1-18-13 LETTING ITEM 006

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE CITY OF CALUMET

TRAFFIC DATA

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2010 ADT: 12,300 (BURNHAM AVE) 19,200 (RIVER OAKS DRIVE)

POSTED SPEED LIMIT: 35 MPH (BURNHAM AVE) 40-35 MPH (RIVER OAKS DRIVE) STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

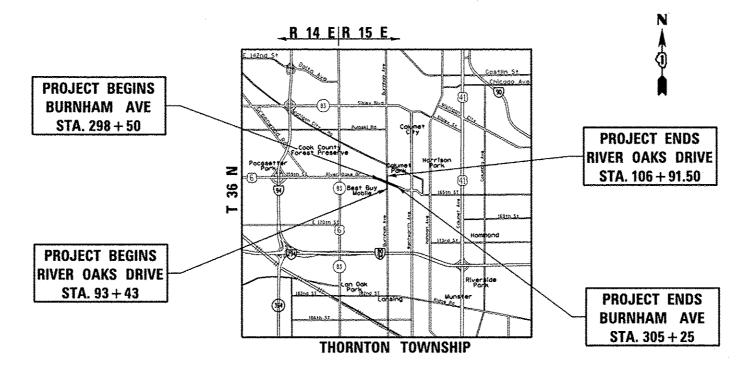
F.A.U. ROUTE 2943: BURNHAM AVE AT RIVER OAKS DRIVE SECTION: 3162A–N–1

TRAFFIC SIGNAL MODERNIZATION; CHANNELIZATION

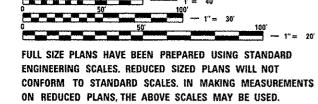
PROJECT: ACHSIP-2943(018)

COOK COUNTY

C-91-364-12



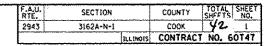
GROSS LENGTH OF PROJECT (BURNHAM AVE AND RIVER OAKS DRIVE) = 1773.50 FT. = 0.336 Mile Net length of project (Burnham ave and River Oaks Drive) = 1773.50 FT. = 0.336 Mile



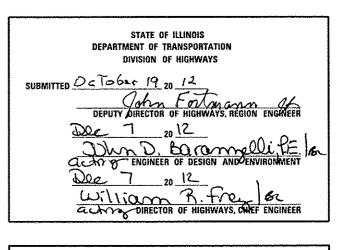
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1–800–892–0123 OR 811

PROJECT ENGINEER: ROBERT BORO (847) 705–4237 PROJECT MANAGER: ISSAM RAYYAN (847) 705–4178

CONTRACT NO. 60T47







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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i.	COVER SHEET			
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			001001-02	ARE
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42	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)		877001-05	STE
			878001-09	CON SPA
			880001-01 880006-01	TRA
			00000	111,4

FILE NAME : USER NAME : handoriah DESIGNED - REVISED - REVISED - BURNHAM AVE AT RIVER DA ci/pr.work/peidot/handoriah/d0286304/PII/212-sht-tapical.dgn DRAWN - REVISED - DATE - REVISED - BURNHAM AVE AT RIVER DA PLOT SCALE + 100.0000 // in. CHECKED - REVISED - BURNHAM AVE AT RIVER DA PLOT DATE + 10/23/2012 DATE - REVISED - STATE OF ILLINOIS PLOT DATE + 10/23/2012 DATE - REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SCALE - SHEETS AND LIST OF STATE SCALE SHEET NO. 1 OF 2 SHEETS STA.	ci\px_work\pxidot\hemdaneh\d0286384\PI}71 F					
Citybuildet/bendeneb/dd28d534/VPI/212-sht-typicel.dgn DRAW - REVISED - STATE UP ILLINUIS PLOT SCALE + 188.08880 */ Jrs. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION INDEX OF SHEETS AND LIST OF STATE	FILE NAME 2	USER NAME + hamdonah	DESIGNED -	REVISED		
DEFARIMENT OF TRANSFORTATION	ci\p=_work\p=idot\homdanoh\d0206304\Piii	712-sht-typical.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	
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		PLOT DATE + 10/23/2012	DATE -	REVISED -		SCALE: SHEET NO. 1 OF 2 SHEETS STA.

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LIST OF STATE STANDARDS

DESCRIPTION

886001-01

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT TEMPORARY EROSION CONTROL SYSTEMS PERPENDICULAR CURB RAMPS FOR SIDEWALKS CLASS C AND D PATCHES FRAME AND LIDS TYPE 1 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH JRBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE JRBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN RBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE MOUNTABLE MEDIAN MULTILANE, 2W WITH URBAN LANE CLOSURE JRBAN LANE CLOSURE, MULTILANE INTERSECTION LANE CLOSURE MULTILANE, IW OR 2W CROSSWALK OF SIDEWALK CLOSURE TRAFFIC CONTROL DEVICES SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS TYPICAL PAVEMENT MARKINGS HANDHOLES DOUBLE HANDHOLES STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES ININTERRUPTABLE POWER SUPPLY (UPS) TRAFFIC SIGNAL GROUNDING & BONDING PEDESTRIAN PUSH BUTTON POST STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' CONCRETE FOUNDATION DETAILS SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION TRAFFIC SIGNAL MOUNTING DETAILS DETECTOR LOOP INSTALLATIONS

XTE STANDARDS PLAN 2943 3162A-N-1 COOK 42 2 IA, TO STA. IFLINDIS[FED, AID PROJECT 60747	OAKS DRIVE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 60147	TE STANDARDS PLAN	2943	3162A-N-1	+	Lauria	2
			ILLINOIS FED. A		NO. 6	OT47

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.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF CALUMET

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

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,

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

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER 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 ENGINEER SHALL CONTACT PATRICE HARRIS. AREA TRAFFIC FIELD ENGINEER (or TECHNICIAN), AT (847) 715-8422 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

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

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 THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMIL 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.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT 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.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT STANDARDS AS NOTED IN THE DETAIL.

THE RESIDENT ENGINEER SHALL VERIFY THE LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING, RESURFACING OR OVERLAYING.

TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE, FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.

ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.

THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REOUIRED)

IF THIS CONTRACT REQUIRES THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS/HER OWN EXPENSE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES PRIOR TO PERFORMING ANY WORK. IF THIS CONTRACT DOES NOT REQUIRE THE SERVICES OF AN ELECTRICAL CONTRACTOR, THE CONTRACTOR MAY REQUEST ONE FREE LOCATE FOR EXISTING IDOT ELECTRICAL FACILITIES FROM THE DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR PRIOR TO THE START OF ANY WORK. ADDITIONAL REQUESTS MAY BE AT THE EXPENSE OF THE CONTRACTOR. THE LOCATION OF UNDERGROUND TRAFFIC FACILITIES DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO REPAIR ANY FACILITIES DAMAGED DURING CONSTRUCTION AT THEIR EXPENSE.

THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS.

RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, MANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS. MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED 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.

TEMPORARY TRAFFIC SIGNAL NOTES

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

- DIRECTED BY THE ENGINEER.
- DAY OF THE TURN ON.
- SIGNAL MANAGEMENT SYSTEM.
- RESPONSIBLE FOR THE CAMERAS.

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cs\pw_work\pwidat\homdoneh\d0286304\P11	712-sht-typical.dgn PLOT SCALE + 100.0000 1/ in.	DRAWN - CHECKED -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		L AND TEN			
	PLOT DATE + 10/22/2012	DATE -	REVISED -		SCALE	SHEET NO. 1	OF 2	SHEETS	STA.

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 IDOT 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 12 INCHES (300 MM). TRAFFIC SIGNAL SECTIONS SHALL BE LED WITH EXPANDABLE VIEW, UNLESS OTHERWISE APPROVED BY THE ENGINEER. PEDESTRIAN SIGNAL HEADS SHALL BE LIGHT EMITTING DIODE (LED) PEDESTRIAN COUNTDOWN SIGNAL HEADS EXCEPT WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD GRADE CROSSING, WHEN A TEMPORARY TRAFFIC SIGNAL IS INSTALLED AT AN INTERSECTION INTERCONNECTED WITH A RAILROAD CRADE CROSSING, LIGHT EMITTING DIODE (LED) PEDESTRIAN SIGNAL HEADS SHALL BE FURNISHED. THE TEMPORARY TRAFFIC SIGNAL HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH EXTRA CABLE LENGTH 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 CONTROLLER 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

5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT AT NO ADDITIONAL COST TO THE CONTRACT.

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

7. ALL TEMPORARY TRAFFIC SIGNAL INSTALLATIONS SHALL HAVE UNINTERRUPTABLE POWER SUPPLY (UPS). THE UPS CABINET SHALL BE MOUNTED TO THE TEMPORARY TRAFFIC SIGNAL CABINET AND MEET THE REQUIREMENTS OF UNINTERRUPTABLE POWER SUPPLY IN DIVISIONS 800 AND 1000 OF THESE SPECIFICATIONS.

8. 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 ACENCY RESPONSIBLE FOR THE TRAFFIC

9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS, PEDESTRIAN PUSH BUTTONS SHALL BE PROVIDED FOR ALL PEDESTRIAN SIGNAL HEADS/PHASES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. 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. DETECTION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN TEMPORARY TRAFFIC SIGNAL INSTALLATION PAY ITEM.

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

DAKS DRIVE	F.A.U. RTE,	SECTION	COUNTY	TOTAL	SHEET NO.
SIGNAL NOTES PLAN	2943	3162A-N-1	COOK	42	3
SIGNAL NOTES I LAN			CONTRACT	NO. 6	0147
A. TO STA.		HLLINOIS FED. A	D PROJECT		

	SUMMARY OF QUANTITIES				TRAFFIC		ION TYPE			· .	SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 902 FEDERAL 102 STATE 0004	90% FEDERAL	INTER- CONNECT 1002 STATE 0021	EVP			CODE NO		ITEM	UNIT
21101615	TOPSOIL FURNISH AND PLACE. 4"	SO YD	3, 8	3, 8						44002216	HOT-MIX ASPI	HALT REMOVAL OVER PATCHES. 4"	SO YD
				. 									
25200110	SODDING, SALT TOLERANT	SO YD	3.8	3.8						44003510	MEDIAN REMO	VAL PARTIAL DEPTH	SO FT
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1	11						44201741	CLASS D PAT	CHES, TYPE II, 8 INCH	SO YD
40600300	AGGREGATE (PRIME COAT)	TÓN	26	26						44201745	CLASS D PAT	CHES. TYPE 111. 8 INCH	SO YD
40600400	MIXTURE FOR CRACKS. JOINTS, AND FLANGEWAYS	TON	20	20						44201747	CLASS D PAT	CHES. TYPE IV. 8 INCH	SO YD
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	547	547		·				60250500		S TO BE ADJUSTED WITH NEW CLOSED LID	EACH
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						60605000	COMBINATION TYPE B-6. 24	CONCRETE CURB AND GUTTER,	FOOT
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	969	969	-					67000400	ENGINEER'S F	FIELD OFFICE, TYPE A	CAL MO
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	35	35						67100100	MOBILIZATIO	4	LSUM
								· · · ·				-	
40603340	HOT-MIX ASPHALT SURFACE COURSE. MIX "D", NTO	TON	1276	1276						70102622	TRAFFIC CONT STANDARD 701	ROL AND PROTECTION. 502	L SUM
42001 300	PROTECTIVE COAT	SO YD	206	206						70102625	TRAFFIC CONT STANDARD 701	ROL AND PROTECTION, 606	L SUM
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1 300	1 300						70102630	TRAFFIC CONT STANDARD 701	ROL AND PROTECTION, 601	L SUM
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	13014	13014						70102632	TRAFFIC CONT STANDARD 701	ROL AND PROTECTION, 602	L SUM
44000500			÷94	104						70102635	TRAFFIC CON	TROL AND PROTECTION.	L SUM
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	184	184							STANDARD 701	701	
44000500	SIDEWALK REMOVAL	SO FT	1 300	1 300									
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ER	OAKS DR		F.A.U. RTE.			COUNTY	TOTAL SHEET SHEETS NO.
	TIES		2943		A-N-1	COOK	42 4 T NO. 60T47

	SUMMARY OF QUANTITIES		1				ION TYPE	CODE	1			SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL	URBAN 902 FEDERAL		TRAFFIC INTER- CONNECT	TRAFFIC EVP				CODE NO		ITEM	UNIT
				IOE STATE	SX CITY OF CALUMENT 0021	1002 STATE 0021	1001 CITY OF CALUMENT 0021						·····	
	TRAFFIC CONTROL AND PROTECTION,				-									
70102640	STANDARD. 701801	LSUN		1						*	80500010	SERVICE INS	TALLATION - GROUND MOUNTED	EAC
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2909	2909						*	81028200	UNDERGROUND 2" DIA.	CONDUIT. GALVANIZED STEEL.	F00
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SO FT	600	600						*	81028210		CONDUIT, GALVANIZED STEEL.	FOOT
	SYMBOLS					, , , , , , , , , , , , , , , , ,					01020210	2 1/2" DIA.		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7647	7647	······				· · · · · · · · · · · · · · · · · · ·	*	81028220	UNDERGROUND 3" DIA.	CONDUIT, GALVANIZED STEEL,	F001
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1038	1038						*	81028240	UNDERGROUND 4" DIA.	CONDUIT, GALVANIZED STEEL.	F001
	-													
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	101	101						*	81400100	HANDHOLE		EAC
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	175	175						*	81400200	HEAVY-DUTY H	IANDHOLE	EACI
72000100	SIGN PANEL - TYPE 1	SO FT	37.5	37.5						*	81400300	DOUBLE HAND	10LE	EACI
78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	602.5	602.5						÷	85000200	MAINTENANCE	OF EXISTING TRAFFIC SIGNAL	EAC
	LETTERS AND SYMBOLS	30,71	092.3	00245						*		INSTALLATION		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7647	7647	·····					*	86400100	TRANSCE I VER	- FIBER OPTIC	EACH
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1038	1038						*	87300925	ELECTRIC CAE	BLE IN CONDUIT, TRACER, NO.	FOOT
												ELECTRIC CAL	BLE IN CONDUIT, SIGNAL NO.	
78000600	THERMOPLASTIC PAVEMENT WARKING - LINE 12"	FOOT	101	101						*	87301215	14 20		F001
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	175	175						*	87301225	ELECTRIC CAE	BLE IN CONDUIT, SIGNAL NO.	F001
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	194	194						*	87301245		BLE IN CONDUIT, SIGNAL NO.	F00
	· · · · · · · · · · · · · · · · · · ·	·			<u>_</u>							14 50		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	184	184						*	87301255	ELECTRIC CAE	BLE IN CONDUIT, SIGNAL NO.	F001
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ILE NAME >		SIGNED -		REVISED				s	TATE OF	ILI	LINOIS		BURNHAM AV	
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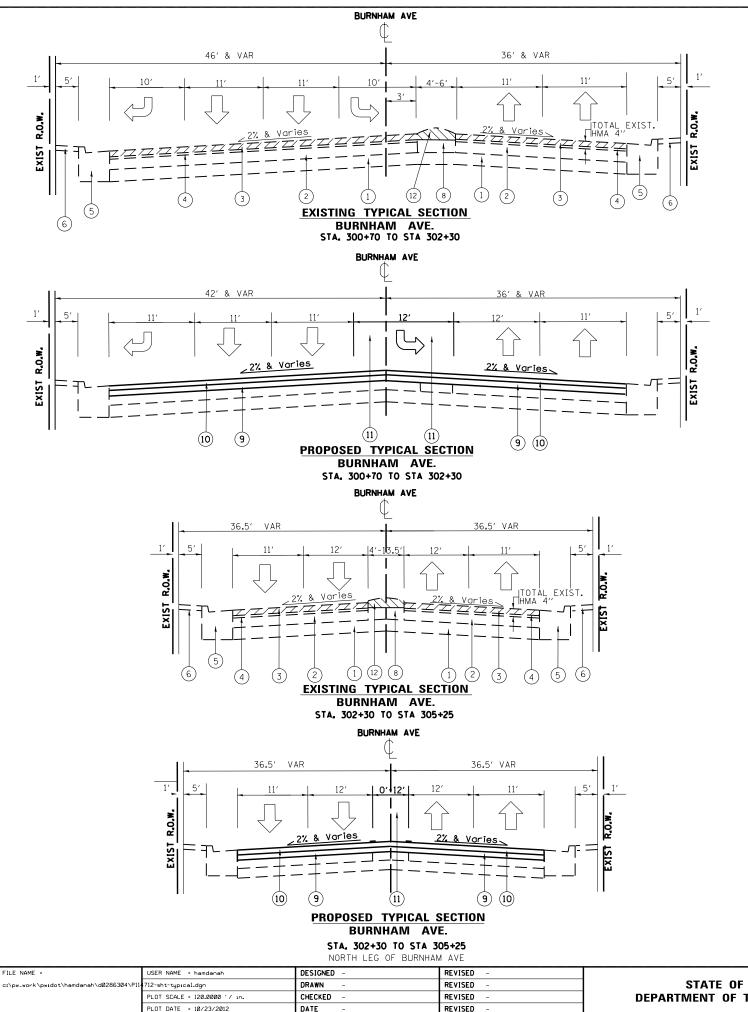
			1	CONSTRUCT	ION TYPE	CODF	
		URBAN	TRAFFIC	TRAFFIC	TRAFFIC		1
	TOTAL OUANTITIES	90% FEDERAL	52 STATE	INTER- CONNECT	EVP]	
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				*	SPECIALTY	ITEMS	
	0 AVC DD		F.A.U RTE.	1			TOTAL SHEET SHEETS NO.
	OAKS DR		2943		A-N-1	COOK	42 5

Γ	*****	SUMMARY OF QUANTITIES			 	C		ION TYPE	CODE		T	·	SUMMAR	RY OF QUANTITIES		Т
c	ODE NO	ITEM	UNIT	TOTAL OUANTITIES	URBAN 902 FEDERAL 102 STATE 0004	90% FEDERAL		EVP 1001 CITY OF CALIMENT 0021			<u></u>	CODE NO		ITEM	UNIT	
* 8	7301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3566		3566					*	88030220	SIGNAL HEAD. BRACKET MOUN	LED. 2-FACE. 5-SECTION. TED	EACH	
* 8	7301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	190		190					**	88030240		LED. 2-FACE. 1-3 SECTION. BRACKET MOUNTED	EACH	
* 8	7301900	ELECTRIC GABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 IC	FOOT	802		802					*	88102717		IGNAL HEAD. LED. 1-FACE. TED WITH COUNTDOWN TIMER	EACH	
* 8	7502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1					*	88200210	TRAFFIC SIGN	AL BACKPLATE, LOUVERED.	EACH	
* 8	7502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	4		4					*	88500100	INDUCTIVE LO	OP DETECTOR	EACH	+
		16 FT.			· · · · · · · · · · · · · · · · · · ·											+
* 8	7700210	STEEL MAST ARM ASSEMBLY AND POLE. 34 FT.	EACH	1		1					*	88600100	DETECTOR LOOP	P. TYPE I	FOOT	+
* 8	7700220	STEEL MAST ARM ASSEMBLY AND POLE. 36 FT.	EACH	1	· · ·	1		*			*	88700200	LIGHT DETECTO	DR	ЕАСН	
			·····	ũ.												
* 8	7700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		• 1					*	88700300	LIGHT DETECT	DR AMPLIFIER	EACH	
* 8	7700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1					*	88800100	PEDESTRIAN PL	JSH-BUTTON	EACH	
* 8	7800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20					*	89000100	TEMPORARY TR	AFFIC SIGNAL INSTALLATION	EACH	-
* 8	7800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4					*	89502200	NODIFY EXIST	ING CONTROLLER	EACH	+
* 87	7800415	CONCRETE FOUNDATION. TYPE E 36-INCH DIAMETER	FOOT	48		48					*	89502300	REMOVE ELECTI	RIC CABLE FROM CONDULT	FOOT	+-
* 87	7900200	DRILL EXISTING HANDHOLE	EACH	l	· · · · · ·		a				*	89502375	REMOVE EXIST	ING TRAFFIC SIGNAL EQUIPMENT	EACH	
* 88	3030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7		7					*	89502380	REMOVE EXIST	ING HANDHOLE	EACH	
* 88	3030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5		5					*	89502382	REMOVE EXIST	ING DOUBLE HANDHOLE	EACH	
~												6				
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			C TRAFFIC	ONSTRUCT TRAFFIC	ION TYPE	CODE	1	
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			E A II	·····	SPECIALTY		TOTAL	SHEET
	OAKS DR		F.A.U. RTE. 2943	SEC1	rion A-N-1	COUNTY COOK	TOTAL SHEETS 42	NO,
QUANTI						CONTRACT		
TS STA.	TC	STA.	FED. R	DAD DIST. NO. 1	ILLINOIS FED. AN	PROJECT	····	

· · · ·	SUMMARY OF QUANTITIES			<u> </u>		TRAFFIC		T	Т		SUMM/	RY OF QUANTITIES					TRAFFIC	ION TYPE	TODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	I and manager	902 FEDERAL 52 STATE 52 CITY OF CALUMENT 0021	INTER- CONNECT	EVP			CODE NO		ITEM	UNIT	TOTAL QUANTITIES	URBAN 902 FEDERAL 102 STATE 0004	902 FEDERAL 54 STATE 52 CITY OF CALUMENT	INTER- CONNECT 1002 STATE 0021		
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9														
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	315				315												
×5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	71	71															
	****										· .	· · · · · · · · · · · · · · · · · · ·			· · ·	· · · · · · · · · · · · · · · · · · ·			
×6025600	MANHOLES TO BE ADJUSTED (SPECIAL)	EACH	1	1		 													
x8570231	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1						· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·					
X8600105	MASTER CONTROLLER (SPECIAL)	EACH	1		1						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · · ·				·			
×8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1														
x8710024	FIBER OPTIC CABLE IN CONDUIT, NO.	FOOT	2232	· · · · · · · · · · · · · · · · · · ·	·····	2232								· · · · · · · · · · · · · · · · · · ·					
X8710024	62.5/125, MM12F SM24F					2232					· ·	-							
20018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	32	32							· · · · · · · · · · · · · · · · · · ·				·····				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8															
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	ł			1													
20073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	· ·	1														
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FILE NAME =		DESIGNED -		REVISED								018	RNHAM AVE AT RIVER	OAKS DP		F.A.U. RTE.		SPECIALTY	ITEMS COUNTY
a\pw_work\pwldoPriomdg		DRAWN - CHECKED -		REVISED						ILLINOIS TRANSPORTA	TION	bu	SUMMARY OF QUANT			2943		A-N-1	COOK CONTRA

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MIXTURE TYPE	AIR VOIDS @ NDES
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR
POLYMERIZED LEVELING BINDER, (MACHINE METHOD), IL-4.75, N50	3.5% @ 70 GYR
CLASS D PATCHES, (HMA BINDER IL-19 mm)	4% @ 70 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HOT-MIX ASPHALT BINDER IL-19 mm)	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.

