TOTAL SHEE SHEETS NO.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE CITY OF WARRENVILLE

PROPOSED HIGHWAY PLANS

F.A.P. 338 (IL-59) AT BATAVIA ROAD SECTION: 112 N-2 PROJ. ACHSIP-0338 (033) RESURFACING (MAINTENANCE) AND TRAFFIC SIGNAL MODERNIZATION **DUPAGE COUNTY**

C-91-033-08 IL-59: IMPROVEMENT BEGINS STA. 4+96 IMPROVEMENT ENDS STA. 16+06 ż BATAVIA RD.: IMPROVEMENT IMPROVEMENT ENDS WINFIELD TOWNSHIP

GROSS AND NET LENGTH OF IMPROVEMENT = 1448 FT (0.27 MILE)

= 10,200 (BATAVIA RD.)

2005 ADT = 38,800 (IL 59)

AVERAGE DAILY TRAFFIC

POSTED SPEED LIMIT

LOCATION OF SECTION INDICATED THUS: -

D-91-033-08

SUBMITTED October 25 2007

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Bione D' Kueso Kol DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Christing M. Reed B DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 60D51

-4240

705

(847)

TRAN

ENG/LONG

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ENGINEER:

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DISTRICT

10/25/2007 c:\projects\di03308\design_aa.dgn

			201411100	1 110.	,005
F.A.P. RTE.	SECTION	C	OUNTY	TOTAL	SHEET NO.
338	112 N-2		DU PAGE	42	2 .
STA.		TO	STA.		
FED. ROAD	DIST. NO.	ILLINOIS	FED. AID	PROJEC1	-

INDEX OF SHEETS

SH	EET NO.	DESCRIPTION
	1	TITLE SHEET
	2	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
	3 - 5	SUMMARY OF QUANTITIES
	6 - 8	TYPICAL CROSS SECTIONS
	9-10	ROADWAY PLANS
	11	PAVEMENT MARKING PLANS
	12-26	TRAFFIC SIGNAL PLANS
	27	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
	28	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
	29	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMEN
	30	BUTT JOINT AND HMA TAPER DETAILS
	31	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
	32	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
> -	33-34	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
	35	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
.,**	36	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
	37	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
	38	ARTERIAL ROAD INFORMATION SIGN
	39-41	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
	. 42	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

STANDARDS

000001 <i>-05</i>	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001- <i>0</i> 5	CURB RAMPS FOR SIDEWALKS
442201- <i>03</i>	CLASS C AND D PATCHES
482011 <i>-03</i>	HMA SHOULDER STRIPS/SHPULDERS WITH RESURFACING OR WIDENING & RESURFACING PROJECTS
604016 <i>-01</i>	FRAME AND GRATE, TYPE 4
606001- <i>03</i>	CONCRETE CURB & COMBINATION CONCRETE CURB & GUTTER
606301- <i>03</i>	PC CONCRETE ISLANDS AND MEDIANN
606306- 02	CORRUGATED PC CONCRETE MEDIAN
701301 - 02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311- <i>0</i> 2	LANE CLOSURE, 2L, 2W, MOVING DAY ONLY OPERATIONS
701606- 05	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701- <i>05</i>	LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE
701801- <i>03</i>	TRAFFIC CONTROL DEVICES
701901	TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES.(48 HOUR NOTIFICATION IS REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF WARRENVILLE.

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

THE CONTRACTOR SHALL CONTACT THE DISTRIC ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO START OF WORK.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PARVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, AREA TRAFFIC ENGINEER, AT (847) 741-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE POSTED SPEED IS 45 MPH OR LESS AND 1 INCH WHERE THE POSTED SPEED IS GREATER THAN 45 MPH. WITH WRITTEN APROVAL FROM THE ENGINNER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKING 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.

REVISIONS
NAME
DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION
INDEX OF SHEETS,
STATE STANDARDS &
GENERAL NOTES

SCALE: VERT.
HORIZ.
DATE
CHECKED BY

F.A.P. RTE.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
338	112 N-2		DUPAG	E	42	3
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PRO	JECT

	SUMMARY OF QUANTITIES					CONSTRUCT		CODE			SUMMARY OF QUANTITIES					CONSTRUCT		CODE	,	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	901.FED _ 101. STATE ROADWAY 1000-2A	90/FED 5/. STATE 5/. WARRENSVILLE SIGNALS Y031-1F	PRE-EMPTION Y031-30				CODE NO	ITEM	UNIT	TOTAL QUANTITIES	90%, FED. 10%, STATE ROADWAY 1000-2A	5%.WARRENSVILL	PRE-EMPTION Y031- 30				
20200500	EARTH EXCAVATION (WIDENING)	CU YD	80	80						44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SQ YD	66	66						
20201550	SUB-BASE GRANULAR MATERIAL, TYPE B	CU YD	25	25						44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	56	56						
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	30	30						44201839	CLASS D PATCHES, TYPE II, 16 INCH	SQ YD	70	70			1 11 11 11 11 11 11 11 11 11 11 11 11 1			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	0.6	0.6						44201843	CLASS D PATCHES, TYPE III, 16 INCH	SQ YD	100	100			٠			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	0.6	0.6					1	44201845	CLASS D PATCHES, TYPE IV, 16 INCH	SQ YD	60	60						
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	0.6	0.6						44300200	STRIP REFLECTIVE CRACK CONTROL	FOOT	2720	2720	1.1 1.1					
25200110	SODDING, SALT TOLERANT	SQ YD	30	30						48102100		TON	12	10						
25200200	SUPPLEMENTAL WATERING	UNIT	0.3	0.3						48102100	AGGREGATE WEDGE SHOULDER, TYPE B STORM SEWERS TO BE CLEANED	FOOT	300	300						
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5	5						55039700	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2						
40600300	AGGREGATE (PRIME COAT)	TON	24	24						60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2						
40600400	MIXTURE FOR CRACKS, JOINTS,	TON	4	4						60300310	(SPECIAL)	EAGN	2	2						
40000075	AND FLANGEWAYS	TON	825	825						60605000	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	501	501						
40600635	LEVELING BINDER (MACHINE METHOD), N70 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	125	125						67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6							
40600362	JOINT	30 10	123	123						67100100	MOBILIZATION	L SUM	1	1		,	18.2			
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	301	301						70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1						
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1170	1170						70102635	STANDARD 701606 TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1		. '				
42001300	PROTECTIVE COAT	SQ YD	300	300							STANDARD 701701									
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	70	70						70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1						
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SQ FT	560	560			a.le			70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1230	1230		-				
	INCH									70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	290.4	290.4		-				
42400800	DETECTABLE WARNINGS	SQ FT	48	48						70300220	TEMPORARY PAVEMENT MARKING	FOOT	3820	3820						
44000159	HOT MIX ASPHALT SURFACE REMOVAL, 2	SQ YD	11715	11715							- LINE 4"									
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	70	70						70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	F00T	660	660						
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	615	615						70300260	TEMPORARY PAVEMENT MARKING	FOOT	200	200			1.1			
44000600	SIDEWALK REMOVAL	SQ FT	925	925							- LINE 12"									
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	5815	5815						70300280	TEMPORARY PAREMENT MARKING - LINE 24"	FOOT	175	175		1				
44201729	CLASS D PATCHES, TYPE II. 7 INCH	SQ YD	70	70				-		X 72000100	SIGN PANEL - TYPE 1	SQ FT	31. 5		31.5					
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SQ YD	100	100						₹ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	290.4	290.4						
50					100															
000000000000000000000000000000000000000				<u> </u>					1.0							<u></u>		<u> </u>		

* SPECIALTY ITEMS

NP = NON-PARTICIPATING
* SPECIALTY ITEMS

REVISIONS
MAKE DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

IL 59 AT BATAVIA ROAD

PLOT DATE: 11/7/2007

F.A.P.		SEC	TION	ı		COUNT	Y	TOTAL SHEETS	SHEET NO.
338		112	N-2			DUPAG	E	42	4
FED.	ROAD	DIST.	NO.	1	ILL	INOIS	HIG	HWAY PRO	DJECT

	SUMMARY OF QUANTITIES										SUMMARY OF QUANTITIES		101. STATE	1 /0/// 20	,	1001		i
CODE NO	ITEM	UNIT		90 (FED . 101, STATE ROADWAY 1000-2A		VARRENVILLE PRE-EMPTION Y031-30				CODE NO	ITEM	UNIT		901. FEO. 51. STATE 51. WARRENVILE ROADWAY 1000-2A	SIGNALS Y031-1F	PRE-EMPTION Y031-3D		
000200	THERMOPLASTIC PAVEMENT MARKING	FOOT	3820	3820						87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1763		1763			
1000400	- LINE 4" THERMOPLASTIC PAVEMENT MARKING	FOOT	660	660						87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2099		2099			
000600	- LINE 6" THERMOPLASTIC PAVEMENT MARKING	FOOT	200	200						87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55	-	55			
000650	- LINE 12" THERMOPLASTIC PAVEMENT MARKING	F00T	175	175		·		-		87502440	TRAFFIG SIGNAL POST, GALVANIZED STEEL	EACH	2		2-	-		
3100100	- LINE 24" RAISED REFLECTIVE PAVEMENT MARKER	EACH	87	87						87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2		2			
3300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	87	87						87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	2		2			
1000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	730		730					87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26	EACH			 	·		
1000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	141		14.1					87700200	STEEL MAST ARM ASSEMBLY AND POLE, 32	EACH	1		1			
1001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	50		50				*	87700240—		EAGH	2					
1018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	114		114					87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16		16			
1018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	35		35					87800150 87800200	CONCRETE FOUNDATION, TYPE C	FOOT FOOT	4		4			
1018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	367		367					87800300	CONCRETE FOUNDATION, TYPE E 24-INCH DIAMETER	FOOT	20		20			
1,400100	HANDHOLE	EACH	7		7					87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30		30		,	
1400200	HEAVY-DUTY HANDHOLE DOUBLE HANDHOLE	EACH EACH	1		1					87900200	DRILL EXISTING HANDHOLE	EACH	2		2			
1900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	684		884					88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	8		8			
5000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1			-		88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2			
5700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1					88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2			
37301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1261		1261					88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2			
37301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	F00T	1840		1840					88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2			
7301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2563		2563				:	88100400	PEDESTRIAN SIGNAL HEAD, 2-FACE, BRACKET MOUNTED	EACH	. 2	-	2			
							100											

* SPECIALTY ITEMS

* SPECIALTY ITEMS

REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

IL 59 AT BATAVIA ROAD

PLOT DATE: 11/7/2007

F.A.P. RTE.	SECTION		COUNT	Υ	TOTAL SHEETS	SHEET NO.
338	112 N-2		DUPAG	E	42	. 5
FED.	ROAD DIST. NO. 1	ILL	INOIS	HIG	HWAY PRO	JECT

						CONSTRUCT	TON TYPE I	CODE		1				05 011	A N.ITTTT						CONSTRUCT	ION TYPE C	ODE	
	SUMMARY OF QUANTITIES			90/FEO :	991.558			JODE				SU	MMARY	OF QU	ANTITLE	5								i
			TOTAL	ROADWAY	S/WARRENVIO	PRE-EMPTION				CODE NO	, .			ITEM		*	UNIT	TOTAL QUANTITIES		,				1
CODE NO	ITEM	UNIT	OUANTITIES	I000-2A	Y031-1F	1 YOS1~30	1			CODE NO				I I LIM			0,,,,,	33711121						1 2 5
						WARRENVILLE F.P.O.													1					
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED,	EACH	10		10																			
00200210	ALUMINUM																						, ()	
88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8 .																		, · · · · · · · · · · · · · · · · ·	1 1 1 1 1
	DETECTOR LOOP, TYPE I	FOOT	552		552				144															1
			2			2																		
88700200	LIGHT DETECTOR	EACH						1.71]	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1	1.114										- 44							
88800100	PEDESTRIAN PUSH-BUTTON	EACH			6												1. 4. 111							
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1																			
89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	1		1															,			1	
03302313	EQUIPMENT								The state of the												1		,	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4																				
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER,	FOOT	1557		1557																		(·	
XU322925	NO. 14 1C			e me e						1 1										1				
X0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1																			
	PORTLAND CEMENT CONCRETE BASE COURSE	SQ YD	140	140														14					1	
A3340300	WIDENING 11-3/4"																							
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1																			
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1																			
		FOOT	1650		1650			1										1. 12				-		
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	1001	1030		1000																			
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING,	FOOT	1877		1877																			
X8130021	No. 6 1C																				•			
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C,	FOOT	618			618																		
†	TWISTED, SHIELDED	1.0																						
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	14	14																				
X0325890	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 1	EACH	1		1														1.1	100				
44002264	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 16"	SQ YD	336	336																			-	
44000161	HOT - MIX ASPHALT VREMOVAL, 3"	5Q YD	11,715	11,715																				
		EACH			- 1																		<u> </u>	
. 1	STEEL MAST ARM ASSEMBLY AND POLE, Z4 FT.																							
87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT	EACH	2		2																			
	PEDESTRIAN SIGNAL HEAD, 1-FACE,	EACH	4		4		1														-			
88/00200	PEDESTRIAN SIGNAL HEAD, 1-PACE, BRACKET MOUNTED	27104	7																					
																				1 1 2 2 2 2 2	for one			
00.00		1 - 13						1																
u sesion		1																		1		<u> </u>	1	1
988																		<u> </u>	REVISIONS	·	ILLINOIS	DEPARTMENT OF	TRANSPORTA	TION

NP= NON- PARTICIPATING
* SPECIALTY ITEMS

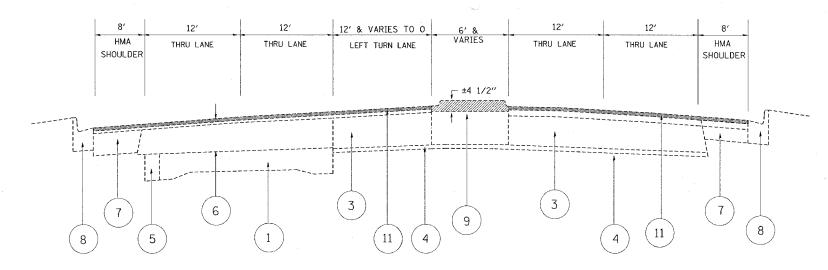
REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

IL 59 AT BATAVIA ROAD

PLOT DATE: 11/7/2007

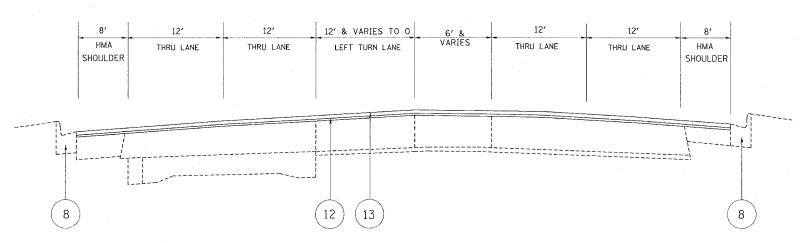
F.A.P. RTE.	SECTION	С	OUNT	Υ	TOTAL SHEETS	SHEET NO.
338	112 N-2	D	U P	4GE	42	6
STA.		то	STA.	*******	-	
FED. ROA	D DIST. NO.	ILLINOIS	FED.	AID	PROJECT	



IL 59

EXISTING TYPICAL SECTION

STA. 4+96 TO STA. 6+90 STA. 12+31 TO STA. 16+05



IL 59

PROPOSED TYPICAL SECTION

STA. 4+96 TO STA. 6+90 STA. 12+31 TO STA. 16+05

<u>LEGEND</u>

- (1) EXISTING P.C.C. PAVEMENT (7")
- (2) EXISTING HMA PAVEMENT (13")
- (3) EXISTING HMA PAVEMENT (16")
- (4) EXIST. SUB-BASE GRANULAR MATERIAL
- (5) EXISTING HMA WIDENING (9")
- (6) EXISTING HMA OVERLAY (±14")
- (7) EXISTING STABILIZED SHOULDER (8")
- (8) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- (9) PROPOSED MEDIAN REMOVAL PARTIAL DEPTH (±4 1/2")
- (10) EXISTING BARRIER MEDIAN
- (11) PROPOSED HMA SURFACE REMOVAL, 3"
- (12) PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 1 1/4"
- $\left(13
 ight)$ proposed polymerized HMA surface course MIX F, N90, 1 3/4"

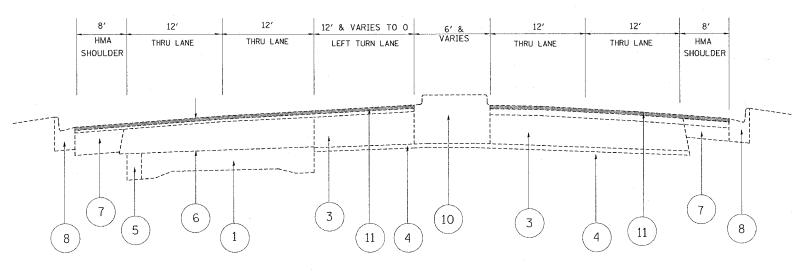
HOT-MIX ASPHALT MIXT	TURE REQUIREMENT	S
MIXTURE TYPE	AC TYPE	AIR VOIDS(%)
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	SBS/SBR PG 70-22	4%@90 GYR.
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5 mm)	PG 64-22*	4%@70 GYR.
PATCHING		
CLASS D PATCHES TYPE II, III, IV, (HMA BINDER IL-19)	PG 64-22*	4%@70 GYR.
HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	PG 64-22*	4%@70 GYR.

* WHEN RAP EXEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22. NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTATIES IS 112 LBS/SQ YD/IN.

REVISION		TILINOIS DEPARTM	ENT OF TRANSPORTATION
NAME	DATE	TELLINOIS DEI ANTIN	ICITI OF TRANSFORTATION
		TI 50 AT	BATAVIA RD.
		IL. 33 AT	DATAVIA ND.
		TYPICAL CD	ROSS SECTIONS
		THE TOAL ON	1033 350110113
		NTS	DRAWN BY
	_	11/28/2007	CHECKED BY

11/28/2007 c:#projec†s#d103308#design_aa.dgn OSMANHM

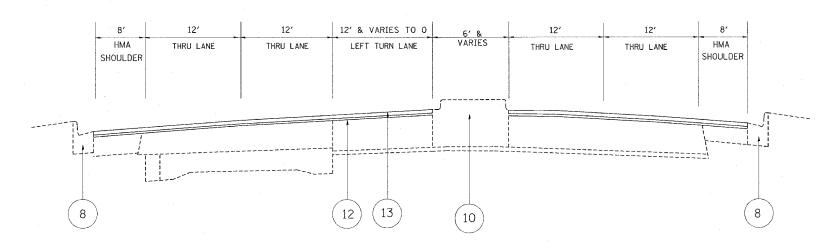
F.A.P. RTE.	SECTION	С	OUNT	Y	TOTAL	SHEET NO.
338	112 N-2	. 0	U P	AGE.	42	7
STA.		ТО	STA.			
FED. ROAL	DIST. NO.	ILLINOIS	FED.	AID	PROJECT	2



IL 59

EXISTING TYPICAL SECTION

STA. 6+90 TO STA. 12+31



IL 59
PROPOSED TYPICAL SECTION

STA. 6+90 TO STA. 12+31

LEGEND

- (1) EXISTING P.C.C. PAVEMENT (7")
- 2) EXISTING HMA PAVEMENT (13")
- (3) EXISTING HMA PAVEMENT (16")
- (4) EXIST. SUB-BASE GRANULAR MATERIAL
- (5) EXISTING HMA WIDENING (9")
- 6) EXISTING HMA OVERLAY (±14")
- 7) EXISTING STABILIZED SHOULDER (8")
- (8) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- 9 PROPOSED MEDIAN REMOVAL PARTIAL DEPTH (±4 1/2")
- (10) EXISTING BARRIER MEDIAN
- (11) PROPOSED HMA SURFACE REMOVAL, 3"
- (12) PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 1 1/4"
- (13) PROPOSED POLYMERIZED HMA SURFACE COURSE MIX F, N90, 1 3/4"

REVISIONS
NAME DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

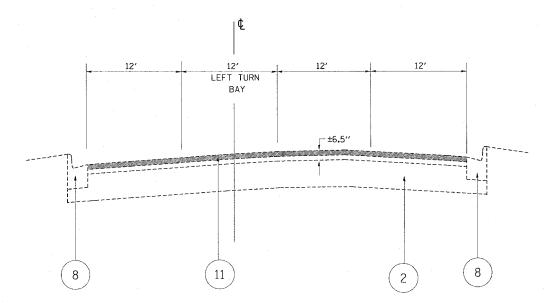
IL. 59 AT BATAVIA RD.

TYPICAL CROSS SECTIONS

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11/28/2007 CHECKED BY

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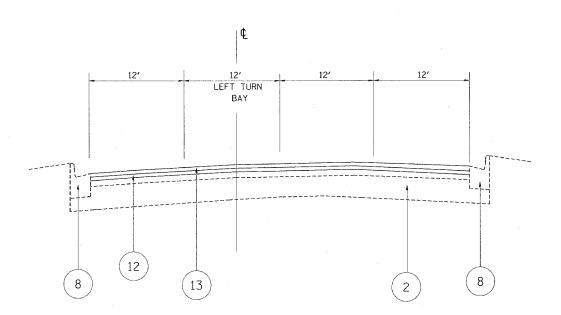
F.A.P. RTE.	SECTION	С	OUNTY	TOTAL SHEETS	SHEET NO.
338	112 N-2		DU PAGE	42	8
STA.		то	STA.		
FFD ROAD	DIST NO I	LIMOIS	EED AID	PROJECT	



BATAVIA ROAD

EXISTING TYPICAL SECTION

STA. 3+59 TO STA. 7+40



BATAVIA ROAD

EXISTING TYPICAL SECTION

STA. 3+59 TO STA. 7+40

LEGEND

- 1) EXISTING P.C.C. PAVEMENT (7")
- 2 EXISTING HMA PAVEMENT (13")
- (3) EXISTING HMA PAVEMENT (16")
- 4) EXIST. SUB-BASE GRANULAR MATERIAL
- (5) EXISTING HMA WIDENING (9")
- (6) EXISTING HMA OVERLAY (±14")
- 7) EXISTING STABILIZED SHOULDER (8")
- (8) EXISTING COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- (9) PROPOSED MEDIAN REMOVAL PARTIAL DEPTH (±4 1/2")
- (10) EXISTING BARRIER MEDIAN
- (11) PROPOSED HMA SURFACE REMOVAL, 3"
- (12) PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 1 1/4"
- (13) PROPOSED POLYMERIZED HMA SURFACE COURSE MIX F, N90, 1 3/4"

REVISIONS
NAME
DATE

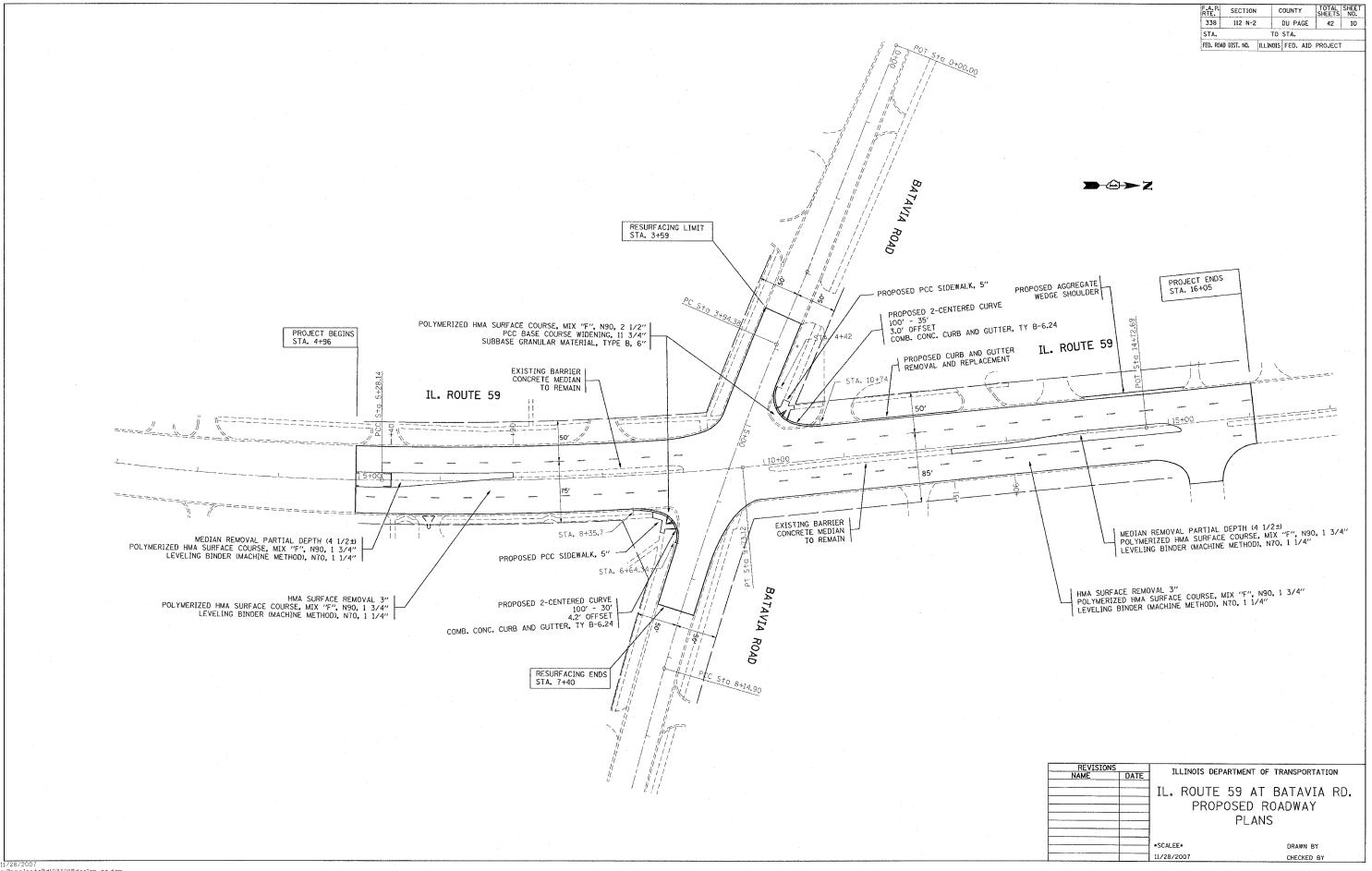
ILLINOIS DEPARTMENT OF TRANSPORTATION

IL. 59 AT BATAVIA RD.

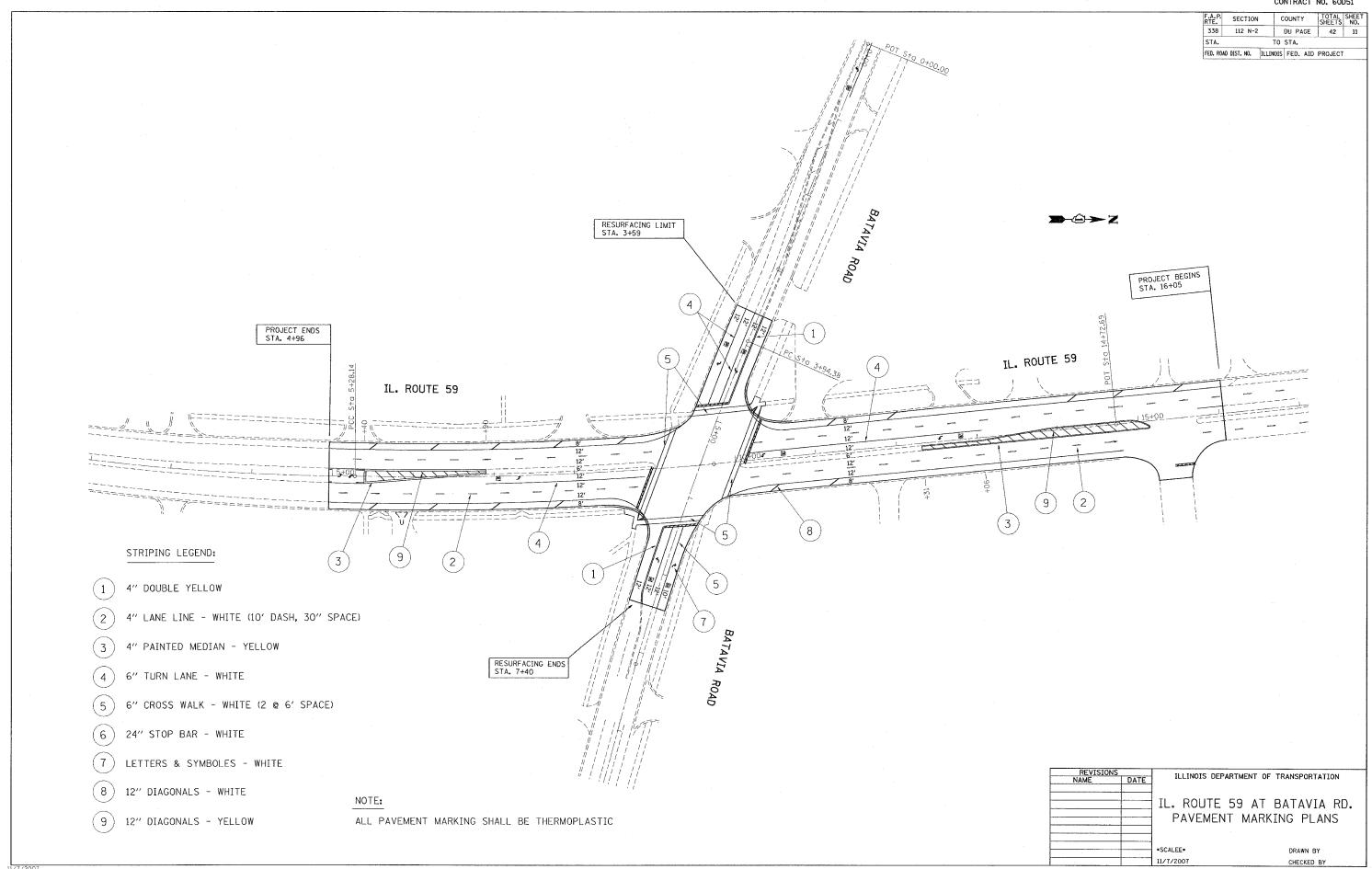
TYPICAL CROSS SECTIONS

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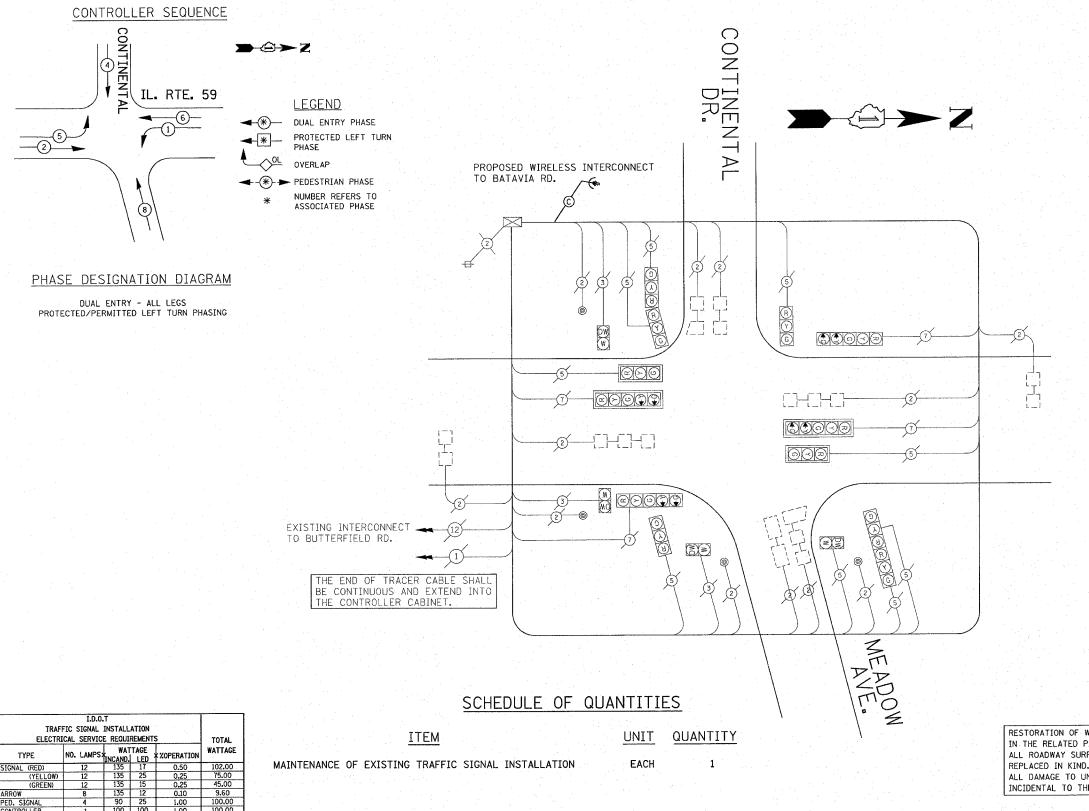
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11/7/2007 c:Bprojects&d103308&design_aa.dgn osmanhm

COUNTY TOTAL SHEE SECTION 338 112 N-2 DuPAGE STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT TRAFFIC SIGNAL LEGEND CONTRACT NO. 60D51 PROPOSED EXISTING PROPOSED EXISTING \bowtie CONTROLLER CABINET JUNCTION BOX 0 R R R F RAILROAD CONTROL CABINET HANDHOLE -O-SERVICE INSTALLATION, (P) POLE OR H NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM. HEAVY DUTY HANDHOLE (G) GROUND MOUNT \square DOUBLE HANDHOLE TELEPHONE CONNECTION G.S. CONDUIT IN TRENCH OR PUSHED $\neg \triangleright$ SIGNAL HEAD COMMON TRENCH CT $+\Box$ NOTE: ALL TRAFFIC SIGNAL HEADS SHALL SIGNAL HEAD WITH BACKPLATE UNIT DUCT SIGNAL HEAD OPTICALLY PROGRAMMED BE L.E.D. (LIGHT EMITTING DIODE). 0 PEDESTRIAN PUSHBUTTON DETECTOR -[] SIGNAL HEAD PEDESTRIAN DETECTOR LOOP, TYPE I ILLUMINATED SIGN "NO LEFT TURN" PREFORMED DETECTOR LOOP ILLUMINATED SIGN MMICROWAVE VEHICLE SENSOR "NO RIGHT TURN" 0 [V]VIDEO DETECTOR SIGNAL POST 9 (2) \otimes WOOD POLE (C) CLOSED CIRCUT TV STEEL MAST ARM ASSEMBLEY AND POLE **⊗** EMERGENCY VEHICLE SYSTEM DETECTOR I K ALUMINUM MAST ARM ASSEMBLY AND POLE CONFIRMATION BEACON STEEL COMBINATION MAST ARM B - UNINTERRUPTIBLE POWER SUPPLY ASSEMBLEY AND POLE WITH LUMINAIRE WIRELESS INTERCONNECT (ANTENNA) \geq EX. R.O.W. EX. R.O.W. PROPOSED WIRELESS INTERCONNECT TO BATAVIA RD. \mathcal{I} IL. RTE. 59 ________________________ EX. R.O.W. MEADON EX. R.O.W. EXISTING INTERCONNECT TO IL. RTE. 56 (BUTTERFIELD RD.) RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED ILLINOIS DEPARTMENT OF TRANSPORTATION IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE NE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND TEMPORARY TRAFFIC SIGNAL ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE **INSTALLATIONIL. RTE. 59** INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR. AT CONTINENTAL DR. DRAWN BY: BCK DESIGNED BY: BCK CHECKED BY: DAD SCALE: DATE: 11/19/2007

11/19/2007 c:BprojectsBtrafficBt070009B1159@batavia.dgn kanthaphixaybc



FT. (m) VERTICAL

6.5 (2.0) ALL FOUNDATIONS 13 (4.0) MAST ARM (L) POLE

| 13 (4.0) | MAST | Company | (6m+L-0.6m)= | 2 (1.0) | 1 (0.5) | BRACKET MOUNTED | 13 (4.0) | 13 (4.0) | PED. PUSHBUTTON | 4 (1.2) | 1 (0.5) | ELECTRIC SERVICE | 13.5 (4.1) | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) | POST MOUNTED | 6 (1.8) |

COUNTY TOTAL SHEET NO. SECTION 338 112 N-2 DuPAGE 42 13 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 60D51

TEMPORARY CABLE DIAGRAM LEGEND

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET	\blacksquare	
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	- ■ P	. Р :
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION, 12" (300 mm)	R	R
12" (300 MM) PEDESTRIAN SIGNAL SECTION	(7) (A)	
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED. NUMBER OF CONDUCTORS AS NOTED	-2-	—2— 2—2—
PEDESTRIAN PUSHBUTTON DETECTOR	•	0
VEHICLE DETECTOR, INDUCTION LOOP		
MICROWAVE VEHICLE SENSOR	(M)4	(M)
VIDEO DETECTOR	(V)	(√)1
CLOSED CIRCUT TV	©	(C)
EMERGENCY VEHICLE SYSTEM DETECTOR	, ⊶	6 <<
CONFIRMATION BEACON	•	o0
WIRELESS INTERCONNECT (ANTENNA)	- ()11	

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND, ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR.

NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
	TEMPORARY CABLE PLAN AND PHASE DESIGNATION DIAGRAM
	IL. RTE. 59 AT CONTINENTAL DR.
	SCALE: DRAWN BY: BCK DESIGNED BY: BCK DATE: 11/27/2007 CHECKED BY: DAD

ENERGY COSTS TO:

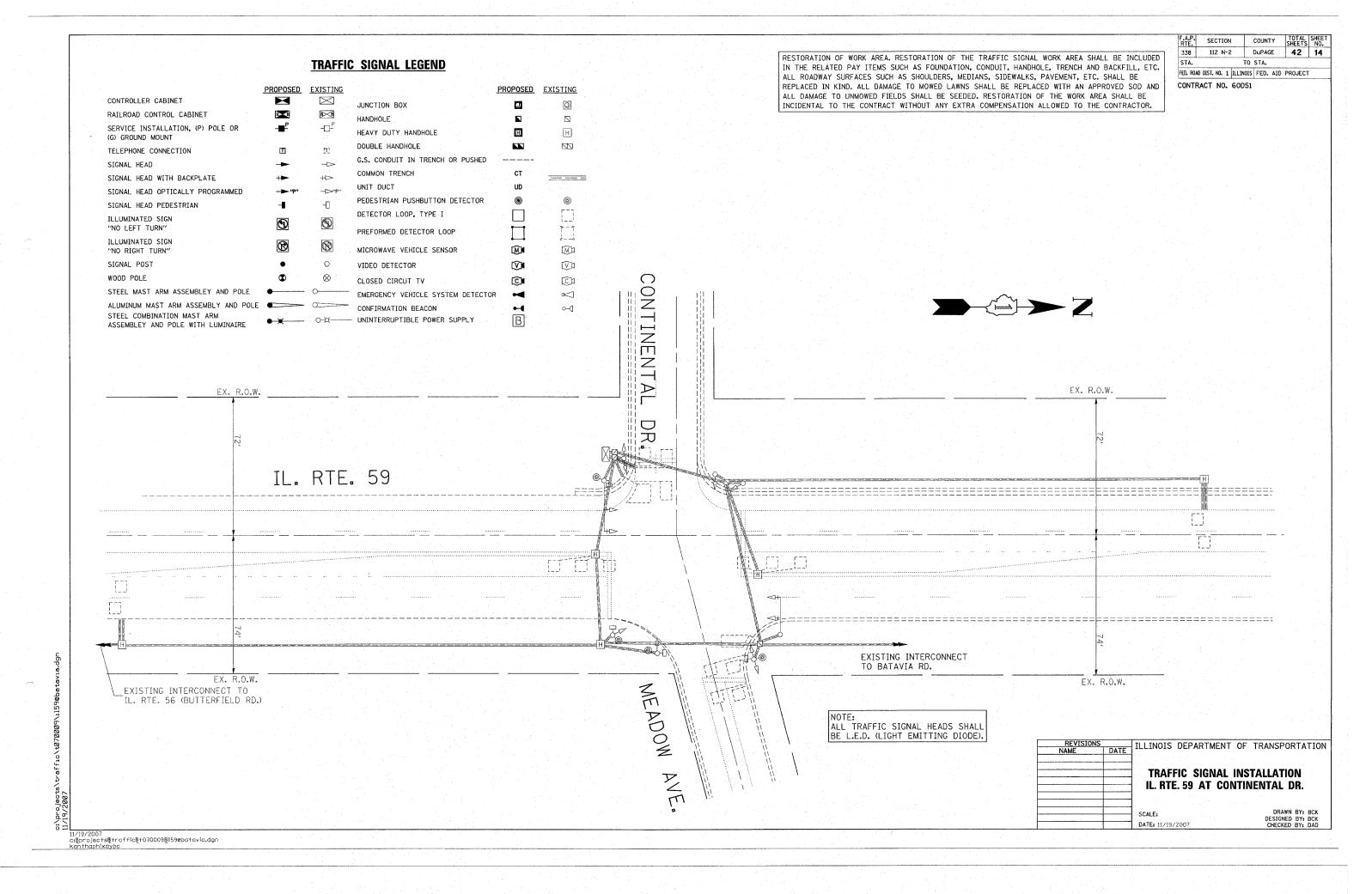
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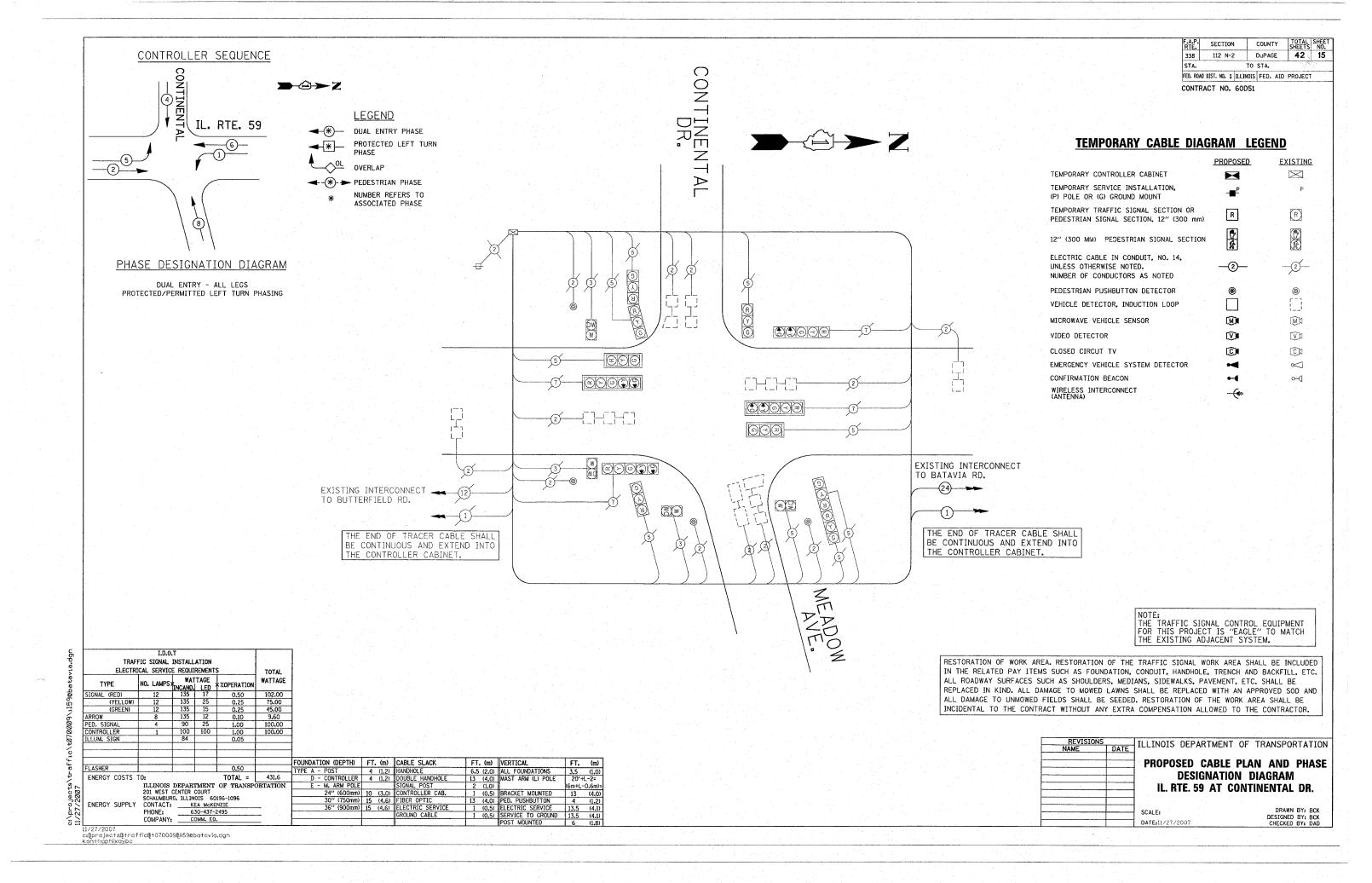
TOTAL = 431.6

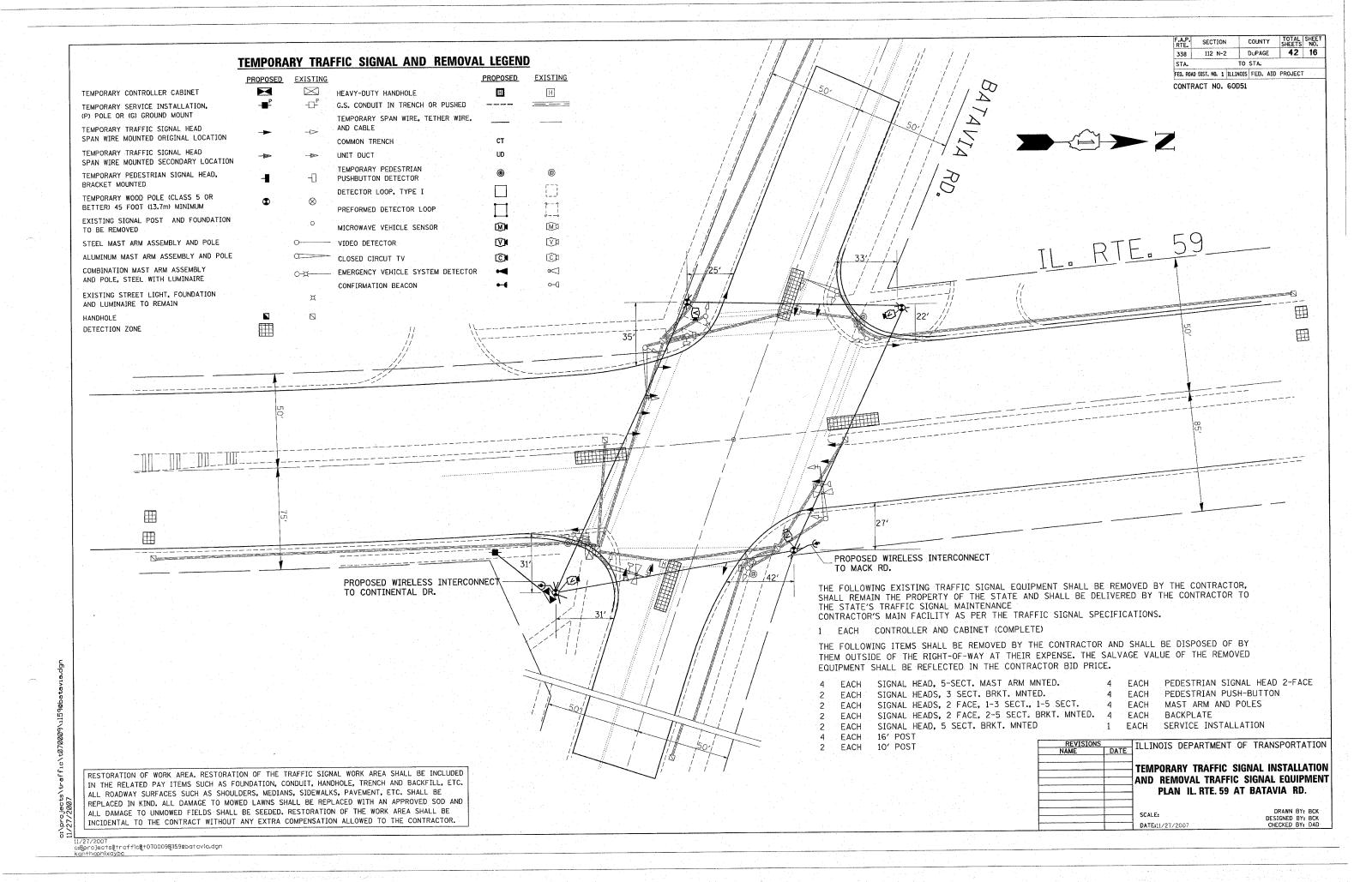
ILLINOIS DEPARTMENT OF TRANSPORTATION

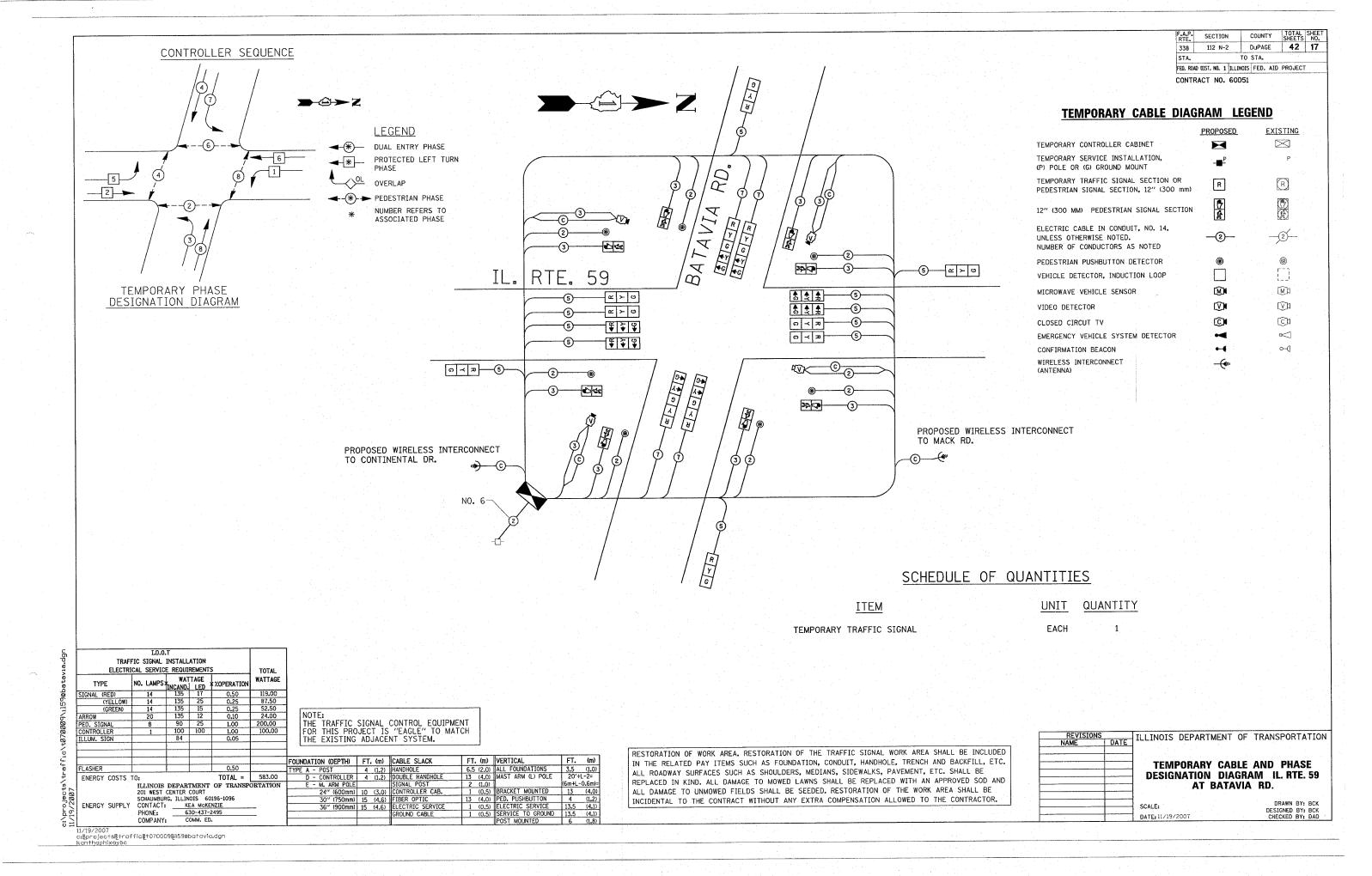
201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

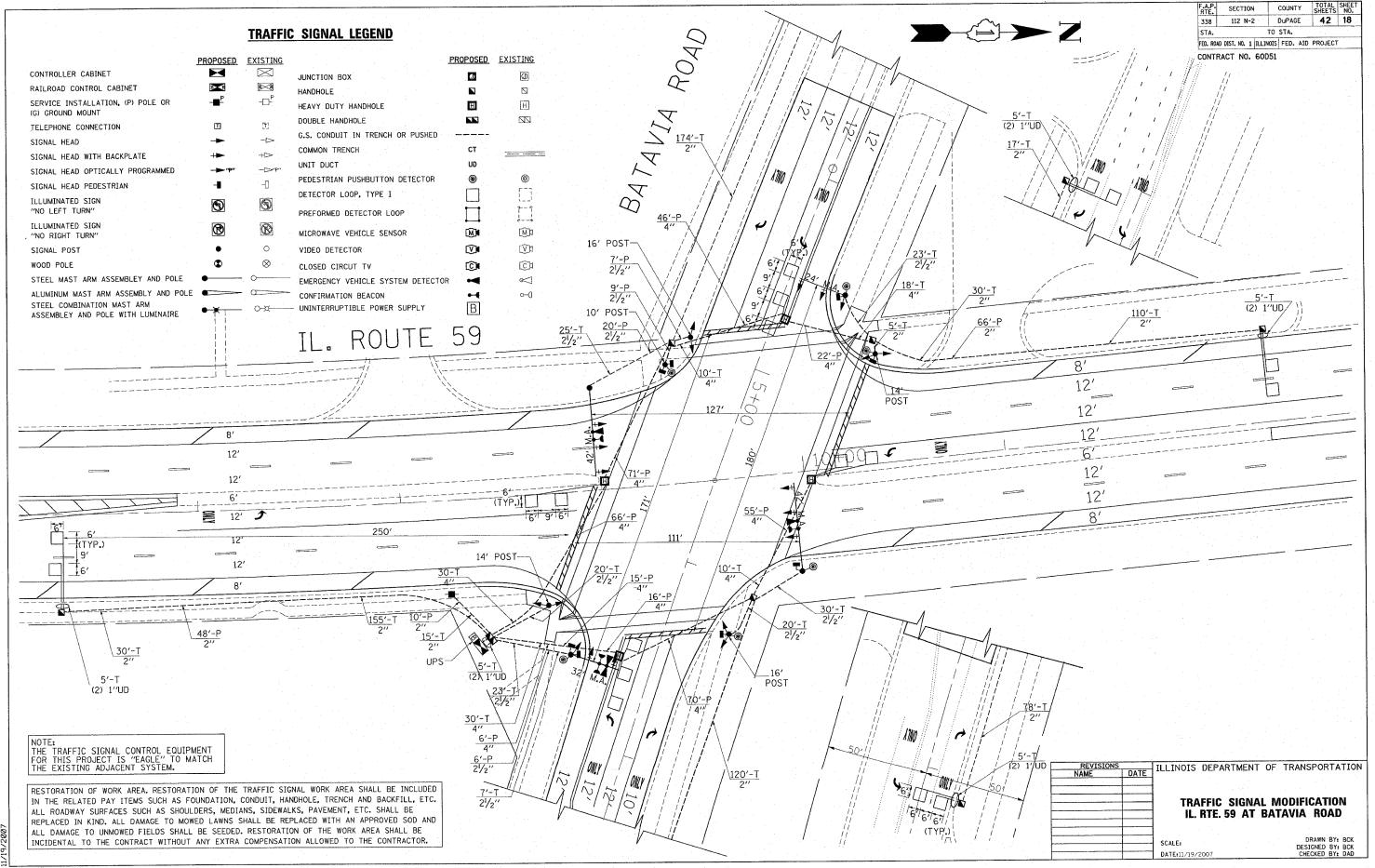
FOUNDATION (DEPTH) | FT. (m) | CABLE SLACK



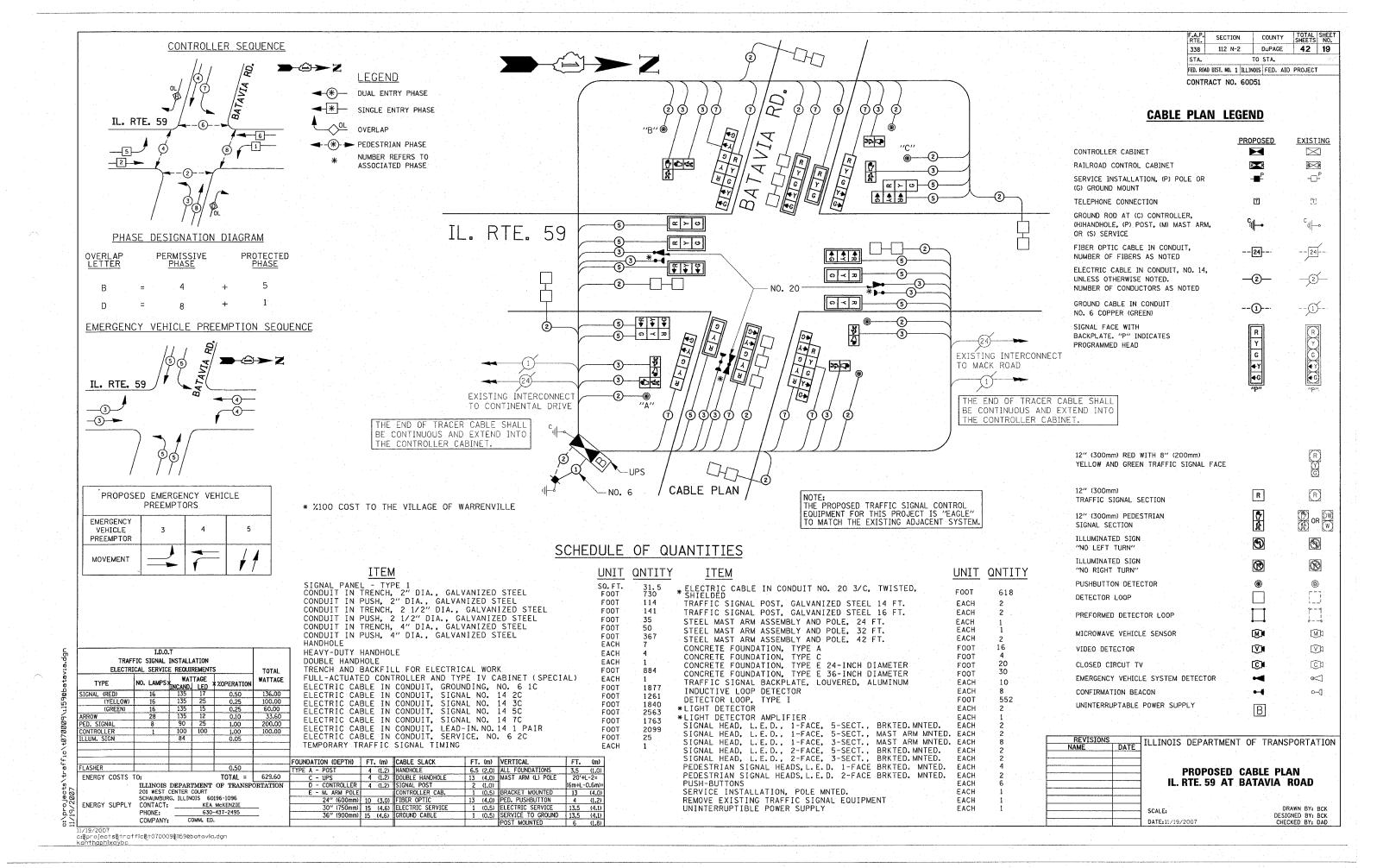








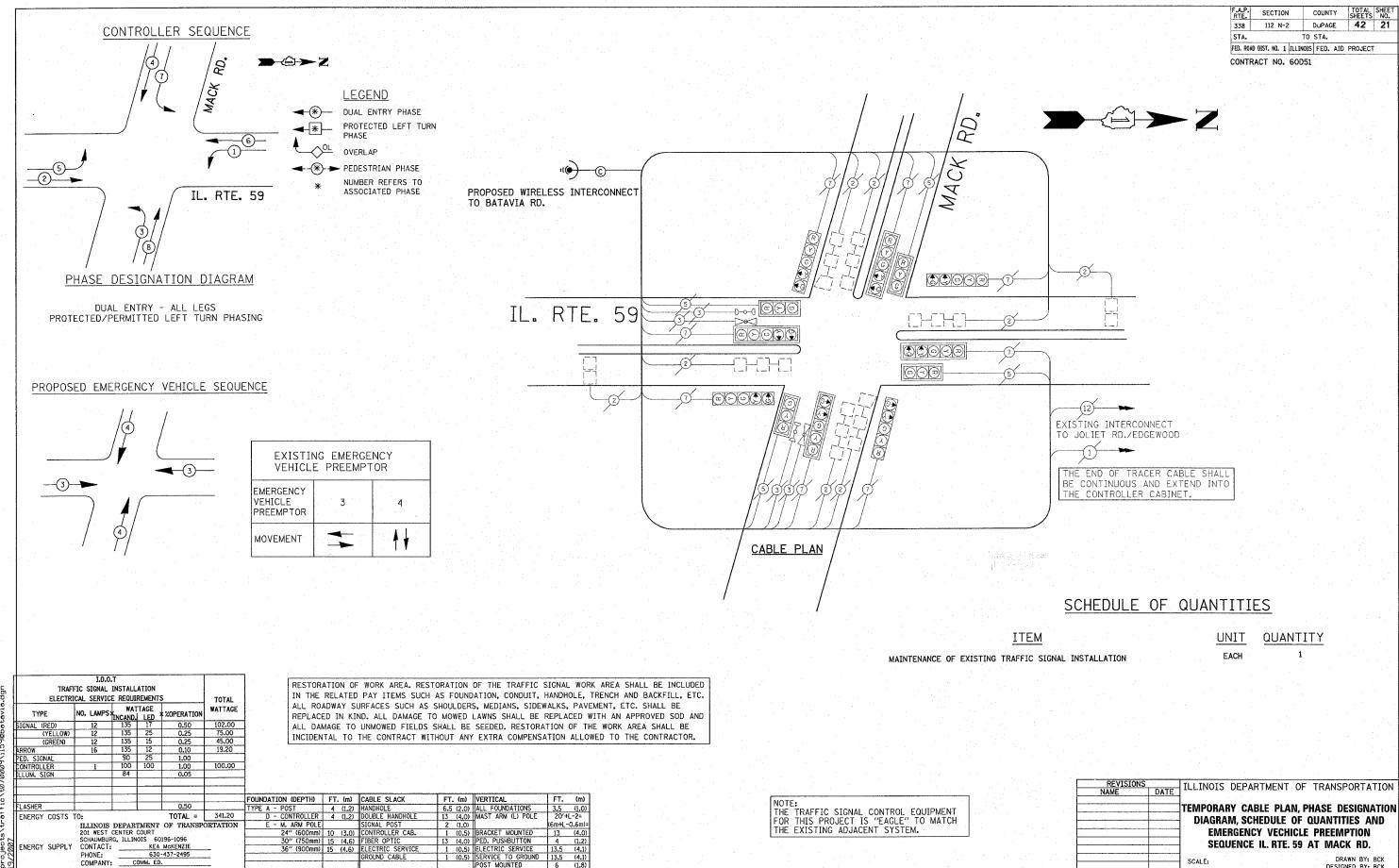
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SECTION COUNTY TEMPORARY TRAFFIC SIGNAL 338 112 N-2 DuPAGE 42 20 STA. TO STA. PROPOSED EXISTING PROPOSED EXISTING FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT \blacksquare TEMPORARY CONTROLLER CABINET \geq CONTRACT NO. 60D51 HEAVY-DUTY HANDHOLE H H -D-P TEMPORARY SERVICE INSTALLATION, G.S. CONDUIT IN TRENCH OR PUSHED ____ (P) POLE OR (G) GROUND MOUNT TEMPORARY SPAN WIRE, TETHER WIRE, TEMPORARY TRAFFIC SIGNAL HEAD AND CABLE SPAN WIRE MOUNTED ORIGINAL LOCATION COMMON TRENCH CT TEMPORARY TRAFFIC SIGNAL HEAD LINIT DUCT UD SPAN WIRE MOUNTED SECONDARY LOCATION TEMPORARY PEDESTRIAN TEMPORARY PEDESTRIAN SIGNAL HEAD, PUSHBUTTON DETECTOR BRACKET MOUNTED DETECTOR LOOP, TYPE I TEMPORARY WOOD POLE (CLASS 5 OR \otimes **(2**) BETTER) 45 FOOT (13.7m) MINIMUM PREFORMED DETECTOR LOOP EXISTING SIGNAL POST AND FOUNDATION MICROWAVE VEHICLE SENSOR M_{1} TO BE REMOVED STEEL MAST ARM ASSEMBLY AND POLE VIDEO DETECTOR ALUMINUM MAST ARM ASSEMBLY AND POLE CLOSED CIRCUT TV (C)1 COMBINATION MAST ARM ASSEMBLY EMERGENCY VEHICLE SYSTEM DETECTOR α AND POLE, STEEL WITH LUMINAIRE CONFIRMATION BEACON EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN REMOVAL R -REL-HANDHOLE \square RELOCATE DETECTION ZONE IL. RTE. 59 WIRELESS INTERCONNECT PROPOSED WIRELESS INTERCONNECT ---(-11 (ANTENNA) TO BATAVIA RD. EXISTING INTERCONNECT TO JOLIET RD./EDGEWOOD NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM. MACK RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEMS SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. DATE ILLINOIS DEPARTMENT OF TRANSPORTATION ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE CONTRACT WITHOUT ANY EXTRA COMPENSATION ALLOWED TO THE CONTRACTOR. TEMPORARY TRAFFIC SIGNAL **INSTALLATION PLAN IL. RTE. 59** AT MACK RD. DRAWN BY: BCK DESIGNED BY: BCK SCALE: DATE: 11/19/2007 CHECKED BY: DAD

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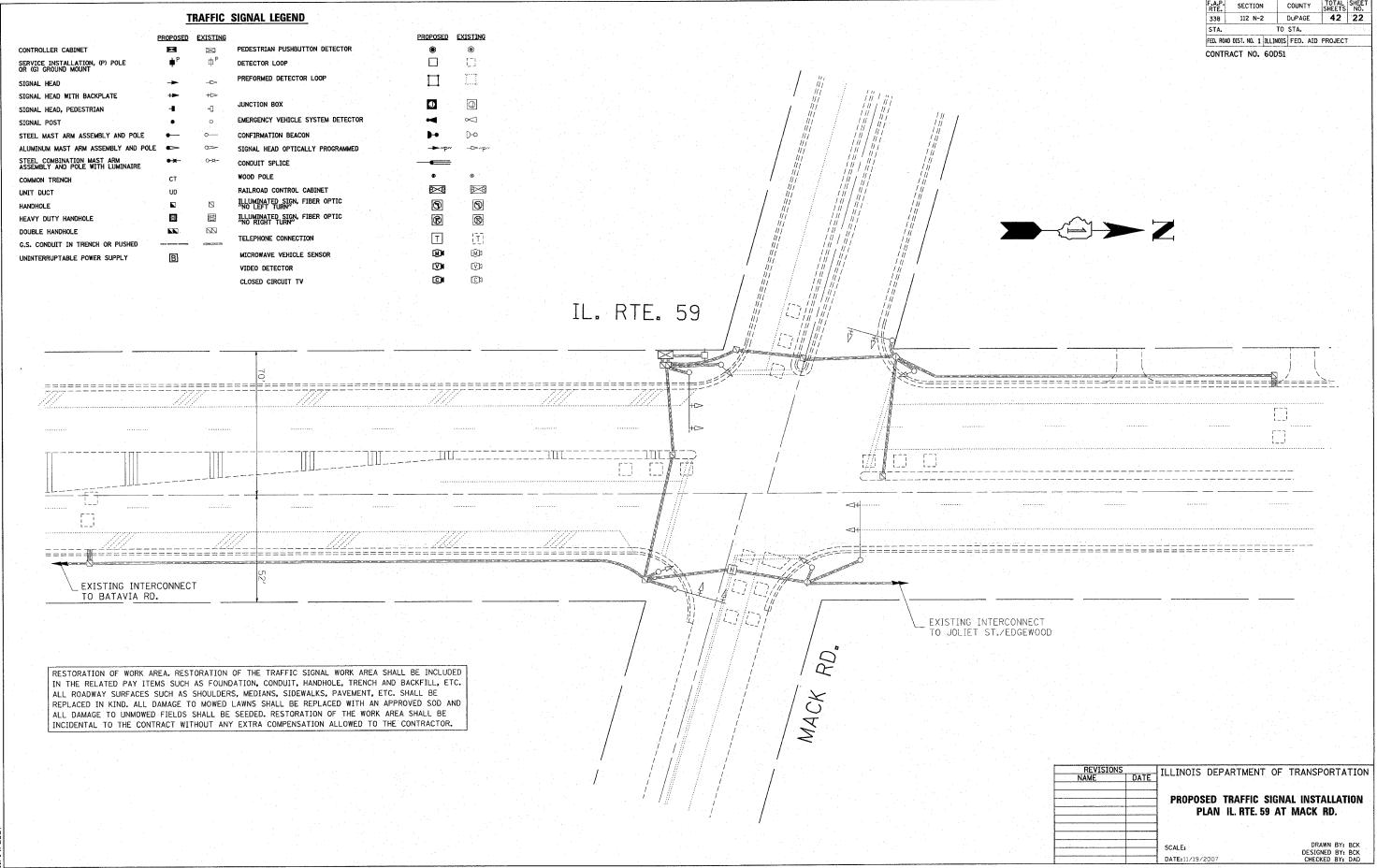
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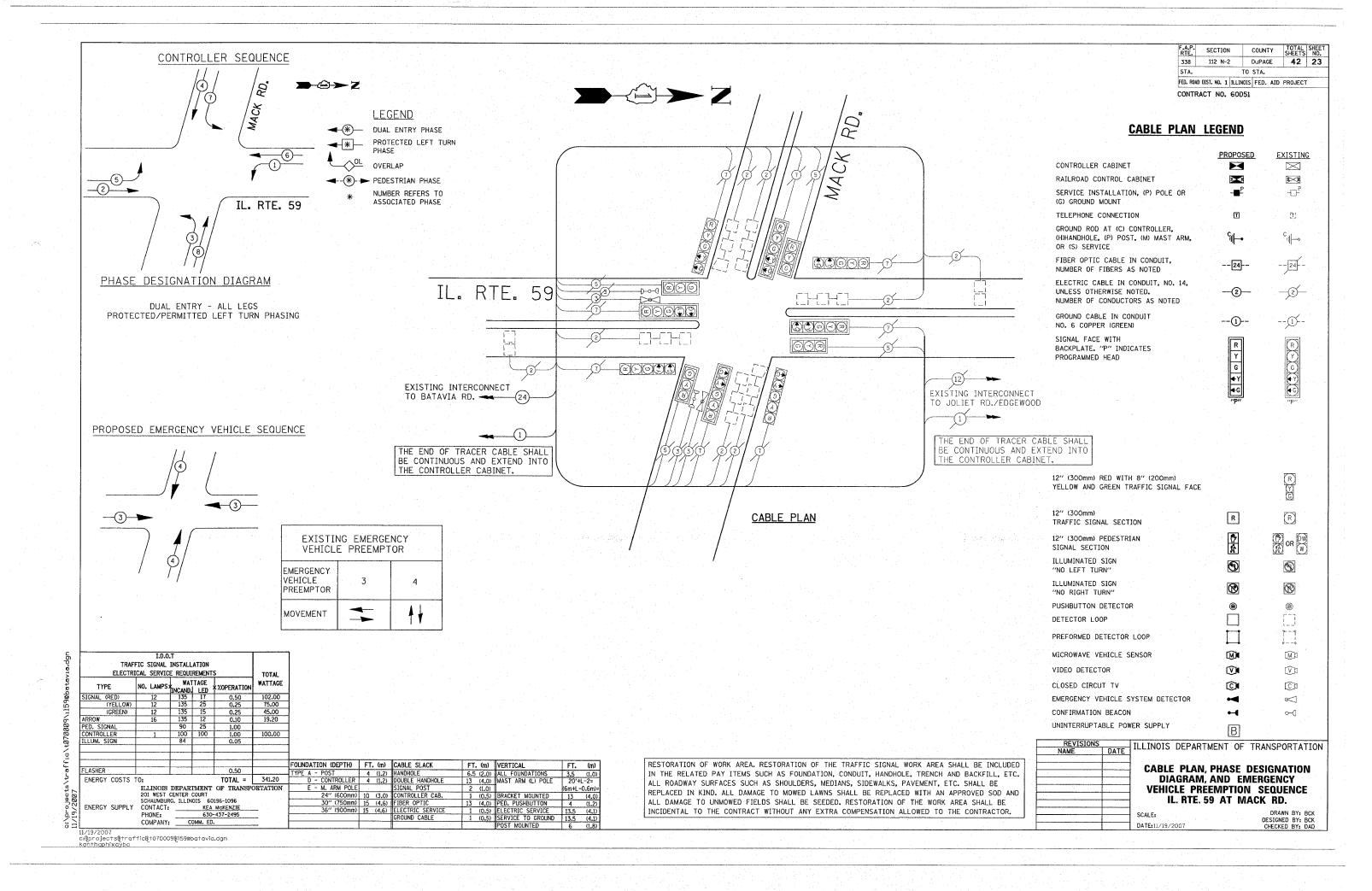
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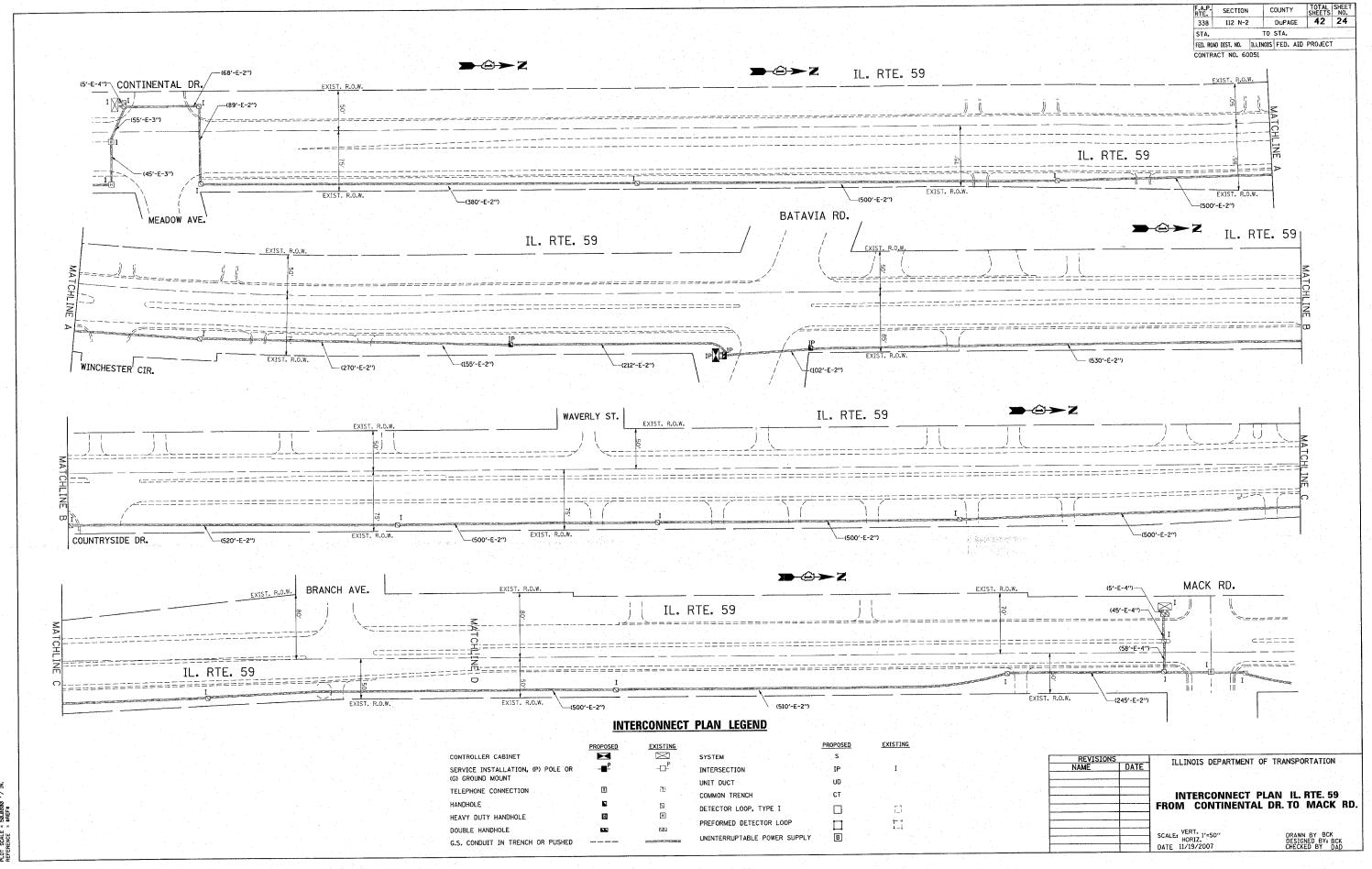
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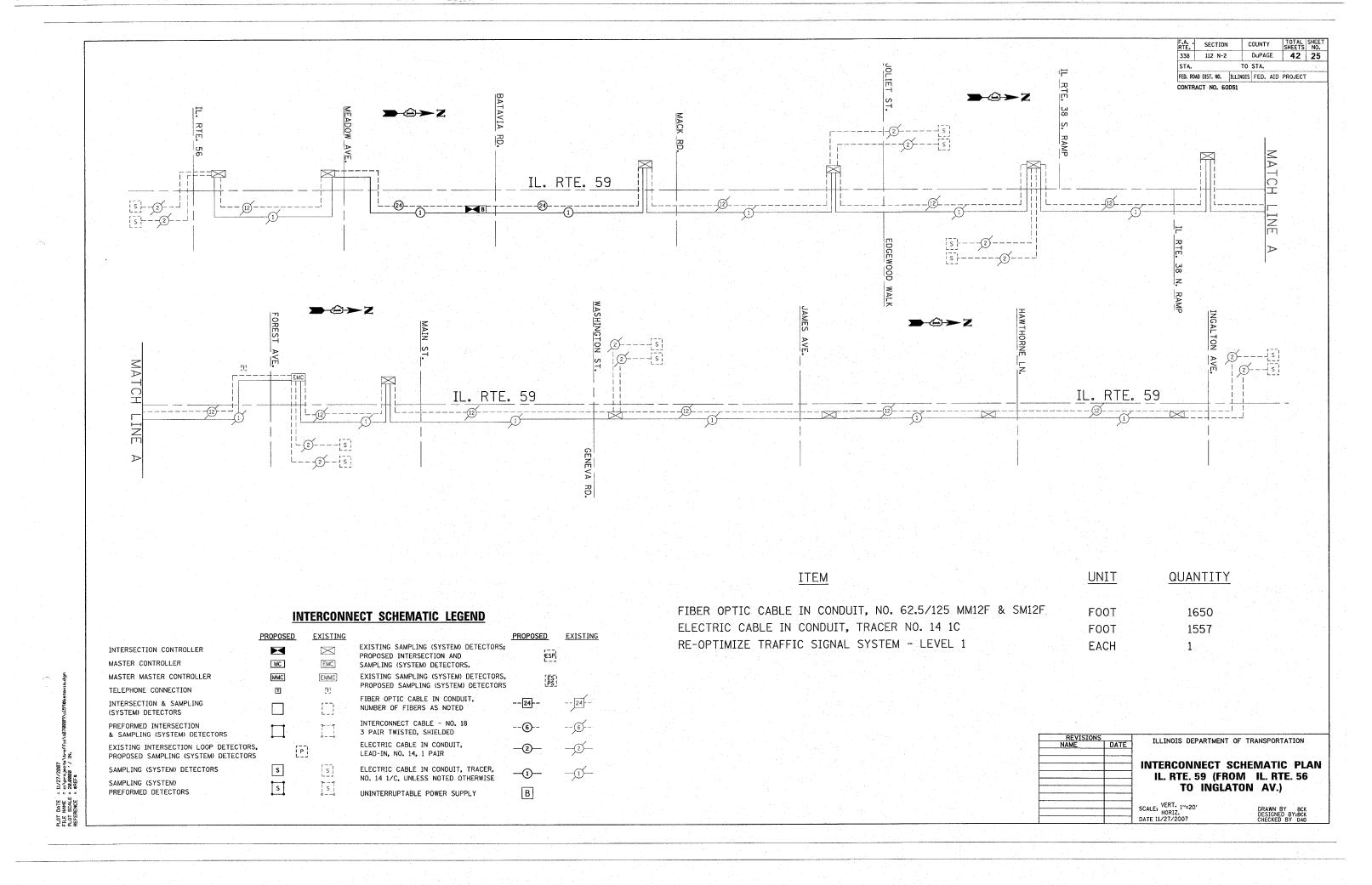
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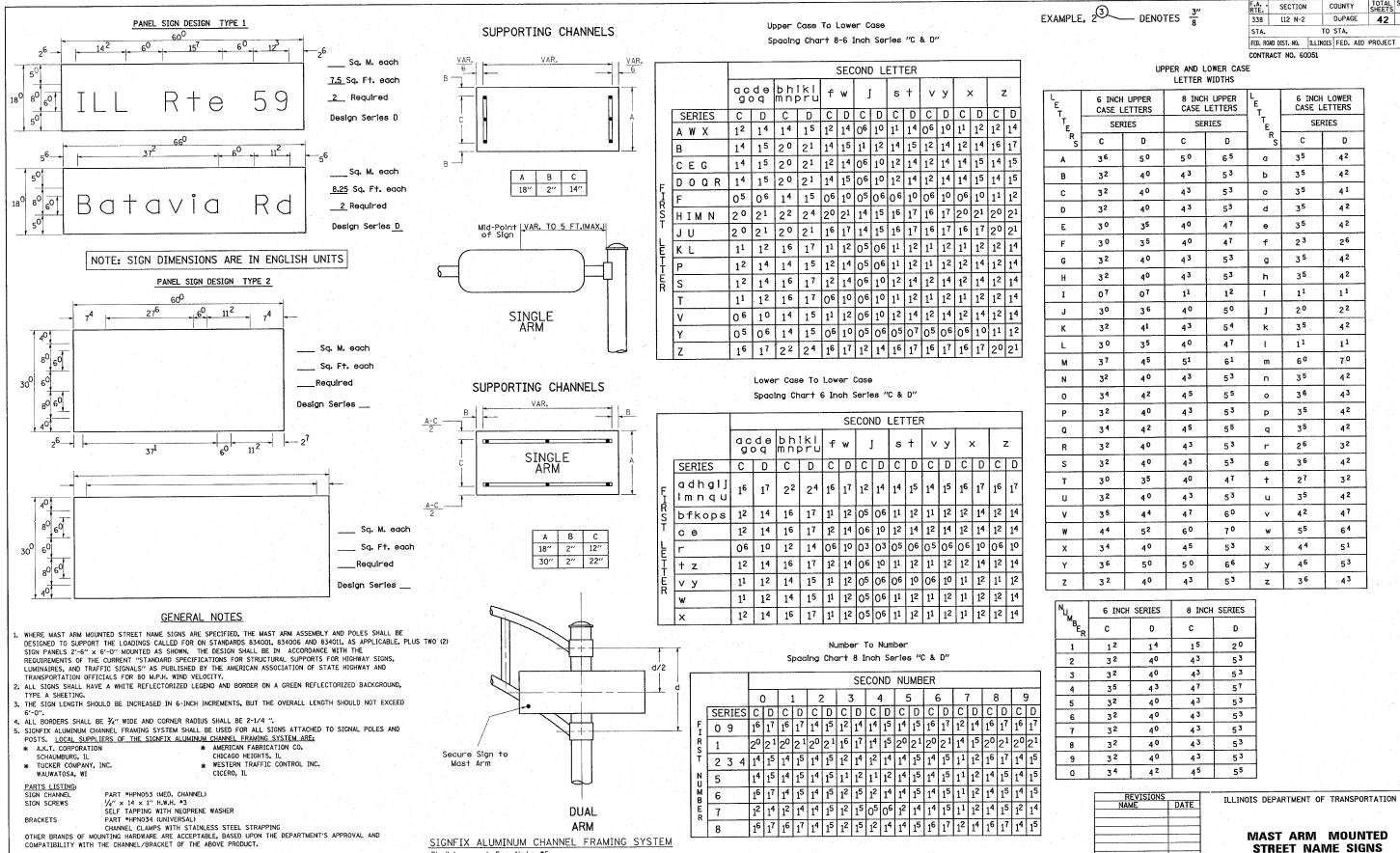
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DATE = 11/19/2007 NAME = ci\projects\traffic\t870009\\159abot SCALE = 50.0000 '/ IN.





Shall be used. See Note #5.

= 11/27/2007 = ci\projects\t = 20.0000 '/ 11 = \$REF\$ DATE NAME SCALE ENCE PLOT PLOT REFE

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SECTION

COUNTY

TO STA.

6 INCH LOWER

CASE LETTERS

SERIES

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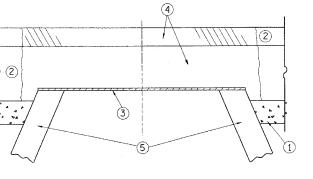
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 F.A.P. RTE.	SECTION	С	OUNTY	TOTAL	SHEET NO.
338	112 N-2		DUPAGE	42	27
STA. TO STA.					
FED. RO	AD DIST. NO. 1	ILLINOIS	FED. AID	PROJECT	



12 (300) MIN. 8 PROPOSED BRICK, MORTAR, OR CONC. PROPOSED SAND FILL ADJUSTING RINGS

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

SAND FILL

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

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

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

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

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 $1^{1}\!\!/_{2}$ (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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 3 36 (900) DIAMETER METAL PLATE PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 8 PROPOSED HMA SURFACE COURSE
- 5 EXISTING STRUCTURE
- PROPOSED HMA BINDER
 COURSE

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT

WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIO	ONS
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

FRAMES AND LIDS ADJUSTMENT WITH MILLING

ILLINOIS DEPARTMENT OF TRANSPORTATION

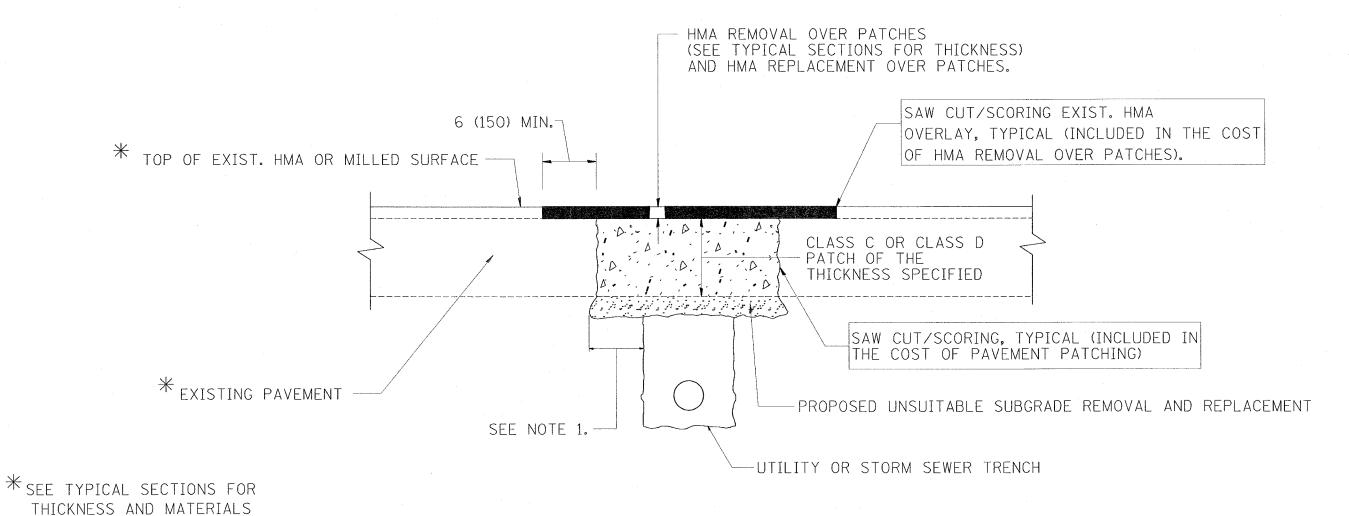
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REVISION DATE: 01/01/07

DATE NAME SCALE NAME





NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT. SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISION	ONS	THE THOSE DEPARTMEN	IT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMEN	II OF TRANSPORTATION
R. SHAH	10/25/94		
R. SHAH	01/14/95		
R. SHAH	03/23/95	PAVEMENT F	PATCHING FOR
R. SHAH	04/24/95	LIMA	URFACED
A. HOUSEH	03/15/96		
A. ABBAS	03/21/97	PAVI	EMENT
A. ABBAS	01/20/98		
ART ABBAS	04/27/98	SCALE: VERT. NONE	DO A WALL DV
P ROPO	01/01/07	SCALE: HODEY NOINE	DRAWN BY

CHECKED BY BD400-04 (BD-22) REVISION DATE: 01/01/07

RTE. SECTION COUNTY TOTAL SHEE SHEETS NO. 338 112 N-2 DUPAGE 42 29 TO STA. VARIABLE - TO MEET EXISTING FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT DIMENSIONS AND FIELD CONDITIONS (SEE NOTE (2)) PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE (2)) SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM. 18" (450) SEE STATE STANDARD 606001 MAX. EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE) $\frac{1}{4}$ " (5)** EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND. PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE(1)). EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT SUITABLE BACKFILL MATERIAL -3" (75) MIN. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT) * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE. PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST 米米 IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.) WITH THE PAVEMENT. NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY BEING REMOVED AND WILL BE PAID FOR SEPARATELY. THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE. BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE (2) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED. REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. (3) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS. PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT (4) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. BY THE ENGINEER. (SEE NOTE (3)). (5) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT. BASIS OF PAYMENT: (6) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR OF THE STANDARD SPECIFICATIONS. "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

(7) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

REVISION	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE HORIZ. PLOT DATE: 11/6/2007

BD600-06 (BD-24)

CONTRACT NO. 60D51

REVISION DATE: 01/01/07

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "C")
(NOTE "E") PROP. HMA SURFACE REMOVAL EXIST. HMA EXIST. PAVEMENT MILLED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 1 PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING SAW CUT (INCLUDED IN THE COST OF HMA SURFACE (NOTE "C") (NOTE "E") PROP. HMA SURFACE REMOVAL REMOVAL - BUTT JOINT) 13/4 (45) FOR E AND F MIX 4'-6" (1.35 m) PAY LIMIT FOR BUTT JOINT 1/2 (40) FOR C AND D MIX (NOTE "D") EXIST. HMA SURF. EXIST. PAVEMENT TEMP, HMA RAME HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 2 TYPICAL TEMPORARY RAMP HMA TAPER LENGTH *** SAW CUT (INCLUDED IN THE COST PROP. HMA SURF. CRSE. PROP. HMA BINDER CRSE. 4'-6" (1.35 m) _VARIES _ 13/4 (45) FOR E AND F MIX PAY LIMIT FOR BUTT JOINT (NOTE "D") 11/2 (40) FOR C AND D MIX EXIST. HMA EXIST. PAVEMENT HMA SURF. REMOVAL - BUTT JOINT

BUTT JOINT AND

HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT 30'-0" (9.0 m) (NOTE "A") EXIST. HMA OR PCC SURFACE SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 13/4 (45) FOR E AND F MIX 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH * * VARIES PROP. HMA SURF. CRSE. 13/4 (45) FOR E AND F MIX PROP. HMA BINDER CRSE. 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT HMA TAPER DETAIL TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY * * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

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

** \times 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

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

DATE
6-13-90
7-3-90
3-27-92
09/09/9
10/25/9
03/21/9
04/06/0
01/01/0

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE HORIZ. NONE PLOT DATE: 11/7/2007

DRAWN BY

BD400-05 (VI=BD32)

REVISION DATE: 01/01/07

CONTRACT NO. 60D51

TOTAL SHEE

COUNTY

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TO STA.

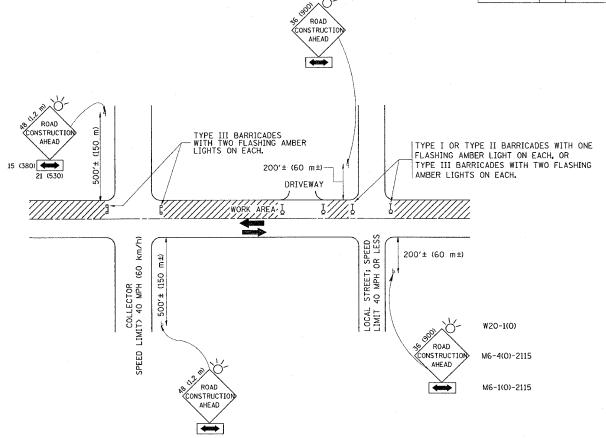
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ME = 11//2007 ME = P:\diststd\bd32.dgn ALE = 49.9999 '/ IN.

CONTRACT NO. 60D51 COUNTY TOTAL SHEET SHEETS NO. F.A.P. RTE. 338 SECTION 112 N-2 DUPAGE 42 31 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. 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:
- 9) ONE ROAD CONSTRUCTION AHEAD SIGN 36 × 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE
- 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 \times 48 (1.2 m \times 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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.

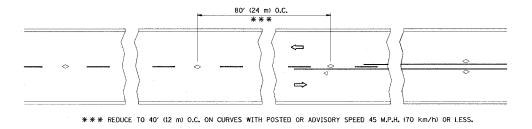
REVISIONS		THE THOTS DEPARTMEN	NT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMEN	I OF TRANSPORTATION
LHA	6/89	TRAFFIC CONTRO	L AND PROTECTION
T. RAMMACHER	09/08/94	I INALITE CONTINO	L AND INCILCITON
J. OBERLE	10/18/95	l F	FOR
A. HOUSEH	03/06/96	CIDE DOADS IN	TERSECTIONS, AND
A. HOUSEH	10/15/96	SIDE ROADS, IN	TERSECTIONS, AND
T. RAMMACHER	01/06/00	DRIV	/EWAYS
		SCALE:	DRAWN BY
		DATE: 11/6/2007	CHECKED BY

TC-10

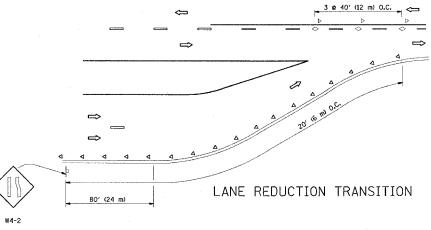
REVISION DATE:01/06/00

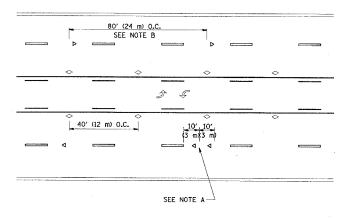
DATE NAME SCALE NAME



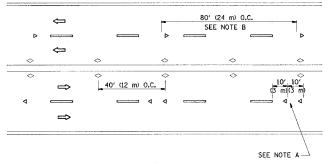


TWO-LANE/TWO-WAY

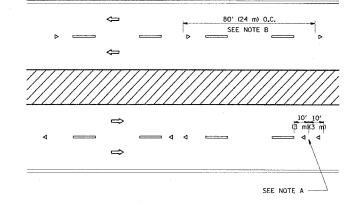




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

--- YELLOW STRIPE

WHITE STRIPE

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

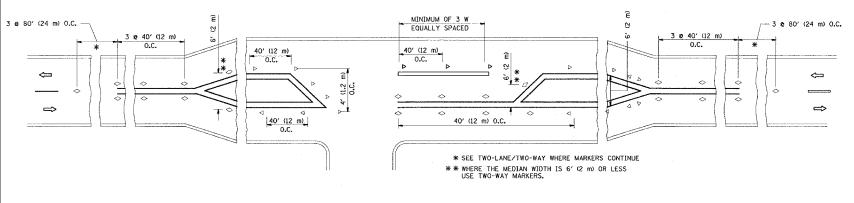
All dimensions are in millimeters (inches) unless otherwise shown.

DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
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09-19-94	TV070.11
03-12-99	TYPICAL APPLICATIONS
01-06-00	RAISED REFLECTIVE PAVEMENT
	MARKERS (SNOW-PLOW RESISTANT
	03-12-99

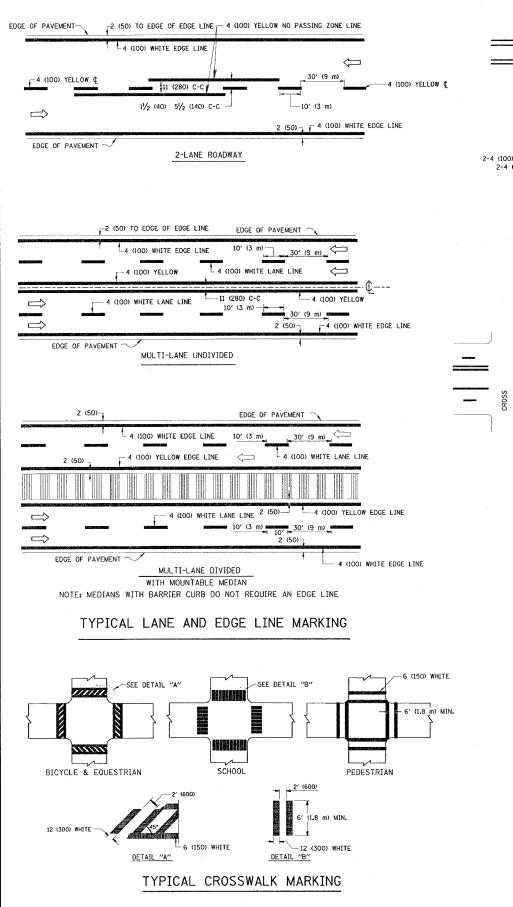
SCALE: NONE DATE: 11/7/2007

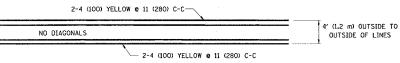
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TC-11 REVISION DATE: 01/06/00

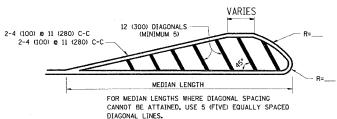


LEFT TURN



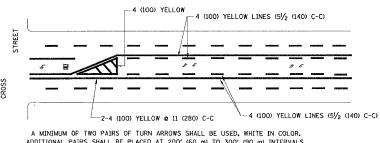


4' (1.2 m) WIDE MEDIANS ONLY

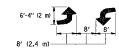


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

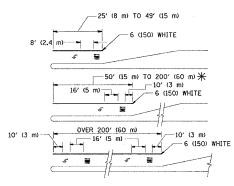


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

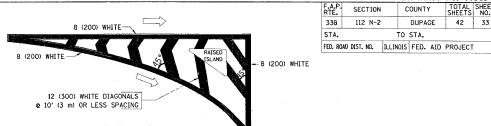


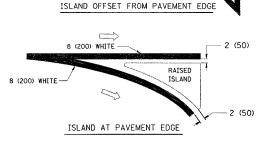
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \uparrow AREA = 15.6 SQ. FT. (1.5 m²) (11 AREA = 20.8 SQ. FT. (1.9 m²)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING





TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 6 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 & 4 (100)	SOLID SOLID	YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (500) APART 2' (500) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	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
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	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 (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

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

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

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	03-19-90 10-27-94 10-09-96 10-17-96

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT **MARKINGS**

SCALE: NONE DATE: 11/7/2007

DRAWN BY CADD CHECKED BY

TC-13

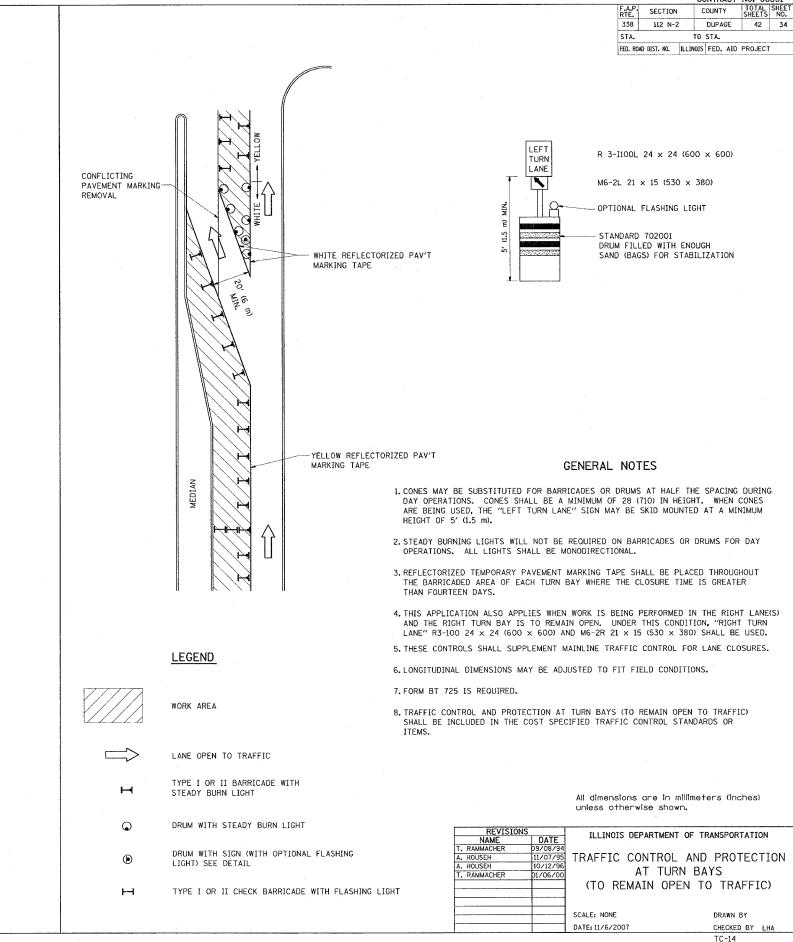
REVISION DATE: 01/06/00

CONTRACT NO. 60D51

42

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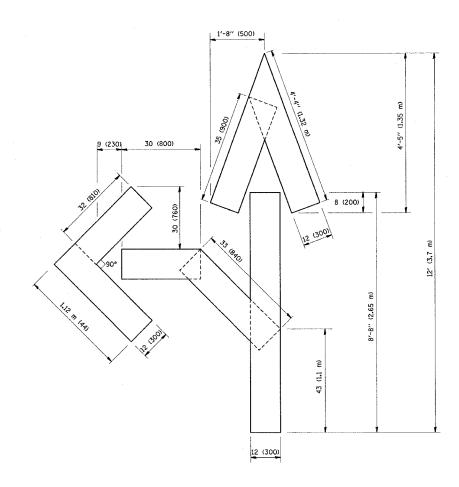
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REVISION DATE: 01/06/00

CONTRACT NO. 60D51

 F.A.P. RTE. 338
 SECTION
 COUNTY COUNTY SHEETS NO.
 TOTAL SHEET NO.

 338
 112 N-2
 DUPAGE
 42
 35
 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

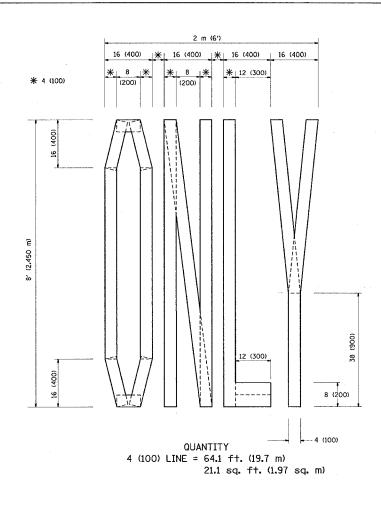
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
F. GOMEZ	08/28/00

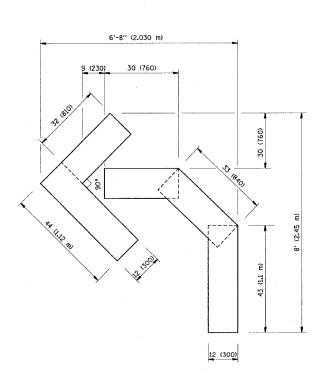
PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

ILLINOIS DEPARTMENT OF TRANSPORTATION

CALE: NONE DATE: 11/6/2007 DRAWN BY CADD CHECKED BY TC-16

REVISION DATE: 08/28/00



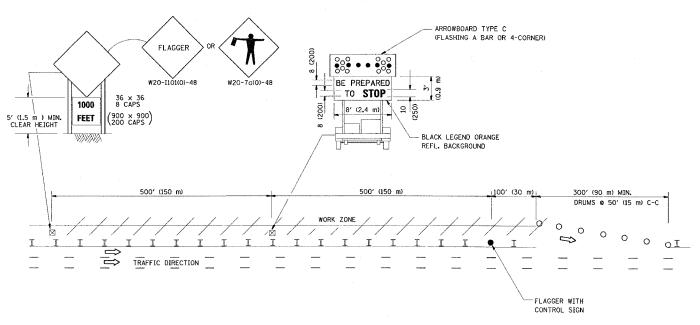


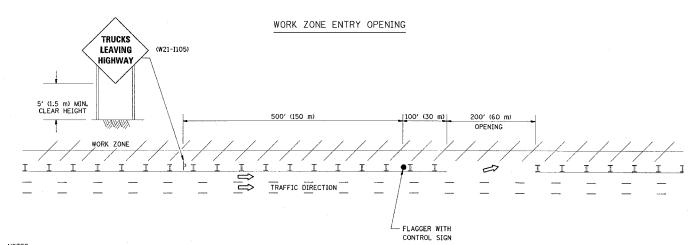
QUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)

PLOT DATE = 11/6/2007 FILE NAME = Pt\diststd\tol6.dgm PLOT SCALE = 49,9999 '/ IN. USER NAME = comparten

CONTRACT NO. 60D51 TOTAL SHEET SHEETS NO. F.A.P. SECTION COUNTY 338 112 N-2 DUPAGE 42 36 SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS STA. TO STA. FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

WORK ZONE EXIT OPENING





- 1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
- 2. Work Zone Exit Openings should be a minimum of one half mile apart.
- 3. Exiting the work zone at any place other than at a Work Zone Exit Opening will
- 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

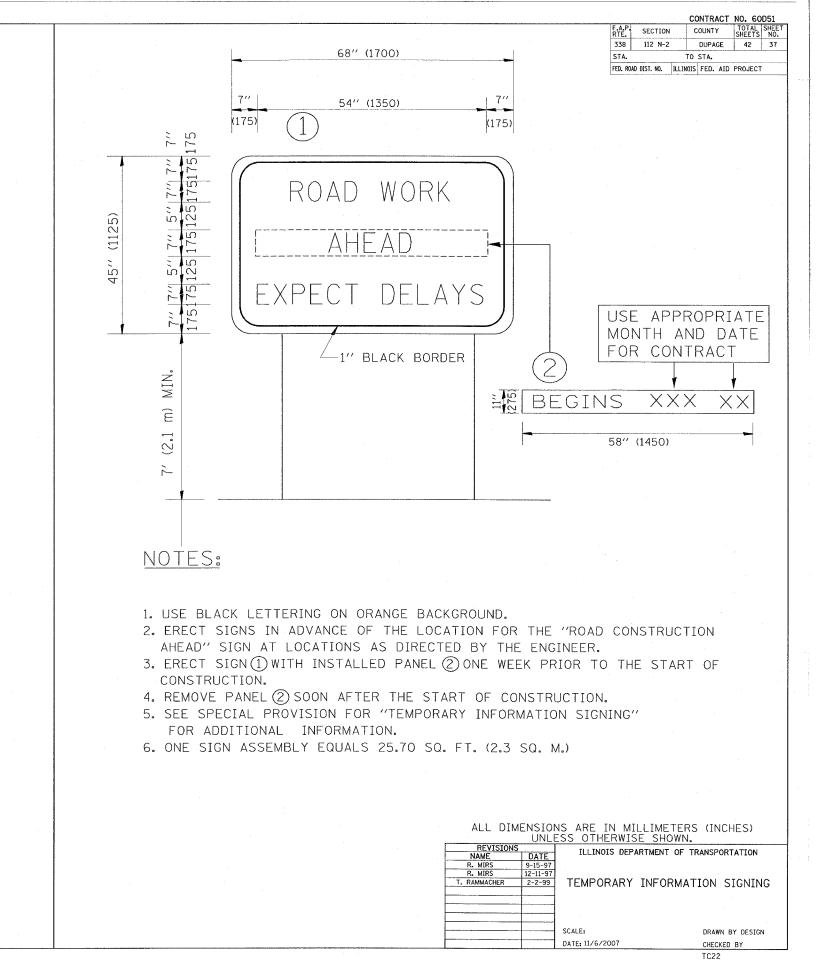
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN

REVISIONS		THE THOTS	DEPARTMENT OF TRANSPORTATION
NAME	DATE	ILLINOIS	DECARIMENT OF TRANSPORTATION
DWS	8/98		
JAF	4/03		
JAF	2/06	SIGNING	FOR FLAGGING OPERATIONS
SPB	1/07	АТ	WORK ZONE OPENINGS

SCALE: NONE DRAWN BY CADD DATE: 11/6/2007 CHECKED BY

TC-18 REVISION DATE: 01/01/07

DATE = 11/6/2007 NAME = P:\diststd\toiB.dgn | SCALE = 50.000 / IN. | NAME = osmanhm



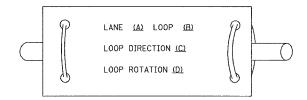
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LOT DATE = 11/ ILE NAME = P±\ LOT SCALE = 50. SER NAME = osr

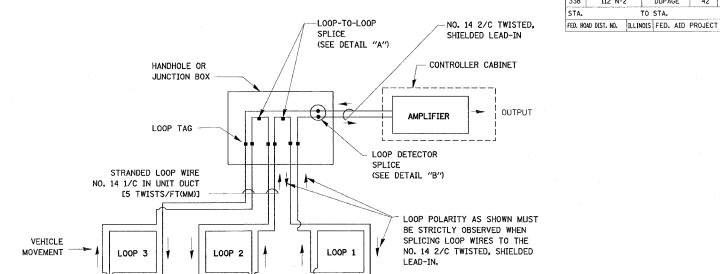
REVISION DATE: 02/02/99

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

LOOP LEAD-IN CABLE TAG

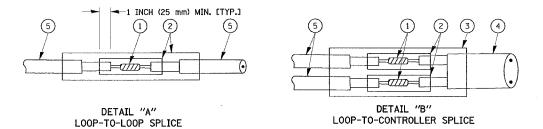


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). 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.



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.



CONTRACT NO. 60D51

TOTAL SHEETS NO. DUPAGE 42 38

COUNTY

TO STA.

SECTION

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

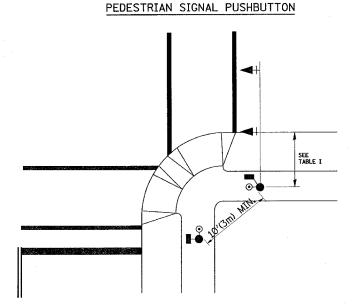
NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3,0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCO (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

PEDESTRIAN SIGNAL POST

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED

& FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND

> CURB, SHOULDER, OR EDGE OF PAVEMENT (SEE PLANS)

> > .

SEE TABLE I

PUSHBUTTON DETECTOR

2'(600 mm)

TYP.

5' (1.5m) MAX.

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

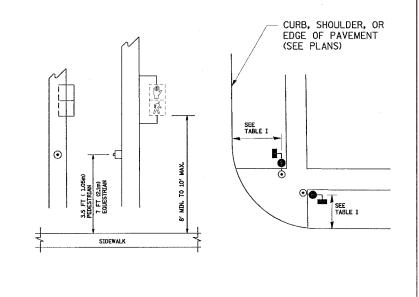


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)		
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)		
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)		
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)		
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1		

REVISIONS
NAME DATE
BUREAU OF TRAFFIC 1/01/02 ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS DRAWN BY: RWP DESIGNED BY: DAD CHECKED BY: DAZ SHEET 2 OF 4 SCALE: NONE

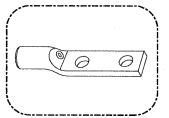
DATE: 11/7/2007

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REVISION DATE: 01/01/02

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 $3/4^{\prime\prime}$ DIA. \times 10'-0" (20mm \times 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
- 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 TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

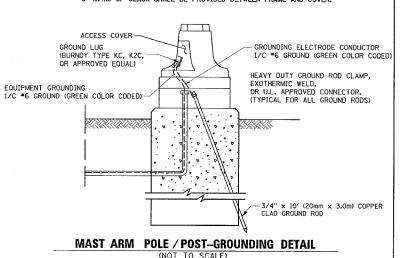


FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

NOTES:

ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED. • GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.





NOTES:

HANDHOLE COVER

DETAIL "A"

DETAIL "B"

RECESSED COVER

-U.L. LISTED

DIRECT BURIAL

GROUND CARLES

TO POLE OR

POST AS REO'D.

-- SEE DETAIL "B"

HANDHOLE COVER HANDLE

CAST CORNER FRAME WEB-

-STAINLESS STEEL NUT AND 2 STAINLESS STEEL WASHERS

SEE DETAIL "A"

CABLE HOOKS

REQUIRED, ALL

ULLISTED GROUND COMPRESSION CONNECTOR

UL LISTED GROUND

COMPRESSION CONNECTOR ---WITH STAINLESS STEEL NUT

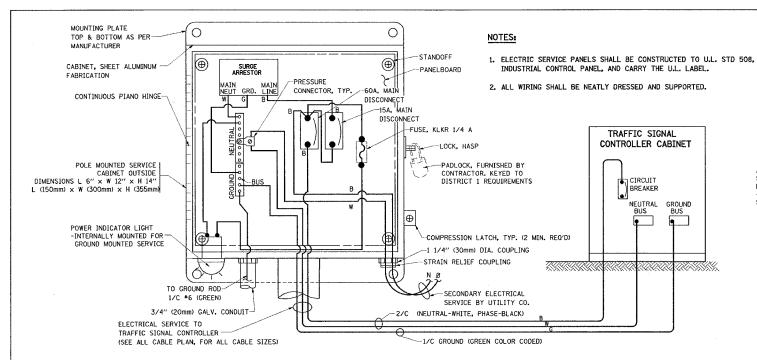
€1/C #6

(GREEN)

HANDHOLE COVER & FRAME - GROUNDING DETAIL

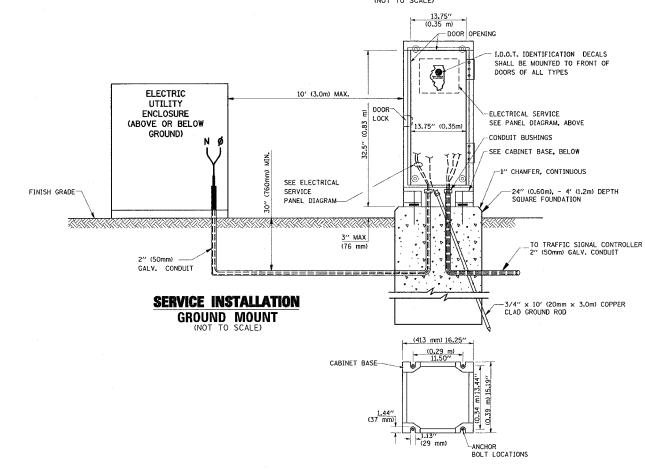
(NOT TO SCALE)

HANDHOLE FRAME



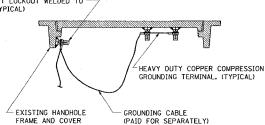
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)



CABINET - BASE BOLT PATTERN (NOT TO SCALE)

(2) 1/2" x 1 1/4" STAINLESS STEEL BOLT WITH SPLIT LOCK WASHER AND NYLON INSERT LOCKOUT WELDED TO FRAME AND TO COVER. (TYPICAL)

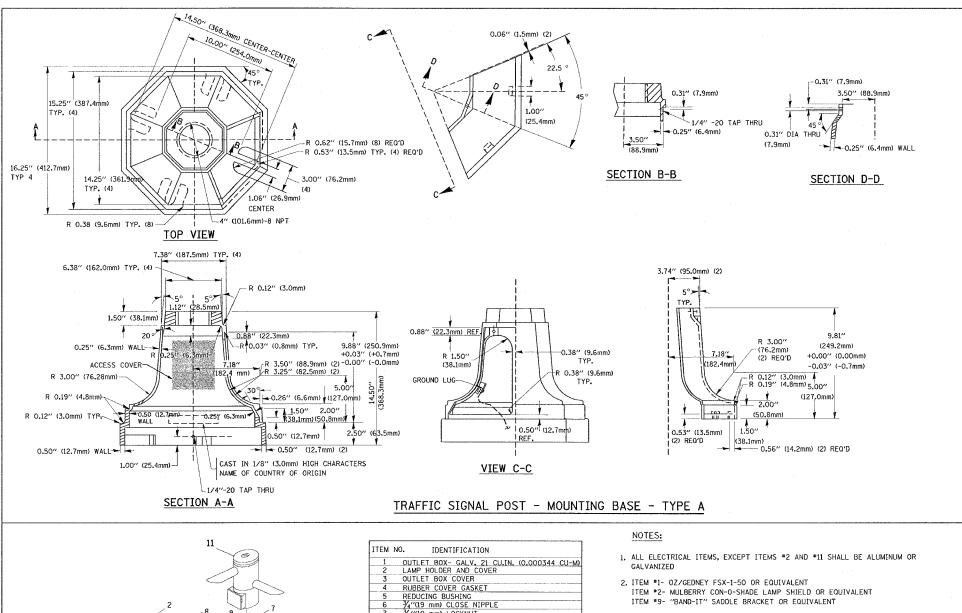


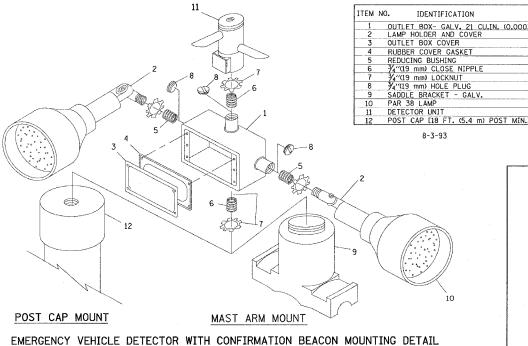
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL

(NOT TO SCALE)

PLOT FILE PLOT USER

REVISION DATE: 01/01/02

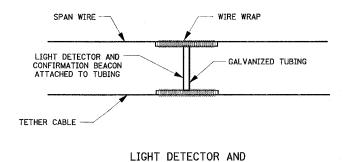




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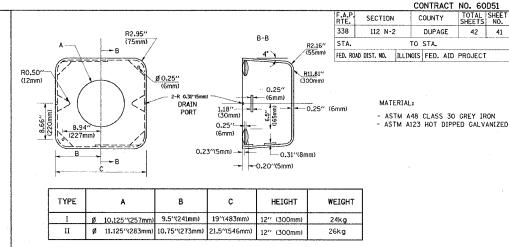
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NAME = osmanhm

3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/419 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

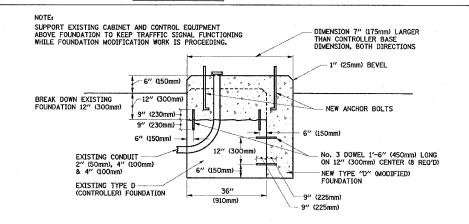


CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

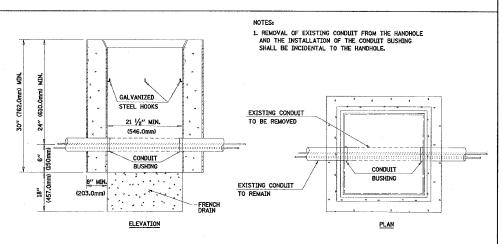


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT

REVISIONS DATE

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BUREAU OF TRAFFIC	5/30/00		
BUREAU OF TRAFFIC	3/15/01	DISTRICT	ONE
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BUREAU OF TRAFFIC	1-01-02	I STANDARD TRAFF	IC SI
		DESIGN DET	AILS
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		DATE: 11/7/2007	SHEET

TS05

SIGNAL

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISION DATE:01/01/02

LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER (1.5 m) (1.8 m) (1.5 m) 1" (25 mm) UNIT DUCT~TRENCHED (3.0 m) (3.0 m) TO E/P ** * = (600 mm) * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN. STRAIGHT SAW CUTS PERPENDICULAR TO MEDIAN (TYP.)

* = (600 mm) 6' (1.8 m) (900

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

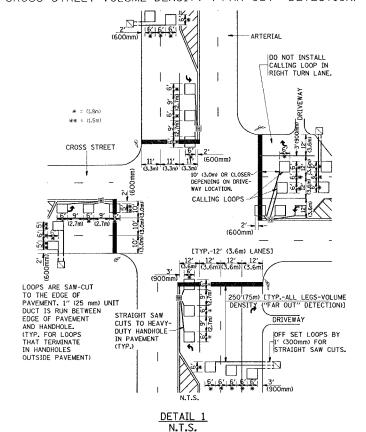
(PROTECTED / PERMITTED LEFT TURN PHASING)

(900 mn STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND

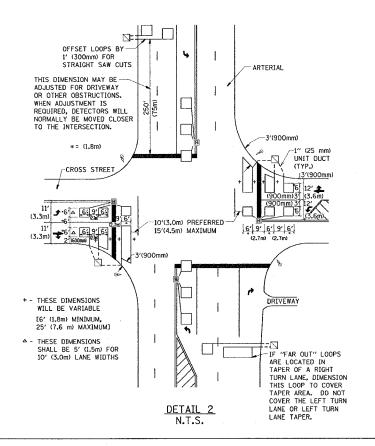
SECOND LOOP AS SHOWN.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION) CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



TOTAL SHEET NO. SECTION COUNTY 338 112 N-2 DUPAGE 42 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 60D51

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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 ALL 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, EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE 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 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.

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.

REVISIONS		TLLTNOTS	DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS		
			DISTR	ICT 1
			DETECTO	OR LOOP
		IN	STALLATI	ON DETAILS
		FOR	ROADWAY	RESURFACING
····				DESIGNED BY
		SCALE: NONE		DRAWN BY CADD
		DATE: 11/7/2007		CHECKED BY R.K.F.
				TSO7

REVISION DATE: