

Ο



## INDEX OF SHEETS

## SHEET NO. DESCRIPTION COVER SHEET 1 INDEX OF SHEETS, STATE STANDARDS, GENERAL NOTES 2 3-7 SUMMARY OF QUANTITIES 8-9 EXISTING AND PROPOSED TYPICAL SECTIONS 10 ALIGNMENT, TIES, AND BENCHMARKS 11-12 EXISTING AND PROPOSED ROADWAY PLAN 13 EXISTING AND PROPOSED ROADWAY PROFILE

- 14-15 EXISTING AND PROPOSED DRAINAGE AND UTILITY PLAN
- 16 EXISTING AND PROPOSED DRAINAGE AND UTILITY PROFILE
- 17 PROPOSED PAVEMENT MARKING AND LANDSCAPING PLANS
- 18 SIDEWALK DETAIL
- 19-24 DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-5)
- 25-28 DISTRICT ONE STANDARD LIGHTING DETAILS
- 29-35 PROPOSED TRAFFIC SIGNAL PLANS
- 36-41 PROPOSED INTERCONNECT PLANS
- 42 MAST ARM MOUNTED STREET NAME SIGNS
- 43-44 PROPOSED LIGHTING PLANS
- 45 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
- 46 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- 47 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- 48 BUTT JOINT AND HMA TAPER DETAILS
- 49 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS AND DRIVEWAYS (TC-10)
- 50 TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
- 51 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 52 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 53 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 54 ARTERIAL ROAD INFORMATION SIGN (TC-22)

## STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-07	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-01	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-01	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-03	FRAME & LIDS - TYPE 1
606001-05	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PCC ISLANDS AND MEDIANS
701101-64	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5mm) AWAY
701601-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH NONTRAVERSABLE MEDIAN
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-02	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
876001-03	PEDESTRIAN PUSH BUTTON POST
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
877012-03	STEEL COMB. MAST ARM ASSEMBLY AND POLE 56' THROUGH 75'
878001-09	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001~01	DETECTOR LOOP INSTALLATION
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

FILE NAME +	USER NAME = SMITHCJ	DESIGNED -	REVISED -			1	I RTE 62	AT MEACHAM DE	)	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
c:\pw.work\pwidot\smithej\d8267323\P1545	ll-sht-gannata.dgn	DRAWN ~	REVISED	STATE OF ILLINOIS		INFN OF AUFFT	1. 3111, VI		APRICAL NAVEA	339	116-85-5	СООК	5.4	7
	PLOT SCALE + 100.0000 1/ 14.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IP	VUEX OF SHEET	S, SIAIE	STANDARDS AND	GENERAL NUTES			CONTRAC	T NO. E	0¥05
	PLOT DATE = 10/10/2013	DATE -	REVISED		SCALES	SHEET	OF	SHEETS STA,	TO STA.	1	ILLINGIS FED.	ID PROJECT		

## GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUITER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUITER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGE OF SCHAUMBURG.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

WHEN CONSTRUCTING SIDEWALK RAMPS FOR THE HANDICAPPED (STATE STANDARD 424001), USE TYPE B RAMPS UNLESS OTHERWISE SPECIFIED.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT FOR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT MR. WALLY CZARNY, AREA TRAFFIC FIELD ENGINEER AT (847) 715-8419 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h), WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED. MS30L/MS30L, 01 /MS20L, 02 / 07POL, 01 /MS30L, 03/

			URBAN	l	2		4	3	1 Provinse 1			······································	
	SUMMARY OF QUANTITIES				C C	ONSTRUCT	ION TYPE C	ode T			SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL	FED 90% STATE 107 0004 ROADWAY	FED 907 STATE 7.57 VILLAGE 2.55 OO21 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLAGE 1007 0021 EVP	FED 90% STATE 10% 0021 LIGHTING		CODE NO		ITEM	UNIT
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	79	79						42001 300	PROTECTIVE (	COAT	SO YD
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	381	381						42400200	PORTLAND CEME	INT CONCRETE SIDEWALK 5 INCH	SO FT
21301084		E001	20		20					42400800	DETECTABLE	NARN I NGS	SO FT
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5						44000100	PAVEMENT RE	MOVAL	SO YD
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5	5						44000157	HOT-MIX ASP	HALT SURFACE REMOVAL, 2"	SO YD
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5						44000600	SIDEWALK RE	MOVAL	SO FT
25200110	SODDING, SALT TOLERANT	SO YD	381	381						44002208	HOT-MIX ASPHA	LT REMOVAL OVER PATCHES, 2"	SO YD
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	15	15						44003100	MEDIAN REMO	VAL	SO FT
40600300	AGGREGATE (PRIME COAT)	TON	71	71						44201765	CLASS D PAT	CHES, TYPE II, 10 INCH	SO YD
40600400	MIXTURE FOR CRACKS. JOINTS. AND FLANGEWAYS	TON	27	27						44201769	CLASS D PAT	CHES. TYPE III. 10 INCH	SO YD
						5							
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), 11-4,75, N50	TON	732	732						44201771	CLASS D PAT	CHES. TYPE IV. 10 INCH	SO YD
										60255500	MANHOLES TO	BE ADJUSTED	EACH
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						60619600	CONFRETE LE	DIAN TYPE CB-6 12	50 57
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	78	78							UVRUNEIE ME	5104 11L JU VI1L	20 F1
40603595	POLYMERIZED HOT-WIX ASPHALT SURFACE	TON	1739	1739						60620800	CONCRETE ME	DIAN, TYPE SB-9,12	SO FT
	COURSE. MIX"F", N90									67000400	ENGINEER' S	FIELD OFFICE. TYPE A	CAL NO
							 				SPECIALTY	( ITEM	
FILE NAME = eilar.workipateoilart	USER NAME : SWITHC/ DE USER NAME : SWITHC/ DE PLOT SCALE : 1000000 // IA PLOT DATE : 10/18/2011	1 SIGNED - AWN - ECKED - TF -	L	REVISED REVISED REVISED	   -   -	1	DI	ST EPARTME	TATE OF II Ent of tr	LINOIS ANSPORT/	TION	IL. RTE62_ SUMMARY	AT_MEACH/
L		· •		1 05 1360	· · · · · · · · · · · · · · · · · · ·		L	×			· · · · · · · · · · · · · · · · · · ·	I JULEI NU. UP	JUEF13   311

1			ÇC	INSTRUCT	ION TYPE CO	DDE		
	TOTAL OUANTITIES	FED 90% STATE 10% OOO4 ROADWAY	FED 90% STATE 7.5% VILLAGE 2.5% 0021 TRAFFIC SIGNALS	FED 907 STATE 102 0021 INTER- CONNECT	VILLAGE 100% 0021 EVP	FED 90% STATE 10 0021 LIGHTING	4	
1	500	500						
1								
	1054	1054						
-	32	32						<u></u>
-	171	171						
~~~								
_	]/[4]	1/(41						
	974	974	······					
_	690	690						
	680	680						
	300	300						
	100	100			·····			·
-	200	200						
								~-,
_	1	1						
	680	680						
	1540	1540					-	
_	6	6					-	
						·····	-	
٨,	M RD		F.A.P.	SEC		COUNTY 2	TOTAL	SHEET
-11	н_111). ГІСС		339	116-	RS-5	COOK	54	3

(			URBAN	· · · · · · · · · · · · · · · · · · ·	~	ANC TOWAT	AN THOR A	<u></u>	······	1 1			
	SUMMARY OF QUANTITIES			<b></b>			ION IYPE C					SUMMARY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 90% STATE 10% 0004 ROADWAY	STATE 7.5% STATE 7.5% WILLAGE 2.5% OO21 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLAGE 1007 0021 EVP	FED 907 STATE 107 0021 LIGHTING			CODE NO	ITEM	UNIT
67100100	MOBILIZATION	i. Sum	1	1			· · · · · · · · · · · · · · · · · · ·			•	72000100	SIGN PANEL - TYPE 1	SO FT
70102625	TRAFFIC CONTROL AND PROTECTION.	L SUM	I	1						•	72000200	SIGN PANEL - TYPE 2	SO FT
	STANDARD 701606												
70102630	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1						•	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT
	STANDARD 701601												
70102675										•	78000200	THERMOPLASTIC PAYEMENT MARKING - LINE	4" FOOT
10102633	STANDARD 701701									•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	6" F00T
						······							
70102640	TRAFFIC CONTROL AND PROTECTION.	LSUM	1	1						٠	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE	8" F00T
										•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	12" F00T
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4623	4623									
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	692	692						•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	24" FOOT
	SYMBOLS									•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4241	4241						•	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH
												REMOVAL	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3011	301 í									
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	106	106						•	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	387	387							81028210	UNDERGROUND CONDUIT. GALVANIZED STEEL.	FOOT
		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										2 1/2" DIA.	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	175	175							81028220		<b>5007</b>
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	514	514						-		3" DIA.	
<u></u>										•	<u>5</u>	SPECIALTY ITEM	
r ille NAME # cAper_worthpeldonsmill	USER NAME + SMITHCU CF40267303741545444-500200 PL01 SCALE + 1002000 */ In. PL01 DATE + 10/18/2013	DESTUNED - DRAWN - CHECKED - DATE -		REVISED REVISED REVISED REVISED	-		DI	ST EPARTME	ATE OF NT OF T	ILL RA	INOIS.	ATION SCALEJ SHEET NO. OF	62_AT_MEACH ARY OF QUAN SHEETS ST

T			(	CONSTRUCT	ION TYPE C	ODE	
-	TOTAL IUANTITIES	FED 90% STATE 10% OOO4 ROADWAY	FED 90% STATE 7.5% VILLAGE 2.5 0021 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLACE 100% 0021 EVP	FED 90% STATE 107 0021 LIGHTING	
	78		78				
	32.5		32, 5				
	692	692			·		
	4241	4241					
	3011	3011					
	106	106					
	387	387					
	175	175					
	228	228					
	228	228					
	2313		1 349	576		388	
	94		94				
	329		33			296	
			15 4 5				
M_ ITH	RD. Es		RTE. 339	SEC1	10N RS-5	COUNTY SI	EETS NO. 54 4

ſ			UKDIAN	, T	-	0110 701107	ION TYPE -	005					
	SUMMARY OF OUANTITIES		-		FED 907		ION ITPE C					SUMMARY OF QUANTITIES	T
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 90% STATE 102 COO4 ROADWAY	STATE 7.5% WILLAGE 2.5% OO21 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLAGE 100% 0021 EVP	FED 90% STATE 10% 0021 LIGHTING			CODE NO	ITEM	UNIT
• 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL.	FOOT	715		715		       	-		•	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT
	4" DIA.									-		20	
• 81400100	HANDHOLE	EACH	8		8					•	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT
• 81400200	HEAVY-DUTY HANDHOLE	EACH	4		4							30	
									-	•	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT
• 81400300	DOUBLE HANDHOLE	EACH	2		2							50	
• 81603035	UNIT DUCT, 600V. 2-10 NO.6. 1/0 NO.6	FOOT	1150					1150		•	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14	FOOT
	GROUND, (XLP-TYPE USE), 1" DIA.											70	
	POLYETHYLENE												
										•	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14	FOOT
81702417	ELECTRIC CABLE IN CONDUIT, 600V	FOOT	403					403				1 PAIR	ļ
	(XLP-TYPE USE) 3-1/C NO. 6, 1/C NO. 6												
										-	8/301805		+001
<ul> <li>61800200</li> </ul>	AERIAL CABLE, 2-1/C NO. 4 WITH	FOOT	708					708					
	MESSENGER WIRE		-							•	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FQOT
												GROUNDING CONDUCTOR, NO. 6 1C	
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL	EACH	2					2					
	MOUNT, 400 WATT									•	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	3			3							
	INSTALLATION									•	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH
												16 FT.	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1								
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14	FOOT	4566			4566					87700220	STEEL MAST ARM ASSEMBLY AND POLE. 36 FT.	EACH
	10												
*			-		1					•	10	SPECIALTY ITEM	
FILE NAME = cilor_wornDarisonsmi	USER NAME = SWTHCJ 0 USER NAME = SWTHCJ 0 PLOT SCALE = 000000 '/ IA 0 PLOT SCALE = 000000 '/ IA 0	ESIGNED - RAWN - HECKED -	, <b>k</b>	REVISED REVISED REVISED	) - ) - ) -	L	DI	ST	ATE OF NT OF T	ILL	INOIS NSPORTA	ILRTE62_/ SUMMARY	T_MEACH

UKDMY						
T		CC	ONSTRUCT	ION TYPE CO	ODE	
TOTAL QUANTITIES	FED 90% STATE 10% 0004 ROADWAY	FED 90% STATE 7.5% VILLAGE 2.5% 0021 TRAFFIC	FED 90% STATE 10% 0021 INTER-	VILLAGE 100% 0021 EVP	FED 90% STATE 10% 0021 LICHTING	
		SIGNALS	CONNECT			
750		750				
2004		2004				
3180		3180				
2015		2015				
		-				
3953		3953				
Eo		Eø				
30		30				
922		922				
						· · · · · · · · · · · · · · · · · · ·
		•	·····			
2		2				
		1				· · · · · · · · · · · · · · · · · · ·
		1				
	L	F.A.P. RTE.	SEC	TION		DTAL SHEET EETS NO.
ITIES		339	! 6-	RS-5	COOK	54 5

			URBAN	T		ANC 70/ 10-	AN TURE OF			<del>,,</del>				
	SUMMARY OF QUANTITIES		4	<u> </u>			ION TYPE CO					SUMMA	RY OF OUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 90% STATE 10% 0004 ROADWAY	STATE 7.57 VILLAGE 2.57 OO21 TRAFFIC SIGNALS	FED 90% STATE 10% DO21 INTER- CONNECT	VILLAGE 100% 0021 EVP	FED 90% STATE 10% 0021 LIGHTING			CODE NO		ITEM	UNIT
87700340	STEEL MAST ARM ASSEMBLY AND POLE, 58 FT.	EACH	1		1					•	88102717	PEDESTRIAN	SIGNAL HEAD, LED, I-FACE,	EACH
												BRACKET MOU	NTED WITH COUNTDOWN TIMER	
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1		1					•	88102757	PEDESTRIAN	SIGNAL HEAD, LED, 3-FACE,	EACH
	POLE 34 FT.											BRACKET MOU	NTED WITH COUNTDOWN TIMER	
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1		1					•	88200210	TRAFFIC SIG	NAL BACKPLATE, LOUVERED.	EACH
	POLE 36 FT.											AL, UM [ NUM		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12					•	88500100	INDUCTIVE LO	DOP DETECTOR	EACH
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4					•	88600100	DETECTOR LOG	DP, TYPE I	FOOT
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH	FOOT	33		33					•	88800100	PEDESTRIAN I	PUSH-BUTTON	EACH
	DIAMETER						1947 - Jan	·						
										•	89000100	TEMPORARY TI	RAFFIC SIGNAL INSTALLATION	EACH
- 87800420	DIAMETER	FOUT	21		<u></u>					•	89501400	RELOCATE EX	STING EMERGENCY VEHICLE	EACH
												PRIORITY SYS	STEM, DETECTOR UNIT	
87900200	DRILL EXISTING HANDHOLE	EACH	4		1	3					···-··			
										•	89501410	RELOCATE EX	STING EMERGENCY VEHICLE	EACH
88030020	SIGNAL HEAD. LED. 1-FACE, 3-SECTION.	EACH	8		8							PRIORITY SYS	STEM, PHASING UNIT	
											89502300	REMOVE ELECT	RIC CABLE FROM CONDUIT	FOOT
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	4		4									
	MAST-ARM MOUNTED									•	89502375	REMOVE EXIST	ING TRAFFIC SIGNAL	EACH
												EOUIPMENT		
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION,	EACH	4		4									
	1-5 SECTION, BRACKET MOUNTED									•	89502380	REMOVE EXIST	ING HANDHOLE	EACH
~										•		SPECIALTY	' ITEM	
File NAME = coox_worktowiaot.com	USER         NAME         SWITHC/         DE           VER         NAME         SWITHC/         DE           PL015         SCALE         # 000000 */ in.         Ct           PL015         SCALE         # 00/8/2013         DD	ISIGNED - IAWN - IECKED - ITE -	L	REVISED REVISED REVISED REVISED	- -		DE	S1 PARTME	ATE OF	ILI RA	INOIS	TION	ILRTE62_ SUMMARY SCALE1 SHEET NO, OF	AT_MEACH

	URBON	1					
	CH CHANNA			CONSTRUCT	ION TYPE C	ODE	
	TOTAL QUANTITIES	FED 90% STATE 10% 0004 ROADWAY	FED 907 STATE 7.5 VILLAGE 2. 0021 TRAFFIC SIGNALS	2 FED 90% 52 STATE 102 0021 INTER- CONNECT	VILLACE 1002 0021 EVP	FED 90% STATE 10% 0021 LIGHTING	
	3		3				
-							
-							
~	l		1				·
~							
-	12		12				
-		r 14-)					
-							
~~	17		1 2			 	
	12		13				
-							
-	1017		1017				
~							
-	5		5				
	1		1				
	4				4		
3							**********
	1				1		
-	6119			6119			
				**			
_	1		1				
-							
	, 1997 - 94 ( 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	9 <b>******</b> ****	· · · · · · · · · · · · · · · · · · ·				
, ,			11	_			
	**		+ 1				
_							
			te 4	2			TAL
1	M_RD.		RTE 33	SEC SEC	TION RS-5	COUNTY SH	EETS NO.
A.	FIED T	0 574.		POLO DICT IN T	h ( maisi sta	CONTRACT N	0. 60005

				URBAN	/							<u></u>	·····		
		SUMMARY OF QUANTITIES					ONSTRUCT	ION TYPE CO	DDE	[	-		SUMM	ARY OF QUANTITIES	
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	FED 902 STATE 107 D004 ROADWAY	STATE 7.5% STATE 7.5% VILLAGE 2.5% OO21 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLAGE 1002 0021 EVP	FED 90% STATE 10% 0021 LIGHTING			CODE NO		ITEM	UNIT
•	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		2		<b></b>				Z0004562	COMBINATION	CONCRETE CURB AND GUTTER	FOOT
													REMOVAL AND	REPLACEMENT	
•	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8		8									
								-			þ	Z0018500	DRAINAGE ST	RUCTURES TO BE CLEANED	EACH
•	XQ324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	1109				1109							
		SENSOR CABLE. NO. 20 3/C						 				Z0030850	TEMPORARY I	NFORMATION SIGNING	SO FT
											_				
	x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200	200						* -	20033024	MAINTAIN EX	ISTING LIGHTING SYSTEM	LSUM
	x6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	13	13						-   *	20033040	ELECTRIC SE	RVICE DISCONNECT, LIGHTING	EACH
		(SPECIAL)											AND TRAFFIC	SIGNAL	·
*	X8210015	TEMPORARY LUMINAIRE, HIGH PRESSURE	EACH	2					2		*	Z0033044	RE-OPTIMIZE	TRAFFIC SIGNAL SYSTEM LEVEL	I EACH
		SODIUM VAPOR, 400 WATT													
*	x8250091	COMBINATION LIGHTING CONTROLLER	EACH	1					1		*	Z0073510	TEMPORARY T	RAFFIC SIGNAL TIMING	EACH
*	x8570231	FULL-ACTUATED CONTROLLER AND TYPE V	EACH	t							_				
		CABINET, SPECIAL		-							~				
*	X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1			1								
											_				
×	X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1									
*	X8710024	FIBER OPTIC CABLE IN CONDUIT, NO.	FOOT	4644			4644								
		62.5/125, MM12F SM24F													
*	X8772115	TEMPORARY MAST ARM, ALUMINUM, 15FT	EACH	2					2						
		·													
	<	DNP-100%.STATE									•	^	SPECIALTY	( ITEM	
	FILE NAME * char_workhpwidofisadi	USER NAME = SWITHCI Inc. Juli 267.30.5491-5491-540-50020 PLOT SCALE = 100.0000 1/ In.	DESIGNED - DRAWN - CHECKED -		REVISED REVISED REVISED	D - D - D -		n	ST	ATE OF	IL TR		TION	ILRTE63 SUMMAI	2_AT_MEACI RY OF QUAN
		PL03 DATE > 10/18/2013	DATE -	······	REVISE	ð -		1		~~~				SCALES SHEET NO. OF	SHEETS S

T			C(	ONSTRUCT	ION TYPE CO	DDE		
	TOTAL DUANTITIES	FED 90% STATE 10% 0004 ROADWAY	FED 90% STATE 7.5% VILLAGE 2.5% 0021 TRAFFIC SIGNALS	FED 90% STATE 10% 0021 INTER- CONNECT	VILLAGE 100% 0021 EVP	FED 90% STATE 107 0021 LIGHTING		
	228	228			·····			
-								•••••
							-	<u></u> .
	15	15			····		-	********
	51.4	51,4						
┢								
	1		·			1		
-	· · · · · ·		·······					
-			1				-	
Ļ								
-			· · · · · · · · · · · · · · · · · · ·					
-				•				
-				•			<u> </u>	
-							ļ	
-								*****
_	1		1					
						·····		
					·			
								·····
-	****		******				-	
L	RN		F.A.P.	SEC	TION	COUNTY 2	OTAL	SHEET
T	ES		339	116-	RS-5	СООК	54	7

······															
FILE NAME "	USER NAME + SMITHCJ	DESIGNED -	REVISED -	MEACHAM BD AT II DTE 52			F.A.P.	SECTION	COUNTY	TOTAL	SHEET				
ci\p=_work\p=idot\smithcj\d0267383\PI545	ll-sht-typical.dg^	ORAWN -	REVISED -	STATE OF ILLINOIS MEACHAM RD. AT IL. RTE. 62 EXISTING AND PROPOSED TYPICAL SECTIONS		RTE.	SECTION	COUNTY	SHEETS	NO.					
	PLOT SCALE = 100.0000 1/ 10,	CHECKED -	REVISED -			EXISTING AND PROPOSED TYPICAL SECTIONS			CTIONS	339	116-RS-5	COOK	54	8	
Default	PLOT DATE : 10/24/2013	DATE -	REVISED -				L		CONTRACT	NO. 60	W05				
						1,0,0,0		2012213	3: **	2V 31A.	FED, ROAD DIST	NO. 1 ILLINOIS FED. /	ID PROJECT		



PROPOSED TYPICAL SECTION MEACHAM RD. STA. 57+28 TO 64+09 (NORTH LEG, FACING SOUTH AND INTERSECTION)



HOT-	MIX ASPHALT MIXTURE REQUIREMEN	NTS
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, (IL-9.5 mm)	4% @ 90 GYR
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR
PATCHES	CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR
	HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR

NOTE: THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

EXISTING TYPICAL SECTION MEACHAM RD. STA. 57+28 TO 64+09 (NORTH LEG, FACING SOUTH AND INTERSECTION)



- 9 PROPOSED PAVEMENT REMOVAL (10) PROPOSED 4.3' CONCRETE MEDIAN. TYPE SB 9.12
- (8) PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), 11-4.75, N50 3/4 "
- (7) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 1 3/4
- (6) PROPOSED COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
- (5) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL 2"
- (4) EXISTING CONCRETE MEDIAN, TYPE SB 9.12

- (3) EXISTING PCC BASE COURSE. ± 10"
- (2) EXISTING HMA SURFACE COURSE, ± 2 "

LEGEND

- (1) EXISTING CURB AND GUTTER, TYPE B-6.24

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURES IS 112 LBS/SQYD/IN. NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.



IL. BTE. 62 AT MEACHAM RD. EXISTING AND PROPOSED TYPICAL SECTIONS SCALE: SHEET OF SHEETS STA.

0' - 12'

(2)

0' - 12'

LANE

 $\bigcirc$ 

8

12

12

5

3











		RE ST ST ST ST ST ST ST ST ST ST ST ST ST	SURI A. 64	ACI1 + 09			+00		sect	02"FE 65- 10N		C00	969 1011 1011 1011 1011 1011 1011 1011 1	
		RE ST	SURI A. 64	ACI1 + 09						00 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			999 741.28	
		RE ST	SURI 	ACIN + 09		741.57				741.20			T41.28	
		REST	SURF A. 64	ACIN + 09										
		REST	SURF	ACII + 09	JG L									
		REST	SURF A. 64	ACIN + 09										· · · · · · · · · · · · · · · · · · ·
		REST	SURF A. 64	ACIN + 09										· · · · · · · · · · · · · · · · · · ·
		REST	SURF A. 64	ACII + 09	JG L									
		RE	SURF A. 64	ACIN += 09	IG I									
		REST	SURF A. 64	ACI + 09	JG L	IMIT								· · · · · · · · · · · · · · · · · · ·
		REST	SURF A. 64	ACIN + 09										
		RE ST	SURF A. 64	ACII + 09	IG L	IMIT								·····
		RE ST	SURF A. 64	ACII + 09	IG L									
		RE ST	SURF A. 64	ACII + 09	IG L									
		RE ST	SURF A. 64	AC11 + 09	IG L	IMIT								
		RE	SURF A. 64	AC11 + 09	IG L	IMIT								
		RF	SURF	ACIN	1G 1	IMIT								
	11													
		+												
)		62	 +00			63-	 +00			64	 +00		65+	+00
		36.76				38.22				39.31			39.91	
														1
					-			- <b>-</b>	_					
				P S	roje Ta 6	CT   3 + 2	ENDS 88	5						
I - T														
			F		1111									
			[::::]			<del>-</del>							 ·	







Image: second	) JAGE A	63 ND UTILI	2 3+00 TY PROFILE	64+00 F.A.P. RTE. 339	Q Q F F 65+00 SECTION 116-RS-5	000         54         15
Image: state		63 64	<u>p</u> <u>v</u> <u>v</u> 3+00	14 14 14 14 14 14 14 14 14 14 14 14 14 1	65+00 62 62 62 62 62 62 62 62 62 62 62 62 62	
		741.49		741.57	741.20	
			p	37	0	
Image: second						
9       1       PROJECT ENDS STA. 63 + 38       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1<						
PR0JECT ENDS         STA. 63 + 38         Sta. 64 + 39						
PROJECT ENDS         STA. 63 + 38         STA. 64 + 09						
PROJECT ENDS STA. 63 + 38 STA. 64 + 38 STA. 65 + 38 STA. 66 + 38 STA.						
Image: State of the state						
Image: State of the second s						
PROJECT: ENDS           STA. 63 + 38           STA. 64 + 05           STA. 64 + 05						
					· · · · · · · · · · · · · · · · · · ·	·····
PROJECT: ENDS STA: 63 + 38 9 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1		<u> </u> ]	I.M. 04 + US			
PROJECT ENDS STA 63 + 38 		RE				
PROJECT:         NDS         Image: Constraint of the second of the secon						
Image: state						
PROJECT ENDS           STA. 63 + 38           STA. 63 + 38 </th <th></th> <th></th> <th></th> <th></th> <th>01.00</th> <th></th>					01.00	
		62	2+00	8 2 63+00	64+00	65+00
Image: state stat		92	e l	53		<u></u>
[PROJECT: ENDS]						
PROJECT ENDS STA. 63 + 38						· · · · · · · · · · · · · · · · · · ·
Image: PROJECT ENDS           Image: STA. 63 + 38						
PROJECT ENDS STA. 63 + 38						
PROJECT: ENDS STA. 63 + 38						
PROJECT ENDS STA. 63 + 38			· · · · · · · · · · · · · · · · · · ·			
			PRO. STA	JECT ENDS 63 + 38		
			· · · · · · · · · · · · · · · · · · ·			
						·····
			• • • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · · · · ·
				a dia a a dia a a a di		



L	.ANDSC/	APING	PLAN	RTE.	SEC	TION		COUNTY	SHEETS	NO.
Δ١	СНАМ	RUVD		339	116-	RS-5		СООК	54	17
_								CONTRACT	NO. 6	0w05
S	STA.		TO STA.			ILLINOIS	FED. AIC	PROJECT		



D CROSSWALK	ORTHEAST SIDEWALK	
DETAIL IEACHAM RD	/ / / / / / / / / / / / / / / / / / /	COUNTY TOTAL SHEET SHEETS NO. COOK 54 18 CONTRACT NO. 60W05 D PROJECT

## LOOP DETECTOR NOTES

- 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.



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "I 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), IF 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.



DETAIL "A" LOOP-TO-LOOP SPLICE

23 (7)(6) ı¥Æ <u>₽₩--(7777)</u>/-(•]-

DETAIL "A"

PRE-FORMED LOOP

LOOP-TO-LOOP SPLICE

## LOOP DETECTOR SPLICE

1 western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.

(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.
- (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

FILE NAME =	USER NAME = SMITHCJ	DESIGNED -	DAD	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\smithcj\d0267303\DistS	td.dgn	DRAWN -	ВСК	REVISED -	STATE OF ILLINOIS		339	116-RS-5	СООК	54	19
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		CONTRAC	T NO. 6	JW05
	PLOT DATE = 10/18/2013	DATE -	10-28-09	REVISED -		SCALE: NONE SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "B" LOOP-TO-CONTROLLER SPLICE





	DESIGN DETAILS		339	339 116-RS-5						COOK	54		21
L DESIGN DETAILS			TS-05						CONTRACT	NO.	6(	)W05	
STA. TO STA.		FED.	ROAD	DIST.	NO. 1	ILL INOIS	FED.	AID	PROJECT				



	С	HEIGHT	WEIGHT
	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
1)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

1	NE	IE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	L DESIGN DETAILS		339	116-RS-5	СООК	54	22
1			_	TS05	CONTRACT	NO. 60	<b>DW05</b>
	STA. TO STA.			OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



EPTH OF	MASI	AKM	FOUNDA	TIONS,	ITPE	E

DNE	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	339	116-RS-5	СООК	54	23
AL DESIGN DETAILS		TS-05	CONTRACT	NO. 60	OW05
STA TO STA	FFO D	DAD DIST NO 1 TULINOIS FED A	ID PROJECT		

ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
' (9 <b>.</b> 1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
less than m)	11'-0" (3.4 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to less than m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
r equal to d up to m)	15'-0'' (4 <b>.</b> 6 m)	36'' (900mm)	30" (750mm)	12	7(22)
r equal to less than m)	21'-0" (6.4 m)	42'' (1060mm)	36" (900mm)	16	8(25)
r equal to d up to m)	25'-0'' (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVA	L <u>EXISTING</u>	PROPOSED	ITEM		REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET		$\bowtie$		EMERGENCY VEHI	CLE LIGHT DETECTOR	R⊲	$\triangleleft$		ELECTRIC CABLE IN CONDUIT, TRACER,		(1)	(1)
RAILROAD CONTROL CABINET				CONFIRMATION B	EACON	Rod	0()	н	NO. 14 1/C, UNLESS NOTED OTHERWISE			Ũ
COMMUNICATIONS CABINET	R	E C C				R		_	COAXIAL CABLE		— <u>c</u>	—©—
MASTER CONTROLLER		EMC		HANDHOLE							,	
MASTER MASTER CONTROLLER		EMMC		HEAVY DUTY HAN	IDHOLE	К	Н	Η	VENDOR CABLE FOR CAMERA		— <u>v</u>	—v—
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOL	E	R			COPPER INTERCONNECT CABLE,		— <u>(6)</u> —	(6)
SERVICE INSTALLATION,		-T-P	- <b>-</b> -	JUNCTION BOX		R	$\bigcirc$	0	FIBER OPTIC CABLE		$\sim$	0
(P) POLE OR (G) GROUND MOUNT			-	GALVANIZED STE	EL CONDUIT R PUSHED (P)				NO. 62.5/125, MM12F		—(12F)—	
(P) POLE OR (G) GROUND MOUNT	κŢ	Ē	Ī	TEMPORARY SPAN	N WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125. MM12F SM12F		-24F-	-24F-
STEEL MAST ARM ASSEMBLY AND P	OLE R		•	AND CABLE								
ALUMINUM MAST ARM ASSEMBLY AN	D POLE R	0		COMMON TRENCH				CT	NUMBER OF FIBERS & TYPE TO BE		-\$	-0-
STEEL COMBINATION MAST ARM		Q	• ×	COILABLE NONME	TALLIC CONDUIT (EMPTY)			CNC	CROLIND ROD AT (C) CONTROLLER			
STEEL COMPINIATION MAST ADM	R		•	SYSTEM ITEM			S	S	(H) HANDHOLE, (P) POST, (M) MAST ARM,		C III	°⊪⊢
ASSEMBLY AND POLE WITH PTZ CAN	MERA PI	□	۳ ۳	INTERSECTION IT	EM		Ι	IP	OR (S) SERVICE	2.05		
