FOR INDEX OF SHEETS – SEE SHEET NO. 2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	1
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			

D-91-488-12

STATE OF ILLINOIS 09-21-12 LETTING ITEM 015
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

DISTRICT 1

FAP876/FAP 353 U.S. 30 (LINCOLN HWY)
IL 1 (CHICAGO RD) TO STATE STREET
TRAFFIC SIGNAL TIMING / PROGRESSION
SECTION: 2012-038TS
PROJECT: CMF-0005(905)
COOK COUNTY
C-91-488-12

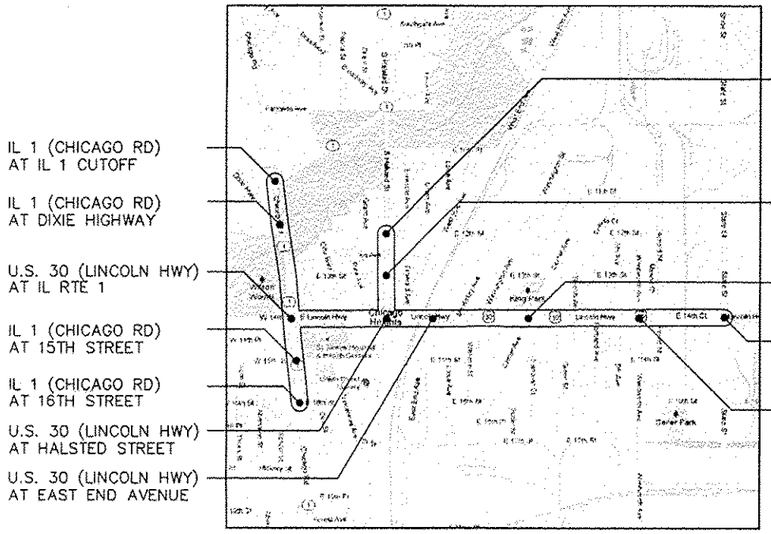
DESIGN DESIGNATIONS

U.S. RTE 30 (LINCOLN HWY) – OTHER PRINCIPAL ARTERIAL
2011 ADT: 16,300
POSTED SPEED LIMIT: 35 MPH

IL RTE 1 (CHICAGO RD) – OTHER PRINCIPAL ARTERIAL
2009 ADT: 22,200
POSTED SPEED LIMIT: 30-35 MPH

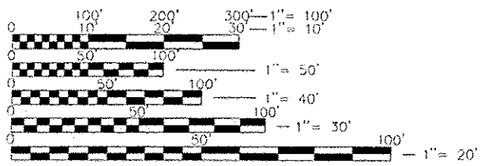
HALSTED ST – MAJOR COLLECTOR
2011 ADT: 11,000
POSTED SPEED LIMIT: 35 MPH

LOCATION MAP
(NOT TO SCALE)



LOCATION OF SECTION INDICATED THUS: ▬

PROJECT IS LOCATED IN THE CITY OF CHICAGO HEIGHTS



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 BELOW SCALES MAY BE USED.

JULIE
811
Know what's below. Call before you dig.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE.

NOTE:
THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY.

CONTRACT NO: 60T86

KEVIN L. BELGRAVE
062-051750
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

EXPIRES: 11/30/2013

SIGNED: Kevin L. Belgrave
Kevin L. Belgrave
DATE: 6/28/2012

GEWALT HAMILTON ASSOCIATES, INC.
850 Forest Edge Drive * Vernon Hills, IL 60061
Consulting Engineers & Surveyors
847.478.9700
FAX 847.478.9701

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: June 29, 2012
John Fortmann
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 17, 2012
John D. Baranzelli, P.E. for
ENGINEER OF DESIGN AND ENVIRONMENT

August 17, 2012
William R. Frey for
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Rev.

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

DISTRICT 1 - TRAFFIC OPERATIONS - SUDAD MAHMOUD (847)705-4420

INDEX OF SHEETS

GENERAL NOTES

THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2012: MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION; PROJECT SPECIFICATIONS; ALL APPLICABLE REQUIREMENTS OF THE CITY OF CHICAGO HEIGHTS; ALL APPLICABLE REQUIREMENTS OF THE ORDINANCES OF AUTHORITIES HAVING JURISDICTION; AND ALL ADDENDA THERETO SHALL GOVERN THIS WORK.

THE STANDARD SPECIFICATIONS, PROJECT SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED A PART OF THE CONTRACT.

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OF UNSTABLE MATERIALS CREATED AS A RESULT THEREOF.

THE CONTRACTOR SHALL SOLEY BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

EXISTING UTILITIES: WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES, SUCH INFORMATION REPRESENTS ONLY THE OPINION OF THE ENGINEER AS TO THE LOCATION OF SUCH UTILITIES AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER IN RESPECT TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS RELATIVE TO THE LOCATION OF UNDERGROUND UTILITY FACILITIES OR THE MANNER IN WHICH THEY ARE TO BE REMOVED OR ADJUSTED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES. THE CONTRACTOR SHALL ALSO CONTACT J.U.L.I.E. TO OBTAIN LOCATES OF THE RESPECTIVE UTILITY COMPANIES UNDERGROUND FACILITIES.

CONTRACTOR IS RESPONSIBLE FOR CONTACTING J.U.L.I.E. AT 1-800-892-0123 AND MUST ACQUIRE A DIG NUMBER A MINIMUM OF 72 HOURS PRIOR TO ANY WORK BEING DONE

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD IN ACCORDANCE TO STANDARD SPECIFICATIONS ARTICLE 252 WHICH SHALL INCLUDE THE REQUIRED WATERING PER ARTICLE 252.08. ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS ARTICLE 250 AND 251, RESPECTIVELY.

THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 72 HOURS IN ADVANCE OF BEGINNING WORK.

IDOT STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, & PATTERNS
001006	DECIMAL OF AN INCH OF A FOOT
701001-02	OFF-RD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-RD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701606-08	URBAN LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
814001-02	HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
886001-01	DETECTOR LOOP INSTALLATIONS

Rev.

GHA #4085.883

FILE NAME = 4085.883-011.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES, & HIGHWAY STANDARDS

SCALE N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	2
		CONTRACT #: 60T86		
	ILLINOIS FED. AID PROJECT			

				FAP 353	FAP 876		FAP 353							
				URBAN										
				LOCATION OF WORK	U.S. RTE 30 (LINCOLN HWY) AT IL RTE 1 (DIXIE HWY-CHICAGO RD)	IL RTE 1 (CHICAGO RD) AT DIXIE HIGHWAY	IL 1 (CHICAGO RD) AT IL 1 CUTOFF	U.S. 30 (LINCOLN HWY) AT HALSTED STREET	HALSTED STREET AT 13TH STREET	HALSTED STREET AT 12TH STREET	U.S. 30 (LINCOLN HWY) AT EAST END AVENUE	U.S. 30 (LINCOLN HWY) AT CENTER AVENUE	U.S. 30 (LINCOLN HWY) AT WENTWORTH AVENUE	U.S. 30 (LINCOLN HWY) AT STATE STREET	INTERCONNECT
				FUNDING BREAKDOWNS	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
					TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	INTERCONNECT
				TYPE	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
CODE NO.	ITEM	UNIT	TOTAL		URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5.00		0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	4.00
67100100	MOBILIZATION	L SUM	1.00		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1.00		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.00		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.00		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.00		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.50
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	6,939				240			519					6,180
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	110												110
81300720	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 8"	EACH	2												2
81400100	HANDHOLE	EACH	15				1			2					12
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	10	1	1	1	1	1	1	1	1	1	1		
86400100	TRANSCEIVER - FIBER OPTIC	EACH	9		1	1	1	1	1	1	1	1	1		
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	11,464												11,464
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	4,170				1,209			1,424		721		816	

CHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 1 OF 2)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - ZCW	REVISED -			353	2012-038TS	COOK	13	3
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -					CONTRACT #: 60T86		
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

				FAP 353	FAP 876		FAP 353							
		URBAN LOCATION OF WORK		U.S. RTE 30 (LINCOLN HWY) AT IL RTE 1 (DIXIE HWY-CHICAGO RD)	IL RTE 1 (CHICAGO RD) AT DIXIE HIGHWAY	IL 1 (CHICAGO RD) AT IL 1 CUTOFF	U.S. 30 (LINCOLN HWY) AT HALSTED STREET	HALSTED STREET AT 13TH STREET	HALSTED STREET AT 12TH STREET	U.S. 30 (LINCOLN HWY) AT EAST END AVENUE	U.S. 30 (LINCOLN HWY) AT CENTER AVENUE	U.S. 30 (LINCOLN HWY) AT WENTWORTH AVENUE	U.S. 30 (LINCOLN HWY) AT STATE STREET	INTERCONNECT
		FUNDING BREAKDOWNS		80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS	INTERCONNECT
		TYPE		0021	0021	0021	0021	0021	0021	0021	0021	0021	0021	0021
CODE NO.	ITEM	UNIT	TOTAL	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN
87900200	DRILL EXISTING HANDHOLE	EACH	13			1			2					10
88500100	INDUCTIVE LOOP DETECTOR	EACH	20			8		2	6		2		2	
88600100	DETECTOR LOOP, TYPE I	FOOT	193			66			127					
89502200	MODIFY EXISTING CONTROLLER	EACH	7	1	1		1			1	1	1	1	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	3			1		1	1					
X8570226	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	3			1		1	1					
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	12,042											12,042
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.20											154.20
Z0033056	OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1											1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1											1

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES (SHEET 2 OF 2)
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	13	4
		CONTRACT #: 60T86		
	ILLINOIS FED. AID 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.

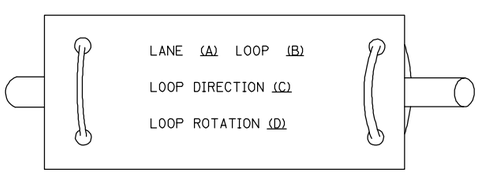
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

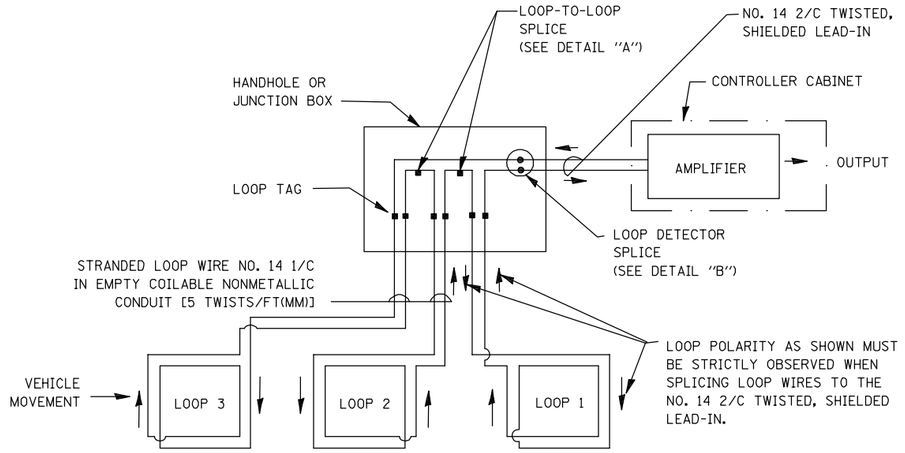


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

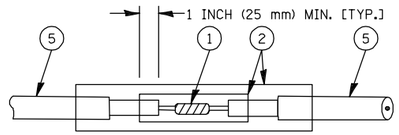
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

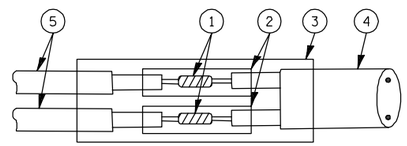


DETECTOR LOOP WIRING SCHEMATIC

- 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.

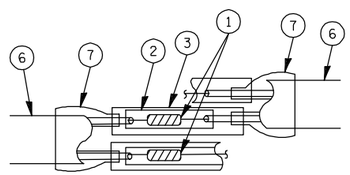


DETAIL "A"
LOOP-TO-LOOP SPLICE

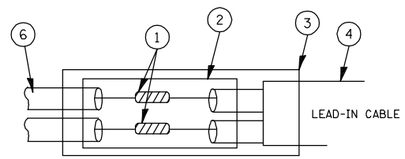


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

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.

(6) PRE-FORMED LOOP

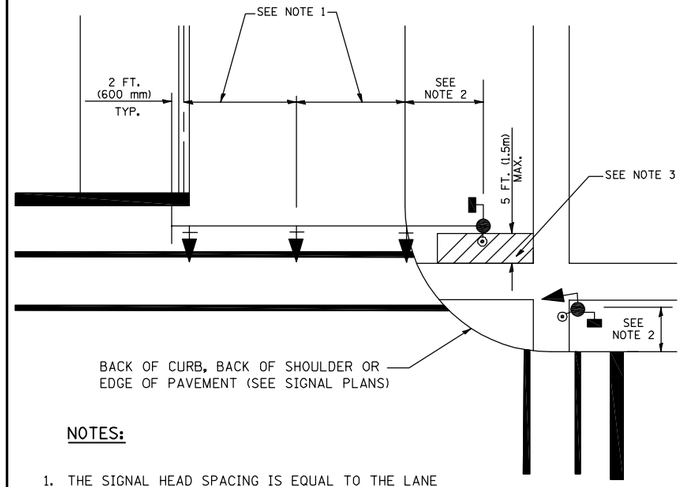
(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN - BCK	REVISED -					353	2012-038TS	COOK	43 / 5
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -						TS-05	CONTRACT #:	60T86
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT	

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

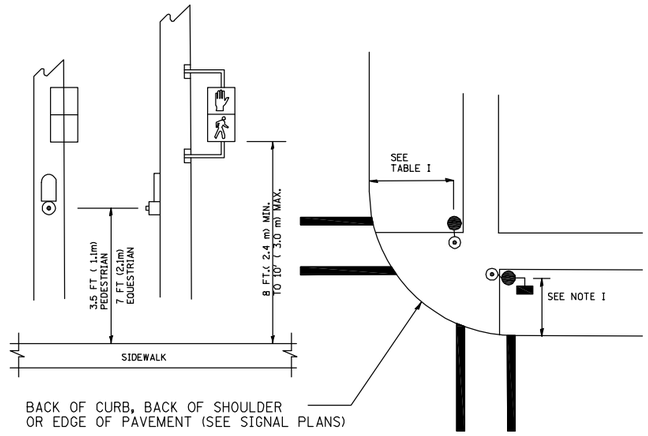
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. 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."

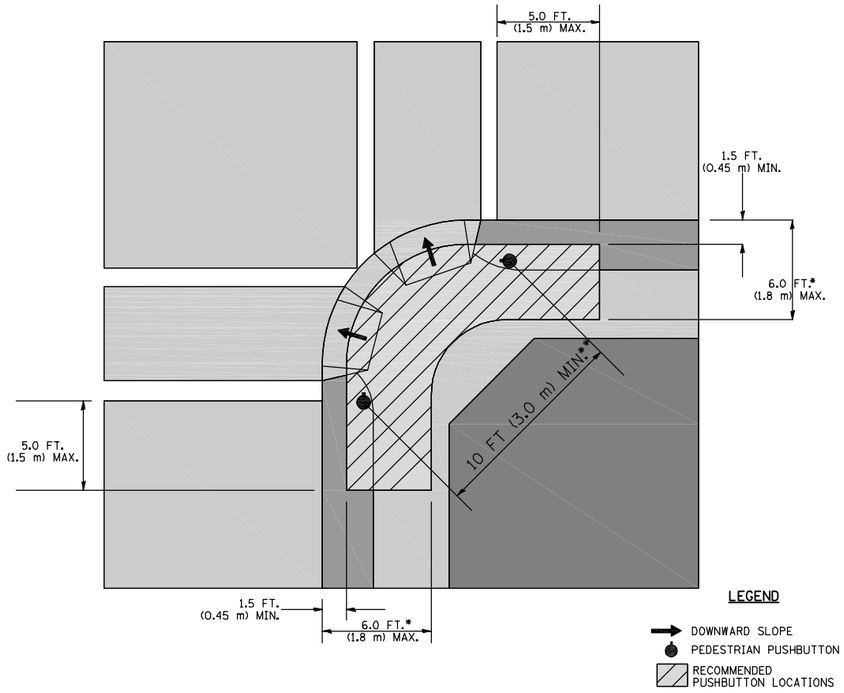
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

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."

RECOMMENDED PUSHBUTTON LOCATIONS



* 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.

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.

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.

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.

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

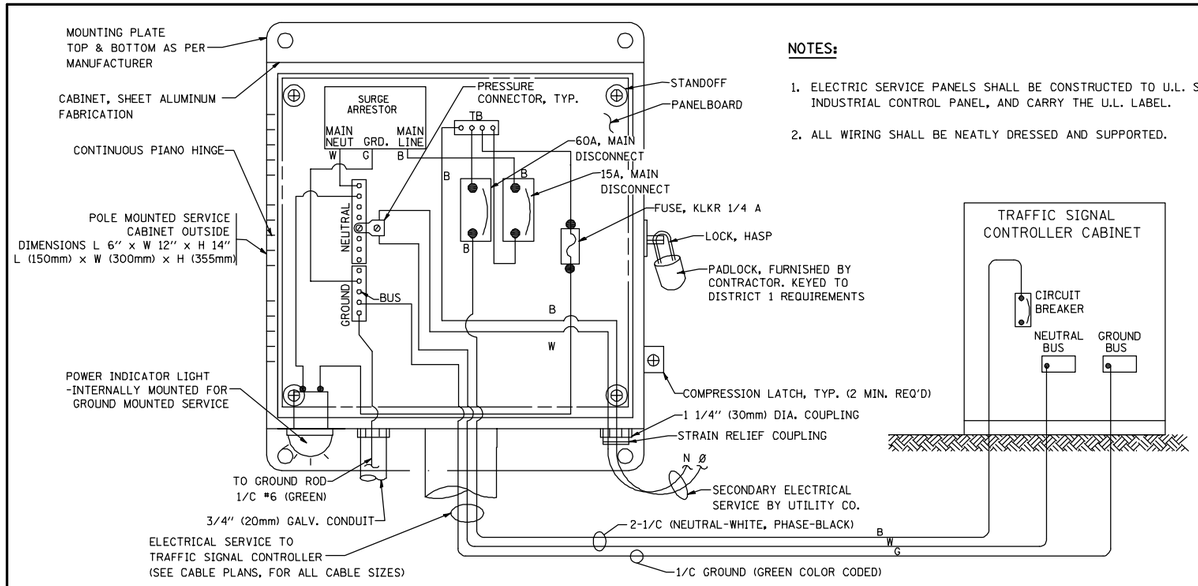
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 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.

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -					353	2012-038TS	COOK	43	6
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -						TS-05	CONTRACT #:	60T86	
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 2 OF 6 SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	



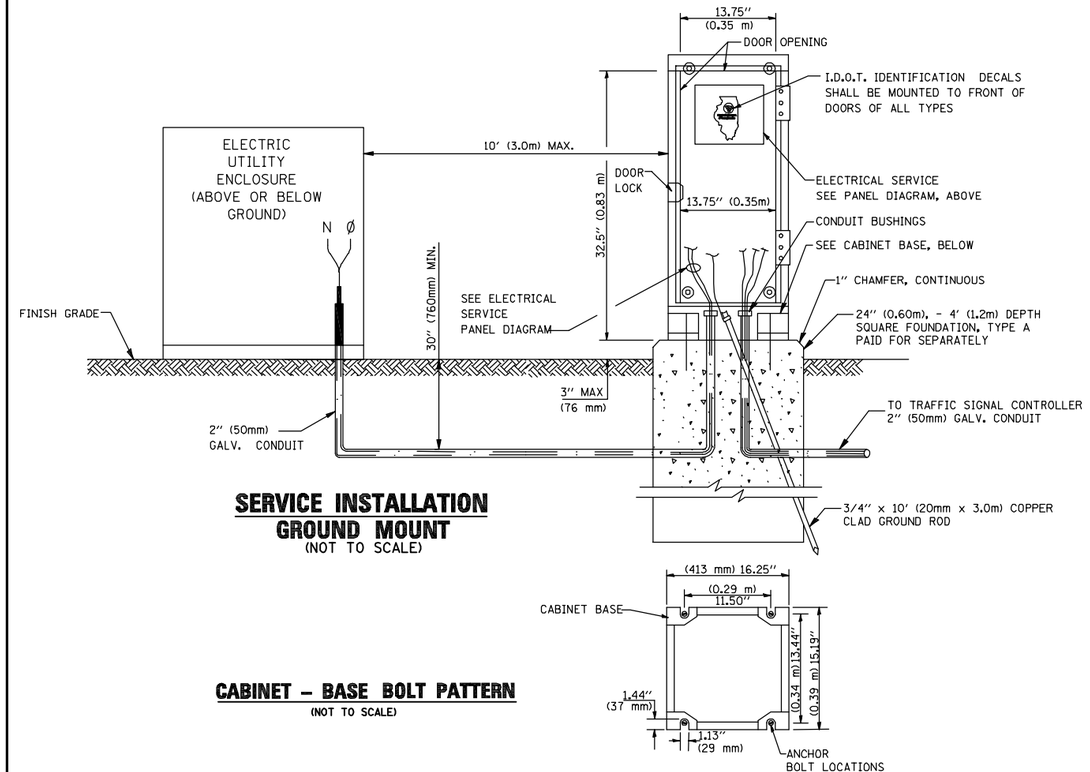
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

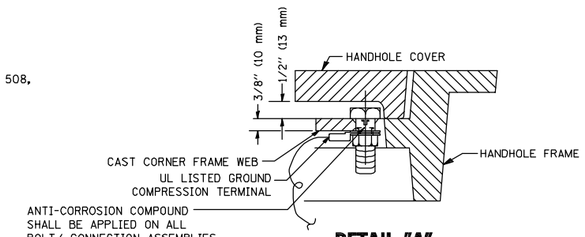


SERVICE INSTALLATION GROUND MOUNT

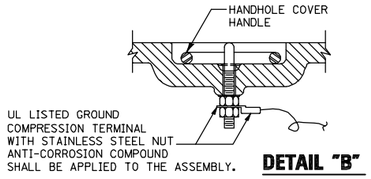
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

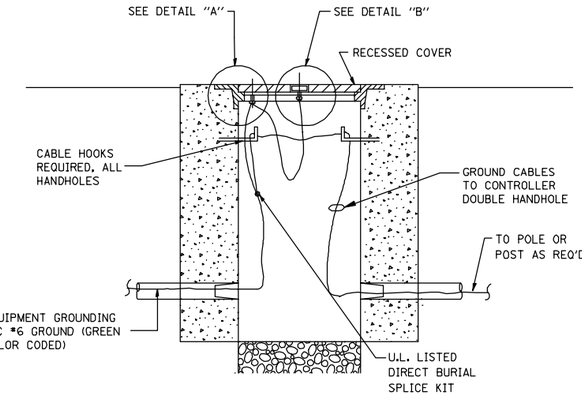
(NOT TO SCALE)



DETAIL "A"

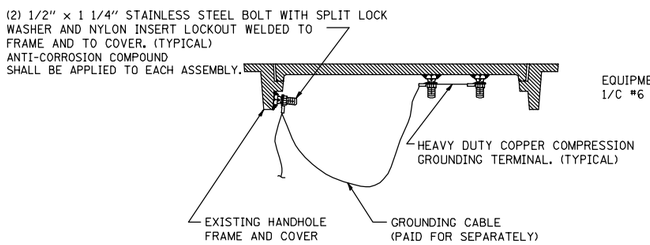


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



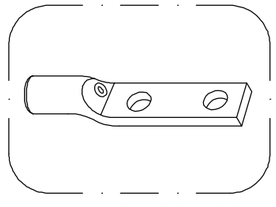
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

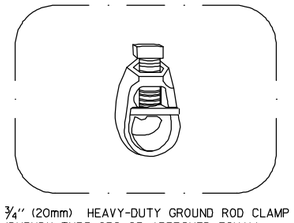
NOTES:

GROUNDING SYSTEM

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



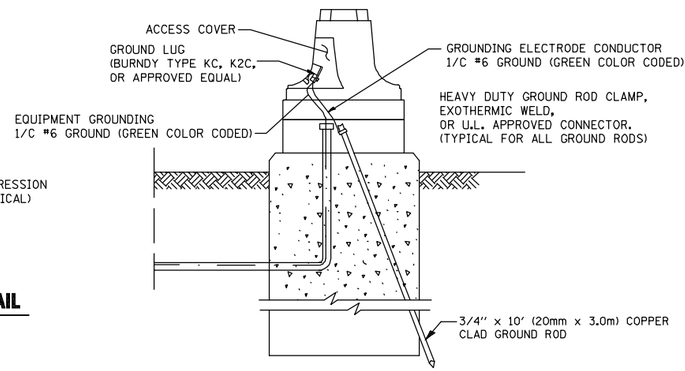
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

NOTES:

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

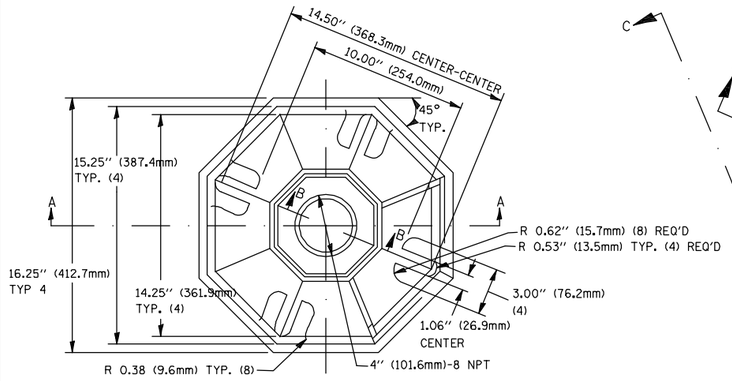


MAST ARM POLE / POST–GROUNDING DETAIL

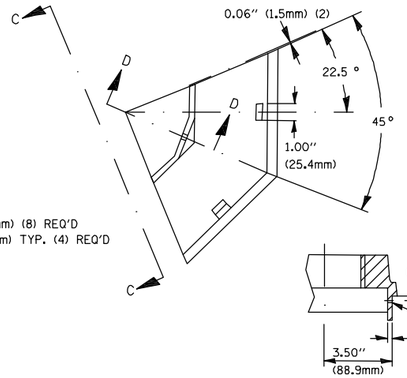
(NOT TO SCALE)

GHA #4085.883

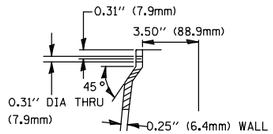
FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BCK	REVISED -					353	2012-038TS	COOK	43	7
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -						TS-05	CONTRACT #:	60T86	
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	



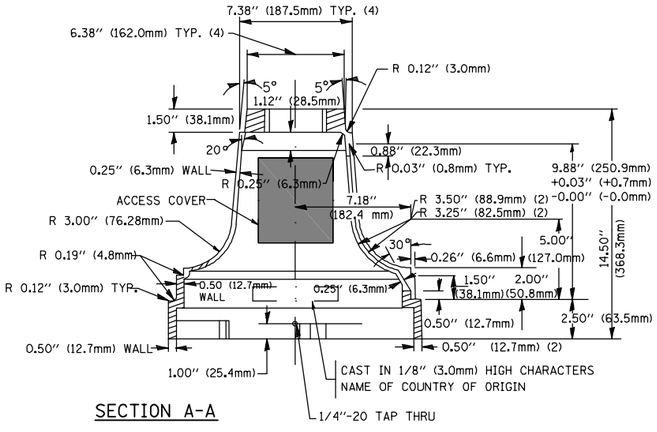
TOP VIEW



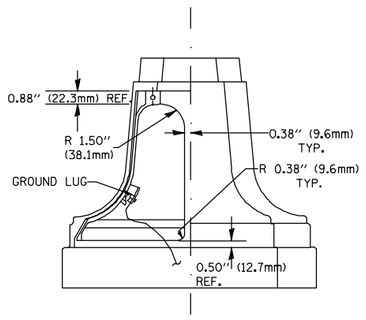
SECTION B-B



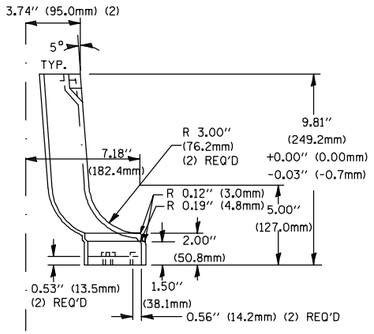
SECTION D-D



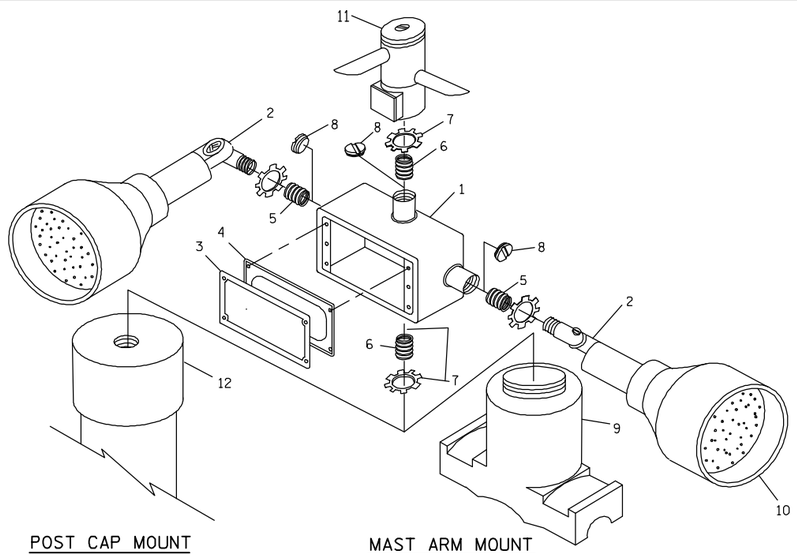
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



POST CAP MOUNT

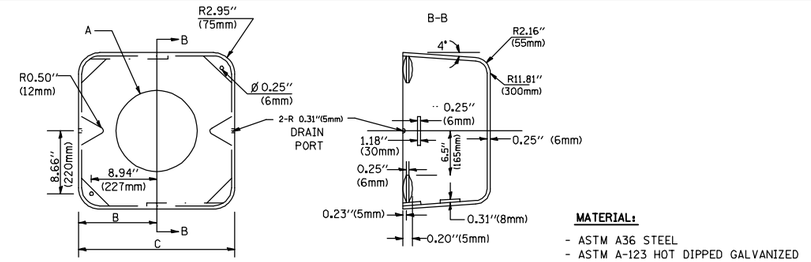
MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

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:

1. 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-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 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.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

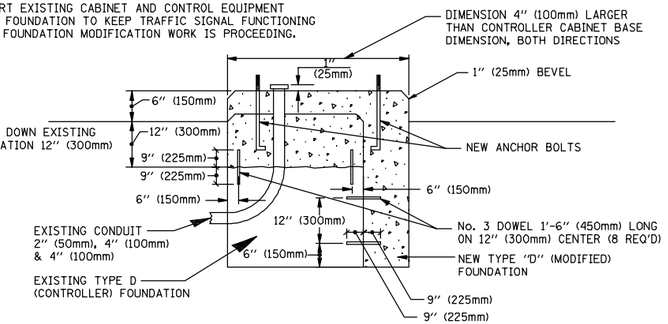
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57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

SHROUD

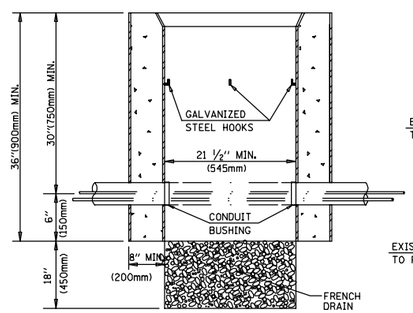
NOTES:

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

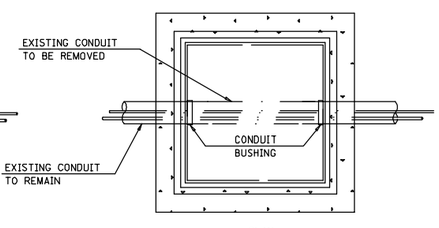
NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



ELEVATION



PLAN

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

GHA #4085.883

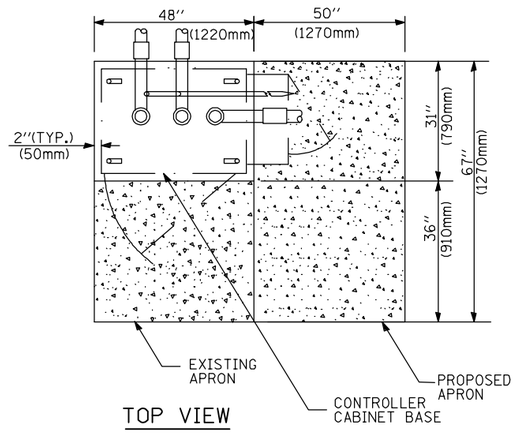
FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -
		DRAWN - BCK	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

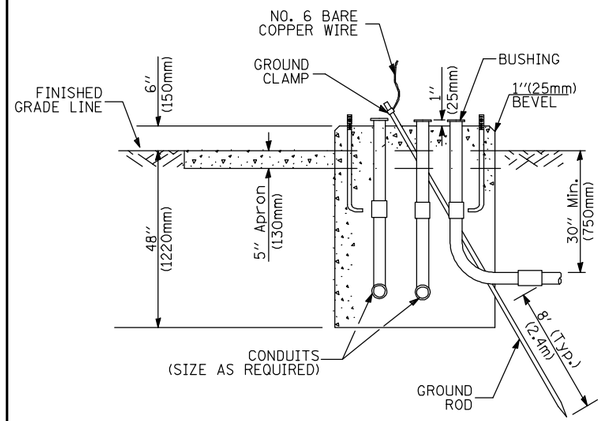
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

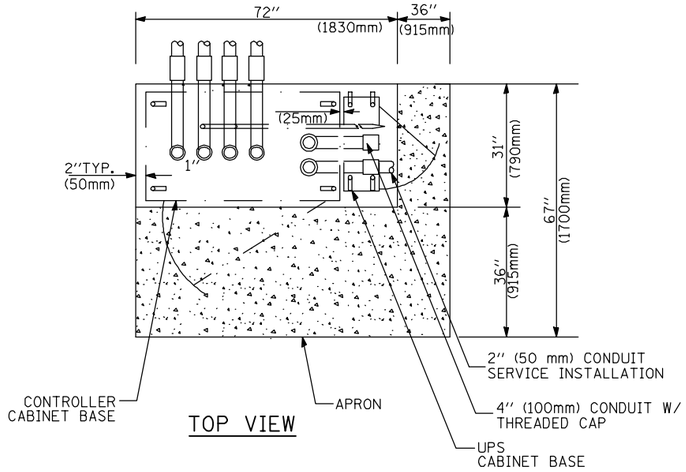
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	8
	TS-05	CONTRACT #: 60T86		
		ILLINOIS FED. AID PROJECT		



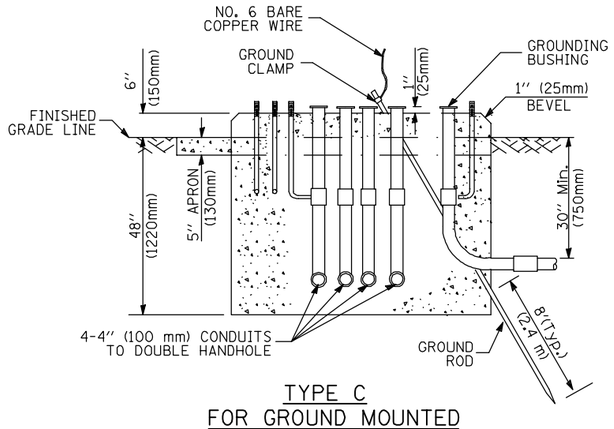
TOP VIEW



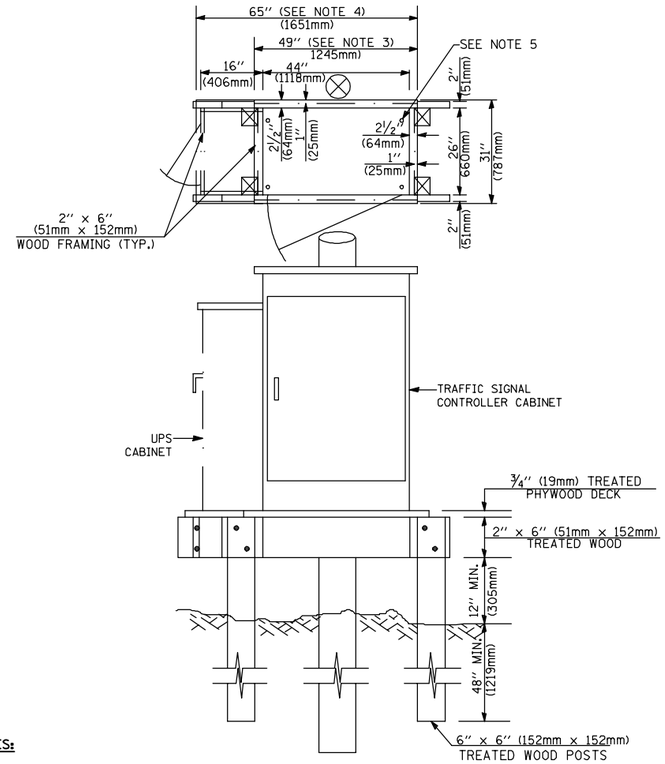
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. 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)	20.0+L	6.0+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 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

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0'' (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0'' (1.2m)
TYPE D - CONTROLLER	4'-0'' (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0'' (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6'' (4.1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
	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)

NOTES:

1. 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'' (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

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
		DRAWN - BCK	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -		SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	9
	TS-05	CONTRACT #:	60T86	
		ILLINOIS | FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET			
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G Y G	R Y G Y G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G Y G "P"	R Y G Y G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		I	I
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - DAD/BCK	REVISED -	
		DRAWN - BCK	REVISED -	
	PLOT SCALE = 1" = .0833'	CHECKED - DAD	REVISED -	
	PLOT DATE = 6/28/2012	DATE - 10-28-09	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	10
	TS-05	CONTRACT #: 60T86		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

SCHOOL

16TH STREET

EXIST. R.O.W.

50′

15′ 15′

19+950

ALL EXISTING AUDIBLE PUSH BUTTON SHALL REMAIN. (TYP.)

RESTAURANT

MCELDOWNEY

IL. RTE. 1 (CHICAGO RD.)

(6′-E-2½")

(42′-E-3")

34′ M.A.

(45′-E-4")

(264′-E-2")

EXIST. R.O.W.

10′ (TYP.)

10′

10′

10′

10′

22′ M.A.

23+600

23+650

23+700

33′

33′

ONLY

EXIST. INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

20+000

24′ M.A.

EXIST. R.O.W.

(252′-E-2")

(40′-E-3")

(10′-E-2½")

(82′-E-4")

30′ M.A.

(46′-E-4")

(6′-E-2½")

UPS (SEE DETAIL "A")

EX. INTERCONNECT TO 15TH STREET

EXIST. R.O.W.

CITY HALL

22′ 22′

33′ 33′

EXIST. R.O.W.

EXIST. R.O.W.

20+050

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

GHA #4085.883

FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

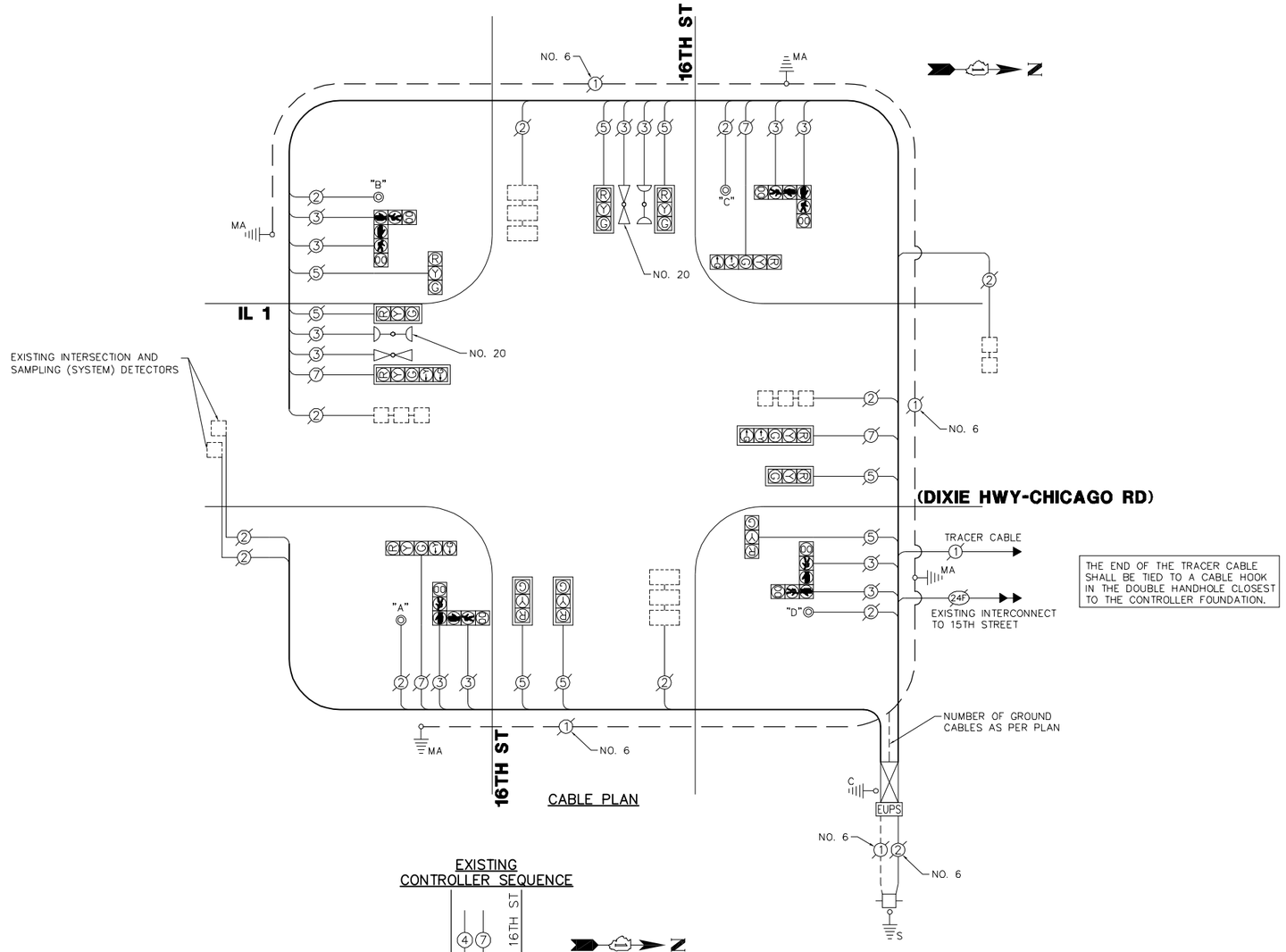
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
IL 1 (DIXIE HWY-CHICAGO RD) AT 16TH STREET
(FOR INFORMATION ONLY)

SCALE 1"=20′ | SHEET NO. OF SHEETS | STA. | TO STA.

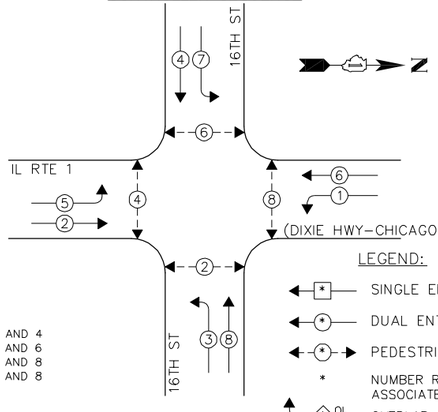
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012–038TS	COOK	43	11
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



CABLE PLAN

EXISTING
CONTROLLER SEQUENCE

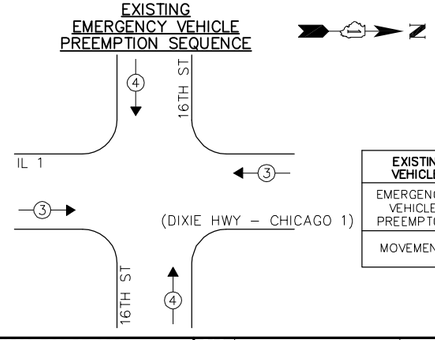


LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

EXISTING
EMERGENCY VEHICLE
PREEMPTION SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	⟵	↓ ↑

PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
SIGNAL (YELLOW)	12	135	25	0.25	75.00
SIGNAL (GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	531.60

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

GHA #4085.883

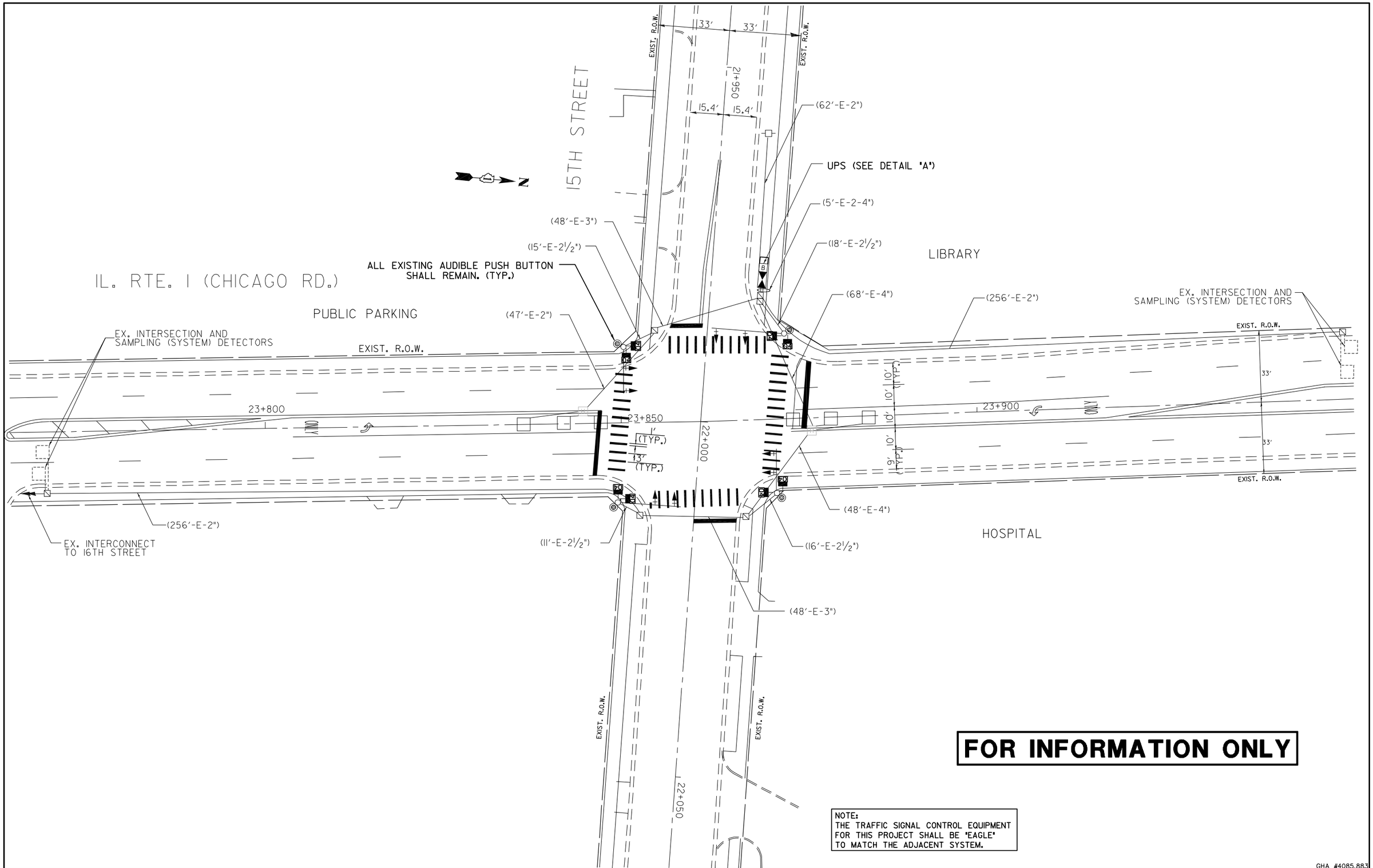
FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – –	REVISED –
		DRAWN – –	REVISED –
	PLOT SCALE = 1" = .0833'	CHECKED – –	REVISED –
	PLOT DATE = 6/28/2012	DATE – 6/28/2012	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
IL RTE 1 (DIXIE HWY-CHICAGO RD) AT 16TH STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	12
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

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

GHA #4085.883

FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

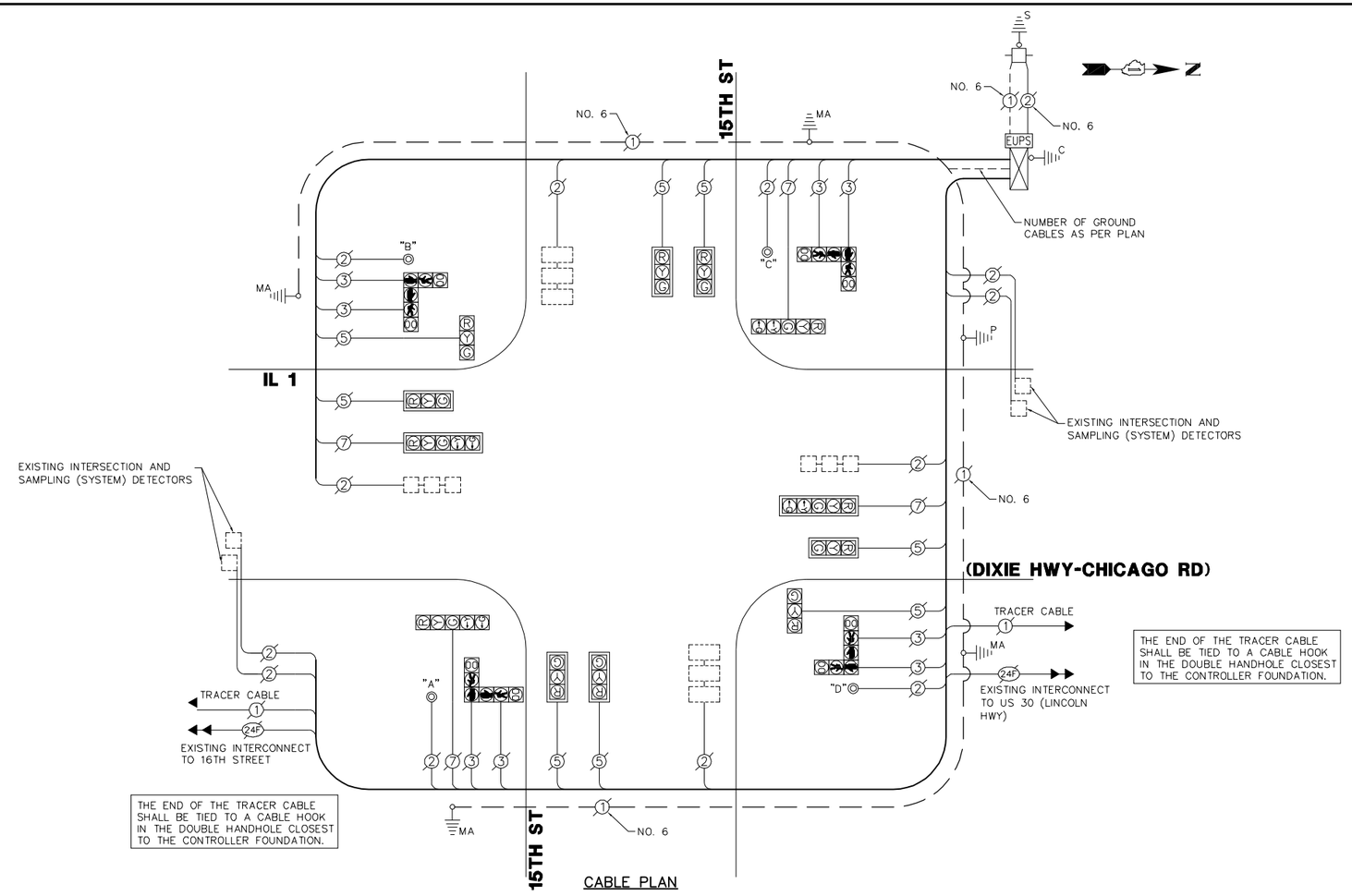
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
IL 1 (DIXIE HWY-CHICAGO RD) AT 15TH STREET
(FOR INFORMATION ONLY)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

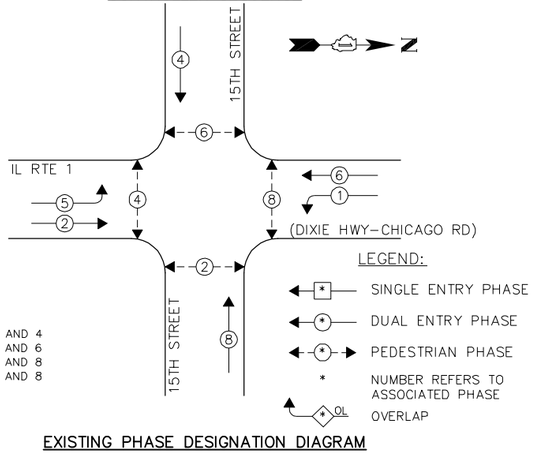
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	13
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



CABLE PLAN

EXISTING CONTROLLER SEQUENCE



EXISTING PHASE DESIGNATION DIAGRAM

PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
SIGNAL (YELLOW)	12	135	25	0.25	75.00
SIGNAL (GREEN)	12	135	15	0.25	45.00
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	531.60

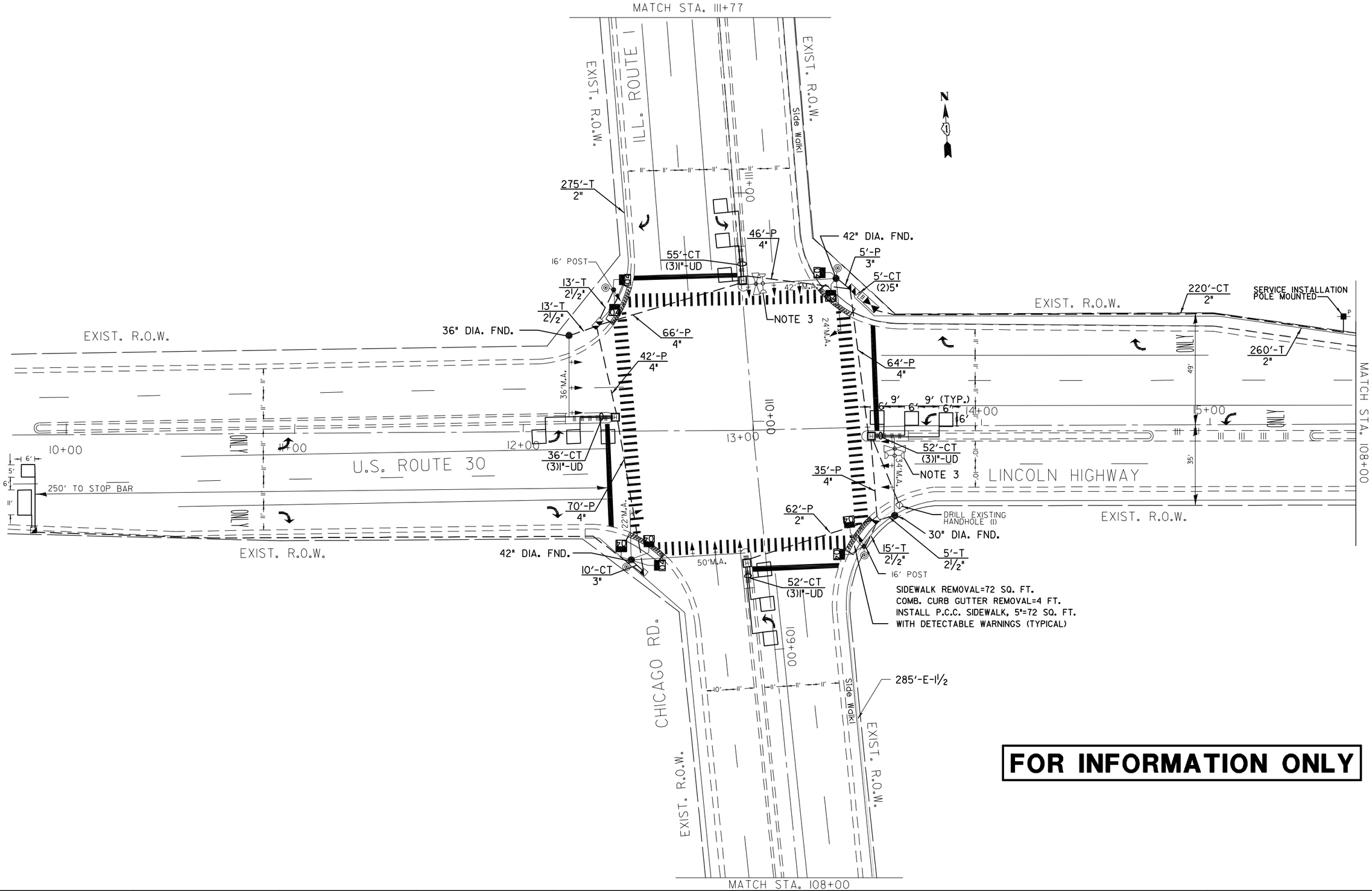
ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – –	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL 1 (DIXIE HWY-CHICAGO RD) AT 15TH STREET
		DRAWN – –	REVISED –		
	PLOT SCALE = 1" = .0833'	CHECKED – –	REVISED –		
	PLOT DATE = 6/28/2012	DATE – 6/28/2012	REVISED –		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	14
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

GHA #4085.883

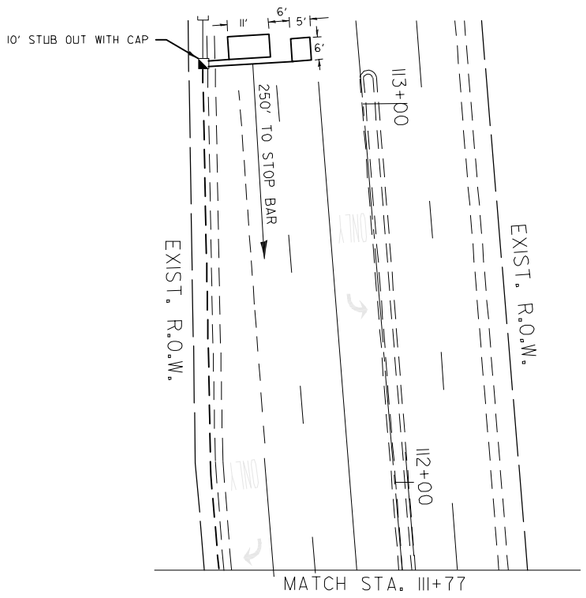
FILE NAME = 4085.883-intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

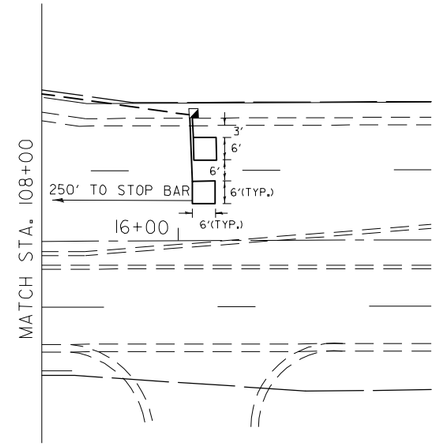
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

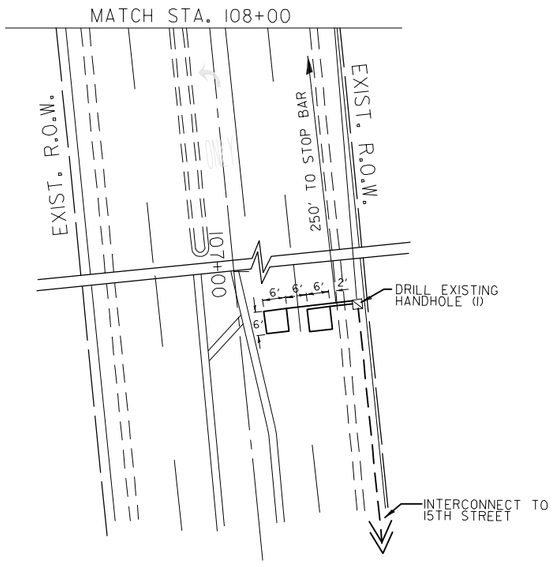
TRAFFIC SIGNAL PLAN
U.S. 30 (LINCOLN HWY) AT IL 1 (CHICAGO RD)
(FOR INFORMATION ONLY)

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353/876	2012-038TS	COOK	43	15
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		







FOR INFORMATION ONLY

GHA #4085.883

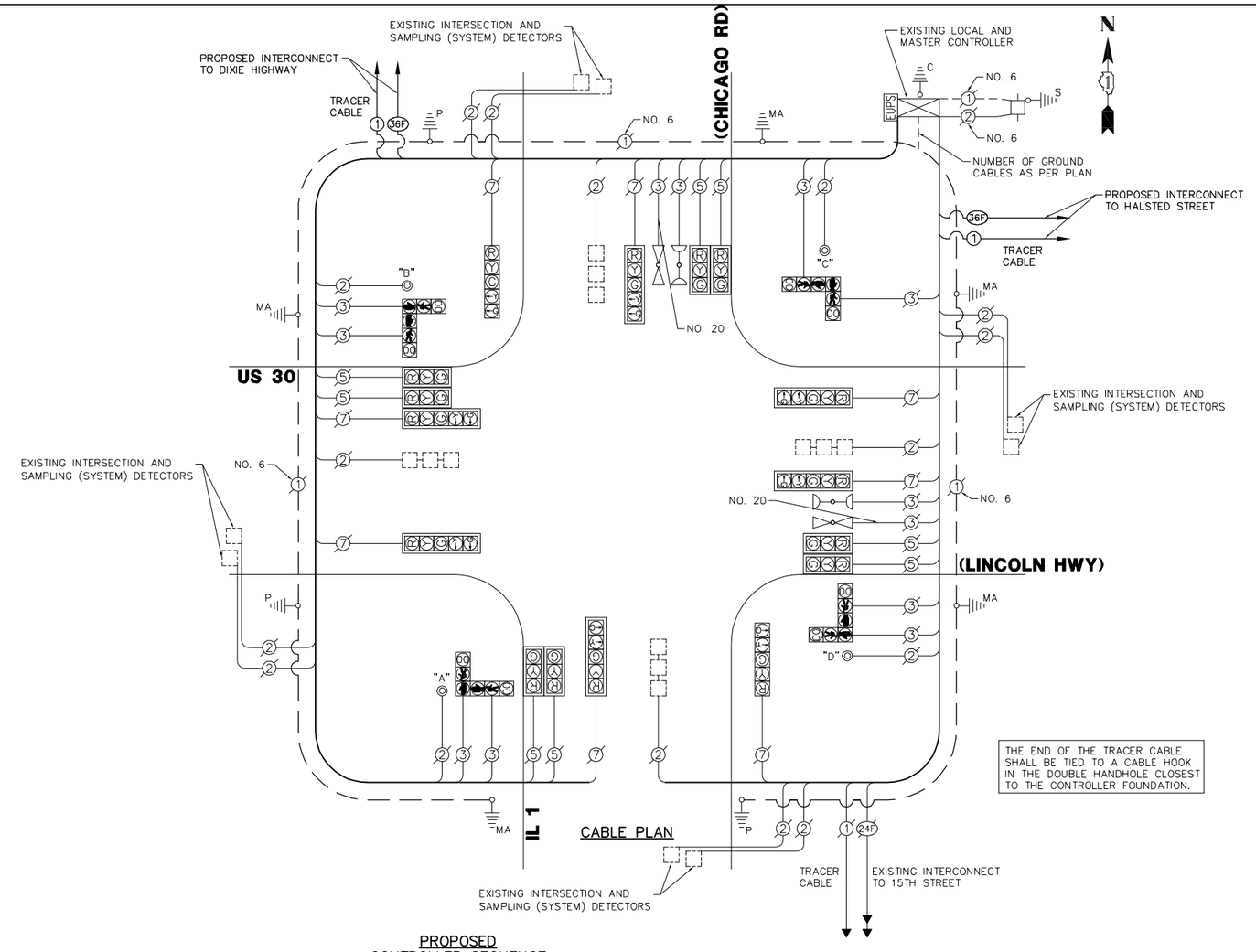
FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN U.S. 30 (LINCOLN HWY) AT IL 1 (CHICAGO RD) (FOR INFORMATION ONLY)
		DRAWN - -	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -		SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353/876	2012-038TS	COOK	43	16
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

U.S. RTE 30 (LINCOLN HWY) AT IL RTE 1 (DIXIE HWY-CHICAGO RD)

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	MODIFY EXISTING CONTROLLER

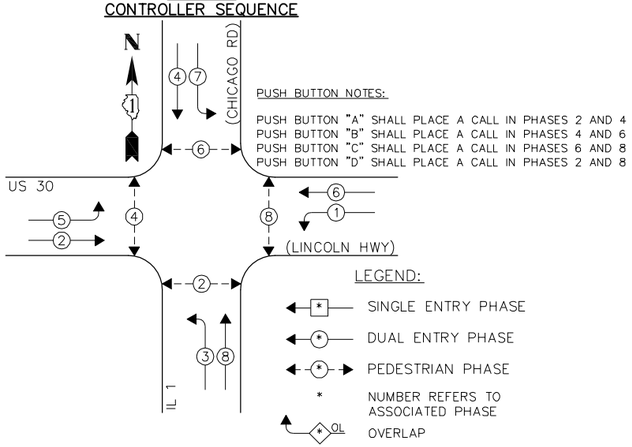


THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	17	–	17	0.50	144.50
SIGNAL (YELLOW)	17	–	25	0.25	106.25
SIGNAL (GREEN)	17	–	15	0.25	63.75
ARROW	18	–	12	0.10	21.60
PED. SIGNAL	4	–	25	1.00	100.00
CONTROLLER	1	–	100	1.00	100.00
ILLUM. SIGN	–	–	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	536.10

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

EXISTING CONTROLLER SEQUENCE



PUSH BUTTON NOTES:

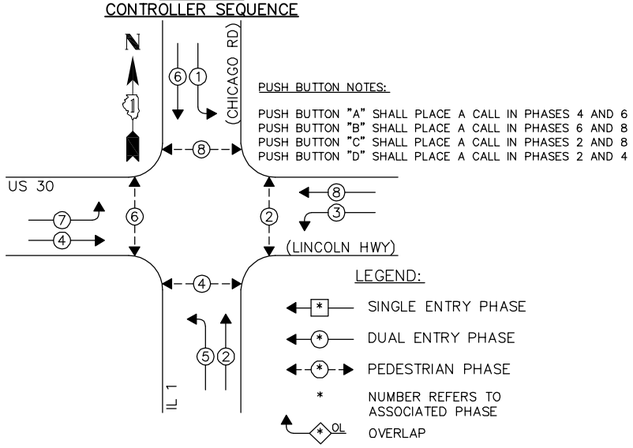
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

EXISTING PHASE DESIGNATION DIAGRAM

PROPOSED CONTROLLER SEQUENCE



PUSH BUTTON NOTES:

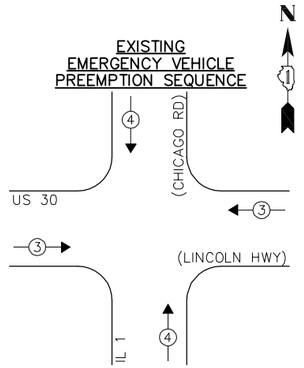
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 2 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 4

LEGEND:

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- * NUMBER REFERS TO ASSOCIATED PHASE
- OL OVERLAP

PROPOSED PHASE DESIGNATION DIAGRAM

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

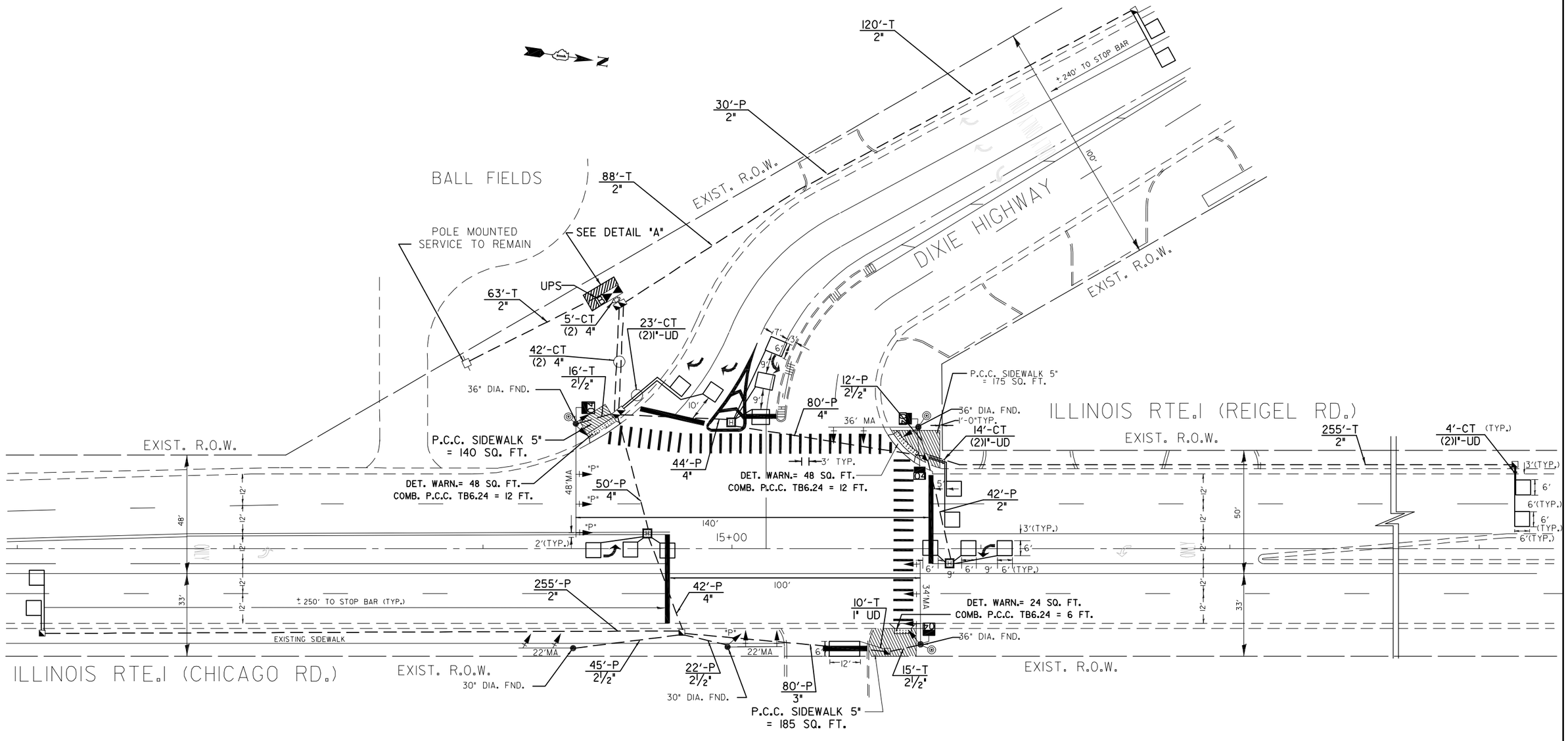


EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	—	|

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – –	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE U.S. 30 (LINCOLN HWY) AT IL 1 (CHICAGO RD)
		DRAWN – –	REVISED –		
	PLOT SCALE = 1" = .0833'	CHECKED – –	REVISED –		
	PLOT DATE = 6/28/2012	DATE – 6/28/2012	REVISED –		SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353/876	2012-038TS	COOK	43	17
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

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

GHA #4085.883

FILE NAME = 4085.883-intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
IL 1 (CHICAGO RD) AT DIXIE HIGHWAY
(FOR INFORMATION ONLY)

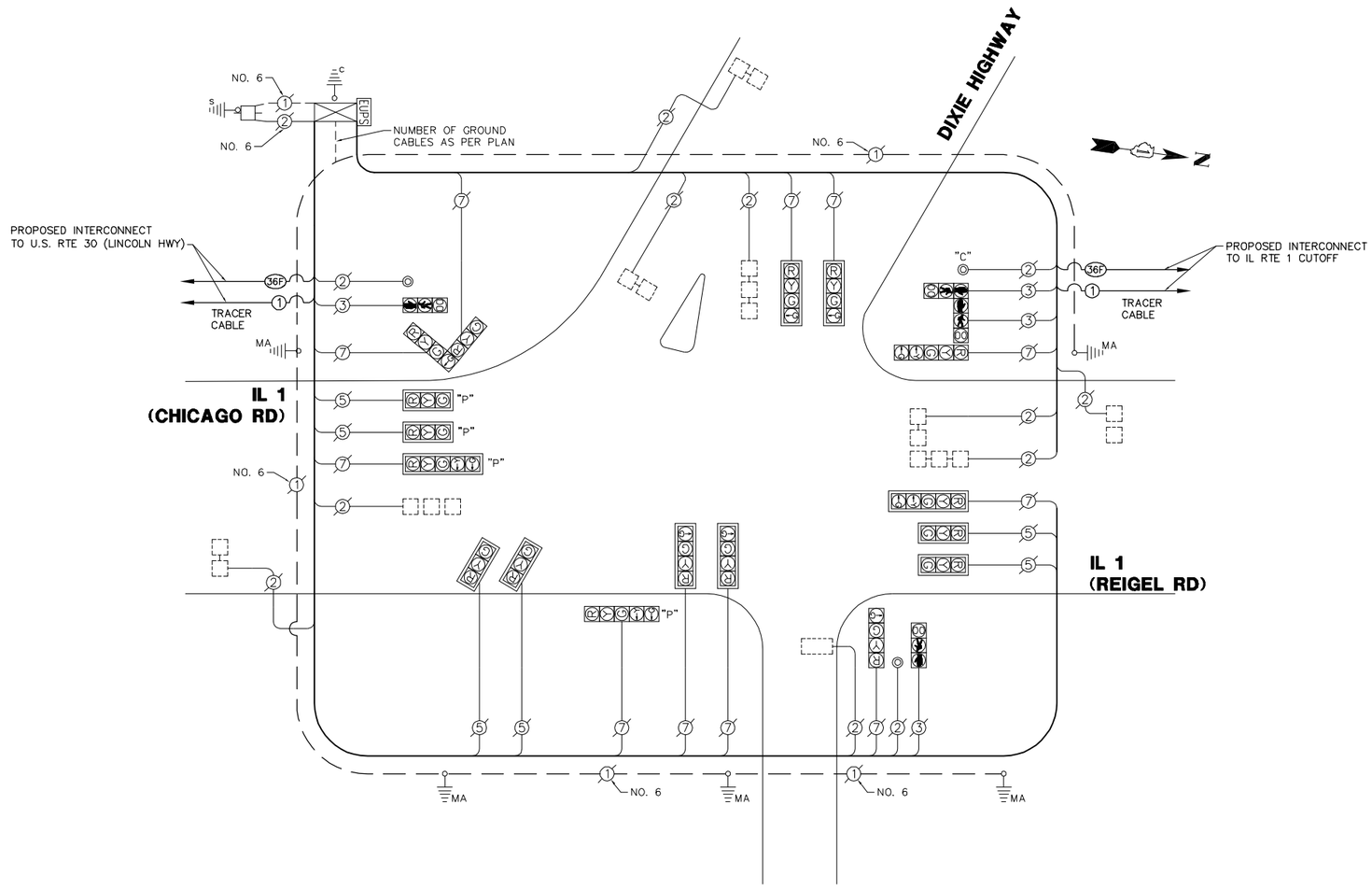
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	18
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

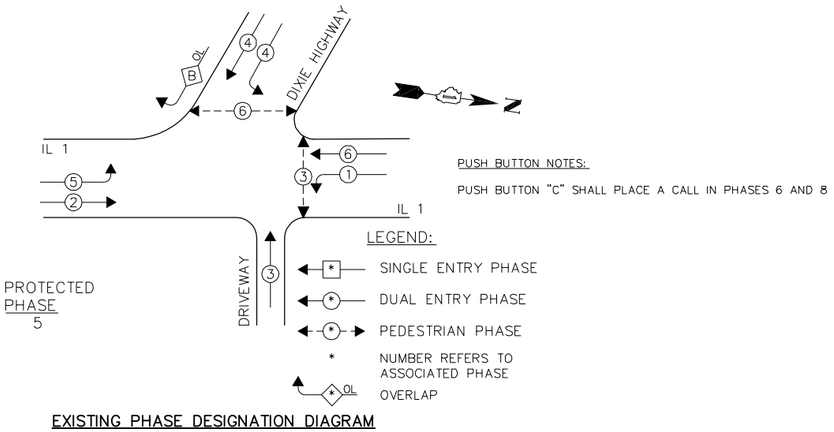
IL RTE 1 (CHICAGO RD) AT DIXIE HIGHWAY

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	1	EACH	MODIFY EXISTING CONTROLLER



CABLE PLAN

EXISTING CONTROLLER SEQUENCE



OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5

EXISTING PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	17	–	17	0.50	144.50
SIGNAL (YELLOW)	17	–	25	0.25	106.25
SIGNAL (GREEN)	17	–	15	0.25	63.75
ARROW	18	–	12	0.10	21.60
PED. SIGNAL	4	–	25	1.00	100.00
CONTROLLER	1	–	100	1.00	100.00
ILLUM. SIGN	–	–	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	536.10

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

GHA #4085.883

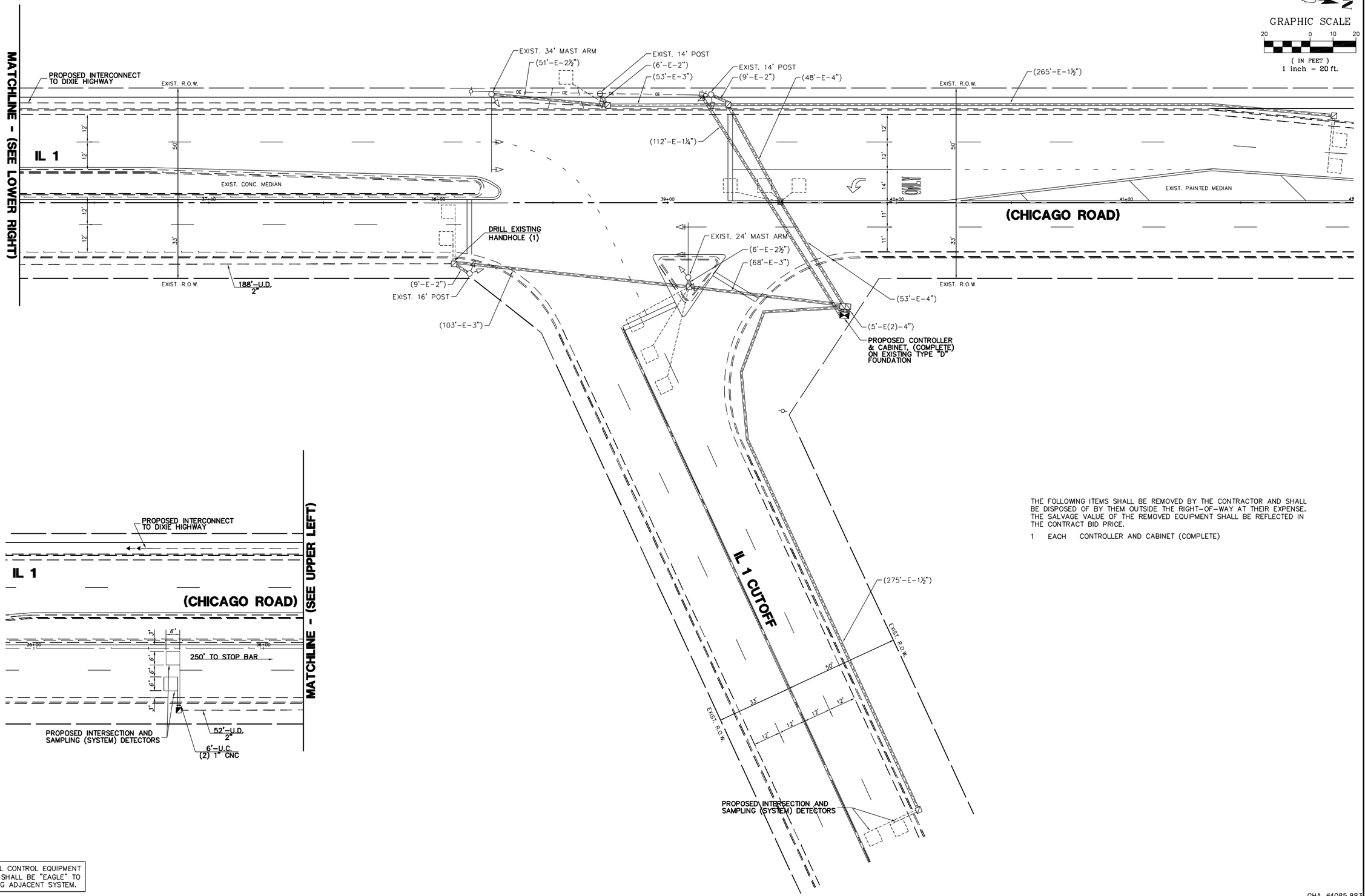
FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – –	REVISED –
		DRAWN – –	REVISED –
	PLOT SCALE = 1" = .0833'	CHECKED – –	REVISED –
	PLOT DATE = 6/28/2012	DATE – 6/28/2012	REVISED –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM
IL 1 (CHICAGO RD) AT DIXIE HIGHWAY

SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353/876	2012-038TS	COOK	43	19
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



THE FOLLOWMG ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER AND CABINET (COMPLETE)

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

GHA #4085.883

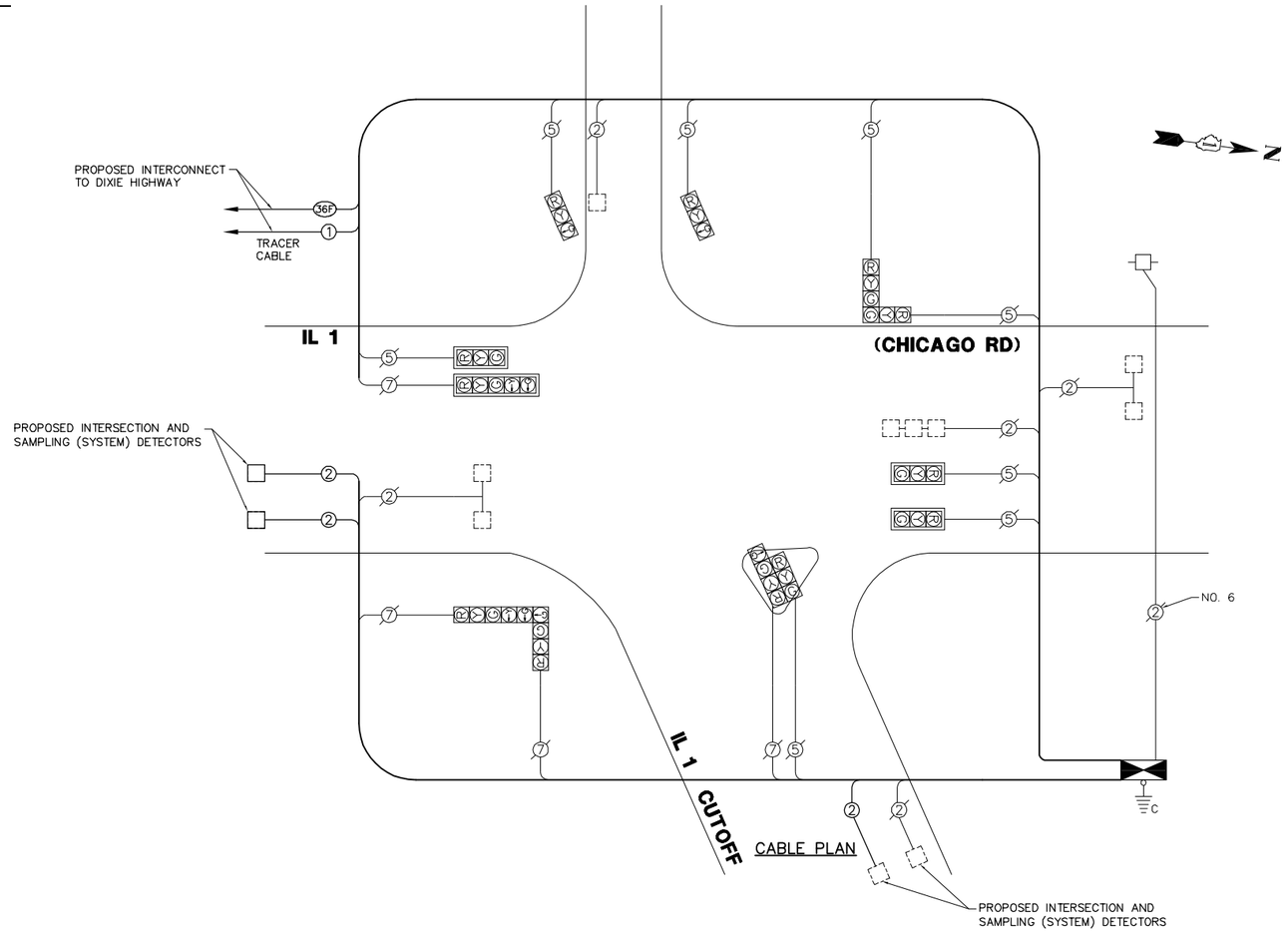
FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN IL 1 (CHICAGO ROAD) AT IL 1 CUTOFF
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	20
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

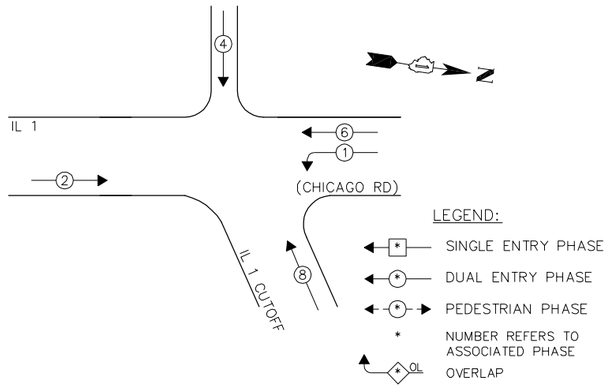
IL 1 (CHICAGO RD) AT IL 1 CUTOFF

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	240	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
8.	1	EACH	HANDHOLE
9.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
10.	1	EACH	TRANSCEIVER - FIBER OPTIC
11.	1,209	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
12.	1	EACH	DRILL EXISTING HANDHOLE
13.	8	EACH	INDUCTIVE LOOP DETECTOR
14.	66	FOOT	DETECTOR LOOP, TYPE I
15.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
16.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL



CABLE PLAN

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.00
SIGNAL (YELLOW)	12	135	25	0.25	405.00
SIGNAL (GREEN)	12	135	15	0.25	405.00
ARROW	6	135	12	0.10	81.0
PED. SIGNAL	–	90	25	1.00	–
CONTROLLER	1	–	100	1.00	100.00
ILLUM. SIGN	–	–	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	1801.00

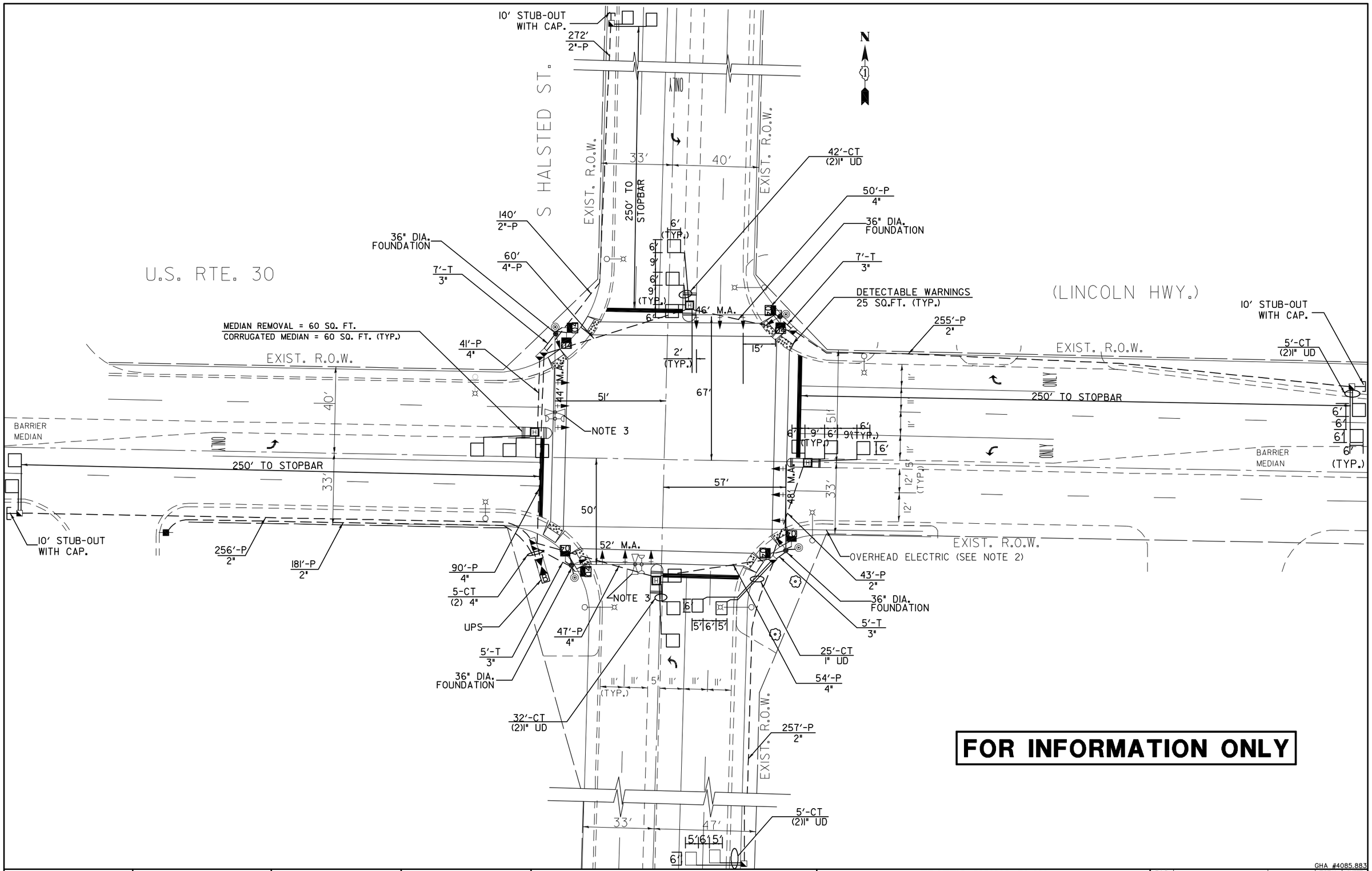
ENERGY COSTS – BILLED TO: CITY OF CHICAGO HEIGHTS
(ADDRESS) 1601 CHICAGO ROAD
(ADDRESS) CHICAGO HEIGHS, IL 60411
ENERGY SUPPLY – CONTACT: NEW BUSINESS
PHONE: 1-866-639-3552
COMPANY: COM. EDISON

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

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM IL 1 (CHICAGO RD) AT IL 1 CUTOFF
		DRAWN - –	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -		
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		SCALE N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	2012-038TS	COOK	43	21
		CONTRACT #:	60T86	
		ILLINOIS | FED. AID PROJECT		



FOR INFORMATION ONLY

GHA #4085.883

FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. RTE 30 (LINCOLN HWY) AT HALSTED STREET
(FOR INFORMATION ONLY)

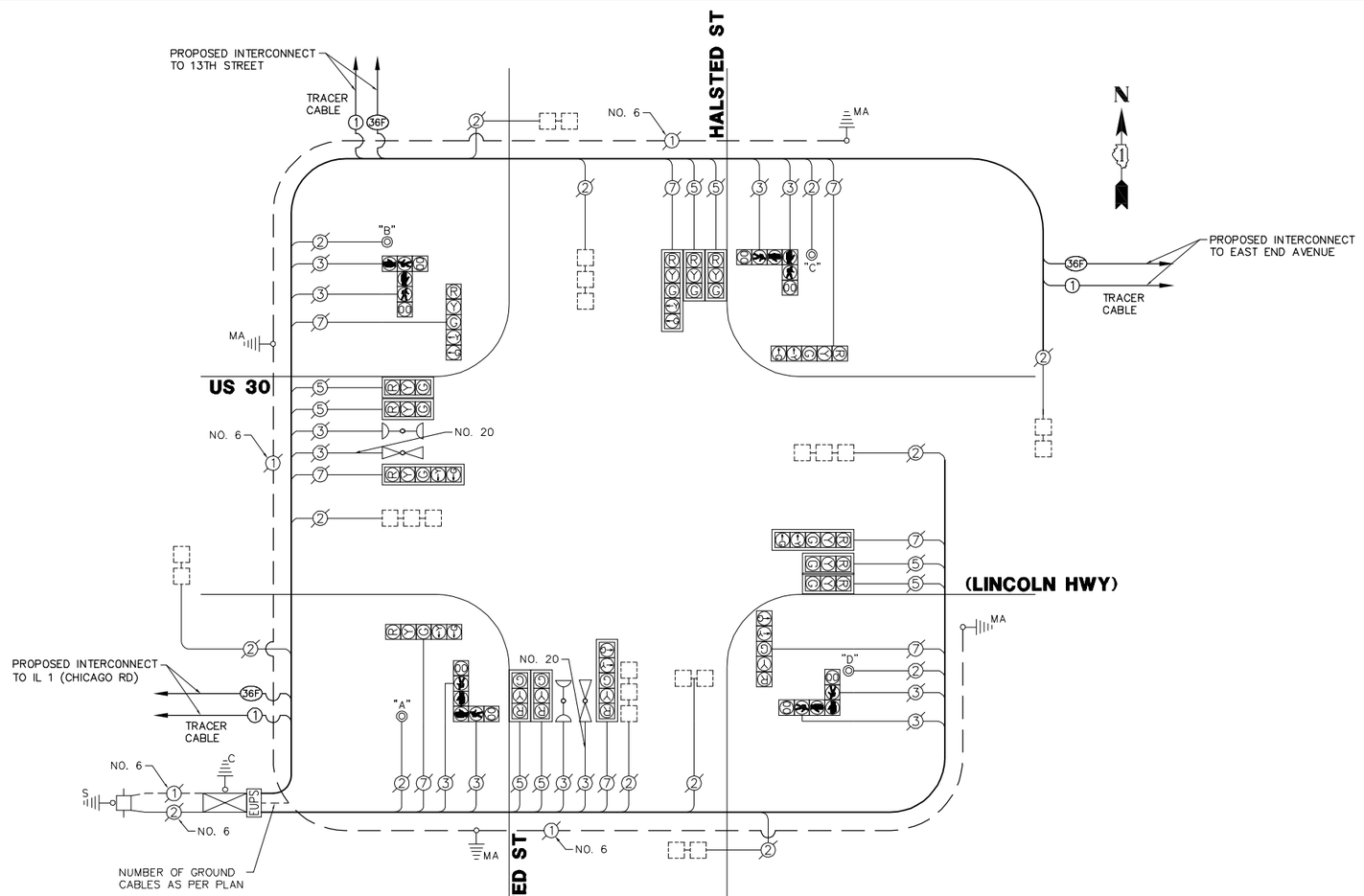
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	22
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

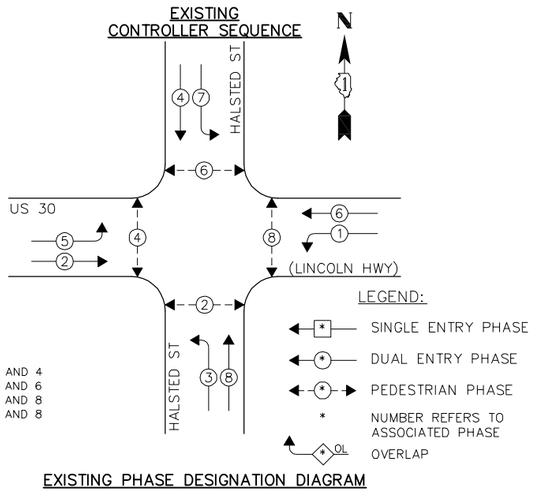
SCHEDULE OF QUANTITIES

U.S. 30 (LINCOLN HWY) AT HALSTED STREET

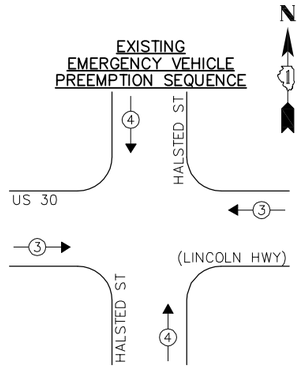
NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	1	EACH	MODIFY EXISTING CONTROLLER



CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.00
SIGNAL (YELLOW)	16	135	25	0.25	100.00
SIGNAL (GREEN)	16	135	15	0.25	60.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	615.20

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

GHA #4085.883

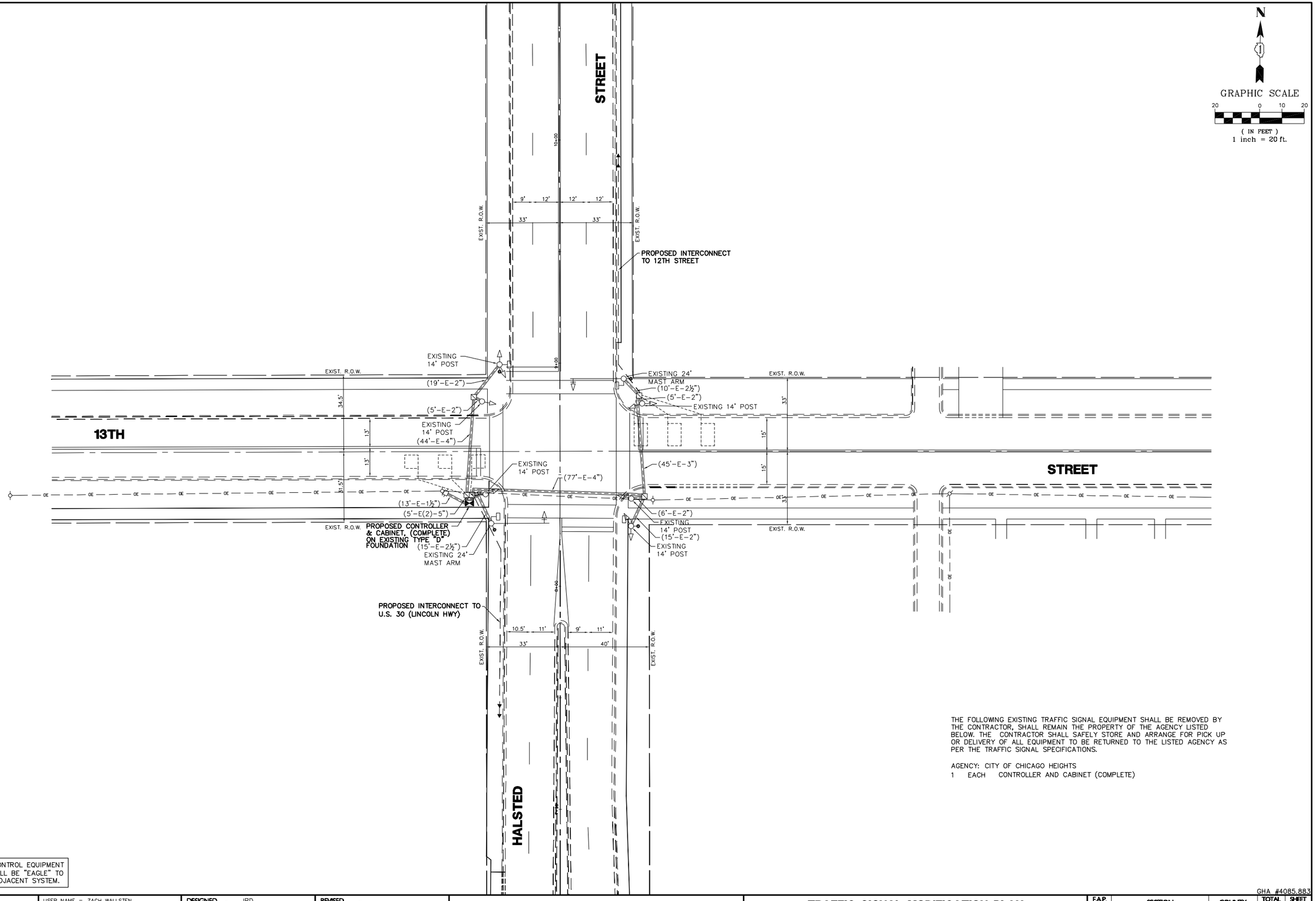
FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMPTION SEQUENCE
US 30 (LINCOLN HWY) AT HALSTED STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	23
		CONTRACT #:	60T86	
		ILLINOIS	FED. AID PROJECT	



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: CITY OF CHICAGO HEIGHTS
1 EACH CONTROLLER AND CABINET (COMPLETE)

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

GHA #4085.883

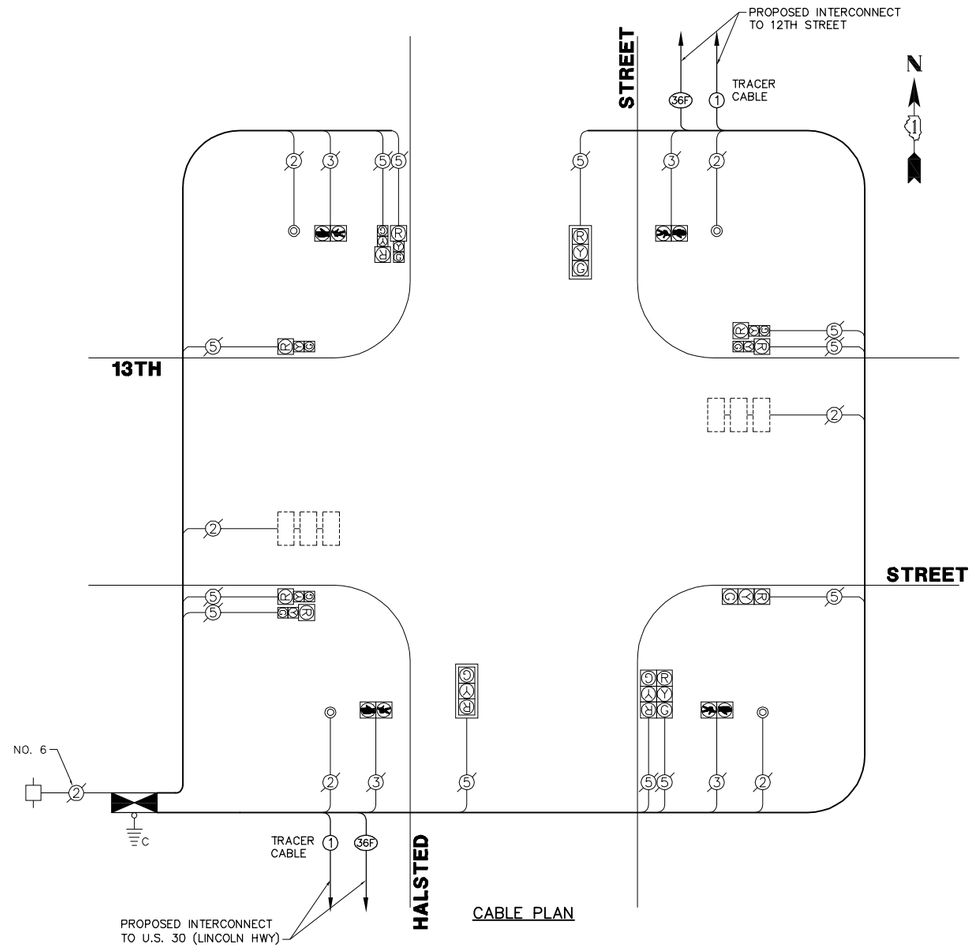
FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL MODIFICATION PLAN HALSTED STREET AT 13TH STREET
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
–	2012-038TS	COOK	43	24
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

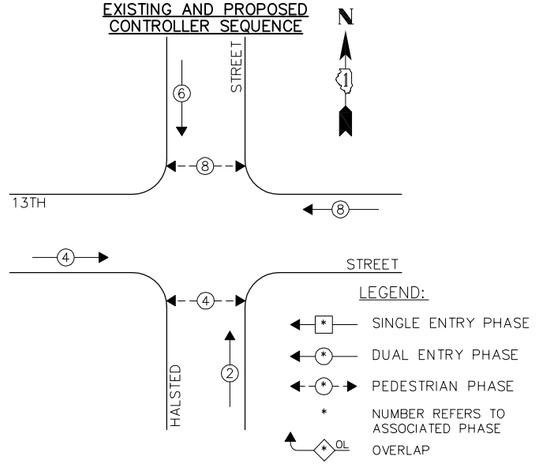
HALSTED STREET AT 13TH STREET

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	2	EACH	INDUCTIVE LOOP DETECTOR
10.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL



CABLE PLAN

EXISTING AND PROPOSED CONTROLLER SEQUENCE



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.00
SIGNAL (YELLOW)	12	135	25	0.25	405.00
SIGNAL (GREEN)	12	135	15	0.25	405.00
ARROW	–	135	12	0.10	–
PED. SIGNAL	4	90	25	1.00	360.00
CONTROLLER	1	–	100	1.00	100.00
ILLUM. SIGN	–	–	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	2080.00

ENERGY COSTS – BILLED TO: CITY OF CHICAGO HEIGHTS
(ADDRESS) 1601 CHICAGO ROAD
(ADDRESS) CHICAGO HEIGHS, IL 60411
ENERGY SUPPLY – CONTACT: NEW BUSINESS
PHONE: 1-866-639-3552
COMPANY: COM. EDISON

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

GHA #4085.883

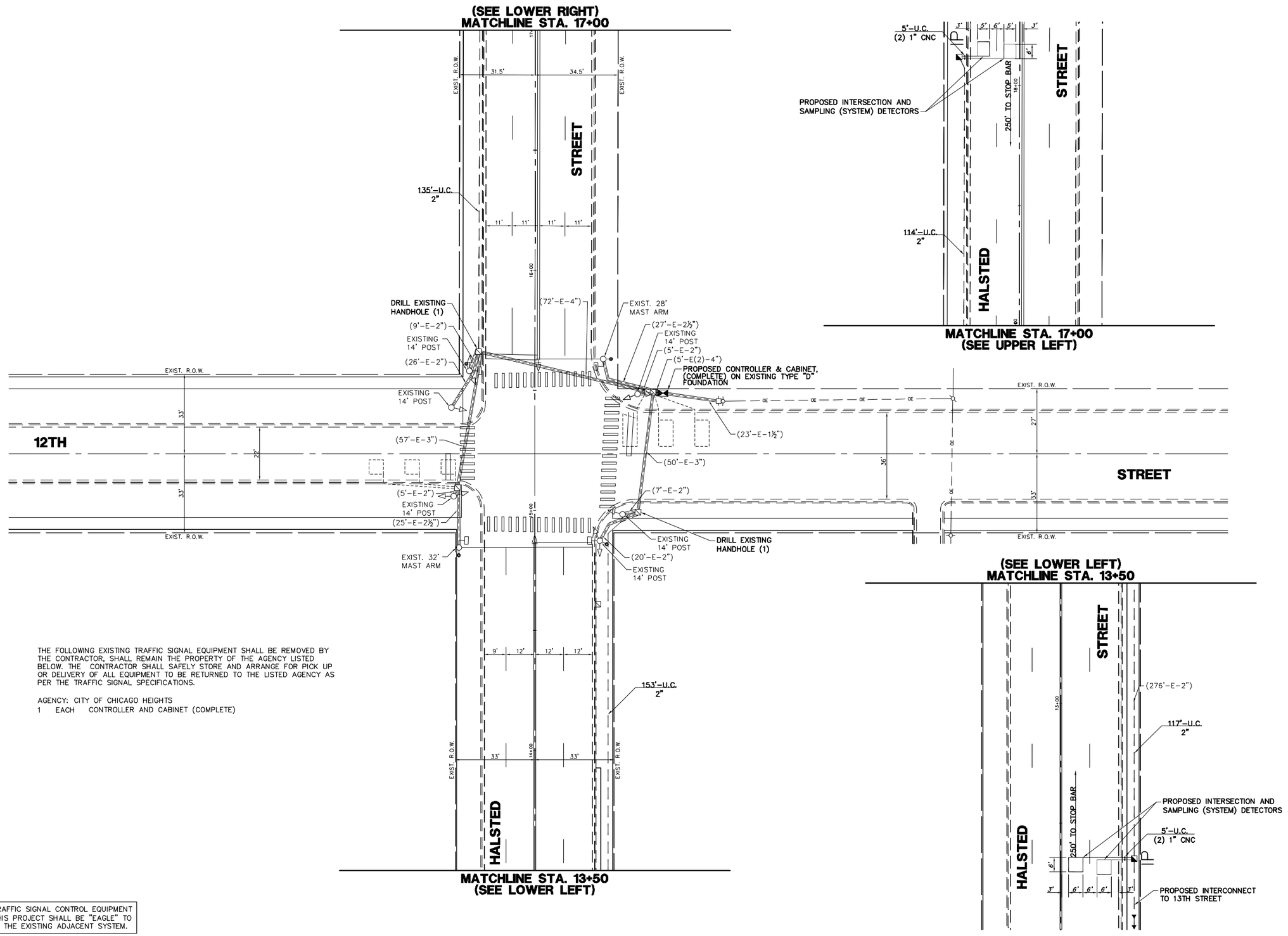
FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
HALSTED STREET AT 13TH STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
–	2012-038TS	COOK	43	25
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			



THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OR DELIVERY OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: CITY OF CHICAGO HEIGHTS
1 EACH CONTROLLER AND CABINET (COMPLETE)

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

GHA #4085.883

FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
HALSTED STREET AT 12TH STREET

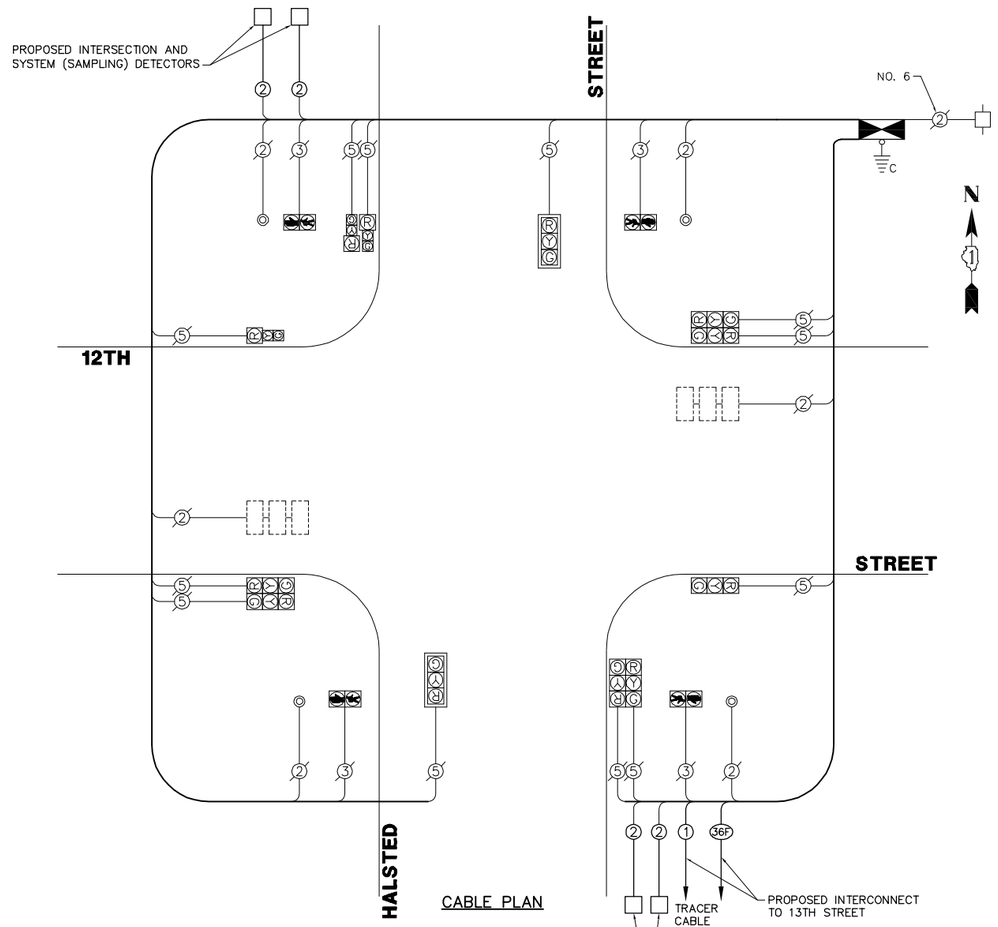
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	2012-038TS	COOK	43	26
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			

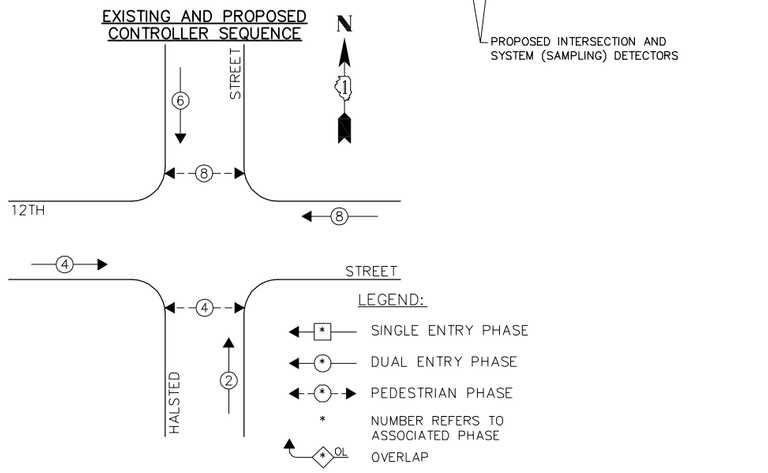
SCHEDULE OF QUANTITIES

HALSTED STREET AT 12TH STREET

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	519	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
8.	2	EACH	HANDHOLE
9.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
10.	1	EACH	TRANSCEIVER - FIBER OPTIC
11.	1,424	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
12.	2	EACH	DRILL EXISTING HANDHOLE
13.	6	EACH	INDUCTIVE LOOP DETECTOR
14.	127	FOOT	DETECTOR LOOP, TYPE I
15.	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
16.	1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL



CABLE PLAN



EXISTING AND PROPOSED PHASE DESIGNATION DIAGRAM

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.00
SIGNAL (YELLOW)	12	135	25	0.25	405.00
SIGNAL (GREEN)	12	135	15	0.25	405.00
ARROW	–	135	12	0.10	–
PED. SIGNAL	4	90	25	1.00	360.00
CONTROLLER	1	–	100	1.00	100.00
ILLUM. SIGN	–	–	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	2080.00

ENERGY COSTS – BILLED TO: CITY OF CHICAGO HEIGHTS
(ADDRESS) 1601 CHICAGO ROAD
(ADDRESS) CHICAGO HEIGHS, IL 60411
ENERGY SUPPLY – CONTACT: NEW BUSINESS
PHONE: 1-866-639-3552
COMPANY: COM. EDISON

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

GHA #4085.883

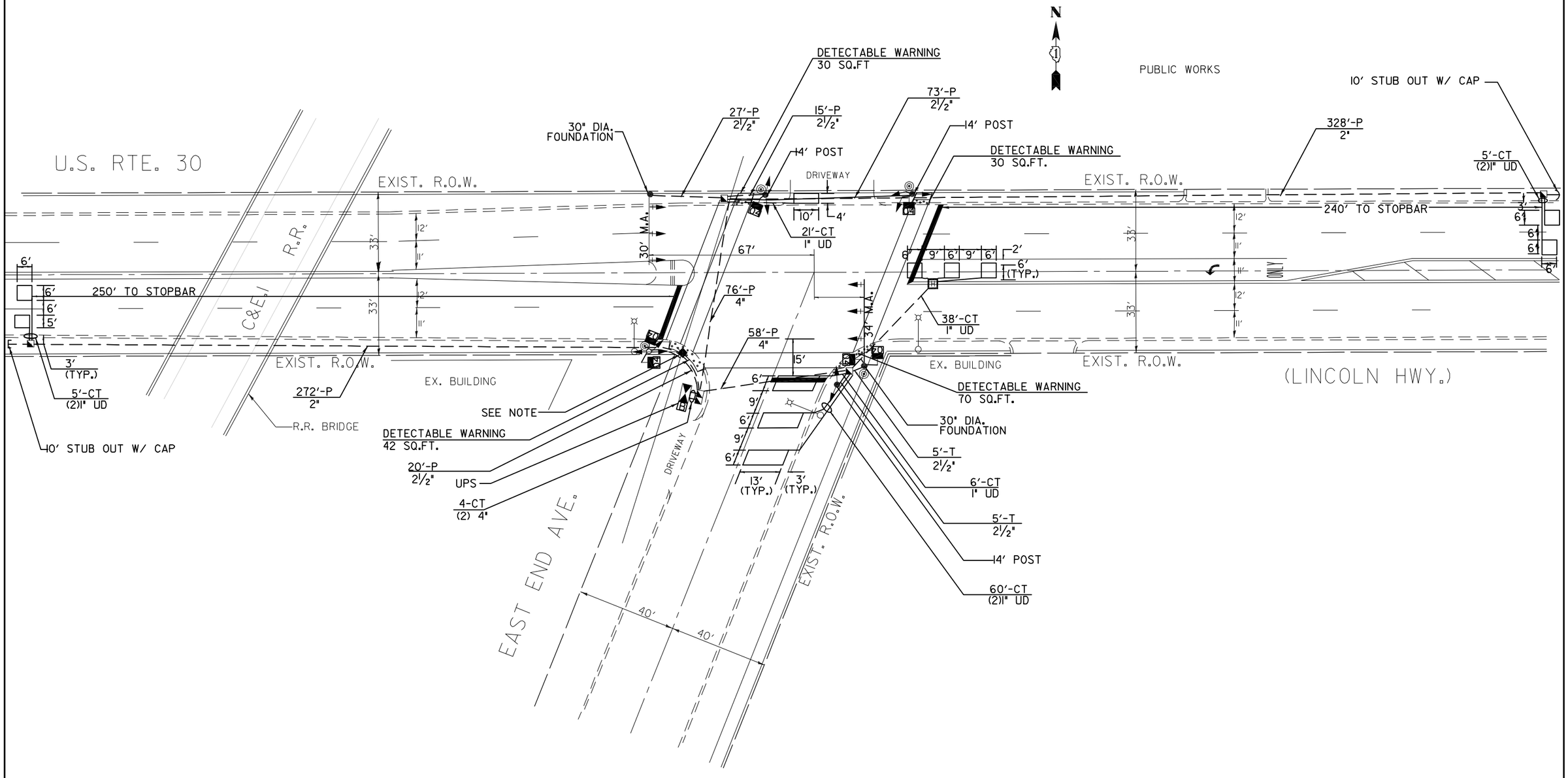
FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM
HALSTED STREET AT 12TH STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
–	2012-038TS	COOK	43	27
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			



FOR INFORMATION ONLY

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

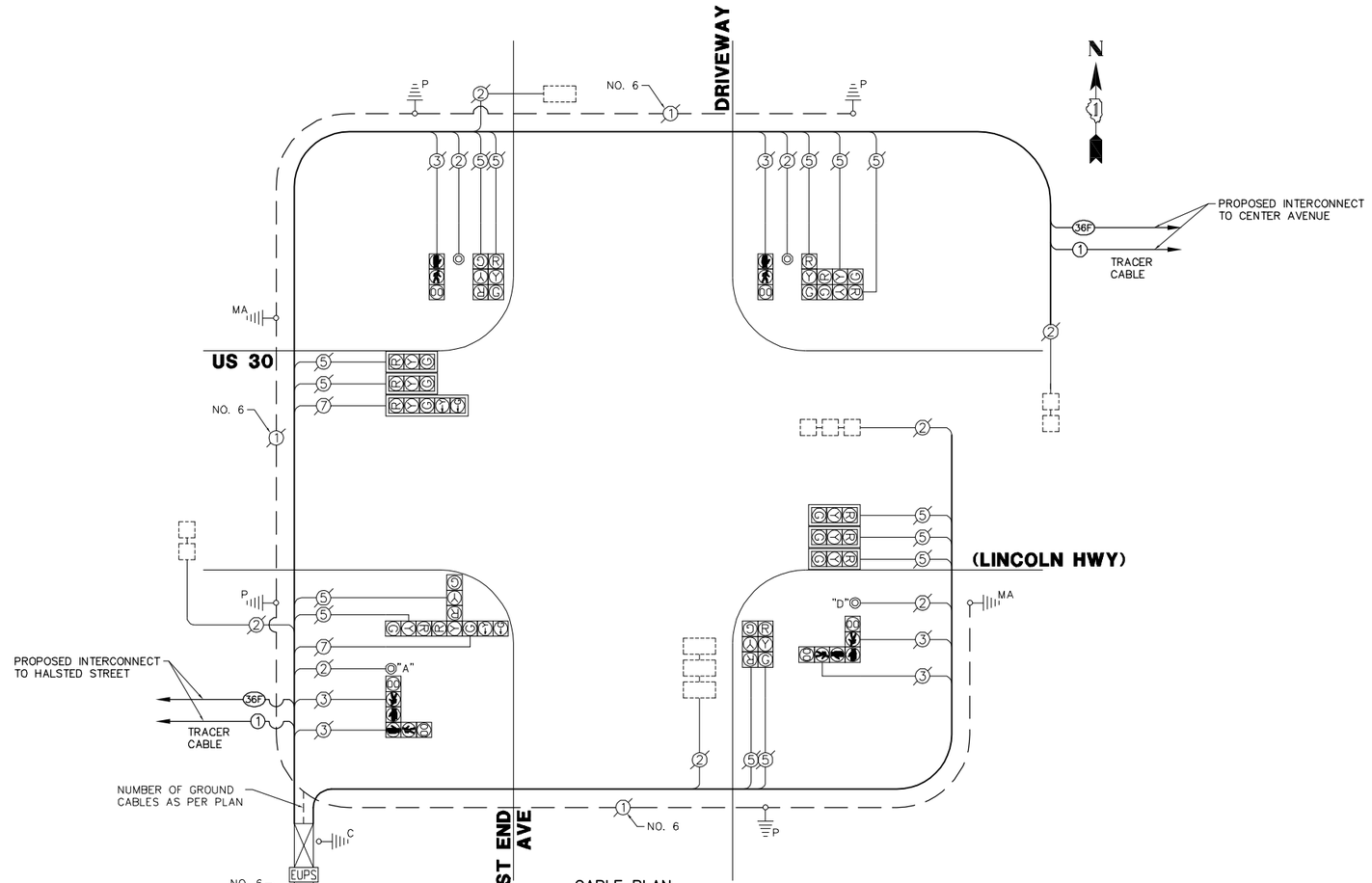
GHA #4085.883

FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN U.S. 30 (LINCOLN HWY) AT EAST END AVENUE (FOR INFORMATION ONLY)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - -	REVISED -			353	2012-038TS	COOK	43	28
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -					CONTRACT #:	60T86	
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

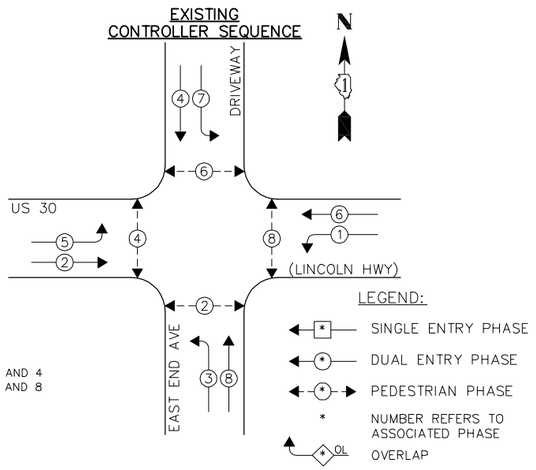
SCHEDULE OF QUANTITIES

U.S. 30 (LINCOLN HWY) AT EAST END AVENUE

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	1	EACH	MODIFY EXISTING CONTROLLER



CABLE PLAN



EXISTING PHASE DESIGNATION DIAGRAM

PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

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

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

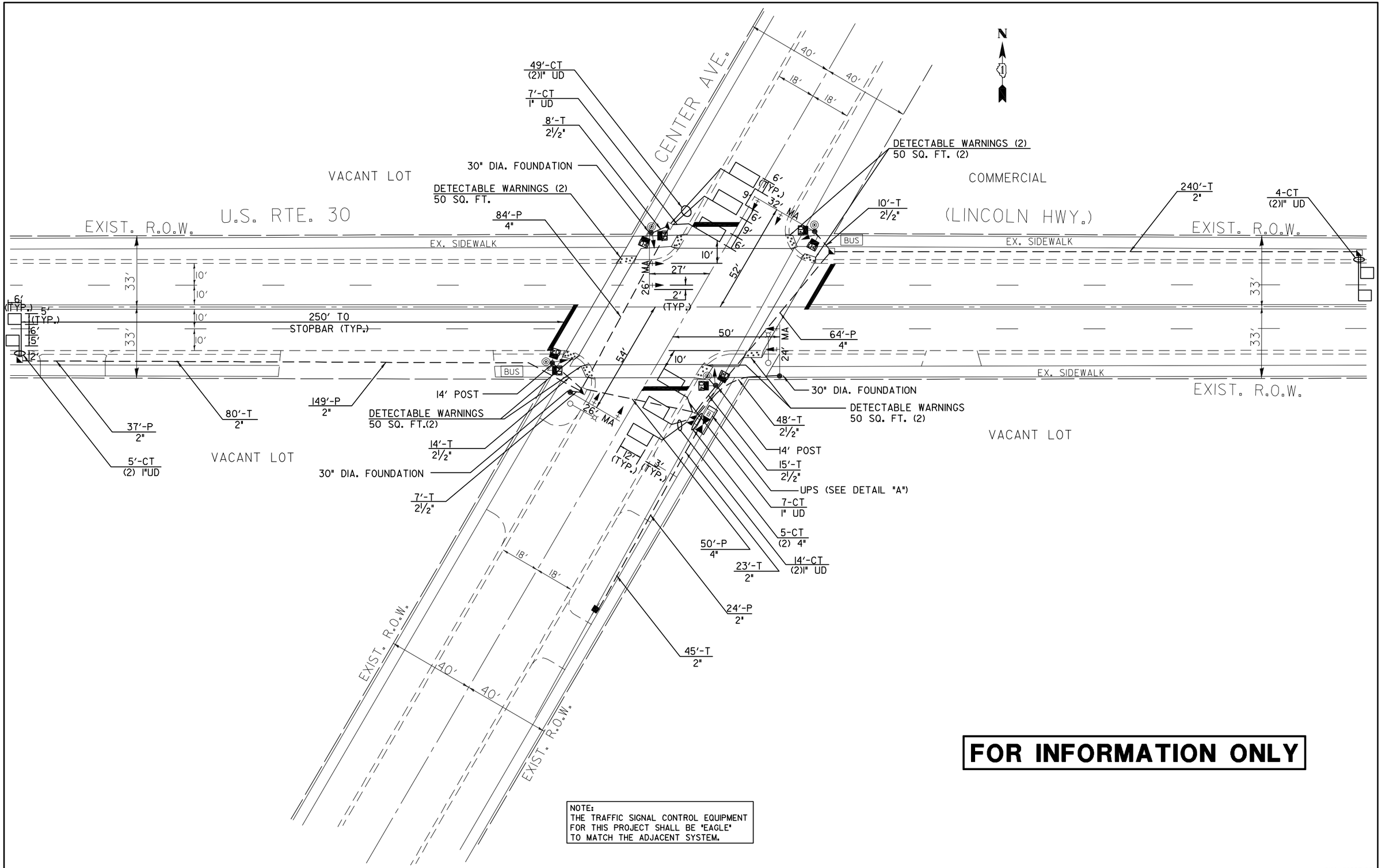
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE L.E.D.	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	17	0.50	136.00
SIGNAL (YELLOW)	16	135	25	0.25	100.00
SIGNAL (GREEN)	16	135	15	0.25	60.00
ARROW	4	135	12	0.10	4.80
PED. SIGNAL	6	90	25	1.00	150.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	550.80

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM US 30 (LINCOLN HWY) AT EAST END AVENUE
		DRAWN - –	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -		SCALE N.A. SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	29
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



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

FOR INFORMATION ONLY

GHA #4085.883

FILE NAME = 4085.883-Intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL PLAN U.S. 30 (LINCOLN HWY) AT CENTER AVENUE (FOR INFORMATION ONLY)
		DRAWN - -	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -		SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

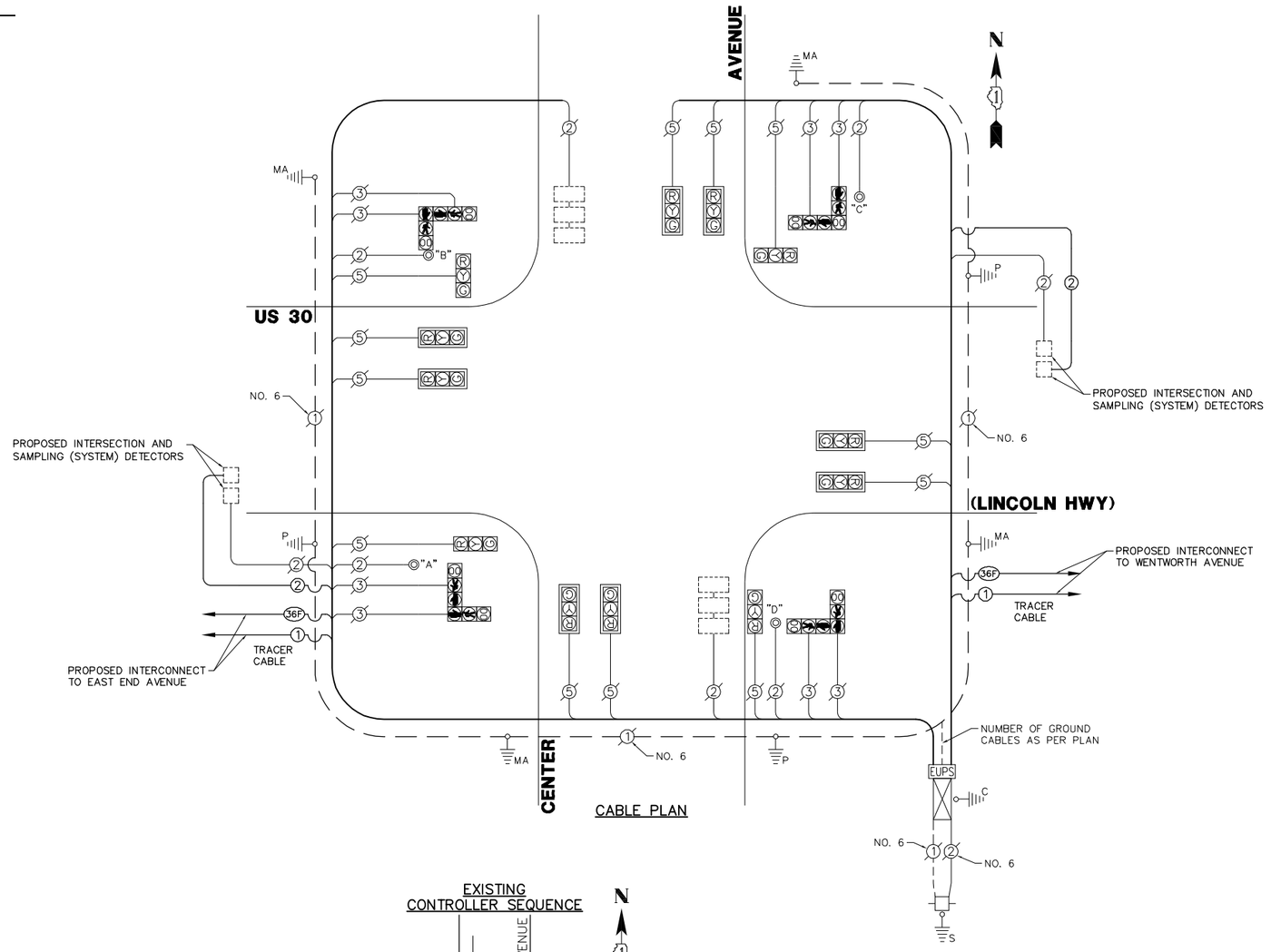
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	30
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			

SCHEDULE OF QUANTITIES

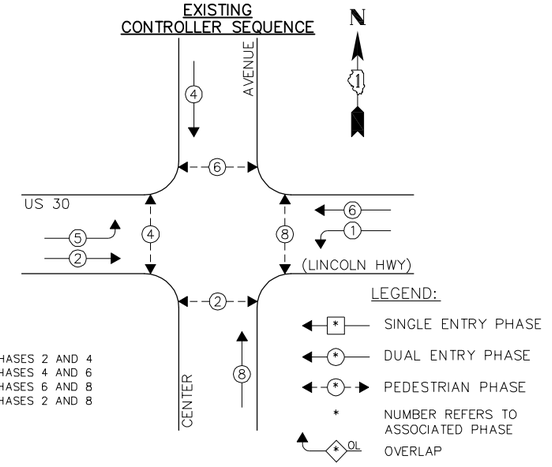
U.S. 30 (LINCOLN HWY) AT CENTER AVENUE

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	721	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
10.	2	EACH	INDUCTIVE LOOP DETECTOR
11.	1	EACH	MODIFY EXISTING CONTROLLER

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



CABLE PLAN



PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

EXISTING PHASE DESIGNATION DIAGRAM

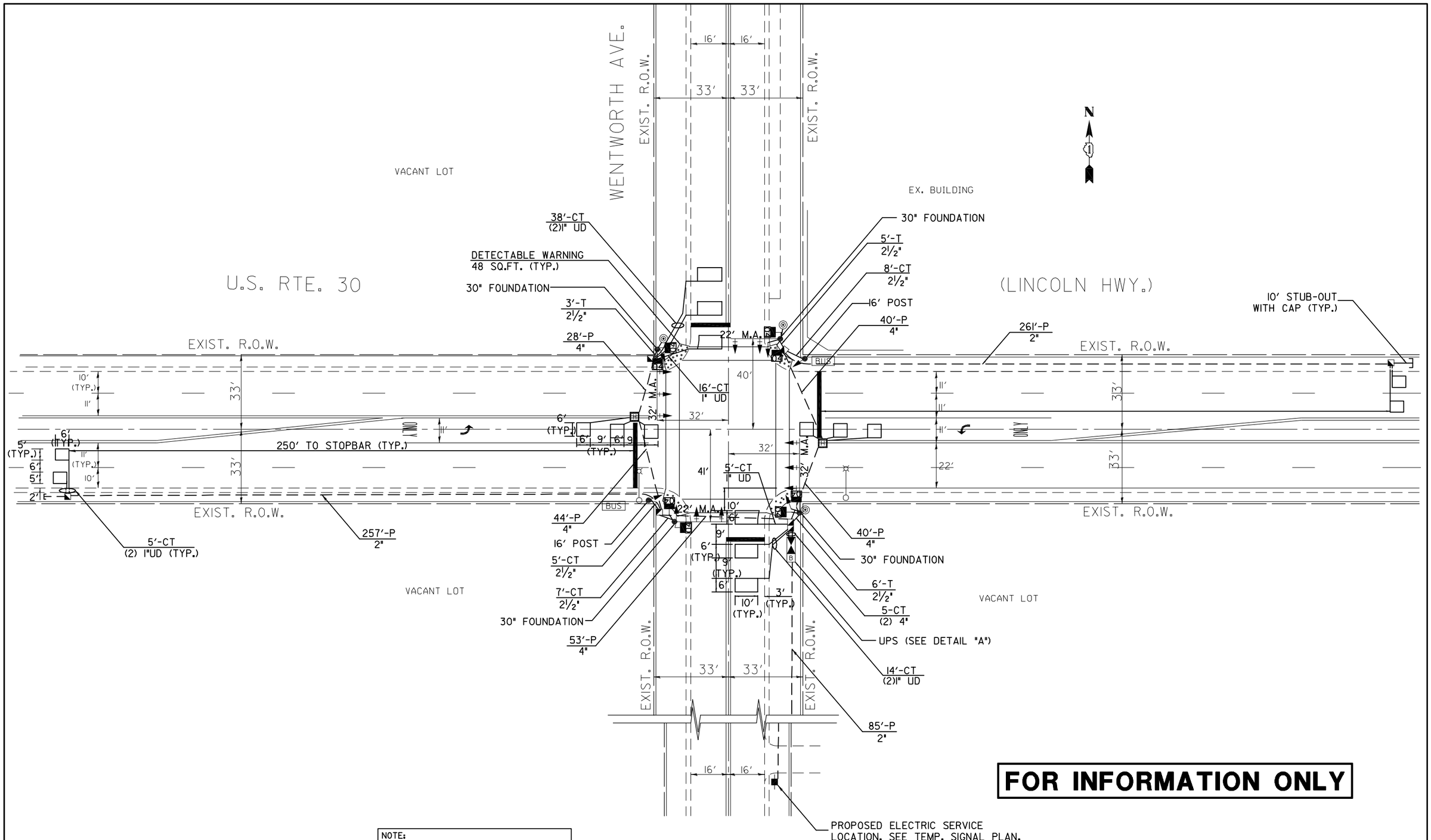
I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
SIGNAL (YELLOW)	12	135	25	0.25	75.00
SIGNAL (GREEN)	12	135	15	0.25	45.00
ARROW	–	135	12	0.10	–
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84	–	0.05	–
	–	–	–	–	–
	–	–	–	–	–
	–	–	–	–	–
FLASHER	–	–	–	0.50	–
				TOTAL =	522.00

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED – –	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM US 30 (LINCOLN HWY) AT CENTER AVENUE
		DRAWN – –	REVISED –		
	PLOT SCALE = 1" = .0833'	CHECKED – –	REVISED –		
	PLOT DATE = 6/28/2012	DATE – 6/28/2012	REVISED –		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	31
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



FOR INFORMATION ONLY

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

GHA #4085.883

FILE NAME = 4085.883-intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. 30 (LINCOLN HWY) AT WENTWORTH AVENUE
(FOR INFORMATION ONLY)

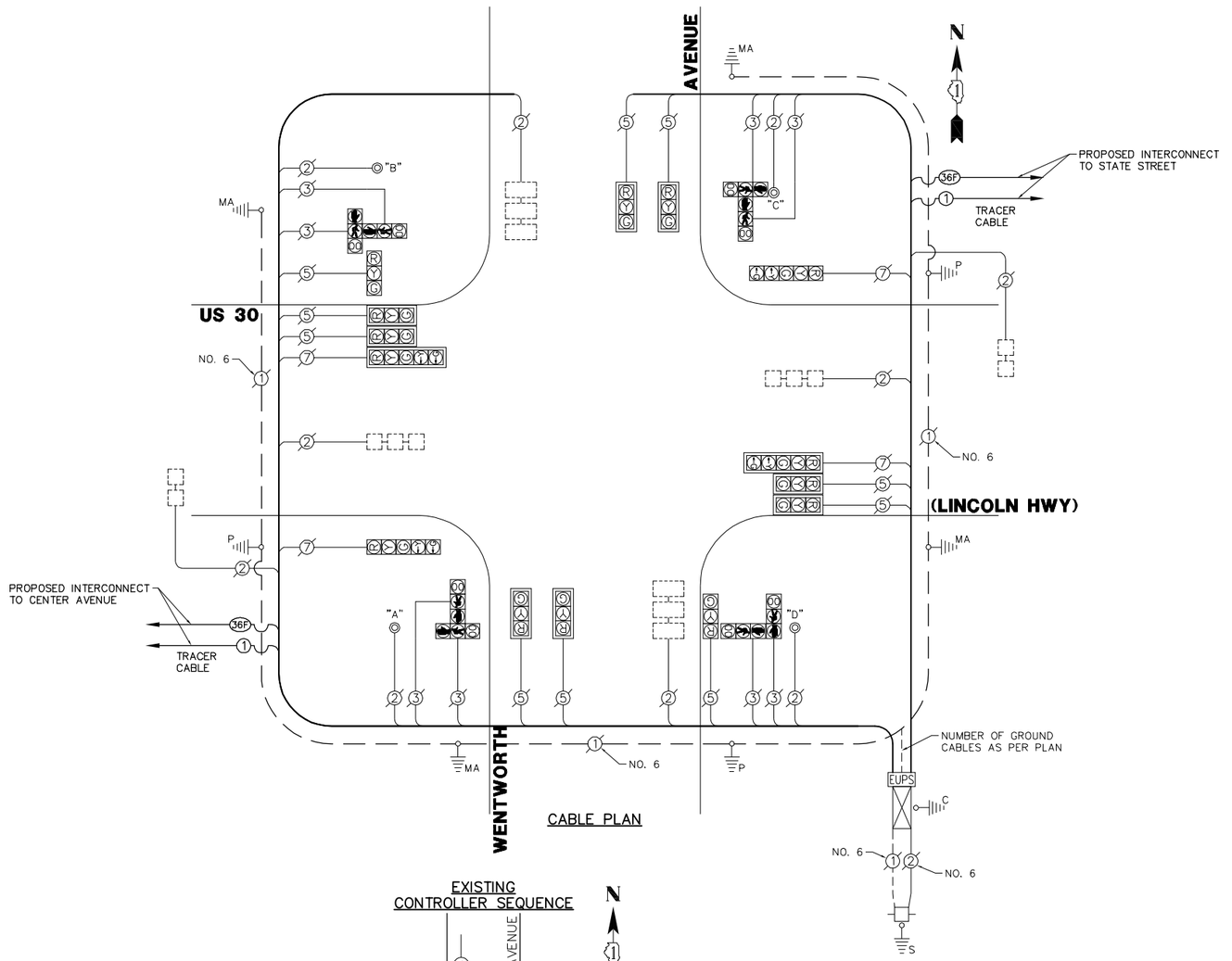
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

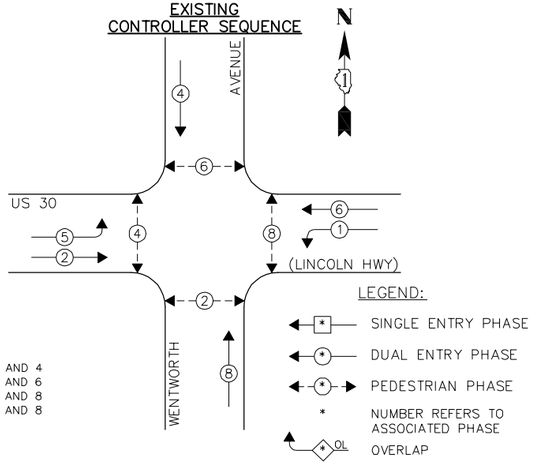
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	32
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES

U.S. 30 (LINCOLN HWY) AT WENTWORTH AVENUE

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	1	EACH	MODIFY EXISTING CONTROLLER





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	18	135	17	0.50	153.00
SIGNAL (YELLOW)	18	135	25	0.25	112.50
SIGNAL (GREEN)	18	135	15	0.25	67.50
ARROW	8	135	12	0.10	9.60
PED. SIGNAL	8	90	25	1.00	200.00
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	–	84		0.05	–
	–	–			–
	–	–			–
	–	–			–
FLASHER	–	–		0.50	–
				TOTAL =	642.60

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

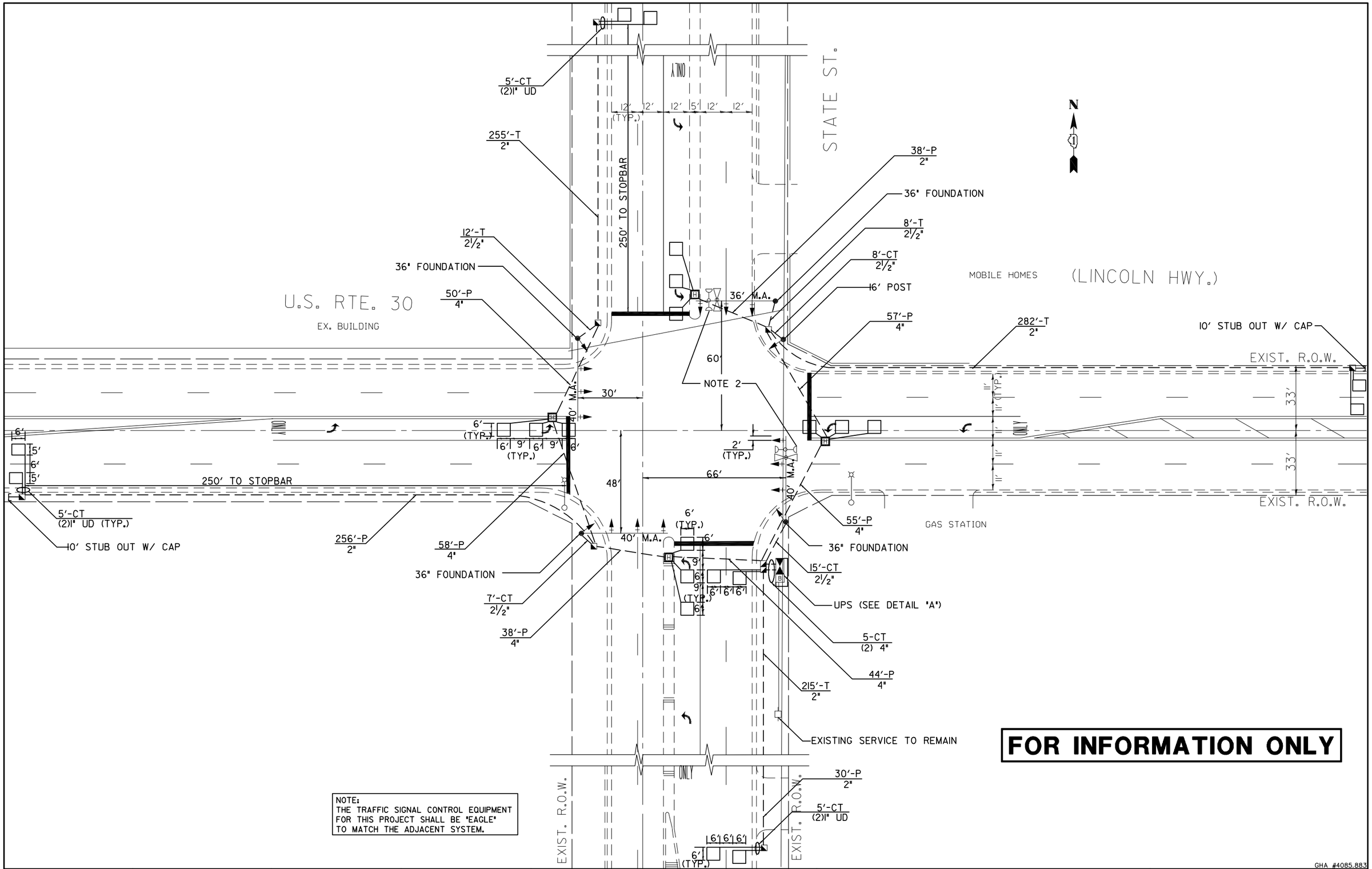
PUSH BUTTON NOTES:

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES, CABLE PLAN AND PHASE DESIGNATION DIAGRAM US 30 (LINCOLN HWY) AT WENTWORTH AVENUE
		DRAWN - –	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -		
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	33
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



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

FOR INFORMATION ONLY

GHA #4085.883

FILE NAME = 4085.883-intersections.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - -	REVISED -
		DRAWN - -	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - -	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
U.S. 30 (LINCOLN HWY) AT STATE STREET
(FOR INFORMATION ONLY)

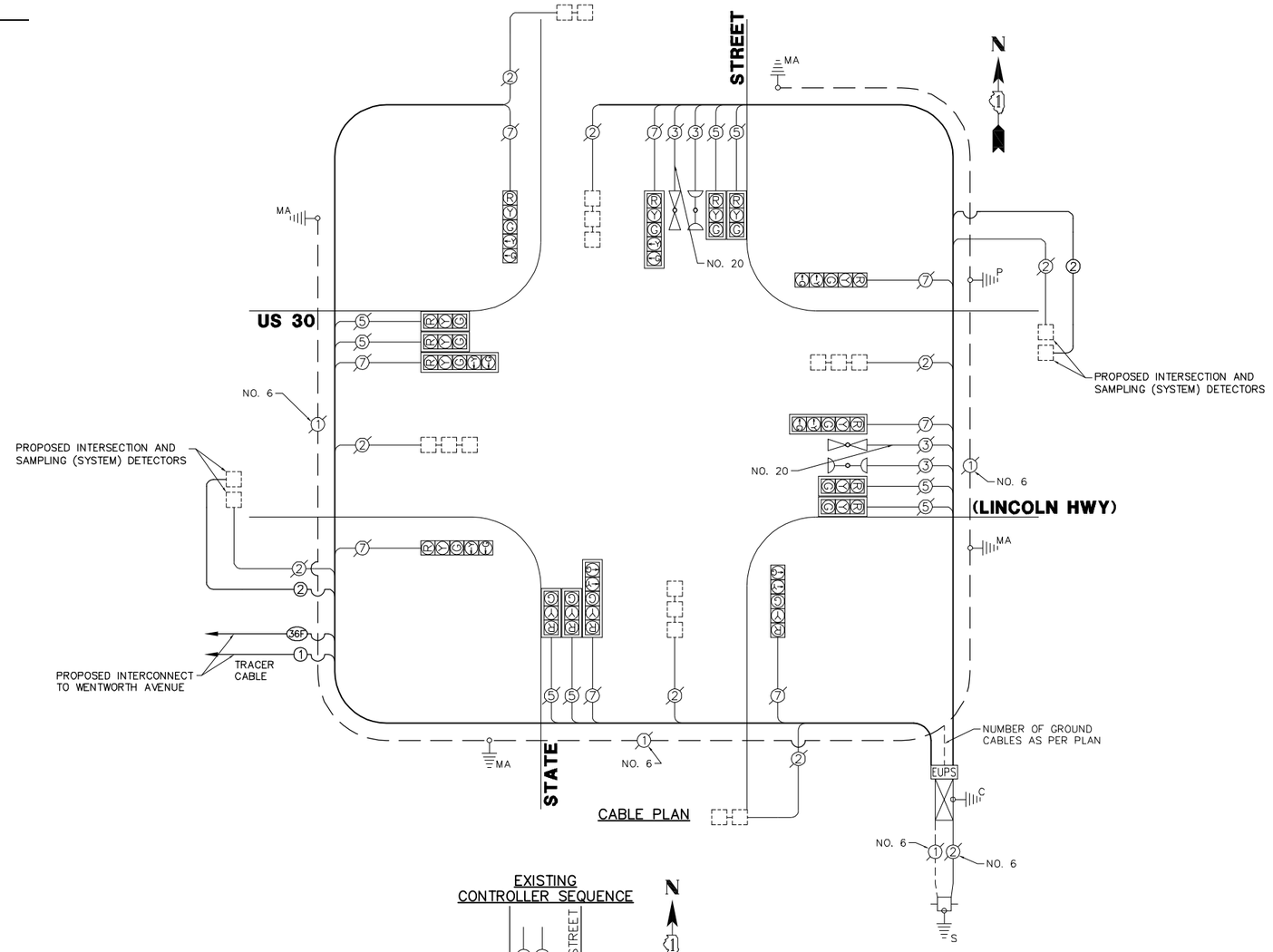
SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

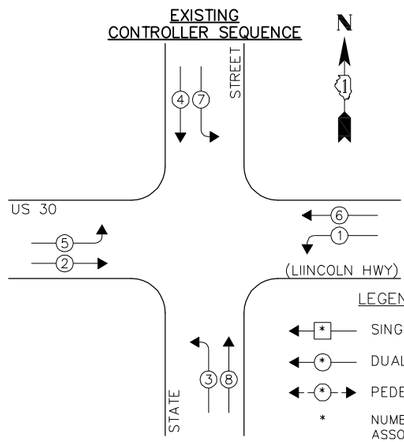
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	34
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

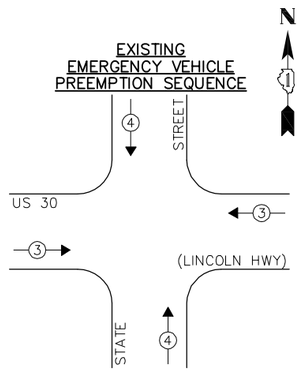
SCHEDULE OF QUANTITIES

U.S. 30 (LINCOLN HWY) AT STATE STREET

NO.	QUANT.	UNIT	
1.	0.10	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.05	L SUM	MOBILIZATION
3.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.05	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8.	1	EACH	TRANSCEIVER - FIBER OPTIC
9.	816	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
10.	2	EACH	INDUCTIVE LOOP DETECTOR
11.	1	EACH	MODIFY EXISTING CONTROLLER







EXISTING EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
		WATTAGE			
TYPE	NO. LAMPS	INCAND.	L.E.D.	% OPERATION	
SIGNAL (RED)	16	135	17	0.50	136.00
SIGNAL (YELLOW)	16	135	25	0.25	100.00
SIGNAL (GREEN)	16	135	15	0.25	60.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL		90	25	1.00	
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
				TOTAL =	415.20

ENERGY COSTS – BILLED TO: –
(ADDRESS) –
(ADDRESS) –
ENERGY SUPPLY – CONTACT: –
PHONE: 708-410-5069
COMPANY: COM. EDISON

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

GHA #4085.883

FILE NAME = 4085.883-Cable.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - –	REVISED -
		DRAWN - –	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - –	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

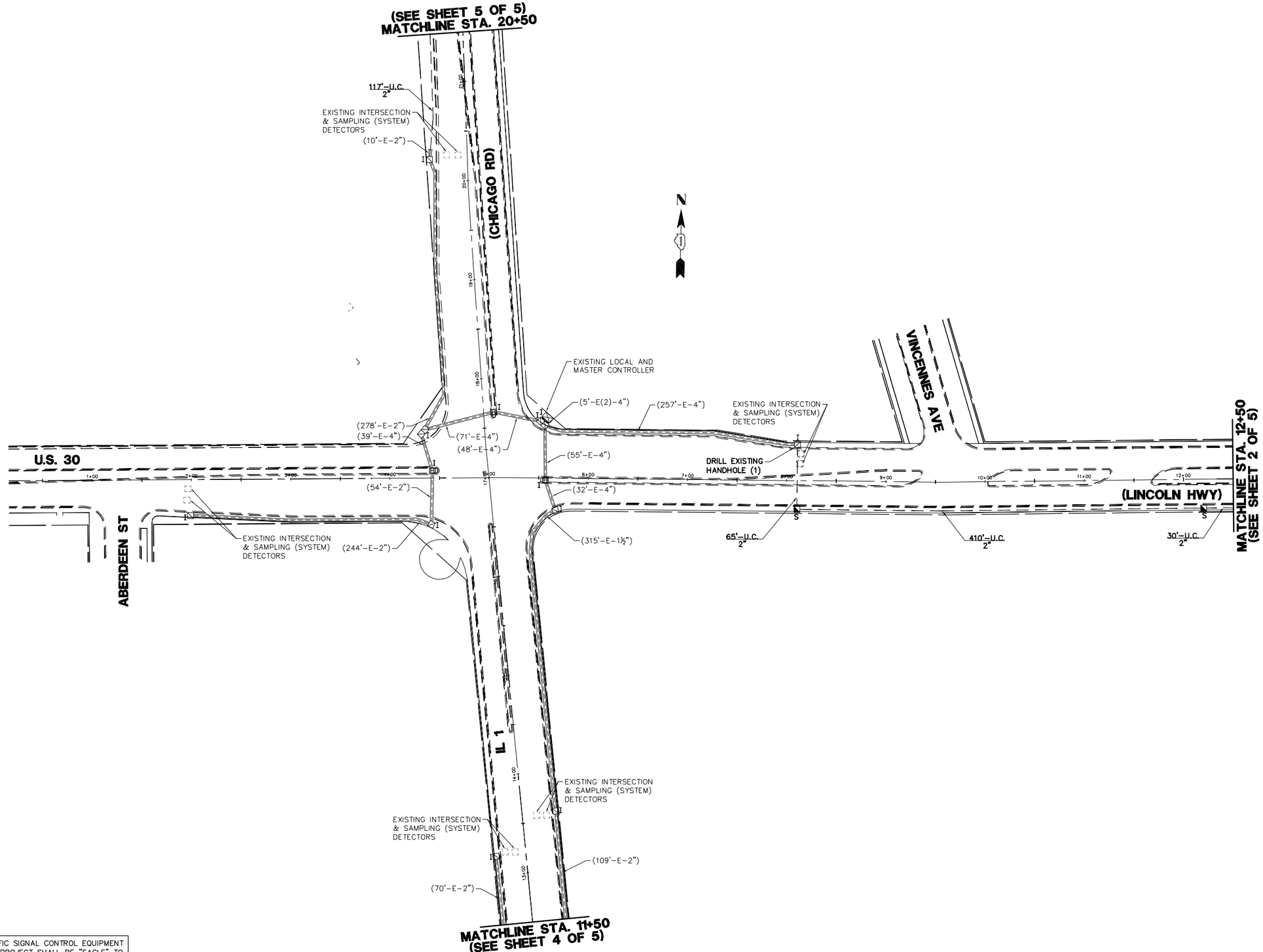
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, & EMERGENCY VEHICLE PREEMTION SEQUENCE
US 30 (LINCOLN HWY) AT STATE STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	35
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.



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

GHA #4085.883

FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 1 OF 5)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	36
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			

GRAPHIC SCALE
50 0 25 50
(IN FEET)
1 inch = 50 ft.

(SEE BELOW LEFT)
MATCHLINE STA. 4+00

N

STREET

OTTO

PARK

AVENUE

(152'-E-2")

(41'-E-4")

(268'-E-2")

(98'-E-4")

(10'-E-2")

140'-U.C.
2"

(57'-E-4")

67'-U.C.
2"

(SEE SHEET 1 OF 5)
MATCHLINE STA. 12+50

U.S. 30

13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00 25+00 26

(LINCOLN HWY)

MATCHLINE STA. 26+00
(SEE SHEET 3 OF 5)

454'-U.C.
2"

(10'-E-2")

(256'-E-2")

(5'-E(2)-4")

BLVD

AVENUE

HALSTED

WEST END

(10'-E-2")

(124'-E-2")

DRILL EXISTING
HANDHOLE (1)

STREET

STREET

DRILL EXISTING
HANDHOLE (1)

(5'-E(2)-5")

(77'-E-4")

IP

300'-U.C.
2"

(148'-E-2")

(10'-E-2")

(SEE ABOVE CENTER)
MATCHLINE STA. 4+00

HALSTED

5+00 6+00 7+00 8+00 9+00 10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

(45'-E-3")

DRILL EXISTING
HANDHOLE (1)

330'-U.C.
2"

PROPOSED INTERSECTION AND
SAMPLING (SYSTEM) DETECTORS

(276'-E-2")

PROPOSED INTERSECTION AND
SAMPLING (SYSTEM) DETECTORS

(50'-E-3")

(72'-E-4")

(245'-E-2")

IP

(5'-E(2)-4")

STREET

13TH

12TH

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

GHA #4085.883

FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 2 OF 5)

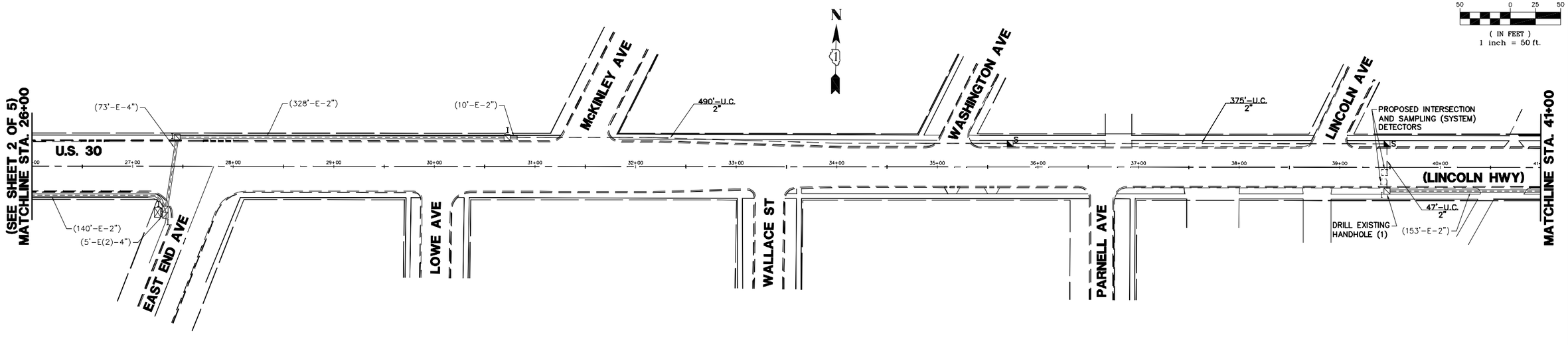
SCALE 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	37
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.



CONSTRUCTION NOTES:

(A) 2" CONDUIT SHALL BE INSTALLED A MINIMUM 5.0 FEET BELOW EXISTING RAILROAD EXTENDING A MINIMUM 30 FEET EACH SIDE OF TRACK.

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

GHA #4085.883

FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 3 OF 5)

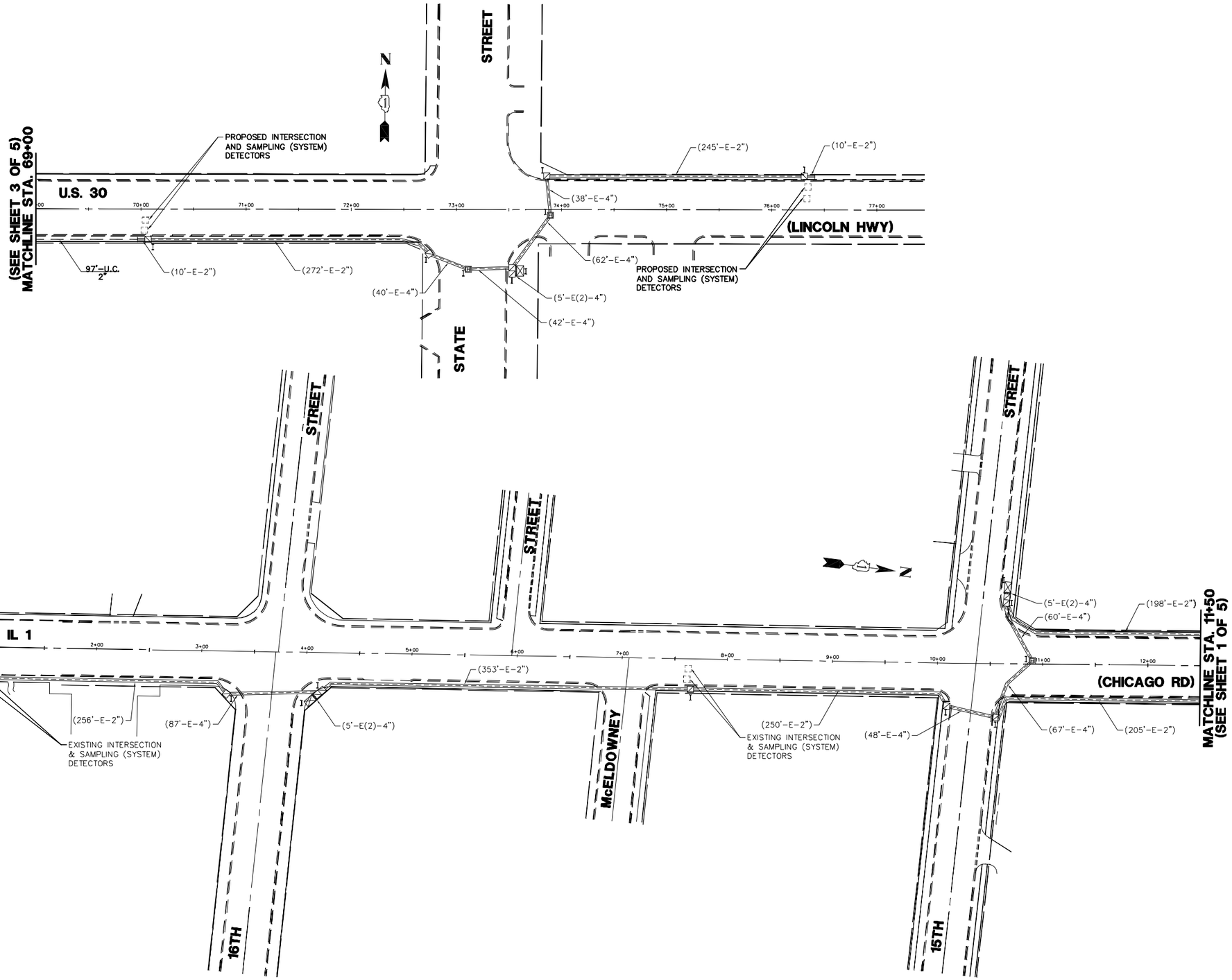
SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	38
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.



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

GHA #4085.883

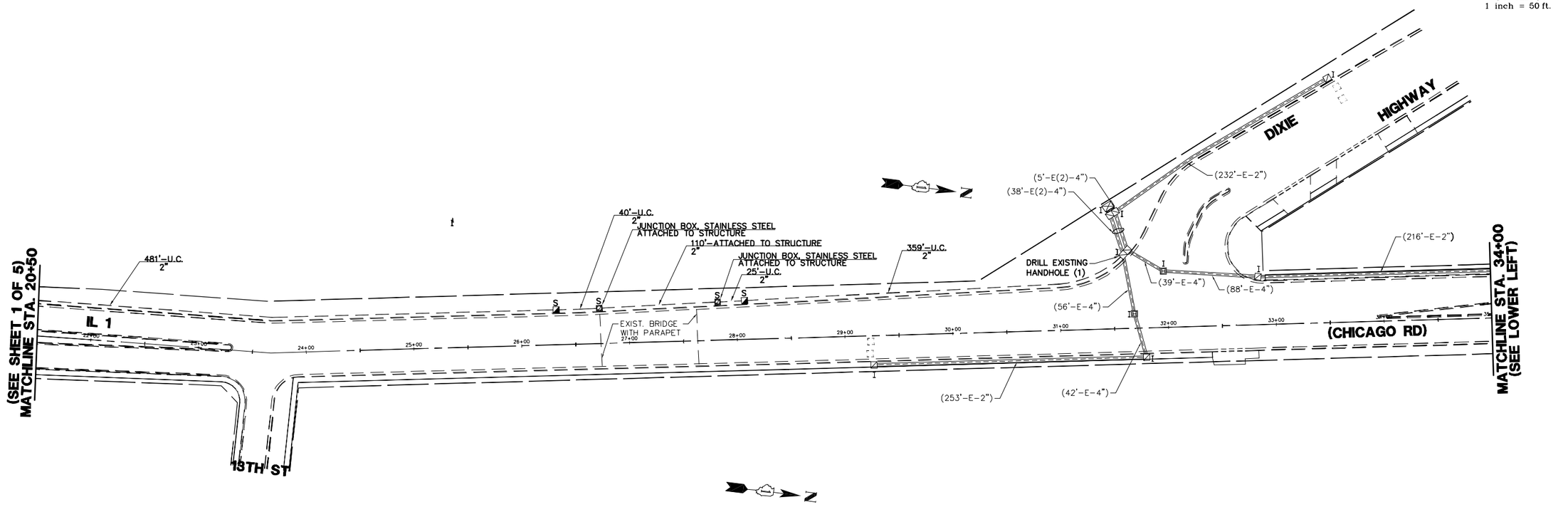
FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INTERCONNECT PLAN (SHEET 4 OF 5)
		DRAWN - ZCW	REVISED -		
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: 1"=50' SHEET NO. OF SHEETS STA. TO STA.
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -		

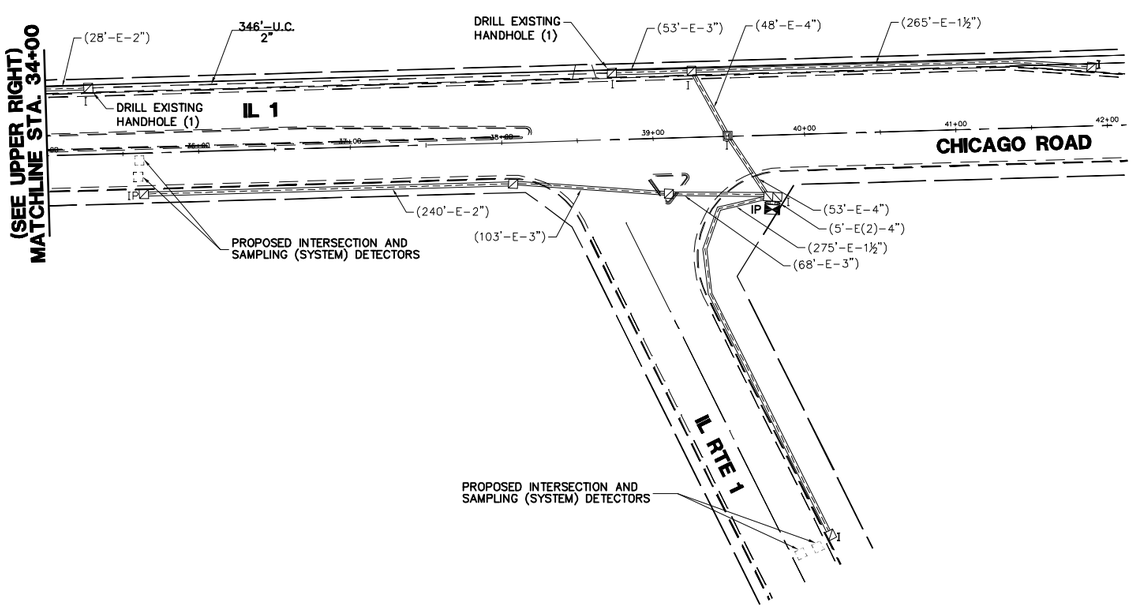
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	2012-038TS	COOK	43	39
		CONTRACT #:	60T86	
	ILLINOIS FED. AID PROJECT			

GRAPHIC SCALE

50 0 25 50

(IN FEET)
1 inch = 50 ft.





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

GHA #4085.883

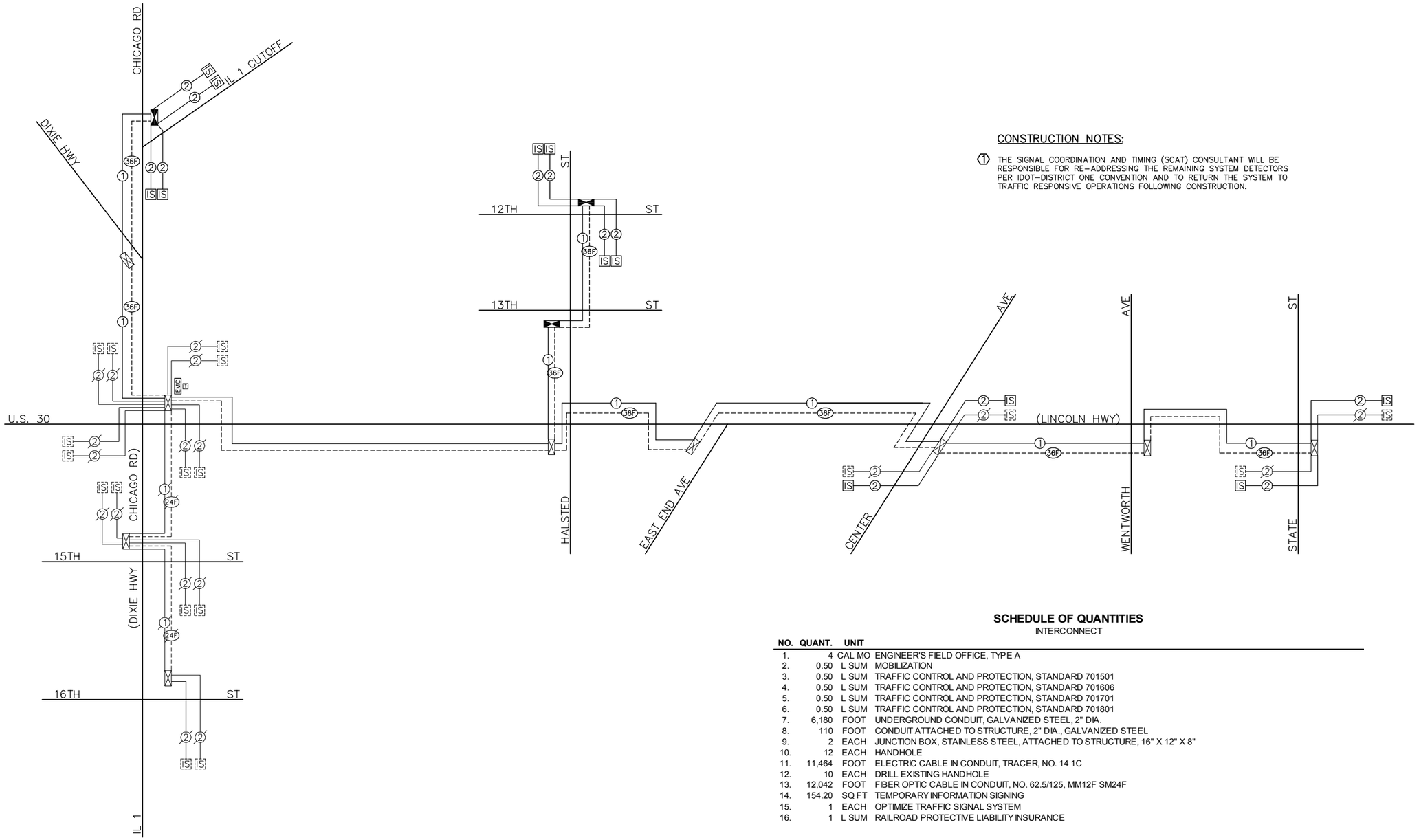
FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
(SHEET 5 OF 5)

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	40
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



CONSTRUCTION NOTES:

① THE SIGNAL COORDINATION AND TIMING (SCAT) CONSULTANT WILL BE RESPONSIBLE FOR RE-ADDRESSING THE REMAINING SYSTEM DETECTORS PER IDOT-DISTRICT ONE CONVENTION AND TO RETURN THE SYSTEM TO TRAFFIC RESPONSIVE OPERATIONS FOLLOWING CONSTRUCTION.

SCHEDULE OF QUANTITIES

INTERCONNECT

NO.	QUANT.	UNIT	
1.	4	CAL MO	ENGINEER'S FIELD OFFICE, TYPE A
2.	0.50	L SUM	MOBILIZATION
3.	0.50	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
4.	0.50	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606
5.	0.50	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
6.	0.50	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
7.	6,180	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
8.	110	FOOT	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL
9.	2	EACH	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 16" X 12" X 8"
10.	12	EACH	HANDHOLE
11.	11,464	FOOT	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C
12.	10	EACH	DRILL EXISTING HANDHOLE
13.	12,042	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
14.	154.20	SQ FT	TEMPORARY INFORMATION SIGNING
15.	1	EACH	OPTIMIZE TRAFFIC SIGNAL SYSTEM
16.	1	L SUM	RAILROAD PROTECTIVE LIABILITY INSURANCE

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

GHA #4085.883

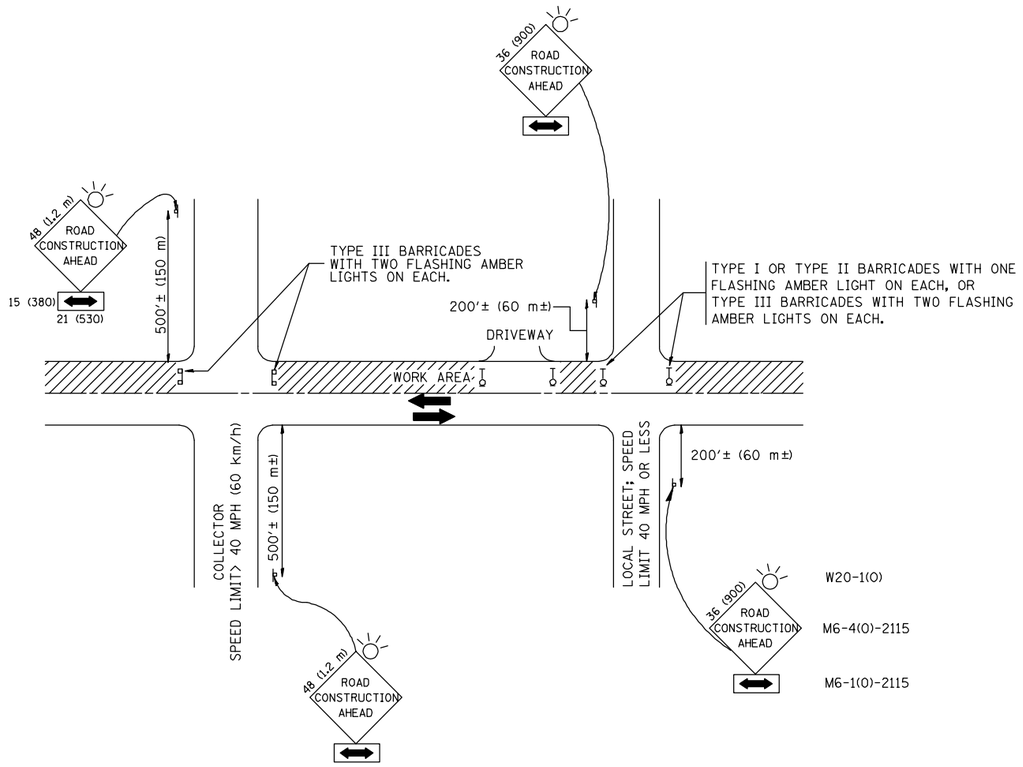
FILE NAME = 4085.883-TR1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - JRD	REVISED -
		DRAWN - ZCW	REVISED -
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -
	PLOT DATE = 6/28/2012	DATE - 6/28/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC - U.S. RTE 30 (LINCOLN HWY)
IL RTE 1 (CHICAGO RD) TO STATE STREET

SCALE: N.A. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	41
		CONTRACT #:	60T86	
		ILLINOIS FED. AID PROJECT		



NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

GHA #4085.883

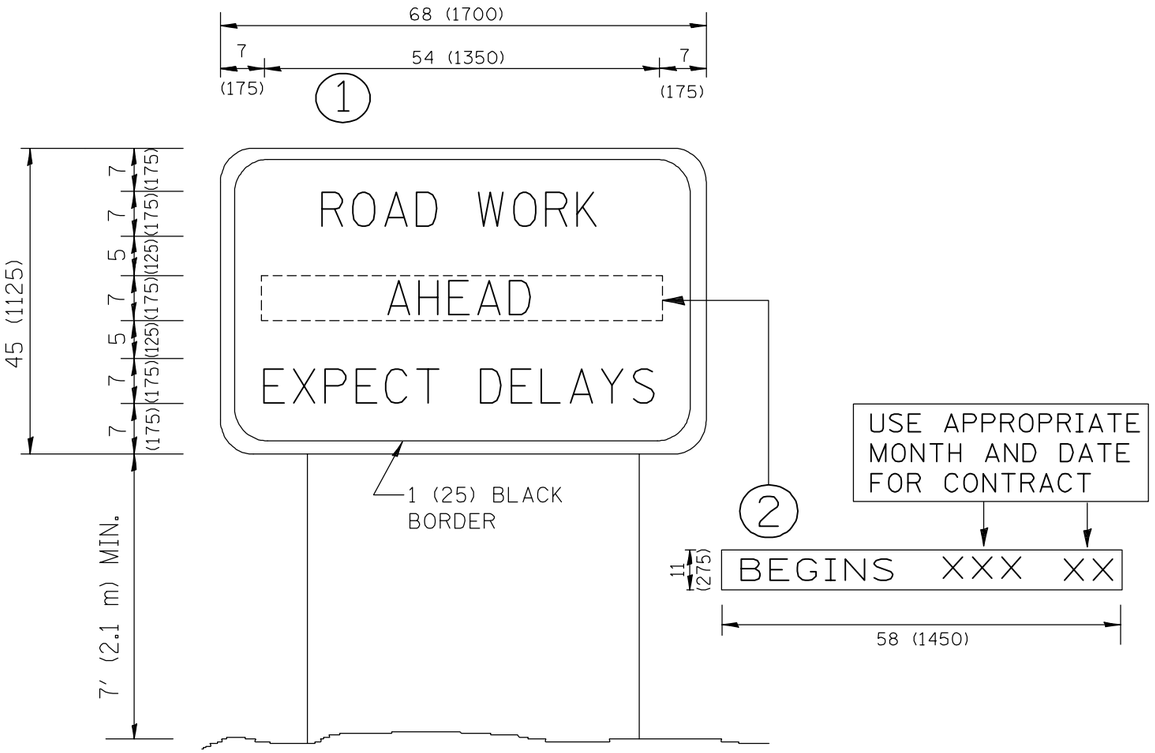
FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 6/28/2012	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	42
	TC-10	CONTRACT #:	60T86	
FED. ROAD DIST. NO. 1	ILLINOIS	FED. 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.

GHA #4085.883

FILE NAME = 4085.883-DT1.dwg	USER NAME = ZACH WALLSTEN	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 1" = .0833'	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 6/28/2012	DATE -	REVISED - C. JUCIUS 03-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	2012-038TS	COOK	43	43
	TC-22	CONTRACT #: 60T86		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		