3.

4.-9.

10.

12.

13.

GENERAL NOTES

IDOT STANDARDS:

SIGN PANEL MOUNTING DETAILS

SUMMARY OF QUANTITIES

DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD

IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD

IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD

MAST ARM MOUNTED STREET NAME SIGNS IL ROUTE 83 (TORRENCE AVENUE) / GLENWOOD DYER ROAD

TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM

OFF-ROAD OPERATIONS, MULTILANE, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE LANE CLOSURE, MULTILANE DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED URBAN LANE CLOSURE, MULTILANE INTERSECTION TRAFFIC CONTROL DEVICES

SIGN PANEL MOUNTING DETAILS
HANDHOLES
DOUBLE HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
DETECTOR LOOP INSTALLATION
UNINTERRUPTABLE POWER SUPPLY (UPS)
STEEL MAST ARM ASSEMBLY AND POLE 16'THROUGH 55'
STEEL COMB. MAST ARM ASSEMBLY AND POLE 16'THROUGH 55'
CONCRETE FOUNDATION DETAILS
SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
TRAFFIC SIGNAL MOUNTED.

STATE OF ILLINOIS

2937 2011-040-TS COOK 14 / 1 ILLINOIS CONTRACT NO. 60P46 FED. ROAD DIST. NO.

COUNTY

X14+1=15

SECTION

D-91-544-1

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1 HIGHWAY SAFETY IMPROVEMENT PROJECT IL ROUTE 83 (TORRENCE AVENUE) @ **GLENWOOD DYER ROAD** F.A.U. ROUTE 2937 / IL ROUTE 83 (TORRENCE AVENUE) COOK COUNTY Proj. HSIP-2937(005) **SECTION 2011-040-TS** PROJECT NO. C-91-544-11

LYNWOOD FORD HEIGHTS R. 15 E

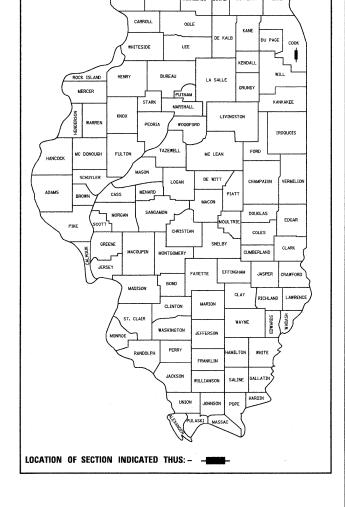
LOCATION MAP

N.T.S.

IL ROUTE 83 (TORRENCE AVENUE) @ GLENWOOD DYER ROAD

DATE: 10-21-11

CEMCON, Led. Consulting Engineers, Land Surveyors & Planners 2200 White Oak Circle, Suite 100 Aurora, Illinois 60504-9675 Phi 630.862.2100 Fax: 500.862.2199 E-Mail: acadeacemoon.com Website: www.cemcon.com

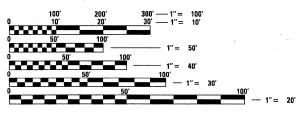


DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS SUBMITTED Oct 27 Dam M. Orespe 12 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER Documber 9 20 11 Scott E. Still P.E. In Costing ENGINEER OF DESIGN AND ENVIRONMENT

STATE OF ILLINOIS

Docomber 9 20 11 Wolsom R. Fray la-Enterin DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-800-892-0123

OR 811

CONTRACT NO. 60P46

(847) DREW

TRAVIA / DARYLE

H

GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 (HEREINAFTER REFEREED TO AS THE "STANDARD SPECIFICATIONS"; THE LATEST "SUPPLEMENTAL SPECIFICATIONS" AND "RECURRING SPECIAL PROVISIONS"; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2. ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST STANDARD OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- 3. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) AT LEAST 10 DAYS PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. ALL UTILITIES MUST BE NOTIFIED AND STAKED PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SHALL NOTIFY THE ENGINEER AT ONCE OF ANY DISCREPANCIES.
- 5. THE CONTRACTOR IS REQUIRED TO ATTEND AN ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) PRECONSTRUCTION MEETING AND SHALL INFORM THE IDOT TRAFFIC ENGINEER BEFORE
- 6. THE CONTRACTOR SHALL KEEP PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE IN PROVIDING SAFE AND HEALTHFUL CONDITIONS THROUGHOUT THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 9. RESTORATION OF THE WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS 252 AND 250, RESPECTIVELY.
- 10. CONTROLLER CABINETS SHALL BE PLACED SO THAT d) THE DOORS OPEN AWAY FROM THE CURB OR TRAVEL WAY., b) AND THE TRAFFIC MOVEMENTS AT THE INTERSECTION ARE VISIBLE FROM THE CONTROLLER.
- 11. ANY CONTROLLER CABINET WHETHER NEW OR EXISTING TO RECEIVE UPS, WILL HAVE A "L" SHAPED 4 FOOT CONCRETE MAINTENANCE PAD INSTALLED. SEE PLANS FOR DETAIL. THE COST OF INSTALLATION OF CONCRETE PAD IS INCIDENTAL TO NEW CONTROLLER AND OR UPS

PREPARED BY CEMCON, Led. Consulting Engineers, Land Surveyors & Planners 2280 White Oak Circle, Sulte 100 Aurora, Illinois 60504-9675 Ph: 630.862.2100 Fax: 630.862.2199 E-Mail: cadd@cemcon.com Website: www.cemcon.com

FILE NAME USER NAME = JGC DESIGNED - BPT REVISED \MICROST\3521Ø2\ Ø2-GENNOTES.DGN DRAWN - JGC REVISED PLOT SCALE = NONE CHECKED - BPT REVISED PLOT DATE = 10-21-11 - 10-21-11 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA.

TOTAL SHEET SHEETS NO. 2937 C00K 14 2 2011-040-TS CONTRACT NO. 60P46

			90% FEDERAL 10%	STATE
			URBAN	CONSTRUCTION
	SUMMARY OF QUANTITIES		URBAN	TYPE CODE 0021
PAY			TOTAL	TORRANCE AT
CODE			TOTAL	GLENWOOD DYER
NUMBER	ITEM	UNIT	QUANTITY	QUANTITY
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	LSUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	. 1
72000100	SIGN PANEL - TYPE 1	SQ FT	35. <u>5</u>	35.5
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1121	1121
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	39	39
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	127	127
78300100	PAVEMENT MARKING REMOVAL	SQ FT	176	176
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1473	1473
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	108	108
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	57	57
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	241	241
81400100	HANDHOLE	EACH	4	4
81400200	HEAVY DUTY HANDHOLE	EACH	9	9
81400300	DOUBLE HANDHOLE	EACH	1	1
85700200 87301225	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1	1
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	250	250
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1453	1453
87301233	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1367	1367
87301805	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	2175	2175
87301900	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	224	224
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	FOOT	791	791
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT. TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2	2
87700170	STEEL MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	2	2
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 20 FT. STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2 1	2
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT. STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH EACH	1	1
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12	12
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4	4
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	20	20
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	22	22
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4	4
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2	2
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4	4
88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4	4
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8	8
88500100	INDUCTIVE LOOP DETECTOR	EACH	10	10
88600100	DETECTOR LOOP, TYPE 1	FOOT	660	660
88700200	LIGHT DETECTOR	EACH	2	2
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1	1
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1	1
89502380	REMOVE EXISTING HANDHOLE	EACH	8	8
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	7	7
X8730250	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C, TWISTED, SHIELDED	FOOT	250	250
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1	1
V000 00 04	LININITED DUDTIDLE DOMACO OLIDDI MODE OLM			

• 100% COST TO THE VILLAGE OF LYNWOOD

FILE NAME =

\MICROST\352102\ 03-SUMMARY.DGN

* Specialty Hems
DESIGNED - BPT USER NAME = JGC REVISED -DRAWN - JGC CHECKED - BPT REVISED -PLOT SCALE = NONE REVISED PLOT DATE = 10-21-11 DATE - 10-21-11 REVISED

X8620200 UNINTERRUPTIBLE POWER SUPPLY SPECIAL

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES IL ROUTE 83 (TORRENCE AVENUE) AT GLENWOOD DYER ROAD SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

EACH

F.A.U. SECTION COUNTY TOTAL SHEE SHEETS NO.	CHANGE TO A P. A.	_1	o, Suite 100 504-9675 ax: 630.862.219	9	
	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2937 2011-040-TS COOK 14 3	2937	2011-040-TS	COOK	14	3

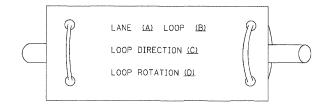
PREPARED BY:

CONTRACT NO. 60P46

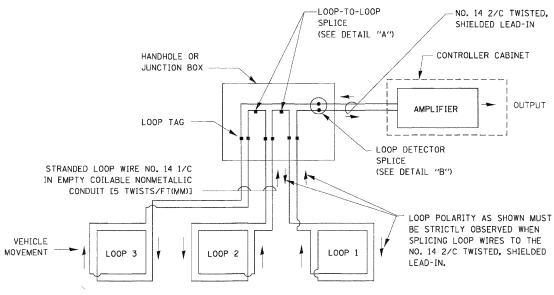
LOOP DETECTOR NOTES

- 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
- 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

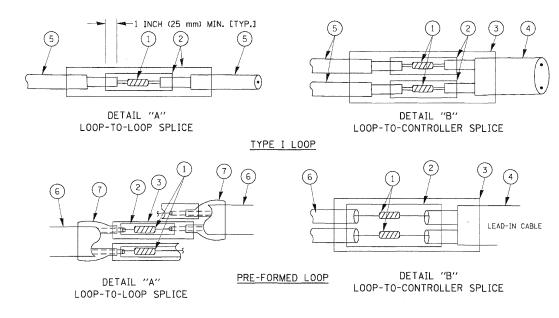


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



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.



TOTAL SHEETS NO.

CONTRACT NO. 60P46

COUNTY

SECTION

2011-040-TS

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

2937

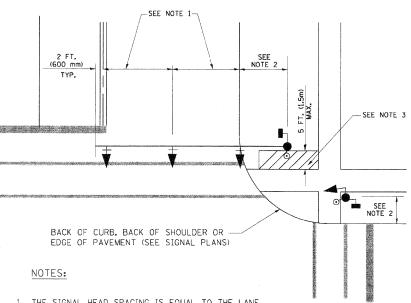
LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES 1 WESTERN UNION SI LICE STATE 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
- The REAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

	FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED - DAD	REVISED -			DISTRICT ONE	
	c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØ1126	4\traffic_legend_v7.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	07.110.00	DISTRICT ONE	
1		PLOT SCALE = 20.0000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD	TRAFFIC SIGNAL DESIGN	1 DETAILS
		PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -		SCALE: SH	EET NO. 1 OF 6 SHEETS STA.	TO STA.

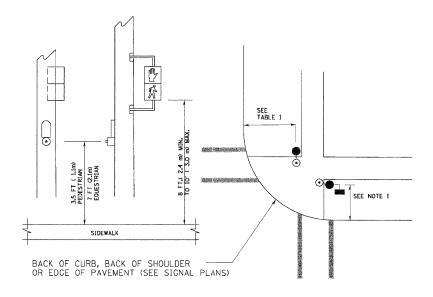
TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



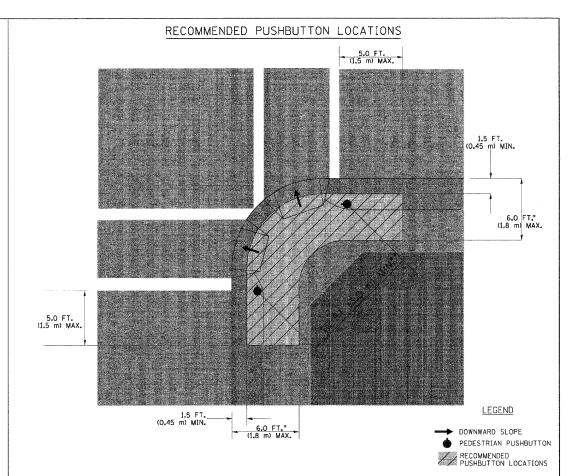
- THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. 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."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 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:

- 1. 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.

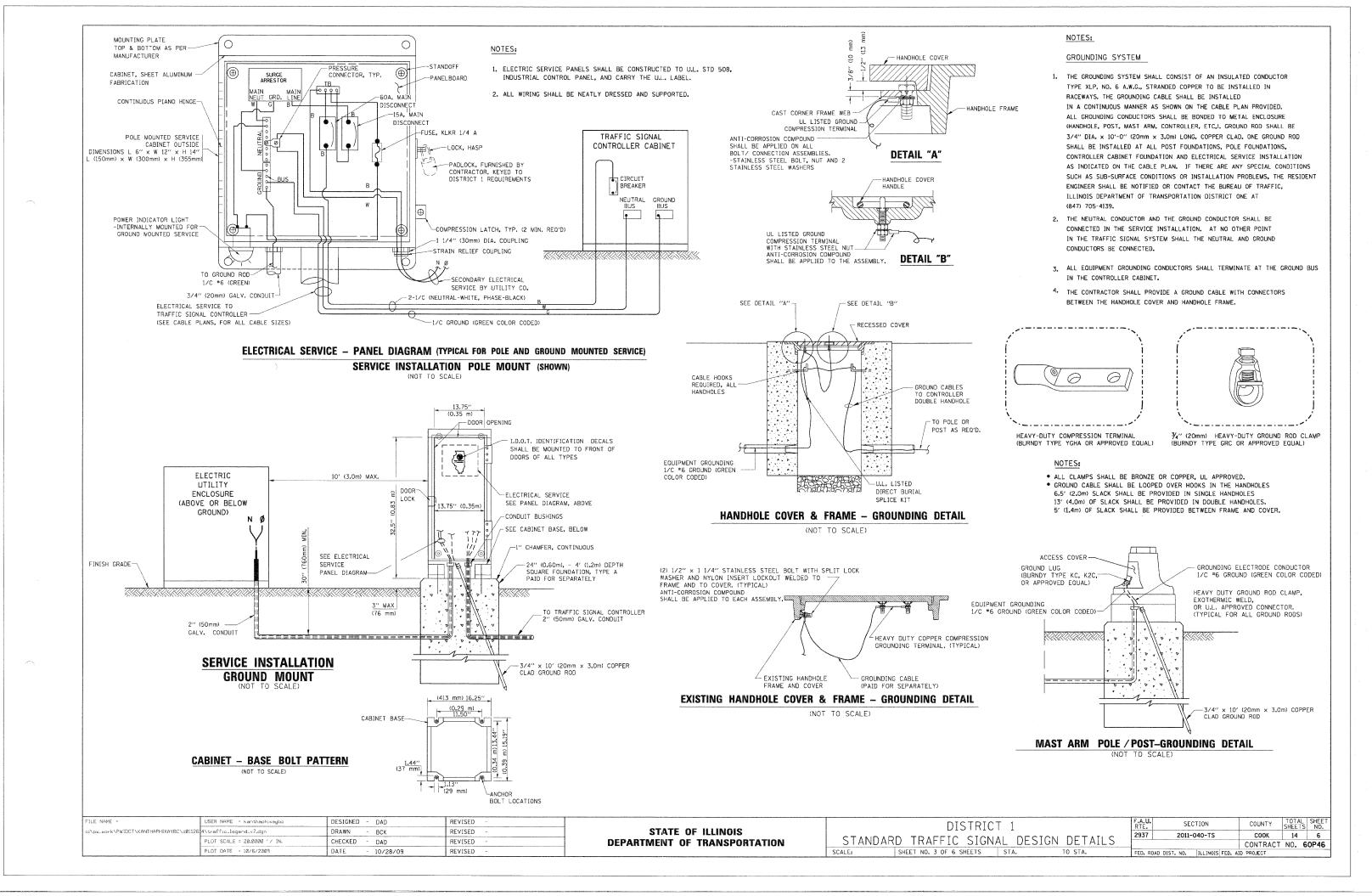
TRAFFIC SIGNAL EQUIPMENT OFFSET

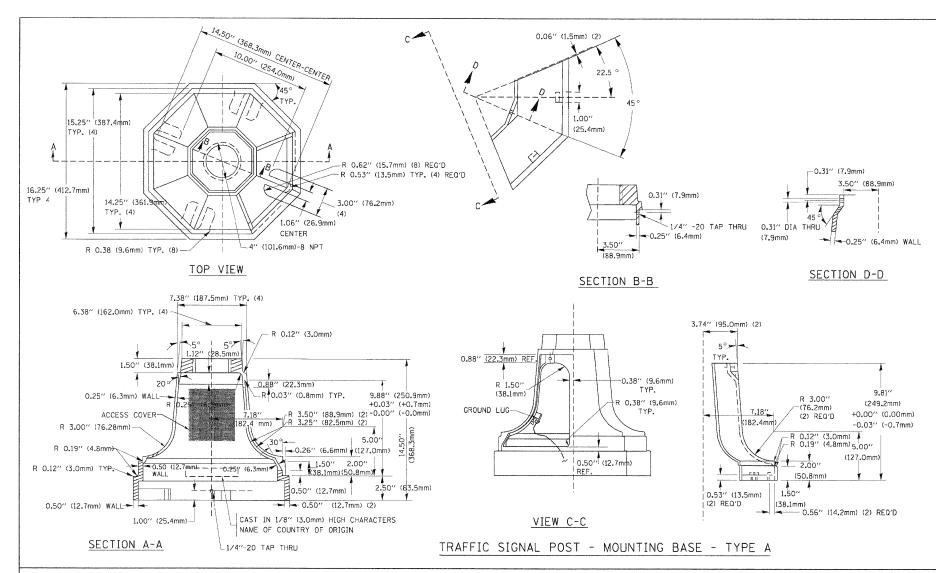
	THAT IC SIGNAL EQUIT WENT O	11 361
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER 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.

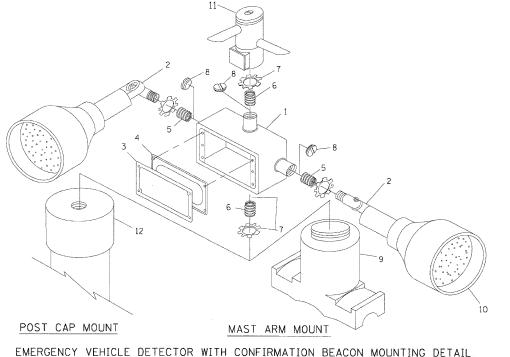
NOTES:

- 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 CHANGES 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.

FILE NAME = USER NAME = kanthaphixaybo	DESIGNED - DAG	REVISED -		DISTRICT 1	F.A.U. S	ECTION	COUNTY	TOTAL S	SHEET
c:\pw_work\PWIDCT\KANTHAPHIXAYBC\dØ1126 4\traffic_legend_v7.dgn	DRAWN - BCK	REVISED -	STATE OF ILLINOIS	DISTRICT	2937 2011	1-040-TS	COOK	14	5
PLOT SCALE = 20.0000 '/ IN.	CHECKED - DAD	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		, , , , , ,	CONTRACT	NO. 60)P46
PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -		SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.	FED BOAD DIST NO	THE TAIOUS FED.	ID PROJECT		







DESIGNED - DAG

CHECKED - DAD

BCK

10/28/09

DRAWN

DATE

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SER NAME = kanthaphixayb

LOT SCALE = 20,0000 '/ IN

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	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(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 ALUMINUM 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 1/4"(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.

R0.501 0.251 PORT 0.25"-0.23"(5mm) --- 0.31''(8mm) MATERIAL: -- 0.20"(5mm) ASTM A36 STEEL ASTM A-123 HOT DIPPED GALVANIZED HEIGHT WEIGHT VARIES 9.5"(241mm) 19"(483mm) (178mm) - 12" (300mm) 53 lbs (24kg)

A B C HEIGHT WEIGHT VARIES 9.5"(241mm) 19"(483mm) 7" (178mm) - 12" (300mm) 53 lbs (24kg) VARIES 10.75"(273mm) 21.5"(546mm) 7" (178mm) - 12" (300mm) 68 lbs (31 kg) VARIES 13.0"(330mm) 26"(660mm) 7" (178mm) - 12" (300mm) 81 lbs (37 kg) VARIES 18.5"(470mm) 37"(940mm) 7" (178mm) - 12" (300mm) 126 lbs (57 kg)

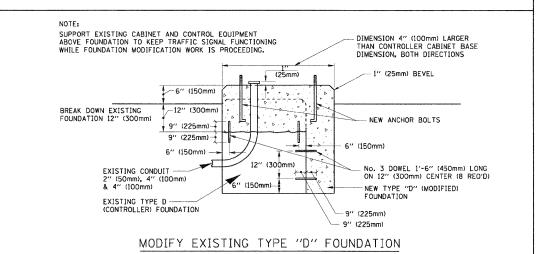
SHROUD

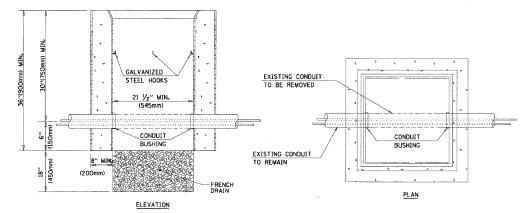
NOTES:

- 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.

R2.95" (75mm)

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

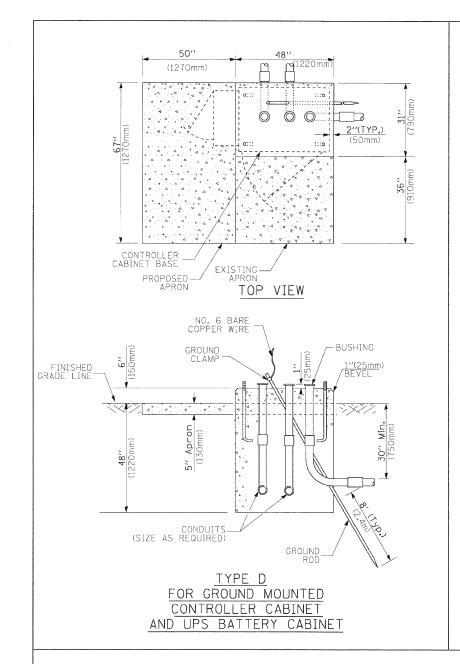
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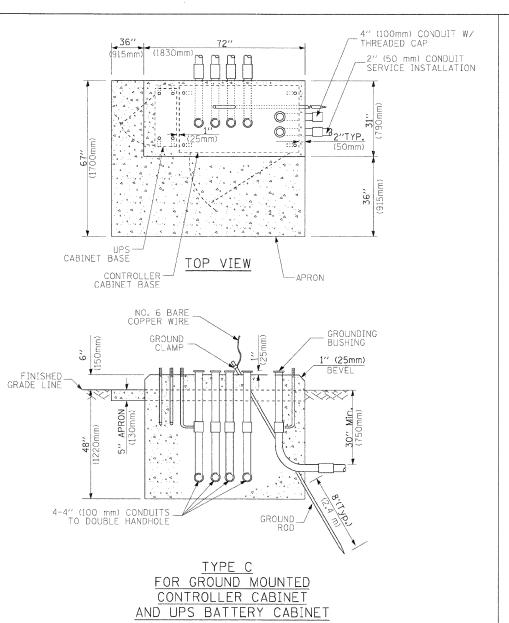
SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

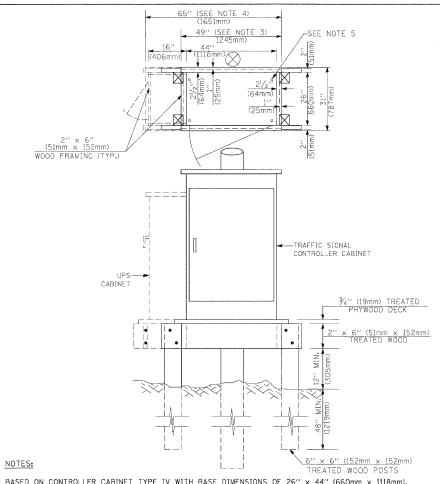
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 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. DRILLED 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
SIGNAL 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	1.6

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) BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	20.0+L	6.0+L
PEDESTRIAN PUSH BUTTON	13.0	4.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	6,0 13.5	2.0
SERVICE INSTALLATION POLE 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

DEPTH OF FOUNDATION

FOUNDATION

TYPE A - Signal Post TYPE C - CONTROLLER W/ UPS

TYPE D - CONTROLLER

SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE

Mdst Arm Length	Depth	Diameter	Diameter	Rebars	Rebars
Less than 30′ (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0'' (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50′ (15.2 m) and up to 55′ (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0'' (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

Foundation | Foundation | Spiral Quantity of Size of

NOTES:

4'-0" (1,2m)

4'-0" (1.2m)

4'-0" (1.2m)

4'-0" (1.2m)

- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 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 $36^{\prime\prime}$ (900 mm) diameter foundations.
- 3. 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

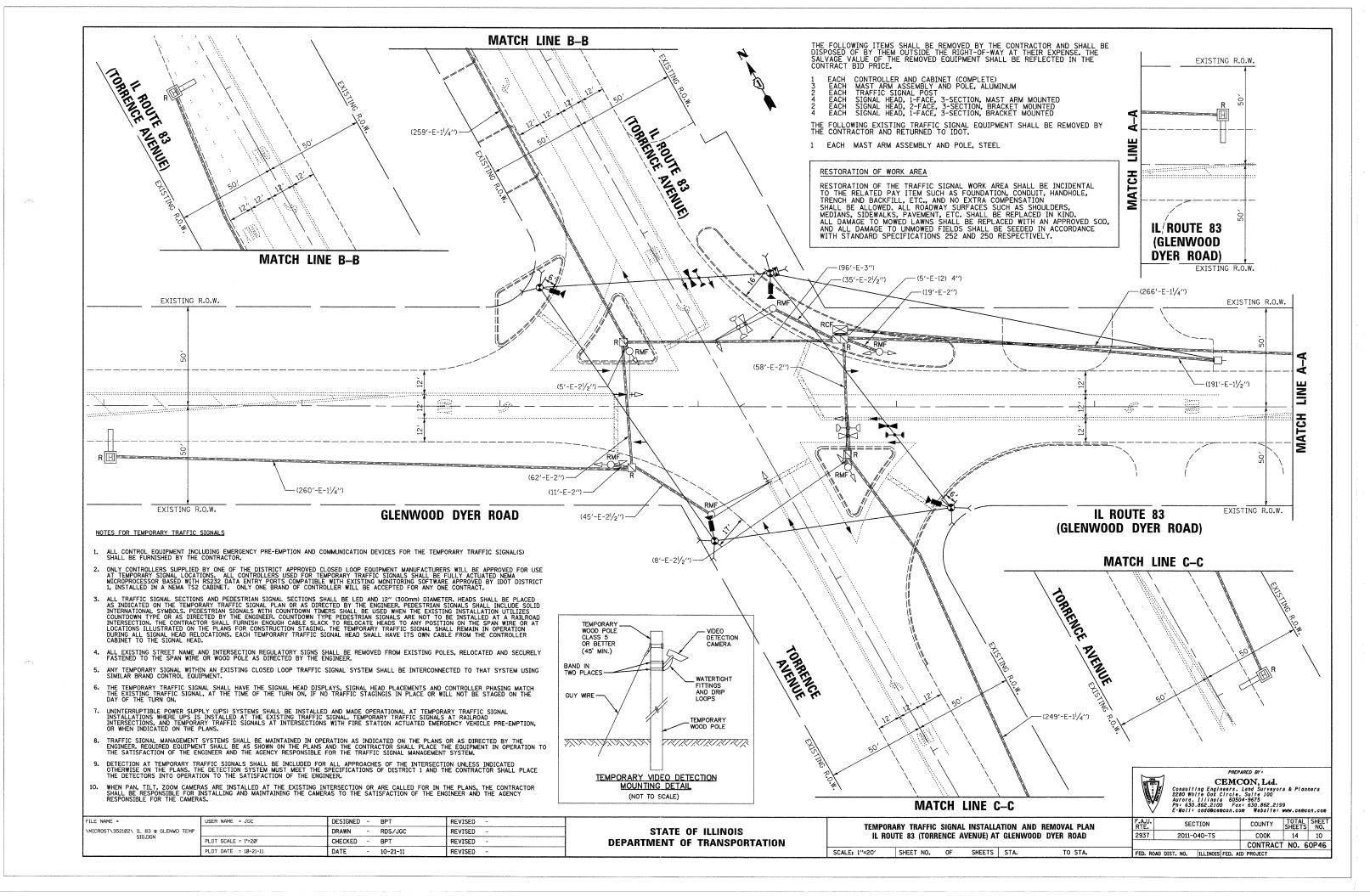
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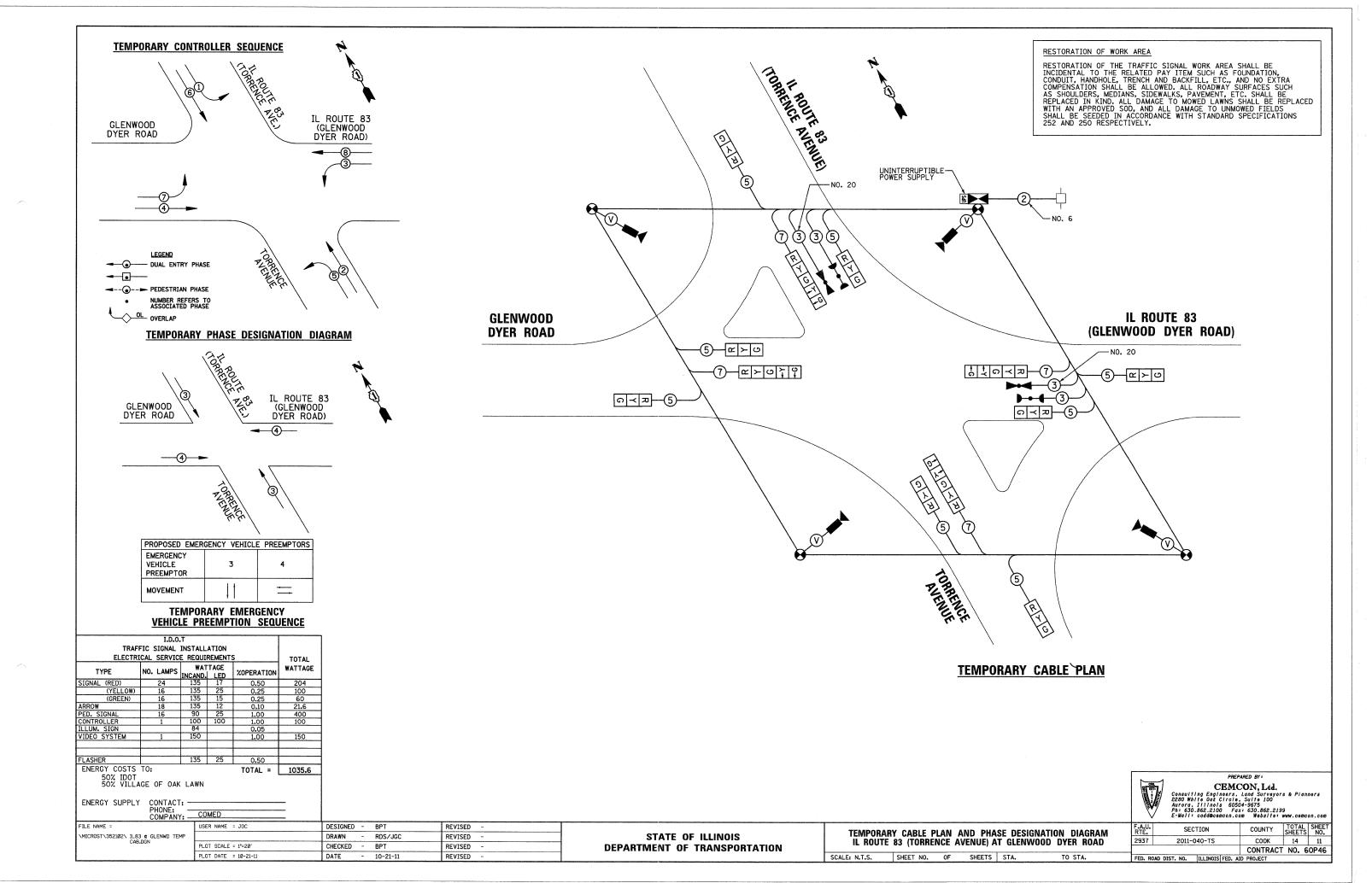
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

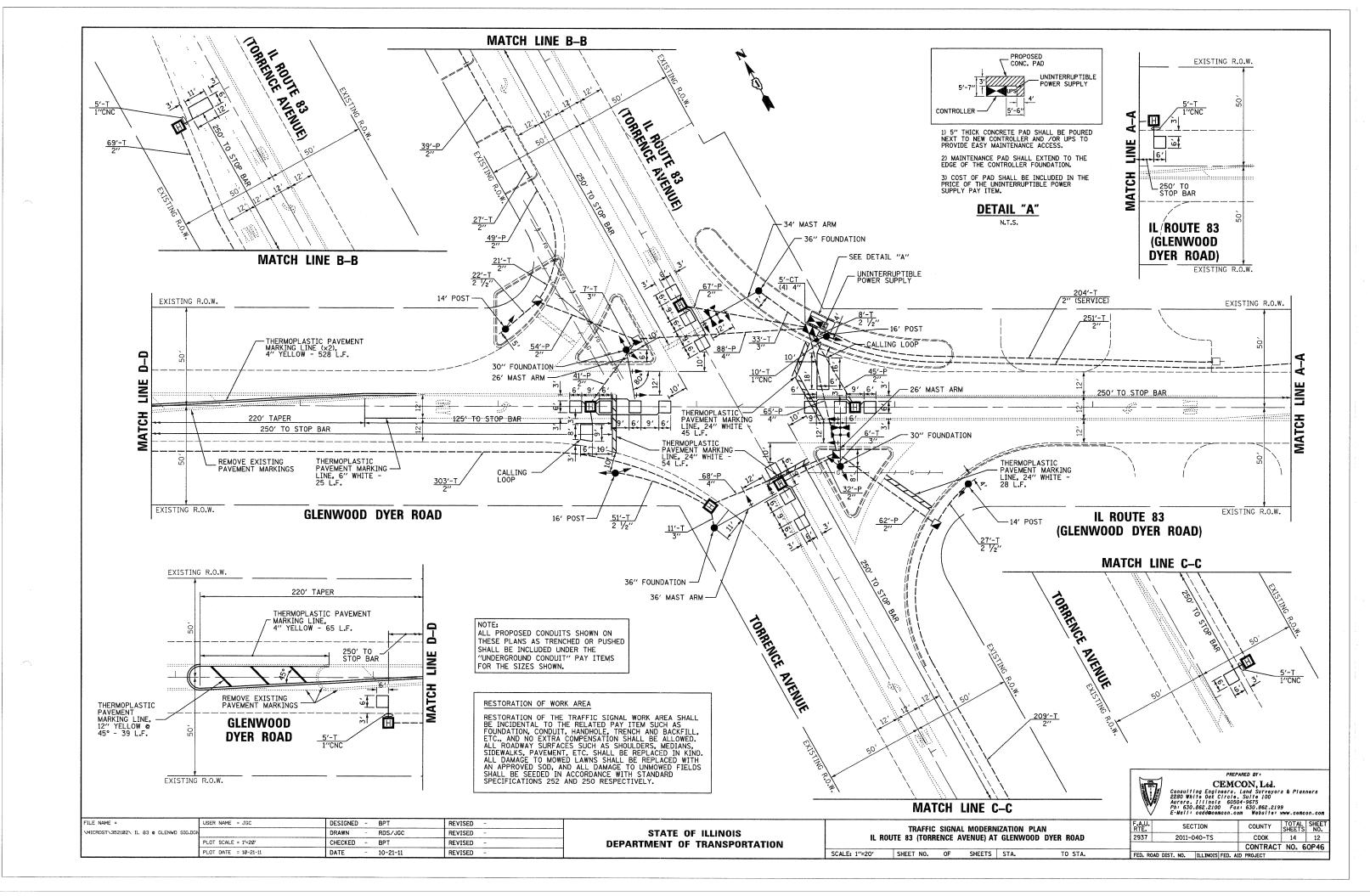
	DIST	RICT 1		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
STANDAF	D TRAFFIC S	SIGNAL DESIG	N DETAILS	2937	2011-040-TS	COOK	14	8
SCALE:	SHEET NO. 5 OF 6 SHEE	TS STA.	TO STA.	FED. ROA	AD DIST. NO. ILLINOIS FED.	CONTRACT	NO.	60P46

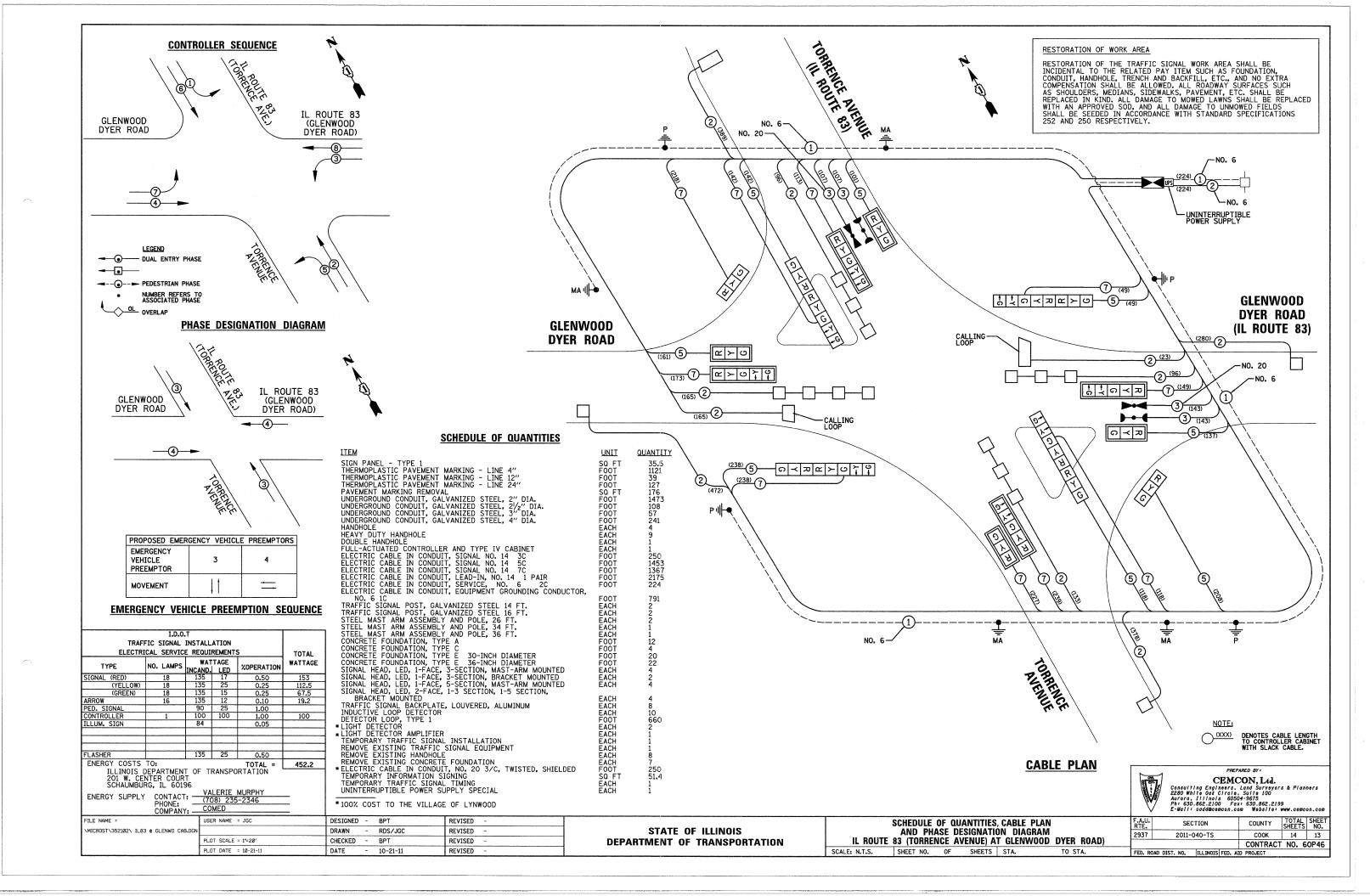
TRAFFIC SIGNAL LEGEND

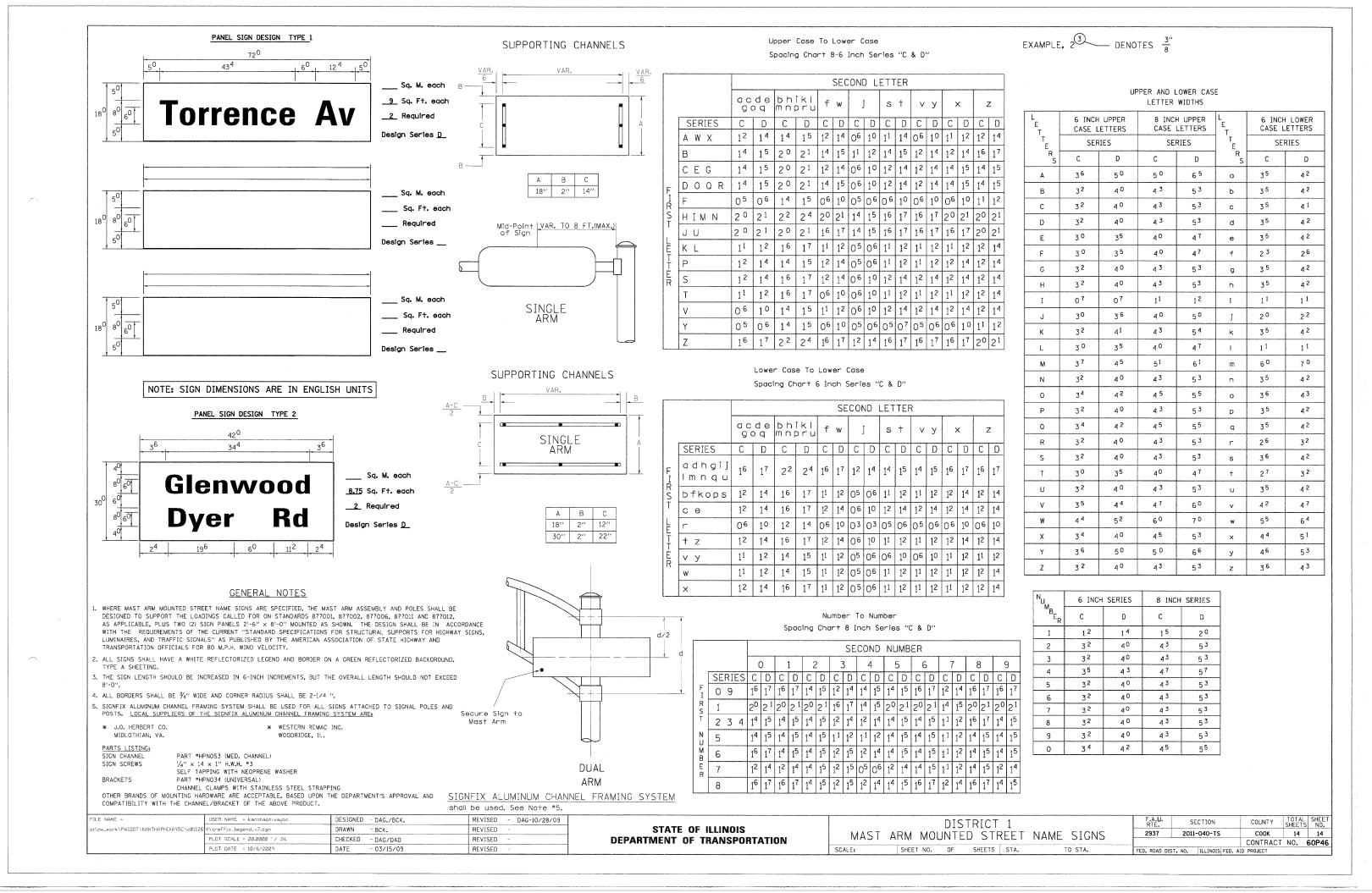
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R			EMERGENCY VEHICLE LIGHT DETECTOR	R≪	\otimes	•4	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET		n e		CONFIRMATION BEACON	Ro-0	0-0	•-4	NO. 14 17C, UNLESS NOTED STRERWISE			
COMMUNICATIONS CABINET	C C	ECC	CC	HANDHOLE	R 🖂			COAXIAL CABLE		- Ø-	<u> </u>
MASTER CONTROLLER		EMC	MC	HANDHOLE	_		Ba J			~	
MASTER MASTER CONTROLLER	R	EMMC	MMC	HEAVY DUTY HANDHOLE	(H)		H	VENDOR CABLE FOR CAMERA		_	
UNINTERRUPTIBLE POWER SUPPLY	UPS]	EUPS	UPS	DOUBLE HANDHOLE	K (SIS)			COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		<u>—</u> 6—	6
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-CR	- <u></u> -	- E	JUNCTION BOX GALVANIZED STEEL CONDUIT	R		•	FIBER OPTIC CABLE NO. 62,5/125, MM12F		—(12F)—	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	P	IN TRENCH (T) OR PUSHED (P) TEMPORARY SPAN WIRE, TETHER WIRE,	D	Manufactured Conference of the		FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		— <u>24</u> F—	24F)
STEEL MAST ARM ASSEMBLY AND POLE	R		•	AND CABLE						<i>y</i> -	
ALUMINUM MAST ARM ASSEMBLY AND POLE	R			COMMON TRENCH			СТ	FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE		-	-0-
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R _{O-X}	O-X	• ×	COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC	NOTED ON PLANS)		,	
	R			SYSTEM ITEM		S	S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		C _{II}	c <mark>i∥—•</mark>
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	PīZI	PTZ	PIZM	INTERSECTION ITEM		I	IΡ	OR (S) SERVICE		"!	"
SIGNAL POST	R	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	\otimes	•	RELOCATE ITEM	RL				RMF		
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	R	>	>-	ABANDON ITEM 12" (300mm) TRAFFIC SIGNAL SECTION	А	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	O-MMF		
SIGNAL HEAD	R	>	→	12 (SOCIETY TRAINE STORAGE SECTION		CS-SI	IX.	ALUMINUM MAST ARM POLE AND	RMF		
SIGNAL HEAD CONSTRUCTION STAGES		-12	2	12" (300mm) RED WITH 8" (200mm)		(R)		FOUNDATION TO BE REMOVED			
(NUMBERS INDICATE THE CONSTRUCTION STAGE)				YELLOW AND GREEN TRAFFIC SIGNAL FACE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+DR	+>	+			(R)	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R →[>_′′P′′	— <u></u>	-▶ "P"	SIGNAL FACE		© 4 Y	G 4 Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R ○-▷-′F′′	O-t>"F"	● —"F"			4 G	◆ G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		[IS]	IS
PEDESTRIAN SIGNAL HEAD	R -	-0	-8			R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	(6)	•	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			G 4Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	0R	[P]	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R	@APS	APS O O O O O O O O O O O O O			↓ G	4 G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR		ÎPPÎ	
ILLUMINATED SIGN "NO LEFT TURN"	R	8	9				"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECT	0R		
ILLUMINATED SIGN	D			12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		ÓW) W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
"NO RIGHT TURN"	8	8	®	12" (300mm) PEDESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		ÎPSÎ	PS
DETECTOR LOOP, TYPE I				INTERNATIONAL SYMBOL, OUTLINED			-			♦ —— ♦	g
PREFORMED DETECTOR LOOP			Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID		(*	RAILROAD	SYMBO	LS	
MICROWAVE VEHICLE SENSOR	R [M]	[M]	M	PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		(C) C) (S) D	₽ C ★ D			<u>EXISTING</u>	PROPOSED_
VIDEO DETECTION CAMERA	R [V]⊅	(V)	\bigcirc	RADIO INTERCONNECT	##*O	 + 0		RAILROAD CONTROL CABINET			<u></u>
VIDEO DETECTION ZONE						**		RAILROAD CANTILEVER MAST ARM	×	(OX X X	X OX X
	R			RADIO REPEATER	RERR	ERR	RR	FLASHING SIGNAL		Zo X	X · X
PAN, TILT, ZOOM CAMERA	PIZD	PIZ	PIZ	DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE,		<u>—(5)—</u>					
WIRELESS DETECTOR SENSOR	RW	W	W	ALL DETECTOR LOOP CABLE TO BE SHIELDED)		CROSSING GATE		X0 X >	X DECRE
WIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		(1)	(1)	CROSSBUCK		*	*
FILE NAME = USER NAME = kanthaphixa; cr\pw_work\^2wIDOT\KANTHAPHIXAYBC\d01126 4\traffic.legend_v7.dgn	ybc	DESIGNED - DAG/BCK DRAWN - BCK	REVISED -	CTATE	OF ILLINOI	c		DISTRICT 1	F.A.U. RTE.	SECTION	COUNTY TOTAL SHEET NO.
PLOT SCALE = 20.0000 '/		CHECKED - DAD	REVISED -	DEPARTMENT				STANDARD TRAFFIC SIGNAL DESIGN DETAIL	S 2937	2011-040-TS	COOK 14 9 CONTRACT NO. 60P46
PLOT DATE = 10/6/2009		DATE - 10/28/09	REVISED -				SCALE: NO	NE SHEET NO. 6 OF 6 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. ILLINOIS FEE	

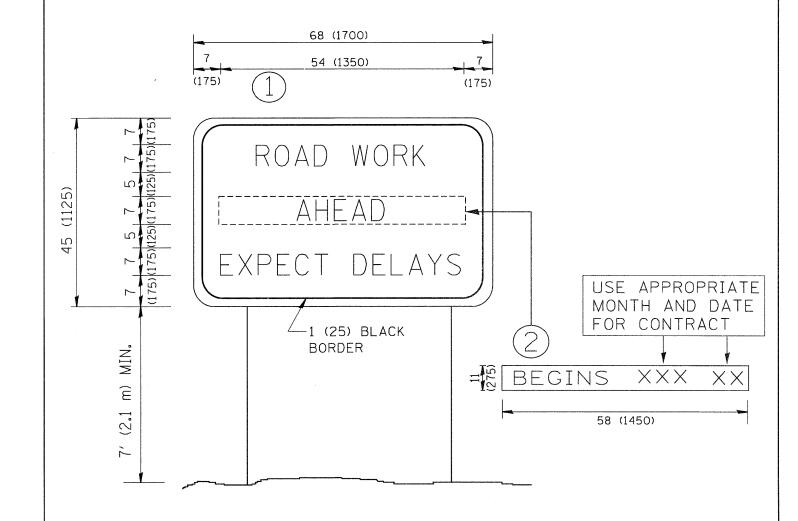












NOTES:

- 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		ARTERIAL ROAD			F.A.U.	SECTION	COUNTY	TOTAL	SHEET	
Wi\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS					2937	2011-040-75	COOK	14	14A
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFOF	NFORMATION SIGN		1-1-1-	TC-22	CONTRAC	T NO.	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07	SC	SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA. TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.			