SIGNAL POST	R	0	•	REMOVE ITEM		R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 (		$\otimes$	٢	RELOCATE TIEM		RL			STEEL MAST ARM POLE AND	RMF		
	R	>-	~	ABANDON ITEM		А	$\square$	Ē	FOUNDATION TO BE REMOVED	0		
	B	-		12 (300mm) 187	AFFIC SIGNAL SECTION			ĸ	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD	->	>	-	12" (300mm) REE	WITH 8" (200mm)		(R)		FOUNDATION TO BE REMOVED	0		
(NUMBERS INDICATE THE CONSTRUCT	S TION STAGE)		→ <sup>2</sup>	TELLOW AND GRE	EN TRAFFIC SIGNAL FACE		C		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE		+>	+►				R	R	FOUNDATION TO BE REMOVED	0 4		
SIGNAL HEAD OPTICALLY PROGRAMM		. — (> ′′Р′′	<b>-</b> ► "P"	SIGNAL FACE			G	G	SIGNAL POST AND FOUNDATION	RMF		
FLASHER INSTALLATION	R	0 5 <sup>('F''</sup>	• • "F"				€¥	<b>₹</b> Y	TO BE REMOVED			
(S DENOTES SOLAR POWER)	O-D⇒″F′		<b>•••</b>				€G	<b>∢</b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			15
PEDESTRIAN SIGNAL HEAD	R -	-0	-1				R	R	SAMPLING (SYSTEM) DETECTOR		[]	ि
	R R			SIGNAL FACE WI	TH BACKPLATE.		$\square$	Y				5
FEDESTRIAN FUSHBUTTON DETECTOR	<b>`</b>	٩	•	"P" INDICATES F	PROGRAMMED HEAD		G	G <b>∢</b> Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETEC	TOR	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTT	ON DETECTOR	@APS	@ APS				<b>€</b> G	<b>∢</b> G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		°•	
ILLUMINATED SIGN	R						"P"	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETEC	TOR		
"NO LEFT TURN"				12" (300mm) PEE	ESTRIAN SIGNAL HEAD				PREFORMED INTERSECTION AND SAMPLING		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"		®	R	12" (300mm) PE	ESTRIAN SIGNAL HEAD						• -• ••	
				INTERNATIONAL	SYMBOL, OUTLINED		<b>X</b>		TILLIURMED SAMELING (SISIEM) DELECIUR			
		نے _ ہے۔ ج		12" (300mm) PE	ESTRIAN SIGNAL HEAD			<b>P</b>		CVN/D		
PREFORMED DETECTOR LOOP		ا P   اهــــــــــــــــــــــــــــــــــــ	P	INTERNATIONAL	SYMBOL, SOLID			<u>*</u>	KAILKUAD	<b>91 IVI D</b>	UL3	
MICROWAVE VEHICLE SENSOR	R		Ø	PEDESTRIAN SIG	NAL HEAD, INTERNATIONAL		C C	C C			FYISTING	PROPOSED
	R	Г <del>У</del> Н	ΓΩ <b>Ι</b>									
VIDEO DETECTION CAMERA				RADIO INTERCON	NECT	- <del>   I</del>		-  +++•●	RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE				RADIO REPEATER		RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM		X <del>ox X</del> X	Xex
PAN. TH T. 700M CAMERA	R אדים ו	र्षाव ]		DENOTES NUMBER	OF CONDUCTORS. FLECTRIC				FLASHING SIGNAL		XoX	X <del>o</del> X
The First Comment			$\sim$	CABLE NO. 14, U	NLESS NOTED OTHERWISE,		5	-(5)	CROSSING GATE		XoX>	XOX
WIRELESS DETECTOR SENSOR		(W)	Ŵ		N CONDUCT		,		CROSSBUCK		$\sim$	$\mathbf{\times}$
WIRELESS ACCESS POINT	R			NO. 6 SOLID CO	PPER (GREEN)		— - <u>(</u> 1)— -	— ()— ·			~	T
FILE NAME = USER N	NAME = SMITHCJ	DESIGNED - DAG/BCK	REVISED	-	<b></b>				DISTRICT ONE	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\smithcj\d0267303\DistStd.dgn PLOT S	SCALE = 100.0000 ′ / 1n.	DRAWN - BCK CHECKED - DAD	REVISED - REVISED -	-	STATE DEPARTMENT	: UF ILLINOIS OF TRANSPO	) RTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	339	116-RS-5 TS-05	COOK 54 24
PLOT D	DATE = 10/18/2013	DATE - 10-28-09	REVISED	-			. –	SCALE: NO	NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS FED	AID PROJECT



	NOT	ES
	1.	ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
	2.	THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
		TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
		TYPE AL FULLY EQUIPPED FOR 240/120V. 3W SERVICE, Blank Cover in Lieu of Lighting Main Breaker
31D MAX. 1.8 mm × 203.2 mm)		TYPE B EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 60A. TRAFFIC SIGNALS MAIN BREAKER
URE		TYPE BI EQUIPPED FOR 120V. SERVICE, COMPLETE WITH 19, 40A. TRAFFIC SURVEILLANCE MAIN BREAKER
NEL FOR ERVICE BOX.	3.	THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
SCREW TO	4.	THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 8"D, WITH A PIANO-HINGED DOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DORR STOP, HOFFMAN CATALOC NO. A-16H1208SS6LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
	5.	CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REOUIREMENTS. HANDLES SHALL BE TRIP FREE.
EL	6.	THE SURCE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURCE ENERGY CAPABILITY OF 2160 JOULES ON BETTER AT 8/20 MICRO- SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EQUAL.
	7.	BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
	8.	THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED GREEN. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
	9.	THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEOUATE ROOM FOR PERFORMING FIELD TERMINATIONS,
	10.	A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
	11.	A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.

- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
- 13. THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

RAFFIC	SIGNAL	
IAIN FEI	EDER	
/C <b>"</b> 6 &	1*8 GND.	
ULTI-CO	ONDUCTOR	CABLE

& TRAFFIC POLE Vice box detail		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		339	116-RS-5	СООК	54	25	
			BE-230	CONTRACT	CONTRACT NO. 60W05		
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		



8/24/11

	BILL OF MATERIALS
QUANTITY	DESCRIPTION
1	CIRCUIT BREAKER, THERMAL MAGNETIC MOLDED CASE, 2 POLE, 240 VOLT 100 AMP FRAME, 30 AMP TRIP, INTERRUPTING RATING 22K RMS SYMETRICALL AMP
1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 30 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
2	CIRCUIT BREAKERS, 2 POLE, 100 AMP. FRAME 20 AMP. NON-INTERCHANGABLE TRIP INTERUPTING RATING NEMA 10,000 AMP AT 240 V.
1	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 100 AMP FRAME, 15 AMP NON-INTERCHANGABLE TRIP, INTERRUPTING RATING 22K RMS SYMETRICAL AMP AT 240V.
1	ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH]
1	H-O-A SWITCH
1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUCS AND 4 SPARE LUGS
1	COPPER NEUTRAL BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
1	RELAY, 2 POLE, SINGLE THROW, 120 VOLT COIL, CURRENT RATING TO BE COORDINATED WITH CONTACTOR

ST	. TO STA.		ILLINOIS FED. A	ID PROJECT				
		BE-235 CONTRACT NO. 60W05						
IING CONTROLLER		339	116-RS-5	COOK	54	26		
T. T. N. 1.4		F A P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		



	DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		339	116-RS-5	СООК	54	27	
				BE-702	CONTRACT	NO. 6	<b>JW05</b>
	STA.	TO STA.	FED. RC	AD DIST. NO. 1 ILLINOIS FED. 4	ID PROJECT		



FILE NAME =	USER NAME = SMITHCJ	DESIGNED -	REVISED - 08-08-03					F.A.P.	SECTION	COUNTY	TOTAL S	HEET
c:\pw_work\pwidot\smithcj\d0267303\DistS	td.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	TEMPORARY LIGHT FOLE DETAILS				116-RS-5	СООК	54	28
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				BE-800		CONTRACT	NO. 60	N05
	PLOT DATE = 10/18/2013	DATE -	REVISED -	SCAL		SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A		AID PROJECT		



### NOTES FOR TEMPORARY TRAFFIC SIGNALS

- 1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
- 2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDDT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
- 3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLER CABINET TO THE SIGNAL HEAD.
- 4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
- 5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
- 6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS 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.





LE NAME =	USER NAME = SMITHCJ	DESIGNED - PKG	REVISED -		TEMPORARY	( TRAFFIC SIG	NAL IN	STALLATI
\pw_work\pwidot\smithcj\d0267315\P1545	l-sht-ts.dgn	DRAWN - EA, EB	REVISED -	STATE OF ILLINOIS	ILLING	DIS ROUTE 62	(ALGON	JQUIN RO
PLOT SCALE = 40.0000 ' / in.		CHECKED - PKG	REVISED -	DEPARTMENT OF TRANSPORTATION			(SHI	EET 2 OF
	PLOT DATE = 10/18/2013	DATE - 7/19/2013	REVISED -		SCALE: 1"=20'	SHEET NO.	OF	SHEETS

7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS, WITH FIRE STATION ACTUATED EMERGENCY VEHICLE

N

. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.

10.WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

004

~

 $\mathcal{O}$ 

~

2

 $\searrow$ 

1

 $\supset$ 

6/

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

ILLINOIS ROUTE 62 (ALCONOUIN ROAD)

LLATION PLAN AND REMOVAL PLAN N ROAD) AT MEACHAM ROAD		F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
		339	116-	RS-5		СООК	54	30	
2 OF 2	2)		_				CONTRACT	NO. 6	0w05
IEETS	STA.	TO STA.	FED. RO	OAD DIST. NO	ILLINOIS	FED. AI	D PROJECT		





pw_work\pwidot\smithcj\d0267315\P1545	1-sht-ts.dgn	DRAWN -	EA, EB	REVISED -	STATE OF ILLINOIS	ILLIN	OIS ROUTE 62	(ALGO	AL INST. NQUIN
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	PKG	REVISED -	DEPARTMENT OF TRANSPORTATION	1		(SH	ieet 1 (
	PLOT DATE = 10/18/2013	DATE -	7/19/2013	REVISED -		SCALE: 1"=20'	SHEET NO.	OF	SHEET

		OIS ROUTE 62 (AL CONOUT $\xi_{X_{15T}, R, 0, W}$	000 000 000 000 000 000 000 000	ATCH LINE STA. 56+00	
	AIST. R.O.M.	TO 5TOP BAR 17'-UC (3) 1" CNC TO'-UC 2"	Mta TCH, LI, Mta TCH, LI, Mt		X THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.







## **CONTROLLER SEQUENCE**



7/19/2013

REVISED

DATE

PLOT DATE = 10/18/2013

	OVERLAP LETTER		PERMISSIVE PHASE	PROTECTED PHASE
АМ	Α	=	2 +	3
	в	=	4 +	5
	С	=	6 +	7
	D	=	8 +	1

	↓Ļ	ļĻ	^↑↑

	PHAS	E DESIGNATION	DIAGR	AM,	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
EMERGENCY \	EHICLE PREEM	PTION SEQUENC	, AND	SCHEDULE OF QUANTITIES	339	116-RS-5	СООК	54	35
ILLIN	DIS ROUTE 62	(ALGONQUIN RO	AD) AT	MEACHAM ROAD			CONTRACT	NO. E	50W05
SCALE: 1"=20'	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO ILLINOIS FED. A	D PROJECT		-



FILE NAME =	USER NAME = SMITHCJ	DESIGNED -	PKG	REVISED -			TEN	VIPORARY	INTERCO	F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET NO.		
c:\pw_work\pwidot\smithcj\d0267315\P1545	ll-sht-ts.dgn	DRAWN -	EA, EB	REVISED -	STATE OF ILLINOIS	ILLI	NOIS ROUTE	62 (ALGO	NQUIN F	ROAD) AT MEA	ACHAM ROAD	339	116-RS-5	СООК	54	37
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	PKG	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO.	50W05	
	PLOT DATE = 10/18/2013	DATE -	7/19/2013	REVISED -		SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT		





THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH
THE EXISTING ADJACENT SYSTEM.





THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH
THE EXISTING ADJACENT SYSTEM.

NECT SCHEMATIC	COUNTY	TOTAL SHEETS	SHEET NO.
ROAD) AT MEACHAM ROAD 339 116-RS-5	СООК	54	38
	CONTRACT	NO. 6	0W05
STA. TO STA. FED. ROAD DIST. NO ILLINOIS FED. AID	PROJECT		





DEPARTMENT OF TRANSPORTATION

PLOT SCALE = 100.0000 '/ in.

PLOT DATE = 10/18/2013

CHECKED - PKG

- 7/19/2013

DATE

REVISED

REVISED



THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH
THE EXISTING ADJACENT SYSTEM.

		INTER	CONNECT	PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLII	NOIS ROUTE 62	(ALGU) 2 (SH	NUUIN KU IFFT 2 OF	AD) AT MEACHA	M KUAD	339	116-RS-5	COOK	54	40
		(3)		2)				CONTRACT	NO. 6	OW05
SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





THE TRAFFIC SIGNAL CONTROL
EQUIPMENT FOR THIS PROJECT
SHALL BE "ECONOLITE" TO MATCH
THE EXISTING ADJACENT SYSTEM.

SCHEMATIC	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ROAD) AT MEACHAM ROAD		116-F	RS-5		СООК	54	41
					CONTRACT	NO. 6	0W05
STA. TO STA.	FED. RC	DAD DIST. NO	ILL INOIS	FED. AI	D PROJECT		



	USER NAME = SMITHCJ	DESIGNED - PKG	REVISED -				MAS				F.A.P.	SECTION	COUNTY	TOTAL	SHEET
\smithcj\d0267315\P1545	.l-sht-ts.dgn	DRAWN - EA, EB	REVISED -	STATE OF ILLINOIS			STR	FFT NAME	SIGNS		339	116-RS-5	соок	54	42
	PLOT SCALE = 40.0000 ' / in.	CHECKED - PKG	REVISED -	DEPARTMENT OF TRANSPORTATION	STREET NAME SIGNS							CONTRAC	T NO. 6	0005	
Ρ	PLOT DATE = 10/18/2013	DATE - 7/19/2013	REVISED -		SCALE: 1"=20'	SHEET NO.	OF	SHEET	S STA.	TO STA.	FED. ROAD DIST	NO ILLINOIS FED. A	D PROJECT		

EXAMPLE,  $2^{3}$  DENOTES  $\frac{3^{\prime\prime}}{2}$ 

.

### UPPER AND LOWER CASE LETTER WIDTHS

2	z
С	D
2	14
6	17
4	15
4	15
1	12
õ	21
õ	2 <sup>1</sup>
2	14
2	14
2	14
2	14
2	14
1	12
5	21

z					
С	D				
6	17				
2	14				
2	14				
6	10				
2	14				
1	12				
2	14				
2	14				

ç		
:	D	
5	17	
D	2 <sup>1</sup>	
1	15	
1	15	
1	15	
?	14	
I	15	

Ĕ	6 INCH CASE L	CASE LETTERS CASE LETTERS T		CASE LETTERS		G INCH LOWER CASE LETTERS		
T E	SEF	SERIES SERIES		SERIES		SERIES		
R S	С	D	C D		RS	C	D	
A	36	50	50	65	٥	35	42	
В	32	40	4 3	53	Þ	35	42	
C	32	4 <sup>0</sup>	4 3	53	с	35	41	
D	32	40	4 3	53	d	35	42	
E	30	35	40	47	9	35	42	
F	30	35	40	47	f	2 3	26	
G	32	40	4 3	53	g	35	42	
н	32	40	4 3	53	h	35	42	
I	07	07	۱ <sub>۱</sub>	12	t	11	11	
J	30	36	40	50	j	20	22	
K	32	41	4 3	54	ĸ	35	42	
L	30	35	40	47	I	11	11	
M	37	45	51	61	m	60	70	
N	3 <sup>2</sup>	40	4 3	53	n	35	42	
0	34	42	45	55	0	36	43	
P	32	40	4 3	53	ρ	35	42	
0	34	4 <sup>2</sup>	45	55	q	35	42	
R	32	40	4 3	53	r	26	3 <sup>2</sup>	
S	32	40	43	53	s	36	42	
T	30	35	40	47	t	27	32	
U	32	4 <sup>0</sup>	4 3	53	c	35	42	
۷	35	44	47	60	v	42	47	
W	44	52	60	70	w	55	64	
x	34	40	45	53	×	44	51	
Y	36	50	50	66	У	46	53	
Z	3 <sup>2</sup>	40	43	53	z	36	43	

NU	6 INCH	SERIES	8 INCH	SERIES
" <sup>B</sup> E <sub>R</sub>	С	D	С	D
1	12	14	15	20
2	32	40	43	53
3	32	40	43	53
4	35	4 3	47	57
5	32	40	4 3	53
6	32	40	43	53
7	32	40	43	53
8	32	40	43	53
9	<u>3</u> 2	40	4 3	53
0	34	42	45	55

## 

	LEGEND		
⊶苁♣	PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W, 240V HPS, COBRA HEAD LUMINAIRE, TYPE MC-III,		
-স্য	TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TO MATCH EXISTING		CONSTRUCTION NOTES
0-}₹	EXISTING LIGHT UNIT TO BE REMOVED	NOTE 1.	INSTALL A NEW 2" GALVANIZED STEEL CONDUITS TO THE PROPOSED COMBINATION MAST ARM FOUNDATION IN THE SOUTHWEST CORNER.
0€	EXISTING LIGHT UNIT TO REMAIN IN PLACE	NOTE 2.	STREET LIGHTING CABLES SHALL PASS THROUGH THE TRAFFIC SIGNAL FOUNDATION WITHOUT ANY SPLICING OR MAKING ANY CONNECTION AT
	UNDERGROUND CONDUITS SIZE AS INDICATED		THIS LOCATION. THE LIGHTING CABLES SHALL GO TO THE COMBINATION TRAFFIC SIGNAL FOUNDATION ON THE NORTH WEST CORNER ISLAND AND POWER THE LUMINAIRE AT THAT LOCATION.
ـــــــ	EXISTING UNDERGROUND CABLES TO BE REMOVED	NOTE 3.	CONTRACTOR TO AERIALLY CONNECT TEMPORARY COMBINATION POLE IN THE NORTHWEST CORNER: AND TEMPORARY COMBINATION POLE IN THE SOUTHEAST CORNER ISLAND TO THE EXISTING LIGHTING SYSTEM.
	EXISTING CABLES AND CONDUITS TO REMAIN IN PLACE		OR AMPACITY.
——————————————————————————————————————	AERIAL CABLE, 2-1/C NO. 4 WITH MESSENGER WIRE	NOTE 4.	INSTALL A NEW 2" GALVANIZED STEEL CONDUIT FROM THE CONTROLLER TO THE PROPOSED COMBINATION MAST ARM FOUNDATION IN THE SOUTHWEST CORNER.
	COMBINATION LIGHTING CONTROLLER	NOTE 5.	INSTALL & NEW 2" GALVANIZED STEEL CONDUIT TO THE PROPOSED
	PROPOSED UNIT DUCT		COMBINATION MAST ARM FOUNDATION IN THE SOUTHEAST ISLAND.
		NOTE 6.	INSTALL A TEMPORARY MAST ARM, ALUMINUM, 15 FT ON THE WOOD POLE.
(1)	IEMPORARY AERIAL CABLE 2-IC NO.4 WITH MESSENGER WIRE		
2	PROPOSED 3-1/C NO.6 & 1/C NO. 6 GRD. ELECTRIC CABLE IN PROPOSED 2" GALVANIZED STEEL CONDUITS		
3	PROPOSED 3-1/C NO.6 & 1/C NO. 6 GRD. UNIT DUCT		
4	EXISTING 3-1/C NO.6 & 1/C NO. 6 GRD.		

ELECTRIC CABLE IN EXISTING CONDUITS

### GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT. 1.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE 2. TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
- ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE 3. FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
- 4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS (LATEST EDITION).
- THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE 6. LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
- ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT 7. WILL NOT BE MADE.
- CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE 8. DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
- 10. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE FUNCTION FOR ANY FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.



TO STA.

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



FILE NAME =	USER NAME = SMITHCJ	DESIGNED -	PKG	REVISED -		1					
c:\pw_work\pwidot\smithcj\d0267315\P1545	l-sht-ts.dgn	DRAWN -	EA, EB	REVISED -	STATE OF ILLINOIS		NOIS BOUTE 6	2 (ALGO	SHIING PL	.ΑΝ 3ΔΠ\ΔΤ	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG REVISED -		REVISED -	DEPARTMENT OF TRANSPORTATION						
	PLOT DATE = 10/18/2013	DATE -	7/19/2013	REVISED -		SCALE: 1"=50'	SHEET NO.	OF	SHEETS	STA.	



LE NAME =	USER NAME = SMITHCJ	DESIGNED - PKG	REVISED -								
\pw_work\pwidot\smithcj\d0267315\P1545	l-sht-ts.dgn	DRAWN - EA, EB	REVISED -	STATE OF ILLINOIS		NOIS BOUTE 62 (	AIGONOLINE D	BOC			
	PLOT SCALE = 100.0000 ' / in.	CHECKED - PKG	REVISED -	DEPARTMENT OF TRANSPORTATION							
	PLOT DATE = 10/18/2013	DATE - 7/19/2013	REVISED -		N.T.S.	SHEET NO. 0	F SHEETS	s			

CONTRACT NO. 60W05 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



Cityperwork/yeudot/smithe/d02673301/sts     Cdgn     CREVISE     REVISE     <	FILE NAME =	USER NAME = SMITHCJ	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04				F.A.P.	SECTION	COUNTY	SHEFT	SHEET
PLOT SCALE = 100.0000 / 1n.       CHECKED -       REVISED - R. BORO 03-09-11       DEPARTMENT OF TRANSPORTATION       FRAMES AND LIDS ADJUSTIMENT WITH MILLING       BB600-03 (BD-8)       CONTRACT NO. 60W05         PLOT DATE = 10/18/2013       DATE - 10-25-94       REVISED - R. BORO 12-06-11       DEPARTMENT OF TRANSPORTATION       SCALE: NONE       SLEET NO. 1 OF 1 SHEETS       STA.       TO STA.       FED. ROAD DIST. NO. 1 [LLINGIS FED. ALD PROJECT	c:\pw_work\pwidot\smithcj\d0267303\Dist	itd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			339	116-RS-5	СООК	54	45
PLOT DATE = 10/18/2013 DATE - 10-25-94 REVISED - R. BORO 12-06-11 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1  LLLINGIS FED. ALD PROJECT		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILLING		BD600-03 (BD-8)	CONTRAC	T NO. F	0W05
		PLOT DATE = 10/18/2013	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED.	ROAD DIST. NO. 1 ILLINOIS FE	D. AID PROJECT		

### 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  $1^{\prime}_{2}$  (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 ENGINEER."

## LEGEND

1	SUB-BASE GRANULAR MATERIAL	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	0
டு	EXISTING STRUCTURE	(9) PROPOSED HMA BINDER COURSE

5 EXISTING STRUCTURE

### 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 (SPECIAL)."

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.

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

 $\overline{(7)}$ 



FILE NAME =	USER NAME = SMITHCJ	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	27-98     PAVEMENT PATCHING FOR     F.A.P. RTE.       1-07     STATE OF ILLINOIS     339		PAVEMENT PATCHING FOR		PAVEMENT PATCHING FOR		F.A.P.	SECTION	COUNTY	TOTAL	HEET
c:\pw_work\pwidot\smithcj\d0267303\DistS	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07					116-RS-5	СООК	54	46			
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT			BD40	0-04 (BD-22)	CONTRACT	NO. 60	N05		
	PLOT DATE = 10/18/2013	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		FED. ROAD DIS	T. NO. 1 ILLINOIS FED. AT	D PROJECT				

OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

## PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

## SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST  $4\frac{1}{2}$  INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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



SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

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

ND GUTTER Placement		F.A.P. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
		339 116-RS-5				СООК	54	47	
			BD600-06 (E	3D-24)		CONTRACT	NO. 6	0W05	
	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FE	D. AI	D PROJECT		



AND ETAILS		F.A.P. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
		339	116-	RS-5		СООК	54	48	
			BD400-05	BD32		CONTRACT	NO. 60	<b>DW05</b>	
	STA.	TO STA.	FED. RC	DAD DIST. NO. 1	ILLINOIS F	ED. AIC	PROJECT		

SCONSTRUCTION SCONSTRUCTION 15 (380) 21 (530) 15 (30) 21 (530) 15 (30) 15 (30	TYPE III BARRICAD WITH TWO FLASHIN LIGHTS ON EACH. 20 WORK ARE 1000 UNIT 1000 UNIT 100	
TRAFFIC CONTROL	AND PROTECTION FOR	
NOTES: A. FOR NO LANE RESTRICTION ON THE 1. SIDE ROAD WITH A SPEED LIMIT OF SHOWN ON THE DRAWING AND AS DIR O' ONE ROAD CONSTRUCTION AHEAD SI AND FLAG MOUNTED ON IT APPROX OF THE MAIN ROUTE. b) THE CLOSED PORTION OF THE MAI BLOCKING WITH TYPE I, TYPE II ( THE CROSS SECTION OF THE CLOS 2. SIDE ROAD WITH A SPEED LIMIT GRE AS SHOWN ON THE DRAWING AND AS O) ONE ROAD CONSTRUCTION AHEAD SI FLASHER MOUNTED ON IT APPROXI OF THE MAIN ROUTE. b) THE CLOSED PORTION OF THE MAI	<u>SIDE ROAD OR DRIVEWAYS</u> 40 MPH (60 km/h) OR LESS AS RECTED BY THE ENGINEER: SIGN 36 x 36 (900x900) WITH A FLASHER XIMATELY 200' (60 m) IN ADVANCE IN ROUTE SHALL BE PROTECTED BY OR TYPE III BARRICADES, 1/3 OF SED PORTION. EATER THAN 40 MPH (60 km/h) 5 DIRECTED BY THE ENGINEER: SIGN 48 x 48 (1,2 m x 1,2 m) WITH A IMATELY 500' (150 m) IN ADVANCE IN ROUTE SHALL BE PROTECTED BY	
BLOCKING WITH TYPE III BARRICA OF THE CLOSED PORTION. 3. WHEN THE SIDE ROAD LIES BETWEEN SIGNING AND THE WORK ZONE, A SIN BE USED IN LIEU OF THE DOUBLE H	NDES, 1/2 OF THE CROSS SECTION N THE BEGINNING OF THE MAINLINE NGLE HEADED ARROW (M6-1) SHALL WEADED ARROW (M6-4).	
I		

FILE NAME =	USER NAME = SMITHCJ	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95			TRAFFIC CONTROL AND REOTECTION FOR	F.A.P. SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\smithcj\d0267303\DistS	td.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			339 116-RS-5	соок	54	49
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		TC-10	CONTRACT	NO. 6	JW05
	PLOT DATE = 10/18/2013	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS F	ED. AID PROJECT		



## SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

в.	FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
	USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC
	CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD).
	THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD
	CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW
	SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE
	SIDE ROAD LANE CLOSURE.

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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



FILE NAME = USE	SER NAME = SMITHCJ	DESIGNED -	REVISED	- T. RAMMACHER 09-19-94			TVDICA		TIONS		F.A.P. RTF.	SECTION	COUNTY	TOTAL	L SHEET
c:\pw_work\pw1dot\sm1thcj\d0267303\D1stStd.dg	lgn	DRAWN -	REVISED	-T. RAMMACHER 03-12-99	STATE OF ILLINOIS						339	116-RS-5	СООК	54	50
PLO	OT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNUW-PLOW RESISTANT)			TC-11	CONTRAC	CT NO.	60W05			
PLO	OT DATE = 10/18/2013	DATE -	REVISED	- C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD DI	IST. NO. 1 ILLINOIS FED	AID PROJECT		-

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.
 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dim	iensions	are	în	inches	(millimeters)
unless	s otherw	ise	sho	wn.	



03-19-90

REVISED

DATE

PLOT DATE = 10/18/2013

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOL ID	YELLOW	11 (280) C-C
	SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C Omit Skip-Dash centerline between
WAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
EING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
JLL 4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
	SOL ID SOL ID SOL ID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
H ALS JSED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING,
(300) (	SOL 1D	WHITE	DIAGONALS: 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 (0VER 45MPH (70 km/h))
/ERSE 6'(1.8 m) 0)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO, FT. (5.0 m <sup>2</sup> )
	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) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

DNE MARKINGS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			339	116-RS-5	СООК	54	51
				TC-13 CONTRACT NO. 60W			
	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

	CONFLICTING PAVEMENT MARKING REMOVAL	WHITE RI MARKING	EFLECTORIZED P TAPE
		YELLOW F MARKING	REFLECTORIZED F TAPE 1. CONES M DAY OPE ARE BEIN HEIGHT ( 2. STEADY OPERATION 3. REFLECTION THE BAR THAN FO
			4. THIS APP AND THE LANE" R
		LEGEND	6. LONGITU
		WORK AREA	7. FORM OP 8. IF A DRI NCHRP 3 THE BAR
		LANE OPEN TO TRAFFIC	9. TRAFFIC SHALL BI ITEMS.
	н	TYPE I OR II BARRICADE WITH STEADY BURN LIGHT	
	Q	DRUM WITH STEADY BURN LIGHT	
	۲	DRUM WITH SIGN (WITH OPTIONAL FLAS) LIGHT) SEE DETAIL	ING
	н	TYPE I OR II CHECK BARRICADE WITH F	LASHING LIGHT
STATE OF U		TRAFFIC CONTROL AI	ND PROTECTION

FILE NAME =	USER NAME = SMITHCJ	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	BORO 09-14-09 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SI	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS		F.A.P.	SECTION	COUNTY	TOTAL	SHEE T
c:\pw_work\pwidot\smithcj\d0267303\DistS	td.dgn	REVISED - A. HOUSEH 11-07-95	REVISED -				339	116-RS-5	СООК	54	52
	PLOT SCALE = 100.0000 '/ in.	REVISED - A. HOUSEH 10-12-96	REVISED -	DEPARTMENT OF TRANSPORTATION		(TO REMAIN OPEN TO TRAFFIC)		TC-14	CONTRACT	NO. 6	JW05
	PLOT DATE = 10/18/2013	REVISED -T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



ΡΑΥΊΤ

### PAV'T

## GENERAL NOTES

MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING THE SUBSTITUTED FOR DARRICADES OF DROMS AT HALF THE SPACING DURING TRATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM OF 5' (1.5 m).

BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY IONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.

TORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT RRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER OURTEEN DAYS.

PLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

JDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

PER 725 IS REQUIRED.

RUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE RICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.

C CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR

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



FOR TRAFFIC ST DEPARTMENT OF TRANSPORTATION REVISED -T. RAMMACHER 03-02-98 - 09-18-94 REVISED - E. GOMEZ 08-28-00 SCALE: NONE SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 10/18/2013

DATE

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

ERS AND SYMBOLS Taging		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		339	116-RS-5	COOK	54	53	
		_	TC-16	CONTRACT NO. 60W05			
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. 4	ID PROJECT		



SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

PLOT DATE = 10/18/2013

DATE

REVISED - C. JUCIUS 01-31-07

OAD N SIGN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		339	116-RS-5	COOK	54	54		
			TC-22	CONTRACT NO. 60W05				
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					