NOTE			
CONT	RACTOR	SHA	LL PATO
AND	RACTOR Shall I	MILL	BEFOR

FILE NAME =	USER NAME = hamdanah	DESIGNED -	REVISED -		BI	JRNHAM	AVE /	AT RIVE	R C
c:\pw_work\pwidot\hamdanah\d0286304\P11	712-sht-typıcal.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS					
	PLOT SCALE = 120.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			TYPIC	CAL SEC	
	PLOT DATE = 10/23/2012	DATE -	REVISED -		SCALE: NOT TO SCALE SHE	ET 1	0F 2	SHEETS	STA

LEGEND

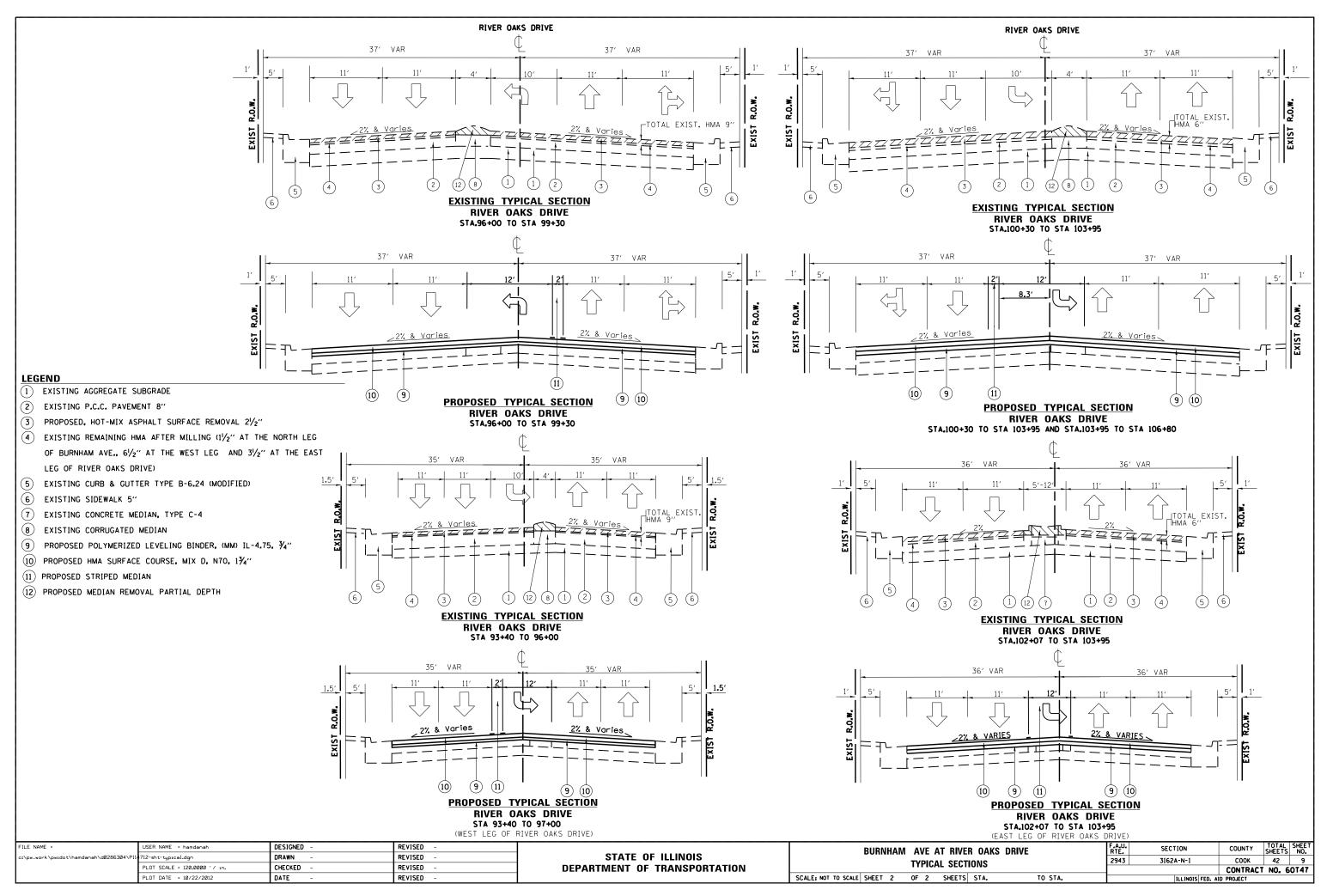
- (1) EXISTING AGGREGATE SUBGRADE
- (2) EXISTING P.C.C. PAVEMENT 8"
- (3) PROPOSED, HOT-MIX ASPHALT SURFACE REMOVAL 21/2"
- (4) EXISTING REMAINING HMA AFTER MILLING $(1/_{2})$ at the north LEG OF BURNHAM AVE., $6^{1\!/}_{2}{}^{\prime\prime}$ at the west Leg and $3^{1\!/}_{2}{}^{\prime\prime}$ at the east LEG OF RIVER OAKS DRIVE)
- (5) EXISTING CURB & GUTTER TYPE B-6.24 (MODIFIED)
- (6) EXISTING SIDEWALK 5"
- (7) EXISTING CONCRETE MEDIAN, TYPE C-4
- (8) EXISTING CORRUGATED MEDIAN
- (9) PROPOSED POLYMERIZED LEVELING BINDER, (MM) IL-4.75, 3/4"
- (10) PROPOSED HMA SURFACE COURSE, MIX D, N70, 13/4"
- (1) PROPOSED STRIPED MEDIAN
- (12) PROPOSED MEDIAN REMOVAL PARTIAL DEPTH

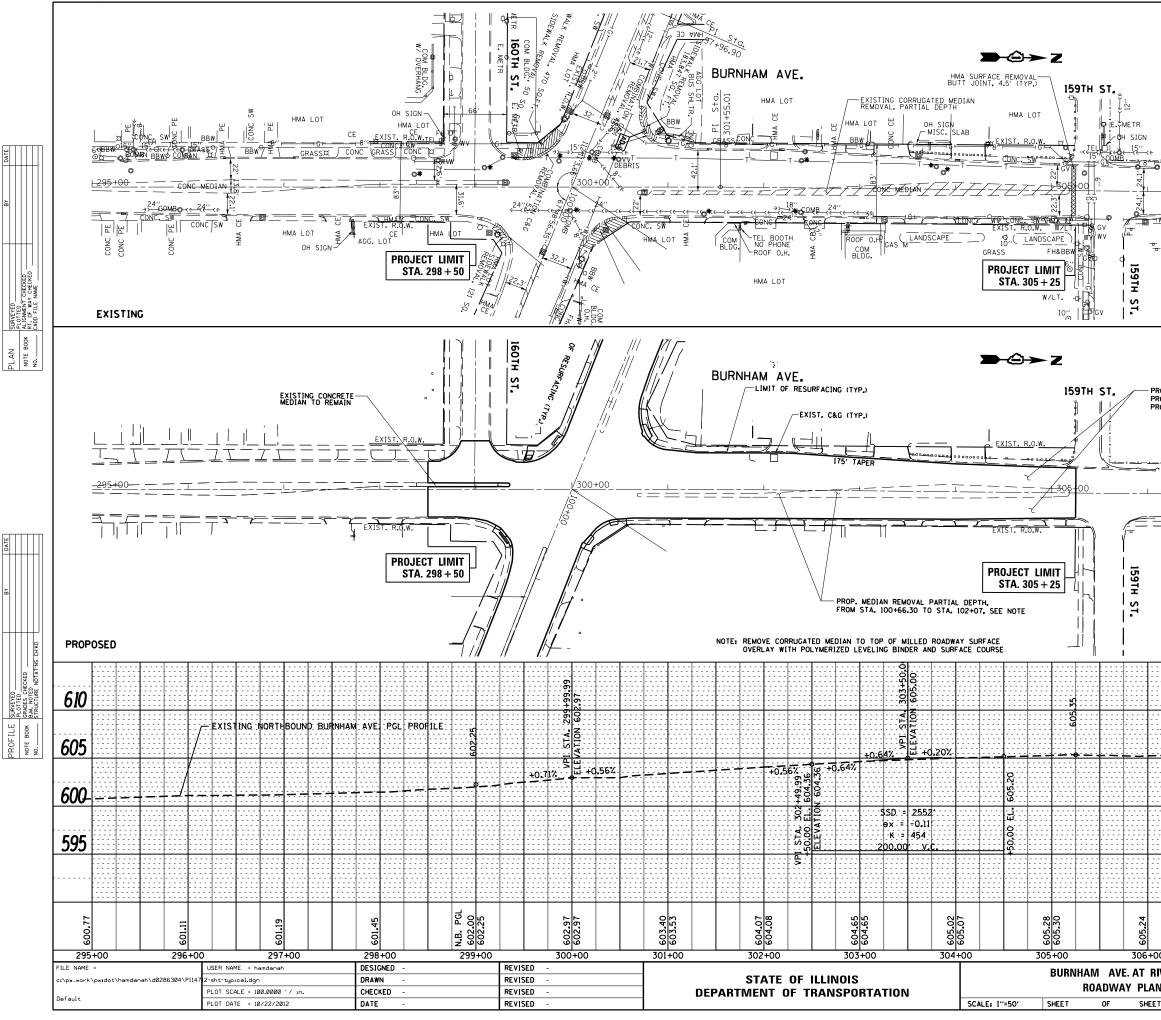
HMA MIXTURE REQUIREMENTS

"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."

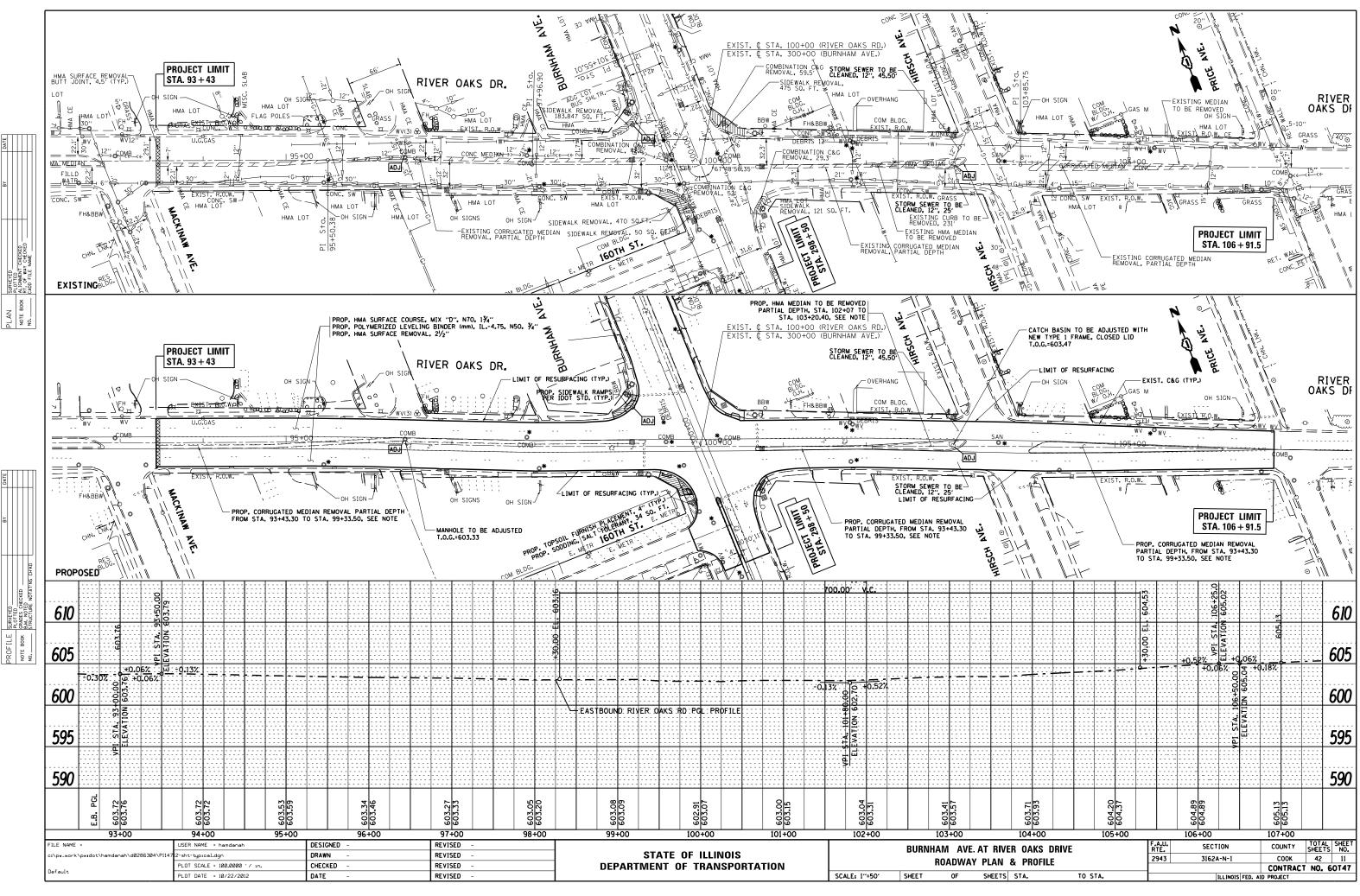
CH FIRST BEFORE MILLING, ON BURNHAM AVE. PATCHING, ON RIVER OAKS DRIVE.

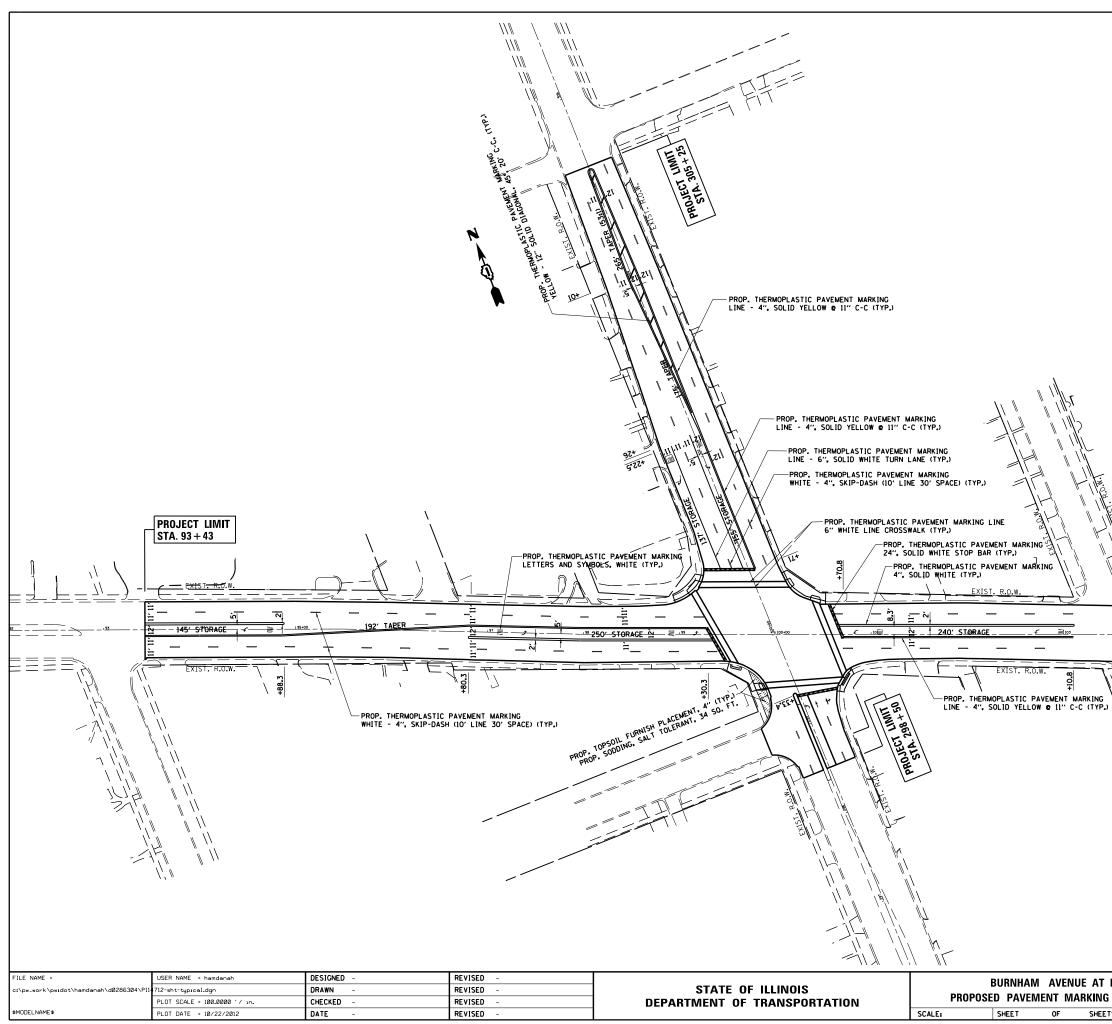
VER OAKS DRIVE	F.A.U. RTÉ.	SECPT-RON47-12	COUNTY	TOTAL SHEETS	SHEET NO.
ECTIONS	2943	3162A-N-1	COOK	42	8
			CONTRACT	NO. 6	0147
S STA. TO STA.		ILLINOIS FED. A	D PROJECT		



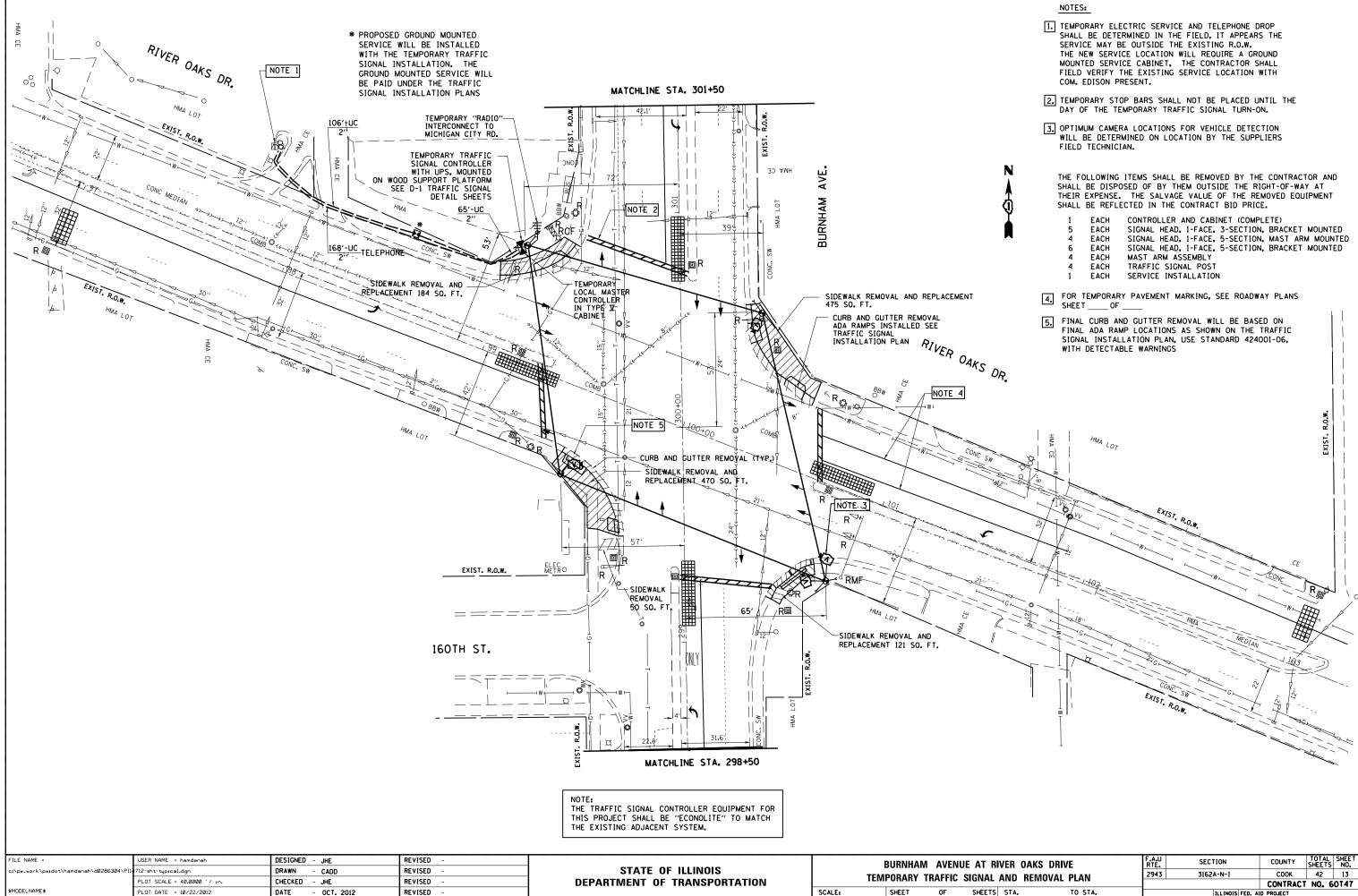


605 600 595 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		DEBRING GRASS DEBRING W/T, W/T, W/T, W/T, W/T, W/T, W/T, W/T,	• MAA. SURFACE COURSE, MIX *D'', NTO, 1%'' • MAA. SURFACE REMOVAL, 2%''	COUNT: ST. CLAIN LINK. P. MAA. SURFACE COURSE. MIX "D", NTO, 1%". Organization COUNTE: ST. Biogram P. MAA. SURFACE COURSE. MIX "D", NTO, 1%". Organization COUNTE: ST. Biogram P. MAA SURFACE COURSE. MIX "D", NTO, 1%". Organization COUNTE: ST. Biogram P. MAA SURFACE COURSE. MIX "D", NTO, 1%". Organization COUNTE: ST. Organization P. MAA SURFACE COURSE. MIX "D", NTO, 1%". Organization COUNTE: ST. Organization Surface Removal, 2%" Surface Removal, 2%" Surface Removal, 5% Organization Surface Surface Surface Removal, 5% Organization	605 600 595							SECT		3+00	308				+00	307-				
605 605 600 595	DEBAIL DEBAIL Description Descrintereaction <thdescription< th=""> <t< th=""><th>• MA SUPPACE COURSE MIX 'D'', NTO, 1%''. • MA SUPPACE COURSE MIX 'D'', NTO, 1%''.</th><th>СОСС. ST 7. </th><th>СОСС. ST 7. </th><th>605 600</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>605.77</th><th></th><th></th><th></th><th></th><th>605.53</th><th></th><th></th><th></th><th></th></t<></thdescription<>	• MA SUPPACE COURSE MIX 'D'', NTO, 1%''.	СОСС. ST 7. 	СОСС. ST 7. 	605 600										605.77					605.53				
<u> </u>	ORASS ORASS <td< th=""><th>HMA SURFACE COURSE, MIX "D", NTO, 1%" HMA SURFACE REMOVAL, 2%"</th><th>CONC. SW 7 CONC. SW 7 CONC.</th><th>CONC. 597 </th><th>605 600</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th> -1-</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th></td<>	HMA SURFACE COURSE, MIX "D", NTO, 1%" HMA SURFACE REMOVAL, 2%"	CONC. SW 7 CONC.	CONC. 597 	605 600								 -1-											-
<u> </u>	ORASS ORASS <td< td=""><td>MA SURFACE COURSE, MIX "D", NTO, 1%" POLYMERIZED LEVELING BINDER (mm), IL-4.75, NSO, %"</td><td>CONC. SW 7 CRASS CRAS</td><td>CONC. SW 7 CRASS CRAS</td><td>605 600</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	MA SURFACE COURSE, MIX "D", NTO, 1%" POLYMERIZED LEVELING BINDER (mm), IL-4.75, NSO, %"	CONC. SW 7 CRASS CRAS	CONC. SW 7 CRASS CRAS	605 600																			
<u></u> 605	• MAA SURFACE COURSE, MIX "D", NTO, 1½". • POLYMETIZED LEVELING BUDGE (mm), IL4,75, N50, ½" • MAA SURFACE REMOVAL, 2½"	Image: Superational and the second	CONC. SW7 CONS. SW7 CONS. SW7 CRASS CRAS	CONC. SW7 CONC. SW7 CONS. SW CONS. SW CONS	605				····															
	DEBRIS SAN-15" OT CRASS 0 2 4 9	DEBRIS DEBRIS OCONCL: SW DEBRIS W/LT. W/LT.	CONC. SW 7 CRASS COURSE. MIX "D", NTO, 1½" PDU YMERIZED LEVELING BINDER (mm), 1L4,75, N50, ½" HMA SURFACE COURSE. MIX "D", NTO, 1½" HMA SURFACE REMOVAL, 2½" HMA SURFACE NEMOVAL, 2½" HMA SURFAC	CONC. SW 7 CRASS COURSE. MIX "D", NTO, 1½" PDU YMERIZED LEVELING BINDER (mm), 1L4,75, N50, ½" HMA SURFACE COURSE. MIX "D", NTO, 1½" HMA SURFACE REMOVAL, 2½" HMA SURFACE NEMOVAL, 2½" HMA SURFAC																				
	DEBRIS State To GRASS 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Image: State of the s	CONC. SW 7 CRASS CRAS	CONC. SW 7 CRASS CRAS		1							 				-							
610	DEBRIS Image: San 15" GRASS Image: San 15" W/LT. Image: San 15" Image: San 15"	HMA SURFACE COURSE, MIX "D", NTO, 1%" HMA SURFACE REMOVAL, 2%"	CONC. SW	CONC. SW																				
	DEBRIS W/LT. GRASS Office W/LT. Office W/LT. Office GRASS Office W/LT. Office <td>Image: State of the state</td> <td>CONC. SW 7 CHAIN LINK CHAIN LINK CHAIN</td> <td>CONC. SW 7 CHAIN LINK CHAIN LINK CHAIN</td> <td>610</td> <td></td>	Image: State of the state	CONC. SW 7 CHAIN LINK CHAIN	CONC. SW 7 CHAIN LINK CHAIN	610																			
* FRAME AND LID TO BE ADJUSTED (SPECIAL)					CIAL)	ed (Spe	ADJUST) BE 4	ID TO		E AND	FRAME	N50	.75,	1∛4" IL4,	N70, 1)", N R (mi	41x ''D BINDEI 2 ¹ /2''	RSE, M ELING OVAL,	COUL	FACE IZED FACE	SURF/	HMA POL YI HMA	-
<u>309+90.82</u> [Sta					CIAL)	309+90.82	ADJUS T) BE 4	ID TO	' L IC	E AND	FRAME	N50	.75.	1¥4'' 1L4,	Sta		AIX "D BINDEI 2 ¹ /2"	RSE, M CLING OVAL,	COUL			HMA POLYI HMA	



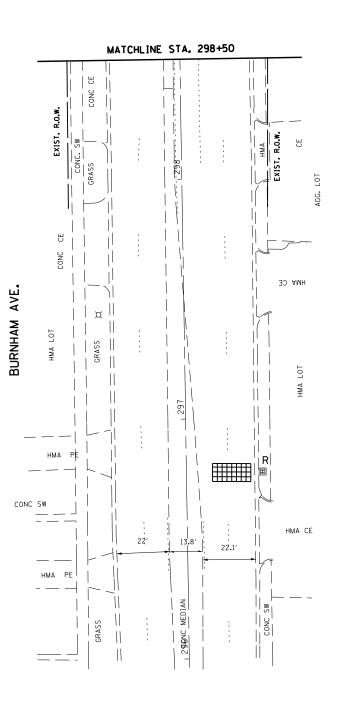


RIVER OAKS DRIVE	PROP. 11 MARKING, 45°. 20° 35' R 2' R 	270	STIC PAVEMENT - 12" SOLID DIAGONAL: P.) EXIST R.O.W. TAPER (454) PROJECT LIN STA. 106 + 9	AIT 1.5		
		F.A.U.	SECTION	COUNTY	TOTAL	SHEET
COOK 42 12				СООК	42	12
CONTRACT NO. 60147				CONTRACT		
TS STA. TO STA. ILLINOIS FED. AID PROJECT	IS SIA. IU SIA.		ILLINOIS FED. A	DPROJECT		



RIVER OAKS	DRIVE	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
L AND REMO	VAL PLAN	2943	3162A-N-1	COOK	42	13
				CONTRACT	NO. 6	0147
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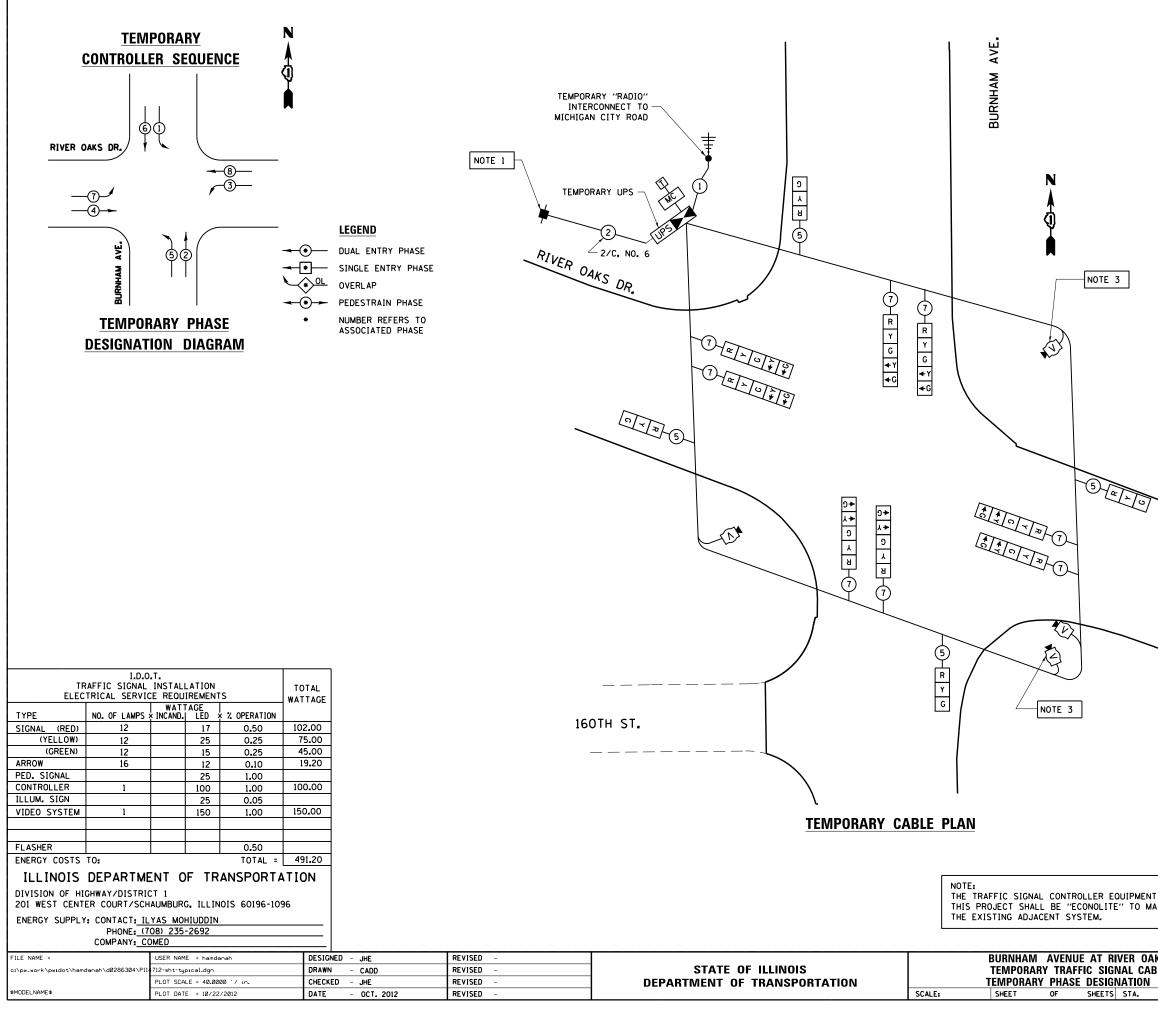
	MATCHLINE STA. 30	LO T WH	NOTE: THE TRAFFIC SIGNAL CONTROLLER EQU THIS PROJECT SHALL BE "ECONOLITE" THE EXISTING ADJACENT SYSTEM.
		HMA CE	



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

FILE NAME =	USER NAME = hamdanah	DESIGNED - JHE	REVISED -			DIIDNIUAN			VER OAKS		F.A.U	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\hamdanah\d0286304\P11	712-sht-typical.dgn	DRAWN - CADD	REVISED -	STATE OF ILLINOIS		TEMPORARY					2943	3162A-N-1	соок	42 14
	PLOT SCALE = 40.0000 '/ in.	CHECKED - JHE	REVISED -	DEPARTMENT OF TRANSPORTATION		TEIVIPUNANT	INAFFIC	SIGNAL	AND REIVIO	VAL FLAN			CONTRAC	CT NO. 60T47
\$MODELNAME\$	PLOT DATE = 10/22/2012	DATE - OCT. 2012	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	





EQUIPMENT FOR TE" TO MATCH					
RIVER OAKS DRIVE	F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IGNAL CABLE PLAN	2943	3162A-N-1	СООК	42	15
IGNATION DIAGRAM		1. NO		T NO. 6	0147
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RIVER OAKS DR.

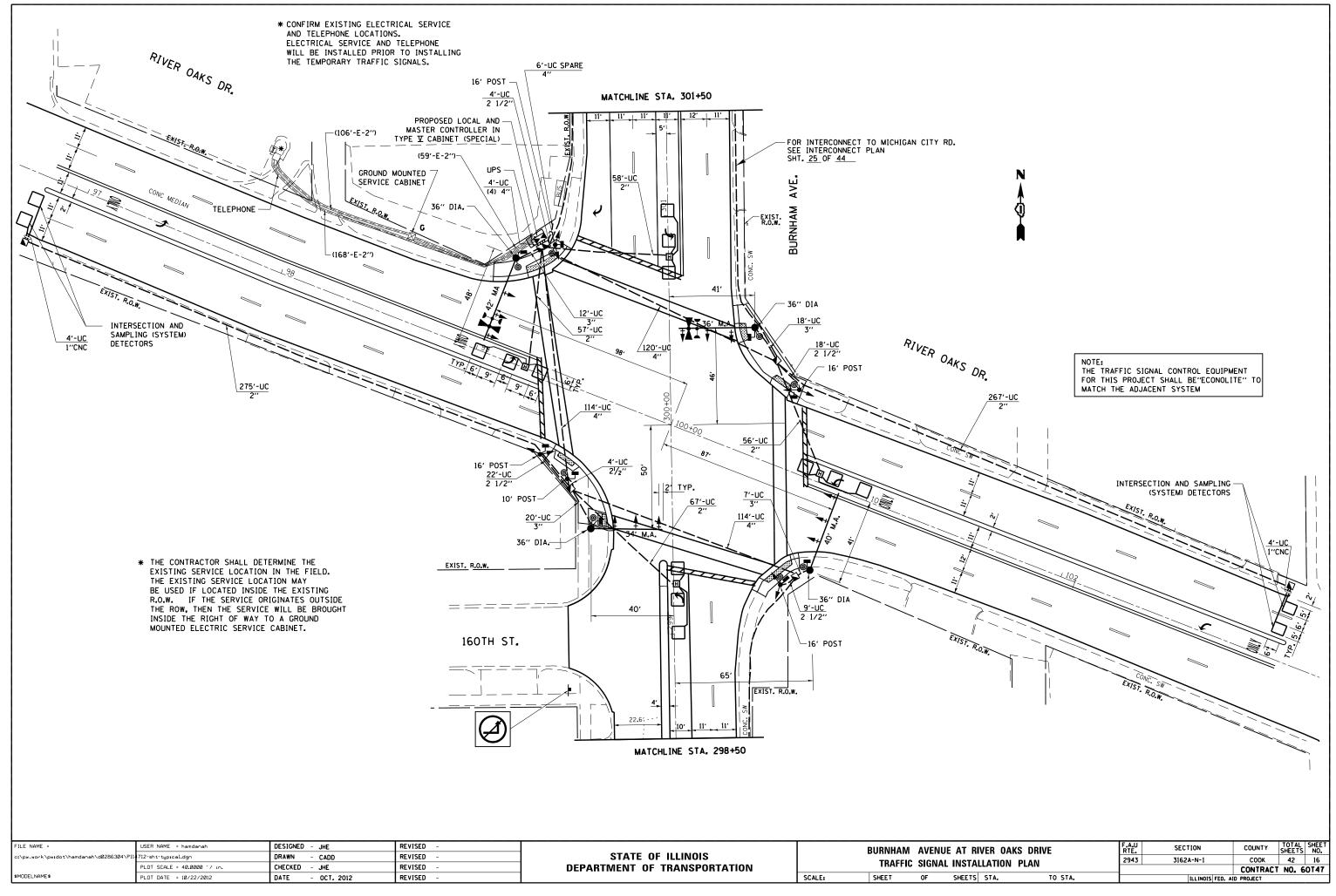
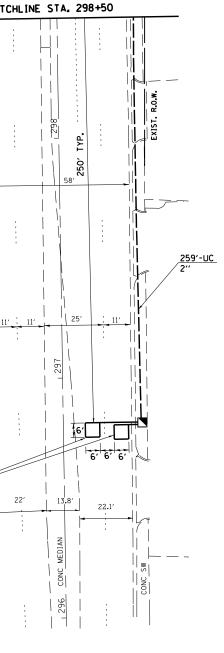
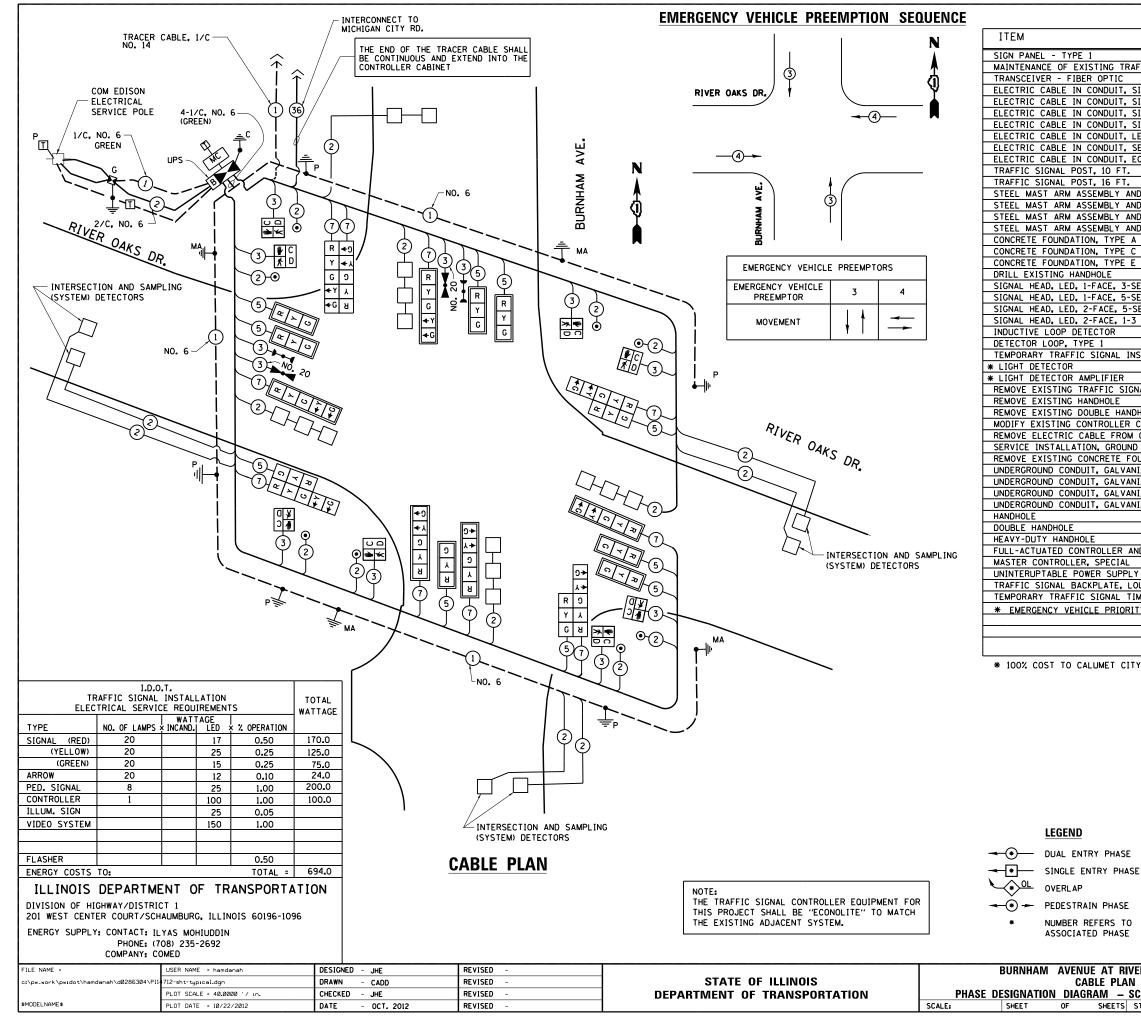


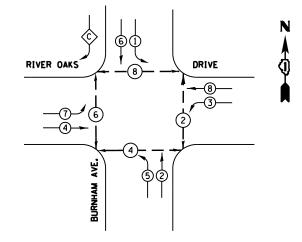
Image: Second
File NAME : USER NAME : homedonoh DESIGNED : JHE REVISED : REVISED : OLONITY TOTAL STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BURNHAM AVENUE AT RIVER OAKS DRIVE REVISED : REVISED : COUNTY TOTAL SHE 1 c1/pu: work/puido/homedonoh/d0286304/Pli) DRAWN - CADD REVISED : REVISED : STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION BURNHAM AVENUE AT RIVER OAKS DRIVE TRAFFIC SIGNAL INSTALLATION PLAN REVISED : COUNTY TOTAL SHE 2





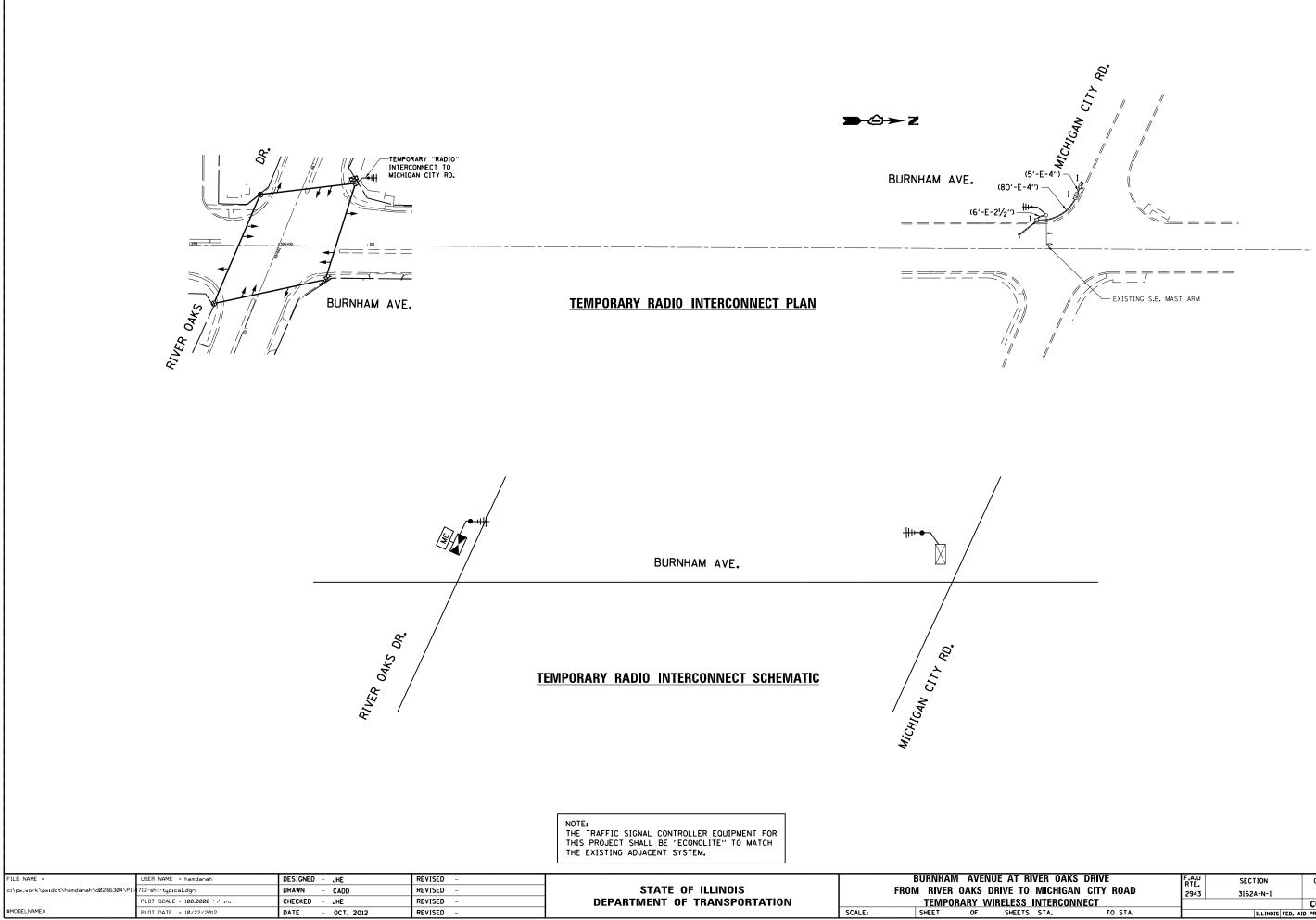
	UNIT	TOTAL
	SQ. FT.	37.5
TRAFFIC SIGNAL INSTALLATION	EACH	1
C	EACH	1
T, SIGNAL NO. 14 2C	FOOT	1340
T, SIGNAL NO. 14 3C	FOOT	1710
T, SIGNAL NO. 14 5C	FOOT	2080
T, SIGNAL NO. 14 7 C	FOOT	1820
T, LEAD-IN NO.14 1 PAIR	FOOT	3566
T, SERVICE, NO. 6 2C	FOOT	190
T, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	802
T	EACH	1
т.	EACH	4
AND POLE, 34 FT.	EACH	1
AND POLE, 36 FT.	EACH	1
AND POLE, 40 FT.	EACH	1
AND POLE, 42 FT.	EACH	1
PE A	FOOT	20
PE C	FOOT	4
PE E 36-INCH DIAMETER	FOOT	48
	EACH	1
3-SECTION, MAST ARM MOUNTED	EACH	7
5-SECTION, MAST ARM MOUNTED	EACH	5
5-SECTION, BRACKET MOUNTED	EACH	1
1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
	EACH	11
	FOOT	680
INSTALLATION	EACH	1
	EACH	2
R	EACH	1
SIGNAL EQUIPMENT	EACH	1
	EACH	7
IANDHOLE	EACH	1
ER CABINET	EACH	1
ROM CONDUIT	FOOT	5140
DUND MOUNTED	EACH	1
FOUNDATION	EACH	9
VANIZED STEEL, 2" DIAMETER	FOOT	1650
VANIZED STEEL, 2-1/2' DIAMETER	FOOT	57
VANIZED STEEL, 3" DIAMETER	FOOT	53
VANIZED STEEL, 5' DIAMETER	F001	370
VANIZED STEEL, 4 DIAMETER		7
	EACH	-
	EACH	1
	EACH	4
R AND TYPE V CABINET, SPECIAL	ECH	1
AL	EACH	1
	EACH	1
. LOUVERED ALUMINUM	EACH	12
TIMING	EACH	1
ORITY SYSTEM LINE SENSOR CABLE NO. 20	FOOT	315

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

RIVER OAKS DRIVE	F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
LAN		3162A-N-1	СООК	42	18	
<u>SCHEDULE_OF_QUANTITIES</u>			CONTRACT	NO. 6	OT47	
TS STA. TO STA.	ILLINOIS FED. AID PROJECT					



SCALE:

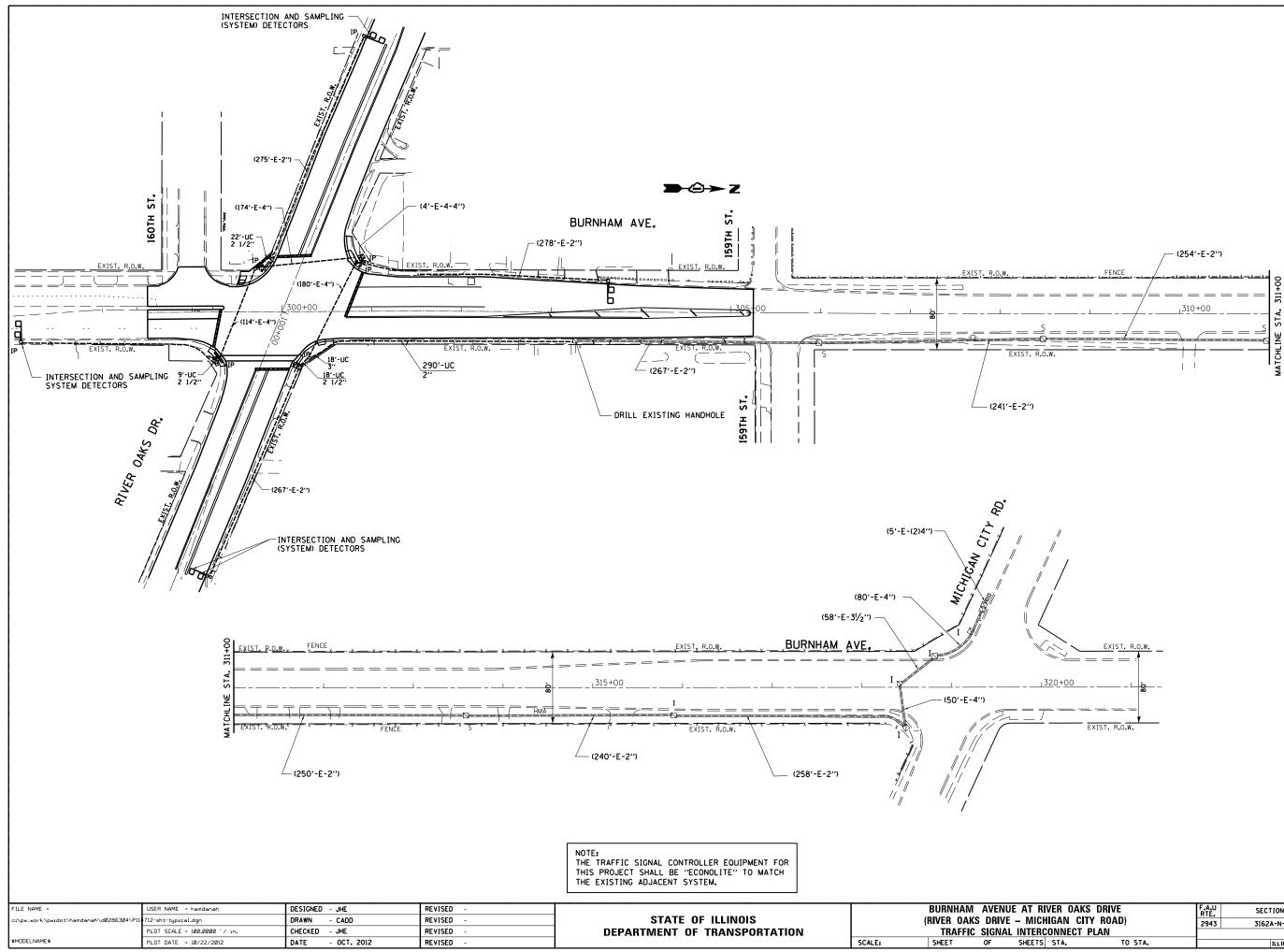
\$MODELNAME\$

PLOT DATE = 10/22/2012

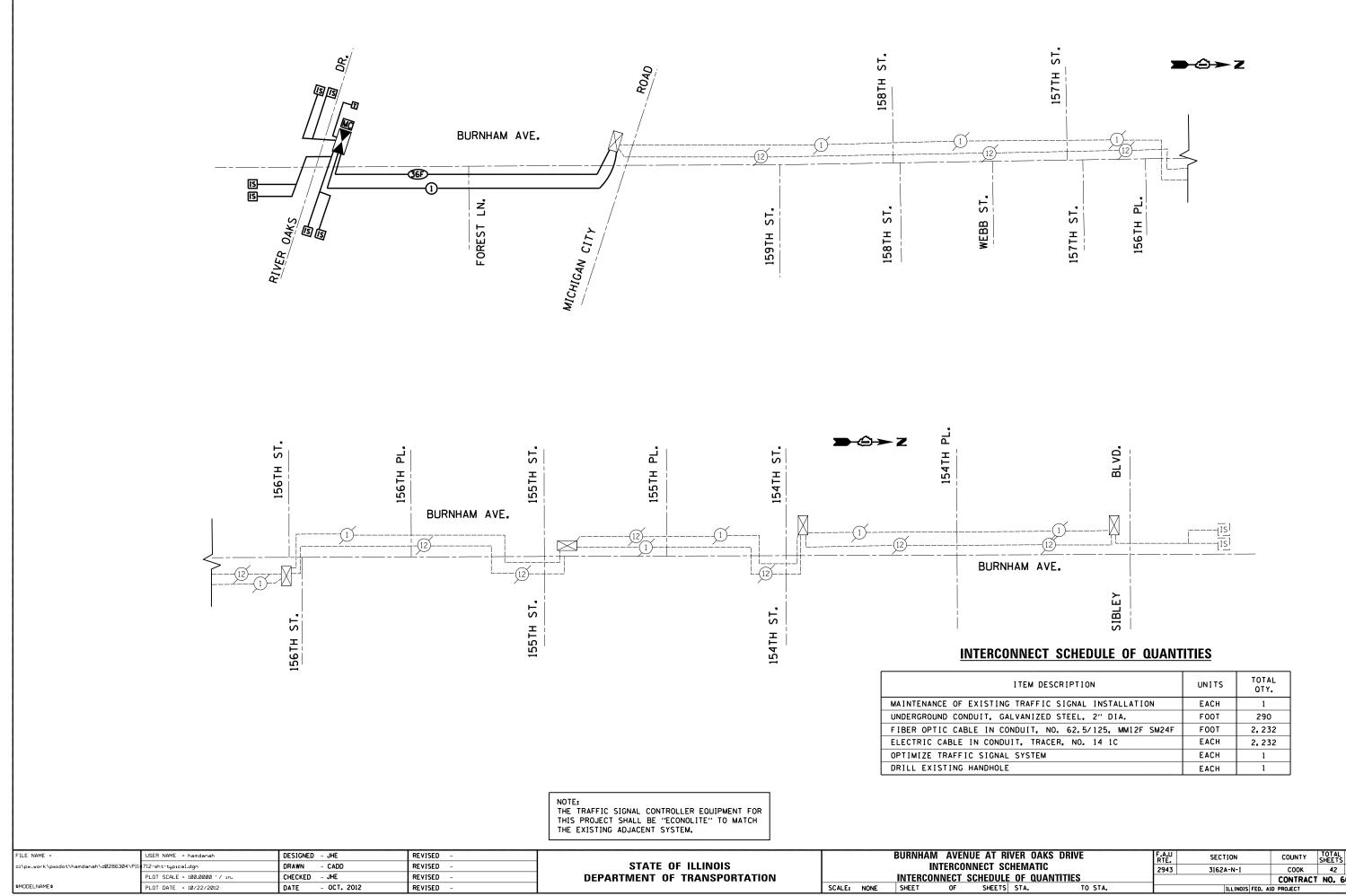
DATE - 0CT. 2012

REVISED

	RIVER OAKS DRIVE		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO,	
O MICHIGAN CITY ROAD S_interconnect		ICHIGAN CITY ROAD 2943 3162A-N-1				42	19	
				CONTRACT	NO. 6	0147		
TS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

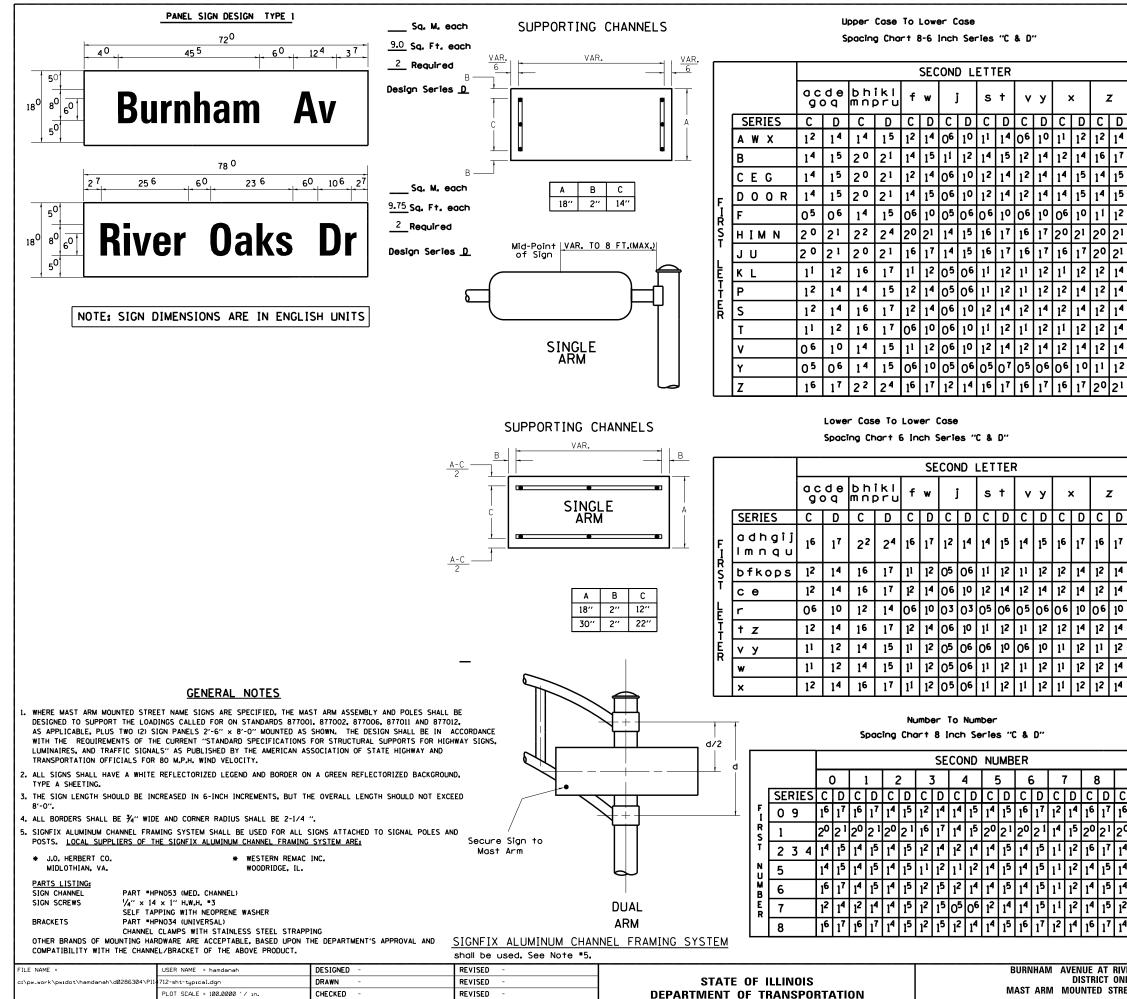


RIVER OAKS DRIVE Chigan City Road) Rconnect Plan		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		3162A-N-1	COOK	42	20
TS STA. TO STA. ILLINOIS FED. AID PROJECT				NU. 6	0147



ITEM DESCRIPTION	UNITS	TOTAL OTY.
NG TRAFFIC SIGNAL INSTALLATION	EACH	1
GALVANIZED STEEL, 2" DIA.	FOOT	290
CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	2,232
DUIT, TRACER, NO. 14 1C	EACH	2,232
AL SYSTEM	EACH	1
LE	EACH	1

RIVER OAKS DRIVE SCHEMATIC		F.A.U RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		2943 3162A-N-1 COOK 42			42	21	
ILE OF QUANTITIES				CONTRACT	NO. 6	0147	
TA, T	O STA.	ILLINOIS FED. AID PROJECT					
	MATIC F QUANTITIES	IMATIC IF QUANTITIES	IMATIC 2943	IMATIC 2943 3162A-N-1	INATIC 2943 3162A-N-1 COOK F QUANTITIES CONTRACT	IN ORIGO DITAL RTÉ. SECTION COUNT SHEETS IMATIC 2943 3162A-N-1 COOK 42 IF QUANTITIES CONTRACT NO. 6	



LOT SCALE = 100.0000 '/ in.

DATE

REVISED

PLOT DATE = 10/22/2012

EXAMPLE, 2^{3} DENOTES $\frac{3^{\prime\prime}}{8}$

L E T E R S		UPPER		H UPPER	L E T	6 INCH LOWER CASE LETTERS					
T E	SEF	SERIES		RIES	T E	SEI	RIES				
R S	С	D	С	D	E T E R S	С	D				
•	36	50	50	65	٥	35	42				
В	32	4 ⁰	4 3	53	Ь	35	42				
С	32	40	4 3	53	с	35	41				
D	32	40	4 ³	53	d	35	4 2				
E	30	35	40	47	е	35	42				
F	30	35	40	47	f	2 3	26				
G	32	4 ⁰	4 3	5 ³	9	35	42				
н	3 ²	40	4 3	53	h	35	42				
I	07	07	11	12	î	11	11				
J	30	36	40	50	J	20	22				
к	32	41	4 3	54	ĸ	35	42				
L	30	35	40	47	1	11	11				
м	37	45	51	61	m	60	70				
N	3 ²	40	43	53	n	35	42				
0	34	42	45	55	0	36	43				
Р	32	4 ⁰	4 3	53	Р	35	42				
0	34	42	45	55	Q	35	42				
R	32	40	4 3	53	r	26	32				
s	32	40	43	53	s	36	42				
т	30	35	40	47	t	27	32				
U	32	40	4 3	53	U	35	42				
v	35	44	47	60	v	4 ²	47				
w	44	5 ²	6 ⁰	70	w	55	64				
x	34	40	45	53	×	44	51				
Y	36	50	50	66	У	46	53				
z	<u>3</u> 2	40	43	53	z	36	43				

UPPER AND LOWER CASE LETTER WIDTHS

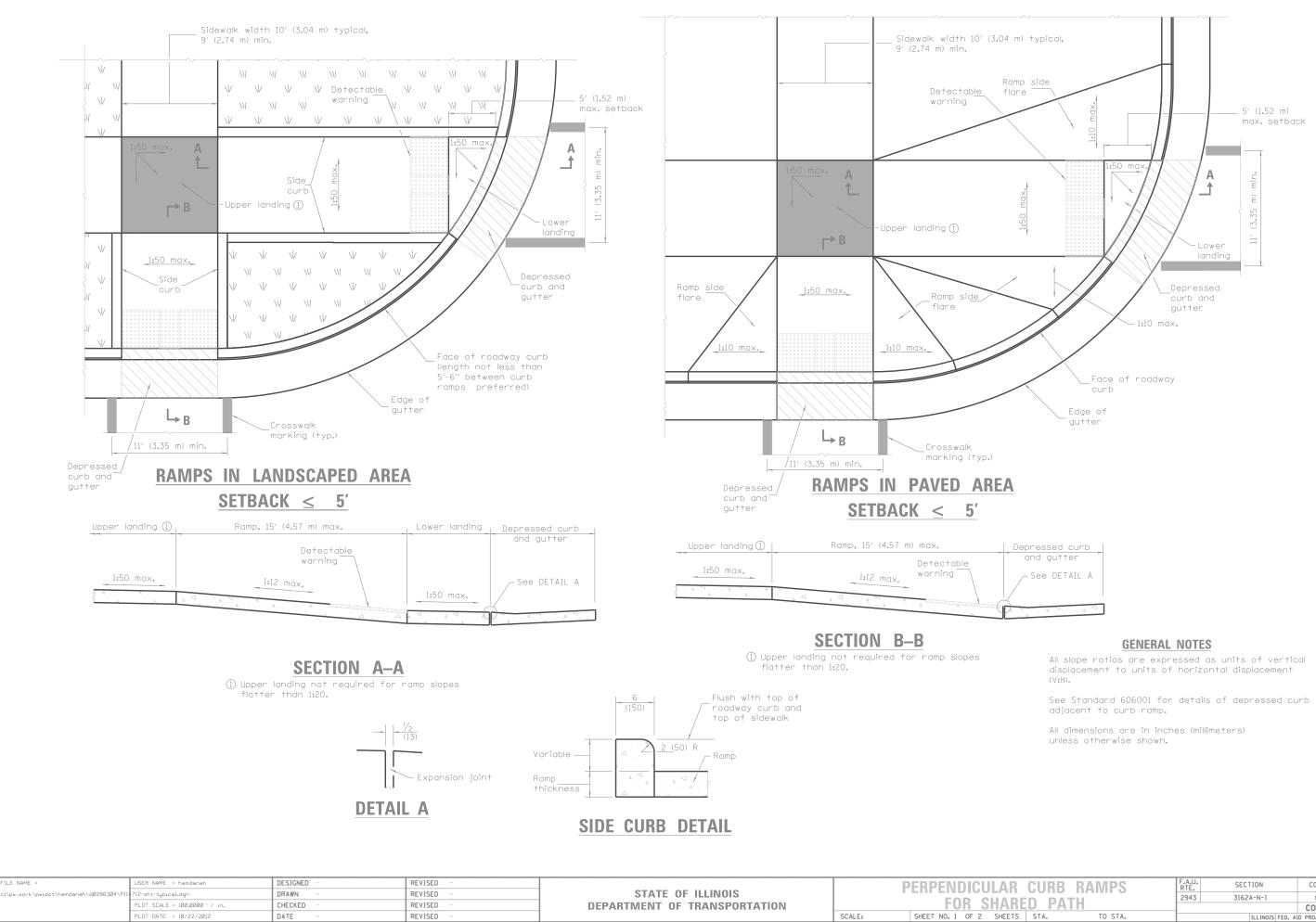
_							
ſ		6 INCH	SERIES	8 INCH	SERIES		
	NU MBER	C D		С	D		
	1	1 ²	14	15	20		
	2	32	40	43	53		
	3	32	40	43	53		
	4	35	4 3	47	57		
	5	32	40	4 3	53		
	6	32	40	4 3	53		
	7	32	40	4 3	53		
	8	32	40	4 3	53		
Γ	9	3 ²	40	4 3	53		
	0	34	42	45	55		

9					
С	D				
16	17				
2 ⁰	2 ¹				
14	1 ⁵				
14	15				
14	1 ⁵				
1 ²	14				
14	1 ⁵				

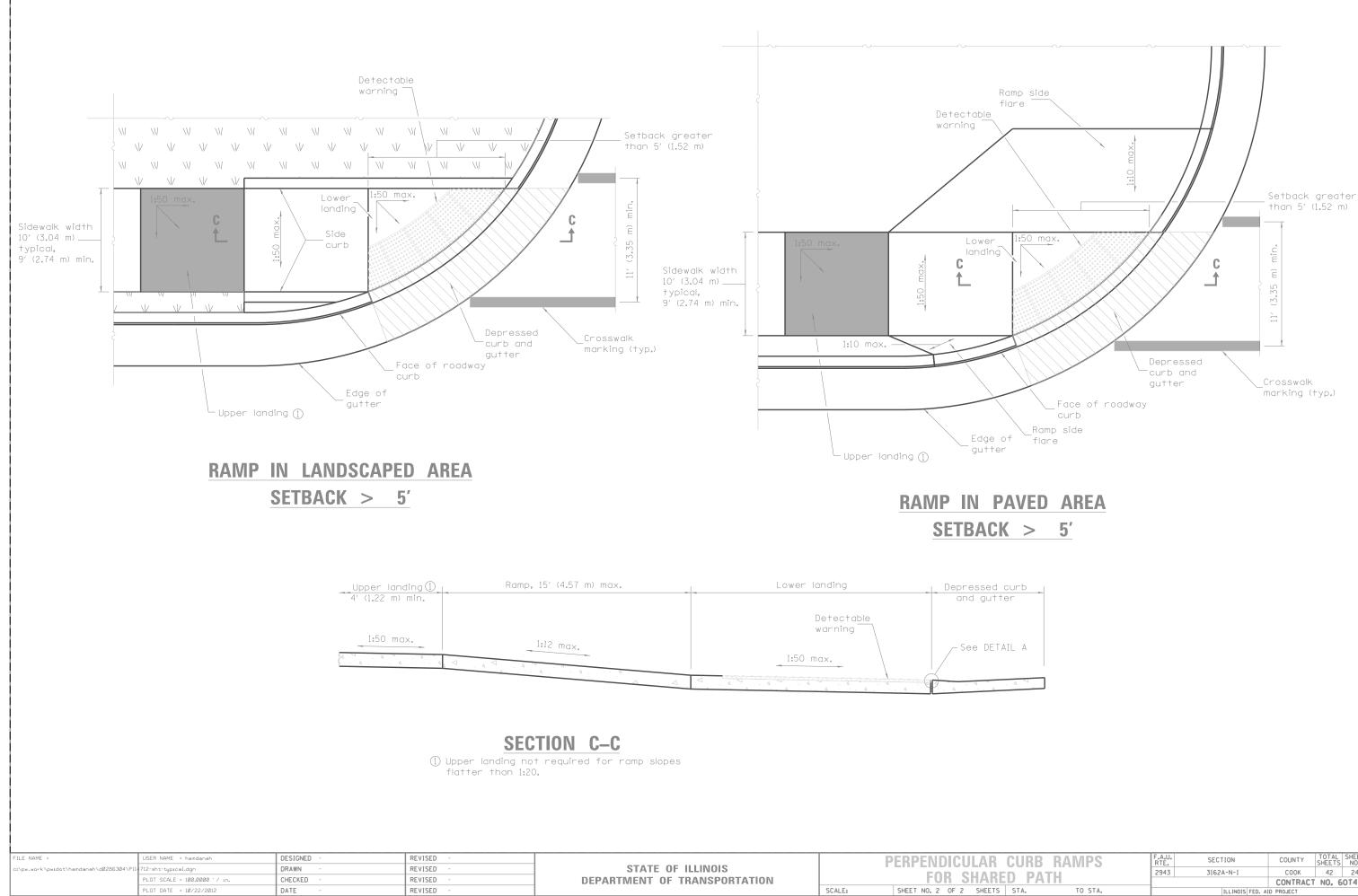
SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

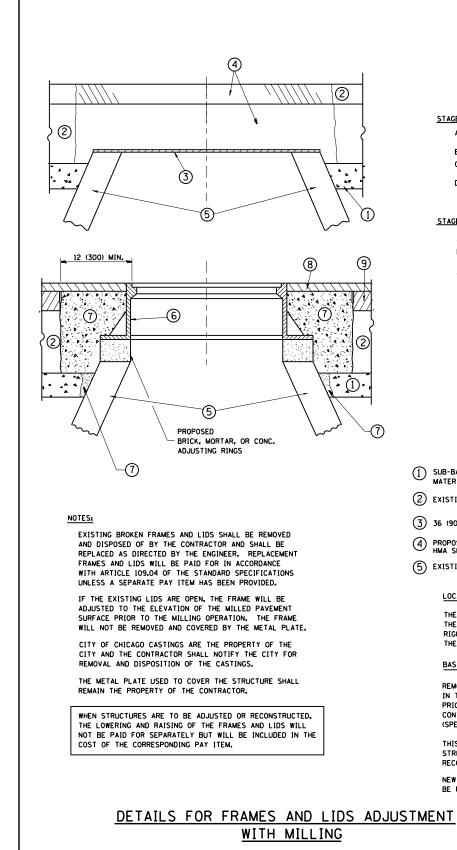
RIVER OAKS DRIVE DNE FREET NAME SIGNS		F.A.P. RTE.	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.	
		2943	3162	A-N-1		СООК	42	22	
		_				CONTRAC	I NO. 6	OT47	
	STA.	TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS FI	ED. Aİ	D PROJECT		



CURB RAI	VIPS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			3162A-N-1	СООК	42	23
ED PATH				CONTRACT	NO. 6	0147
STA.	TO STA.		ILLINOIS FED. A	D PROJECT		



CURE	B RAMPS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D D		2943	3162A-N-1	СООК	42	24
	АІП	_		CONTRACT	NO. 6	0147
STA.	TO STA.	ILLINOIS FED. AID PROJECT				
	D P	D PATH	2943	2943 3162A-N-1	2943 3162A-N-1 COOK CONTRACT CONTRACT	2943 3162A-N-1 COOK 42 CONTRACT NO. 6



FILE NAME =	USER NAME = hamdanah	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.U.	SECTION	COUNTY	TOTAL SHEET SHEFTS NO.
c:\pw_work\pwidot\hamdanah\d0286304\Dis	Std.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			2943	3162A-N-1	СООК	42 25
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILLING			A-N-1 COOK 42 2	NO. 60T47
	PLOT DATE = 10/22/2012	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		<u> </u>	D 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.

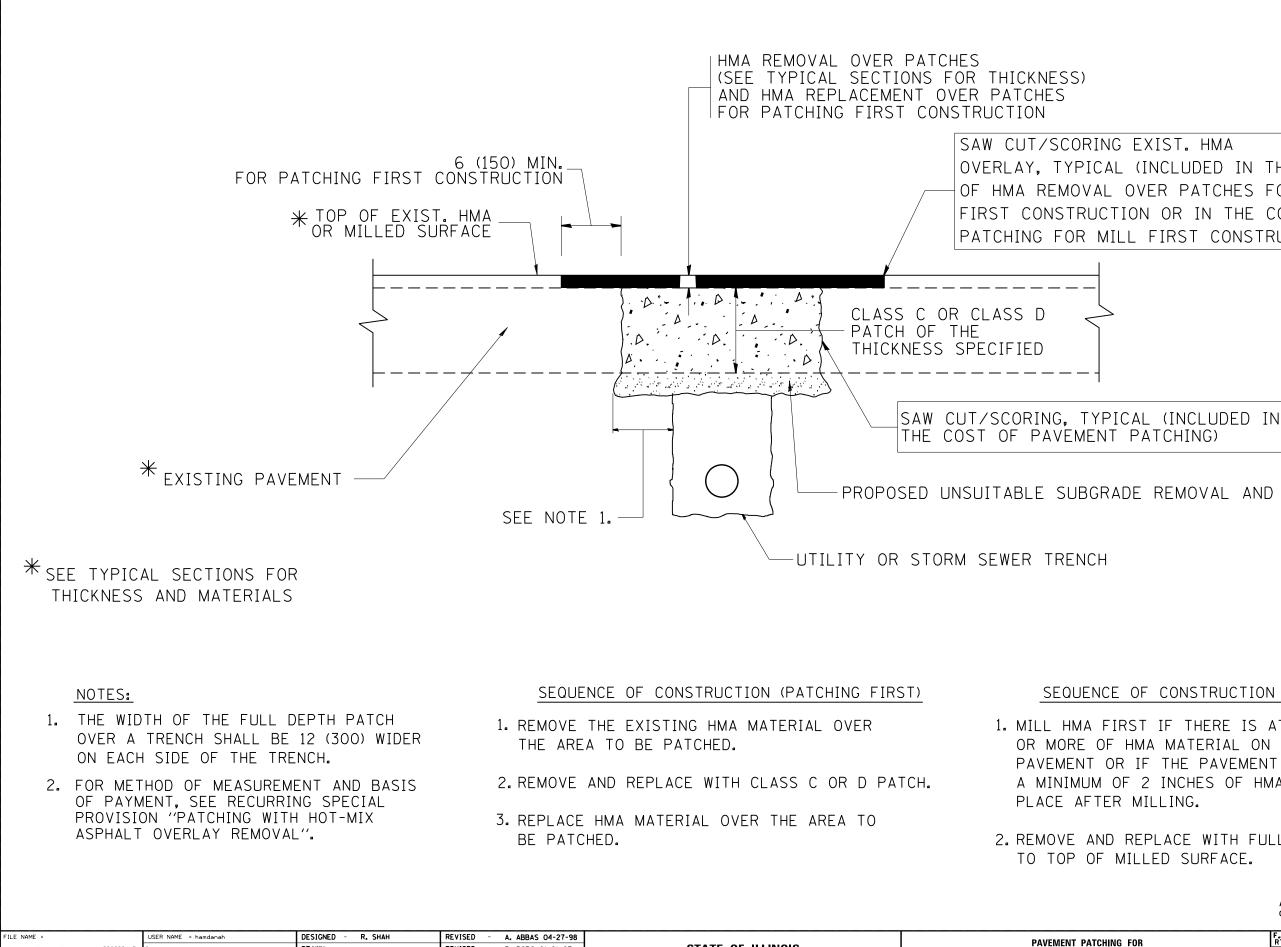
BASIS OF PAYMENT:

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 DIM	ENSIONS /	ARE 1	[N	INCHES	(MILLIMETERS)	UNLESS	OTHERWISE	SHOWN	
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	c:\pw_work\pwidot\hamdanah\d0286304\Dis	:Std.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		TAVEINENT TATOM	
		PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PA	11
		PLOT DATE = 10/22/2012	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	_
-								

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

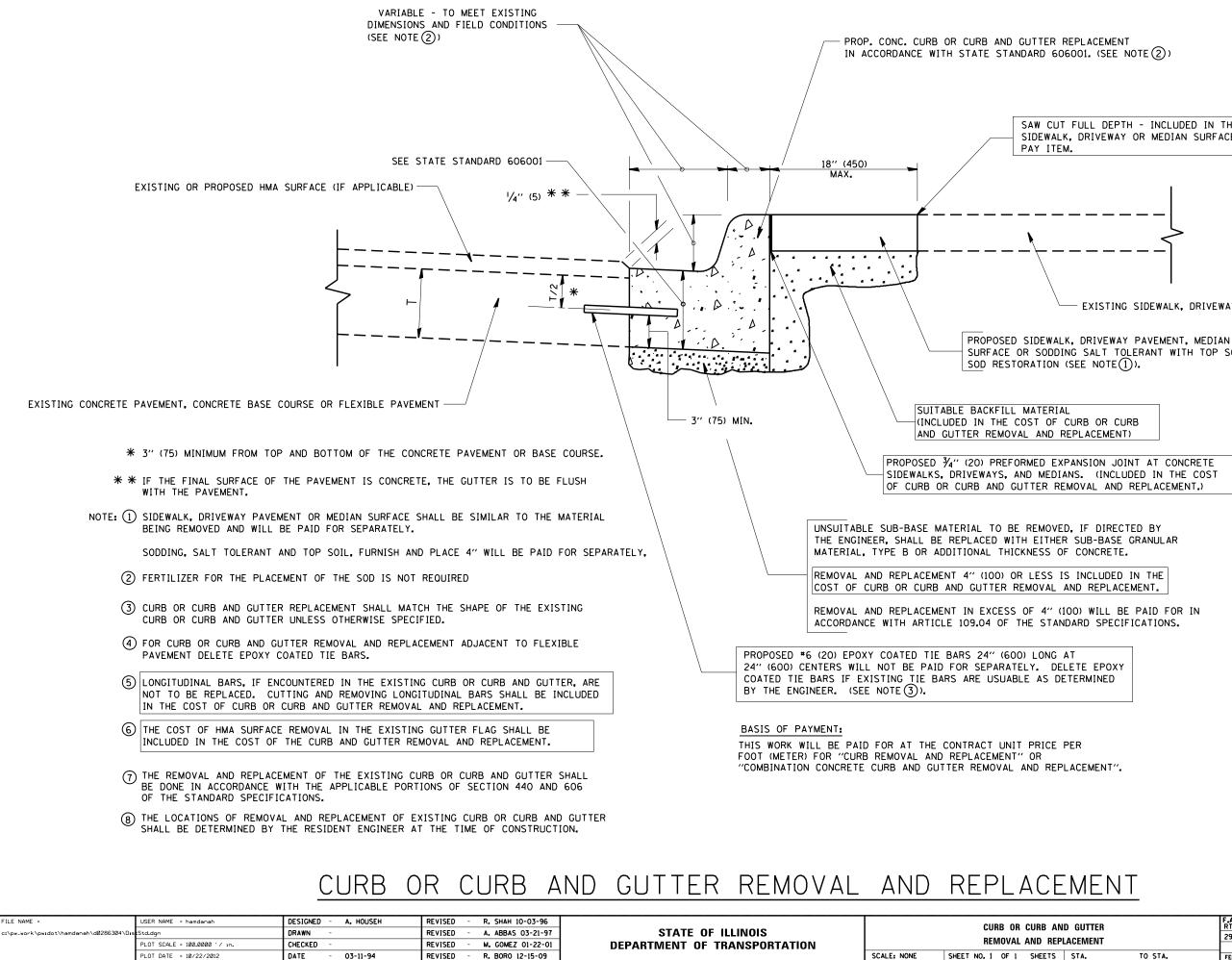
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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.

HING FOR			F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PAVEMENT		2943	3162A-N-1	COOK	42	26	
F/	PAVEIVIENI			BD400-04 (BD-22)	CONTRACT	NO. E	OT47
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



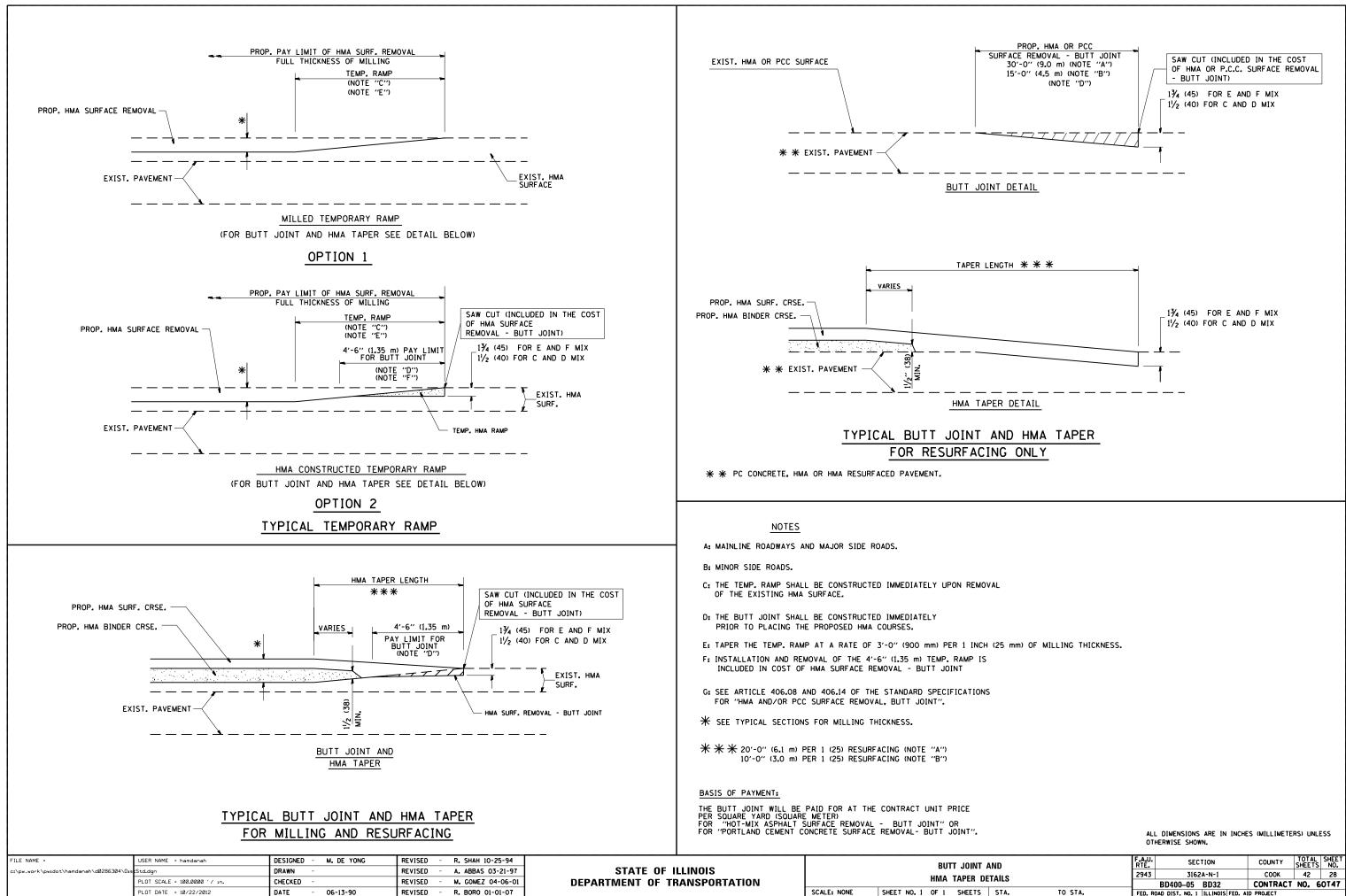
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

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.

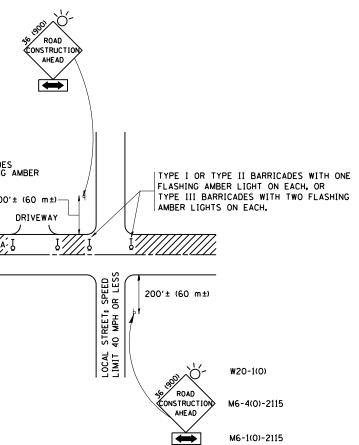
AND GUTTER EPLACEMENT		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		2943	3162A-N-1	COOK	42	27	
			BD600-06 (BD-24)	CONTRACT	NO. 6	OT47	
5	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		



AND DETAILS		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		2943	3162A-N-1	СООК	42	28	
			BD400–05 BD32	CONTRACT	NO. 6	0147	
	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

	500'± (150 m)	COLLECTOR SPEED LIMIT> 40 MPH (60 km/h)		— WITH '	III BARRI TWO FLAS S ON EAC	HING
TRAFFIC CONT	[ROL	AND	PRO	TECT	ION F	OR
A. FOR NO LANE RESTRICTION						
1. SIDE ROAD WITH A SPEED L SHOWN ON THE DRAWING AN 0) ONE ROAD CONSTRUCTION	D AS DIRE	CTED BI	THE EN	GINEER:		ED.
AND FLAG MOUNTED ON I OF THE MAIN ROUTE.						1211
b) THE CLOSED PORTION OF BLOCKING WITH TYPE I, THE CROSS SECTION OF	TYPE II OR	TYPE	III BARRI			
2. SIDE ROAD WITH A SPEED L AS SHOWN ON THE DRAWING						
ONE ROAD CONSTRUCTION FLASHER MOUNTED ON IT OF THE MAIN ROUTE.						
b) THE CLOSED PORTION OF BLOCKING WITH TYPE III OF THE CLOSED PORTION.	BARRICADE					
3. WHEN THE SIDE ROAD LIES SIGNING AND THE WORK ZON BE USED IN LIEU OF THE D	NE, A SING	LE HEAD	ED ARRO	W (M6-1) S		
010				TRAFFIC (CONTROL	AND

FILE NAME =	USER NAME = hamdanah	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95		TRAFFIC CONTROL AND PROTECTION FOR	F.A.U. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\hamdanah\d0286304\Dis	tStd.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS		2943 3162A-N-1	СООК 42 29
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. HOUSEH 10-15-96	DEPARTMENT OF TRANSPORTATION	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		CONTRACT NO. 60T47
	PLOT DATE = 10/22/2012	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 FED. A	AID PROJECT

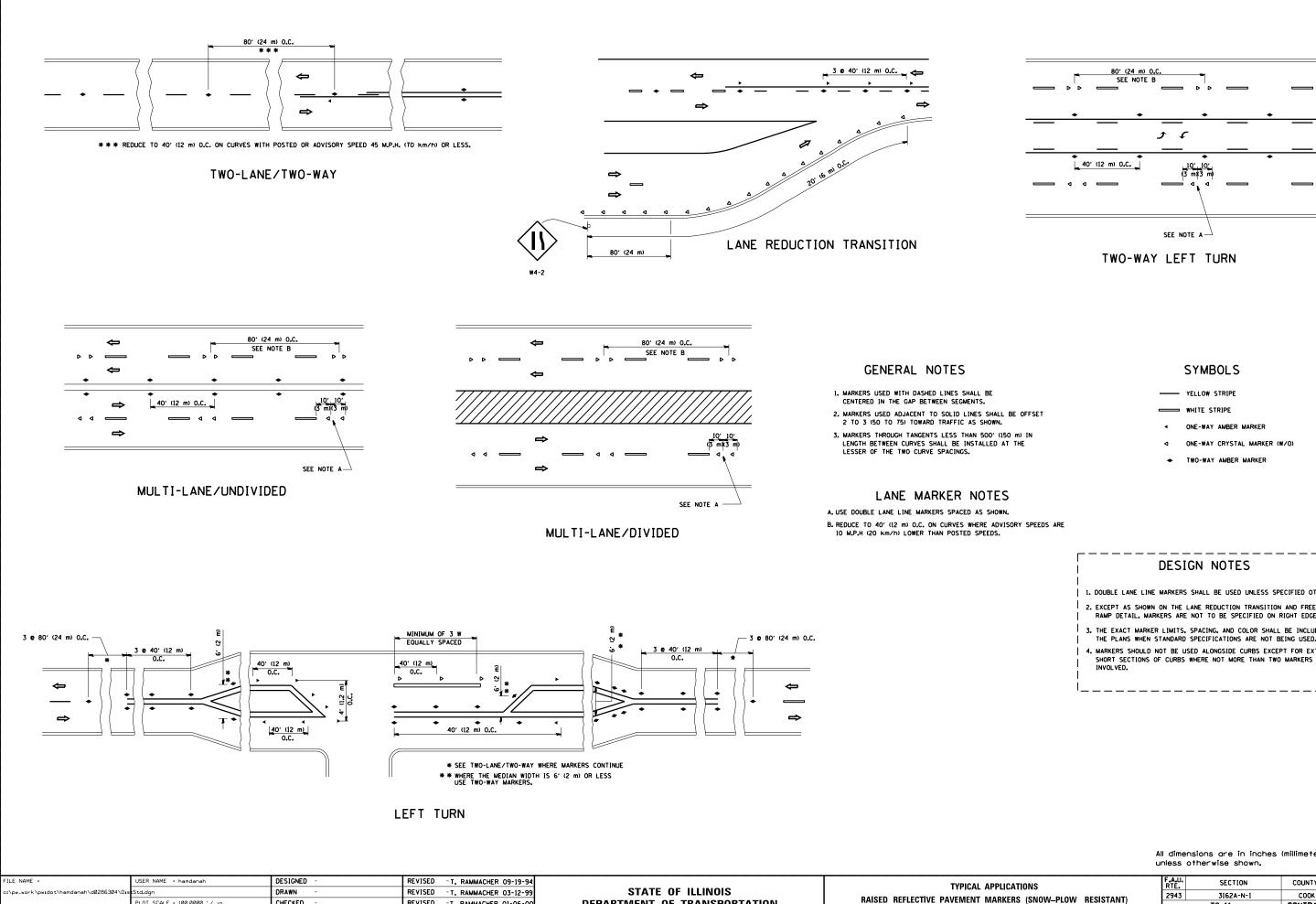


SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

B. 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.



DEPARTMENT OF TRANSPORTATION

PLOT SCALE = 100.0000 '/ in.

PLOT DATE = 10/22/2012

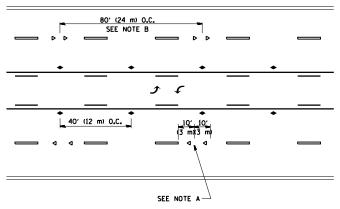
CHECKED

DATE

REVISED -T. RAMMACHER 01-06-00

REVISED - C. JUCIUS 09-09-09

SCALE: NONE SHEET NO. 1 OF 1 SHEETS



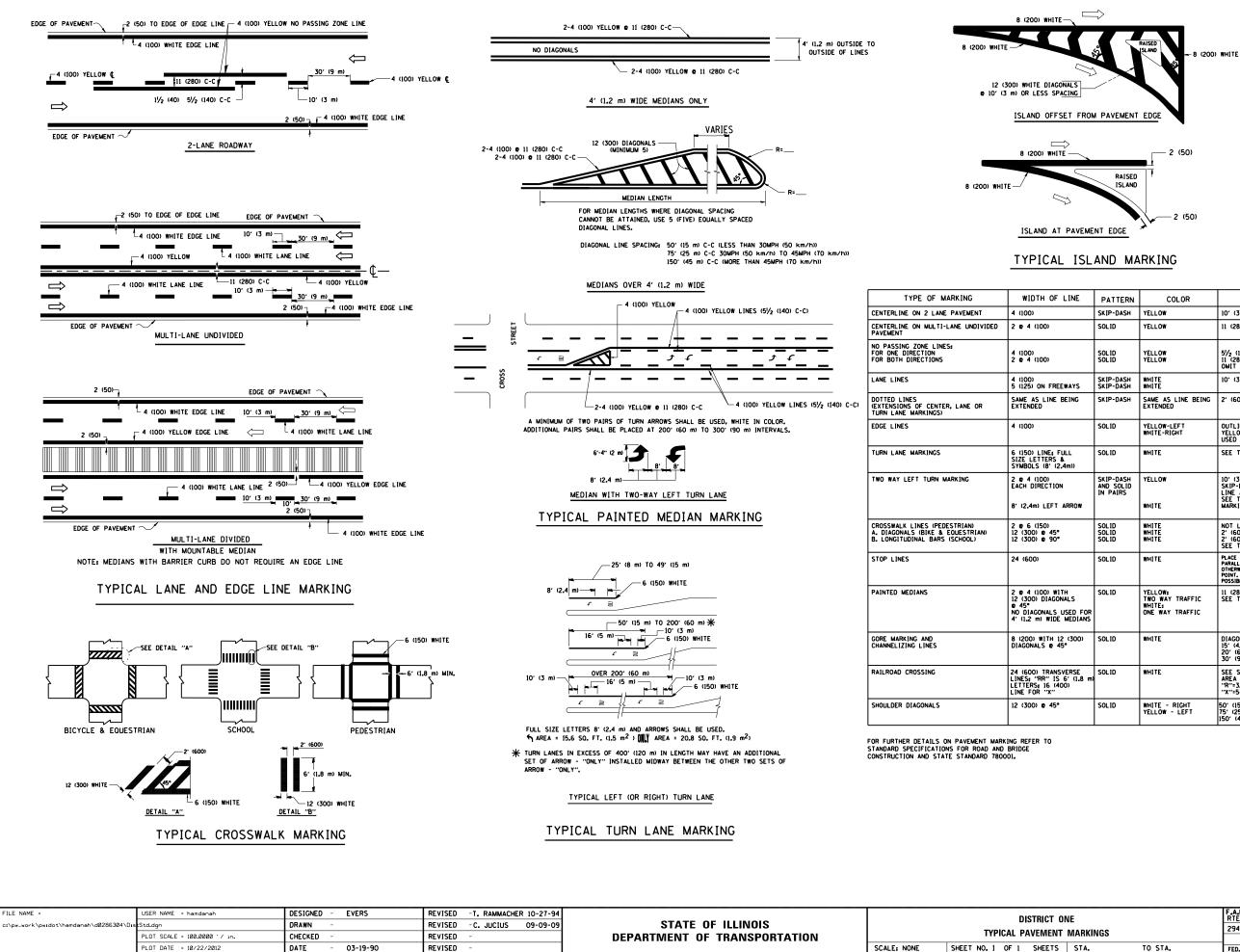




1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE. 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES. 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS 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 dimensions are	in inches	(millimeters)
unless otherwise	shown.	

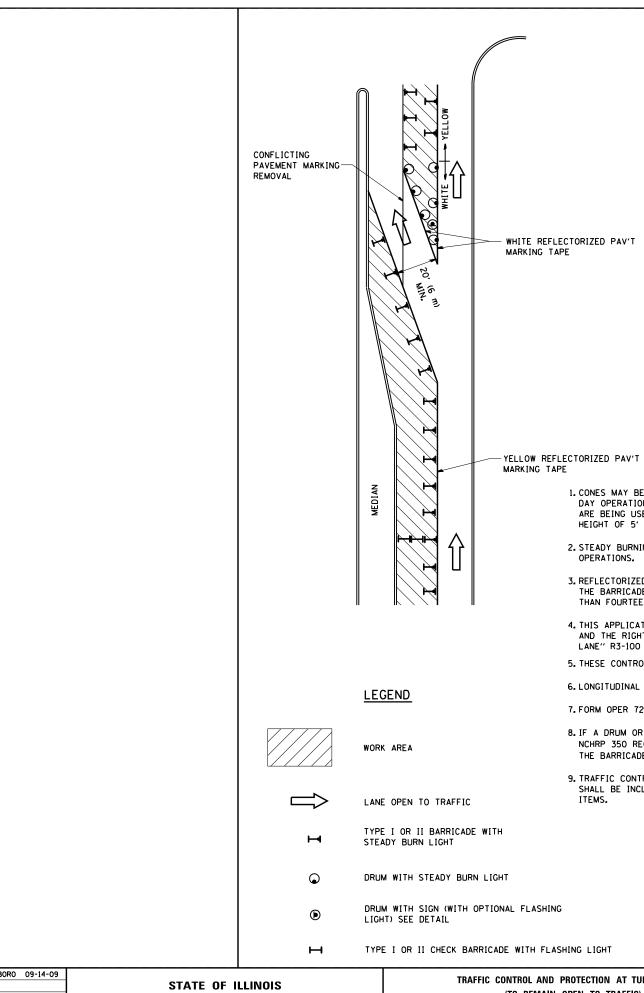
CA	TIONS	LOW RESISTANT) To sta.	F.A.I RTE	J.		SEC	TION			COUNTY	TOTA	
		DECICTANT)	294	3	3162A-N-1				COOK	42	30	
		TC-11				CONTRACT	NO.	60T47				
	STA.	TO STA.	FED.	ROAD	DIST.	NO. 1	ILL INOIS	FED.	AID	PROJECT		

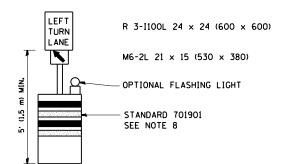


PATTERN	COLOR	SPACING / REMARKS
SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
SOLID	YELLOW	11 (280) C-C
SOL ID SOL ID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C Omit Skip-Dash centerline between
SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
SKIP-DASH	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
SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASHE 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 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 CROSSMAX, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
SOLID	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))
SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m ²) EACH "X"=54.0 SO, FT. (5.0 m ²)
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))
	SKIP-DASH SOLID SOLID SOLID SOLID SOLID SKIP-DASH SKIP-DASH SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID SOLID	SKIP-DASH YELLOW SOLID YELLOW SOLID YELLOW SOLID YELLOW SOLID YELLOW SOLID YELLOW SOLID YELLOW SKIP-DASH WHITE SKIP-DASH SAME AS LINE BEING SKIP-DASH SAME AS LINE BEING SOLID YELLOW-LEFT SOLID WHITE SOLID WHITE

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

01	NE		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
т	MARKINGS		2943	3162A-N-1	СООК	42	31
	WANKING	5		TC-13	CONTRACT	NO. 6	0147
5	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		





GENERAL NOTES

1. 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. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

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

3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

4. 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" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.

5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

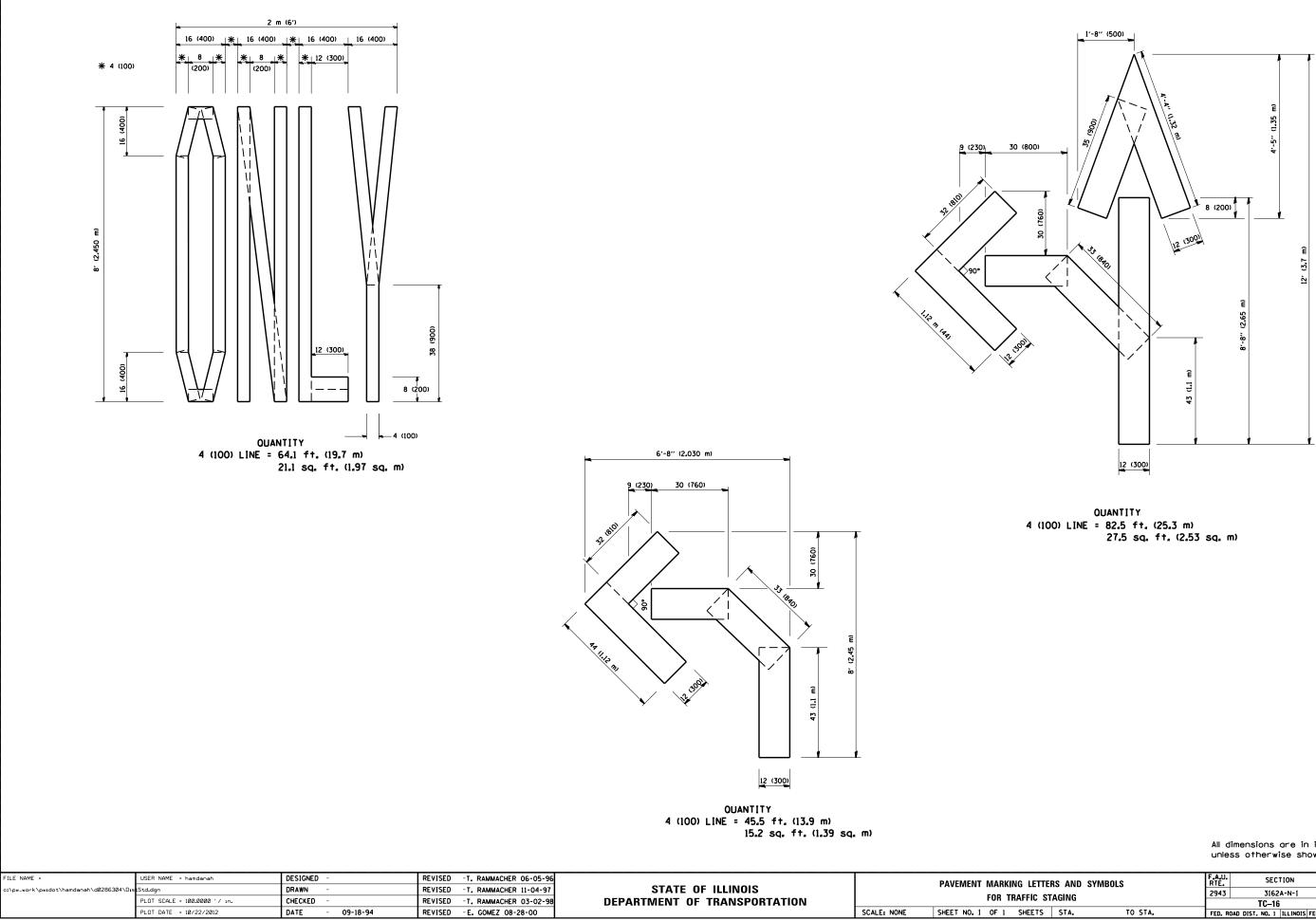
7.FORM OPER 725 IS REQUIRED.

8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHR 350 PREQUIREMENTS.

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

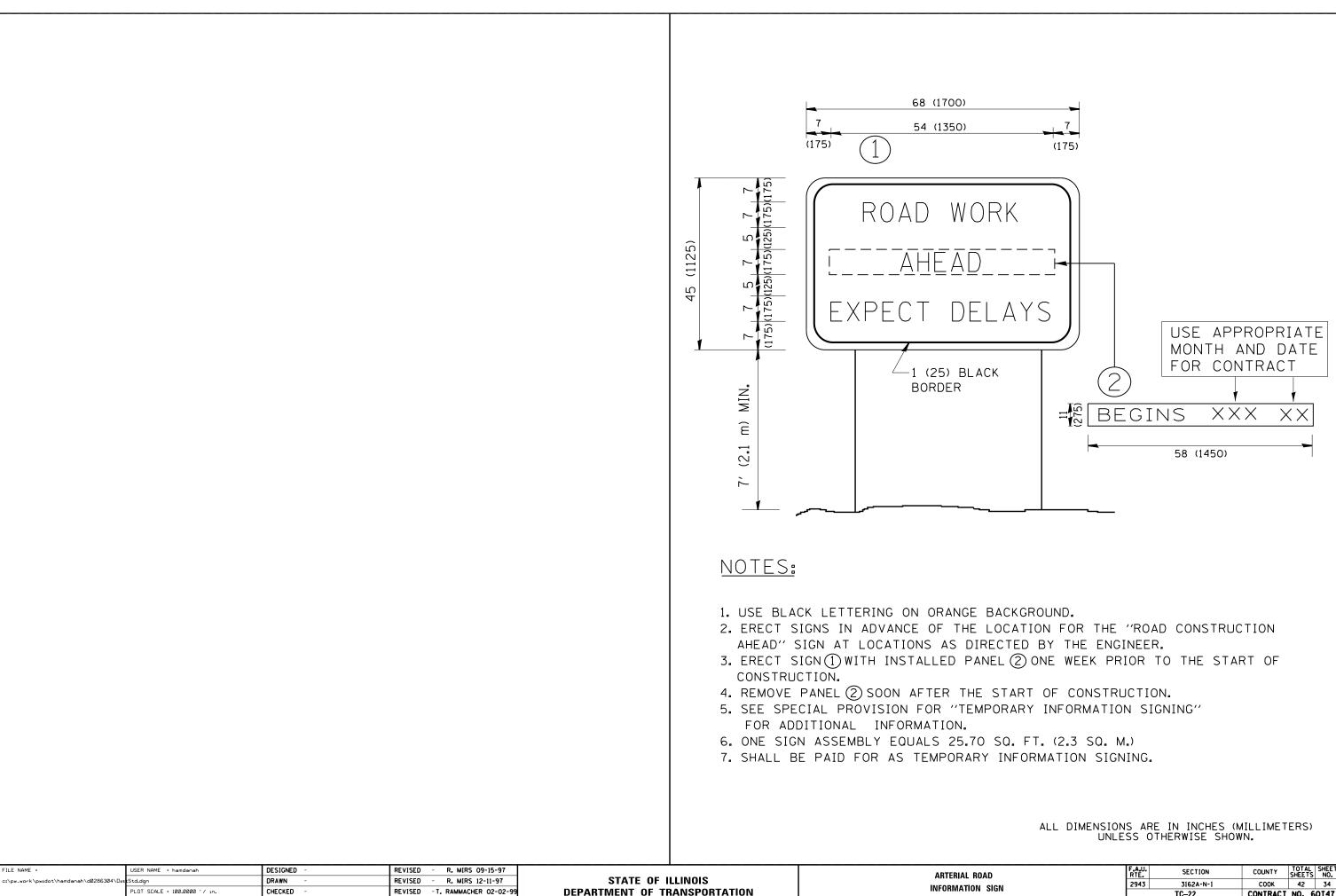
> All dimensions are in inches (millimeters) unless otherwise shown.

EC.	TION AT TU	RN BAYS	F.A.U. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
TO TRAFFIC)		2943	3162	A-N-1	СООК	42	32	
	U INATTIC			TC14		CONTRACT	NO. 6	OT47
	STA.	TO STA.	FED. RO	AD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		



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

RS AND SYMBOLS	F.A.U. RTE	SECT	COUNTY	TOTAL SHEETS	SHEET NO.		
FAGING	2943	3162	A-N-1		СООК	42	33
TAGING		TC-16			CONTRACT	NO. E	OT47
STA. TO STA.	FED. R	OAD DIST. NO. 1	ILL INOIS	FED. AI	D PROJECT		

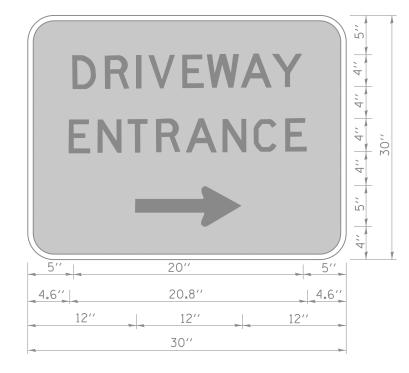


PLOT DATE = 10/22/2012

DATE

REVISED - C. JUCIUS 01-31-07

30	AD		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
м	SIGN		2943	3162A-N-1	СООК	42	34		
14	31010		TC-22 CONTRACT NO. 60T47						
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



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

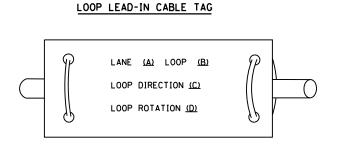
NOTES:

- 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".

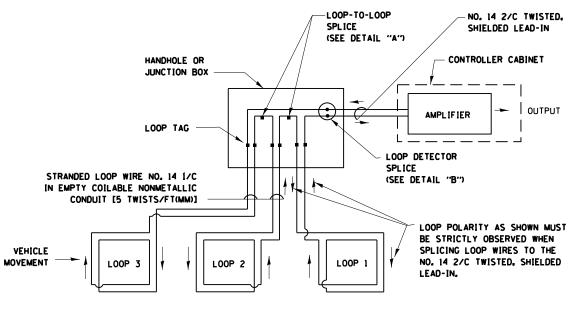
FILE NAME =	USER NAME = hamdanah	DESIGNED -	REVISED - C. JUCIUS 02-15-07		DRIVEWAY ENTRANCE SIGNING			J. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\hamdanah\d0286304\)ıstStd.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		DRIVEWAT ENTRANCE SIGNING	294	3 3162A-N-1	COOK 42 35
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				TC-26	CONTRACT NO. 60T47
	PLOT DATE = 10/22/2012	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED.	ROAD DIST. NO. 1 ILLINOIS FED. A	

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.

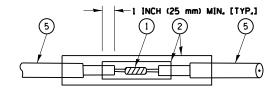


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "I IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



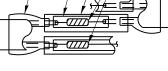
DETECTOR LOOP WIRING SCHEMATIC

- 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>/-/•ी-



LOOP-TO-LOOP SPLICE

DETAIL "A"

LOOP DETECTOR SPLICE

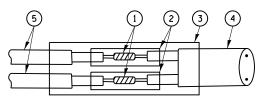
1 western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.

(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

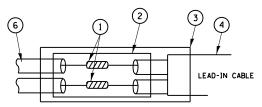
XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = hamdanah	DESIGNED - DAD	REVISED -			DISTRICT ONE	F.A.U. RTF	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\hamdanah\d0286304\D	stStd.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS			2943	3162A-N-1	СООК	42	36
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS			TS-05	CONTRACT	T NO. 6	JT47
	PLOT DATE = 10/22/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	E SHEET NO. 1 OF 6 SHEETS STA. TO STA.		DIST. NO. 1 ILLINOIS FED.			



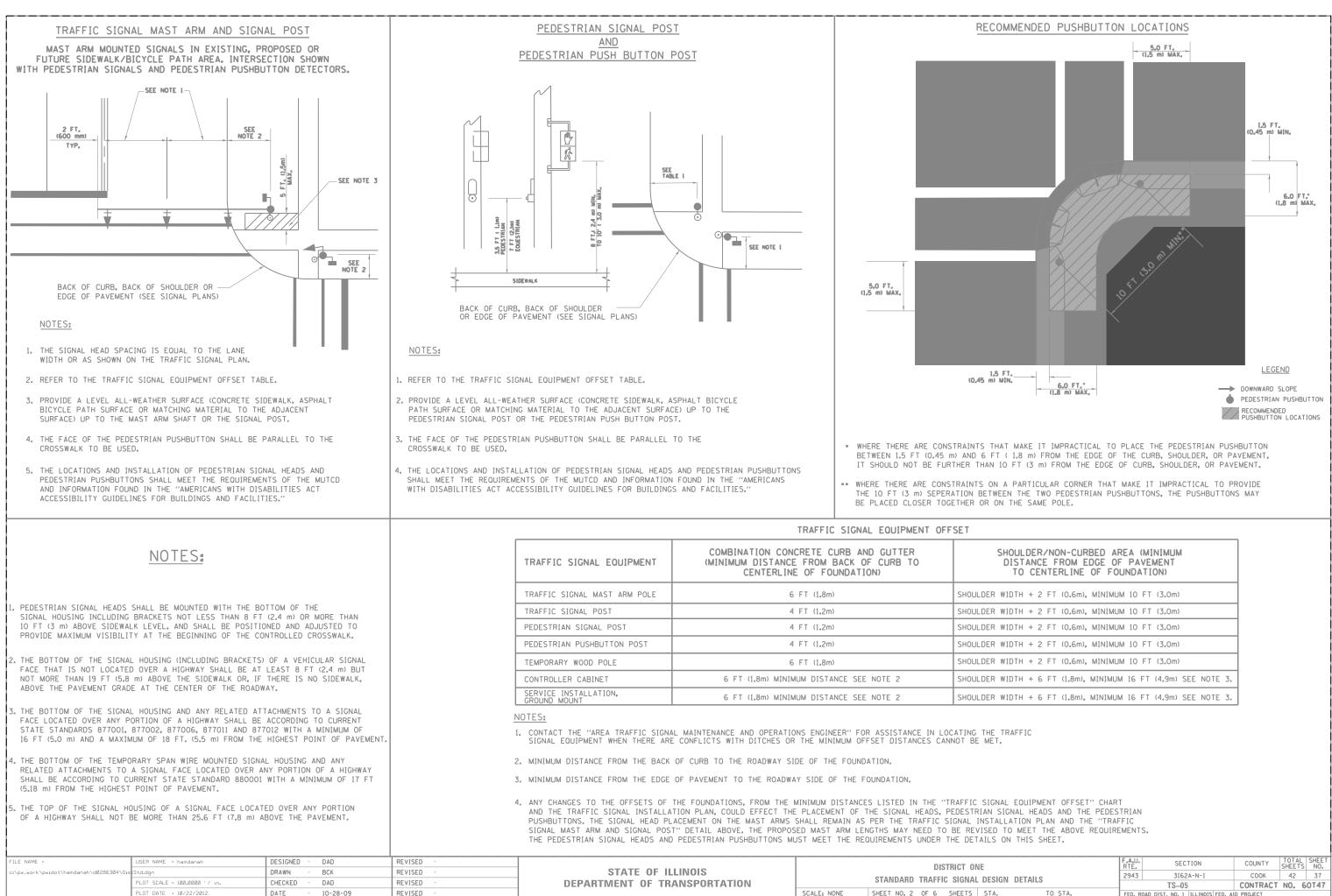
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

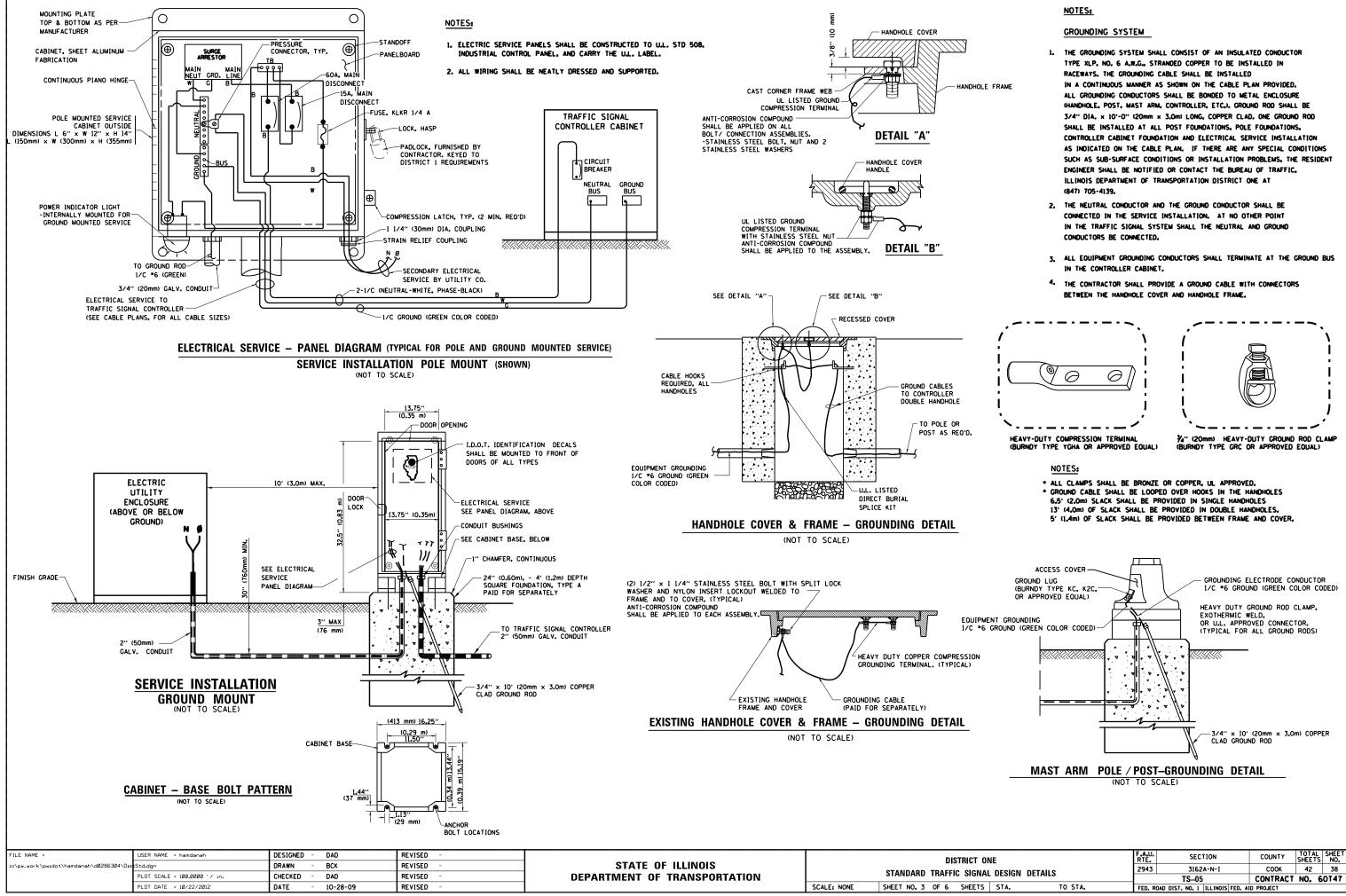


PRE-FORMED LOOP

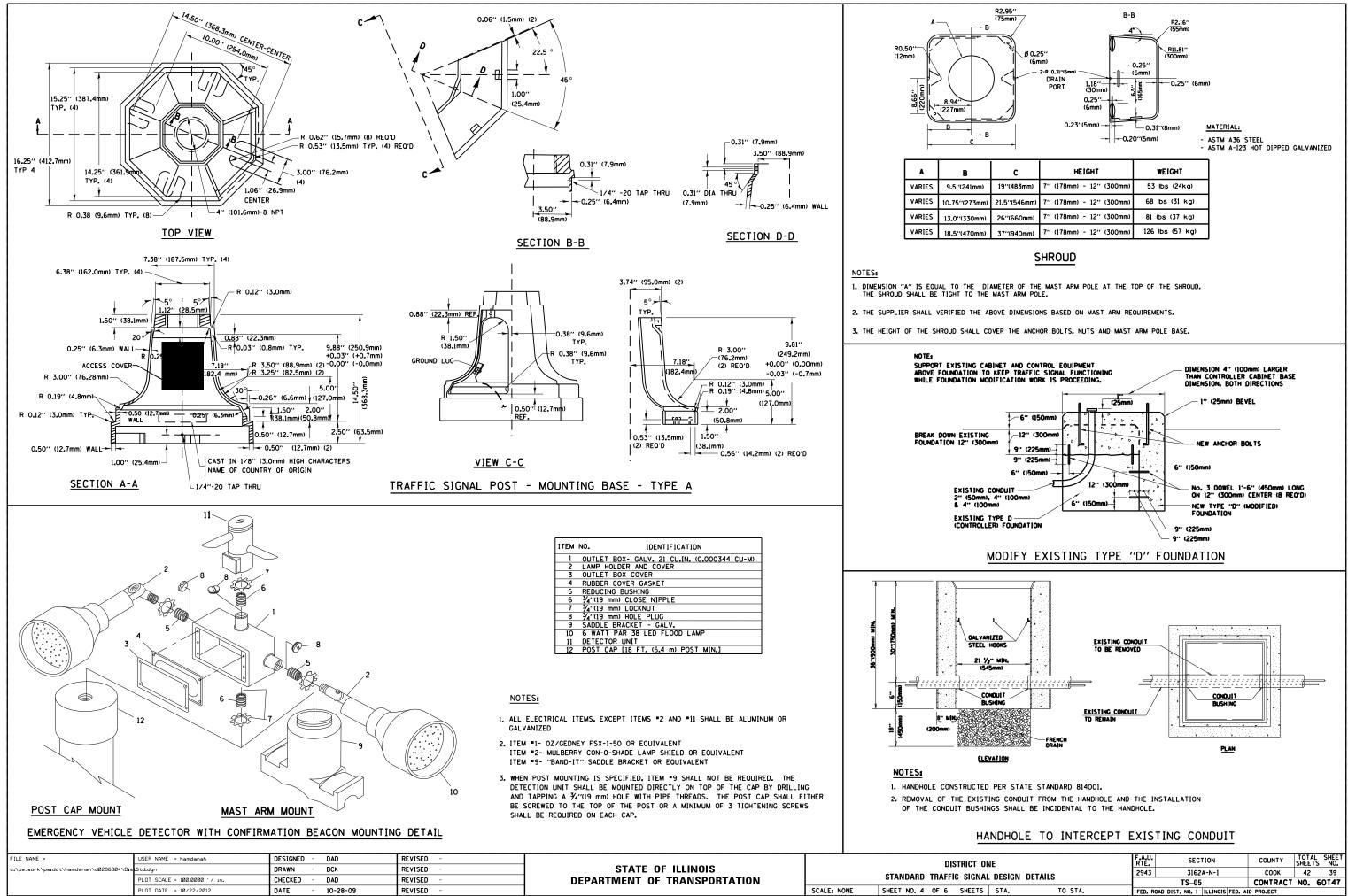
DETAIL "B" LOOP-TO-CONTROLLER SPLICE



AT.	AL DESIGN DETAILS		2943	2943 3162A-N-1					COOK	42		37
AL					TS-0	5			CONTRAC1	NO.	6	0147
S	STA.	TO STA.	FED, R	OAD DI	IST. NO. 1	I II.	LIN01S	FED. AI	D PROJECT			

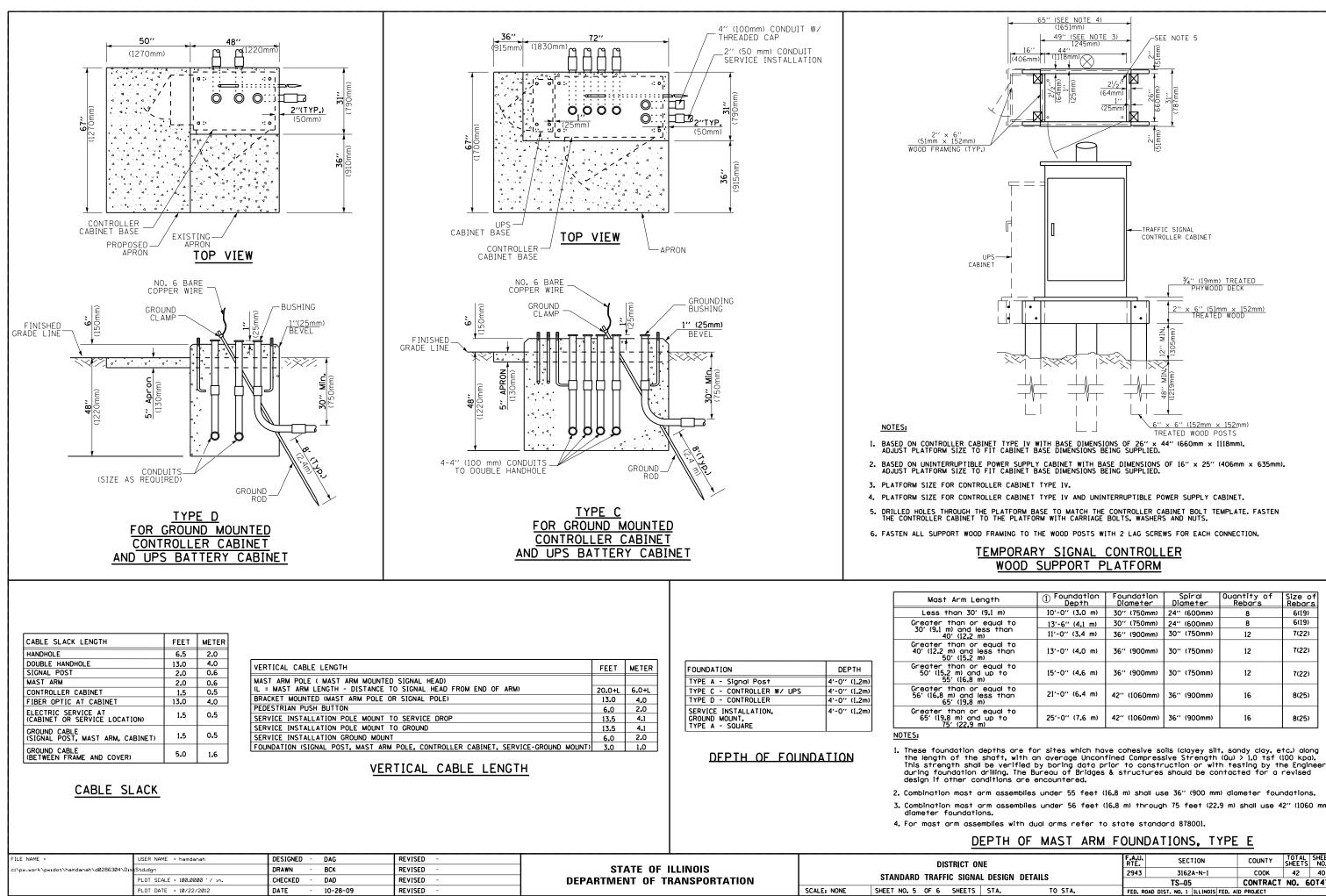


	L DESIGN DETAILS		2943	3 3162A-N-1					COOK	42		
		_		TS	-05	i		CONTRACT	NO.	6	DT	
	STA.	TO STA.	FED. R	OAD D	IST, N). 1	ILLINOIS	FED. A	D PROJECT			



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

0	INE			SECT	SECTION			COUNTY SHEETS	
171	L DESIGN DETAILS		2943	3162	A-N-1		СООК	42	39
				TS05			CONTRACT	NO. 6	60T47
S	STA.	TO STA.	FED. R	DAD DIST. NO. 1	ILL INOIS	FED. AI	D PROJECT		



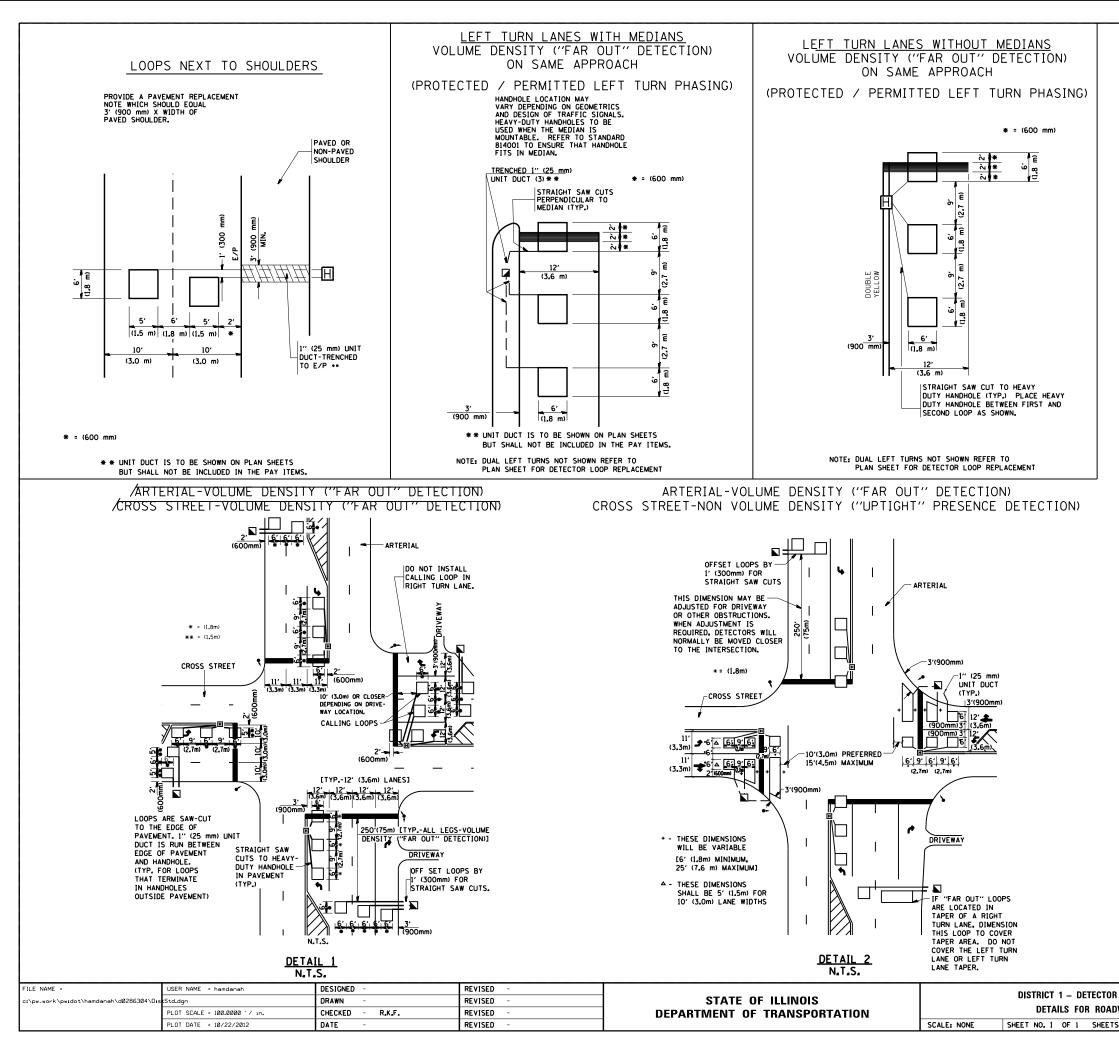
DNE F.A.U. SECTION COUNTY		 U.			JAITON J.		
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	ONE			F.A.U. RTE	SECTION	COUNTY	s

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ON	E			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAL DESIGN DETAILS		2943	3162A-N-1	СООК	42	40		
					TS05	CONTRACT	NO. 6	OT47
s I	STA.	TO STA		FED DO	AD DICT NO 1 TU INDIS FED A	D PRO IECT		

Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)' (9 . 1 m)	10'-0'' (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
r 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)
or equal to I less than ! m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
or equal to nd up to (m)	15'-0'' (4 . 6 m)	36'' (900mm)	30" (750mm)	12	7(22)
or equal to I less than I m)	21'-0" (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
or equal to nd up to) m)	25'-0" (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

TRAFFIC SIGNAL LEGEND

1751	DEMONIT	Evictivo	PPOPOSES			DEMON	EVICTIVO	DDODOCTO	1754		EVICTOR	
	REMOVAL	EXISTING	PROPOSED			REMOVAL R		PROPOSED	ITEM ELECTRIC CABLE IN CONDUIT, TRACER,	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	\boxtimes^{R}				CLE LIGHT DETECTOR	_		•	NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET	R			CONFIRMATION B	EACON	Ro-Q	0(1	H	COAXIAL CABLE		—(c)́—	—©—
COMMUNICATIONS CABINET MASTER CONTROLLER	CC	ECC	22	HANDHOLE		R						C
MASTER MASTER CONTROLLER		EMC EMMC	MC MMC	HEAVY DUTY HAN	DHOLE	R	Н	Η	VENDOR CABLE FOR CAMERA			—v—
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS		DOUBLE HANDHOL	E	R			COPPER INTERCONNECT CABLE.		-6	-6-
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	-D- ^P	- -	JUNCTION BOX		R	\bigcirc	O	NO. 18 3 PAIR TWISTED, SHIELDED FIBER OPTIC CABLE		 	U
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) O	R PUSHED (P)				NO. 62.5/125, MM12F FIBER OPTIC CABLE		-245-	245
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE	WIRE, TETHER WIRE,				NO. 62.5/125, MM12F SM12F		\sim	U
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH				CT	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		-\$	-0-
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R	0-¤	• *	COILABLE NONME SYSTEM ITEM	TALLIC CONDUIT (EMPTY)		S	CNC	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER,			c.
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PIA			INTERSECTION IT	ЕМ		I	IP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		°⊣ ⊢∾	°⋕
SIGNAL POST	RO	0	•	REMOVE ITEM		R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R	\otimes	٢	RELOCATE ITEM		RL			STEEL MAST ARM POLE AND	_RMF		
CUY WIRE	R	>-	\succ		FFIC SIGNAL SECTION	A	R	R	FOUNDATION TO BE REMOVED	0		
SIGNAL HEAD	R ⊣⊘	$\neg \triangleright$	-	12// (700) DED			R		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF O		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			→ ²		WITH 8" (200mm) EN TRAFFIC SIGNAL FACE			_	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE	+¢ ₽	+>>	+►				R	R Y	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R −▷``P``	->''P''	-► * ₽ *	SIGNAL FACE			Image: Construction	G 4 Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R O-₽⊃′′F′′	O-D⊃ ^{′′F} ′′	• - • ^{"F"}				€ €	 ← G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			IS
PEDESTRIAN SIGNAL HEAD	R -[]	-0	-1				R	R	SAMPLING (SYSTEM) DETECTOR			S
PEDESTRIAN PUSHBUTTON DETECTOR	®	0	0	SIGNAL FACE WI "P" INDICATES F	TH BACKPLATE. PROGRAMMED HEAD		G	G G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETER	CTOR	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R @ aps	@aps	@ APS				€ Y (°P''	←G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		ĻPPj	
ILLUMINATED SIGN "NO LEFT TURN"	R	\bigcirc	\odot	12'' (300mm) PED	ESTRIAN SIGNAL HEAD		(GW)	"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETER PREFORMED INTERSECTION AND SAMPLING	CTOR		.
	R		®	WALK/DON'T WAL	K SYMBOL		Ŵ		(SYSTEM) DETECTOR		₽IS 	PIS
"NO RIGHT TURN"					ESTRIAN SIGNAL HEAD SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		Į PS į	PS
DETECTOR LOOP, TYPE I				12" (300mm) PED	ESTRIAN SIGNAL HEAD							
PREFORMED DETECTOR LOOP	-	د P ه*	P	INTERNATIONAL S				Ŕ	RAILROAD	2AINIR(JLS	
MICROWAVE VEHICLE SENSOR	R	₽ M		PEDESTRIAN SIGN SYMBOL, WITH CO	NAL HEAD, INTERNATIONAL DUNTDOWN TIMER		C C D	₽ C ★ D			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R		Ø• 	RADIO INTERCON	NECT	R			RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE				RADIO REPEATER		RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	Σ	X ox x X	Xei X
PAN, TILT, ZOOM CAMERA	R PI	PIA	P		OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		XoX	X oX
WIRELESS DETECTOR SENSOR	RW	Ŵ	Ŵ		NLESS NOTED OTHERWISE. OOP CABLE TO BE SHIELDED		5	(5)	CROSSING GATE		X oX >	X o X►
WIRELESS ACCESS POINT	R			GROUND CABLE IN NO. 6 SOLID COF			— — <u> </u>	— (1)— ·	CROSSBUCK		¥	¥
FILE NAME = USER NAME = hamdonoh DESIGNED - DAG/BCK REVISED -							<u> </u>		DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEE SHEETS NO.
c:\pw_work\pwidot\hamdanah\d0286304\DistStd.dgn PLOT_SCALE = 100.0000 '/	10.	DRAWN - BCK CHECKED - DAD	REVISED - REVISED -		STATE DEPARTMENT	OF ILLINOIS OF TRANSPO			STANDARD TRAFFIC SIGNAL DESIGN DETAILS	2943	3162A-N-1 TS-05	COOK 42 41 CONTRACT NO. 60T47
PLOT DATE = 10/22/2012		DATE - 10-28-09	REVISED -					SCALE: NO	NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED	



NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED. SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON \underline{ALL} SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

LOOP INSTALLATION			F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
WAY RESURFACING				3162A-N-1	СООК	42	42				
VV/	AT NEQUNI	FACING		TS-07	CONTRACT	NO. 6	0147				
5	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							