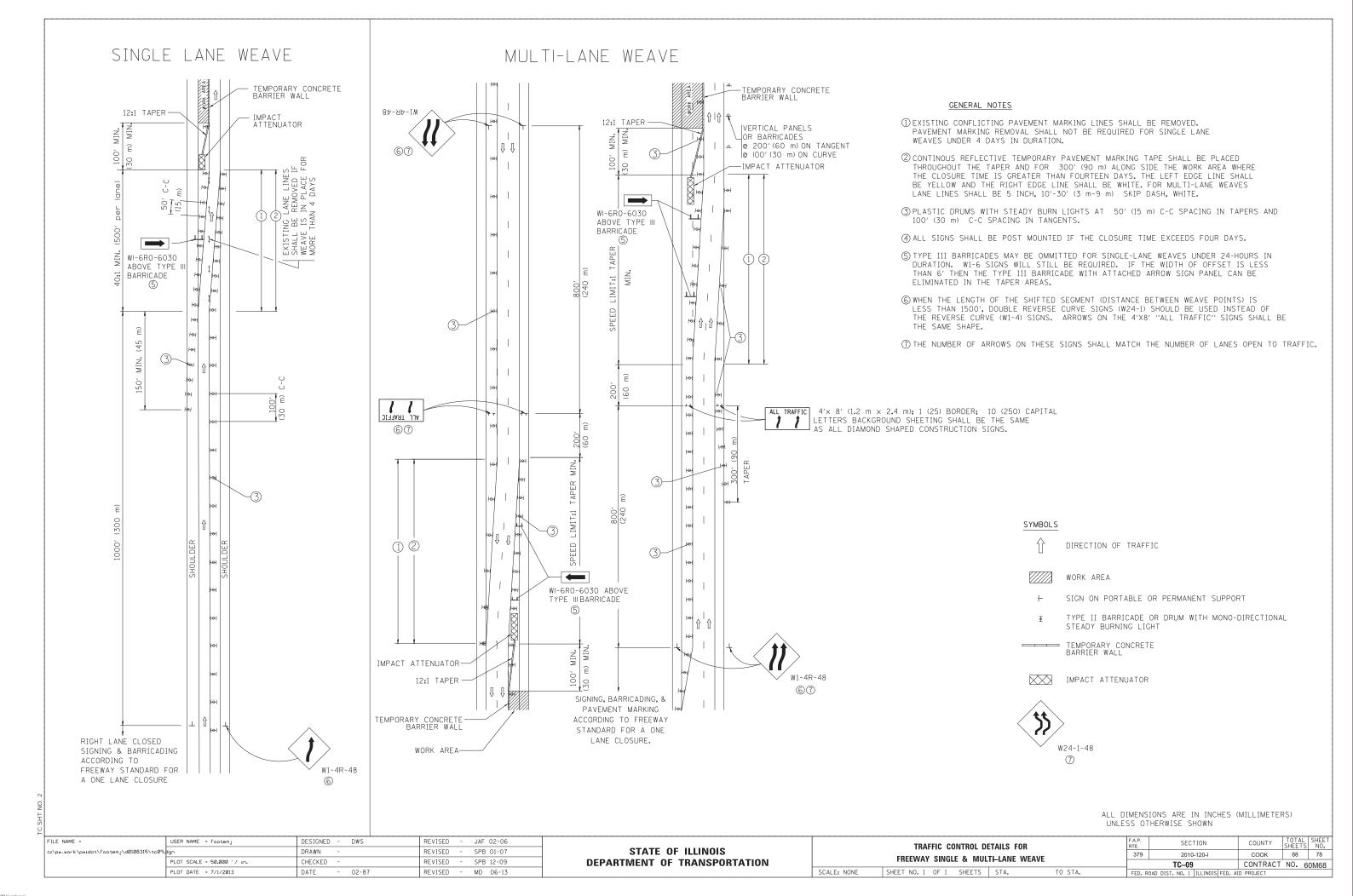
- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II
 BARRICADES DURING DAY OPERATIONS. CONES SHALL BE
 A MINIMUM OF 28 (700) HIGH.
- (2) VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- (3) A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEEDED BY A W20-7 FLAGGER WARNING SIGN.
- 4 ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- (5) THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).

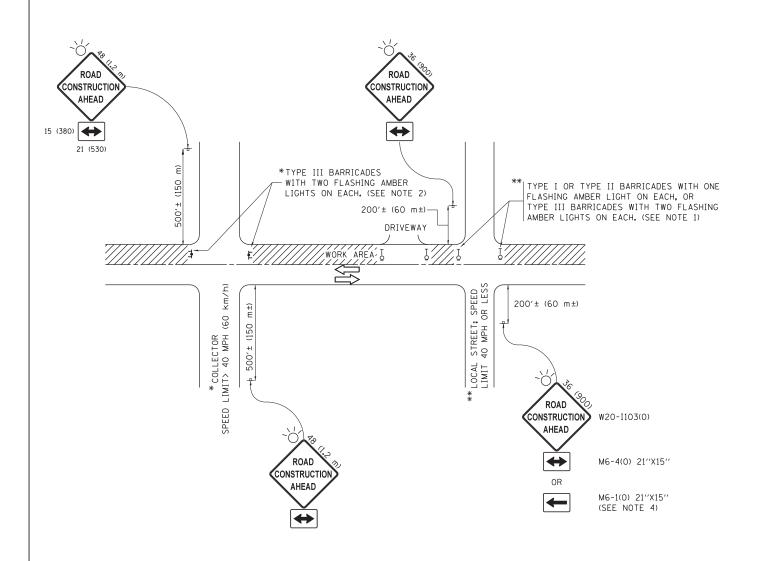
- (6) AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- (8) ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED
 ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED -	S.P.B. 01-07			FN	ITRANCE	AND EXIT RA	MP	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
pw:\\ILØ84EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	ouments\IDOT Offices\District 1\Projects\Dist	tSt DRAWM \CADData\CADsheets\tc08.dgn	REVISED -	S.P.B. 12-09	STATE OF ILLINOIS	CLOSURE DETAILS			379	2010-120-I	COOK	88	77		
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED -	M.D. 06-13	DEPARTMENT OF TRANSPORTATION					TC-08	CONTRACT	T NO. 6	M68		
Default	PLOT DATE = 11/27/2017	DATE - 02-83	REVISED -	M.D. 01-18		SCALE: NONE	SHEET 1	OF 1	SHEETS STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		

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NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710)
 IN HEICHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

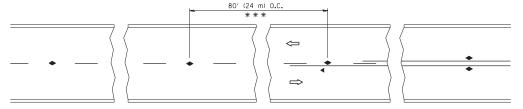
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.:1ll:no1s.gov:PWIDOT\Doi	cuments\IDOT Offices\District 1\Projects\Dist	CADData\CADbate\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

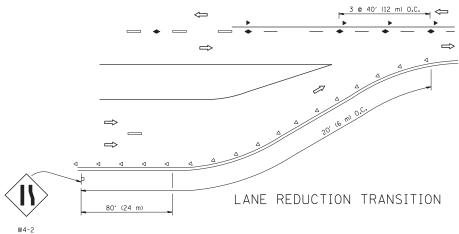
STATE OF	ILLINOIS
DEPARTMENT OF 1	TRANSPORTATION

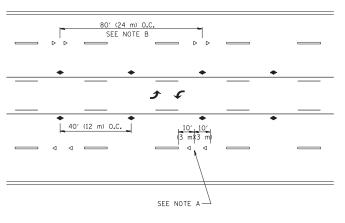
	TRAFFIC C	ONTROL	TION FOR	F.A.P. RTE.	SECTION		
СI	DE ROADS.	379 2010-120-1					
31	DE HUADS,		TC-10				
	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILL INOI:



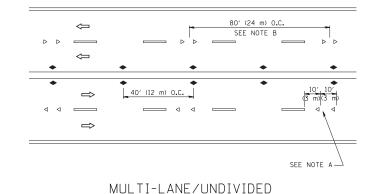
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

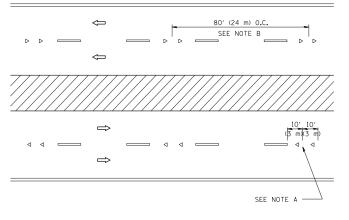
TWO-LANE/TWO-WAY





TWO-WAY LEFT TURN





MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

── WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

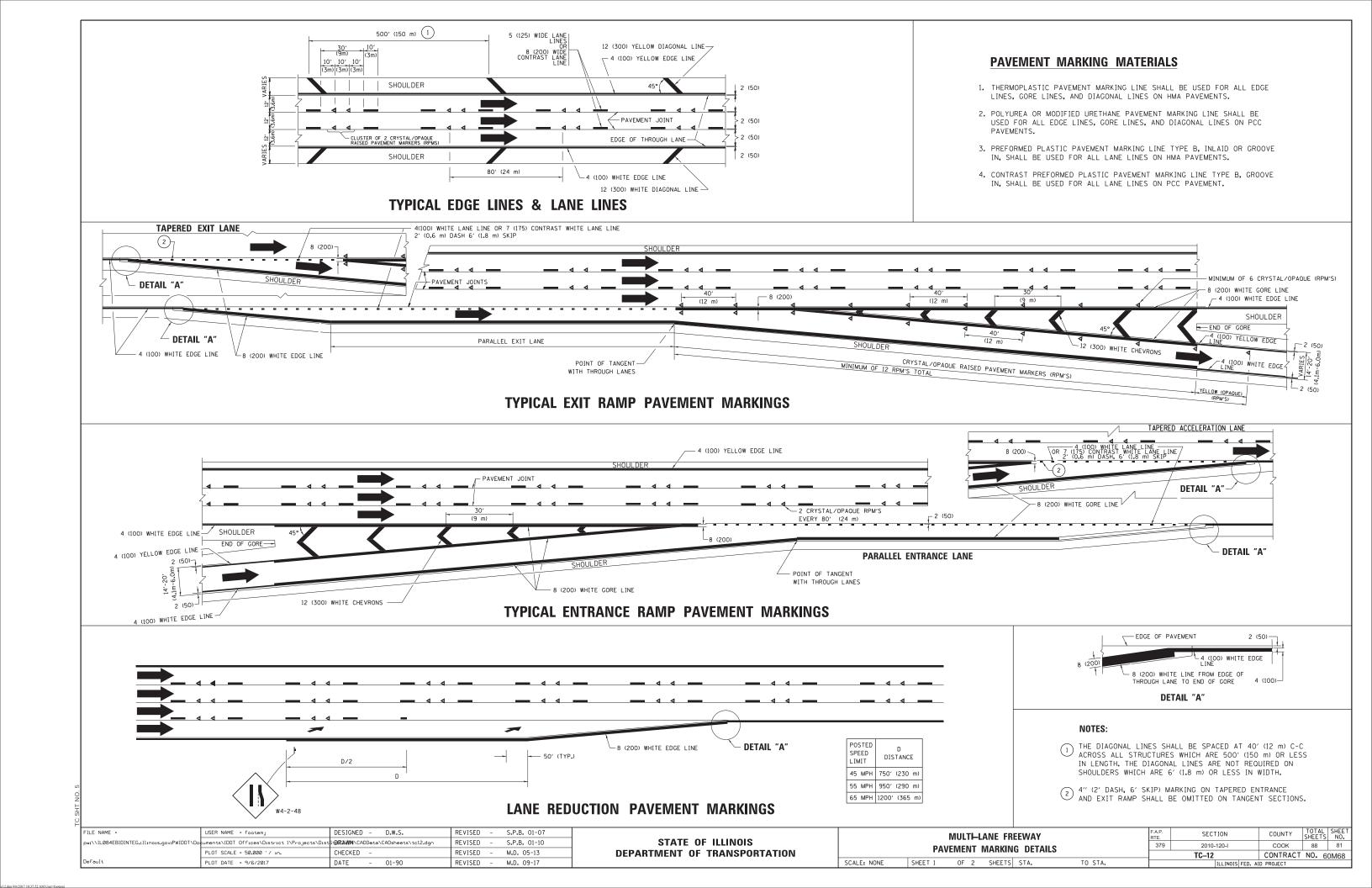
LEFT TURN

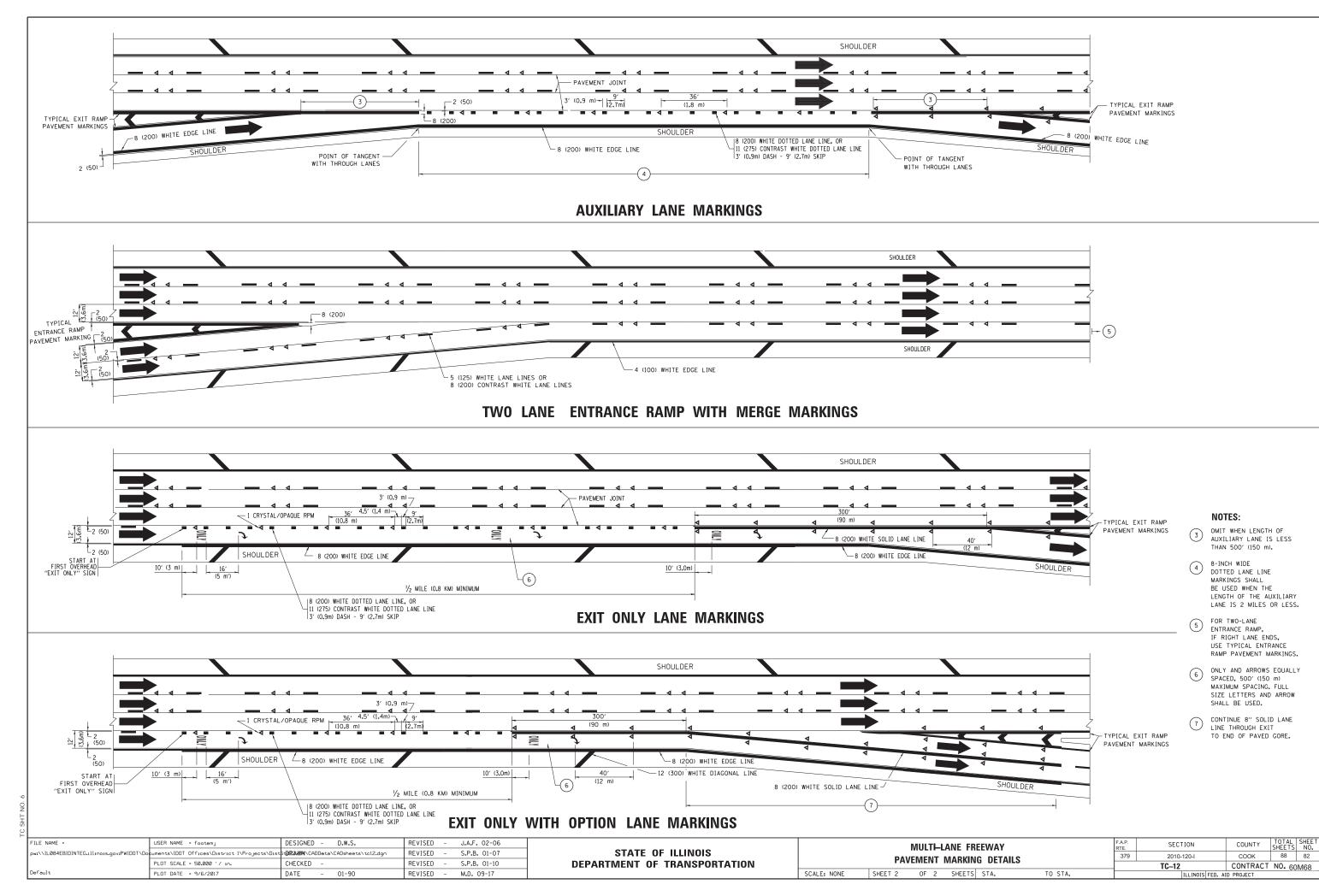
All dimensions are in inches (millimeters) unless otherwise shown.

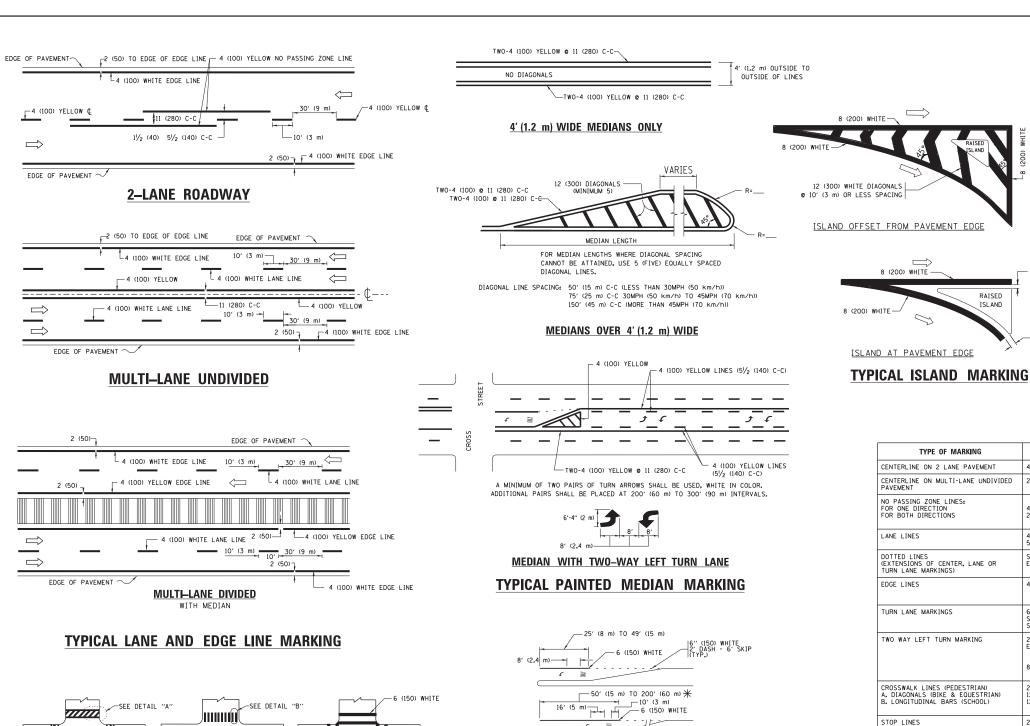
FILE NAME =	USER NAME = leysa	DESIGNED -	REVISED	-T. RAMMACHER	09-19-94
c:\pw_work\pwidot\leysa\d0108315\tc11.dgn		DRAWN -	REVISED	-T. RAMMACHER	03-12-99
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER	01-06-00
	PLOT DATE = 3/2/2011	DATE -	REVISED	- C. JUCIUS	09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	TYPICA	L APPLICATIONS		F.A.P. RTE.
RAISED	REFLECTIVE PAVEMENT	MARKERS (SNOW-PLOY	W RESISTANT)	379
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS STA.	TO STA.	FED. R







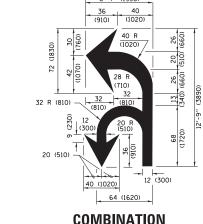
___ 6 (150) WHITE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m²) ONLY AREA = 20.8 SO. FT. (1.9 m²)

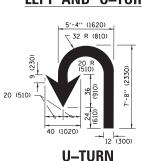
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



COMBINATION LEFT AND U-TURN



750 55

D(FT)

425

500

580

665

SPEED LIMIT

50

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 © 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5/5 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54,0 SO. FT. (5,0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8°)	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

8 (200) WHITE -

RAISED

ISLAND

2 (50)

DESIGNED -EVERS FILE NAME = USER NAME = leysa REVISED -C. JUCIUS 09-09-09 W:\diststd\22x34\tc13.dar DRAWN REVISED C. JUCIUS 07-01-13 CHECKED REVISED C. JUCIUS 12-21-15 PLOT DATE = 6/23/2017 DATE 03-19-90 REVISED C. JUCIUS 04-12-16

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SECTION COUNTY DISTRICT ONE 2010-120-1 COOK 88 83 TYPICAL PAVEMENT MARKINGS CONTRACT NO. 60M68 TC-13 SCALE: NONE TO STA. SHEET 1 OF 1 SHEETS STA.

BICYCLE & EQUESTRIAN

2' (600) 12 (300) WHITE

PEDESTRIAN

DETAIL "A"

DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

6 (150) WHITE

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

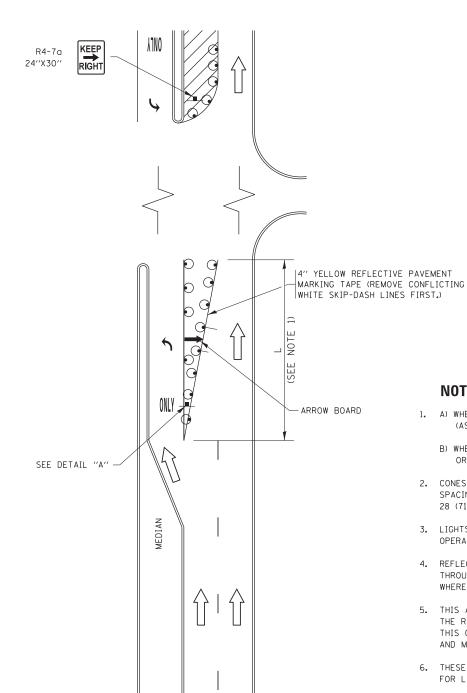


FIGURE 1

LEGEND WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT

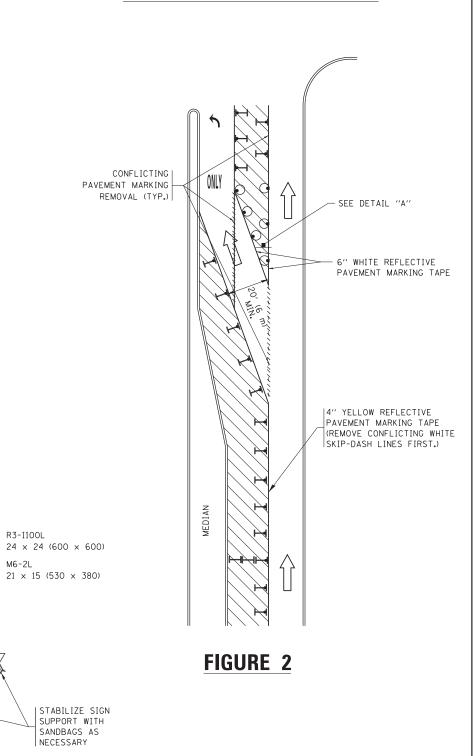
TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

SIGN ASSEMBLY

NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE



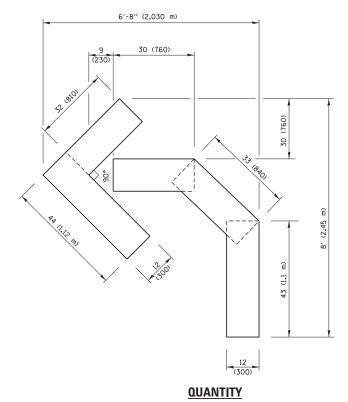
DETAIL A

TURN

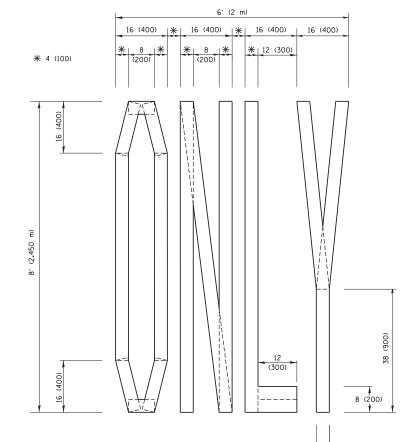
LANE

All dimensions are in inches (millimeters) unless otherwise shown.

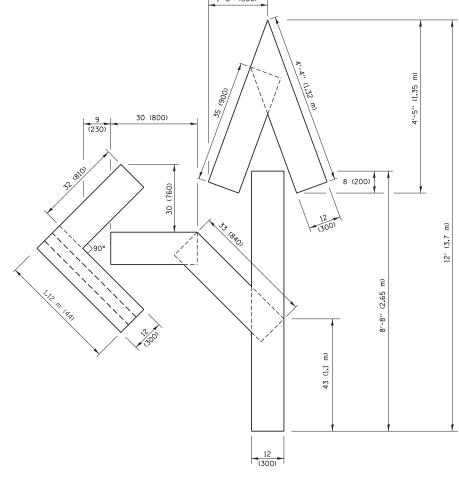
FILE NAME = REVISED -T. RAMMACHER 09-08-94 REVISED - R. BORO 09-14-09 USER NAME = footemj SECTION COUNTY TRAFFIC CONTROL AND PROTECTION AT TURN BAYS ments\IDOT Offices\District I\Projects\Dist #REXISE@ADData\C#QsH#@USEHI4#g07-95 REVISED - A. SCHUETZE 07-01-13 STATE OF ILLINOIS w:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\C 2010-120-I COOK 88 84 (TO REMAIN OPEN TO TRAFFIC) REVISED - A. HOUSEH 10-12-96 REVISED - A. SCHUETZE 09-15-16 **DEPARTMENT OF TRANSPORTATION** TC-14 CONTRACT NO. 60M68 SCALE: NONE SHEET 1 OF 1 SHEETS STA. REVISED - T. RAMMACHER 01-06-00 REVISED PLOT DATE = 9/15/2016



4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)



QUANTITY 4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

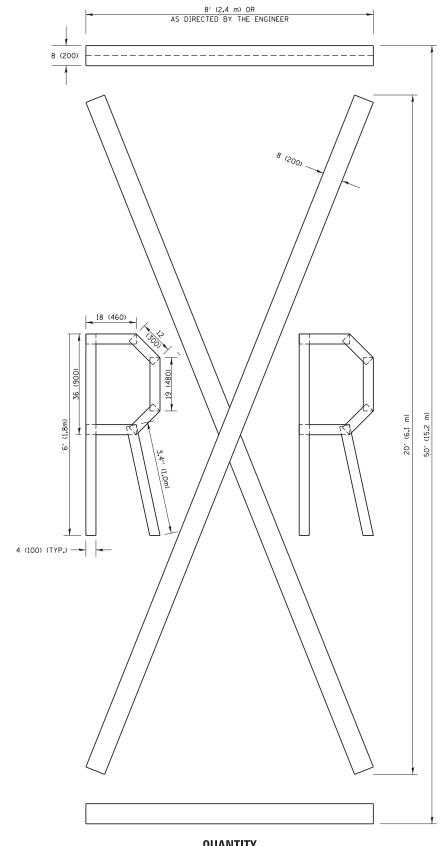


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

> All dimensions are in inches (millimeters) unless otherwise shown.

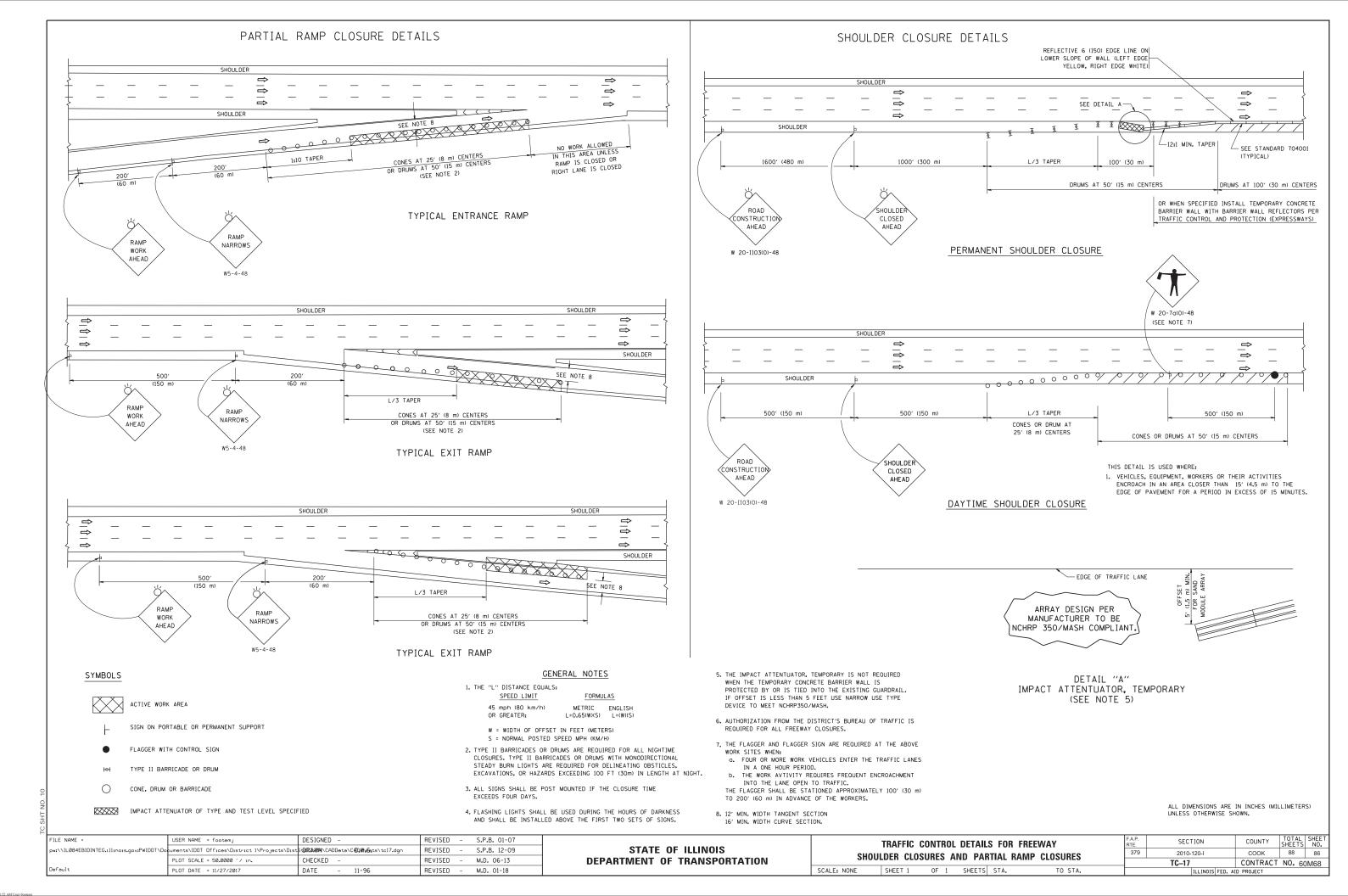
FILE NAME = USER NAME = footemj DESIGNED -REVISED -T. RAMMACHER 03-02-98 STATE OF ILLINOIS uments\IDOT Offices\District 1\Projects\Dist tORXWM\CADData\CADsheets\tc16.dgn ow:\\ILØ84EBIDINTEG.:ll:nois.gov:PWIDOT\Do REVISED -E. GOMEZ 08-28-00 CHECKED REVISED - E. GOMEZ 08-28-00 **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 9/15/2016 DATE REVISED - A. SCHUETZE 09-15-16 09-18-94

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

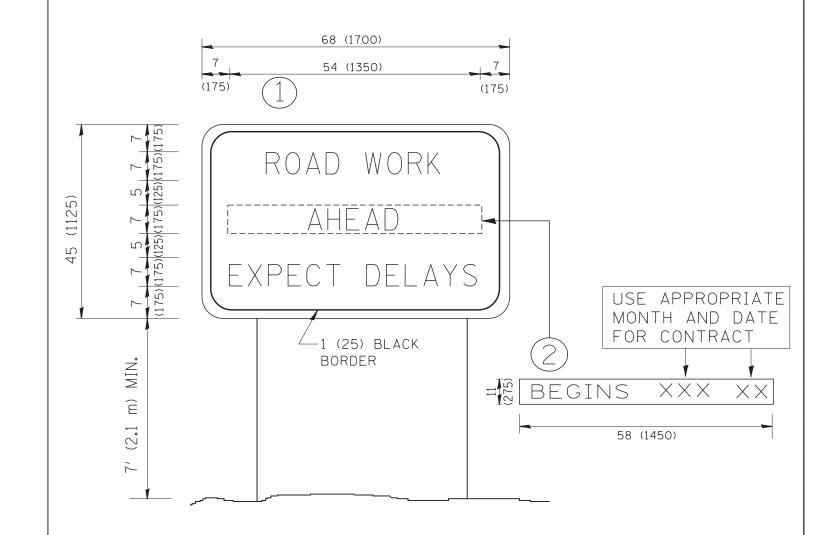
TOTAL SHEET NO. 88 85 SECTION COUNTY 2010-120-I соок 379 CONTRACT NO. 60M68

TC-16

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



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NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NONE

- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

TOTAL SHEET NO. 88 87

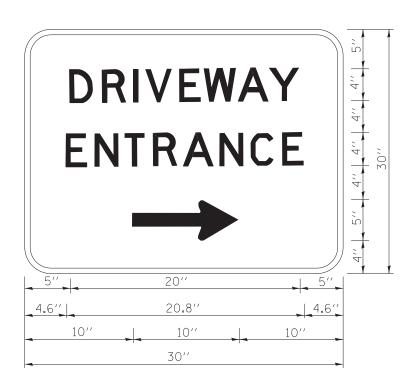
CONTRACT NO. 60M68

COOK

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED	- R. MIRS 09-15-97
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED	- R. MIRS 12-11-97
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED	- C. JUCIUS 01-31-07

STATI	E OI	F ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

					F.A.P. RTE.	SECTION	
	INFORMATION SIGN				379	2010-120-I	
INFORMATION SIGN			TC-22				
	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION