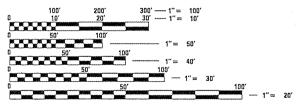
04-27-12 LETTING ITEM 003 INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	STANDARDS LIST
3	SUMMARY OF QUANTITIES
4 - 9	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (6-SHEETS)
10 – 11	TRAFFIC SIGNAL MODIFICATION PLAN US ROUTE 14 AT KISHWAUKEE VALLEY ROAD
12	MODIFIED CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES US ROUTE 14 AT KISHWAUKEE VALLEY ROAD
13	TRAFFIC SIGNAL MODIFICATION PLAN US ROUTE 14 AT DEAN STREET
14	MODIFIED CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES US ROUTE 14 AT DEAN STREET
15 – 16	TRAFFIC SIGNAL MODIFICATION PLAN US ROUTE 14 AT ILL ROUTE 47
17	MODIFIED CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES US ROUTE 14 AT ILL ROUTE 47
18	TRAFFIC SIGNAL MODIFICATION PLAN US ROUTE 14 AT LAKE AVENUE
19	MODIFIED CABLE PLAN, EXISTING PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES US ROUTE 14 AT LAKE AVENUE
20	ARTERIAL ROAD INFORMATION SIGN

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2



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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

DISTRICT 1 NO. (847) 705–4000
PROJECT ENGINEER: I. PLASCENCIA
UNIT CHIEF: D. DREW
TOWNSHIP(S): SENECA, DORR
CONTRACT NO. 60P15

STATE OF ILLINOIS

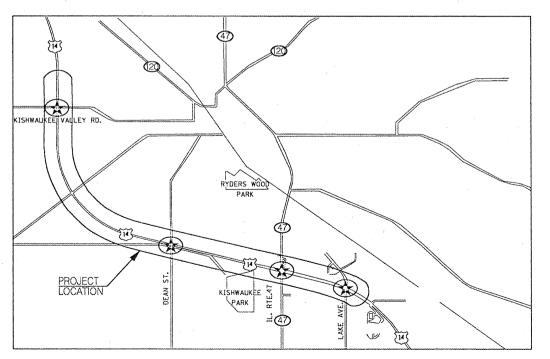
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1
HIGHWAY SAFETY IMPROVEMENT PROJECT
Traffic Signal Modernization Plans For
F.A.P. ROUTE 305 – US ROUTE 14
from Kishwaukee Valley Road to Lake Avenue
Section: 2011–020–TS
McHenry County
C-91–470–11
City of Woodstock

PROJECT: HSIP- 0305 (046)



PROJECT LOCATION

GROSS LENGTH = 19,305 FEET = 3.656 MILES NET LENGTH = 3,298 FEET = 0.625 MILES

COUNTY TOTAL SHEET NO.

McHENRY 20 01

CONTRACT NO. 60P15 2011-020-TS FED. ROAD DIST. NO. P-91-423-11 D-91-470-11 *20 41=21 LOCATION OF SECTION INDICATED THUS: -P.K. GANDHI, P.E. NO. 062-034993 ENGINEER EXPIRES: 11/30/2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

DEPUTY DIRECTOR OF HIGHWAYS REGION ENGINEER

MARCH 28 20 12

SUMM D. BORONZELLI PER

ACTURE ENGINEER OF DESIGN AND ENVIRONMENT

William R. Frey B.

Octor Director Of Highways, Chief Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Rev.

OF TRAFFIC - DARYLE DREW - (847) 705-4420

IDOT STANDARDS

STD. No.	DESCRIPTION			
701006–03	OFF-RD OPERATIONS, 2L, 2W, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE			
701011–02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY			
701101–02	OFF-RD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24" FROM PAVEMENT EDGE			
701301–04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS			
701501–06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED				
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION			
720001–01	SIGN PANEL MOUNTING DETAILS			
814001–02	HANDHOLES			
85700101	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES			
862001–01	UNINTERRUBTIBLE POWER SUPPLY (UPS)			
873001–02	TRAFFIC SIGNAL GROUNDING AND BONDING			
878001- <i>0</i> 9	CONCRETE FOUNDATION DETAILS			
88000601	TRAFFIC SIGNAL MOUNTING DETAILS			
886001–01	DETECTOR LOOP INSTALLATION			

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	PKG	REVISED ~
\$FILEL\$		DRAWN	-	EA, MG	REVISED ~
	PLOT SCALE ≈ \$SCALE\$	CHECKED	-	PKG	REVISED -
	PLOT DATE = \$DATE\$	DATE	-	06/01/2011	REVISED -

STATE	: OI	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

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ET NO	O۳	CHEETE	CYA	TO CTA		 	7

			SUMMAI	RY OF QUANTITIES				
			URBAN	90% FEDE	RAL	CONSTRUCTION CO	DE TYPE: 0021	
				5% STATE 5% McHENRY COUNTY	5% STATE 5% WOODSTOCK	10% STATE	5% STATE 5% WOODSTOC	
CODE NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	US RTE. 14 @ KISHWAUKEE VALLEY ROAD	US RTE. 14 @ DEAN STREET	US RTE. 14 @ ILL RTE. 47	US RTE. 14 @ LAKE AVENUE	
				LS3EL, SEQ. D1	SE a 02	SEQ 03	SE	
44000600	SIDEWALK REMOVAL	SQ FT	12	12		-	~	
67000400	ENGINEER'S FIELD OFFICE , TYPE A	CAL MO	6	1.5	1.5	1.5	1.5	
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5	0.5	-	-	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.25	0.25	0.25	0.25	
72000100	SIGN PANEL - TYPE 1	SQ FT	90	-	-	40	50	
72400310	REMOVE SIGN PANEL - TYPE 1	SO FT	85	-	-	40	45	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	816	406	410	-	_	
81400200	HEAVY-DUTY HANDHOLE	EACH	4	2	2	-	-	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	1	1	1	1	
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH - 1	1	1	-	-	- -	
87300010	GROUNDING EXISTING HANDHOLE FRAME AND COVER	EACH	9	-	9	-	-	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	386	386	-	-	-	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3393	1253	2140	-	_	
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	659	-	659	-		
87900200	DRILL EXISTING HANDHOLE	EACH	4	2	2	-	-	
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	29	4	4	12	9	

100% COST TO CITY OF WOODSTOCK

• Specialty Items

F.A.P. SECTION COUNTY SHEETS NO.

305 2011-020-TS MCHENRY 20 3

CONTRACT NO. 60P15

FED. ROAD DIST. NO. 1 | ILLINOIS| FED. AID PROJECT STATE OF ILLINOIS SUMMARY OF QUANTITIES DEPARTMENT OF TRANSPORTATION SCALE: SHEET NO. OF SHEETS STA. TO STA.

FILE NAME = \$FILEL\$

DESIGNED - PKG
DRAWN - EA, MG USER NAME = \$USER\$ REVISED -REVISED -PLOT SCALE : \$SCALE\$ | CHECKED - PKG | DATE - 06/01/2011 REVISED -PLOT DATE = \$DATE\$ REVISED -

			SUMMAF	RY OF QUANTITIES				
			URBAN	90% FEDE		CONSTRUCTION CODE TYPE: 0021		
				5% STATE 5% MCHENRY COUNTY	5% STATE 5% WOODSTOCK	10% STATE	5% STATE 5% WOODSTOCK	
CODE NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	US RTE. 14 @ KISHWAUKEE VALLEY ROAD	US RTE. 14 @ DEAN STREET	US RTE. 14 @ ILL RTE. 47	US RTE. 14 @ LAKE AVENUE	
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	7	4	-	-	3	
88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1	-	-	-	1	
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	9	2	4	2	1	
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	10	2	4	2	2	
88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	-	-	2	1	
88030230	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-4 SECTION, BRACKET MOUNTED	EACH	1	•	-	-	1	
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	2	-	-	-	2	
88500100	INDUCTIVE LOOP DETECTOR	EACH	12	8	4	-	-	
88600100	DETECTOR LOOP, TYPE I	FOOT	122	54	68	-	-	
88700200	LIGHT DETECTOR	EACH	2	2	-	-	-	
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	. 1		-	-	
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	3	-	1	1	1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	4	1	1	1	1	
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	4	1	1	1	1	
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	386	386	-		-	
Z0030850	TEMPORARY INFORMATION SIGNING _	SQ FT	51.4	25.7	-		25.7	
X882 0010	TRAFFIC SIGNAL BACKPLATE, SPECIAL	EACH	40	6	8	14	12	

100% COST TO CITY OF WOODSTOCK

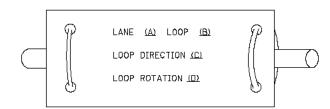
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		DRAWN -	EA, MG	REVISED -	STATE OF ILLINOIS			SUMMAI	RY OF QUA	ANTITIES		305	2011-020-TS	MCHENRY	20 3	JA
	PLOT SCALE = \$SCALE\$	CHECKED ~	PKG	REVISED -	DEPARTMENT OF TRANSPORTATION		 ~~~		~~~~~~	******************************				CONTRACT	T NO. 60P	15
	PLOT DATE = \$DATE\$	DATE ~	06/01/2011	REVISED -	• • • • • • • • • • • • • • • • • • • •	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD I	DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

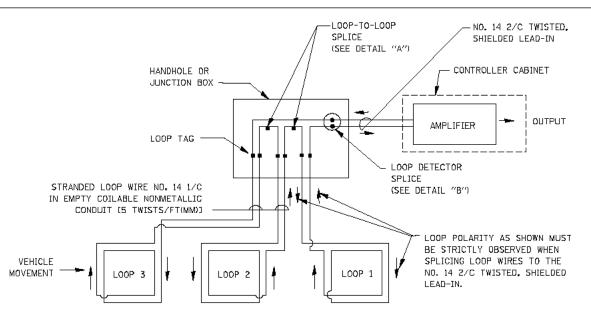
### LOOP DETECTOR NOTES

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

### LOOP LEAD-IN CABLE TAG

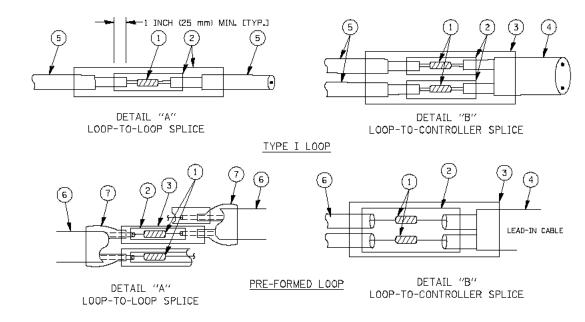


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



### 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

- $\hfill \hfill \hfill$  western union splice soldered with rosin core flux. All exposed surfaces of the solder shall be smooth.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR

	Ú	BREAKOUT	SEALS.	TYCO	CBR-2	OR	APPROVED	EQUA
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	PLOT SCALE = 20.0000 '/ INL	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION
	PLOT DATE = 18/6/2009	DATE - 10/28/09	REVISED -	

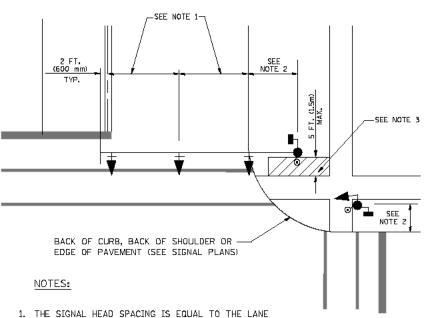
DISTRICT	ONE		F.A.P. RTE.	SEC.	TION		
STANDARD TRAFFIC SIGN.	AL DESIGN	DETAILS	305	2011-0	20-TS		
STANDARD INALLIC SIGNA	VE DESIGN	DETAILS					
SCALE: SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	FEO. RD	AD DIST. NO.	ILLINOIS F	ED. Al	ID

COUNTY S MCHENRY

MCHENRY 20 4 CONTRACT NO. 60P15

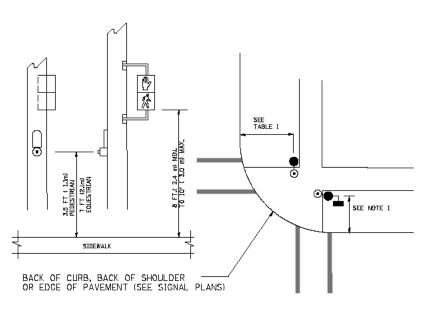
### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



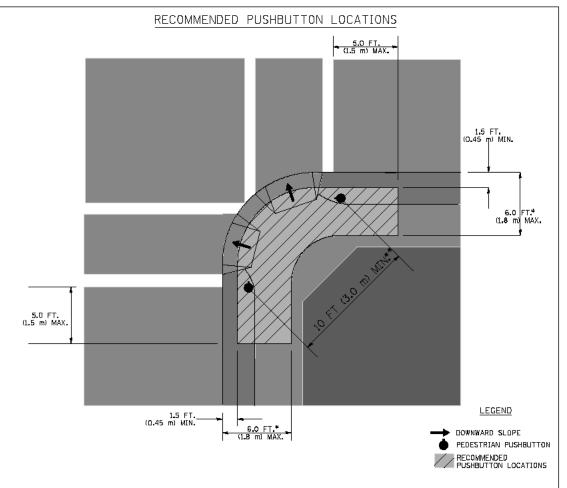
- THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

# <u>PEDESTRIAN SIGNAL POST</u> <u>AND</u> <u>PEDESTRIAN PUSH BUTTON POST</u>



### NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

## NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

### TRAFFIC SIGNAL EQUIPMENT OFFSET

THAT TO STONE EAST MENT OF SET							
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)					
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TRAFFIC SIGNAL POST	4 FT (1_2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
TEMPORARY WOOD POLE	6 FT (1 _∞ 8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)					
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.					

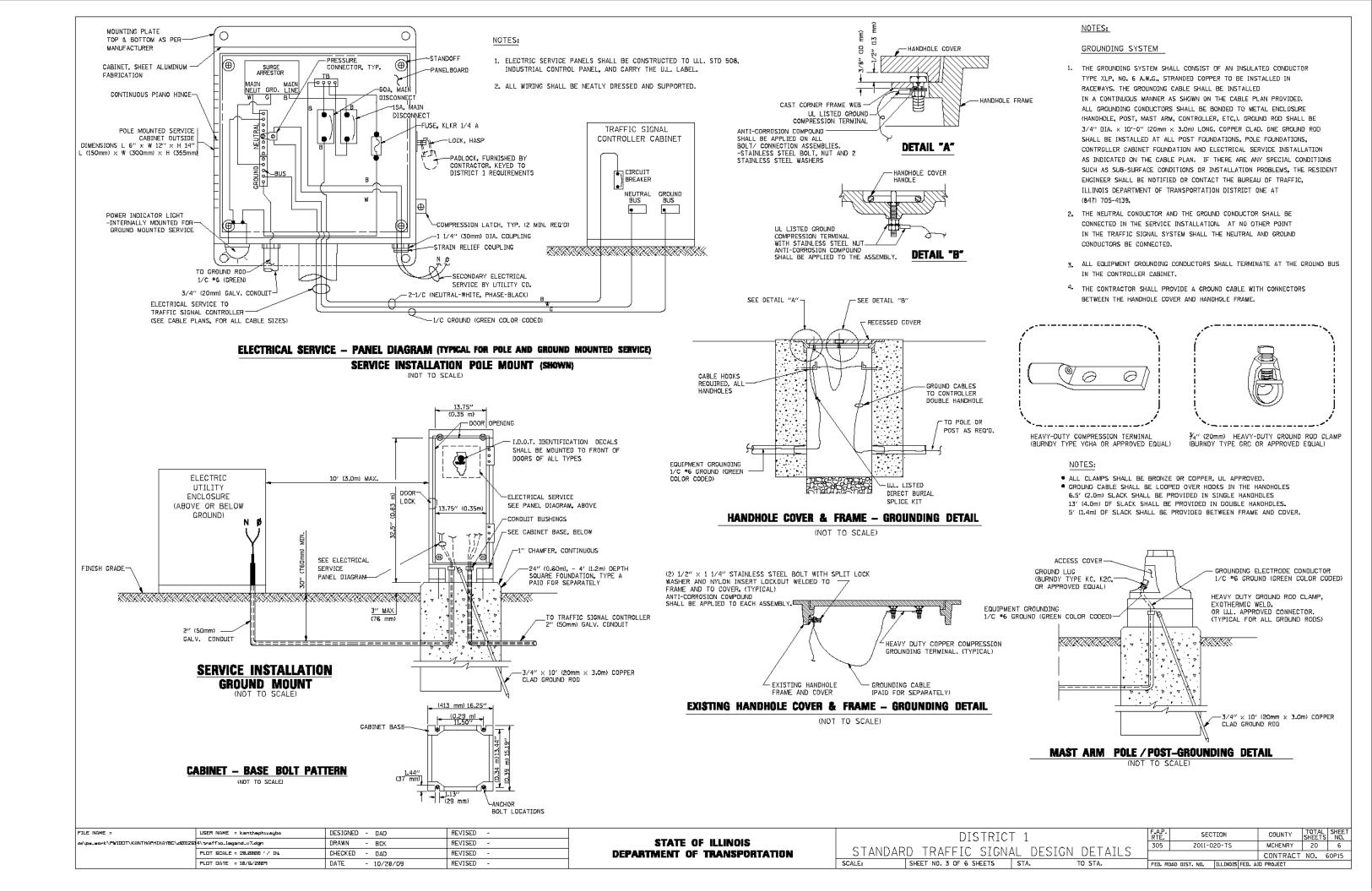
### NOTES:

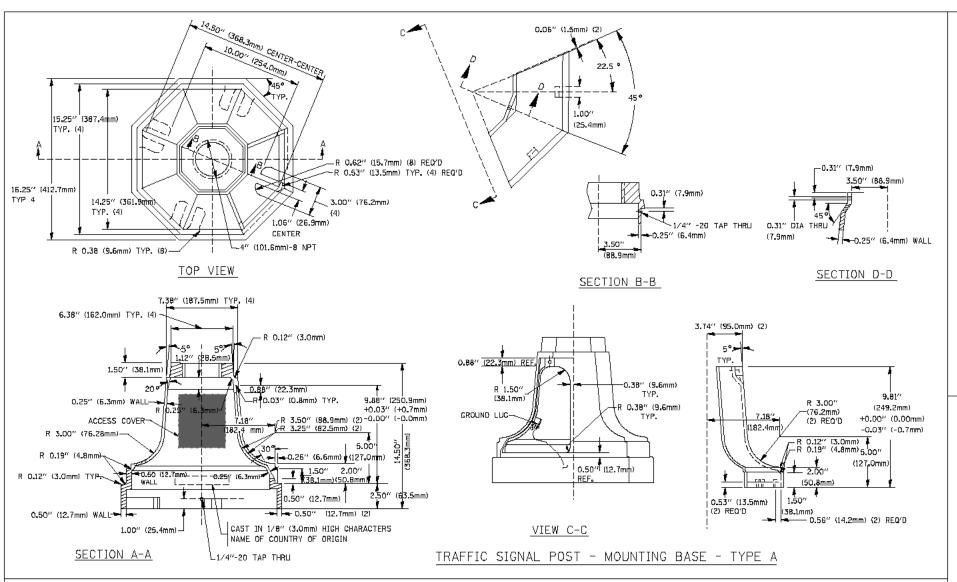
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANCES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

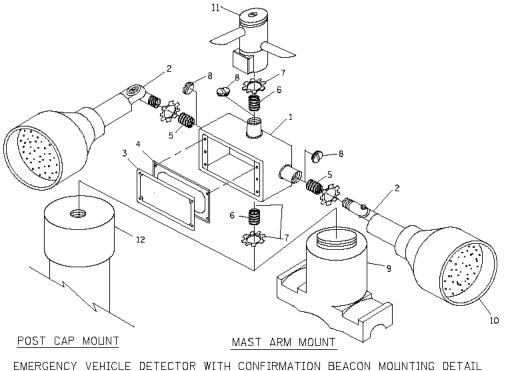
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# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	DISTRICT	1		F.A.P. RTE.	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
C = X N D X D D	TRAFFIC SICNA	- DESIGN	DETAILC	305	2011-0	20-TS	MCHENRY	20	5
2 LANDARD	) TRAFFIC SIGNA	L DESIGN	DETAILS				CONTRACT	NO.	60P15
SCALE:	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	FEO. RO	DAD DIST. NO.	ILLINOIS FED. AT	D PROJECT		







USER NAME = kenthaphikaybo

PLOT SCALE = 20.0000 // INL

PLOT DATE = 18/6/2009

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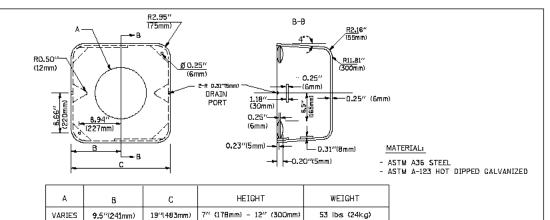
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# ITEM NO. IDENTIFICATION 1 OUTLET BOX- GALV, 21 CU,IN, (0,000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 %4"(19 mm) CLOSE NIPPLE 7 %4"(19 mm) LOCKNUT 8 %4"(19 mm) HOLE PLUG 9 SADDLE BRACKET - GALV. 10 6 WATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT. (5.4 m) POST MIN.]

### NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALLIMINUM OR GALVANIZED
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
  ITEM *2- MULBERRY CON-0-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 % "(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.

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



6B lbs (31 kg)

126 lbs (57 kg)

## SHROUD

" (178mm) - 12" (300mm

### NOTES:

- 1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

21.5"(546mm

26"(660mm)

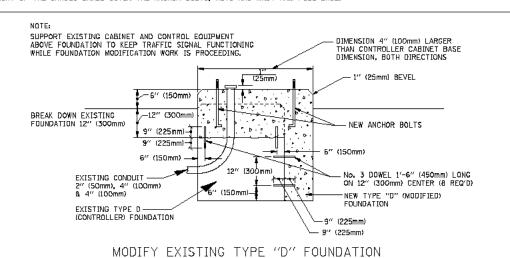
10.75"(273mm

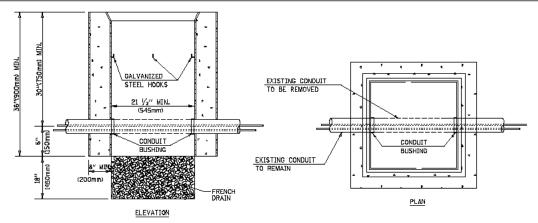
13.07(330mm)

18.5"(470mm)

VARIES

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



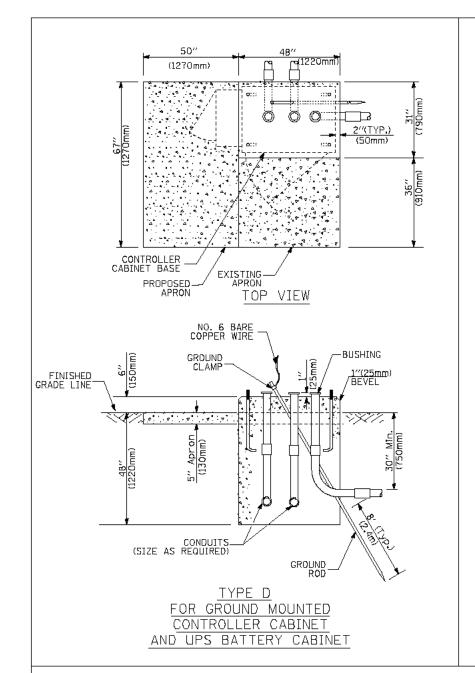


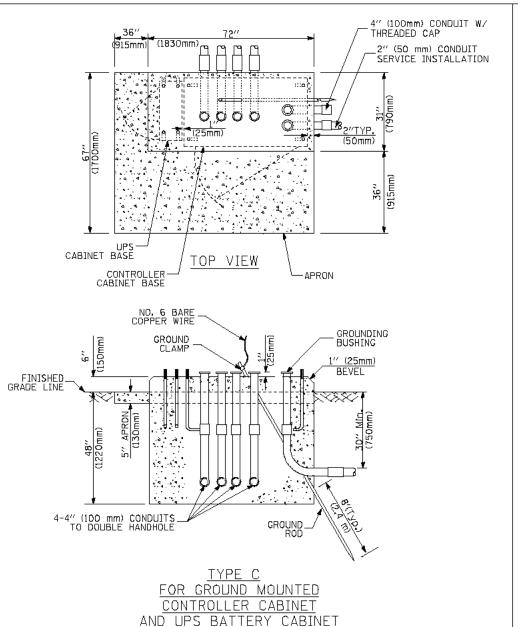
### NOTES:

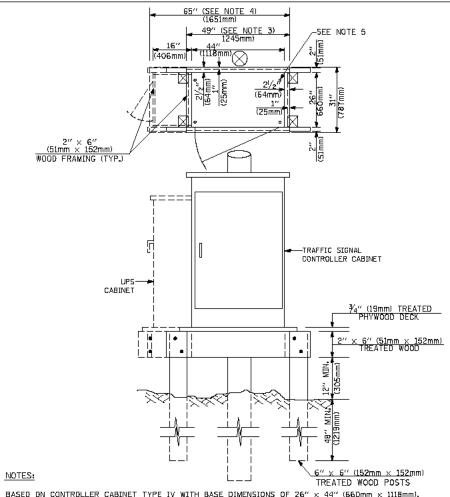
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

### HANDHOLE TO INTERCEPT EXISTING CONDUIT

DISTRICT 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	305	2011-020-TS	MCHENRY	20	7
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			CONTRACT	NO. 6	50P15
CALE: SHEET NO. 4 OF 6 SHEETS   STA. TO STA.	FFD. RC	DAD DIST. NO. THEINGIS FED. A	D PROJECT		$\neg$







- BASED DN CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (56Dmm x 1118mm).
   ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16"  $\times$  25" (406mm  $\times$  635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. ORILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

# TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
5IGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.5

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE ( MAST ARM MOUNTED SIGNAL HEAD)		
(L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	5.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION PDLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

TYPE D - CONTROLLER 4'-0"	4'-0" (1.2m)
SERVICE INSTALLATION, 4'-0"	4'-0" (1.2m)
GROUND MOUNT.	4'-0" (1.2m)
	4'-0" (1.2m)

FOUNDATION

DEPTH OF FOUNDATION

ST

SCALE:

<ul><li>Foundation</li><li>Depth</li></ul>	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebors
10'-0'' (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
13'-0" (4.0 m)	36" (900mm)	<b>3</b> 0" (750mm)	12	7(22)
15'-0'' (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)
	Depth  10'-0'' (3.0 m)  13'-6" (4.1 m)  11'-0" (3.4 m)  13'-0" (4.0 m)  15'-0" (4.6 m)  21'-0" (6.4 m)	Depth   Digmeter   10'-0'' (3.0 m)   30" (750mm)   13'-6" (4.1 m)   30" (750mm)   11'-0" (3.4 m)   36" (900mm)   13'-0" (4.0 m)   36" (900mm)   15'-0" (4.6 m)   36" (900mm)   21'-0" (6.4 m)   42" (1060mm)	Depth   Dlameter   Dlameter   10'-0'' (3.0 m)   30" (750mm)   24" (600mm)   13'-6" (4.1 m)   30" (750mm)   24" (600mm)   11'-0" (3.4 m)   36" (900mm)   30" (750mm)   13'-0" (4.0 m)   36" (900mm)   30" (750mm)   15'-0" (4.6 m)   36" (900mm)   30" (750mm)   21'-0" (6.4 m)   42" (1060mm)   36" (900mm)	Depth         Dlameter         Dlameter         Rebars           10'-0'' (3.0 m)         30" (750mm)         24" (600mm)         8           13'-6" (4.1 m)         30" (750mm)         24" (600mm)         8           11'-0" (3.4 m)         36" (900mm)         30" (750mm)         12           13'-0" (4.0 m)         36" (900mm)         30" (750mm)         12           15'-0" (4.6 m)         36" (900mm)         30" (750mm)         12           21'-0" (6.4 m)         42" (1060mm)         36" (900mm)         16

### NOTES:

DEPTH

- These foundation depths are for sites which have cohesive sails (clayey siit, sandy clay, etc.) along
  the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpa).
  This strength shall be verified by boring data prior to construction or with testing by the Engineer
  during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
  design if other conditions are encountered.
- 2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
- 4. For mast arm assemblies with dual arms refer to state standard 878001.

## DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TANDARD TRAFFIC SIGNAL DESIGN DETAILS	305	2011-020-TS	MCHENRY	20	8
TANDARD TRAFFIC SIGNAL DESIGN DETAILS			CONTRACT	NO. 6	50P15
SHEET NO. 5 OF 6 SHEETS STA. TO STA.	FEO. RO	DAD DIST. NO.   ILLINOIS FED. A	ID PROJECT		

#### TRAFFIC SIGNAL LEGEND REMOVAL EXISTING PROPOSED REMOVAL EXISTING PROPOSED ITEM REMOVAL EXISTING PROPOSED ITEM ITEM R≪ ELECTRIC CABLE IN CONDUIT, TRACER, ∝ CONTROLLER CABINET $\boxtimes$ $>\!\!<$ EMERGENCY VEHICLE LIGHT DETECTOR ightharpoonsNO. 14 1/C, UNLESS NOTED OTHERWISE R_o⊸(I RAILROAD CONTROL CABINET $\sim$ . CONFIRMATION BEACON ⊶(] -4 **—**©— COAXIAL CABLE COMMUNICATIONS CABINET ECC CC СС $R_{\square}$ HANDHOLE MASTER CONTROLLER EMC MC VENDOR CABLE FOR CAMERA —(v)— Н Н HEAVY DUTY HANDHOLE MASTER MASTER CONTROLLER EMMC MMC R COPPER INTERCONNECT CABLE, UP\$ EUP\$ UP\$ $\Delta$ UNINTERRUPTIBLE POWER SUPPLY DOUBLE HANDHOLE <del>-(6)-</del> NO. 18 3 PAIR TWISTED, SHIELDED R Φ (0) JUNCTION BOX SERVICE INSTALLATION, -D-P -□^R FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT GALVANIZED STEEL CONDUIT NO. 62.5/125, MM12F IN TRENCH (T) OR PUSHED (P) TELEPHONE CONNECTION P FIBER OPTIC CABLE (P) POLE OR (G) GROUND MOUNT -(24F)-TEMPORARY SPAN WIRE, TETHER WIRE, NO. 62.5/125, MM12F SM12F AND CABLE STEEL MAST ARM ASSEMBLY AND POLE $\sim$ FIBER OPTIC CABLE NO. 62.5/125, ALUMINUM MAST ARM ASSEMBLY AND POLE a=== COMMON TRENCH CT(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS) COILABLE NONMETALLIC CONDUIT (EMPTY) CNC STEEL COMBINATION MAST ARM 0-\a-**● ¥** ×⊸o′ ASSEMBLY AND POLE WITH LUMINAIRE GROUND ROD AT (C) CONTROLLER, SYSTEM ITEM S (H) HANDHOLE, (P) POST, (M) MAST ARM, STEEL COMBINATION MAST ARM OR (5) SERVICE INTERSECTION ITEM ΙP [FTZ]0 PZ. ASSEMBLY AND POLE WITH PTZ CAMERA CONTROLLER CABINET AND REMOVE ITEM 0 SIGNAL POST RO $\geq$ FOUNDATION TO BE REMOVED RELOCATE ITEM RI TEMPORARY WOOD POLE (CLASS 5 OR $\otimes$ ҈ 👁 $^{\mathsf{R}}\!\!\otimes\!$ BETTER) 45 FOOT (13.7m) MINIMUM STEEL MAST ARM POLE AND ABANDON ITEM FOUNDATION TO BE REMOVED <u>>₹</u> $\mathbb{R}$ R GUY WIRE >--12" (300mm) TRAFFIC SIGNAL SECTION ALUMINUM MAST ARM POLE AND ₽ FOUNDATION TO BE REMOVED **-**> SIGNAL HEAD -12" (300mm) RED WITH 8" (200mm) SIGNAL HEAD CONSTRUCTION STAGES YELLOW AND GREEN TRAFFIC SIGNAL FACE STEEL COMBINATION MAST ARM ASSEMBLY (NUMBERS INDICATE THE CONSTRUCTION STAGE) AND POLE WITH LUMINAIRE AND <u>0-×</u> FOUNDATION TO BE REMOVED +I⊳^R SIGNAL HEAD WITH BACKPLATE +> SIGNAL POST AND FOUNDATION RMF G SIGNAL HEAD OPTICALLY PROGRAMMED —(>-/p// SIGNAL FACE —(`>**-**′′P'′ TO BE REMOVED **∢**Y **∢**G FLASHER INSTALLATION O-t><u>"</u>"F" $\bullet = ^{n_{\mathbb{P}^n}}$ (G INTERSECTION & SAMPLING (\$ DENOTES SOLAR POWER) OH>#F" IS IS (SYSTEM) DETECTOR ት $\neg\Box$ PEDESTRIAN SIGNAL HEAD -5 S SAMPLING (SYSTEM) DETECTOR SIGNAL FACE WITH BACKPLATE. R (®a) PEDESTRIAN PUSHBUTTON DETECTOR G ◆Y ◆G **(a)** EXISTING INTERSECTION LOOP DETECTOR "P" INDICATES PROGRAMMED HEAD PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR ® APS (60)APS (®) APS EXISTING PREFORMED INTERSECTION LOOP DETECTOR PP ILLUMINATED SIGN PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR (3) (3) 9 "NO LEFT TURN" (S) 12" (300mm) PEDESTRIAN SIGNAL HEAD PREFORMED INTERSECTION AND SAMPLING PI5 PIS WALK/DON'T WALK SYMBOL (SYSTEM) DETECTOR TITUMINATED SIGN (B) **(B)** "NO RIGHT TURN" 12" (300mm) PEDESTRIAN SIGNAL HEAD PS] PREFORMED SAMPLING (SYSTEM) DETECTOR INTERNATIONAL SYMBOL, OUTLINED DETECTOR LOOP, TYPE I 12" (300mm) PEDESTRIAN SIGNAL HEAD RAILROAD SYMBOLS [P] P PREFORMED DETECTOR LOOP INTERNATIONAL SYMBOL, SOLID PEDESTRIAN SIGNAL HEAD, INTERNATIONAL MICROWAVE VEHICLE SENSOR K∭" $\mathbb{M}$ (M)¶ SYMBOL, WITH COUNTDOWN TIMER EXISTING PROPOSED VIDEO DETECTION CAMERA r(V) D(V) $\bigcirc$ **)** RAILROAD CONTROL CABINET + • ---------RADIO INTERCONNECT <del>/////</del> VIDEO DETECTION ZONE $\Sigma$ XeX X RAILROAD CANTILEVER MAST ARM R ERR ERR RR RADIO REPEATER FLASHING SIGNAL $\times$ XOX (F) DENOTES NUMBER OF CONDUCTORS, ELECTRIC PAN, TILT, ZOOM CAMERA <del>-</del>(5)-CABLE NO. 14, UNLESS NOTED OTHERWISE, CROSSING GATE <del>X0</del>∑⇒ X-X-ALL DETECTOR LOOP CABLE TO BE SHIELDED $R_{(W)}$ (1) (W) WIRELESS DETECTOR SENSOR GROUND CABLE IN CONDUIT CROSSBUCK >∀< $\rightarrow$ ---(1)------(1)--WIRELESS ACCESS POINT $\Box$ NO. 6 SOLID COPPER (GREEN) DESIGNED - DAG/BCK FILE NAME : USER NAME = kenthephizaybo REVISED -SECTION COUNTY DISTRICT 1 STATE OF ILLINOIS or\pw_work\PWI00T\K9NTH4PHIXAYBC\d0312614\traffia_legend_v7.dom DRAWN BCK REVISED -2011-020-TS MCHENRY 305 20 STANDARD TRAFFIC SIGNAL DESIGN DETAILS PLOT SCALE = 20.0000 // INL CHECKED - DAD REVISED -DEPARTMENT OF TRANSPORTATION CONTRACT NO. 60P15

SCALE: NONE

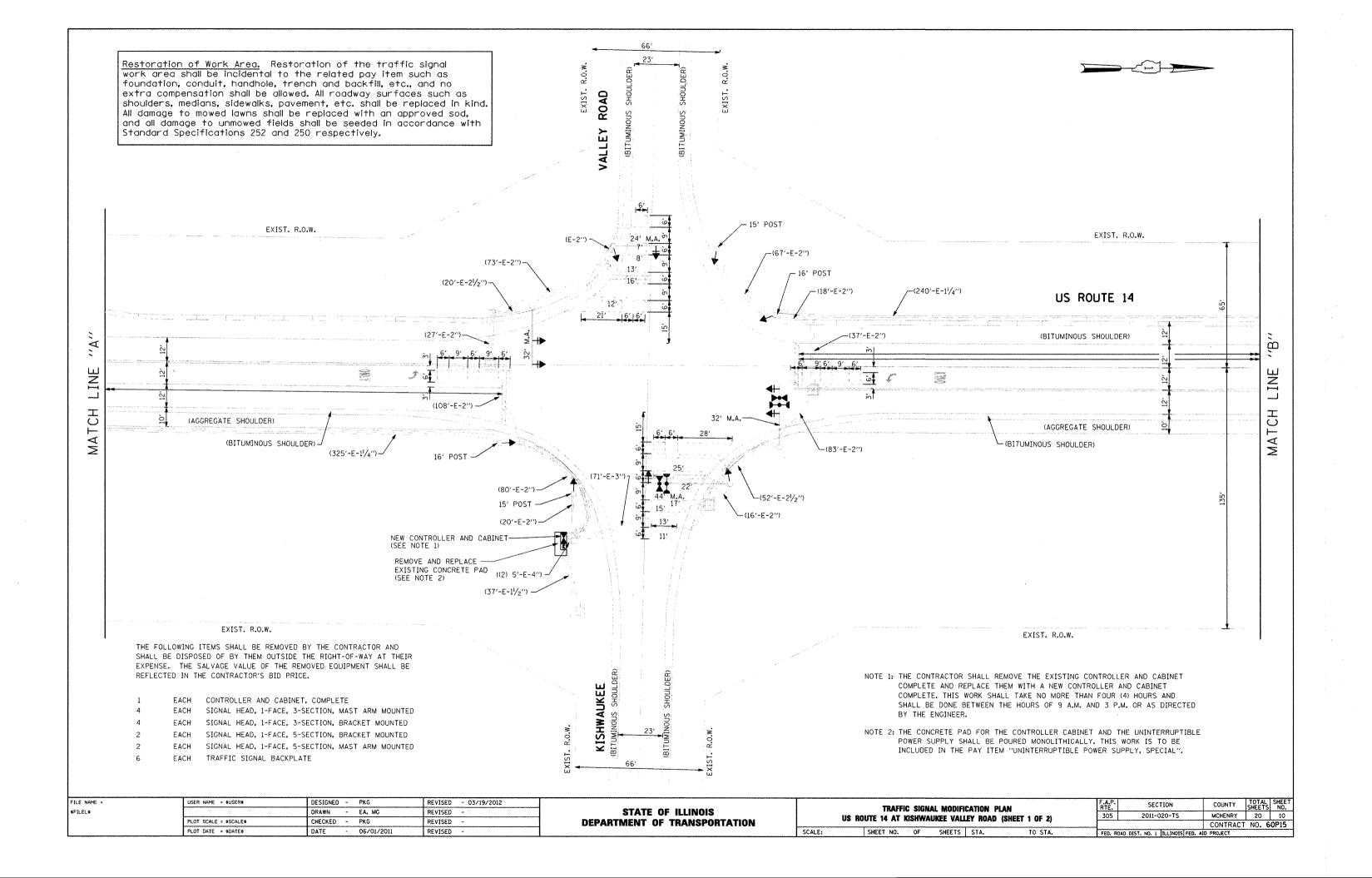
SHEET NO. 6 OF 6 SHEETS STA.

FED. RDAD DIST. NO. | ILLINOIS FED. AID PROJECT

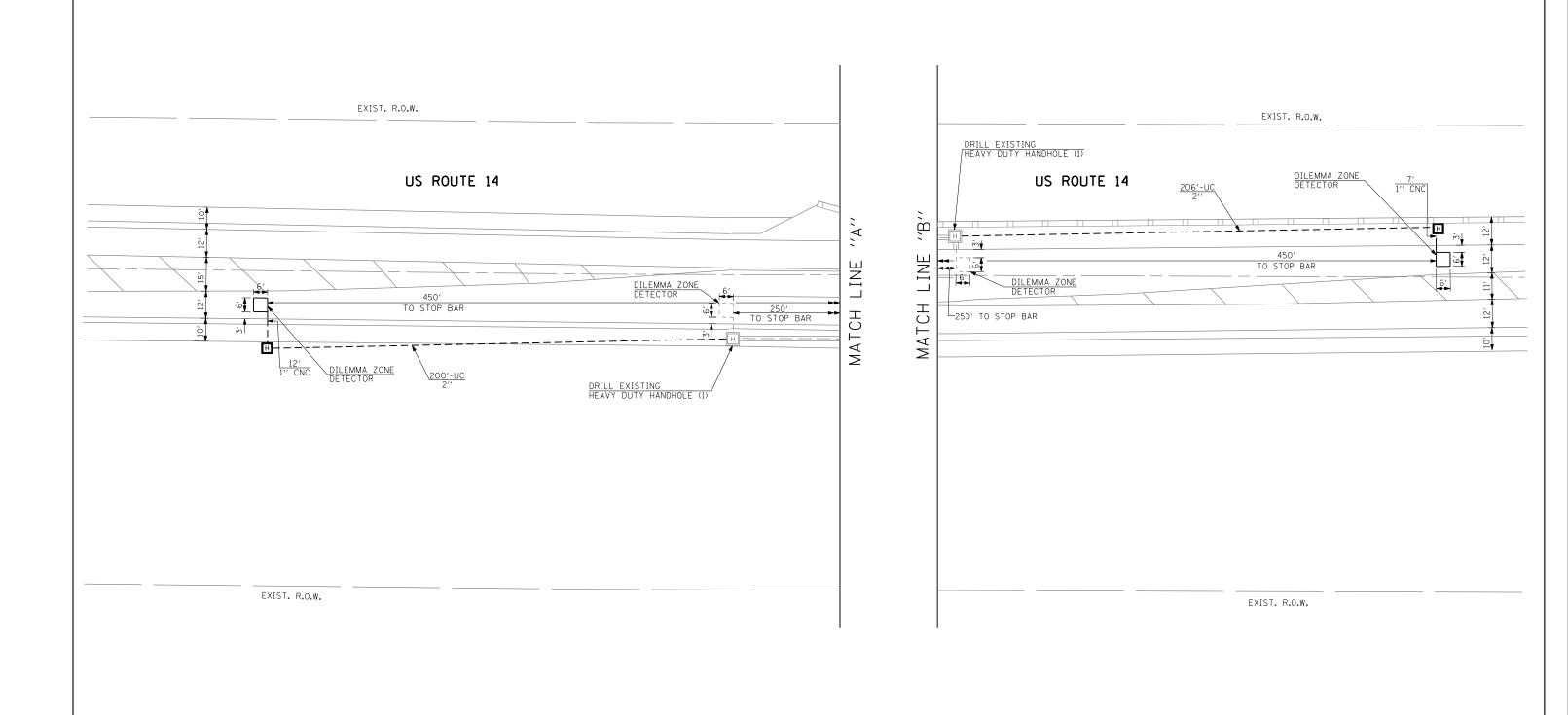
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DATE

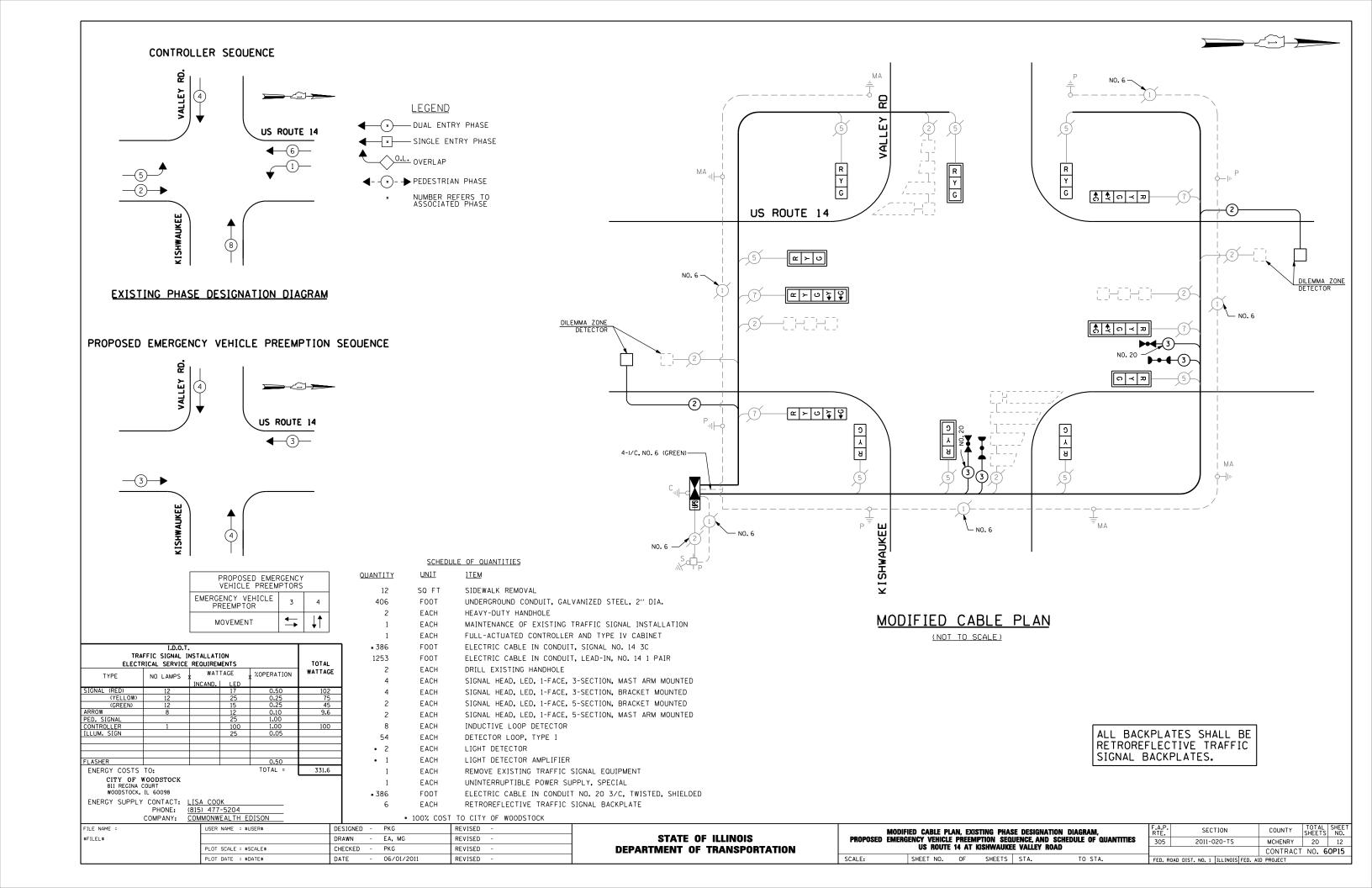
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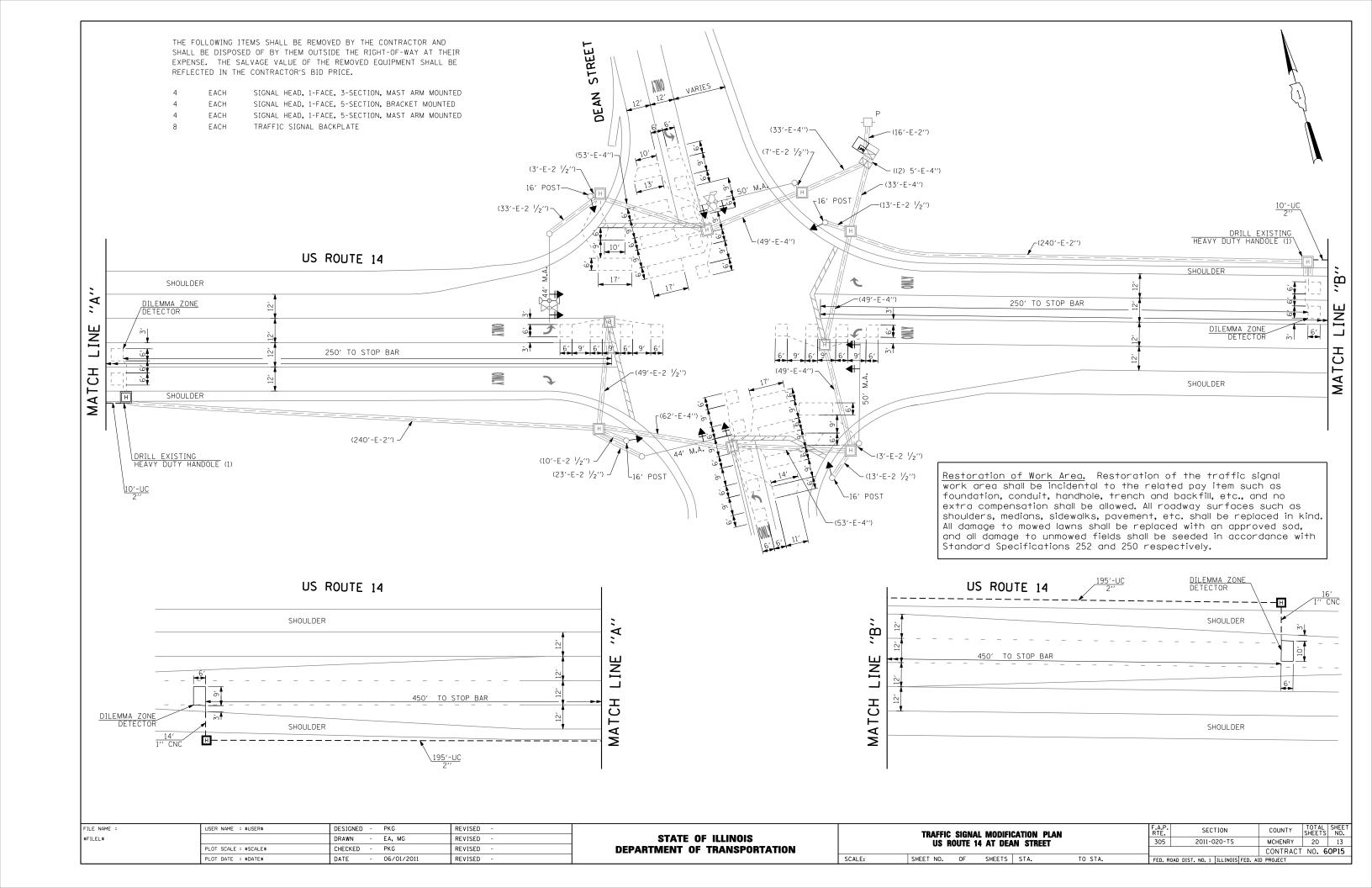


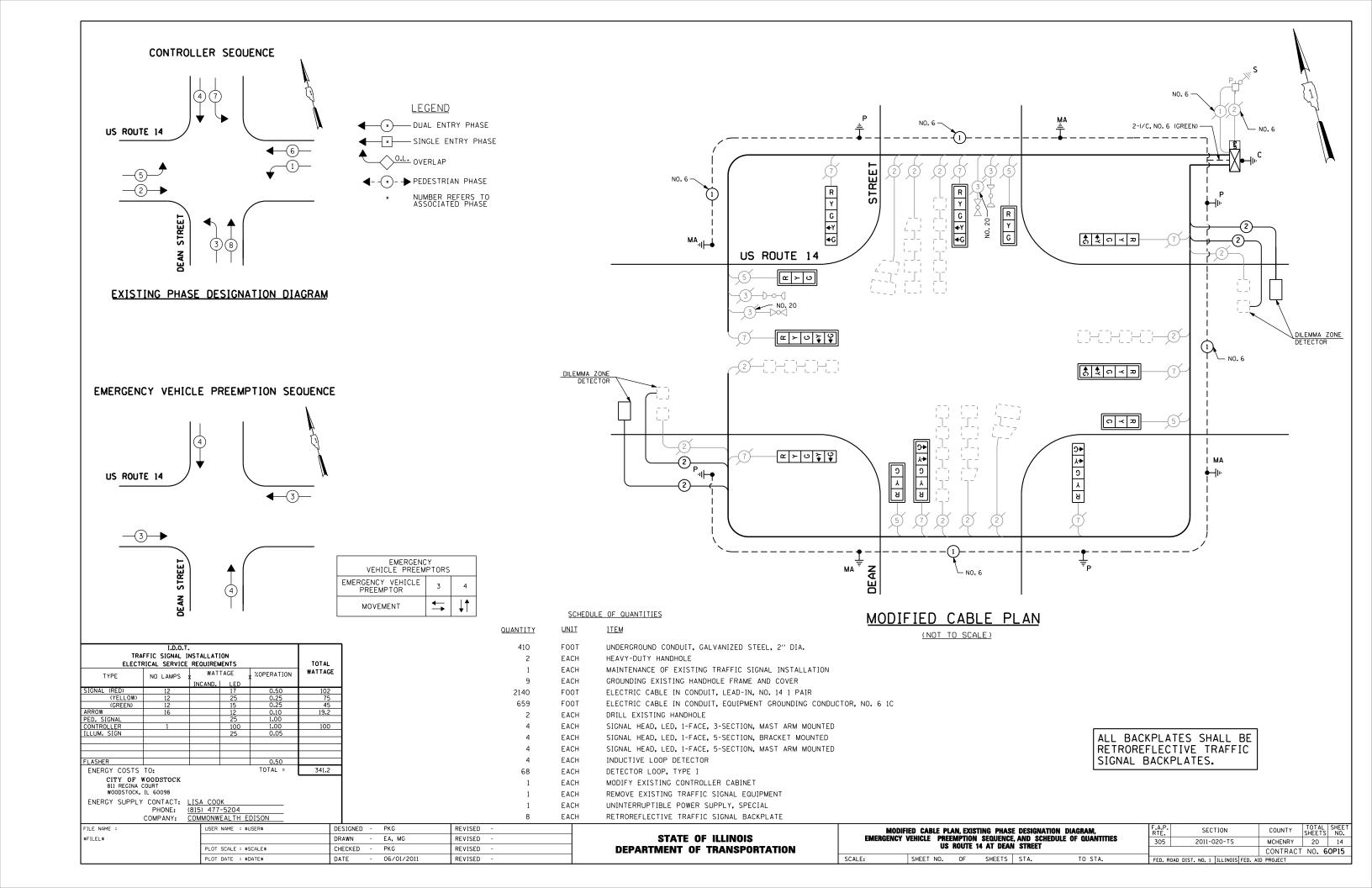


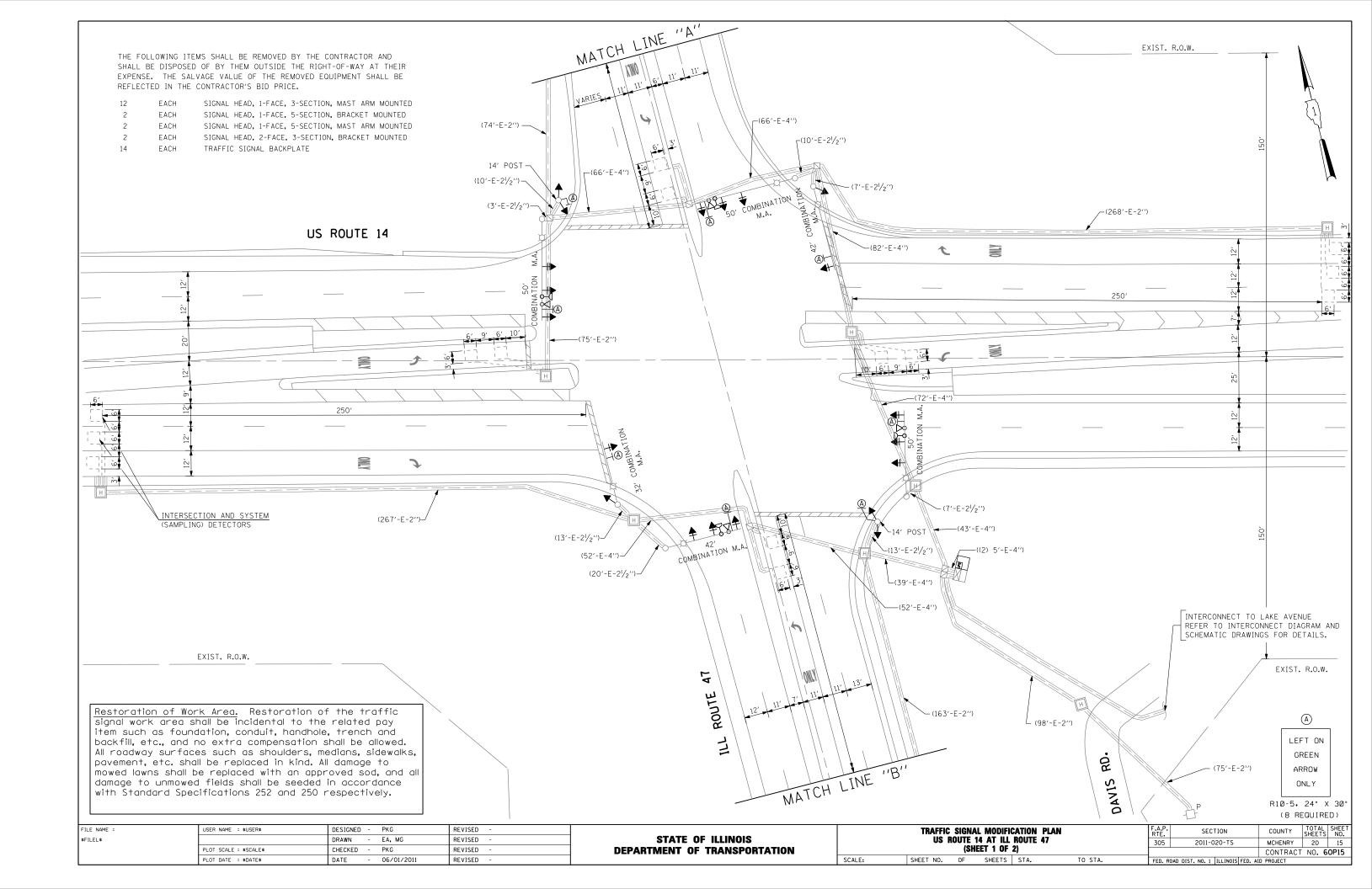


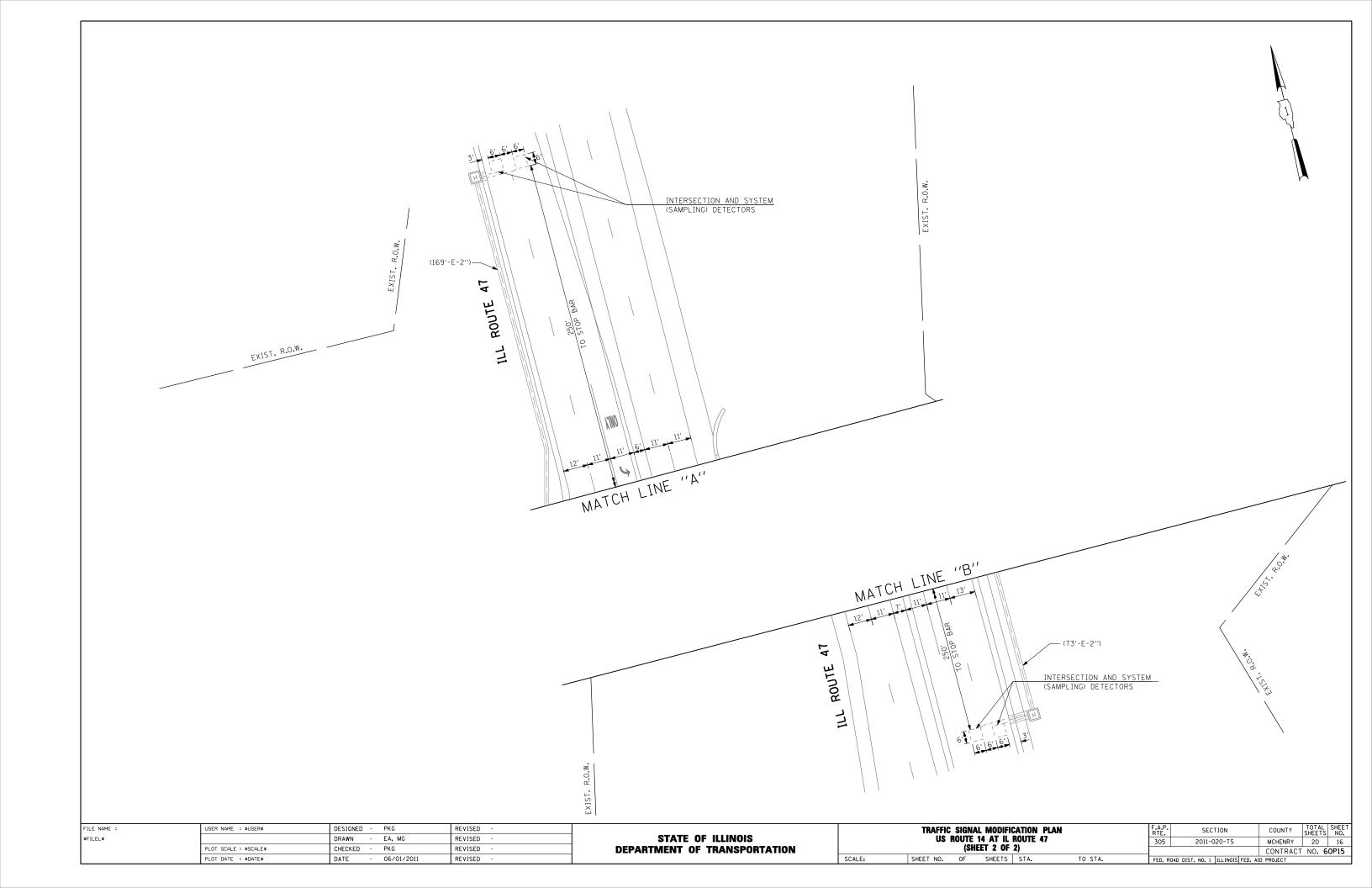
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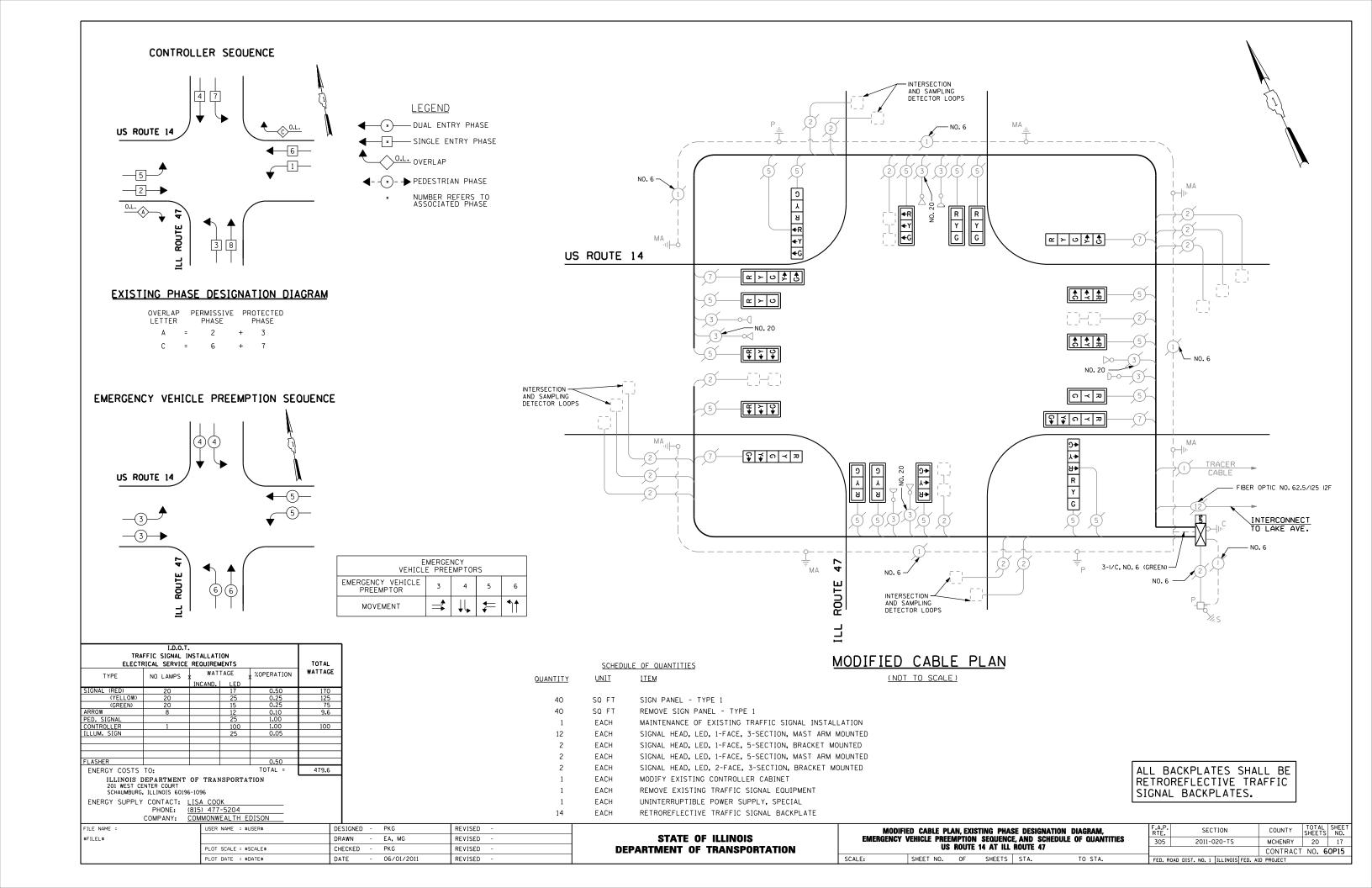


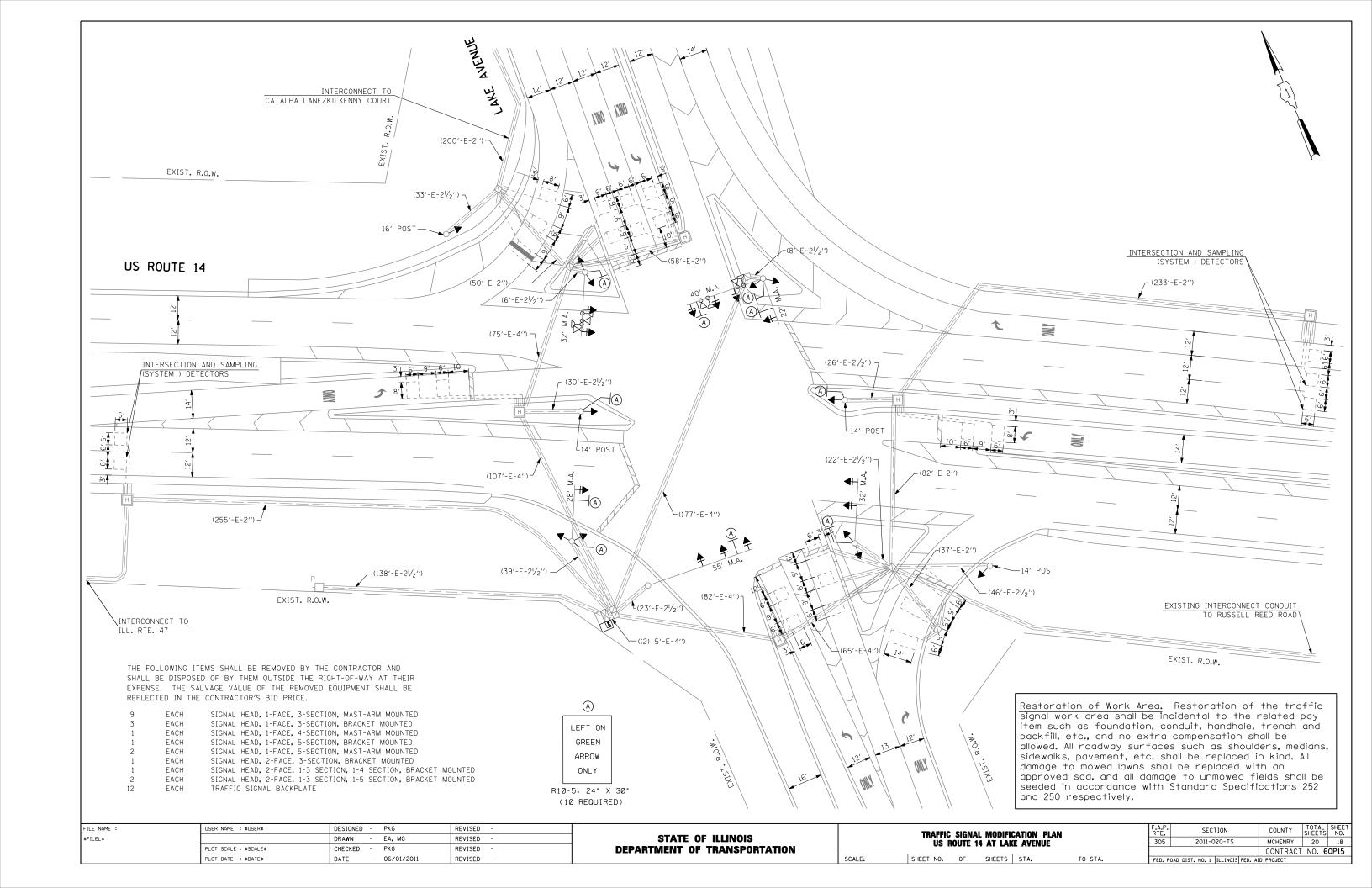


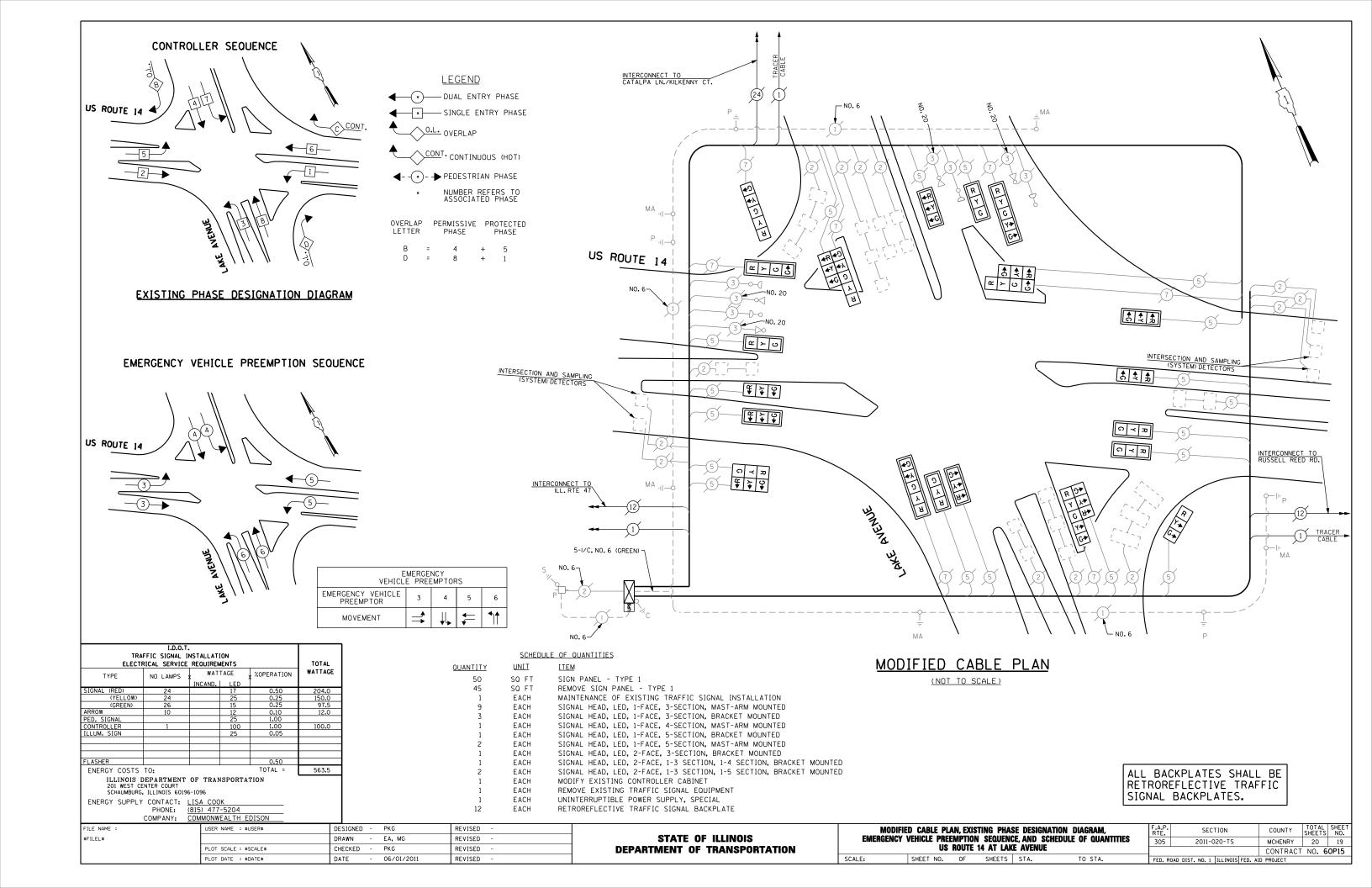


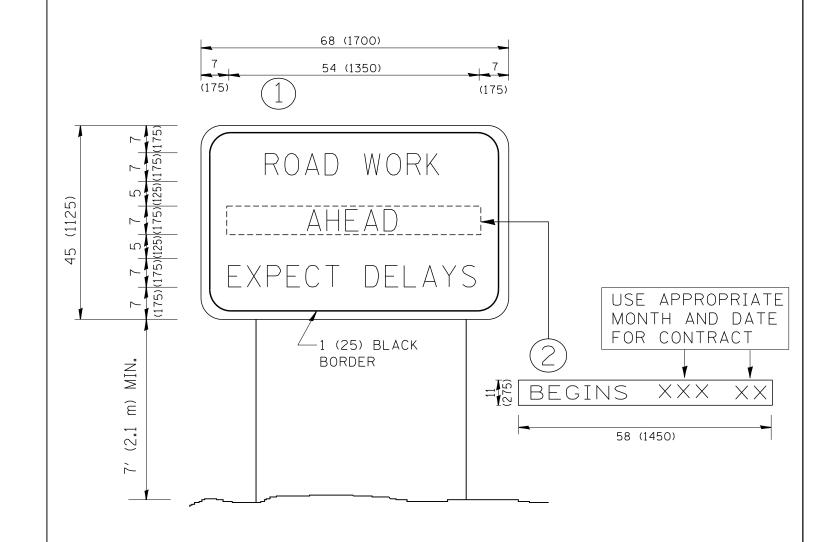












# NOTES:

- 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.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	<u> </u>		ARTERIAL ROAD	F.A SECTION	COUNTY TOTAL SHEET
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS			2011-020-TS	McHenry 20 20
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFORMATION SIGN	TC-22	CONTRACT NO. 60P15
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.		D. AID PROJECT