STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 365 / ILL 31 / ILL 56
I-88 RAMPS
SECTION: 97-N-2
INTERSECTION IMPROVEMENT &
TRAFFIC SIGNAL
PROJECT: ACHSIP-0365(010)
KANE COUNTY
C-91-047-10

PROJECT BEGINS
STA. 233+92.02

AURORA TOWNSHIP

D-91-047-10



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED

OCTOBER 13 20 09

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

OCCUMBEN 4, 20 09

Charles O. Ingersold (18)

ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2009

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

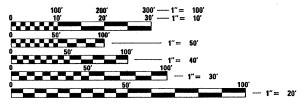
FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROJECT IS LOCATED IN THE VILLAGE OF NORTH AURORA



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DAN WILGREEN (847) 705–4240 PROJECT MANAGER: KEN ENG

CONTRACT NO. 60148

GROSS LENGTH OF PROJECT = NET LENGTH OF PROJECT = 1,285 FEET (0.24 MILES)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION		
1.	TITLE SHEET	000001-05	STAND
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	606001 <i>-04</i>	CONCR
3-4	SUMMARY OF QUANTITIES	606301- <i>04</i>	PC CO
5	TYPICAL SECTIONS	701601-06	URBAN
6	ROADWAY & PAVEMENT MARKING PLANS	701701- 06	URBAN
7-14	TRAFFIC SIGNAL PLANS	701901-01	TRAFF
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)	720001 <i>-01</i>	SIGN
16	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)	814001- <i>02</i>	CONCR
17	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	814006 <i>-02</i>	DOUBL
18	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	857001- <i>01</i>	STAND
19A-19D	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)	877001 <i>-04</i>	STEEL
20	SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS (TC-18)	878001- <i>08</i>	CONCR
21 .	ARTERIAL ROAD INFORMATION SIGNING (TC-22)	880001-01	SPAN
		880006-01	TRAFF
		886001- <i>01</i>	DETEC
		886006-07	TYPIC

STATE STANDARDS

	000001 <i>-05</i>	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
	606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
	606301-04	PC CONCRETE ISLANDS AND MEDIANS
	701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
	701701- 06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
	701901- <i>01</i>	TRAFFIC CONTROL DEVICES
	720001 <i>-01</i>	SIGN PANEL MOUNTING DETAILS
5	814001- <i>02</i>	CONCRETE HANDHOLES
	814006 <i>-02</i>	DOUBLE HANDHOLES
	857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
	877001 <i>-04</i>	STEEL MAST AREM ASSEMBLY AND POLE
	878001- <i>08</i>	CONCRETE FOUNDATION DETAILS
	880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
	880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
	886001-01	DETECTOR LOOP INSTALLATIONS
	886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
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GENERAL NOTES:

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE NORH AURORA.

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

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 45 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

10 FEET (3 METER) TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

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

ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.

TWO WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS, CONTACT DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER AT (847) 741 9857-.

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

THE UNIT WEIGHT (CONVERSION FACTOR) QUOTED IS FOR THE ESTIMATING PLAN QUANTITIES ONLY. ACTUAL QUANTITIES TO FULFILL CONTRACT REQUIREMENTS WILL BE DETERMINED BASED ON UNIT WEIGHT OF APPROVED MIX DESIGN, PLAN DIMENSIONS, AND DENSITY LIMITATIONS. MAXIMUM PAYMENT WILL BE COMPUTED BASED ON WEIGHT AVERAGE DENSITIES OF THE IN-PLACE MIXTURE.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

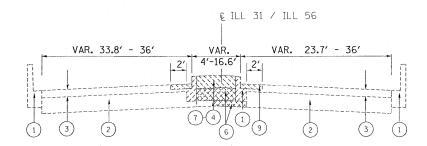
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STATE	OF	ILLINOIS
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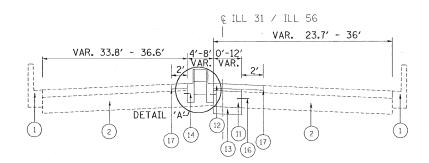
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	SUMMARY OF QUANTITIES		URBAN				ION TYPE CODE				SLIMMAR	Y OF QUANTITIES		<u> </u>			ONSTRUCT	ION TYPE	CODE	
	JOHNWANT OF QUANTITIES		TOTAL	1000-2A	TRAF. SIG. YO31-1F						JOHNIAN	or domitified		URBAN TOTAL	1000 <i>-2A</i>	TRAF. SIG.				
CODE NO	ITEM	TINU	QUANTITIES	90% FED.		100% VIII AGE OF			-	CODE NO		ITEM	UNIT	OUANTITIES	90% FED.		100%			
35300600	PORTLAND CEMENT CONCRETE BASE COURSE	SQ YD	229	229					•	81000600	CONDUIT IN TR	RENCH, 2" DIA., GALVANIZED	FOOT	575		575				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.2	0.2		i i				81000700		RENCH, 2 1/2" DIA.,	FOOT	5		5				
40600300	AGGREGATE (PRIME COAT)	TON	0.8	0.8							GALVANIZED ST									
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.4	0.4						81000800	STEEL	RENCH, 3" DIA., GALVANIZED	FOOT	48		48				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	10	10					•	81001000	STEEL STEEL	RENCH, 4" DIA., GALVANIZED	FOOT	10		10				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1						81018500	CONDUIT PUSHE	ED, 2" DIA., GALVANIZED	FOOT	62		62				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	47	47					•	81018900		ED, 4" DIA., GALVANIZED	FOOT	266		266		·		
42001300	PROTECTIVE COAT	SQ YD	362	362							STEEL									
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	371	371			-			81400100 81400200	HANDHOLE HEAVY-DUTY HA	NDHOLF	EACH	6		6				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1108	1108						81400200	DOUBLE HANDHO		EACH	1		1				
	MEDIAN REMOVAL	SQ FT	3669	3669						81900200		ACKFILL FOR ELECTRICAL WORK	FOOT	633		633				
44003100	STRIP REFLECTIVE CRACK CONTROL	FOOT	287	287						85000200	MAINTENANCE O	OF EXISTING TRAFFIC SIGNAL	EACH	2		2				
60603800	COMBINATION CONCRETE CURB AND GUTTER.	FOOT	1092	1092					•	85700205		CONTROLLER AND	EACH	1		1				
60618300	TYPE B-6.12 CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	953	953					.	86400100	TYPE IV CABIN TRANSCEIVER -		EACH	1		1				
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SO FT	30	30						87301225	ELECTRIC CABL	E IN CONDUIT, SIGNAL	FOOT	722			722			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							NO. 14 3C								-	
67100100	MOBILIZATION	L SUM	1	1					•	87301245	ELECTRIC CABL	E IN CONDUIT, SIGNAL	FOOT	1811		1811				-
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1					•	87301255	ELECTRIC CABL	E IN CONDUIT, SIGNAL	FOOT	886		886	-			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					•	87301305	ELECTRIC CABL	E IN CONDUIT, LEAD-IN. IR	FOOT	2147		2147				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	12	12					-	87301805		E IN CONDUIT, SERVICE.	FOOT	76		76				
72000100	SIGN PANEL - TYPE 1	SO FT	15		15					87700180	NO. 6 2 C	RM ASSEMBLY AND POLE, 28	EACH	1		1				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	109.2	109. 2							FT.				-					
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2552	2552					•	87700190	FT.	RM ASSEMBLY AND POLE, 30	EACH	1		1				
78000400	THERMOPLASTIC PAVEMENT MARKING	FOOT	750	750					•	87700210	STEEL MAST AR FT.	M ASSEMBLY AND POLE, 34	EACH	1		1				
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	65	65					•	87700300	STEEL MAST AR FT.	M ASSEMBLY AND POLE, 52	EACH	1		1				
78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	74	74						87800150		IDATION, TYPE C	FOOT	4		4				
70100155	- LINE 24"		000	0.0						87800400	30-INCH DIAME	IDATION, TYPE E TER	FOOT	15		15				
78100100 78300105	RAISED REFLECTIVE PAVEMENT MARKER PAVEMENT MARKING REMOVAL	FOOT	28 2556	2556					.	87800415	CONCRETE FOUN 36-INCH DIAME	DATION, TYPE E	FOOT	45		45				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	17	17								. ·								
						,			•	SPECIALTY	ITEM									
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- 1		SUMMARY OF QUANTITIES		URBAN			CONSTRUCT	ON TYPE	CODE	ODE		SUMMAR	MMARY OF QUANTITIES					ONSTRUCTI	ON TYPE	CODE	
				TOTAL	1000-2A	TRAF. SIG. YO31-1F	EVP Y031-3D								TOTAL	I000-2A	TRAF. SIG. YO31-1F	EVP Y031-3D			
c	ODE NO	ITEM	UNIT	QUANTITIES		901.FED. 101.STATE	100% VILLAGE OF NORTH AURORA				CODE NO		ITEM	UNIT	QUANTITIES	90% FED. 10% STATE	90% FED. 10% STATE	100% VILLAGE OF NORTH AURORA			
• 81	8030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	7		. 7															
- 8	8030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1															
• 88	8030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1										,					
• 8	8030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	3		3															
• 8	8030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2		2											-				
. 8	8200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	10	,	10															
. 8	8500100	INDUCTIVE LOOP DETECTOR	EACH	9		9															
. 8	8600100	DETECTOR LOOP. TYPE I	FOOT	624		624											-				
. 8	8700200	LIGHT DETECTOR	EACH	4			4														
. 8	8700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1														
. 8	9000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1								Lagrania							
. 8	9502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7647		7647															
• 8	9502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOCT	575		575									* .						
• 8	9502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1															
. 8	9502380	REMOVE EXISTING HANDHOLE	EACH	9		9															
. 8	9502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	5		5															
x	0322256	TEMPORARY INFORMATION SIGNING	SO FT	77.1	77.1																
- x	0323412	REMOVE EXISTING SERVICE INSTALLATION	EACH	1		1															
• x	0325737	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1															
• X	0325890	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1		1													۸		
• x	8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	a Lindon and a contract of the														
. x	8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1	Adversaria de la constanta de								·						
• x	8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	2895		2895	And the second s									,					
• x	8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOCT	453		453															
• x	8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	722			722													·	
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											• SPECIALTY	ITEM					-				Rev
	_E NAME =		ESIGNED		REVISED	-				CTATE OF	HIMOR		ILL 31 /	/ ILL 56 AT I-8	38 RAMP		F.A.P RTE.				TOTAL SHEE SHEETS NO.
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EXISTING TYPICAL SECTION
ILL 31/ ILL 56
STA. 233+92.02 TO STA. 236+79



PROPOSED TYPICAL SECTION

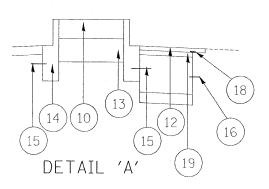
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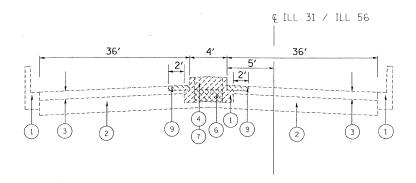
STA. 233+92.02 TO STA. 236+79

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS
RESURFACING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% ⊚ 90 GYR
LEVELING BINDER (MACHINE METHOD), N70	4% @ 70 GYR

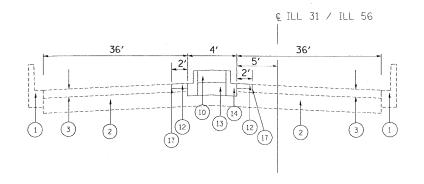
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/ SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.





EXISTING TYPICAL SECTION
ILL 31/ ILL 56
STA. 236+79 TO STA. 240+45
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

ILL 31/ ILL 56

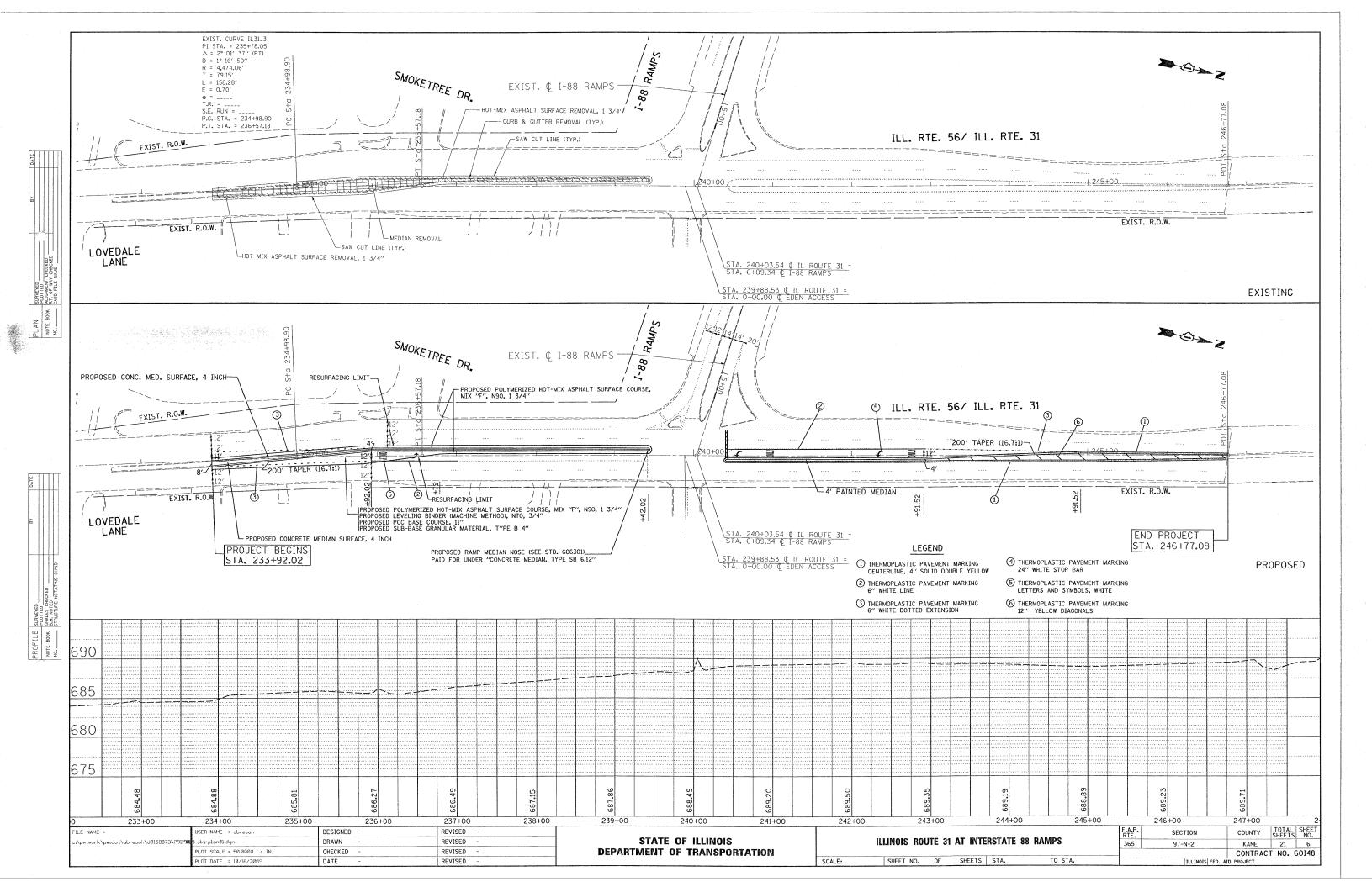
STA. 236+79 TO STA. 240+45
(LOOKING NORTH)

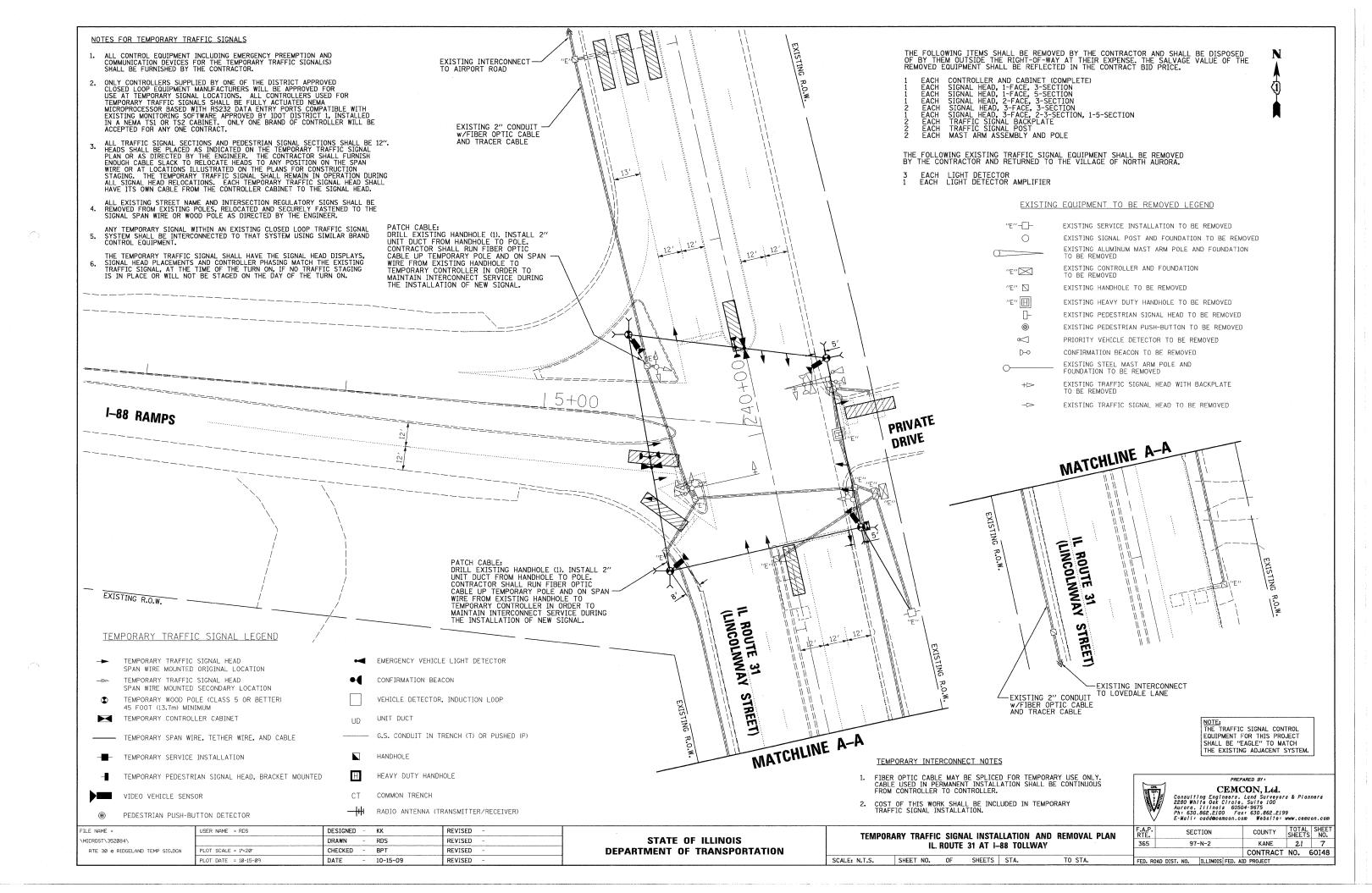
LEGEND

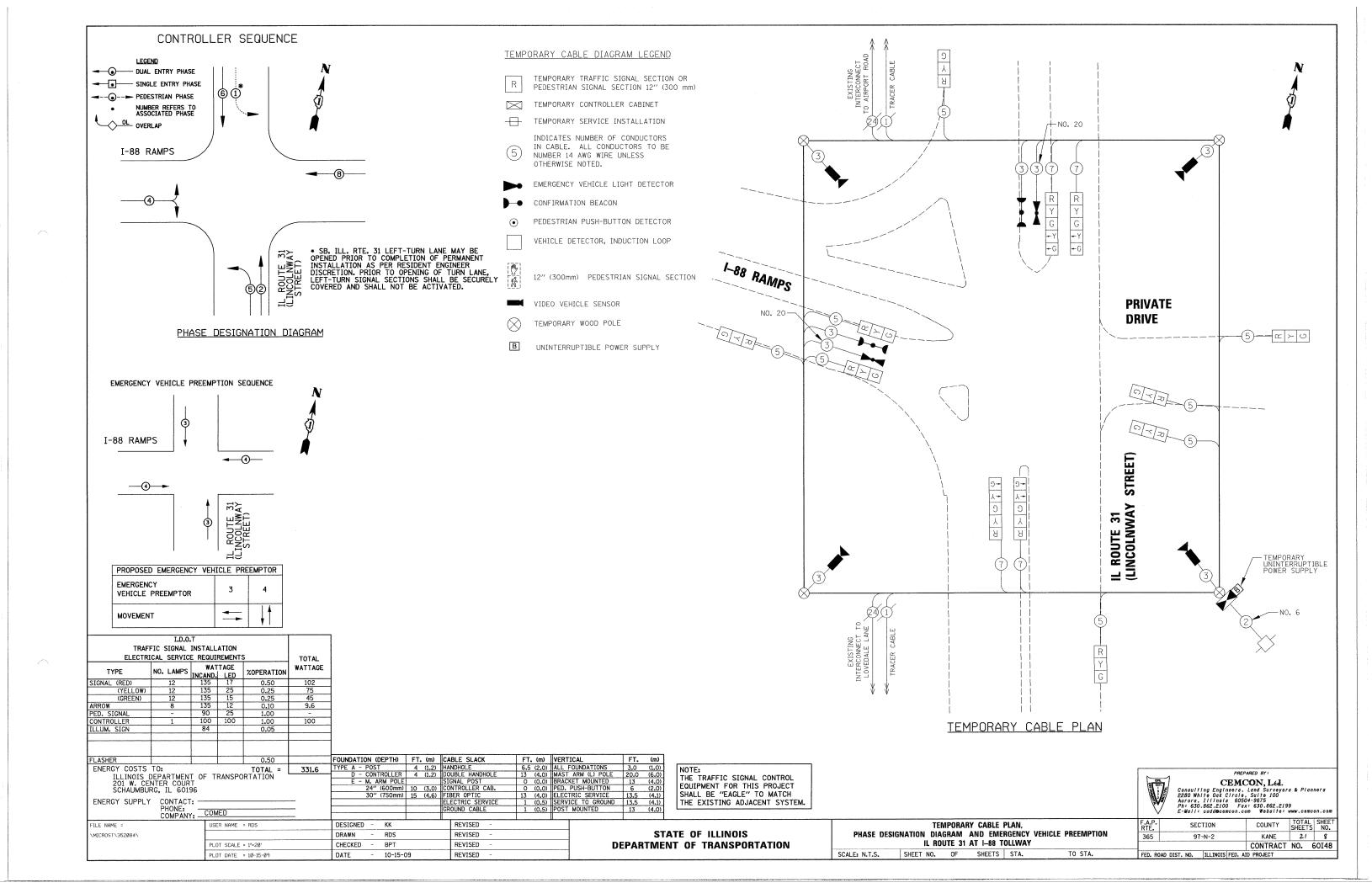
- 1 EXISTING COMBINATION CONCRETE CURB & GUTTER
- 2 EXISTING PCC PAVEMENT ±11"
- (3) EXISTING HMA OVERLAY ±3 1/4"
- 4 EXISTING HMA MEDIAN
- (5) EXISTING GRASS MEDIAN
- PROPOSED EARTH EXCAVATION (TO BE INCLUDED IN THE COST OF MEDIAN REMOVAL ITEM)
- (7) PROPOSED MEDIAN REMOVAL
- 8 PROPOSED CURB & GUTTER REMOVAL (SAW CUT & REMOVAL OF HMA OVERLAY OVER GUTTER SHALL BE INCLUDED IN THE PRICE OF REMOVAL)
- (9) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- (10) PROPOSED CONCRETE MEDIAN SURFACE, 4 INCH

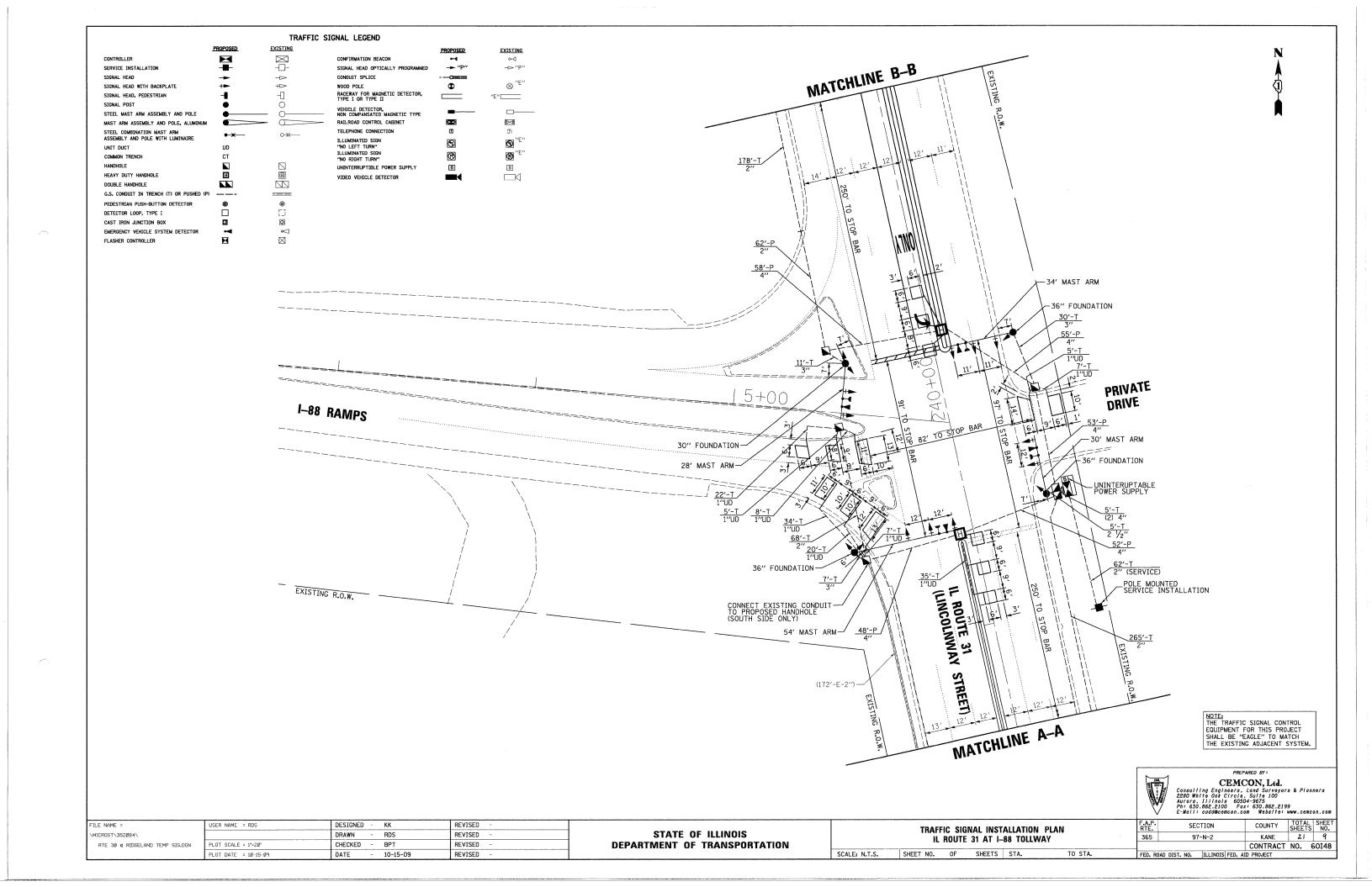
- (11) PROPOSED PCC BASE COURSE, 11'
- PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B 4" (TO BE INCLUDED IN THE COST OF PCC BASE COURSE & CONCRETE MEDIAN SURFACE ITEM)
- PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B 6.12
- PROPOSED NO. 6 EPOXY COATED TIE BAR, DEFORMED, (DRILL AND GROUT),
 AT 24" SPACING, (INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER)
- PROPOSED NO. 8 EPOXY COATED TIE BAR, DEFORMED, (DRILL AND GROUT), AT 24" SPACING, (INCLUDED IN THE COST OF PCC BASE COURSE ITEM)
- PROPOSED SAW CUT (INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4")
- (18) PROPOSED STRIP REFLECTIVE CRACK CONTROL TREATMENT
- (19) PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4"

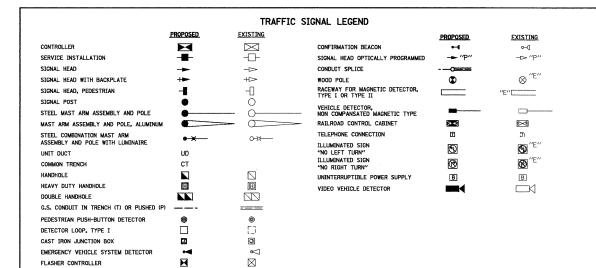
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	PLOT DATE = 10/16/2009	DATE -	REVISED -		SCALE: NTS	SHEET NO. O	OF S	SHEETS	STA. X	TO STA. X	FED. ROAD D	IST. NO. 1 ILLINOIS	FED. AID PROJECT	

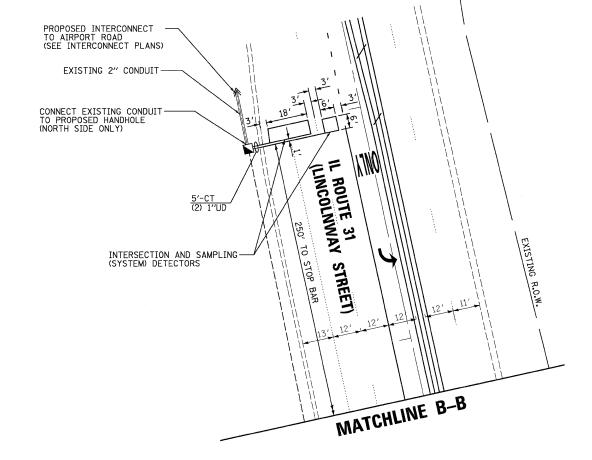


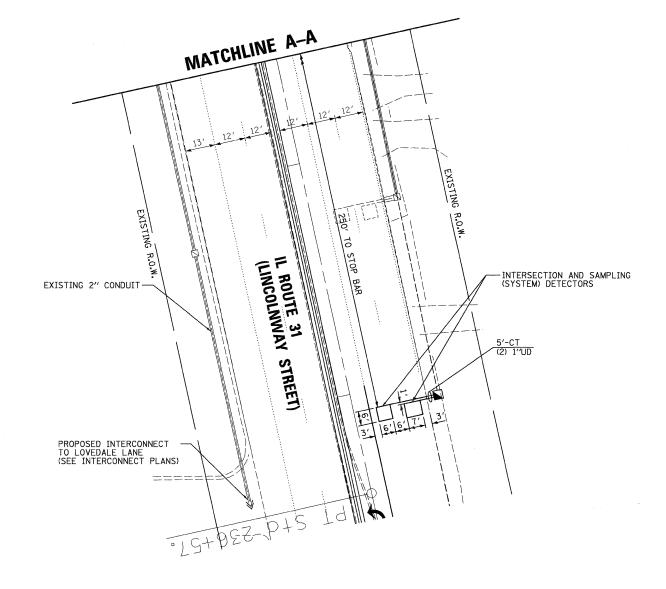












NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

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PREPARED BY:

CEMCON, Ltd.

Consulting Engineers. Land Surveyors & Planners
2280 White Oak Circle. Suite 100
Aurora. Illinois 60504-9675
Ph: 630.682.2100 Fax: 630.682.2199
E-Mall: cadd@cemcon.com Website: www.comcon.com

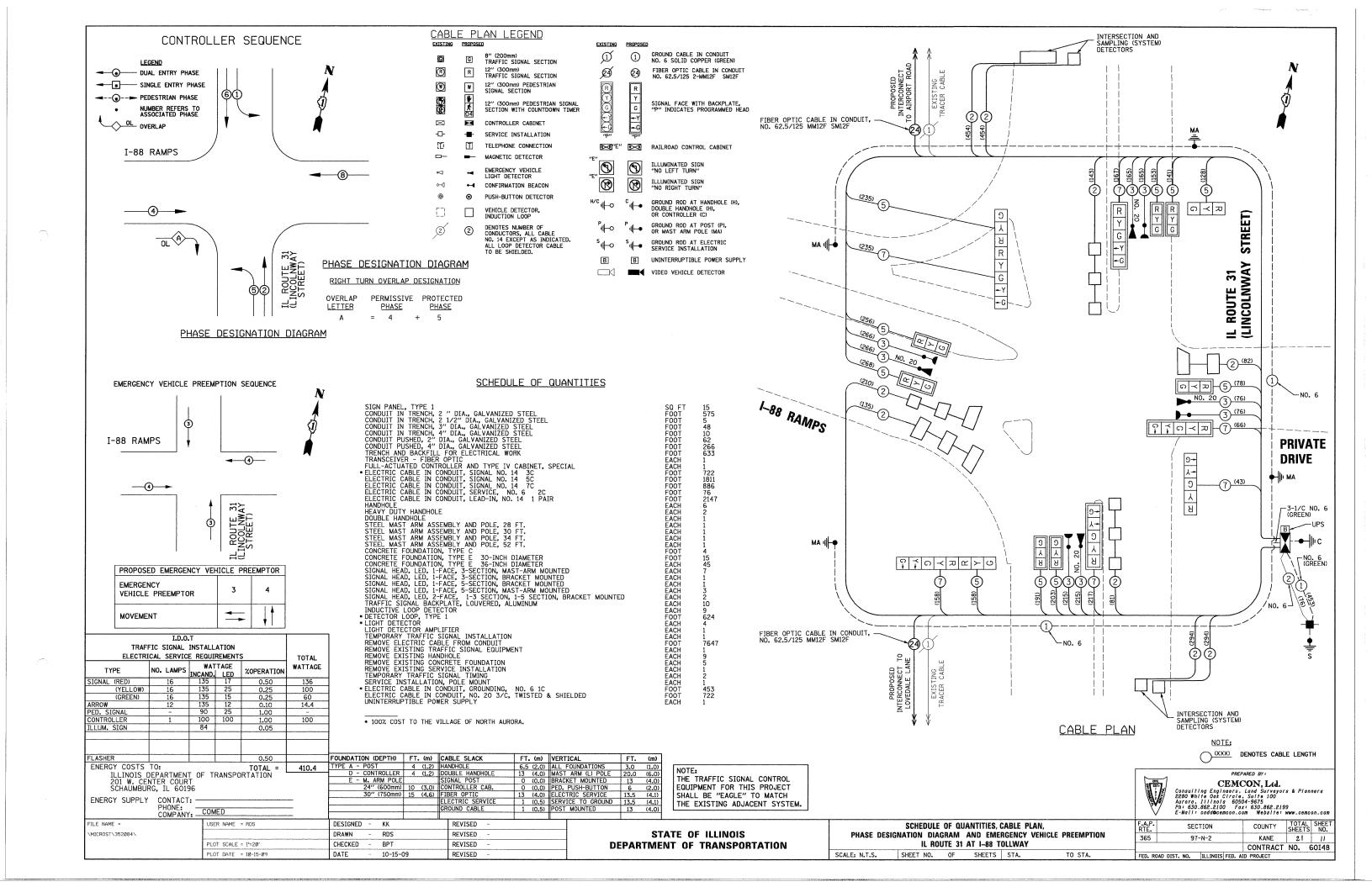
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\MICROST\352Ø84\		DRAWN	-	RDS .	REVISED	-
RTE 30 @ RIDGELAND TEMP SIG.DGN	PLOT SCALE = 1°=20'	CHECKED	-	BPT	REVISED	
	PLOT DATE = 10-15-09	DATE	-	10-15-09	REVISED	A00

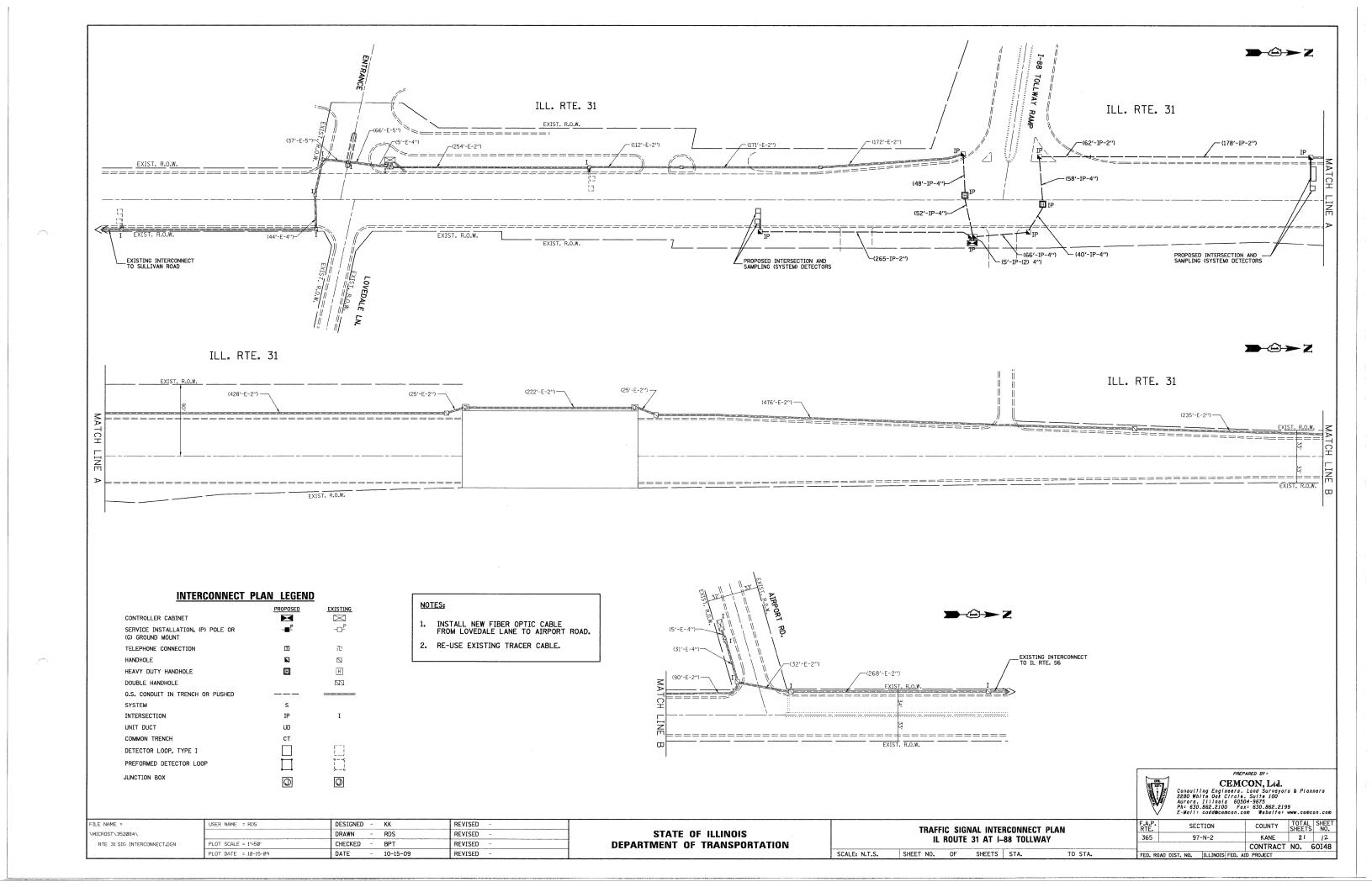
STATE	: OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

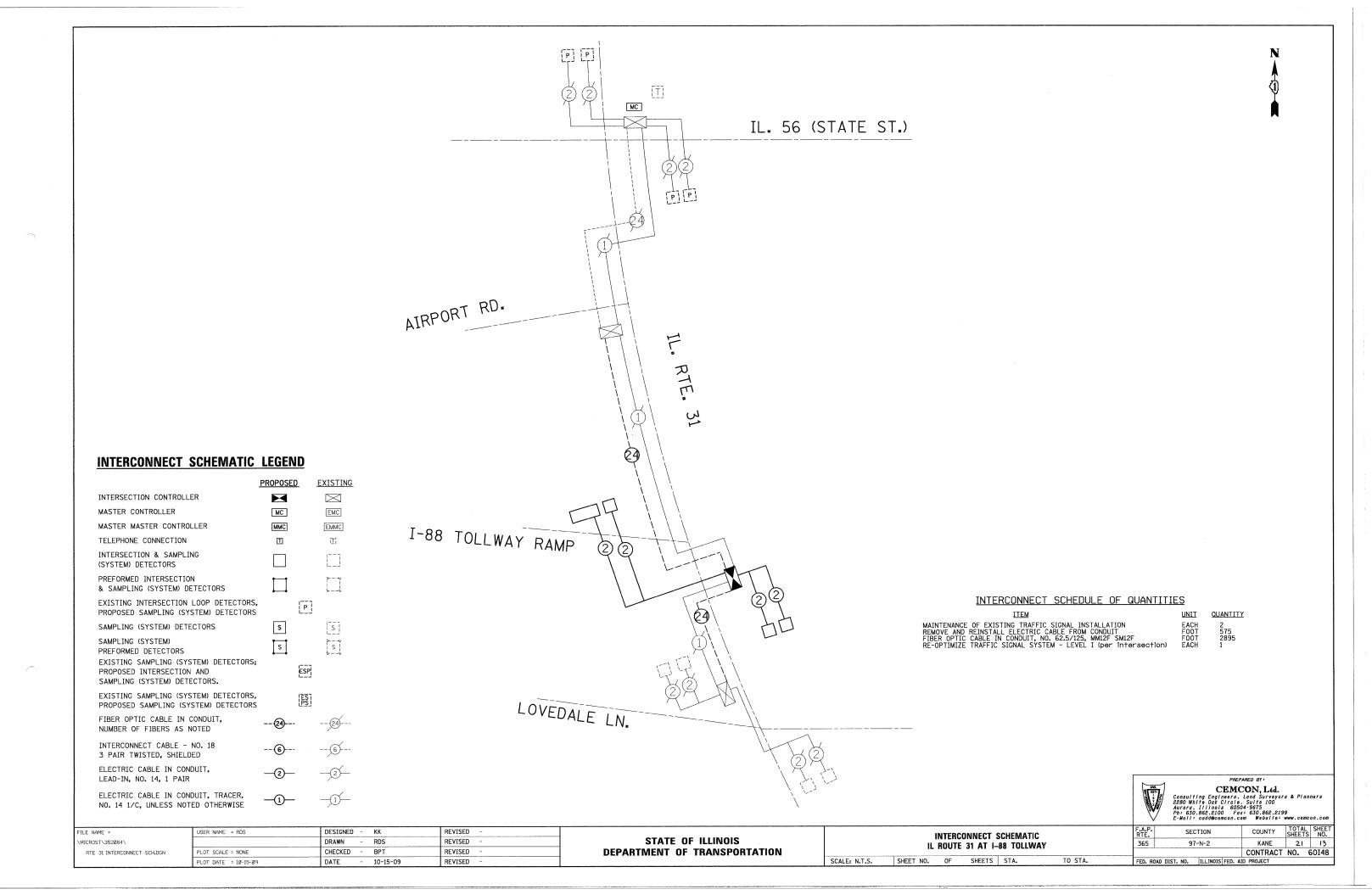
1	TRAFI	IC SIGI	VAL INS	TALLATION	PLAN
	IL	ROUTE	31 AT I	-88 TOLLW	AY
SHEET	NO.	OF	SHEETS	STA.	TO STA.

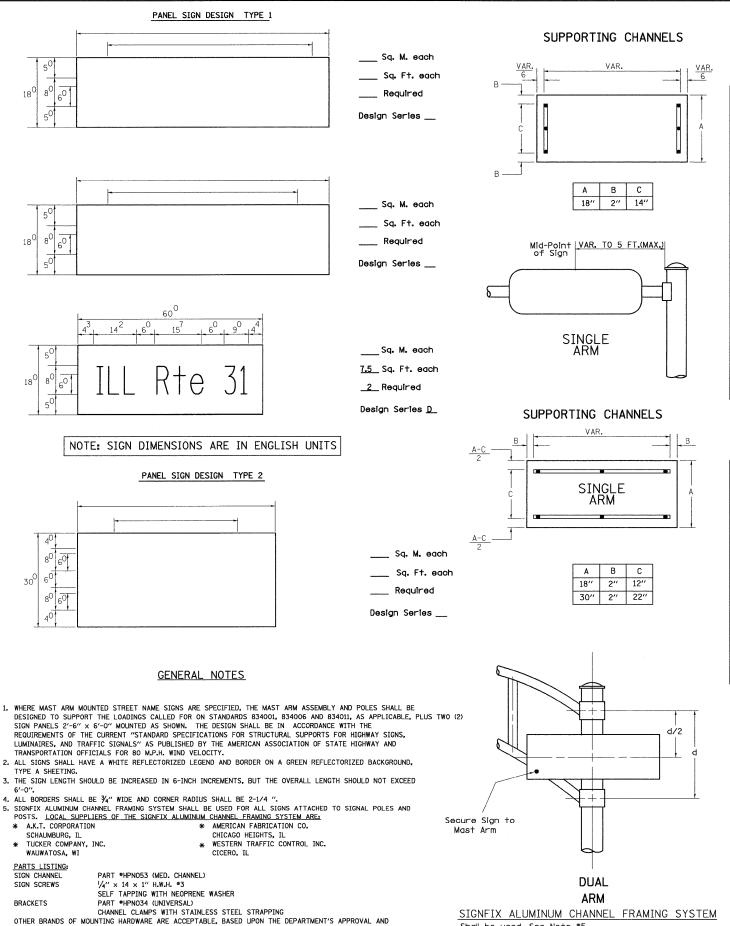
SCALE: N.T.S.

	,						,	,				
RTE.		SECT	ION			COUNTY	SHEETS	SHEET NO.				
365		97-	N-2		T	KANE	21	10				
	CONTRACT NO. 60148											
ED. RO	DAD DIST.	NO.	ED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT									









Upper Case To Lower Case Spacing Chart 8-6 Inch Series "C & D" EXAMPLE, 2^{3} DENOTES $\frac{3''}{8}$

UPPER AND LOWER CASE LETTER WIDTHS

		SECOND LETTER														
		d e p q	bh		f	w	J		s	+	٧	У	>	<	2	Z
SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
AWX	12	14	14	15	1 ²	14	06	10	1 ¹	14	06	10	1 ¹	12	12	14
В	14	15	20	21	14	1 ⁵	11	1 ²	14	15	12	14	1 ²	14	1 ⁶	17
CEG	14	1 ⁵	20	21	1 ²	14	06	10	1 ²	14	1 ²	14	14	15	14	15
DOQR	14	15	20	2 ¹	14	1 ⁵	06	10	1 ²	14	1 ²	14	14	15	14	15
F	05	06	14	15	06	10	05	06	06	1 ⁰	06	10	06	10	1 ¹	12
HIMN	20	2 ¹	2 ²	24	20	2 ¹	14	1 ⁵	1 ⁶	17	16	17	20	2 ¹	20	21
JU	20	2 ¹	20	2 ¹	1 ⁶	17	14	1 ⁵	16	17	16	17	16	17	20	21
K L	11	12	16	17	11	12	05	06	11	12	11	12	11	12	12	14
Р	12	14	14	15	12	14	05	06	1 ¹	12	11	12	12	14	12	14
S	1 ²	14	16	17	1 ²	14	06	10	1 ²	14	1 ²	14	1 ²	14	12	14
Т	1 ¹	12	16	17	06	10	06	10	1 ¹	12	11	1 ²	1 ¹	12	1 ²	14
٧	06	10	14	15	11	12	06	10	1 ²	14	12	14	12	14	12	14
Υ	05	06	14	1 ⁵	06	10	05	06	05	07	05	06	06	10	11	12
Z	16	17	22	24	16	17	12	14	16	17	16	17	16	17	20	21

ower	Case	То	Lower	Case				
Spacin	g Cha	rt (5 Inch	Series	"C	&	D"	

							SE	CON	۷D	LET	TEF	₹					
			d e	m n t		f	w		i	s	†	٧	У	>	<	2	Z
	SERIES	С	D	С	D	С	D	С	D	С	D	С	D	С	D	С	D
F	adhgij Imnqu	16	17	2 ²	24	16	17	12	14	14	1 ⁵	14	1 ⁵	16	17	16	17
Ŕ	bfkops	12	14	16	17	11	12	05	06	11	12	11	12	12	14	12	14
T	се	12	14	16	17	12	14	06	10	12	14	12	14	12	14	12	14
E T	r	06	10	12	14	06	10	03	03	05	06	05	0e	0e	10	06	10
Ţ	† z	12	14	16	17	12	14	06	10	11	12	11	12	12	14	12	14
ĖR	νу	11	12	14	15	11	12	05	06	06	10	06	10	11	12	11	12
	w	11	12	14	15	11	12	05	06	11	12	11	12	11	12	12	14
	×	12	14	16	17	11	12	05	06	11	12	11	12	11	12	12	14

Number To Number Spacing Chart 8 Inch Series "C & D"

F 0 9 16 17 16 17 14 15 12 14 14 15 14 15 16 17 12 14 16 15																							
				()		1	2	2	3	3	4	1	į	5	6	6	-	7	8	3	9	9
	SE	RIE	ES	С	D	С	D	С	D	С	D	С	D	С	D	C	D	C	D	С	D	С	D
F	0	9		1 ⁶	17	16	17	14	1 ⁵	1 ²	14	14	1 ⁵	14	15	16	17	1 ²	14	16	17	16	17
R	1			2 ⁰	2 ¹	2 ⁰	2 ¹	2 ⁰	2 ¹	1 ⁶	17	14	1 ⁵	2 ⁰	2 ¹	2 ⁰	2 ¹	14	1 ⁵	20	2 ¹	20	2 ¹
T	2	3	4	14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ²	14	1 ²	14	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	16	17	14	15
N	5			14	1 ⁵	14	1 ⁵	14	1 ⁵	1 ¹	1 ²	11	1 ²	14	15	14	1 ⁵	11	1 ²	14	1 ⁵	14	1 ⁵
MB	6			16	17	14	15	14	1 ⁵	12	15	12	14	14	1 ⁵	14	1 ⁵	11	1 ²	14	1 ⁵	14	1 ⁵
E	7			12	14	1 ²	14	14	1 ⁵	1 ²	15	05	06	1 ²	14	14	1 ⁵	1 ¹	1 ²	14	1 ⁵	12	14
	8			16	17	1 ⁶	17	14	1 ⁵	12	15	12	14	14	15	1 ⁶	17	12	14	16	17	14	1 ⁵

L T E R S	1	UPPER ETTERS		H UPPER LETTERS	E T T E R S	6 INCH CASE L	LOWER
T E	SEF	RIES	SE	RIES	T E	SEI	RIES
R S	С	D	С	D	R	С	D
Α	36	50	50	6 ⁵	a	35	42
В	32	40	43	53	b	35	42
С	32	40	43	53	С	35	41
D	32	40	43	53	d	35	42
E	30	35	40	47	е	35	42
F	30	35	40	47	f	23	26
G	3 ²	40	43	53	g	35	42
Н	3 ²	40	43	53	h	35	42
I	07	07	11	12	1	11	1 1
J	30	36	40	50	J	20	22
K	3 ²	4 ¹	43	5 4	k	3 ⁵	42
L	30	35	40	47	ı	1 ¹	11
М	3 7	45	5 ¹	6 ¹	m	6 ⁰	70
N	32	40	43	53	n	35	42
0	34	42	45	55	0	36	43
Р	3 ²	40	43	5 ³	P	3 ⁵	42
Q	34	4 ²	45	55	q	35	42
R	3 ²	40	43	5 ³	r	26	32
S	32	40	43	53	5	36	42
Т	30	35	40	47	†	27	32
U	32	40	43	53	u	35	42
٧	3 ⁵	4 4	47	6 ⁰	٧	4 ²	47
W	44	52	60	70	w	5 ⁵	64
х	34	40	45	53	×	44	5 ¹
Υ	36	50	5 ⁰	6 ⁶	У	46	53
Z	3 ²	40	43	53	z	3.6	43

N _{U,4}	6 INCH	SERIES	8 INCH	SERIES
N _U MBER	С	D	С	D
1	12	14	15	20
2	3 ²	40	43	5 ³
3	3 ²	40	43	53
4	3 ⁵	43	47	57
5	32	40	43	53
6	3 ²	40	43	5 ³
7	3 ²	40	43	53
8	3 ²	40	43	53
9	3 ²	40	43	53
0	34	42	45	55

PREPARED BY: CEMCON, Led.

Consuiting Engineers. Land Surveyors & Planners 2260 White Oak Circle, Suite 100 Aurora, Ililnois 60504-9675 Ph: 630.862.2100 Fox: 630.862.2199 E-Mail: add@acmoon.oom Website: www.cemcon.com

FILE NAME =	USER NAME = RDS	DESIGNED	-	KK	REVISED -
\MICROST\352Ø84\		DRAWN	-	RDS	REVISED -
RTE 31 STREET SIGN.DGN	PLOT SCALE = 1"=20"	CHECKED	-	BPT	REVISED
	PLOT DATE = 10-15-09	DATE	-	10-15-09	REVISED -

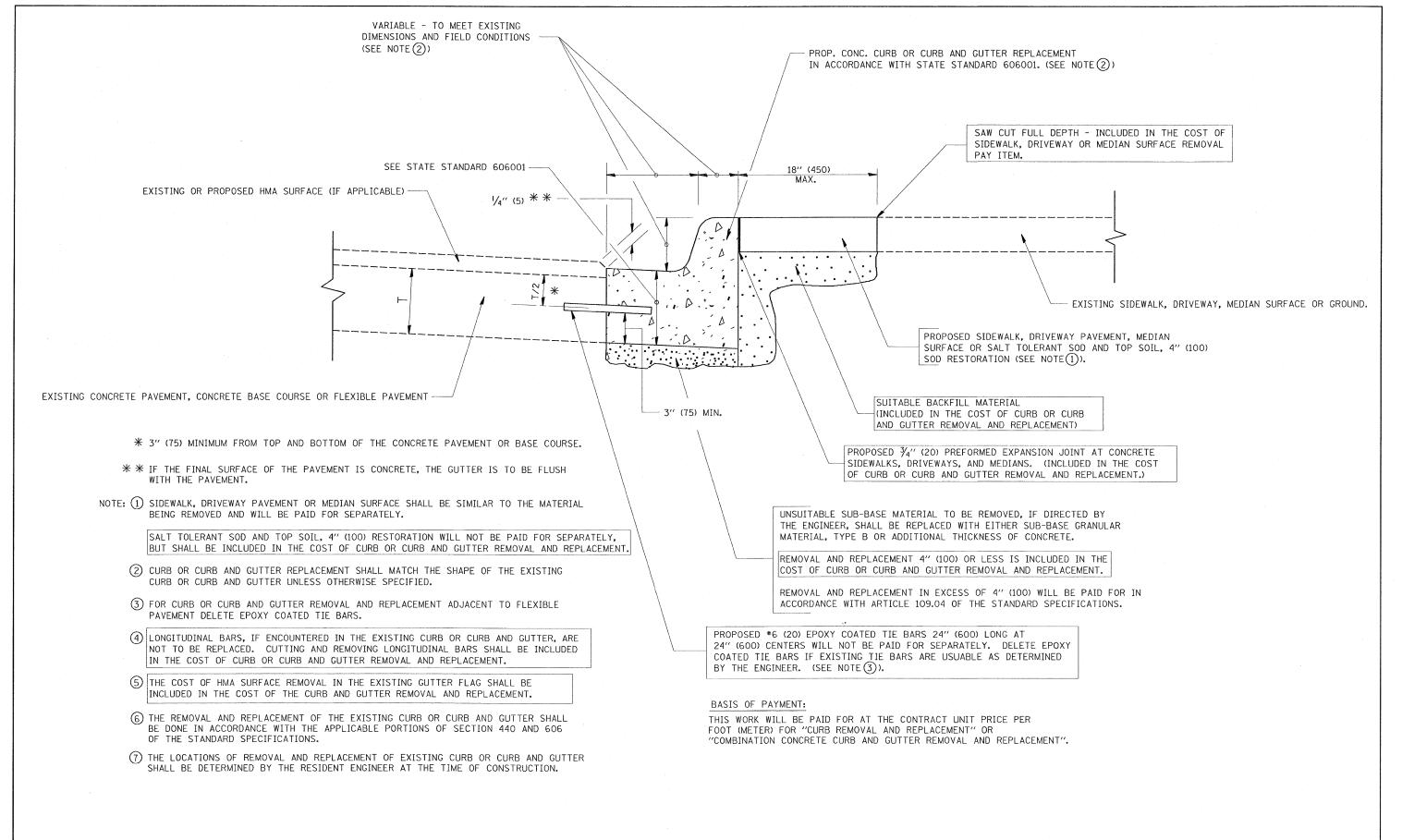
COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

Shall be used. See Note #5.

			MOUNTED JTE 31 AT		NAME SIGN LWAY
SCALE: N.T.S.	SHEET NO	o. 0	f sheet	S STA.	TO STA.

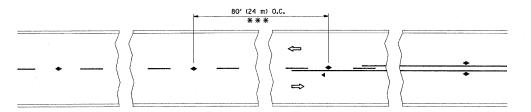
	_							
.P. E.		SE	CTION			COUNTY	TOTAL SHEETS	SHEE NO.
5		9	7-N-2		T	KANE	21	14
	A				(CONTRACT	NO.	6014
. R	DAD DIST	. NO.	ILLINOIS	FED.	AID	PROJECT		



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

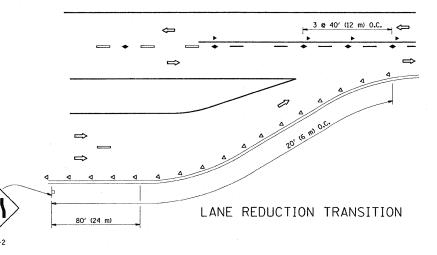
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

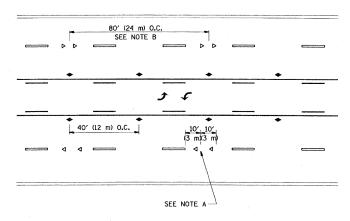
FILE NAME	3	USER NAME = abrevah	DESIGNED - A. HOUSEH	REVISED -	R. SHAH 10-03-96			CURB OR CURB AND GUTTER		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:/pw_work)		Std.dgn	DRAWN -	REVISED -	A. ABBAS 03-21-97	STATE OF ILLINOIS		REMOVAL AND REPLACEMENT		365	97-N-2	KANE	21	15
	·	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		KEWIOVAL AND KEPLACEIVIENI		BD	600-06 (BD-24)	CONTRACT	NO. E	50148
		PLOT DATE = 10/14/2009	DATE - 03-11-94	REVISED -	R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED	. AID PROJECT		



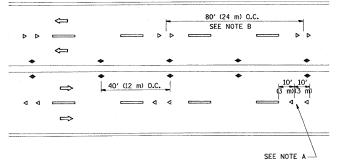
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

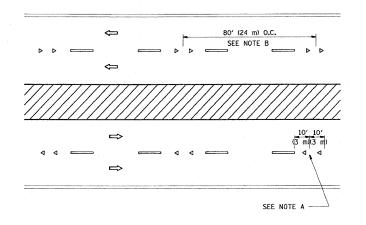




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

LANE MARKER NOTES

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

SYMBOLS

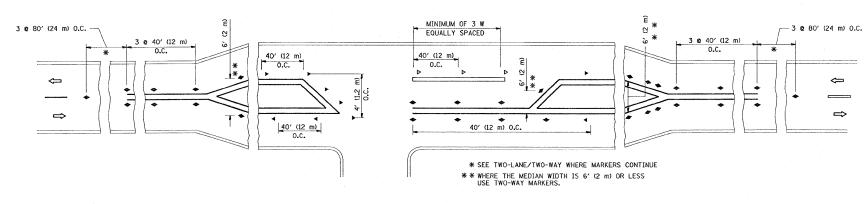
---- YELLOW STRIPE

₩HITE STRIPE

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

DESIGN NOTES

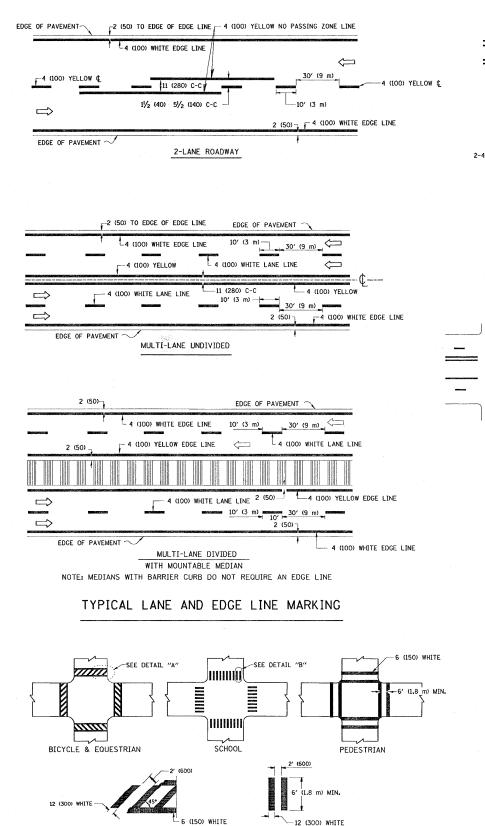
- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD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



LEFT TURN

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

TOTAL SHEET SHEETS NO. DESIGNED REVISED -T. RAMMACHER 09-19-94 COUNTY TYPICAL APPLICATIONS DRAWN REVISED -T. RAMMACHER 03-12-99 STATE OF ILLINOIS :\pw_work\PWIDOT\ABREUAH\dØ158873\Dist 97-N-2 KANE RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) CHECKED REVISED -T. RAMMACHER 01-06-00 **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60148 PLOT SCALE = 50.0000 '/ IN. TC-11 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. DATE REVISED - C. JUCIUS 09-09-09



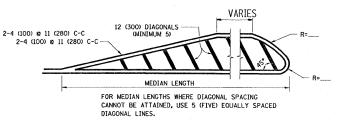
2-4 (100) YELLOW @ 11 (280) C-C

NO DIAGONALS

4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES

2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

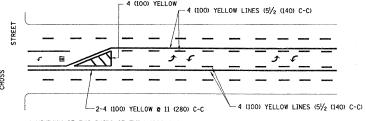


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))

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

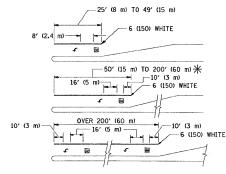


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

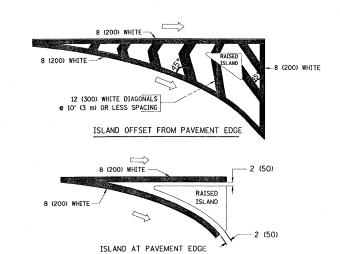


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SO. FT. (1.5 m²) NWY AREA = 20.8 SQ. FT. (1.9 m²)

* 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 UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE 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' (600) APART 2' (600) 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 8 45°	SOLID	YELLOW: TWO WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	
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 (0VER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 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) TO 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 inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = abrevah	DESIGNED	***	EVERS	REVISED	-Т.	RAMMACHER	10-27-94
c:\pw_work\PWIDOT\ABREUAH\dØ158873\Dist	td.dgn	DRAWN	-		REVISED	-C.	JUCIUS	09-09-09
•	PLOT SCALE = 50.0000 '/ IN.	CHECKED	-		REVISED	-		
	PLOT DATE = 10/14/2009	DATE	-	03-19-90	REVISED	-		

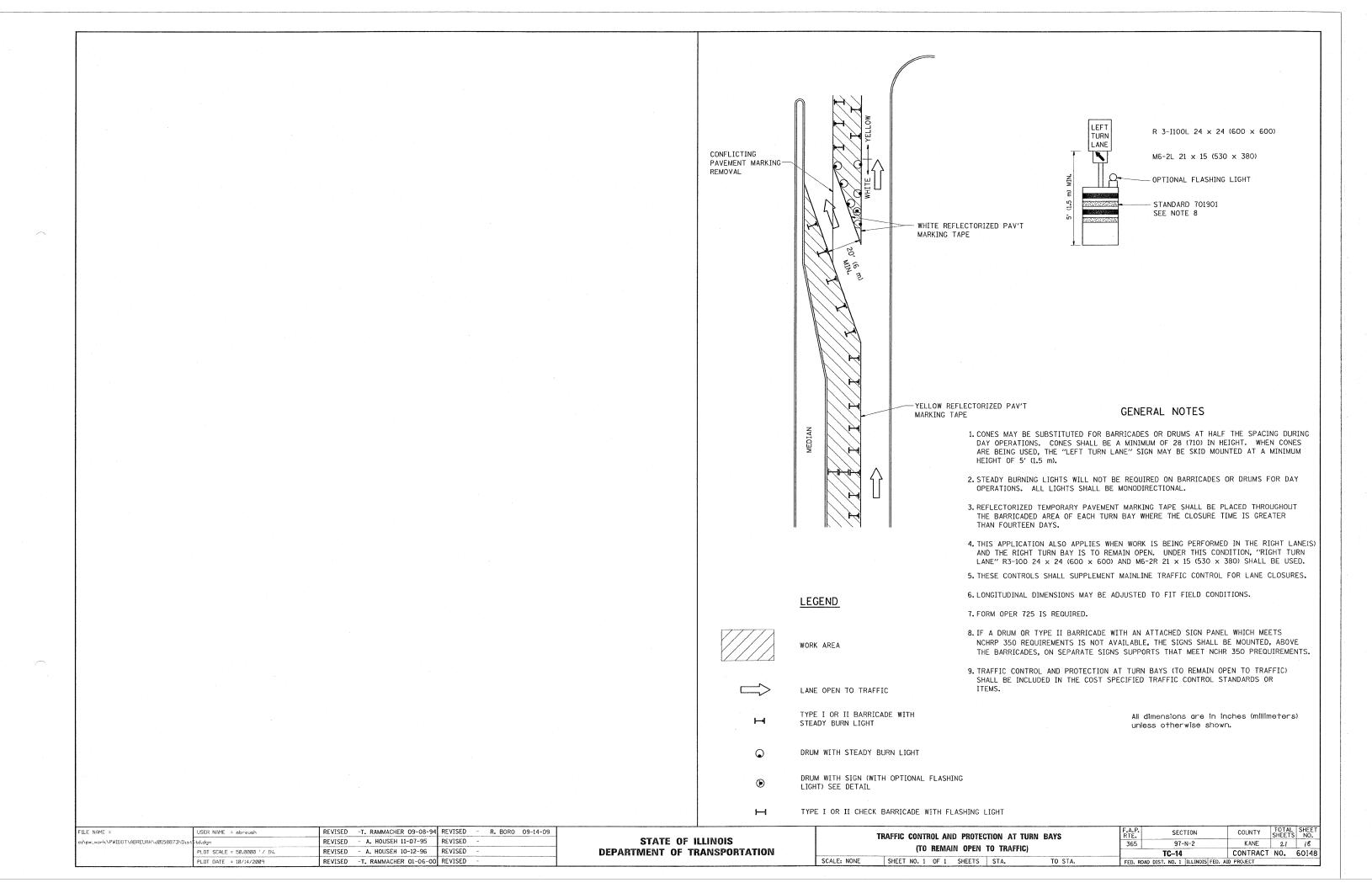
TYPICAL CROSSWALK MARKING

DETAIL "B"

DETAIL "A"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DI	STRICT ON	E		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS					365	97-N-2	KANE	21	17
	I I FIGAL FA	AVERSEIST I	WARRINGS			TC-13	CONTRACT	NO.	60148
.E: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	OAD DIST. NO. 1 ILLINOIS FE	D. AID PROJECT		



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) LINIT DUCT-TRENCHED TO E/P ** (3.0 m)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

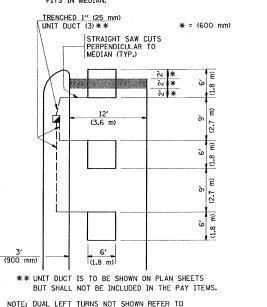
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

* = (600 mm)

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

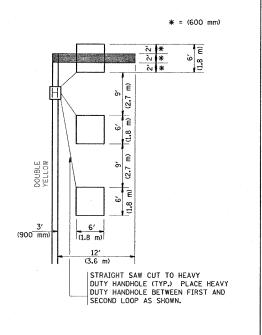
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

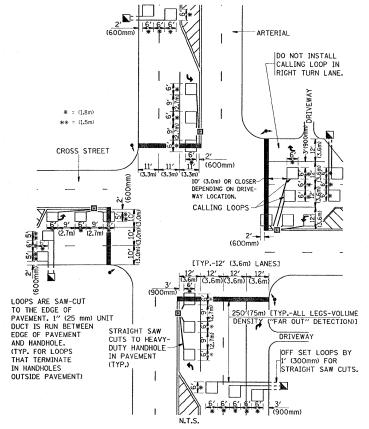
(PROTECTED / PERMITTED LEFT TURN PHASING)

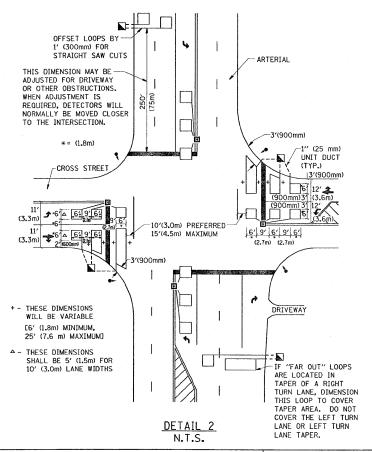


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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)





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 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 <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 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.

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	PLOT DATE = 10/14/2009	DATE	REVISED -

DETAIL

N.T.S.

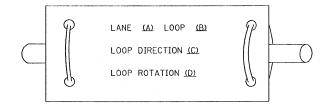
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT 1 - DETECTOR LOOP INSTALLATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESURFACING			97-N-2	KANE	21	19
			TS07	CONTRACT	NO.	60148
SHEET NO. 1 OF 1 SHEETS STA. T	O STA.	FED. RO	DAD DIST. NO. 1 THE INDIS FED. AT	D PROJECT		

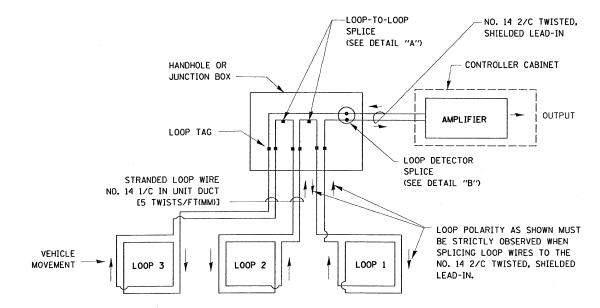
LOOP DETECTOR NOTES

- 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

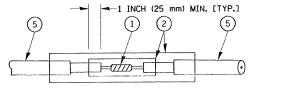


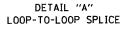
- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

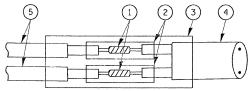


DETECTOR LOOP WIRING SCHEMATIC

- 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.







DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TOTAL SHEET SHEETS NO. 21 19A

CONTRACT NO. 60148

COUNTY KANE

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.

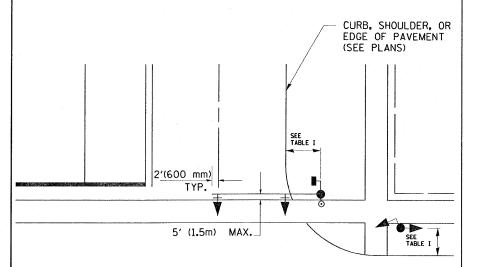
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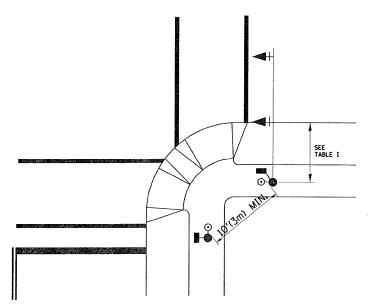
	DISTRICT ONE		F.A.P. RTE.	SECTION	COUNTY
	STANDARD TRAFFIC SIGNAL DESIGN DE	TAILS	365	97-N-2	KANE
	STANDARD HIATTO SIGNAL DESIGN DE	IAILO		TS-05	CONTRA
SCALE: NONE	SHEET NO. 1 OF 4 SHEETS STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



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.

NOTES:

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

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 PUSHBUTTONS.

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)
- 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)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

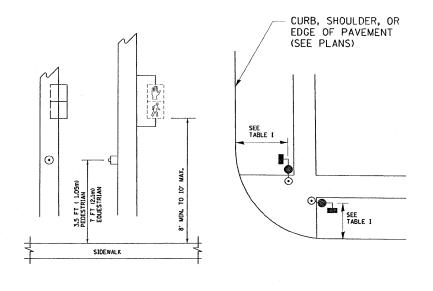


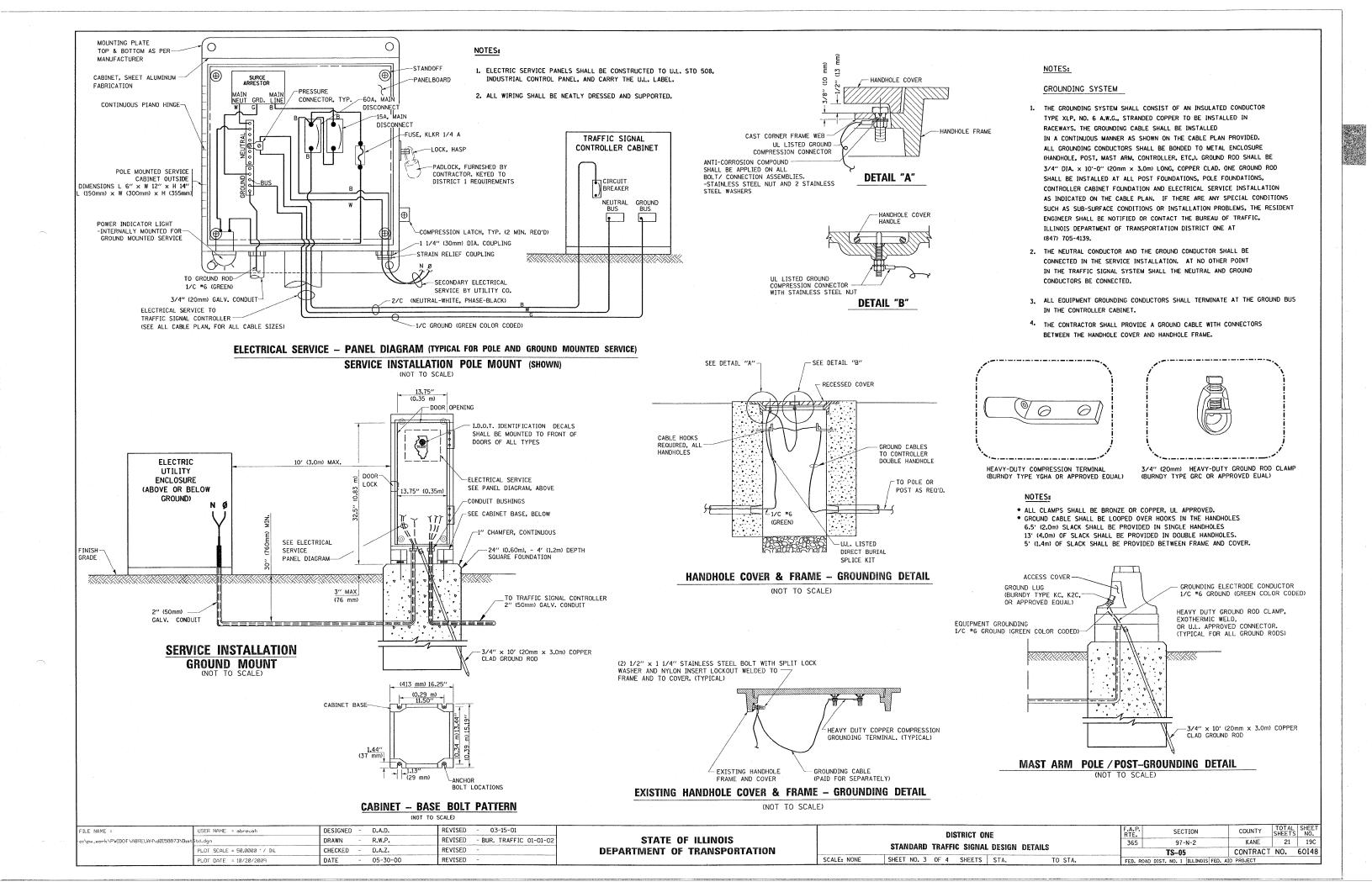
TABLE I

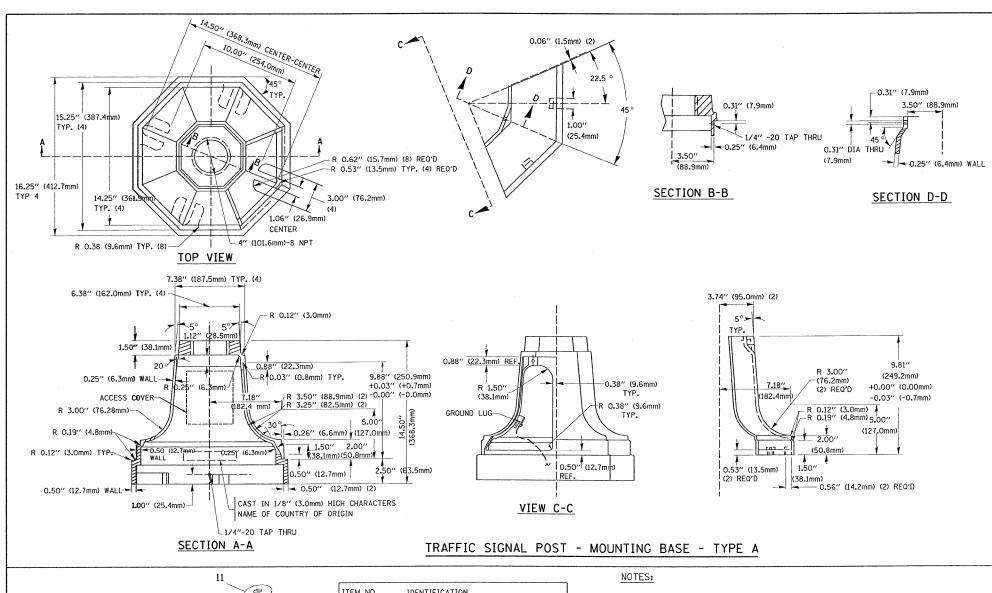
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m),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

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

		DIS	TRICT OF	IE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STANDARD	TRAFFI	SIGNAL	DESIGN	DETAILS		365	97-N-2	KANE	21	19B
				DEVIOLE				TS-05	CONTRACT	NO.	60148
٧E	SHEET NO. 2	OF 4	SHEETS	STA.	TC	STA.	 FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M) LAMP HOLDER AND COVER OUTLET BOX COVER RUBBER COVER GASKET REDUCING BUSHING \(\frac{4}{4}\)'(19 mm) CLOSE NIPPLE \(\frac{4}{4}\)''(19 mm) CLOSE NIPPLE \(\frac{4}{4}\)''(19 mm) HOLE PLUG \(\frac{5}{4}\)''(19 mm) HOLE PLUG \(\frac{5}{4}\)DLE BRACKET - GALV. \(\frac{7}{4}\)PAR 38 LAMP DETECTOR UNIT POST CAP [18 FT. (5.4 m) POST MIN.] 8-3-93

MAST ARM MOUNT

DESIGNED -

DRAWN

CHECKED

D.A.D.

R.W.P.

D.A.7.

05-30-00

REVISED - BUR.TRAFFIC 03-15-01

BUR.TRAFFIC 11-12-01

BUR.TRAFFIC 01-01-02

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EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

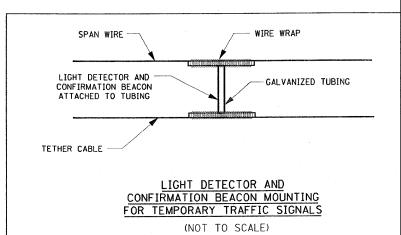
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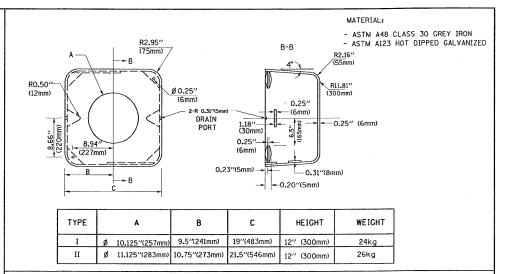
POST CAP MOUNT

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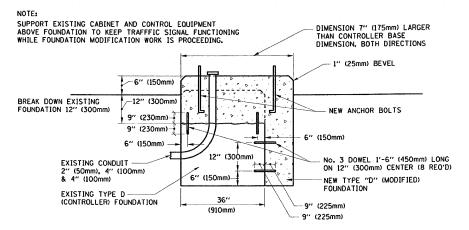
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR
- 2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION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



SCALE: NONE

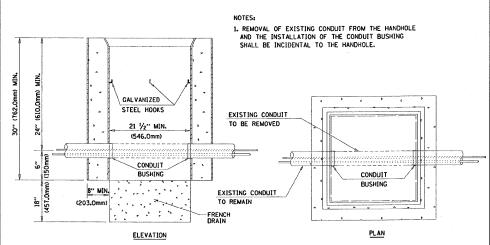


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



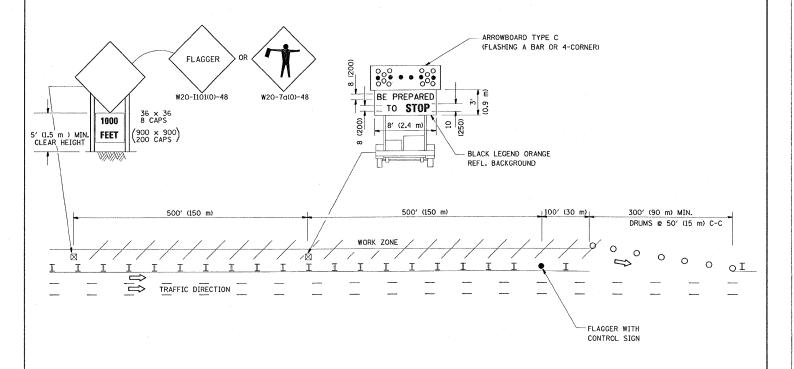
HANDHOLE TO INTERCEPT EXISTING CONDUIT

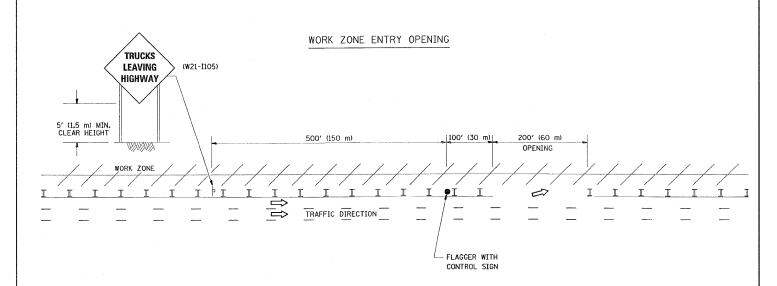
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DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		97-N-2	KANE	21	19D
		TS-05	CONTRACT	NO.	60148
SHEET NO. 4 OF 4 SHEETS STA. TO STA.	FED R	DAD DIST. NO. 1 THE INDIS FED. AT	D PROJECT		

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



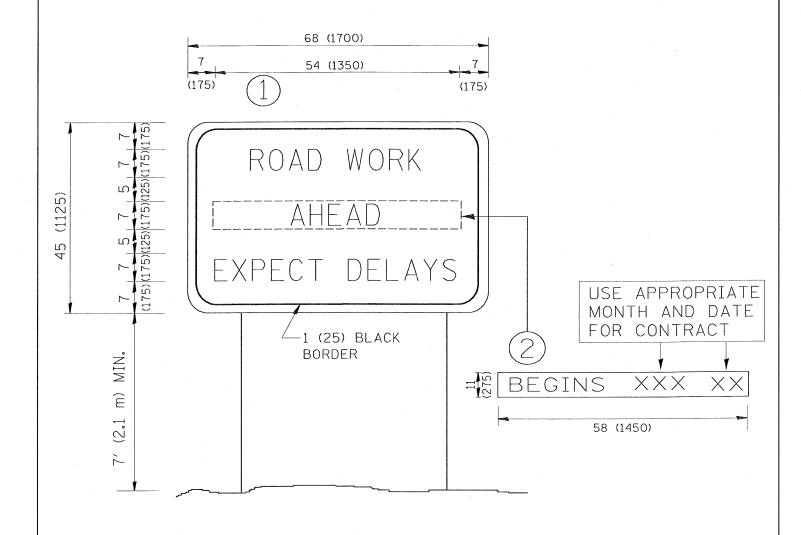


NOTES:

- 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 be prohibited.
- 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

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 t:\pw_work\PWIDOT\ABREUAH\dØ158873\Dist	td.dgn	DRAWN -	REVISED - J.A.F. 04-03	STATE OF ILLINOIS	AT WORK ZONE OPENINGS	365	97-N-2	KANE 21	20
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED - J.A.F. 02-06	DEPARTMENT OF TRANSPORTATION			TC-18	CONTRACT NO. 6	60148
•	PLOT DATE = 10/14/2009	DATE -	REVISED - S.P.B. 01-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD (DIST. NO. 1 ILLINOIS FEE	ED. AID PROJECT	



NOTES:

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

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

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	PLOT DATE = 10/14/2009	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILL	INOIS FED. AID PROJECT