1-17-14 LETTING ITEM 013

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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IMPROVEMENT LOCATED IN THE VILLAGE OF SUMMIT AND CITY OF CHICAGO

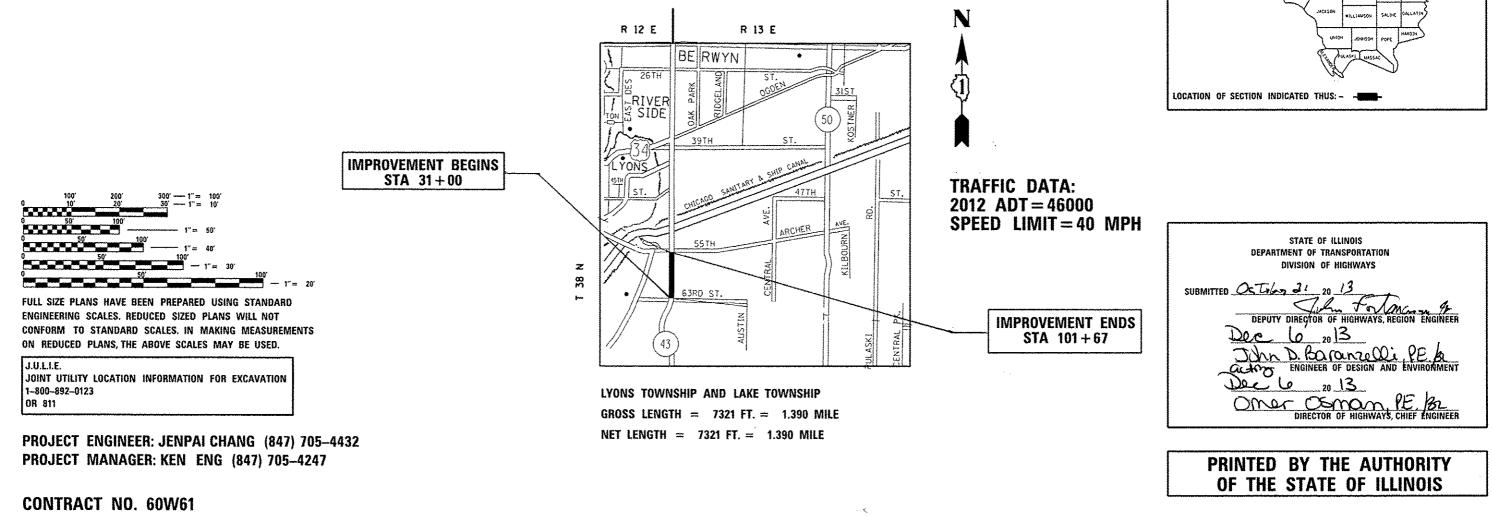
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

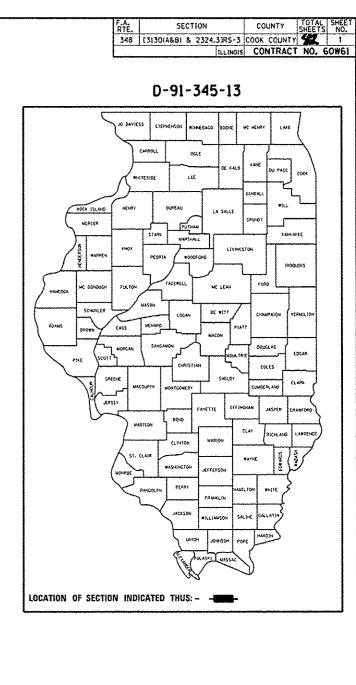
DIVISION OF HIGHWAYS

PROPOSED **HIGHWAY PLANS**

F.A.P. 348 /ILL 43 (HARLEM AVE) SECTION [3130(A&B) & 2324.3]RS-3 I-55 TO 63RD STREET **RESURFACING (3P) COOK COUNTY**

C-91-345-13





	INDEX OF SHEETS	GENERAL NOTES	GENERAL NOTES CONTINUED
SHEET NO.	DESCRIPTION	BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N" (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)	THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS IMPROVEMENT.
1	TITLE SHEET		
2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.	THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN
3-4	SUMMARY OF QUANTITIES	BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING	SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
5-8	EXISTING AND PROPOSED TYPICAL SECTIONS	MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.	
9-15	ROADWAY AND PAVEMENT MARKING PLANS	DETAILS SHEET INCLUDED IN THE FLANS UNLESS OTHERWISE SPECIFIED.	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
16-20	DETAILS FOR FRAME AND LIDS ADJUSTMENT WITH MILLING	WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC. THE MAXIMUM GRADE DIFFERENTIAL BETWEEN	THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.
21	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A	
22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).	EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE
23	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	WILLING IS SLOLED A MINIMUM OF IS (417).	CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE
24	BUTT JOINT AND HMA TAPER DETAILS		STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
25	CITY OF CHICAGO CATCH BASIN. INLET AND MANHOLE DETAILS	WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISABILITY TO THE MOTORING	
26	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	PUBLIC AND ADJOINING RESIDENTIAL AREAS. ALL PAVEMENT PATCHING, DRAINAGE ADJUSTMENT, AND CURB AND GUTTER REMOVAL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.	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.
27	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW- PLOW RESISTANT)	BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT	OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING
28	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	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.	UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT
29	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		SPECIFICATIONS.
30	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	THE RESIDENT ENGINEER SHALL CONTACT JERNARD PERKINS, AREA TRAFFIC FIELD ENGINEER, AT	DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
31	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	(708) 524-2145 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS	THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF CHICAGO AND VILLAGE OF SUMMIT.
32	ARTERIAL ROAD INFORMATION SIGN	THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.	
33-35	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS	THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS	CITY OF CHICAGO NOTES
36-41	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	EXISTING IN THE FIELD PRIOR TO CONSTRUCTING AND ORDERING MATERIALS.	CITE OF CHICAGO NOTES
42	DISTRICT 1-DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH ALL RAILROADS WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD R.O.W. THE	PERMITS FROM THE CITY OF CHICAGO ARE REQUIRED BY THE CONTRACTOR FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED STORM SEWER CONSTRUCTION, AND FOR ALL WORK INVOLVED WITH
	STATE STANDARDS	CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC. AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR	THE ADJUSTMENT OF SEWER STRUCTURES.
STANDARD NO.	DESCRIPTION	ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.	ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND LIDS ON SEWER STRUCTURES, SHALL BE REPLACED WITH NEW DEPARTMENT OF SEWERS' STANDARD FRAMES AND LIDS.
000001 <i>.06</i> T	YPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS	ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY	
424011-0/ C	ORNER PARALLEL CURB RAMPS FOR SIDEWALKS	MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.	OBSTRUCTED DURING CONSTRUCTION OF THIS ROADWAY WITHOUT THE WRITTEN
442201- <i>0</i> 3 C	LASS C AND D PATCHES	ALL DAMAGE TO EVICTING DAMENENT MARYTHES OF DATES OF SETTING DAMENENT PLOYEDS	PERMISSION FROM THE CITY OF CHICAGO.
	DNCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER	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	CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY OF CHICAGO AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
	RBAN LANE CLOSURE, 2L, 2W, UNDIVIDED	COST TO THE DEPARTMENT.	CONTRACTOR CHARTER FROM TO THE CELL FOR REMOVAL AND DISERSTITUA OF THE CASILIADS.
	RBAN LANE CLOSURE, MULTILANE, IW OR 2W WITH NONTRAVERSABLE MEDIAN	FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS	
	RBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN RBAN LANE CLOSURE. MULTILANE INTERSECTION	CONTRACT.	
	RAFFIC CONTROL DEVICES		
FILE NAME =	USER HAME = hemptanad DESIGNED - REVISED -		13 (HARLEM AVE.) / 155 TO 63RD ST. RTE. SECTION COUNTY TOTAL SHEETS NO.
cs\pw,work\pwidot\hampion	d\u00345019\0144513-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STATE OF ILLINUIS	TS, STATE STANDARDS AND GENERAL NOTES
	PLOT DATE + 10/31/2013 DATE - REVISED -		OF SHEETS STA, TO STA. ILLINDIS FED. AID PROJECT

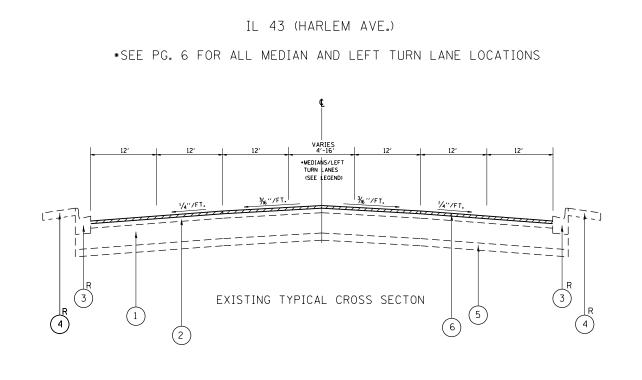
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	SUMMARY OF QUANTITIES		STATE		CONSTRUCTIO	N IYPE C	ODE		SUMM	ARY OF QUANTITIES		100%. STATE			NSTRUCTION	TYPE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES					CODE NO		ITEM	UNIT	TOTAL QUANTITIES	0005				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	83	83				44000600	SIDEWALK RE	MOVAL	SO FT	800	800				
25200110	SODDING, SALT TOLERANT	SO YD	83	83				44201789	CLASS D PAT	CHES. TYPE II. 12 INCH	SQ YD	650	650				
-40600200	BITUMINOUS MATERIALS (PRIME COAT)		74	74				44201794	CLASS D PAT	CHES, TYPE []], 12 [NCH	SQ YD	440	440				
40600300	AGGREGATE (PRIME-COAT)	TON						44201796	CLASS 0 PAT	CHES, TYPE IV, 12 INCH	SO YD	1 200	1 200				
40600400	MIXTURE FOR CRACKS. JOINTS. AND	TON	1 38	138				60252800	CATCH BASI	IS TO BE RECONSTRUCTED	EACH	10	10				
	FLANGEWAYS							60300305	FRAMES AND	LIDS TO BE ADJUSTED	EACH	20	20				
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	3778	3778									à-				
	METHOD). IL-4.75. N50							60406000	FRAMES AND	LIDS. TYPE 1. OPEN LID	EACH	7	7				
40600895	CONSTRUCTING TEST STRIP	EACH	2	2				60406100	FRAMES AND	LIDS, TYPE 1, CLOSED LID	EACH	7	7				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	517	517				67000400	ENGINEER' S	FIELD OFFICE, TYPE A	CAL MO	3	3				
	JOINT																
								67100100	MOBILIZATIO	N	L SUM	1	1				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	8976	8976				70102620	TRAFFIC COM	ITROL AND PROTECTION.	L SUM	1	1				
				-					STANDARD 70	01501							
42001300	PROTECTIVE COAT	SO YO	167	167													
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SO FT	800	800				70102625	TRAFFIC CON STANDARD 70	ITROL AND PROTECTION.	L SUM	1	L				
12100200	INCH																
								70102630	TRAFFIC COM	ITROL AND PROTECTION,	L SUM	1	t				
42400800	DETECTABLE WARNINGS	SO FT	500	500					STANDARD 70								
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	91583	91583				70102635		ITROL AND PROTECTION.	L SUM	I	1				
FILE NOME +	USER NAME * Nonphronad D	ESIGNED -		REVISED	-	440-440 y 1000-440 y 10		and a second	STANDARD 70		RY OF QUANT	TIFS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEE SHEETS NO.
	alancatra0545019-0/34513-site alabaga	RAWN - HECKED -		REVISED		n		TE OF ILLINOIS	TION	IL. BTE. 43 (HARLE			r.		3130(A&B) & 232	4.33RS-3 Cook	42 3 CT NO. 60W61

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f				URBAN	/	CONCTO	UCTION TYPE	2005		1			URBAN 100-1.			ONSTRUCT	ON TYPE CO	00	
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· · · · ·	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					
· •	70300100	SHORT TERM PAVEMENT MARK INC	FOOT	16000	1 6000					¥ 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE	FOOT	1540	1540					
											6"								
	70300210	TEMPORARY PAVEMENT MARKING LETTERS AND	SQ FT	1155	1155														
		SYMBOLS								★ 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE	FOOT	120	120					ļ
											12"								
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5080	5080					¥ 78008270	POLYUREA PAVEMENT MARKING TYPE I -LINE 24	F00T	300	300					ļ
	70300240	TEMPORARY PAVEMENT MARKING ~ LINE 6"	FOOT	1444	1444					X 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1090	1090					
	10000240					· · · ·		-		1 10100100				1030					
-	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	392	392					78300200	RAISED REFLECTIVE PAVEMENT MARKER	ЕАСН	981	981					
		•									REMOVAL								
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	840	840														
										★ 78008200	POLYUREA PAVEMENT MARK [NG TYPE [-	SO FT	150	150					ļ
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	50 FT	9160	9160						LETTERS AND SYMBOLS		· · · · · · · · · · · · · · · · · · ·						
×	78000100	THERMOPLASTIC PAVEMENT MARKING -	SQ FT	1155	1155					¥ 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1750	1750					
		LETTERS AND SYMBOLS								×									
										X4060120	NON-TRACKING BITUMINOUS MATERIALS	POUND	61818	61818					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	15256	15256						(PRIME COAT)								
		4"													-				ļ
						· ·				x5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	3600	3600			-v		<u> </u>
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	4050	4050														
		6"								x6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	142	142					
*	78000600	THERMOPLASTIC PAVEMENT MARKING ~ LINE	FOOT	2185	2185						· · · · ·								
		12"								20004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	500	500					
											REMOVAL AND REPLACEMENT								
*[78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	3292	3292														ļ
										Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	60	60					
*	78008210	POLYUREA PAVEMENT MARKING TYPE I -LINE 4"	FOOT	1780	1780					20030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
3	FILE NAME +	* Specially Hems	ESIGNED -		REVISED					13		Y OF QUANT	1	21.4	F.A.P. RTE.	SECT		COUNTY	TOTA
	chpr.wort\pridonsom	planed d0345019-01345/3-sl4-plab.dgn 01	RAWN -		REVISED				TATE OF I		H DTE AS (UADIES			T.		(3130(A&B) &	2324.3JRS-3	COOK	42
1			HECKED -		REVISED		\neg	DEPARIM	IENI UF TI	RANSPORTA	SCALE: SHEET NO. OF			STA.		I OAD DIST. NO. 1	C	ONTRACT	N

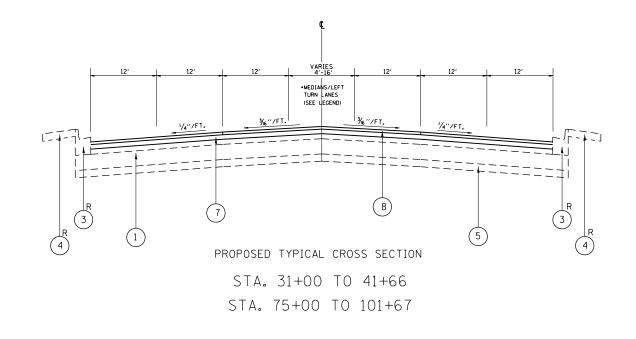
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Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1									
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		HECKED - ATE -		REVISED REVISED	-		DEPARTM	IENT OF T	RANSPORTA	TION		RTE. 43 (HARLEM AVE	

			C	ONSTRUCTI	ON TYPE	CODE	
IIT	TOTAL QUANTITIES						
UANTI 155	TIES To 63rd St	<u> </u>	F.A.P. RTE. 348	SEC [3130(A&B) &	TION 2324.3]RS-3	Cook	TOTAL SHEET SHEETS NO. 42 5
STA.		D STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED. AI	CONTRACT PROJECT	NO. 60W61



IL 43 (HARLEM AVE.)

*SEE PG. 6 FOR ALL MEDIAN AND LEFT TURN LANE LOCATIONS



<u>EGEND:</u>

- EXIST. P.C.C. PAVEMENT, ±9"
- EXIST. HOT-MIX ASPHALT SURFACE AFTER MILLING, ±3" 2
- EXIST. COMB. CONC. CURB AND GUTTER, TYPE B-6.12 3
- EXIST. P.C.C. SIDEWALK 4
- EXIST. STABILIZED SUB-BASE 5
- PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 21/2" 6
- 7
- 8
- R SIDEWALK, CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DIRECTED BY THE ENGINEER)

MIXTURE REQUIREMENTS

OPERATION	MIXTURE USE	DESIGN AIR VOIDS @ Ndes
PATCHING	CLASS "D" PATCHES, 13" HMA BINDER COURSE, IL-19MM	4% @ 70 GYR
RESURFACING	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% @ 50 GYR
RESURFACING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, IL-9.5MM	4% @ 90 GYR

NOTE:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT QUANTITIES IS 112 LBS./SQ. YD./ IN. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA 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"

THE MILLING SHALL BE DONE PRIOR TO PATCHING

FILE NAME =	USER NAME = hamptoned	DESIGNED -	REVISED -			EXIS	TING AND	PROPOSI	ED TYPICA	L SECTIONS	F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\hamptoncd\d0345019\D13	4513-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						63RD STREET	348 [3130(A&B) & 2324.3]RS-3	соок	42 6
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 60W61
Default	PLOT DATE = 10/31/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEET	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	

PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "

PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1³/₄"

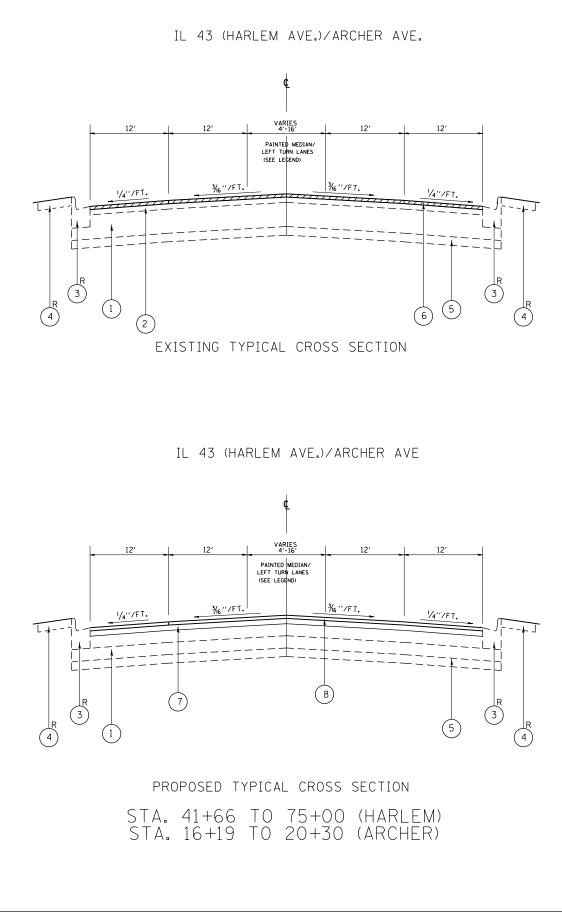


EXISTING PAINTED Median locations:	EXISTING LEFT Turn lane locations:	DETECTABLE Locations:	WARNING
STA. 31+00 TO 39+97 STA. 42+78 TO 46+62 STA. 56+03 TO 57+66 STA. 58+94 TO 61+03 STA. 62+54 TO 63+76 STA. 64+85 TO 66+60 STA. 70+18 TO 72+96 STA. 76+35 TO 77+80 STA. 84+96 TO 86+62 STA. 87+20 TO 88+44 STA. 89+26 TO 89+61 STA. 90+50 TO 92+16	STA. 39+97 TO 41+03 STA. 41+75 TO 42+78 STA. 46+62 TO 47+66 STA. 55+33 TO 56+03 STA. 58+28 TO 58+94 STA. 62+00 TO 62+54 STA. 63+76 TO 64+28 STA. 66+60 TO 67+60 STA. 68+72 TO 70+18 STA. 72+96 TO 74+24 STA. 75+38 TO 76+35 STA. 77+80 TO 80+74 STA. 82+00 TO 84+96 STA. 88+90 TO 89+26 STA. 89+61 TO 90+00 STA. 90+50 TO 92+50	<u>STREET</u> 61ST. PL. 61ST. ST. 60TH. PL. 60TH. ST. 59TH. ST. 58TH. ST. ARCHER AVE. 54TH. ST.	<u>CORNER</u> NW,SW,NE,SE NW,SW NW,SE,NE,SE NW NE,SE NW,SW,NE,SE NE
EXISTING CORREGATED Median locations:	EXISTING BARRIER Median locations:		
STA. 48+29 TO 51+40	STA. 51+78 TO 54+34		

EXISTING LANDSCAPE MEDIAN LOCATIONS:

STA. 92+16 TO 95+00

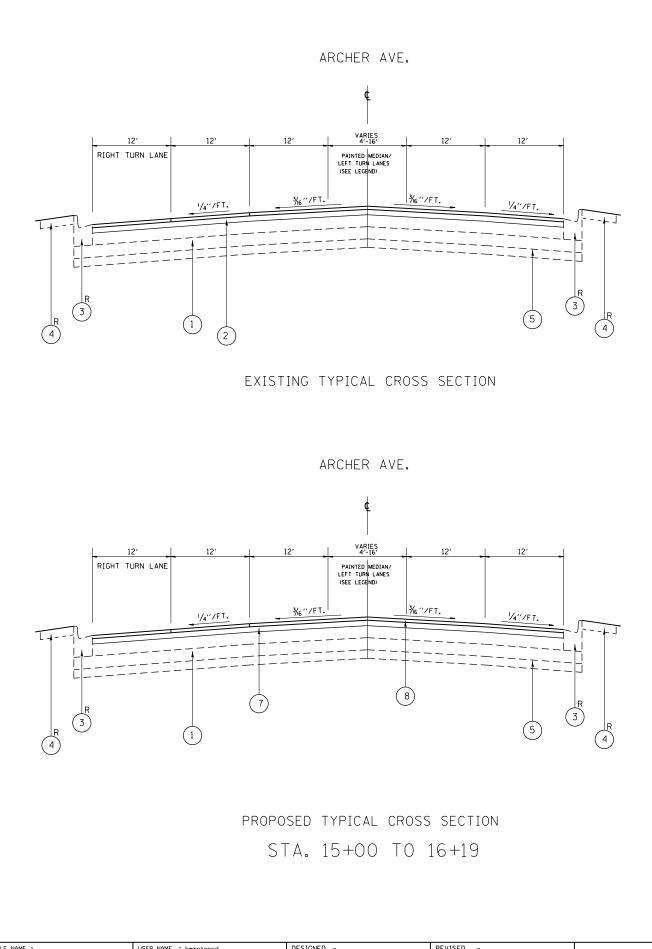
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LEGEND:

- EXIST. P.C.C. PAVEMENT, ±9"
- EXIST. HOT-MIX ASPHALT SURFACE AFTER MILLING, ±3" 2
- EXIST. COMB. CONC. CURB AND GUTTER, TYPE B-6.12 3
- EXIST. P.C.C. SIDEWALK 4
- EXIST. STABILIZED SUB-BASE 5
- PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2 " 6
- 7 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
- PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1³/₄" 8
- SIDEWALK, CURB AND GUTTER REMOVAL AND REPLACEMENT R (LOCATION AS DIRECTED BY THE ENGINEER)

FILE NAME =	USER NAME = hamptoned	DESIGNED -	REVISED -			EVISTIN			TYPICAL SE	ECTIONS	F.A.P	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\hamptoncd\d	1345019\D134513-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						RD STREET	348 [31	30(A&B) & 2324.3]RS-3	соок	42 8
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		IL. IVIL. IS			55 10 05	ND STREET			CONTRAC	CT NO. 60W61
Default	PLOT DATE = 10/31/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED. A		

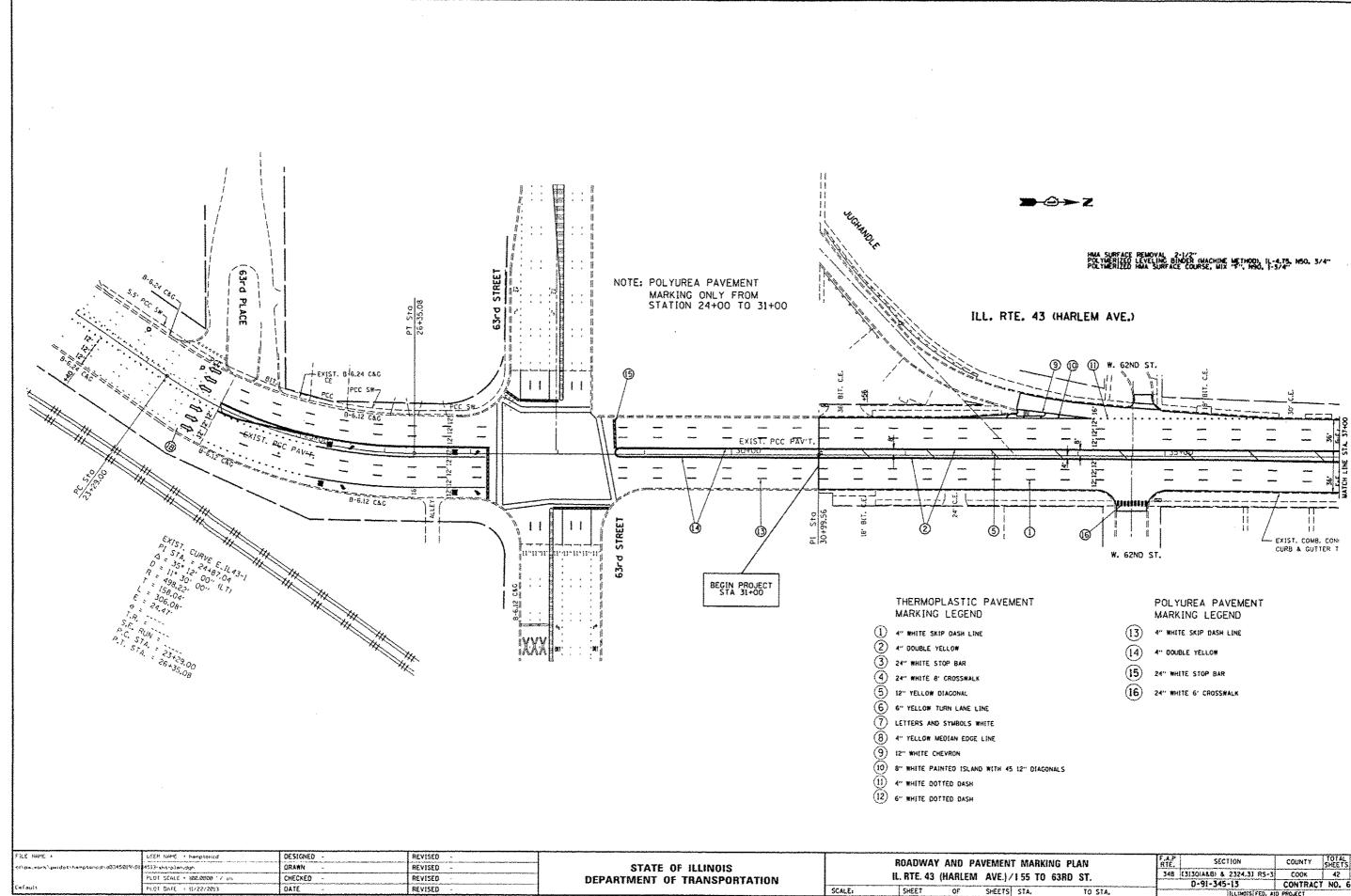


<u>LEGEND:</u>

- EXIST. P.C.C. PAVEMENT, ±9" EXIST. HOT-MIX ASPHALT SURFACE AFTER MILLING, ±3" 2 EXIST. COMB. CONC. CURB AND GUTTER, TYPE B-6.12 3 EXIST. P.C.C. SIDEWALK 4 EXIST. STABILIZED SUB-BASE 5 PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2 " 6 7) PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
 - PROP. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1³/₄" 8
 - R SIDEWALK, CURB AND GUTTER REMOVAL AND REPLACEMENT (LOCATION AS DIRECTED BY THE ENGINEER)

FILE NAME =	USER NAME = hamptoncd	DESIGNED -	REVISED -			EXISTING			vD
c:\pw_work\pwidot\hamptoncd\d0345019\D1	84513-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	1	RTE. 43			
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1			AVL.// I	55
Default	PLOT DATE = 10/31/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	

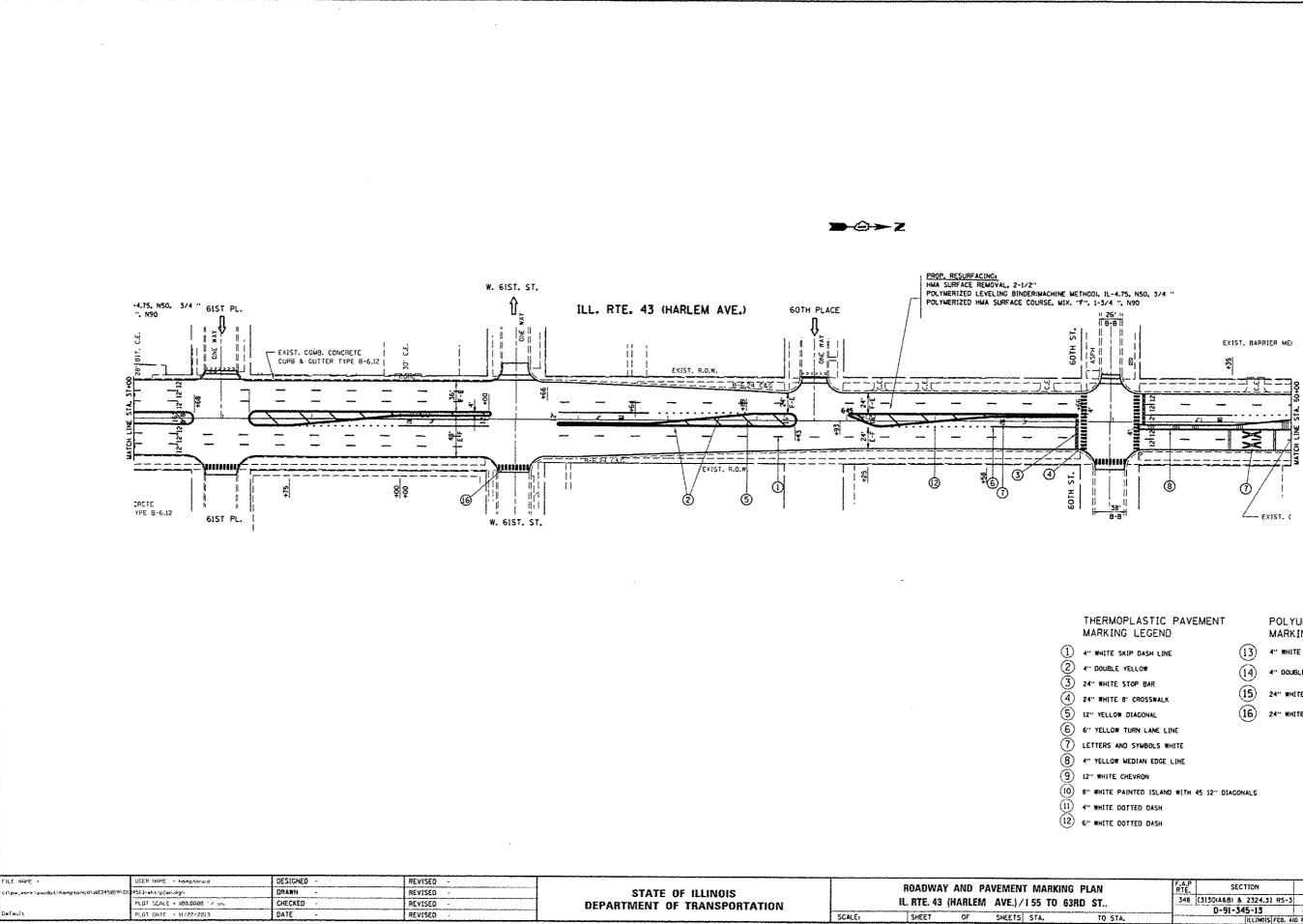
TYPICAL SECTIONS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55 TO 63RD STREET	348	[3130(A&B) & 2324.3]RS-3	COOK	42	9
			CONTRACT	NO. 6	OW61
S STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



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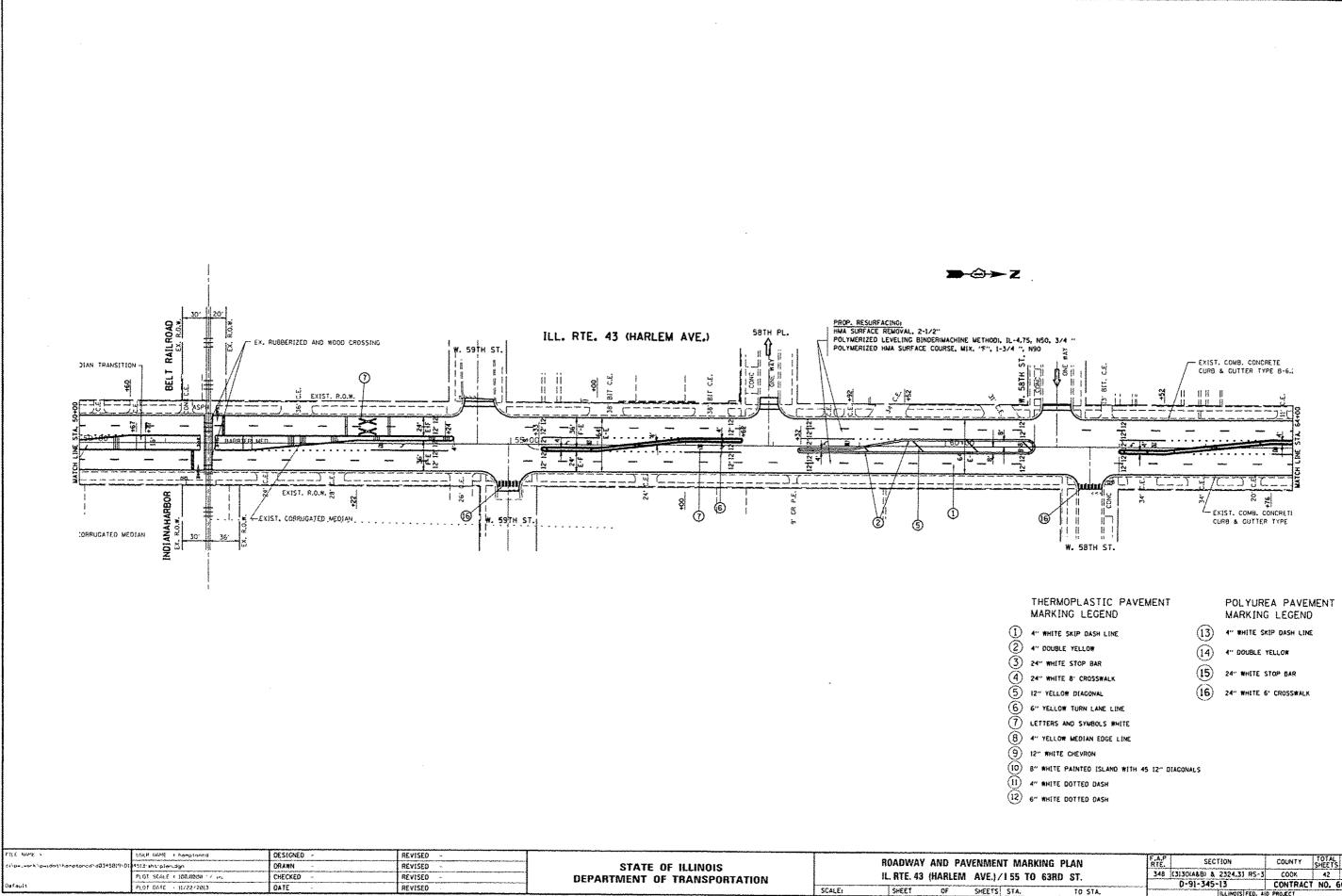
TARKING PLAN	F.A.P SECTION	COUNTY TOTAL SHEET NO.			
5 TO 63RD ST.	348 (3130(A&B) & 2324.31 D-91-345-13	RS-3 COOK 42 10 CONTRACT NO. 60W61			
A. TO STA.	ILLINOIS FED. AID PROJECT				



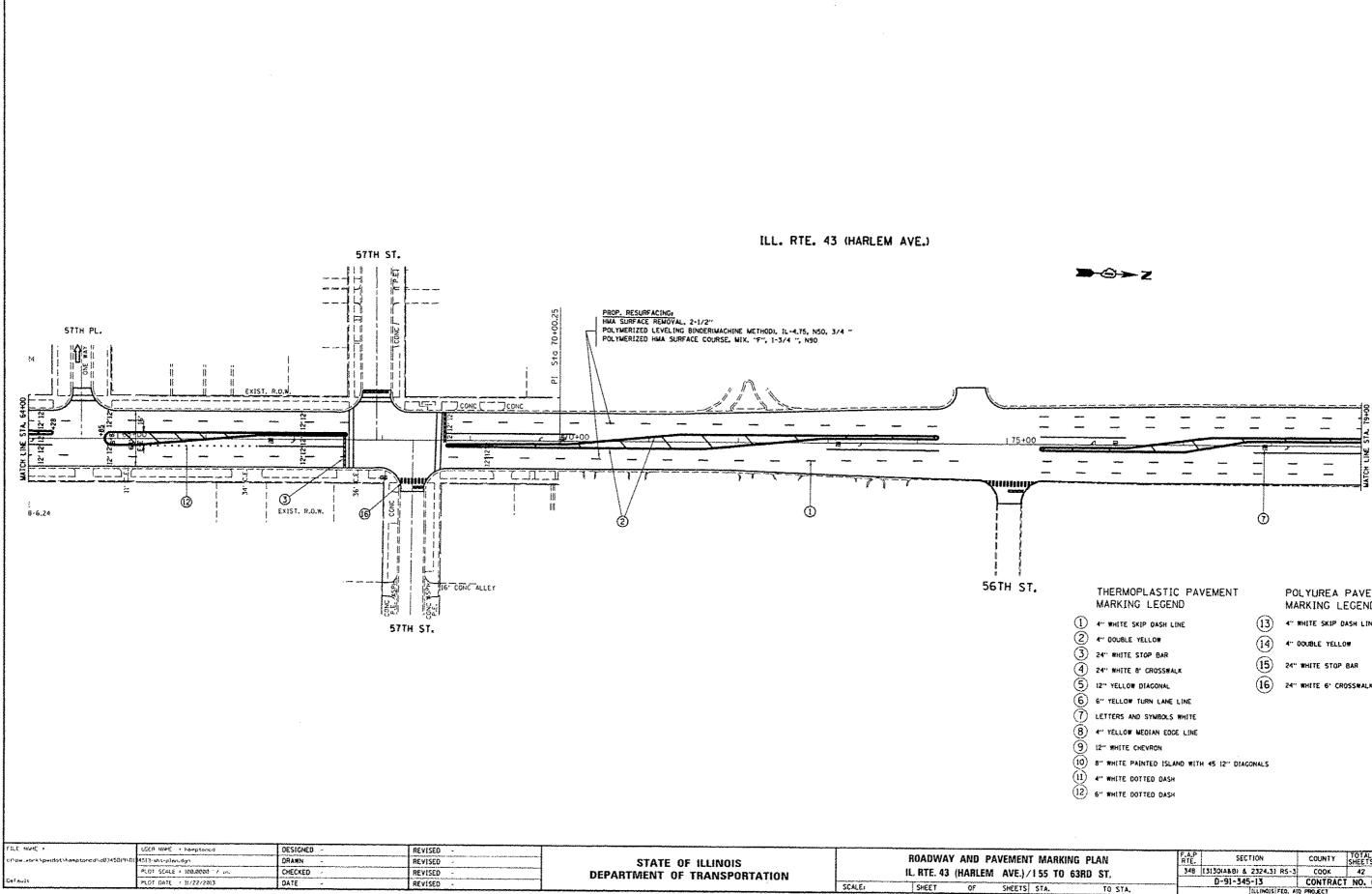
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	THERMOPLASTIC PAVEMENT		POLYUREA PAVEMENT
	MARKING LEGEND		MARKING LEGEND
	4" WHITE SKIP DASH LINE	(13)	4" WHITE SKIP DASH LINE
(2)	4" DOUBLE YELLOW	(14)	4" DOUGLE YELLOW
3	24" WHITE STOP BAR	S	
(4)	24" #HITE 8' CROSSWALK	(15)	24" WHITE STOP BAR
5	12" YELLOW DIAGONAL	(16)	24" WHITE 6' CROSSWALK
6	6" YELLOW TURN LANE LINE		
Õ	LETTERS AND SYMBOLS WHITE		
(8)	4" YELLOW MEDIAN EDGE LINE		
9	12" WHITE CHEVRON		
(10)	8" WHITE PAINTED ISLAND WITH 45 12" DIA	GONALS	
	4" WHITE DOTTED DASH		
(12)	6" WHITE DOTTED DASH		

ARKING PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TO 63RD ST.,	348	(3130(A&B) & 2324.31 RS-3 D-91-345-13	COOK	42	11
. TO STA.		U-31-343-13		1 10. 0	V#01



RKING PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
O 63RD ST.	348	(31301A&B) & 2324.31 RS-3	COOK	42	12
		D-91-345-13	CONTRACT	NO. 6	0%61
TO STA.		ILLINOIS FED. A	O PROJECT		



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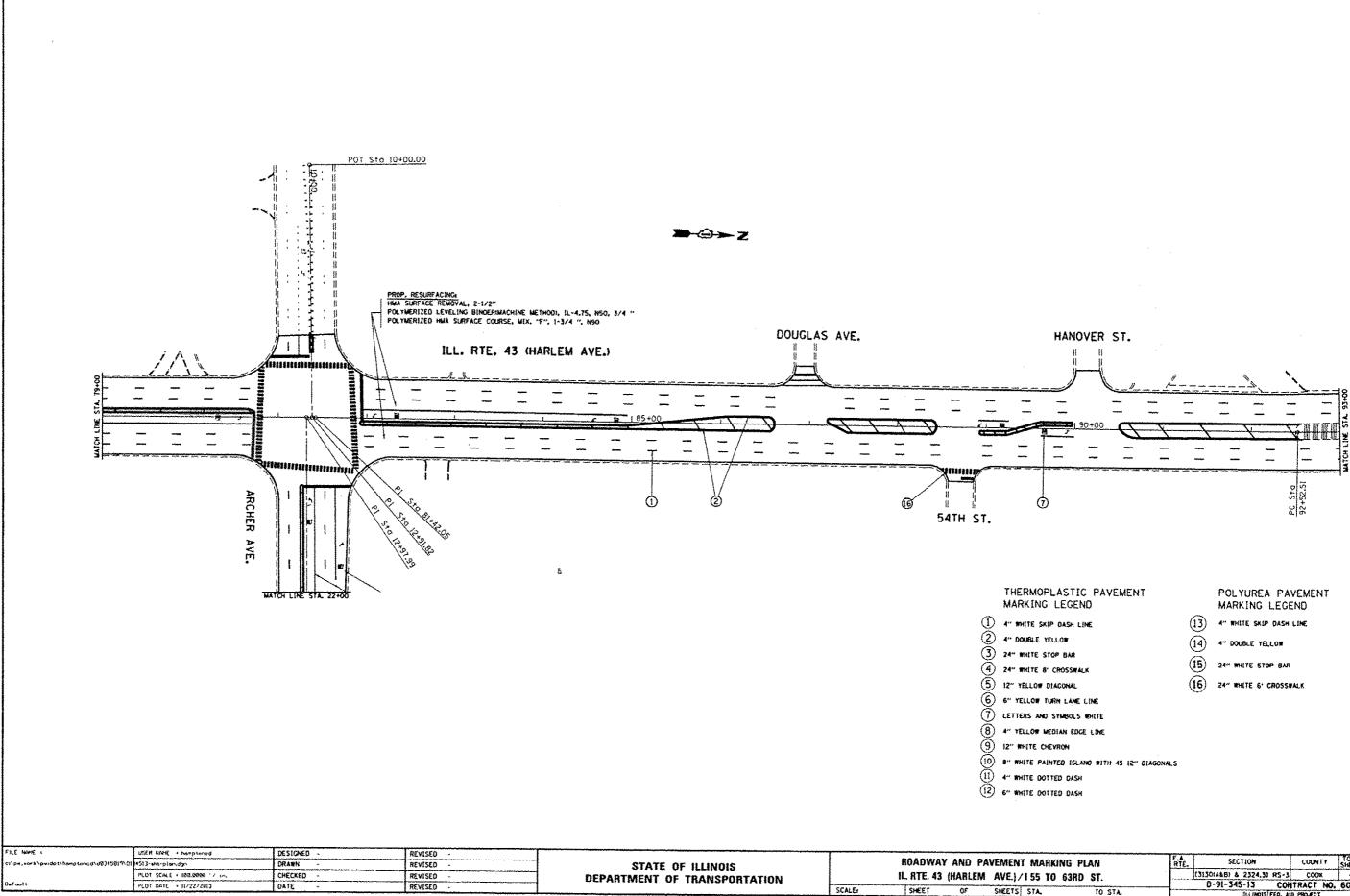
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THERMOPLASTIC PAVEMENT		POLYUREA PAVEMENT
MARKING LEGEND		MARKING LEGEND
Â	\sim	
4" WHITE SKIP DASH LINE	(13)	4" WHITE SKIP DASH LINE
2 4" DOUBLE YELLOW	(in)	4" DOUBLE YELLOW
3 24" WHITE STOP BAR	(14)	* VVOLE (ELLU#
ă	(15)	24" WHITE STOP BAR
4) 24" WHITE 8" CROSSWALK	weight we	and here of the state of the state
5 12" YELLOW DIAGONAL	(16)	24" WHITE 6' CROSSWALK
6 6" YELLOW TURN LANE LINE		
() LETTERS AND SYMBOLS WHITE		
8 4" YELLOW WEDIAN EDGE LINE		
9 12" WHITE CHEVRON		
10 8" WHITE PAINTED ISLAND WITH 45 12" DIA	CONALS	
11 4" WHITE DOTTED DASH		
(12) 6" WHITE DOTTED DASH		

TO STA.	D-91-345-13		CONTRACT NO. 60W61		
TO 63RD ST.	348 [3130(ABB) & 2324.3] RS-	3 COOK	42 1	3	
ARKING PLAN	F.A.P RTE. SECTION	COUNTY	TOTAL SHE SHEETS NO	ÊT 5.	



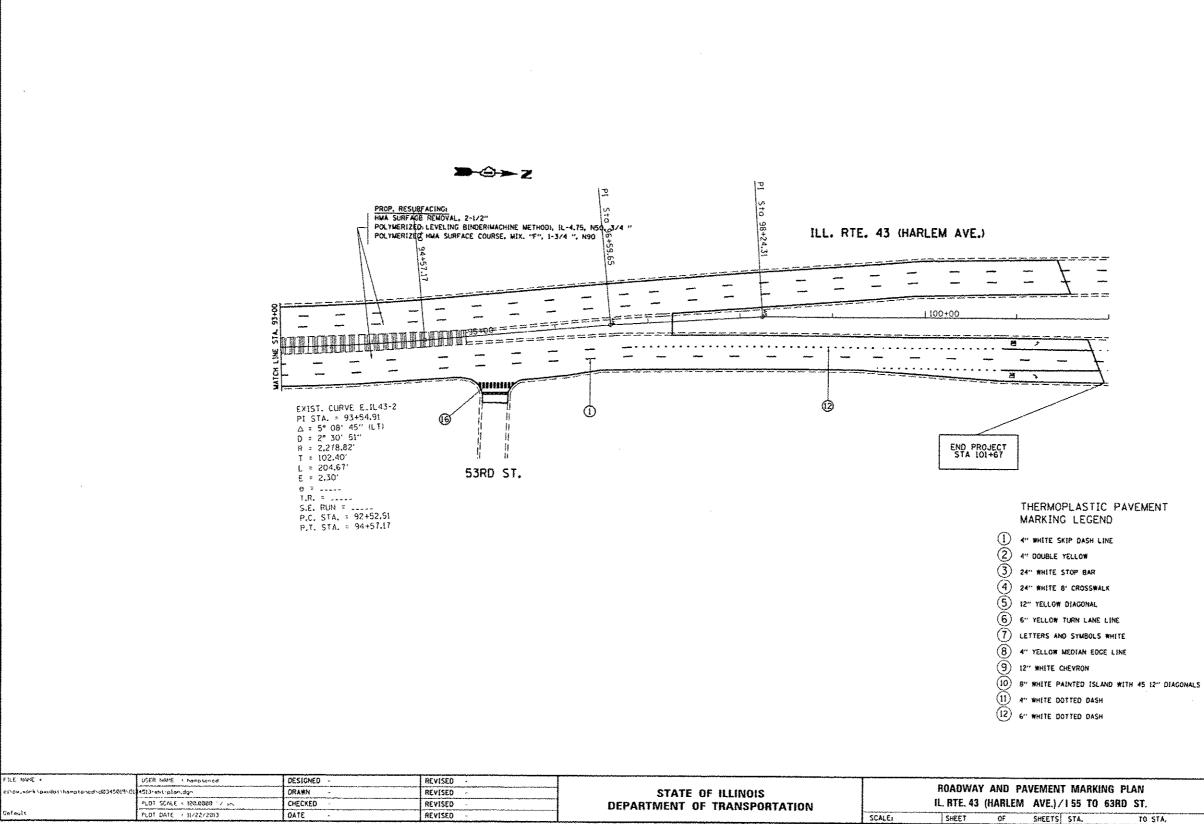
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ARKING PLAN	F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO,
TO 63RD ST.		(3130(A&B) & 2324.3) RS-3 D-91-345-13 CO		42 60¥61	14
. TO STA.	D-91-345-13 CONTRACT NO. 60W61				

IG LEGEND
SKIP DASH LINE
YELLOW
STOP BAR
8' CROSSWALK
V DIAGONAL
TURN LANE LINE
NO SYMBOLS WHETE
MEDIAN EDGE LINE
CHEVRON
AINTED ISLAND WITH 45 12" DIAGONALS
WITED DASH
NOTTED DASH

POLYUREA P	AVEMENT
MARKING LEG	GEND



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TO STA.	ILLINOIS FED. ALD PROJECT				
		D-91-345-13	CONTRACT NO. 60W61		
TO 638D ST.	348	[3130(A&B) & 2324.3) RS-3	COOK	42	15
RKING PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

(14)

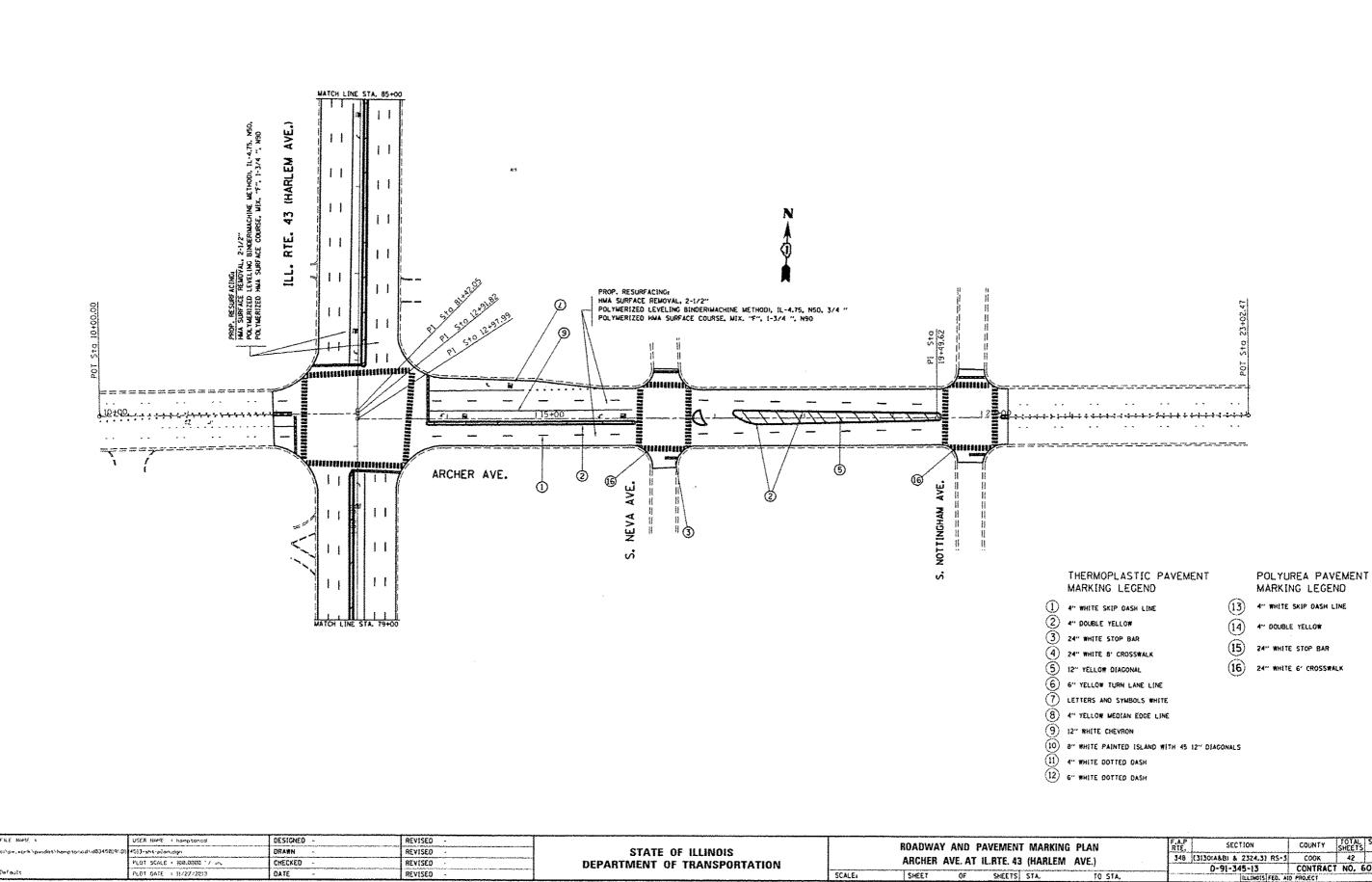
(15)

- POLYUREA PAVEMENT MARKING LEGEND (13) 4" WHITE SKIP DASH LINE

4" DOUBLE YELLOW

24" WHITE STOP BAR

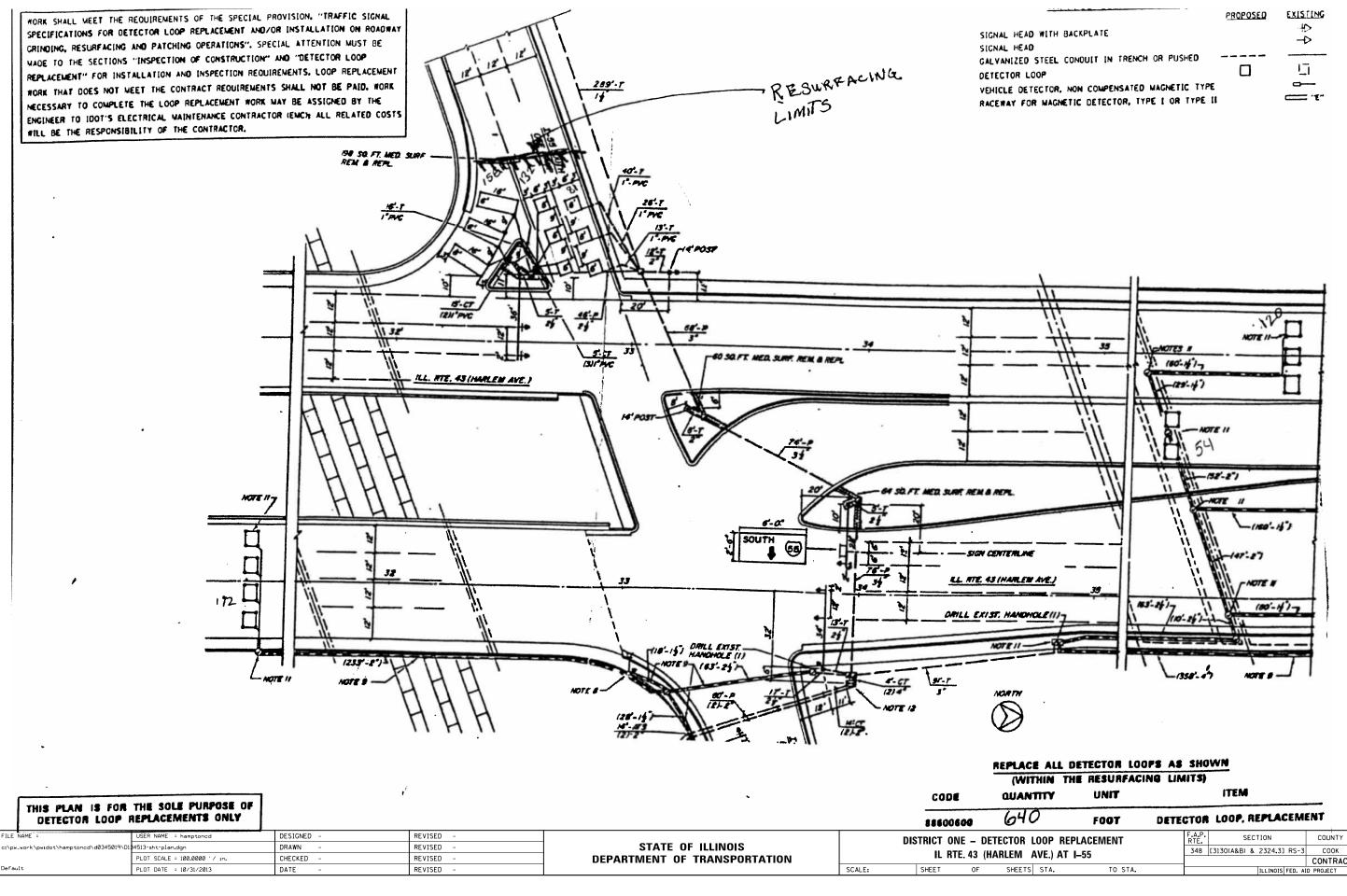
(16) 24" WHITE & CROSSWALK



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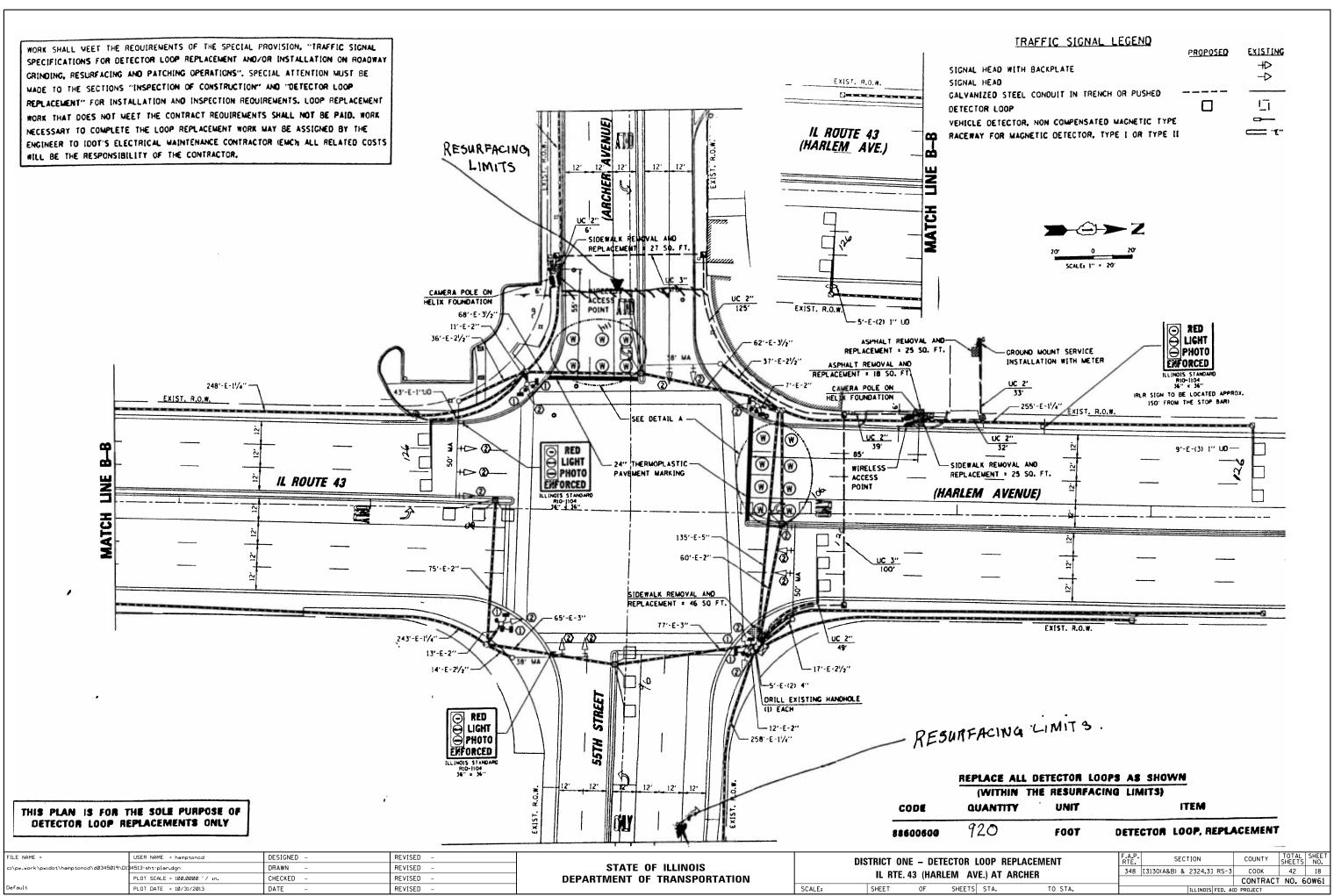
TO STA,		ILLINOIS FED. A	O PROJECT		
WILLING NULL		0-91-345-13	CONTRACT	NO. 1	50%61
ARLEM AVE.)	348	(3130(A&B) & 2324.3) RS-3	COOK	42	16
ARKING PLAN	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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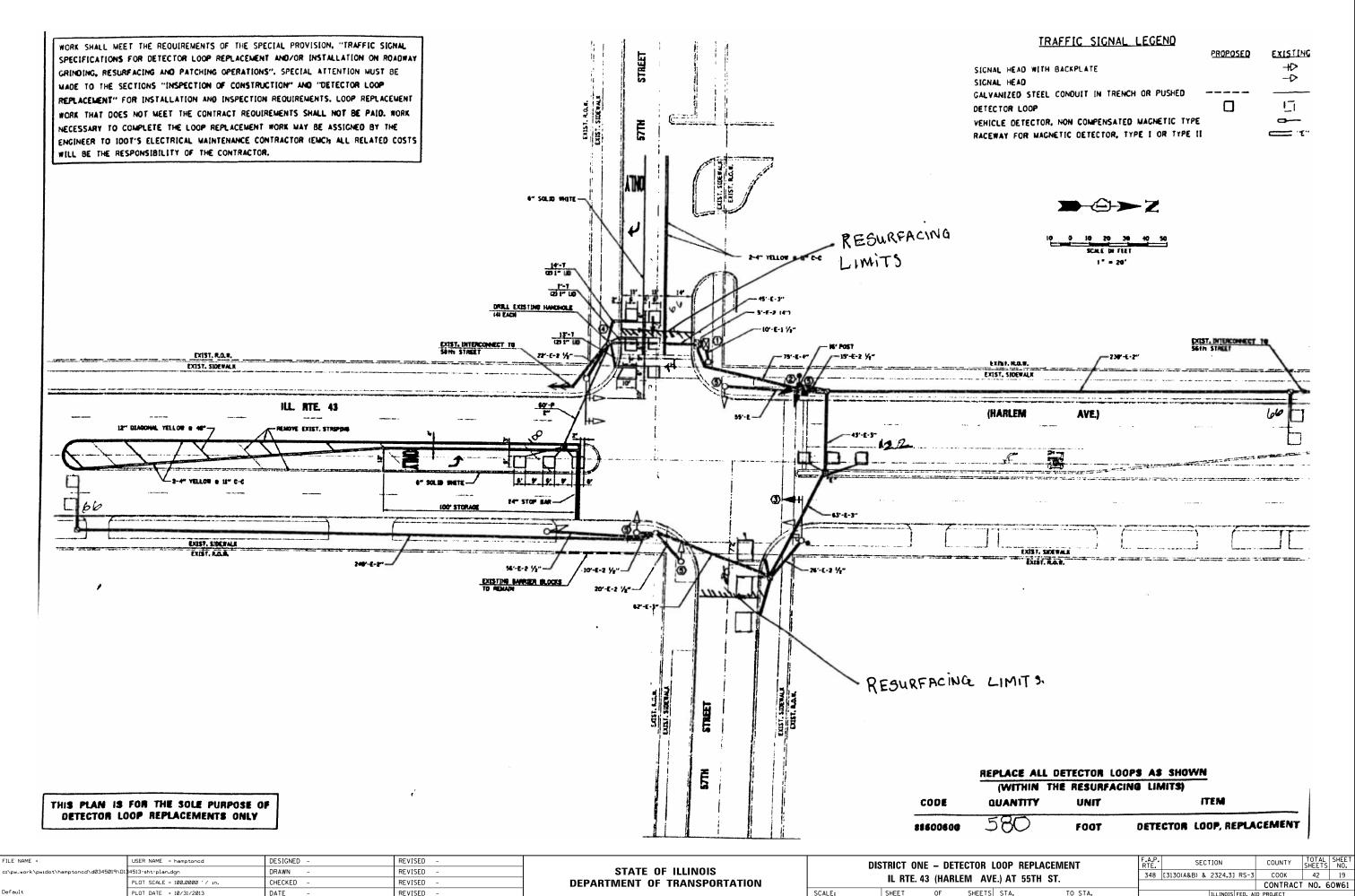
MARKING LEGEND		MARKING LEGEND
4" WHITE SKIP DASH LINE	(13)	4" WHITE SKIP DASH LINE
4" DOUBLE YELLOW	(14)	4" DOUBLE YELLOW
24" WHITE STOP BAR	\simeq	
24" WHITE 8' CROSSWALK	\odot	24" WHITE STOP BAR
12" YELLOW DIAGONAL	(16)	24" WHITE 6' CROSSWALK
6" YELLOW TURN LANE LINE		
LETTERS AND SYMBOLS WHITE		
4" YELLOW MEDIAN EDGE LINE		
12" WHITE CHEVRON		
8" WHITE PAINTED ISLAND WITH 45 12" DIAG	ONALS	
4" WHITE DOTTED DASH		
6" WHITE DOTTED DASH		
	4" WHITE SKIP OASH LINE 4" DOUBLE YELLOW 24" WHITE STOP BAR 24" WHITE & CROSSWALK 12" YELLOW DIAGONAL 6" YELLOW TURN LANE LINE LETTERS AND SYMBOLS WHITE 4" YELLOW MEDIAN EDGE LINE 12" WHITE CHEVRON 8" WHITE DAINTED ISLAND WITH 45 12" DIAG 4" WHITE DOTTED DASH	4" WHITE SKIP DASH LINE (13) 4" DOUBLE YELLOW (14) 24" WHITE STOP BAR (15) 24" WHITE STOP BAR (15) 24" WHITE 8' CROSSWALK (16) 6" YELLOW DIAGONAL (16) 6" YELLOW TURN LANE LINE LETTERS AND SYMBOLS WHITE 4" YELLOW MEDIAN EDGE LINE 12" WHITE CHEVRON 8" WHITE CHEVRON 8" WHITE DAINTED ISLAND WITH 45 12" DIAGONALS 4" WHITE DOTTED DASH



D WITH BACKPLATE	PROPOSED	EXISTING HD HD
STEEL CONDUIT IN TRENCH OR PUSHED		<u> </u>
TECTOR, NON COMPENSATED MAGNETIC TYPE IN MAGNETIC DETECTOR, TYPE I OR TYPE I		میں ۲۰ ت

ITHIN TI	HE RESURFACI	NG LIMITS)					
NTITY	UNIT		ITEM				
0	FOOT	DETECTOR	LOOP, RE	PLACEM	ENT		
LOOP RE	PLACEMENT	F.A.P. RTE.	SECT	FION	COUNTY	TOTAL SHEETS	SHEET NO.
		348	[3130(A0 D) 0	2324.3] RS-3	COOK	42	17
AVF) AT	-55	548	LUIDUARD) &	2324.31 1(3 3	COOK		
AVE.) AT	I –55	546	LJIJU(A&D) &	2024.03 113 5	CONTRACT	-	

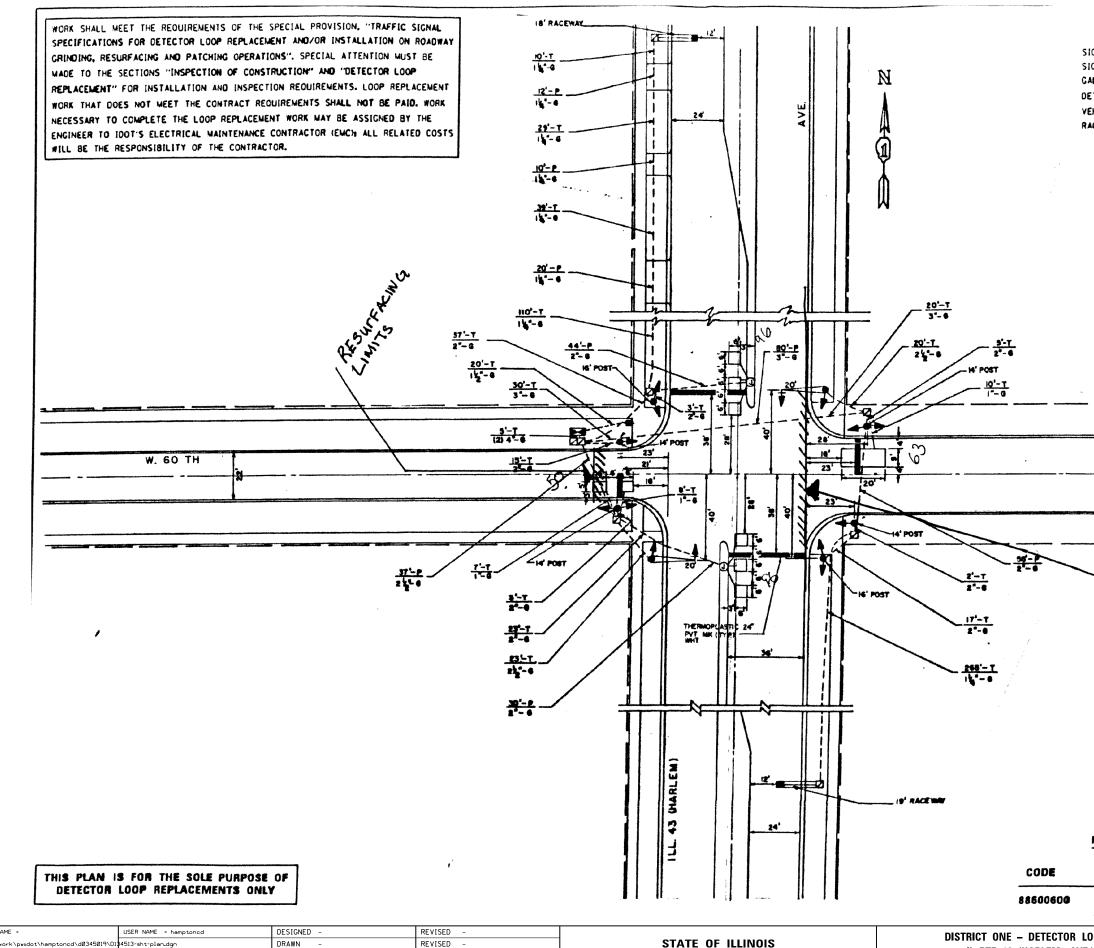




REVISED PLOT DATE = 10/31/2013 DATE

SHEET OF SHEETS STA.

TULINOIS FED ATD PROJECT



FILE NAME =	USER NAME = hamptoncd	DESIGNED -	REVISED -		DISTRICT ONE - DETECTOR LOOP REPLACEMENT					F.A.P.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\hamptoncd\d0345019\D1	4513-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						348 [313	30(A&B) & 2324.3] RS-3	соок	42 20
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION IL RTE. 43 (HARLEM AVE.) AT 60TH ST.					H 31.		CONTRACT N		T NO. 60W61
Default	PLOT DATE = 10/31/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

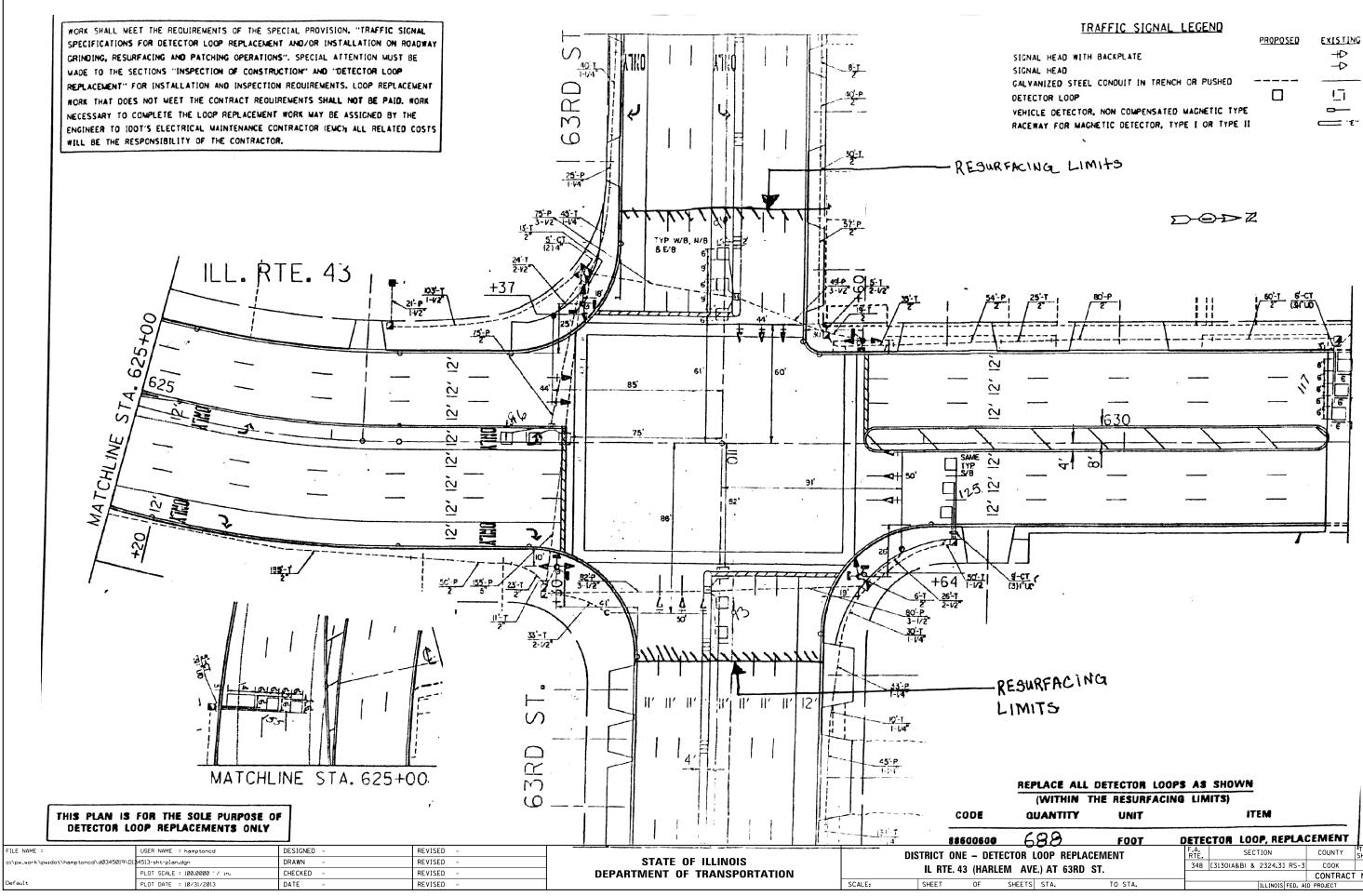
TRAFFIC SIGNAL LEGEND	PROPOSED	EXISTINC
GNAL HEAD WITH BACKPLATE GNAL HEAD		-₽ -P
ALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		<u> </u>
CHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE ACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		م ے '٤''

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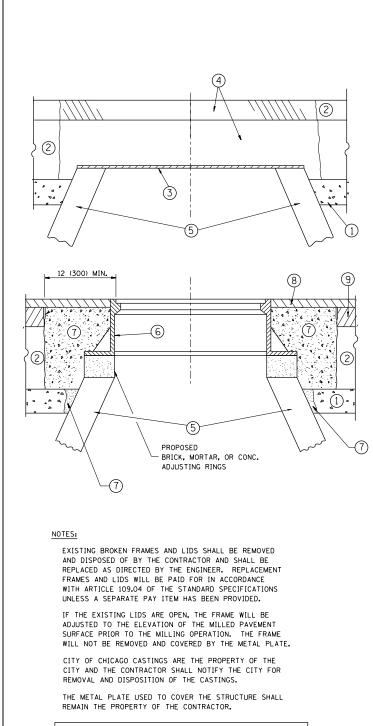
· RESURFACING

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

QUANTITYUNITITEM2.50FOOTDETECTORLOOP, REPLACEMENT



FPEACE ALL	DETECTOR LO	OPS AS	SHOW	N			
	HE RESURFAC						
QUANTITY	UNIT			ITEM			
588	FOOT	DETE	CTOR L	OOP, REPLA	CEMENT		
LOOP REPLAC	EMENT	F.A. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VE.) AT 63RD	ST.	348	[3130(A&B) & 2324.3] RS-3	COOK	42 NO. 6	21
TS STA.	TO STA.			ILLINOIS FED. A			



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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =	USER NAME = hamptoned	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04		DETAILS FOR	F.A.P. SECTION COUNTY SHEETS NO
c:\pw_work\p	widot\hamptoncd\d0345019\DistStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		348 [3130(A&B) & 2324.3]RS-3 COOK 42 22
	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) CONTRACT NO. 60W61
	PLOT DATE = 10/31/2013	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 FED. 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	(7) CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	-
(5)	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.

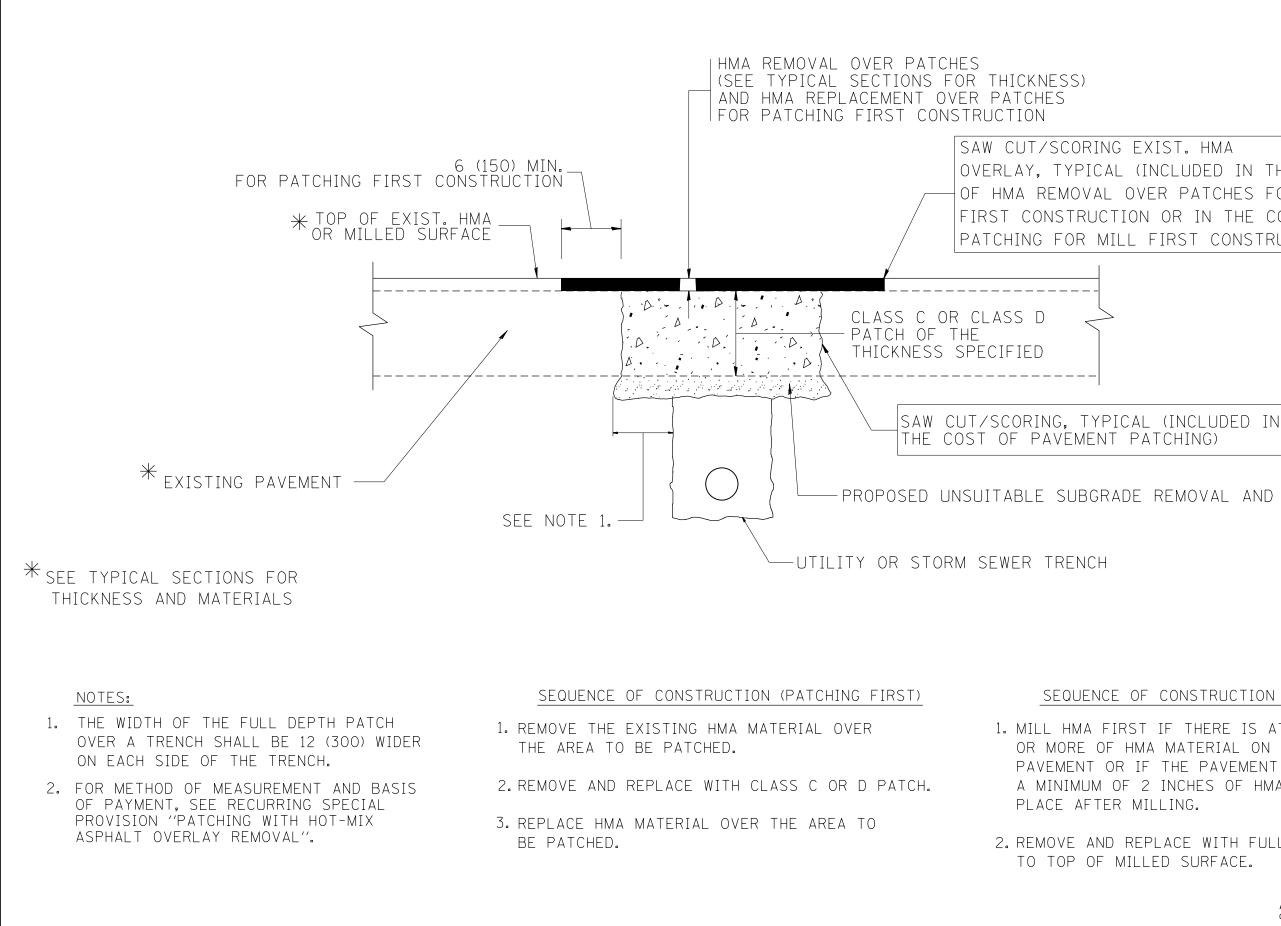
BASIS OF PAYMENT:

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 (MILL	IMETERS) UNLESS OTHERWISE SHOWN
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FILE NAME =	USER NAME = hamptoncd	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A.P.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\hamptoncd\d0345019\Di	itStd.dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				348 [3130	(A&B) & 2324.3]RS-3	СООК	42 23
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION			BD40	0–04 (BD–22)	CONTRAC	T NO. 60W61	
	PLOT DATE = 10/31/2013	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. AI	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).

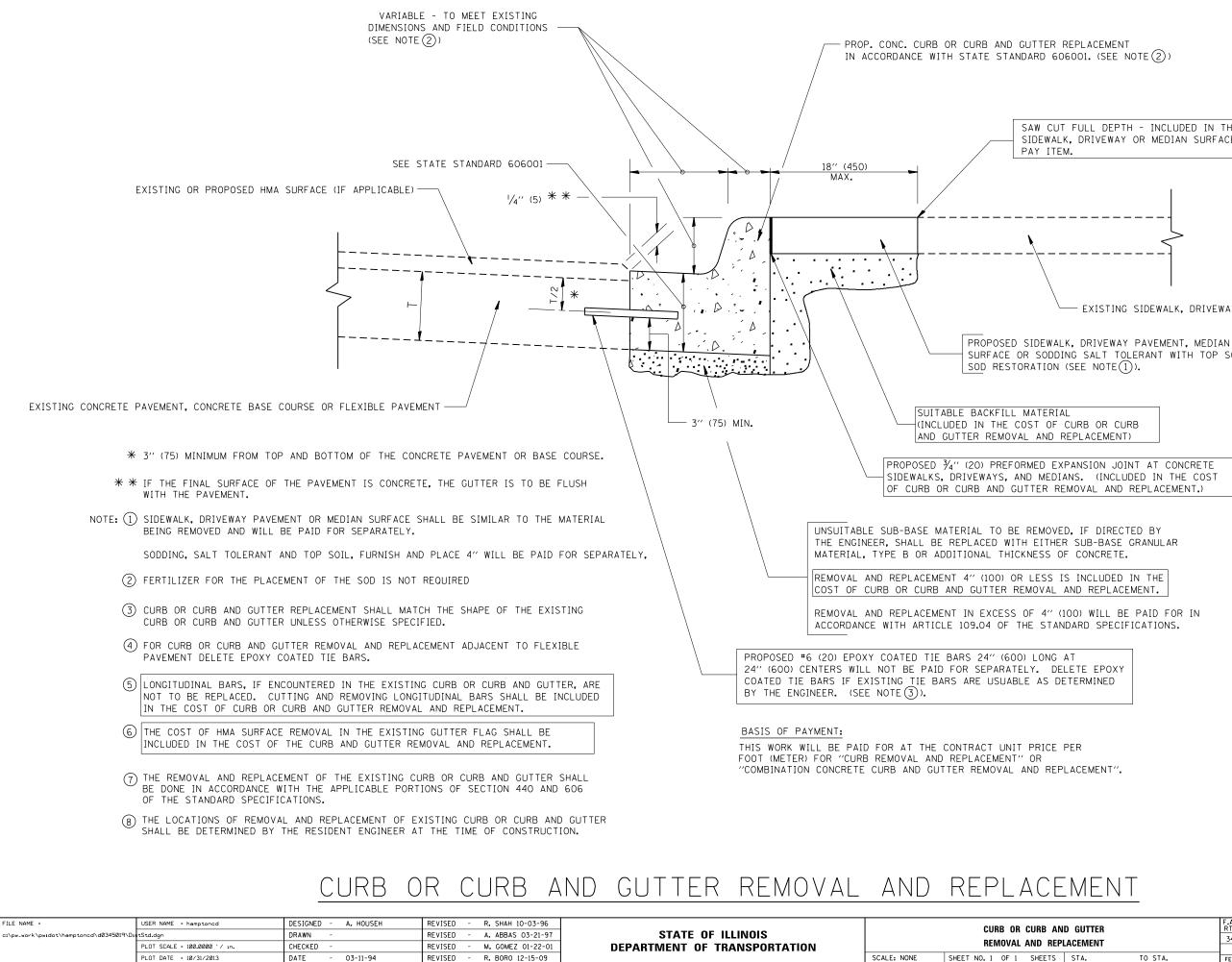
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

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.



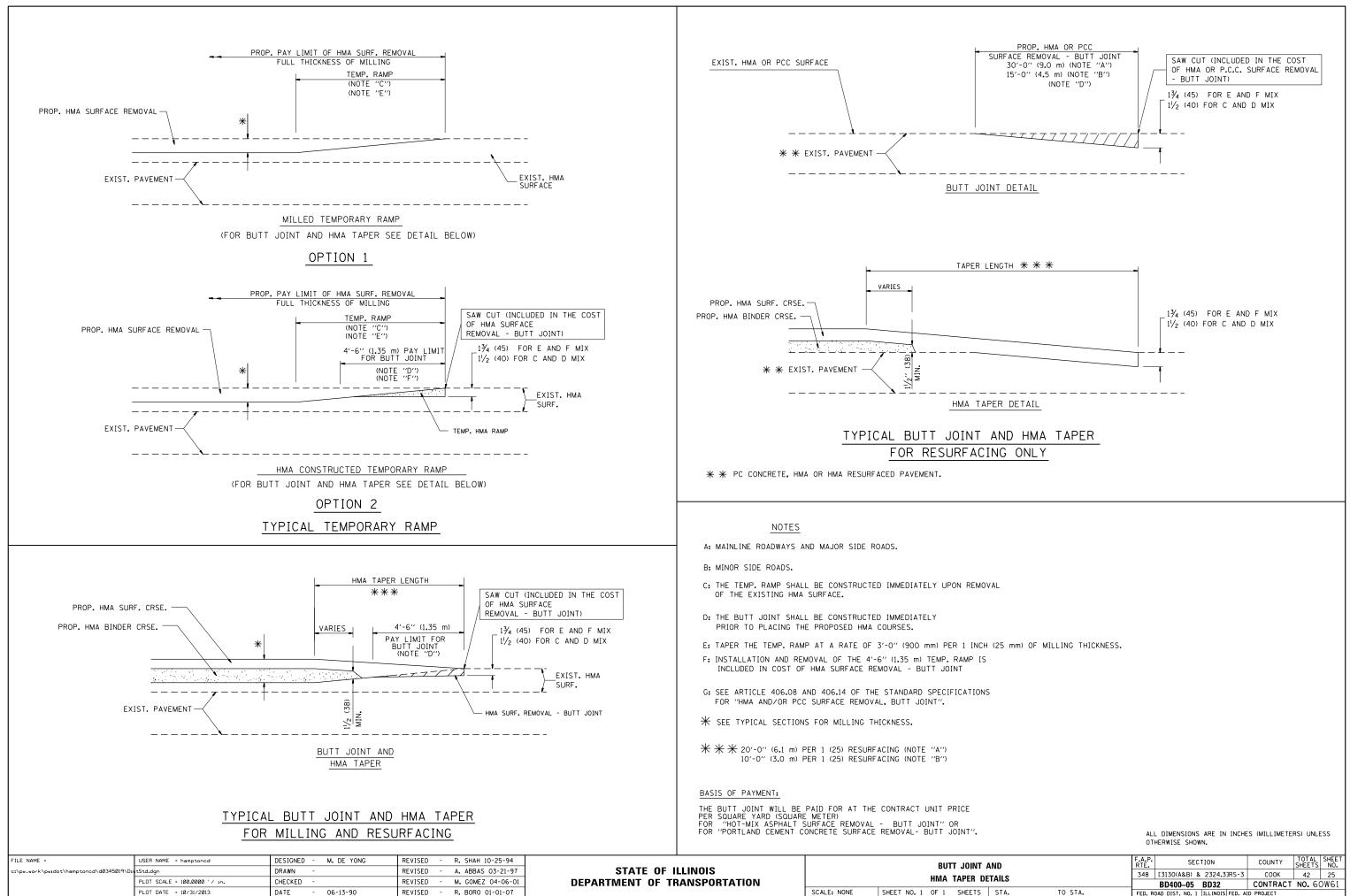
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

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

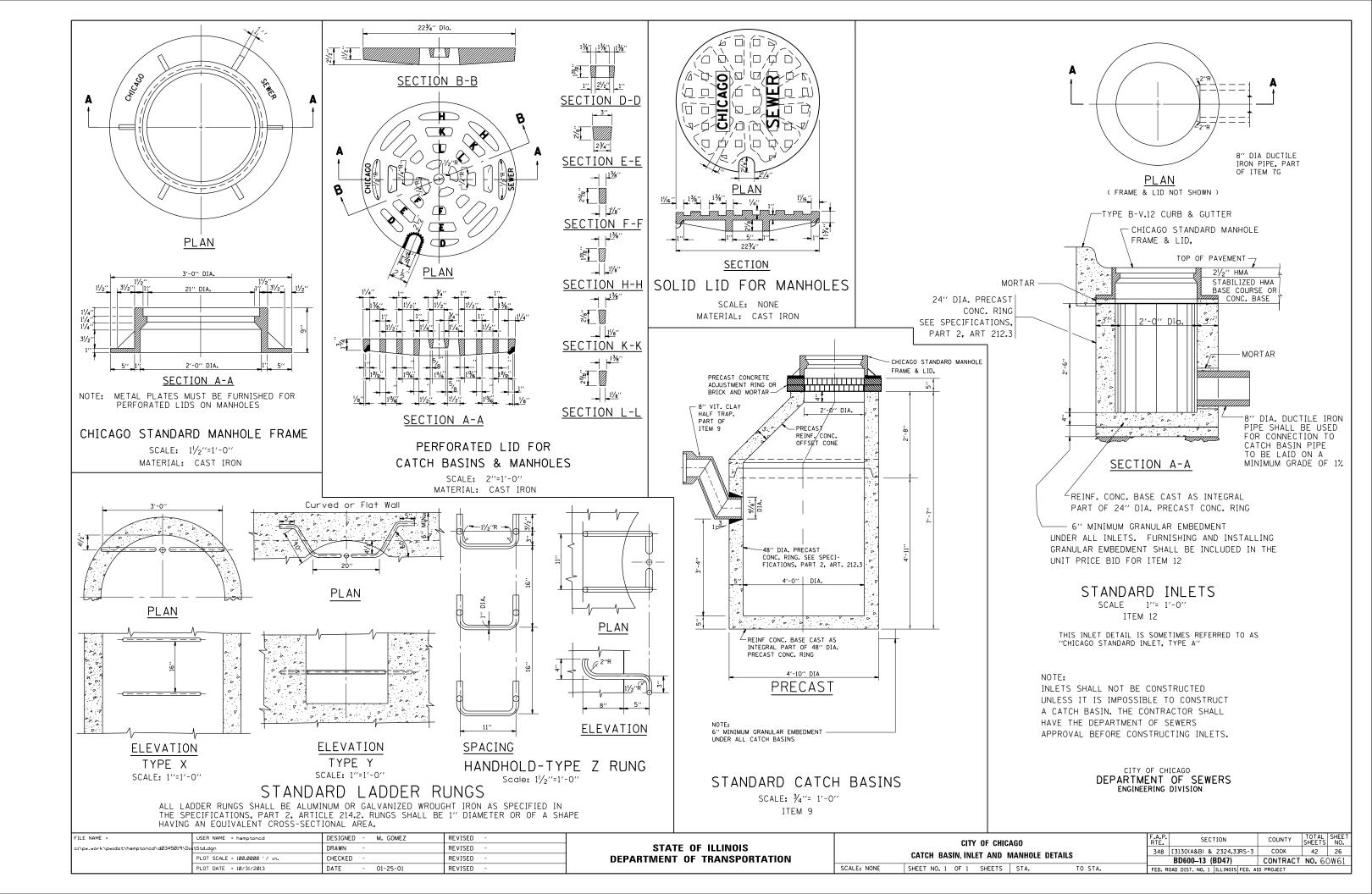
SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

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

ND GUTTER		F.A.P. RTE	SE	CTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		348	[3130(A&B)	& 2324.33RS	5-3	СООК	42	24		
			BD600-06	(BD-24)		CONTRACT	NO. 6	OW61		
	STA.	TO STA.	FED. R	OAD DIST. NO.	I ILLINOIS FEI	D. Aİ	D PROJECT			

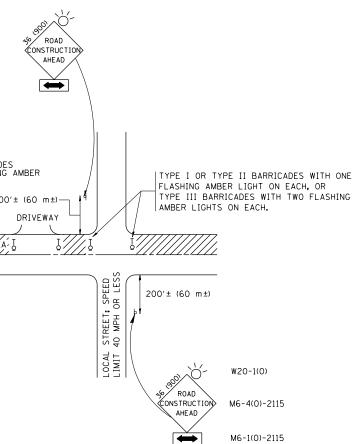


AND DETAILS		F.A.P. RTE	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
		348	[3130(A&B) &	2324.3]RS-3	СООК	42	25
		_	BD400-05	BD32	CONTRACT	NO. 60	DW61
STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	ID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR NOTES: A FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS ONE ROAD CONSTRUCTION AND AS DIRECTED BY THE CONSTRUCT ON AND FLAS ONE ROAD WITH A SPEED LIMIT OF 40 MPH (60 Km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: ONE ROAD CONSTRUCTION ANEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAS MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY 200' (50 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY 200' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE MAIN ROUTE. DIEL CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTE		TYPE III BARRICADE WITH TWO FLASHING LIGHTS ON EACH. 200
 NOTES: A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS I. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION. 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE. b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. b) THE CLOSED PORTION. 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL 		NSTRUCTION
 A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS I. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: O) ONE ROAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE. D) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: O) ONE ROAD CONSTRUCTION AHEAD SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUTE. D) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. D) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL 	TRAFFIC CONTROL AND PROT	ECTION FOR
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BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION. 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL	FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m)	
SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL	BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CRO	
	3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW ((M6-1) SHALL

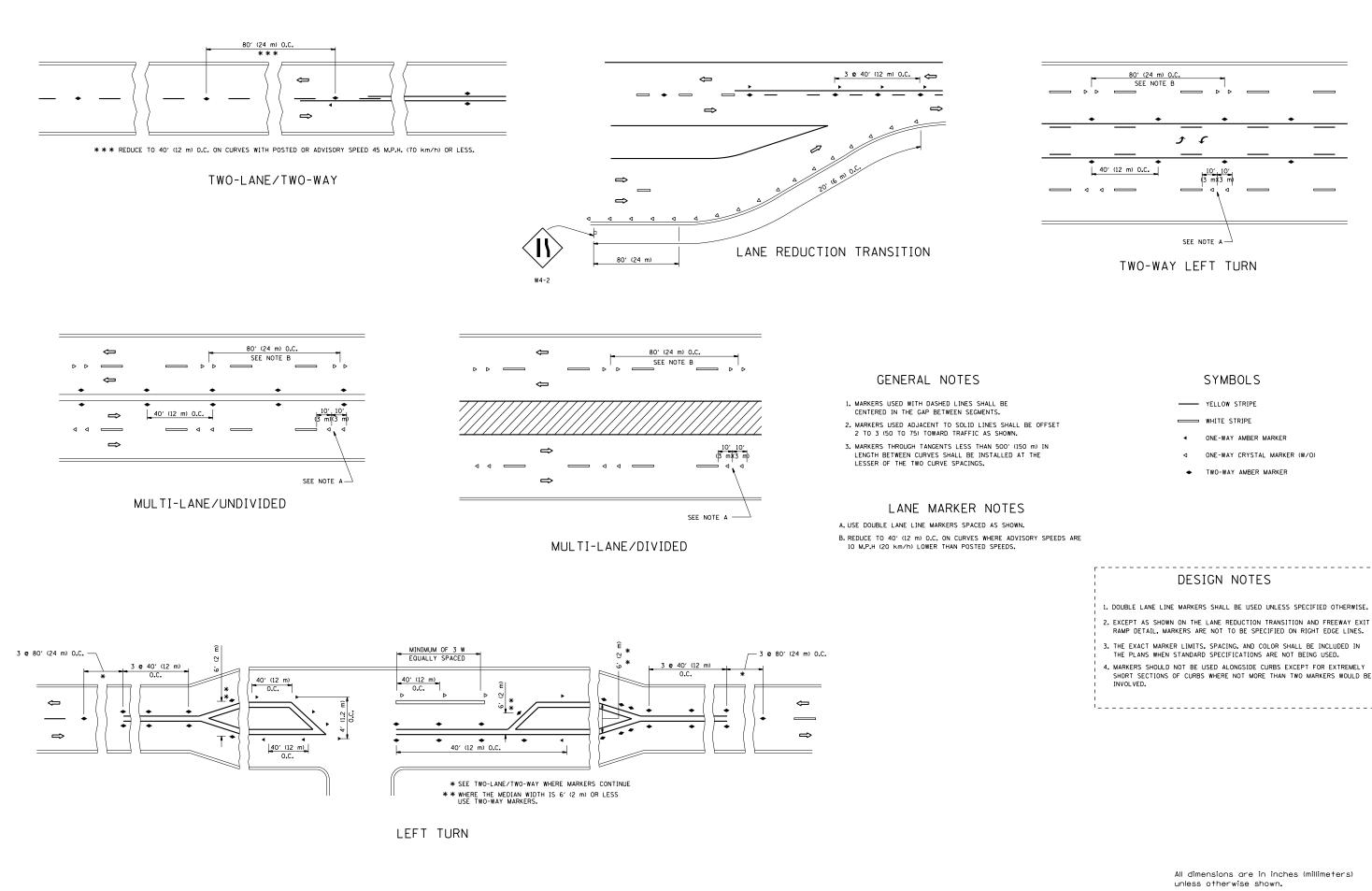
FILE NAME =	USER NAME = hamptoned	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95			TRAFFIC CONTROL AND PROTECTION FOR	F.A.P.	SECTION	COUNTY TOT	TAL SHEET
c:\pw_work\pwidot\hamptoncd\d0345019\D	istStd.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96	STATE OF ILLINOIS			348 [3130(A&B) & 2324.33RS-3	COOK 42	2 27
	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 0W61
	PLOT DATE = 10/31/2013	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	



SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

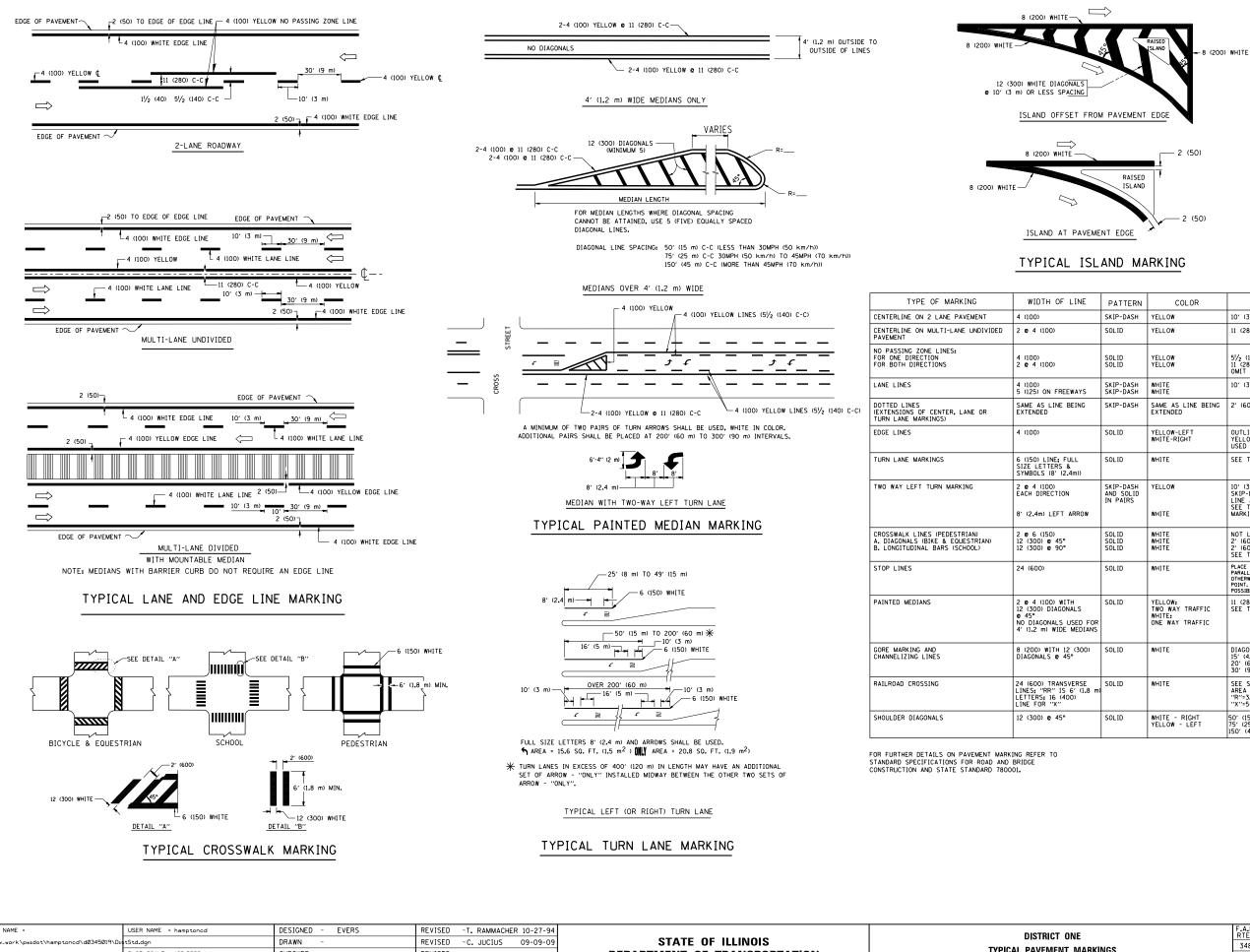
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY: USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL 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.



F	LE NAME =	USER NAME = hamptoncd	DESIGNED - REV	VISED -	- T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	F.A.P. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c	\pw_work\pwidot\hamptoncd\d0345019\Di	tStd.dgn	DRAWN - REV	VISED -	-T. RAMMACHER 03-12-99	STATE OF ILLINOIS		[3130(A&B) & 2324.3]RS-3	СООК	42 28		
		PLOT SCALE = 100.0000 ' / in.	CHECKED - REV	VISED -	T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	KAISED	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRAC	T NO. 60W61
		PLOT DATE = 10/31/2013	DATE - REV	VISED -	- C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT	

2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



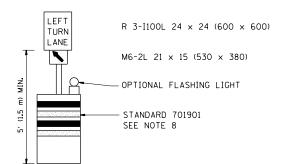
FILE NAME =	USER NAME = hamptoncd	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94			DISTRICT ON	F		F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\pwidot\hamptoncd\d0345019\	DistStd.dgn	DRAWN -	REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS					348 [3	130(A&B) & 2324.3JRS-3	СООК	42 29
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS		_	TC-13	CONTRAC	T NO.60W61		
	PLOT DATE = 10/31/2013	DATE - 03-19-90	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. AID) PROJECT	

LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	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
ULL & .4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N 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 CROSSMANN, IF PRESENT. OTHERWISE, PLACE AT DESINED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	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))
VERSE 6' (1.8 m) 00)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=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))

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

	CONFLICTING PAVEMENT MARKING REMOVAL	WHITE REFLE MARKING TAP	
		NEDIAN	
			4. THIS A AND TH LANE'' 5. THESE
		LEGEND	6.LONGIT
		WORK AREA	7. FORM 8. IF A C NCHRP THE B
		LANE OPEN TO TRAFFIC	9. TRAFFI SHALL ITEMS.
		TYPE I OR II BARRICADE WITH	1.5
	H	STEADY BURN LIGHT	
	Q	DRUM WITH STEADY BURN LIGHT DRUM WITH SIGN (WITH OPTIONAL FLASHING	
	۲	LIGHT) SEE DETAIL	
	н	TYPE I OR II CHECK BARRICADE WITH FLAS	
STATE OF I	LLINOIS	TRAFFIC CONTROL AND P	RUIECTION

FILE NAME =	USER NAME = hamptoncd	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09			TRAFFIC CONTROL AND PROTEC	TION AT THRN BAVS	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\hamptoncd\d0345019\Di	itStd.dgn	REVISED - A. HOUSEH 11-07-95		STATE OF ILLINOIS	(TO REMAIN OPEN TO TRAFFIC)		348	[3130(A&B) & 2324.3]RS-3	СООК	42 30	
	PLOT SCALE = 100.0000 '/ in.	REVISED - A. HOUSEH 10-12-96	REVISED -	DEPARTMENT OF TRANSPORTATION				TC-14	CONTRACT	r NO. 60W61	
	PLOT DATE = 10/31/2013	REVISED -T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. R	ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	



ED PAV'T

ZED PAV'T

GENERAL NOTES

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

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

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

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

CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

ITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

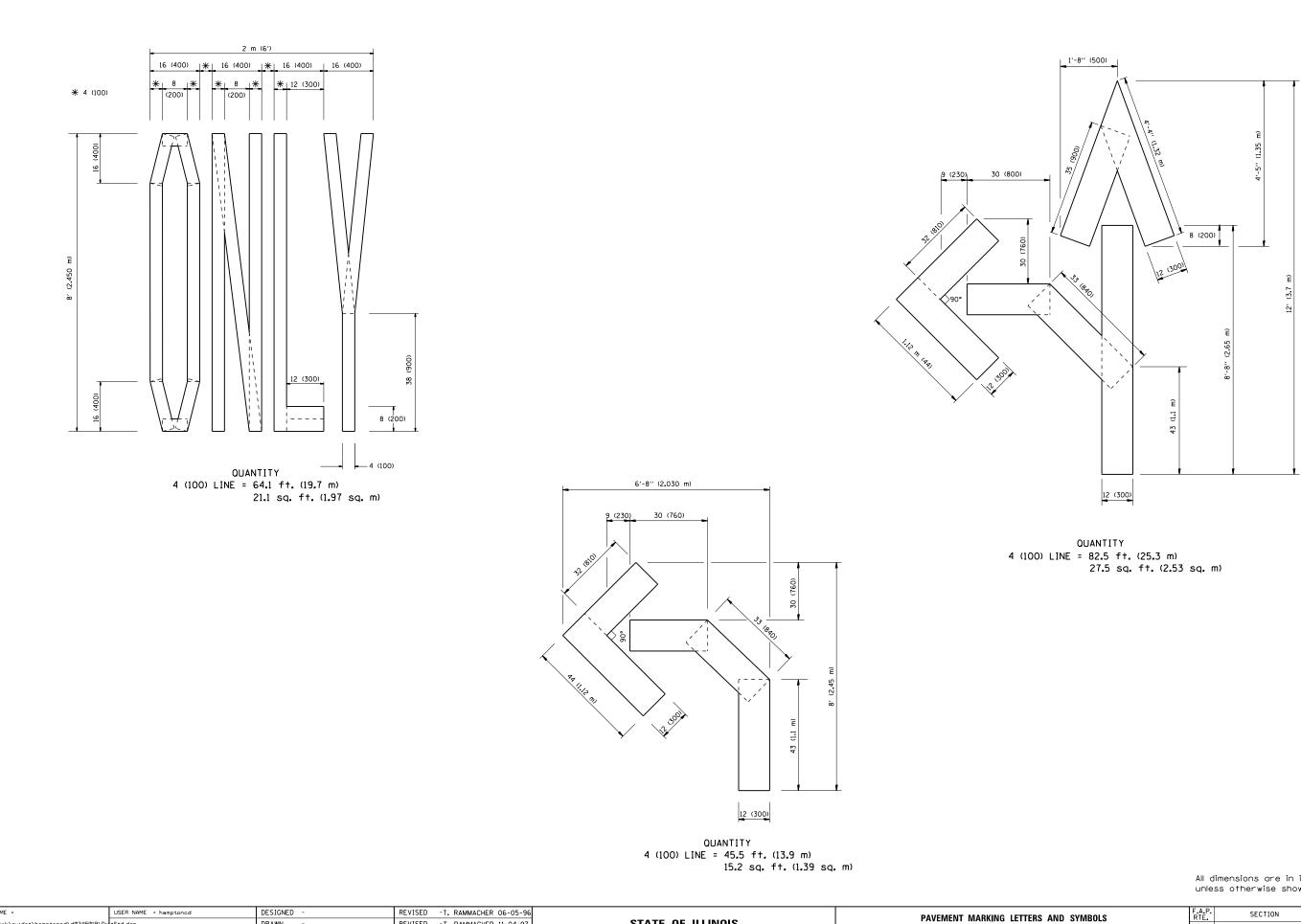
OPER 725 IS REQUIRED.

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

FIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) L BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR 5.

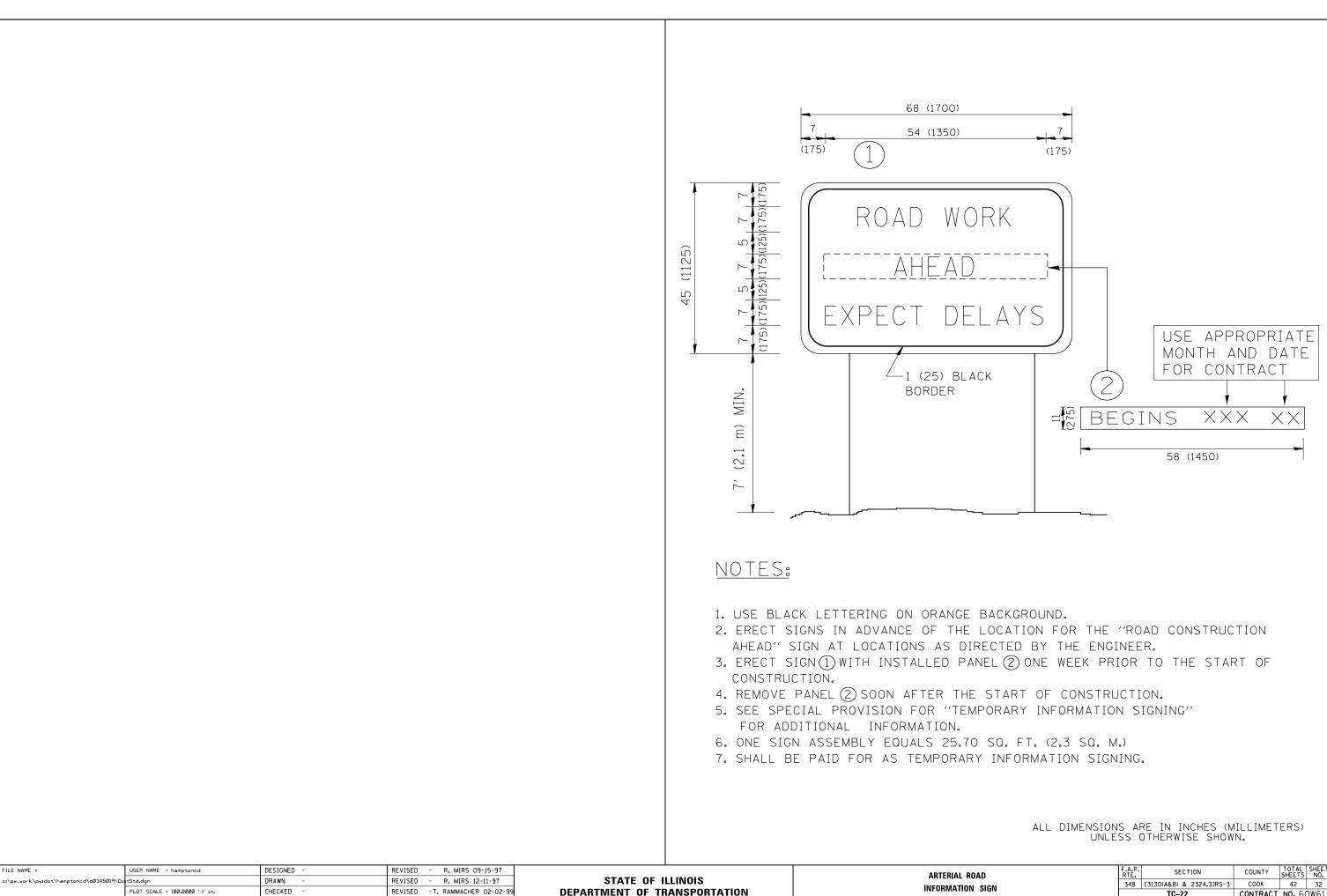
> All dimensions are in inches (millimeters) unless otherwise shown.

GHT



FILE NAME =	USER NAME = hamptoncd	DESIGNED -	REVISED -T. RAMMACHER 06-05-96		PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. SECTION	COUNTY TOTAL SHEET
c:\pw_work\pwidot\hamptoncd\d0345019\D	stStd.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97	STATE OF ILLINOIS	FOR TRAFFIC STAGING	348 [3130(A&B) & 2324.3]RS-3	6 COOK 42 31
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -T. RAMMACHER 03-02-98	DEPARTMENT OF TRANSPORTATION		TC-16	CONTRACT NO. 60W61
	PLOT DATE = 10/31/2013	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT

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

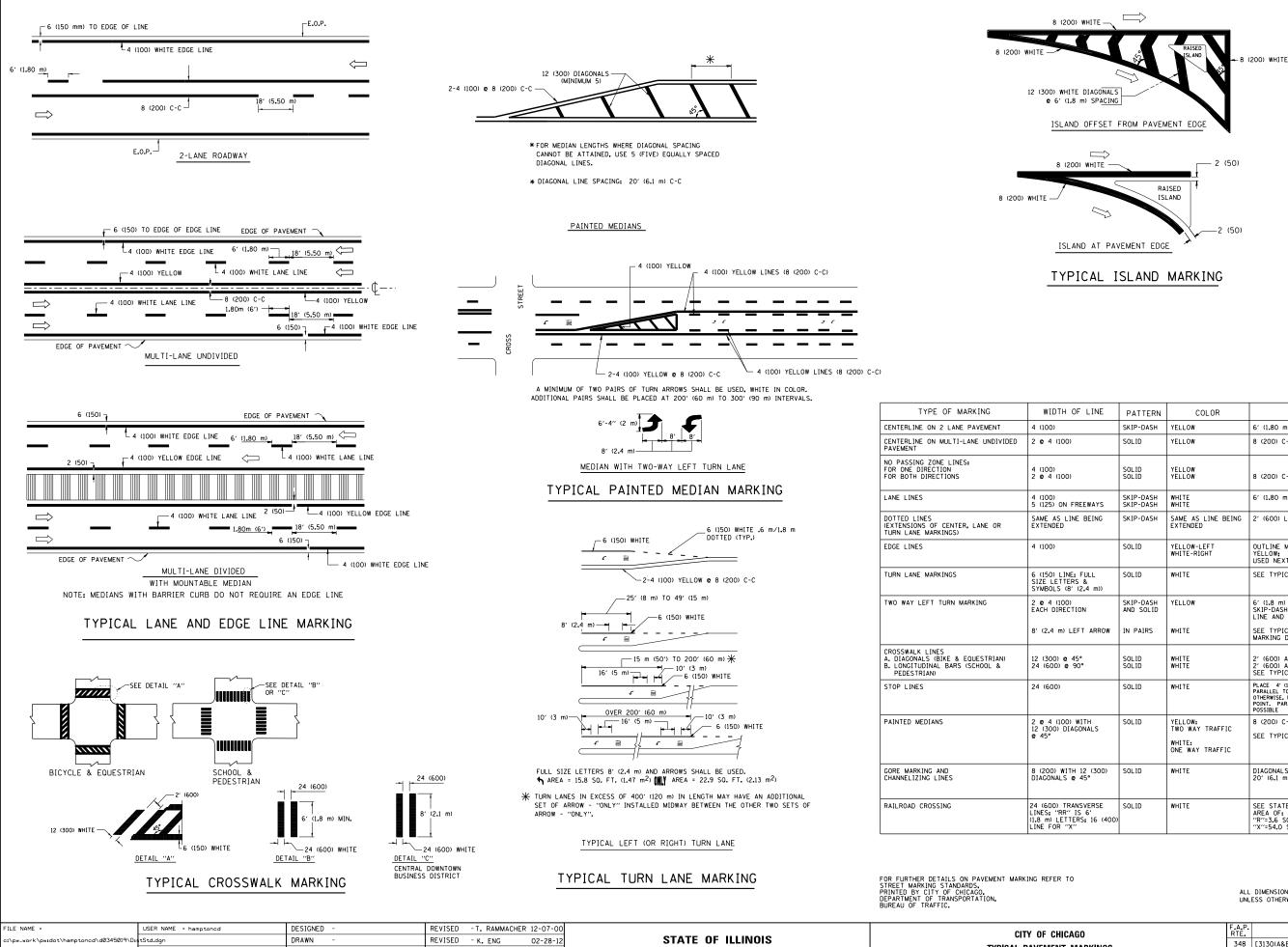


PLOT DATE = 10/31/2013

DATE

REVISED - C. JUCIUS 01-31-07

ROAD N SIGN				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				[3130(A&B) & 2324.3]RS-3	СООК	42	32
14	N SIGN			TC-22	CONTRACT	NO. 60	DW61
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

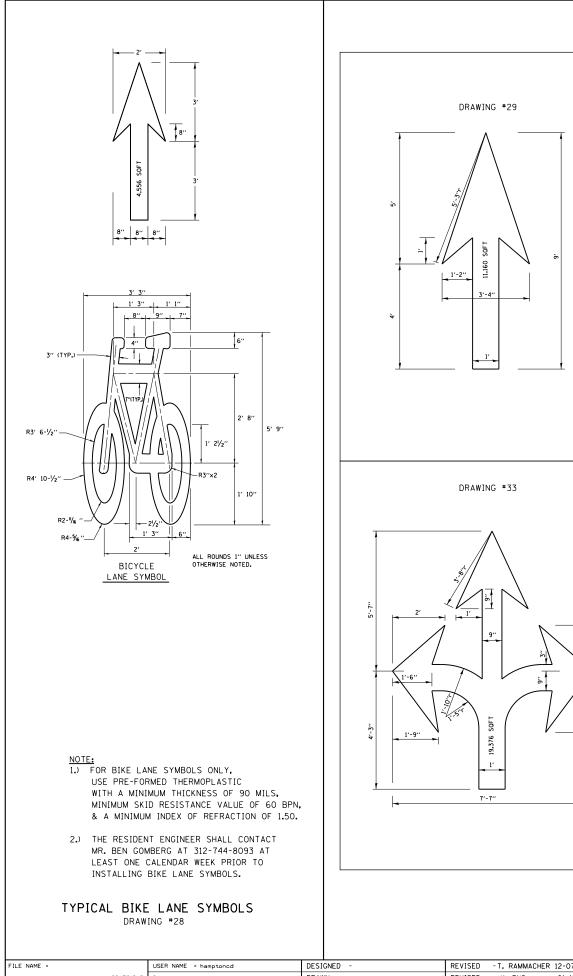


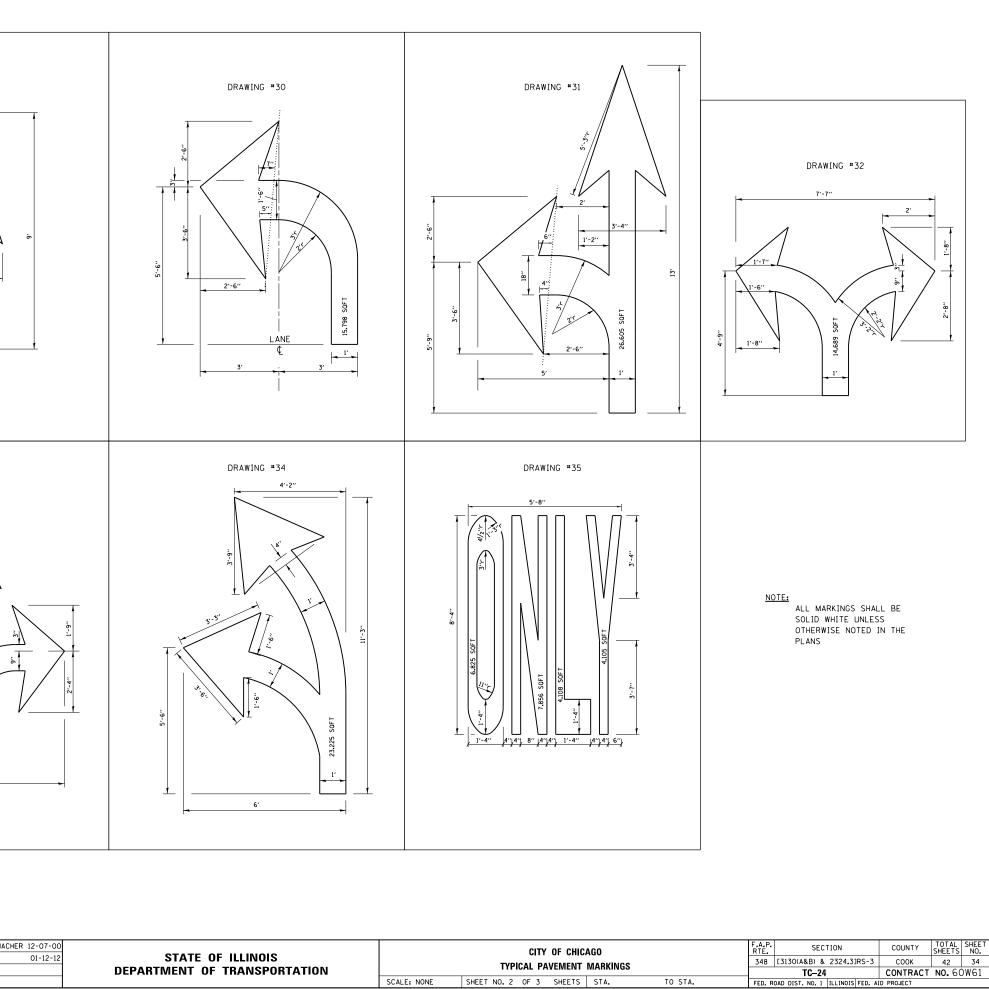
LE NAME =	USER NAME = hamptoncd	DESIGNED -	REVISED - T. RAMMACHER 12-07-00			CITY OF CH
\pw_work\pwidot\hamptoncd\d0345019\Di	itStd.dgn	DRAWN -	REVISED - K. ENG 02-28-12	STATE OF ILLINOIS		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		TYPICAL PAVEMEN
	PLOT DATE = 10/31/2013	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS

H OF LINE	PATTERN	COLOR	SPACING / REMARKS
	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
00)	SOLID	YELLOW	8 (200) C-C
00)	SOL ID SOL ID	YELLOW YELLOW	8 (200) C-C
N FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
LINE BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
INE: FULL TERS & (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
DO) ECTION	SKIP-DASH AND SOLID	YELLOW	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH: 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
© 45° © 90°	SOLID SOLID	WHITE WHITE	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
DO) WITH DIAGONALS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
WITH 12 (300) S oc 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
TRANSVERSE R'' IS 6' TTERS: 16 (400) ''X''	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)

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

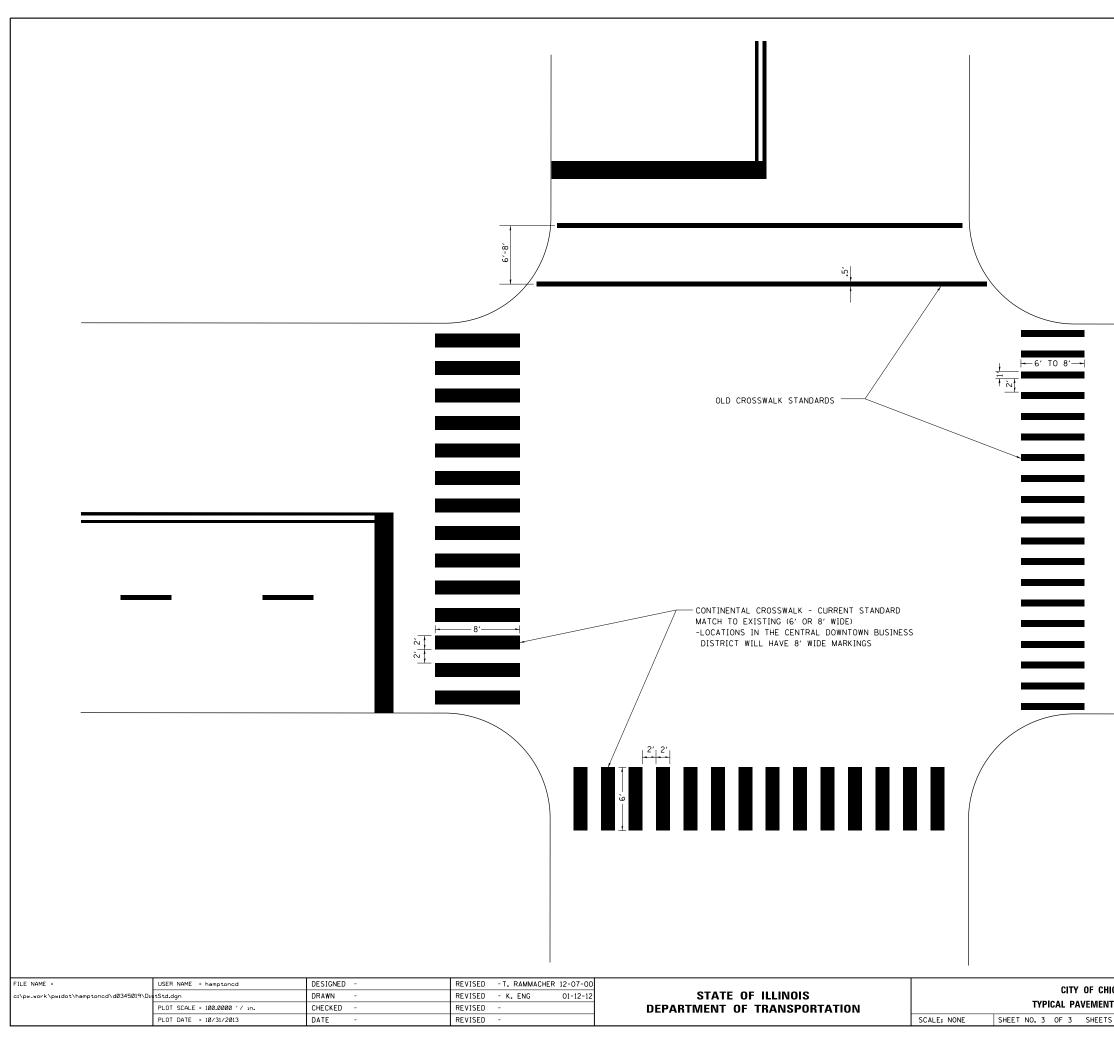
IC/	AGO		F.A.P. RTE.	SECT	ION	COUNTY	TOTAL SHEETS	SHEET NO.
т	r Markings			348 [3130(A&B) & 2324.3]RS-3 COOK 4				
I WARKINGS				TC-24		CONTRACT	NO. 60	DW61
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1	ILLINOIS FED. AI	D PROJECT		





TO STA.

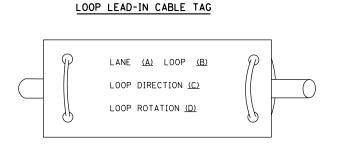
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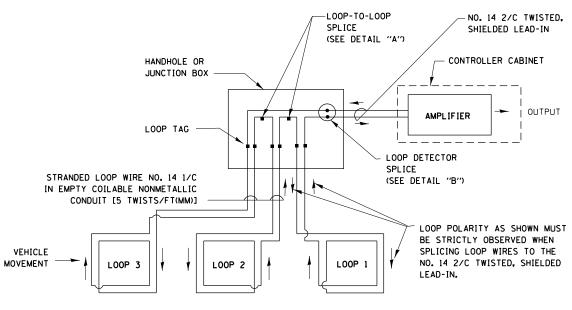
MARKINGS 348 [3130(A&B) & 2324.3]RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
348 [3130(A&B) & 2324,3]RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
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T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
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T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
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T MARKINGS 348 [3130(A&B) & 2324.33RS-3 COOK 42 35 TC-24 CONTRACT NO. 60W61					
TC-24 CONTRACT NO. 60W61	CAGO	F.A.P. RTE. 348	SECTION		
FI STA. IV STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			TC-24	CONTRACT NO	. 60W61
	, STAL 10 STA	. FED. F	UAU UIST. NU. I ILLINUIS 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.

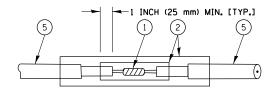


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



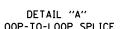
DETECTOR LOOP WIRING SCHEMATIC

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



DETAIL "A" LOOP-TO-LOOP SPLICE

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LOOP-TO-LOOP SPLICE

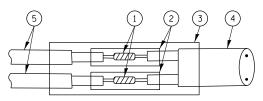
LOOP DETECTOR SPLICE

 \bigcirc western union splice soldered with rosin core flux. All exposed surfaces \bigcirc 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.

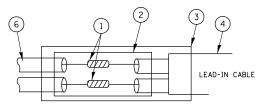
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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c:\pw_work\pwidot\hamptoncd\d0345019\Di	tStd.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		348 [3130(A&B) & 2324.3]RS-3	3 COOK 42 36
	PLOT SCALE = 100.0000 ' / 10.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION		STANDARD TRAFFIC SIGNAL DESIGN DETAILS	TS-05	CONTRACT NO. 60W61
	PLOT DATE = 10/31/2013	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT



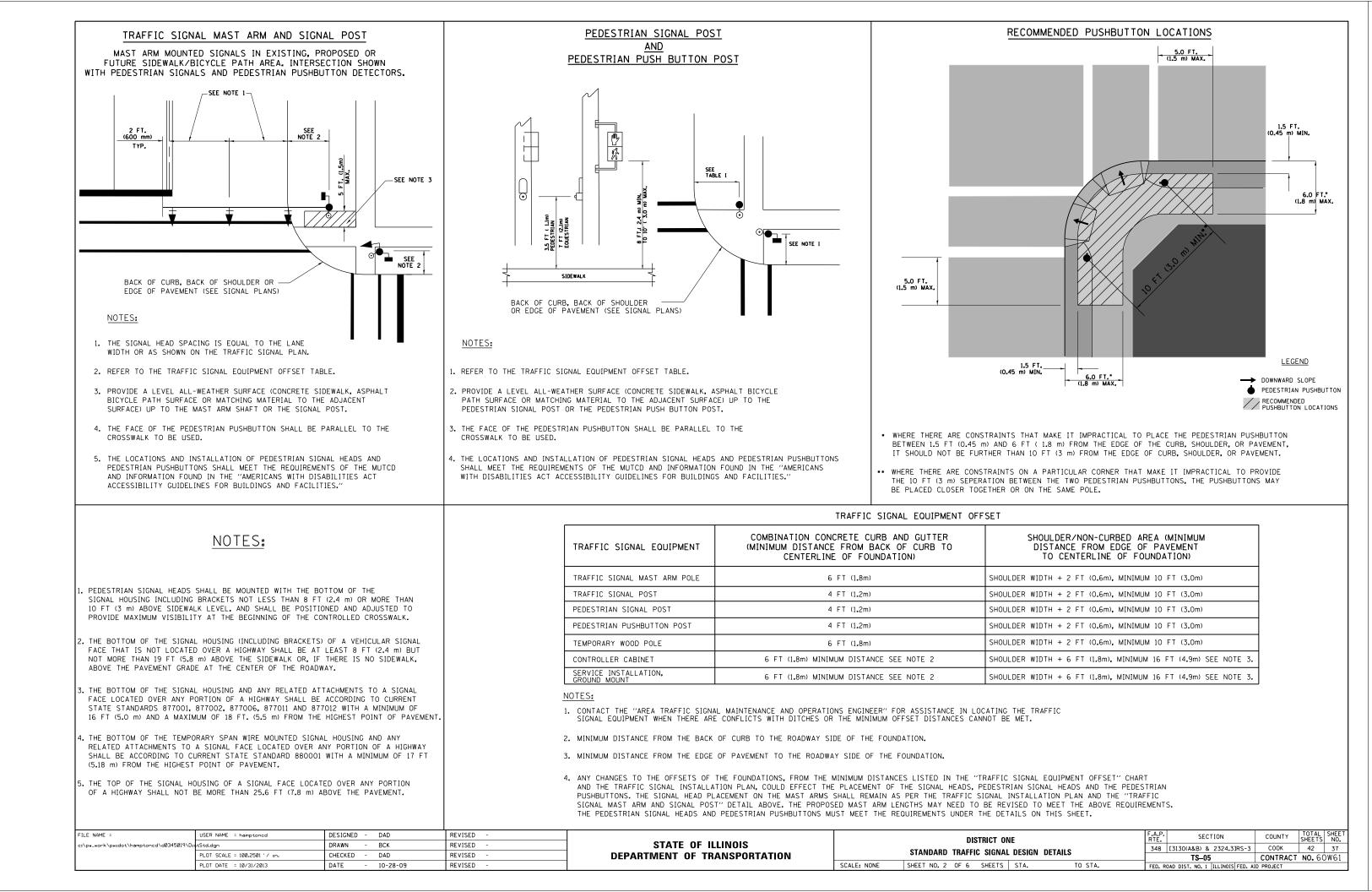
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

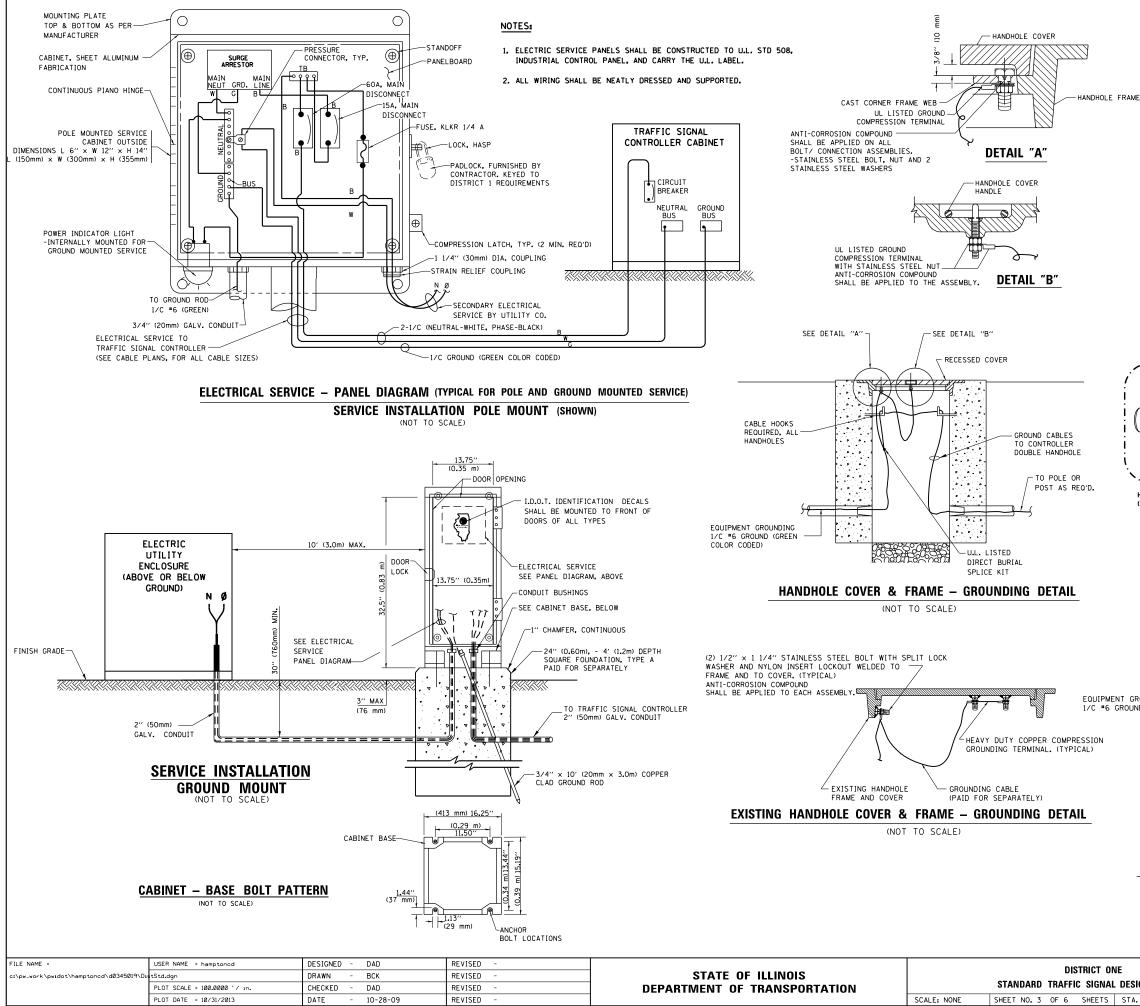
TYPE I LOOP



PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE





NOTES:

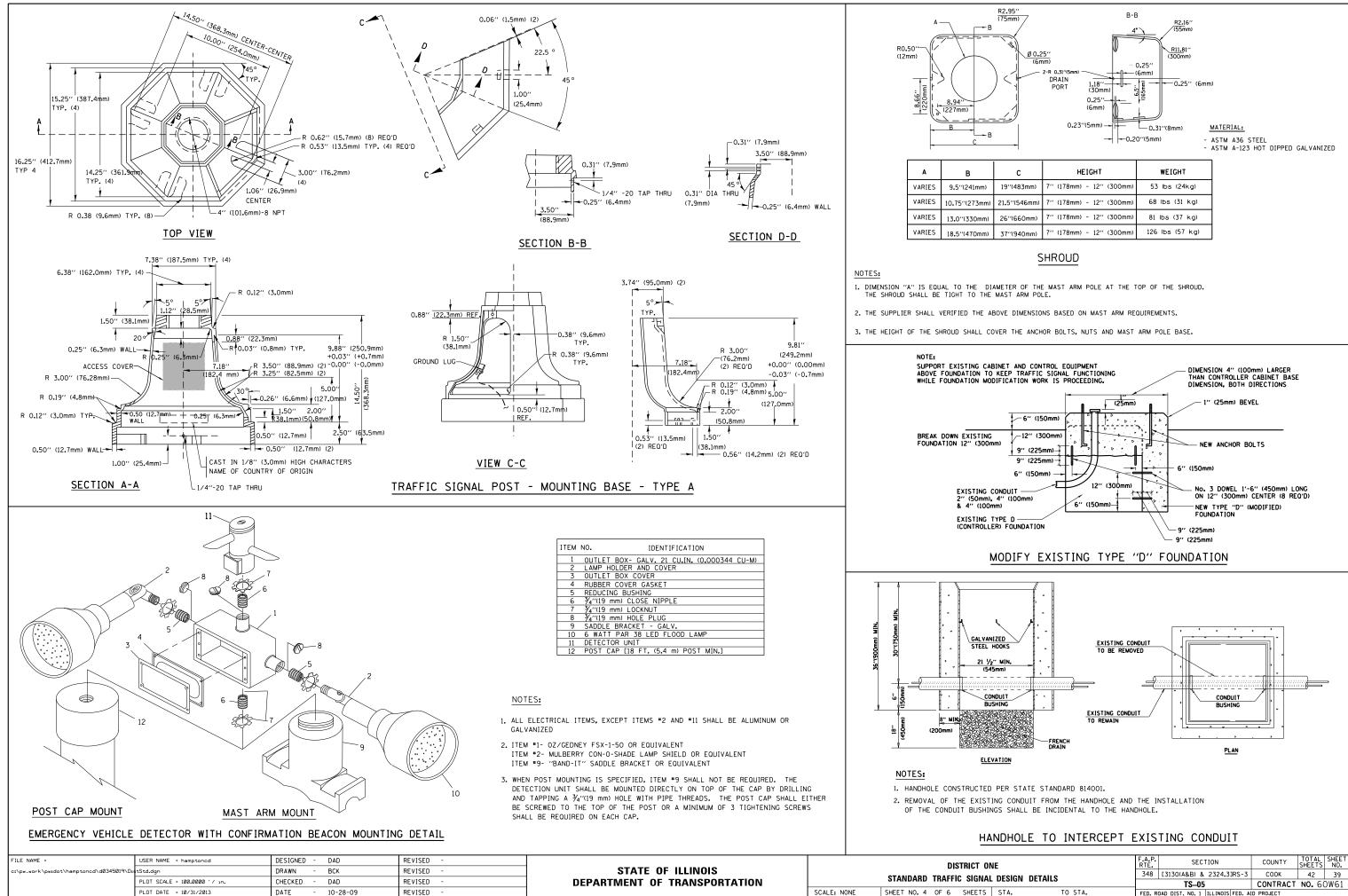
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. × 10'-0" (20mm × 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS. THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC. ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.

- 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

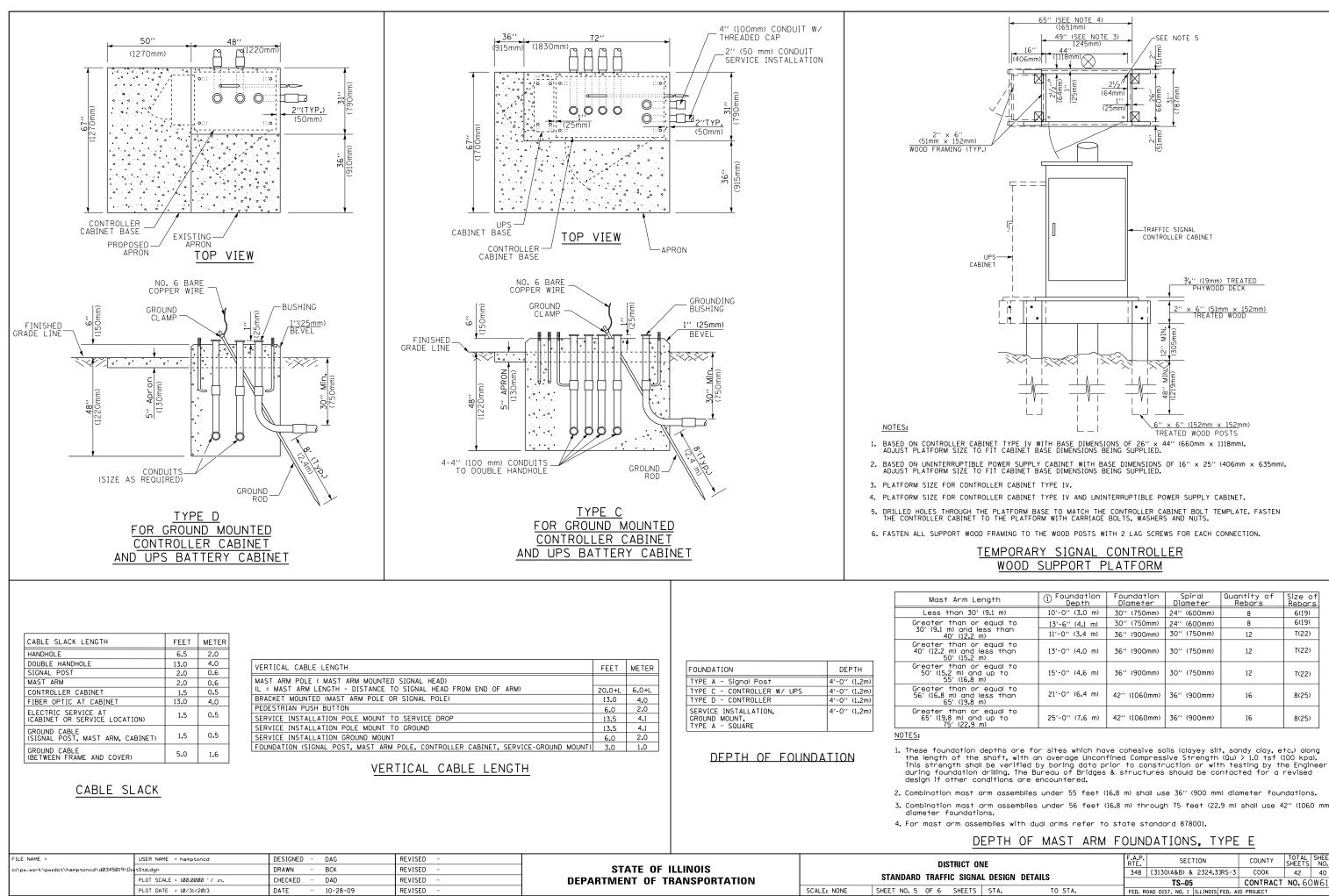
HEAVY-DUTY COMPRESSION TERMIN		94" (20mm) HEAVY-		
(BURNDY TYPE YGHA OR APPROVE) <u>NOTES:</u> • ALL CLAMPS SHALL BI • GROUND CABLE SHALL 6.5° (2.0m) SLACK SHA 13' (4.0m) OF SLACK SHA	D EQUAL) E BRONZE OF BE LOOPED GLL BE PROV GHALL BE PROV	(BURNDY TYPE GRC (R COPPER, UL APPROVE	OR APPROVED ED. HANDHOLES HOLES NDHOLES.	EOUAL)
	POST-G	1/C *6 GROL HEAVY DUTY EXOTHERMIC V OR U.L. APPR (TYPICAL FOR ************************************	GROUND ROD WELD, OVED CONNEC ALL GROUND - - ' (20mm × 3.0 ND ROD	OLOR CODED) CLAMP, TOR. RODS)
IF	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.

 DESIGN	DETAILS	348	[3130(A&B) &	2324.3]RS-3	СООК	42	38
 . DESIGN	DETAILS	TS-05 CONTRACT NO. 60W6					
STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS FED. A	D PROJECT		



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

ONE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
AL DESIGN DETAILS	348	[3130(A&B) & 2324.3]	RS-3	СООК	42	39
AL DESIGN DETAILS	TS-05 CONTRACT NO. 601					DW61
S STA. TO STA.	FED. R	OAD DIST. NO. 1 ILLINOIS	FED. AI	D PROJECT		



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ONE			F.A.P. RTE	SECTI	ON	COUNTY	T (SH
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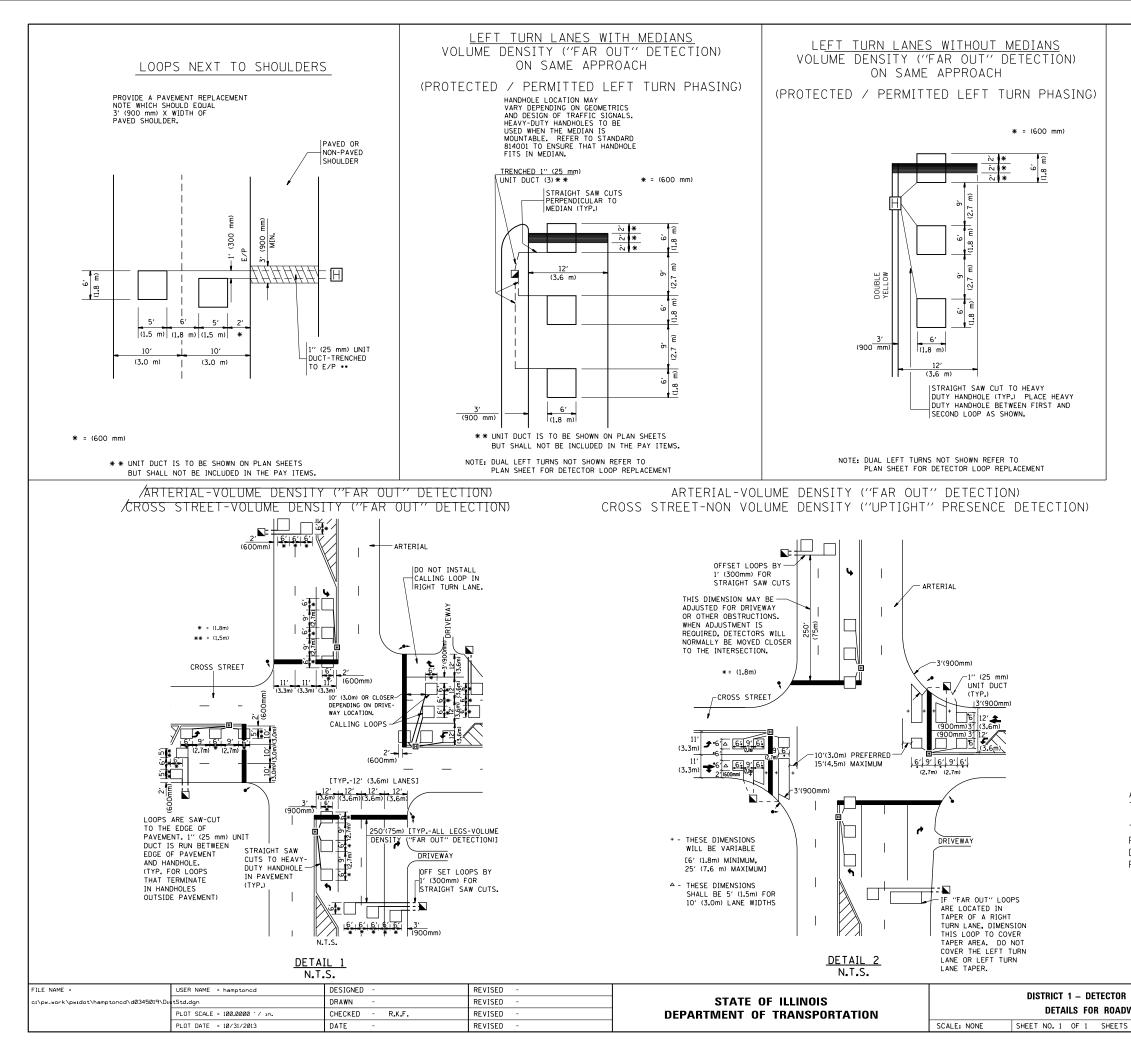
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01	IE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	L DESIGN DETAILS	348	[3130(A&B) & 2324.3]RS-3	СООК	42	40	
VA	L DESIGN DETAILS		TS-05	CONTRACT	NO. 60	W61	
s I	STA. TO STA.	FED ROAD DIST NO 1 JULINOIS FED AID PROJECT					

_ength	 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)
or 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 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 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

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
								ELECTRIC CABLE IN CONDUIT, TRACER,			
CONTROLLER CABINET RAILROAD CONTROL CABINET	\boxtimes^{R}			EMERGENCY VEHICLE LIGHT DETECTOR CONFIRMATION BEACON	Ro-(1	~		NO. 14 1/C, UNLESS NOTED OTHERWISE			
COMMUNICATIONS CABINET	R	ECC			-			COAXIAL CABLE		— <u>c</u>	—©—
MASTER CONTROLLER	CC	[EMC]	MC	HANDHOLE	R					,	
MASTER MASTER CONTROLLER		EMMC	MMC	HEAVY DUTY HANDHOLE	RH	Н	Н	VENDOR CABLE FOR CAMERA		—	
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOLE	R			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		-6-	6)
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-□- ^R	- <u></u> P	- -	JUNCTION BOX GALVANIZED STEEL CONDUIT	R	\bigcirc	0	FIBER OPTIC CABLE NO. 62.5/125, MM12F			-
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F)
STEEL MAST ARM ASSEMBLY AND POLE	R	0	•	AND CABLE				FIBER OPTIC CABLE NO. 62.5/125.		,	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH			СТ	(NUMBER OF FIBERS & TYPE TO BE		-\$	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	RO-X	0-¤	• <u>×</u>	COILABLE NONMETALLIC CONDUIT (EMPTY) SYSTEM ITEM		S	CNC S	NOTED ON PLANS) GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM.		°,∥⊨⊷	Cul
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTA			INTERSECTION ITEM		Ι	IP	OR (S) SERVICE		-illo	
SIGNAL POST	RO	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	° R⊗	\otimes	٢	RELOCATE ITEM	RL						
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	× 	>	\succ	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	А	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O ^{RMF}		
SIGNAL HEAD	R -		, →			\square		ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)	-1-2		_ → ²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R		STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF		
SIGNAL HEAD WITH BACKPLATE	$+ \stackrel{R}{\triangleright}$	+ >	+►			R	R	FOUNDATION TO BE REMOVED	0 A		
SIGNAL HEAD OPTICALLY PROGRAMMED			- ►''P''	SIGNAL FACE		G	G	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	O-₩'F''	0-1> [∞] 'F [™]	● → "F"			↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓↓<	 ▲ Y ▲ G 	INTERSECTION & SAMPLING (SYSTEM) DETECTOR			15
PEDESTRIAN SIGNAL HEAD	R -	-1	-1			R	R	SAMPLING (SYSTEM) DETECTOR			S
PEDESTRIAN PUSHBUTTON DETECTOR	®	0	۲	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		G	G	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT(
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R @ aps	@aps	APS			€ (P'')	4 Y 4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		ŗ_ ⊸ Į₽₽Į	
ILLUMINATED SIGN "NO LEFT TURN"	R	\odot	\odot	12'' (300mm) PEDESTRIAN SIGNAL HEAD			"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT(DR		
ILLUMINATED SIGN	R			WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
"NO RIGHT TURN"	R			12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR		ţ <u>PS</u> į	PS
DETECTOR LOOP, TYPE I		└──」 └_──!		12" (300mm) PEDESTRIAN SIGNAL HEAD							
PREFORMED DETECTOR LOOP		?~ — ¥ ₽ & — &	Ρ	IZ" (SOUMM) PEDESIRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		N	₹	RAILROAD	SYMBO	LS	
MICROWAVE VEHICLE SENSOR	R			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C C D	₽ K			EXISTING	PROPOSED
VIDEO DETECTION CAMERA	R		$\overline{\mathbb{V}}$	RADIO INTERCONNECT			 	RAILROAD CONTROL CABINET			
VIDEO DETECTION ZONE				RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	×		Xex X
PAN, TILT, ZOOM CAMERA	R PT	्रिमे	P	DENOTES NUMBER OF CONDUCTORS, ELECTRIC				FLASHING SIGNAL		XoX	XoX
WIRELESS DETECTOR SENSOR	R		(W)	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5		CROSSING GATE		XoX>	XOX
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			(1)	CROSSBUCK		¥	\mathbf{X}
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	PLOT DATE = 10/31/2013	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 6 OF 6 SHEETS		



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, <u>MORE</u> 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 WAY RESURFACING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			348	[3130(A&B) & 2324.3]RS-3	COOK	42	42	
				TS-07	CONTRACT NO. 60W61			
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				