04-26-13 LETTING ITEM 122

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

VARIOUS LOCATIONS IN CENTRAL DUPAGE COUNTY LIGHT EMITTING DIODE (LED) INSTALLATION **SECTION 2012–082TS DUPAGE COUNTY**

C-91-136-13

HIGHWAY STANDARDS

0

701006-03 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAYEMENT EDGE

701101-02 OFF-ROAD OPERATIONS MULITLANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE

701701-08 URBAN LANE CLOSURE MULTILANE INTERSECTION

701901-02 TRAFFIC CONTROL DEVICES

720001-01 SIGN PANEL MOUNTING DETAIL 720006-03 SIGN PANEL ERECTION DETAILS

857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

862001-01 UNITERRUPTABLE POWER SUPPLY (UPS)

880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

880006-01 TRAFFIC SIGNAL MOUNTING DETAILS

DUPAGE COUNTY LOCATION MAP SEE SHEET NO. 3

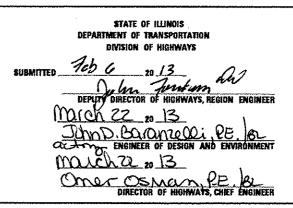
ILLINOIS CONTRACT NO. 60WOO

*88-1-87

D-91-487-12







PRINTED BY THE AUTHORITY 8619 W. Bryo Hawr Ave., Suite 602 Chicago, IL 60631-3551 OF THE STATE OF ILLINOIS

PROJECT ENGINEER: SUDUD MAHMOUD PROJECT MANAGER: DARYLE DREW

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

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

CONTRACT NO. 60W00

1-800-892-0123 OR 811

B. C. NAME

i/Projects3N12002/Designiff

INDEX OF SHEETS

COVER SHEET INDEX OF SHEETS LOCATION MAP SUMMARY OF QUANTITIES 10-15 DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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ROUTE 83 AT MIDWAY DRIVE
ROUTE 83 AT PLAINFIELD ROAD
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GENERAL NOTES:

- . CONTRACTOR SHALL REPLACE BROKEN MOUNTING BRACKETS AT ALL RETROFIT SIGNAL HEAD INTERSECTIONS OR AS DIRECTED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CORRESPONDING SIGNAL HEAD. LED, RETROFIT PAY ITEM OF THE TYPE AND NUMBER OF SIGNAL HEADS, FACES, AND SECTIONS AS SPECIFIED IN THE PLANS.
- 2. CONTRACTOR SHALL RELOCATE EXISTING SIGN PANELS FROM PAINTED POSTS THAT ARE INDICATED FOR REPLACEMENT TO A NEW POSTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL, RELOCATION AND ANY NEW MOUNTING HARDWARE NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE TRAFFIC SIGNAL POST, GALVANIZED STEEL PAY ITEM OF THE LENGTH AS SPECIFIED IN THE PLANS.
- 3. DUE TO THE PRESENCE OF A RED LIGHT RUNNING (RLR) CAMERA FOR THE BELOW LISTED LOCATIONS, CONTRACTORSHALL NOTIFY THE VILLAGE AND RLR CAMERA COMPANY PRIOR TO THE START OF CONSTRUCTION, THE VILLAGE OR THE RLR CAMERA COMPANY SHALL MAKE THE CAMERA INOPERATIVE FOR THE TIME OF CONSTRUCTION, ANY RER CAMERA EQUIPMENT THAT IS IN CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED BY ITS RESPECTIVE OWNERS PRIOR TO THE START OF CONSTRUCTION.

RLR CAMERA LOCATION: 6195 - IL ROUTE 38 AT SUMMIT AVENUE 6480 - IL ROUTE 64 AT VILLA AVENUE

VILLAGE OF VILLA PARK 20 S. ARDMORE AVENUE VILLA PARK, IL 60181-2696

REDSPEED ILLINOIS 400 EISENHOWER LANE NORTH LOMBARD, IL 60148 630-317-5734

RLR CAMERA LOCATION: 565 - IL ROUTE 83 AT 63RD STREET 570 - IL ROUTE 83 AT 75TH STREET 615 - IL ROUTE 83 AT MIDWAY DRIVE

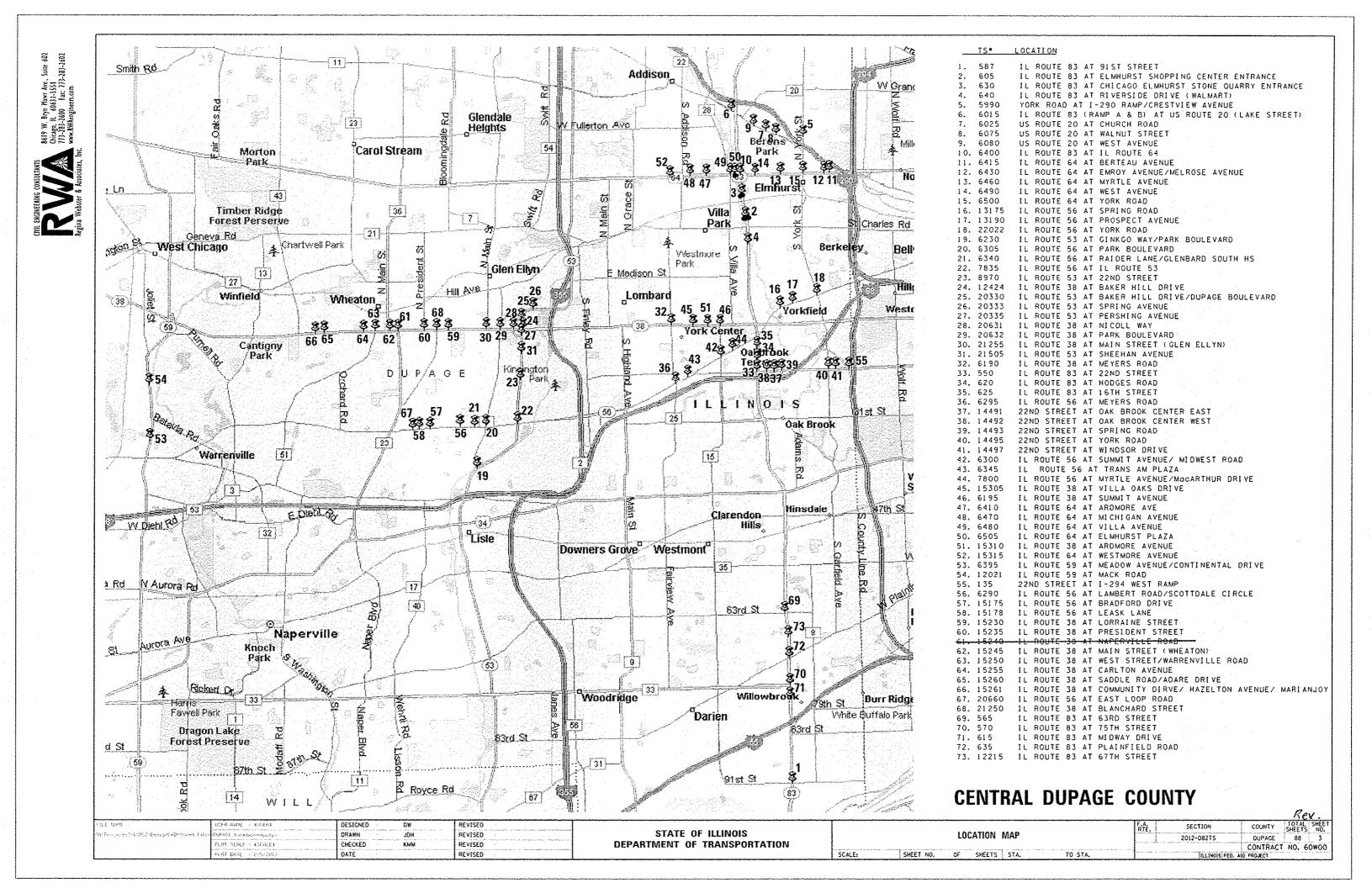
VILLAGE OF WILLOWBROOK 7760 OUINCY ST. WILLOWBROOK, IL 60527 630-323-8215

AMERICAN TRAFFIC SOLUTIONS 7681 E. GRAY ROAD SCOTTSDALE, AZ 85260 480-596-4866

- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING BOLT PATTERN ON EXISTING FOUNDATIONS THAT ARE SPECIFIED TO BE RE-USED.
- 5. ANY ADDITIONAL CABLE LENGTHS NECESSARY FOR THE PROPER INSTALLATION OF AN UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED DUE TO THE LARGER DISTANCE AWAY FROM THE CONTROLLER CABINET SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED PAY ITEM.
- 6.IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- 7. THE EXACT LOCATION OF ALL UTILITES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811. IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- 8. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

Rev.

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CON ENGINERING CONFULINTS

8619 W. Byn Haw Ave., Suite 602

Chicago, H. 60631-3551

173-283-2600 Fax; 773-283-2602

Rejna Webster & Associates, Inc.

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FITTE ENGINEERING CONSULINITY

Chicago II 6631-5551

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Regina Webster & Associates, Inc.

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 3 OF 6) SCALE: SHEET NO. OF SHEETS STA.

F.A. RTE. 2012-082TS

TO STA.

SECTION COUNTY TOTAL SHEET

312-082TS DUPAGE 88 6

CONTRACT NO. 60W00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES (SHEET 4 OF 6) SCALE: SHEET NO. OF SHEETS STA,

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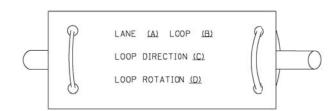
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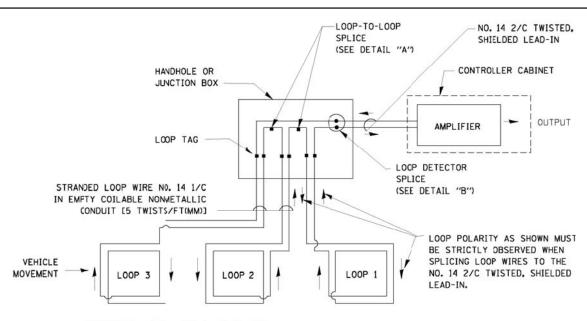
#### LOOP DETECTOR NOTES

- 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 CR 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 WARKED 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 PAYEMENT 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

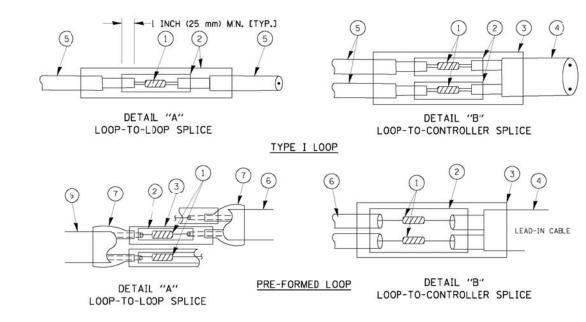


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP *1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### 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 10 THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



#### LOOP DETECTOR SPLICE

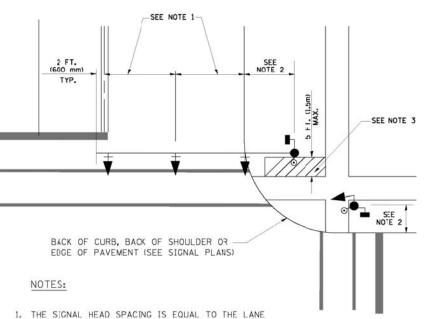
- ① WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NC. 14 2/C TWISTEC, SHIELDED CABLE.
- (5) LCOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR
  BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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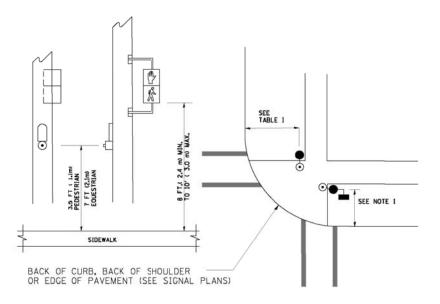
#### TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

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



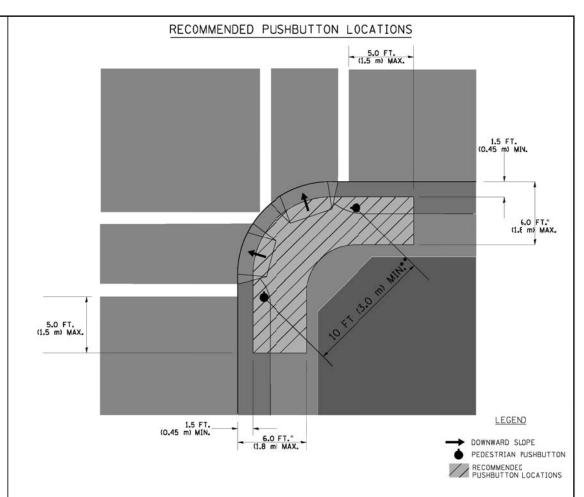
- WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- 3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- 4. THE FACE OF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



- 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 n) 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 A TACHMENTS 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

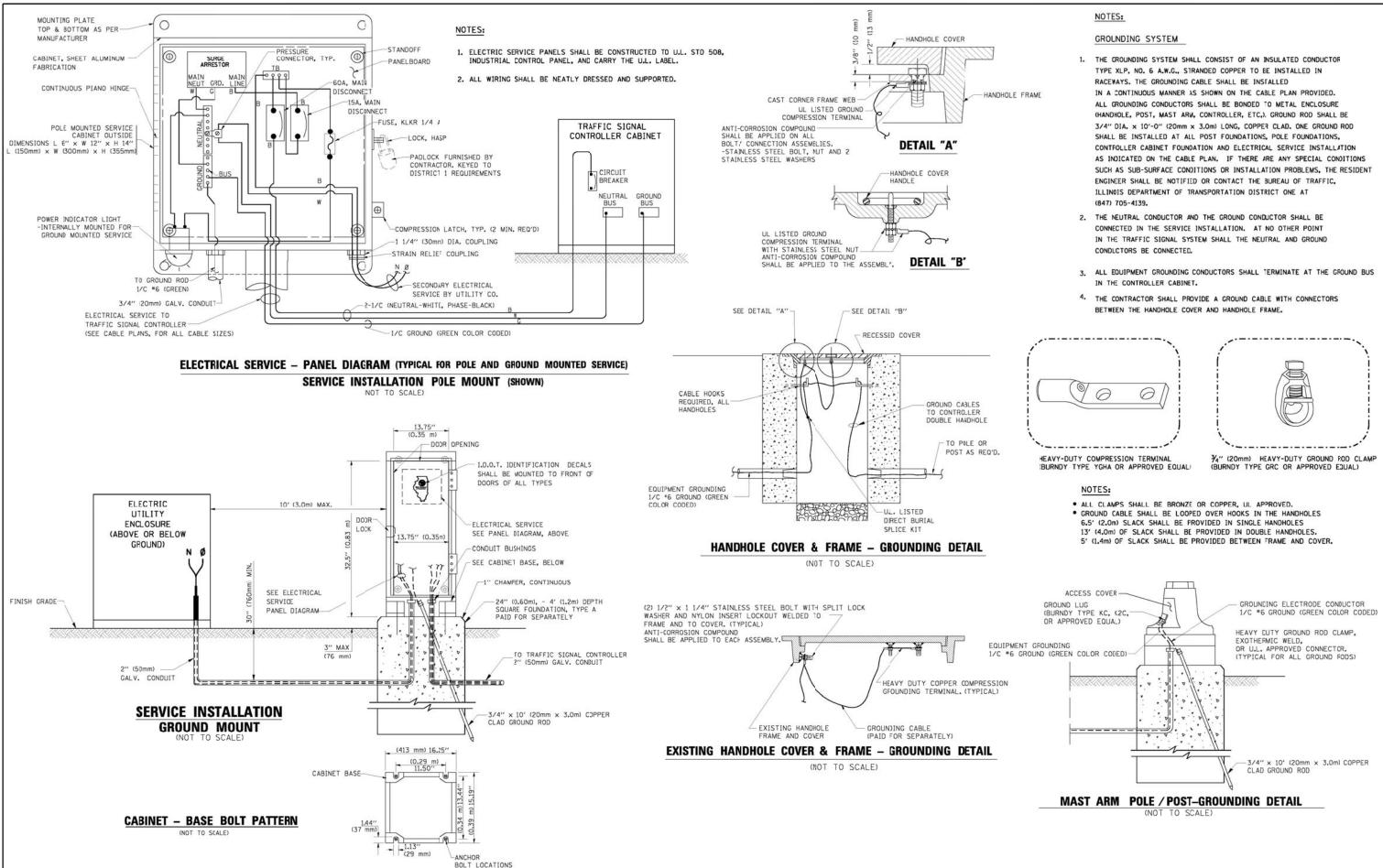
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TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	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 MCUNT	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 ARNS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

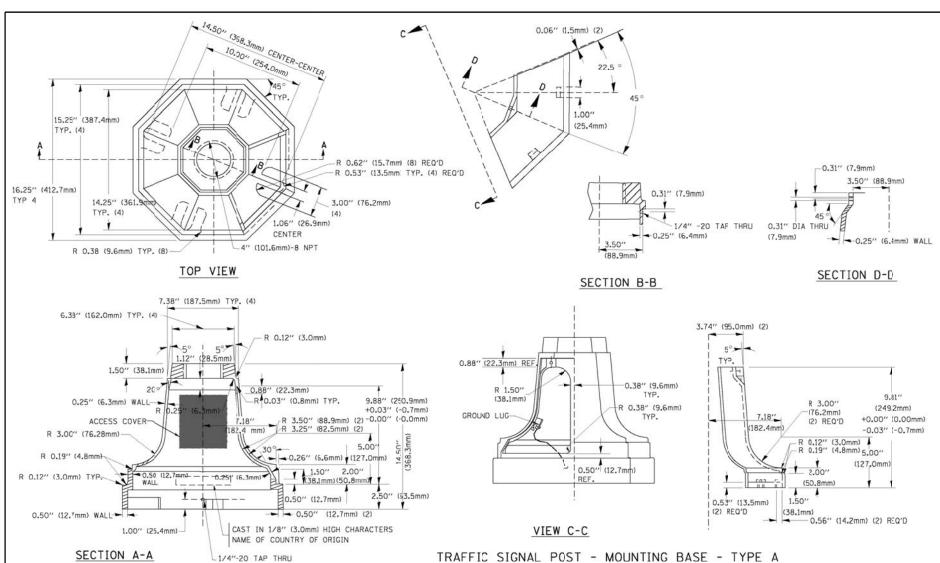
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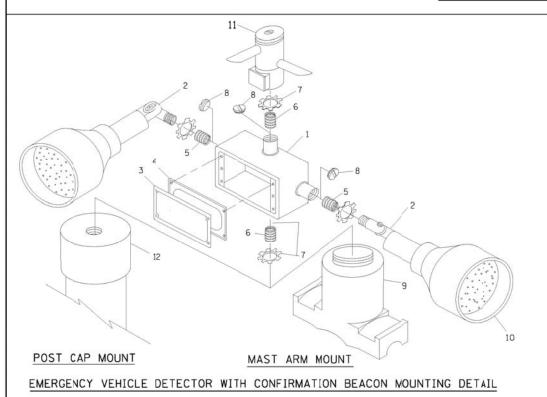




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ITEM	NO. IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4"(19 mm) CLOSE NIPPLE
7	3/4"(19 mm) LOCKNUT
8	3/4"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

#### NOTES:

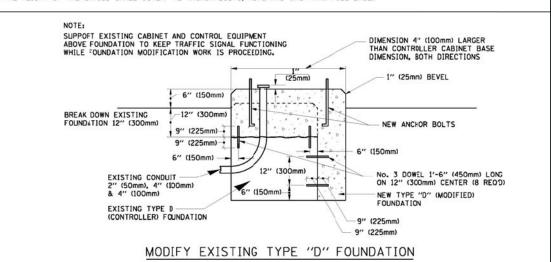
- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM *1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT ITEM *2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 3. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP CF THE CAP BY DRILLING AND TAPPING A 34"(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.

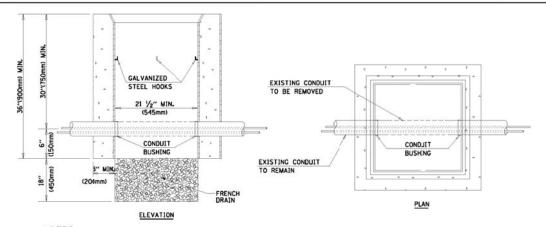
#### B-B (75mm) R0.50" 0.25 DRAIN -0.25" (6mm PORT 0.25"-- 0.31"(8mm) MATERIAL: - 0.20"(5mm) - ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

Α	В	С	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

- GIMENSION "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 REQUIRENENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NJTS AND MAST ARM POLE BASE.



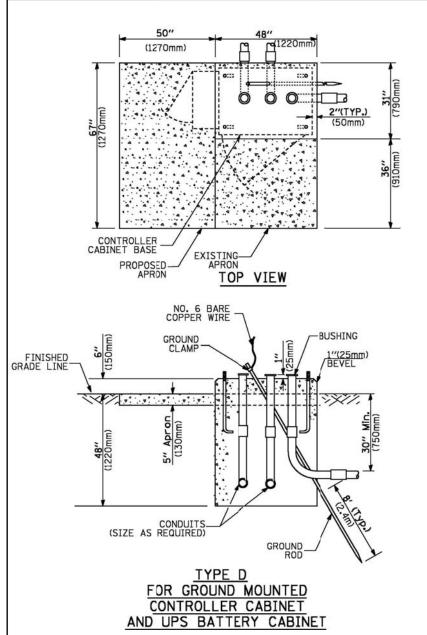


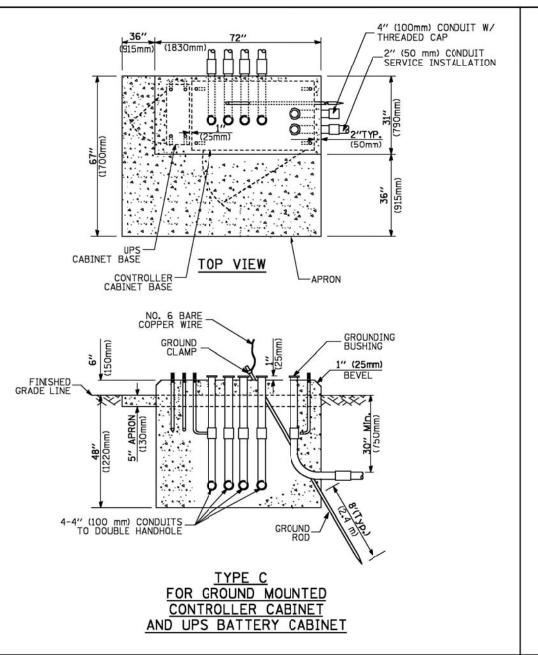
- 1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

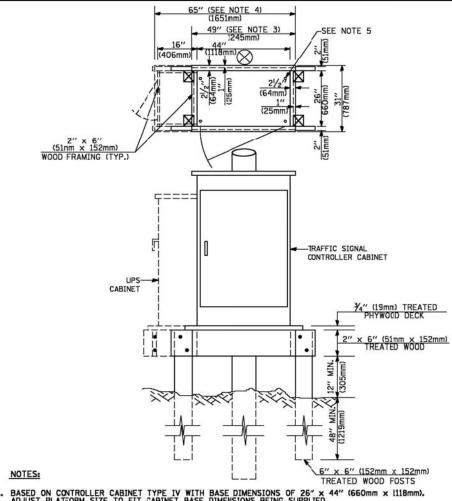
#### HANDHOLE TO INTERCEPT EXISTING CONDUIT

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- 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.
- 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

/ERTICAL 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

Wast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebors
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
30' (9.1 m) and less than 40' (12.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50 (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65 (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

#### NOTES:

- These foundation depths are for sites which have cohesive soils (clayey slit, 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 Enginee
  during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
  design if other conditions are encountered.
- 2. Combination most arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm diameter foundations.
- 4. For most arm assemblies with dual arms refer to state standard 878001.

#### DEPTH OF MAST ARM FOUNDATIONS, TYPE E

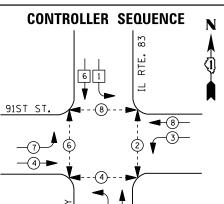
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				F.A. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
N:\Projects3\12062\DesignCAD\Sheet Files	IDOT DETAIL_5.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	DISTRICT ONE - STANDARD TRAFFIC SIGNAL DESIGN DETAILS			2012-082TS	DUPAGE	88 14	
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION			CONTRACT NO. 60W00				
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. 5 OF 6 SHEETS	STA. TO STA.		ILLINOIS FED.	AID PROJECT	

# CIVIL ENGINEERING CONSULTANTS 8619 W. Bryn Mawr Ave., Suite 602 Chicago, IL 60631-3551 773-883-3600 Fax: 773-283-2602 Regina Webster & Associates, Inc.

# TRAFFIC SIGNAL LEGEND

<u>ITEM</u>	REMOVAL	EXISTING	PROPOSED	ITEM		REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R				ICLE LIGHT DETECTOR	 R ≪✓	<u></u>	•	ELECTRIC CABLE IN CONDUIT, TRACER,			<u></u>
RAILROAD CONTROL CABINET				CONFIRMATION E		R ₀ -(1	o-()	<b>+</b>	NO. 14 1/C, UNLESS NOTED OTHERWISE			
COMMUNICATIONS CABINET	C C	E C C	СС	COM MWATTON E	SEACON	R	, ,		COAXIAL CABLE		<u> </u>	—c—
MASTER CONTROLLER	[00]	EMC	MC	HANDHOLE		\ <u>\</u> \\\					,	
MASTER MASTER CONTROLLER		[EMMC]	MMC	HEAVY DUTY HA	NDHOLE	RH	Н	H	VENDOR CABLE FOR CAMERA		—	
UNINTERRUPTIBLE POWER SUPPLY	R UPS	EUPS	UPS	DOUBLE HANDHOI	LE	R			COPPER INTERCONNECT CABLE,		<u></u>	_6_
SERVICE INSTALLATION,	-□ ^R	- <u>-</u> -	- <b>■</b> P	JUNCTION BOX		R		0	NO. 18 3 PAIR TWISTED, SHIELDED  FIBER OPTIC CABLE		,	
(P) POLE OR (G) GROUND MOUNT	-	-	_	GALVANIZED STE					NO. 62.5/125, MM12F		<u>—12F</u> —	
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P T	P	TEMPORARY SPA	N WIRE, TETHER WIRE,	R			FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		<u>—24F</u> —	<del></del> 24F)
STEEL MAST ARM ASSEMBLY AND POLE	к 	0	•	AND CABLE					FIBER OPTIC CABLE NO. 62.5/125.			
ALUMINUM MAST ARM ASSEMBLY AND POLE	R	0		COMMON TRENCH				CT	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		<del>-</del> >-	<del>-</del>
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	RO-X	0 <del>-</del> ¤	• ×	SYSTEM ITEM	ETALLIC CONDUIT (EMPTY)		S	CNC S	GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM,		c _ı	c _{ill} —•
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTA		PI	INTERSECTION I	TEM		I	IP	OR (S) SERVICE		'II	'II  <del></del>
SIGNAL POST	R _O	0	•	REMOVE ITEM		R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
TEMPORARY WOOD POLE (CLASS 5 OR	R⊗	$\otimes$	<b>©</b>	RELOCATE ITEM		RL						
BETTER) 45 FOOT (13.7m) MINIMUM GUY WIRE	₩ 	<b>&gt;</b>	<b>&gt;</b>	ABANDON ITEM	AFFIC SIGNAL SECTION	А	R	R	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	ORMF		
SIGNAL HEAD	R			12 (30011111) TK	AFFIC SIGNAL SECTION			IN.	ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL HEAD CONSTRUCTION STAGES	->	>	-		D WITH 8" (200mm) EEN TRAFFIC SIGNAL FACE		R					
(NUMBERS INDICATE THE CONSTRUCTION ST	TAGE)		<b>→</b> ²	TEEE ON THIS ON	LEN TIME TO STORME THE				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND	RMF O-X		
SIGNAL HEAD WITH BACKPLATE	+ R	+ >	+-				(R) (Y)	R	FOUNDATION TO BE REMOVED			
SIGNAL HEAD OPTICALLY PROGRAMMED	R — <mark>▷</mark> ~"P"	—⊳′′p′′	<b>→</b> "P"	SIGNAL FACE			(C)	G ◆Y	SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF O		
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R ○-[⊃"F"	O-t>"F"	● <b>→</b> "F"				<b>◆ G</b>	<b>←</b> Y <b>←</b> G	INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
PEDESTRIAN SIGNAL HEAD	R -[]	-0	-1				R	R	SAMPLING (SYSTEM) DETECTOR		S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R (1)	<b>©</b>	<b>©</b>	SIGNAL FACE WI	TH BACKPLATE. PROGRAMMED HEAD		C	G 4 Y	EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	ID.	P	
ACCESSIBLE PEDESTRIAN PUSHBUTTON DET	ECTOR @ APS	<pre> @APS</pre>	APS				(₽)	<b>←</b> Y <b>←</b> G	EXISTING PREFORMED INTERSECTION LOOP DETECTOR	ir.	<u> </u>	
ILLUMINATED SIGN	R		lacksquare					"P"	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTO	R	[PP]	
"NO LEFT TURN"				12" (300mm) PEI WALK/DON'T WAL	DESTRIAN SIGNAL HEAD LK SYMBOL		OW W		PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
ILLUMINATED SIGN "NO RIGHT TURN"	R				DESTRIAN SIGNAL HEAD				PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS PS
DETECTOR LOOP, TYPE I		[2]			SYMBOL, OUTLINED				THE SAME SAME ELLO COLOTER DETECTION		1, 3	1, 1
PREFORMED DETECTOR LOOP		''   P	P	12" (300mm) PEI	DESTRIAN SIGNAL HEAD SYMBOL, SOLID		<b>(</b>	*	RAILROAD	<b>SYMBO</b>	LS	
MICROWAVE VEHICLE SENSOR	R [M]1	[ <u>M</u> ]1	₩•		NAL HEAD, INTERNATIONAL			₽ C		J. 11120		
	_	, and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	_		COUNTDOWN TIMER			<b>∱</b> D			EXISTING	<u>PROPOSED</u>
VIDEO DETECTION CAMERA	R V D	(V)1	<b>()</b> •	RADIO INTERCON	NECT	## <del>*</del> O	##+	<del>   </del>   ••	RAILROAD CONTROL CABINET			R➤€R
VIDEO DETECTION ZONE				RADIO REPEATER	₹	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	$\Xi$		X <del>OX X</del>
PAN, TILT, ZOOM CAMERA	R P <b>i</b>	PM	P		R OF CONDUCTORS, ELECTRIC		$\sim$		FLASHING SIGNAL		$\times \Theta \times$	<del>X⊖X</del>
WIRELESS DETECTOR SENSOR	RW	(W)	W		JNLESS NOTED OTHERWISE, LOOP CABLE TO BE SHIELDED		(5)		CROSSING GATE		$\times \circ \times \rightarrow$	<del>***</del>
WIRELESS ACCESS POINT	R			GROUND CABLE			1		CROSSBUCK		*	><
FILE NAME = USER NAME = \$U		DESIGNED - DW	REVISED -						1	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files   IDOT DETAIL_6.dgr PLOT SCALE = \$S		DRAWN - JDH CHECKED - KMM	REVISED -		STATE DEPARTMENT (	OF ILLINOIS OF TRANSPO		DI	STRICT ONE – STANDARD TRAFFIC SIGNAL DESIGN DETAI		2012-082TS	DUPAGE 88 15 CONTRACT NO. 60WOO
PLOT DATE = 2/		DATE -	REVISED					SCALE: N.	T.S. SHEET NO. 6 OF 6 SHEETS STA. TO STA.		ILL INOIS FE	D. AID PROJECT



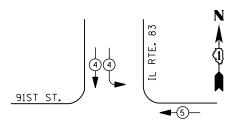


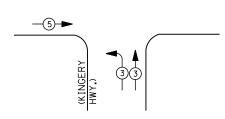
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM

5 2





ENERGY COSTS-

ENERGY SUPPLY -

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4	5					
MOVEMENT	<b>-</b>	<b> </b>	<del></del>					

	1. D. O. I.											
	TRAFFIC S	I GNAL I	NSTALLA	TION								
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS								
TYPE	NO. LAMPS	NO. LAMPS WATTAGE % OPERATIONS										
		INCAND. LED			WATTAGE							
SIGNAL (RED)	18	1 35	17	0.50	153							
(YELLOW)	18	1 35	25	0.25	113							
( GREEN)	18	1 35	15	0.25	68							
ARROW	8	1 35	12	0.10	10							
PED. SIGNAL	8	90	25	1.00	200							
CONTROLLER	1	100	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	-	1.00								
FLASHER LED												
				TOTAL =	644							

BILLED TO: IDOT DISTRICT 1

CONTACT ILYAS MOHIUDDIN

708-235-2692

PHONE

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

COMMONWEALTH EDISON

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

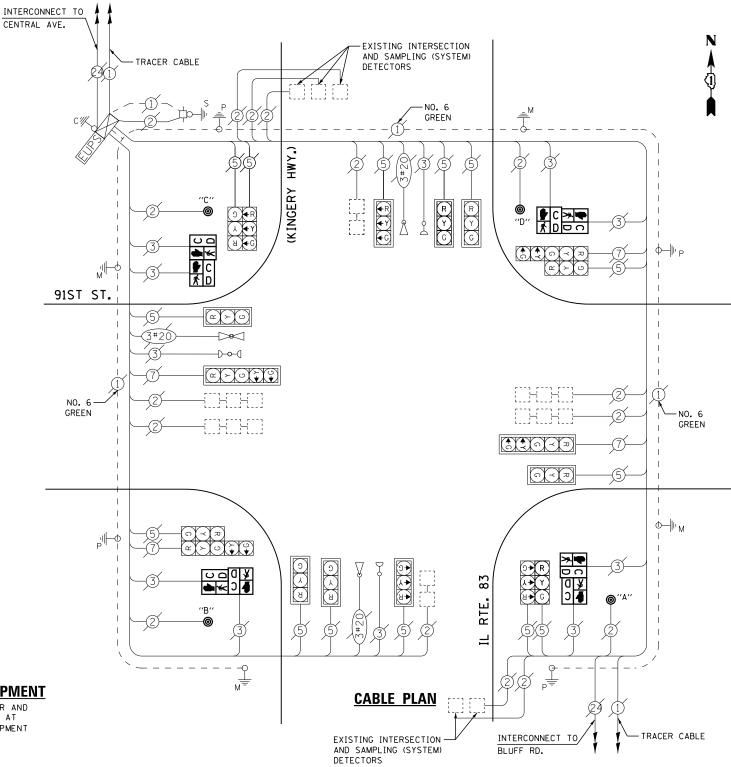
PEDESTRIAN SIGNAL HEAD FACH PEDESTRIAN PUSH-BUTTON EACH

# **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

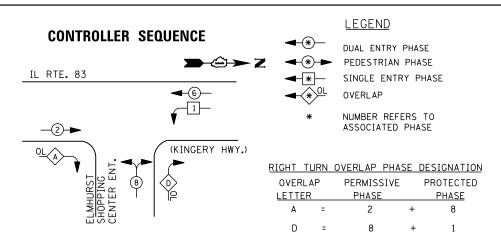
TS# 587 DOWNERS GROVE TWP

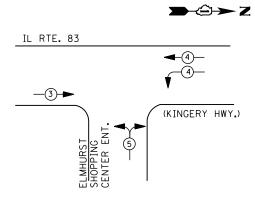
FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ IL ROUTE 83 AT 91ST STREET SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE DW SECTION COUNTY STATE OF ILLINOIS N:\Projects3\12062\DesignCAD\Sheet Files 587_CAB_DUPAGE.dgn DRAWN JDH REVISED DUPAGE 88 16 2012-082TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60W00 SCALE: N.T.S. SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = 2/5/2013



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







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGEN	NCY VEHICL	E PREEMPT	ORS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	-	-	<b>†</b>

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS WATTAGE % OPERATIONS TOTAL										
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	15	1 35	17	0.50	128						
(YELLOW)	15	1 35	25	0.25	94						
( GREEN)	15	1 35	15	0.25	57						
ARROW	4	1 35	12	0.10	5						
PED. SIGNAL	i	90	25	1.00							
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	384						

209 N. YORK STREET
ELMHURST, IL 60126
ENERGY SUPPLY - CONTACT JOE STACHO
PHONE 630-424-5704

ENERGY COSTS-

BILLED TO: CITY OF ELMHURST

COMMONWEALTH EDISON

# −NO. 6 GREEN **→**②→ Z R ←Y ←G C ≺ Z Œ ≻ U ر ا کا جا ت IL RTE. 83 (KINGERY HWY.) ت ≺ ∞ ∥ດ∣∢∣⊅⊩ ດ **∢** ສ (C) < (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) (C) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < (D) < TRACER CABLE TRACER CABLE -R Y÷ G÷ **ELMHURST SHOPPING** CENTER ENT.

#### **CABLE PLAN**

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

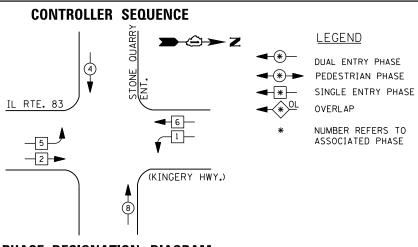
#### SCHEDULE OF QUANTITIES

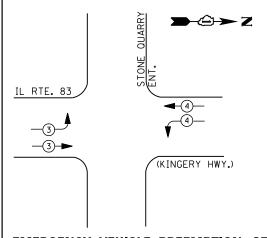
1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH UNINTERPRIBLE POWER SUPPLY, SPECIAL 1 FACH SIGNAL WEAD AND A SECTION ASSESTION OF SECTION BRACKET MOUNTED BETPOLIT	<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
	1	EACH	MODIFY EXISTING CONTROLLER CABINET
1 FACH SIGNAL HEAD LED 2 FACE 1 3 SECTION 1 E SECTION DEACHET MOUNTED DETECTIO	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
I EACH SIGNAL HEAD, LED, Z-FACE, I-3 SECTION, I-3 SECTION, DRACKET MOUNTED, RETROFT	1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
3 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
7 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	7	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1 EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

TS# 605 ELMHURST

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	OTATE OF HAINOID	IL ROUTE 83 AT ELMHURST SHOPPING CENTER ENTRANCE	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEET NO.
N:\Projects3\12062\DesignCAD\Sheet Files	605_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 17
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EEMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		

ENERGY SUPPLY -

1. D. O. I.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE NO. LAMPS WATTAGE % OPERATIONS TOTAL										
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	18	1 35	1 7	0.50	153					
(YELLOW)	18	1 35	25	0.25	113					
( GREEN)	18	1 35	15	0.25	68					
ARROW		1 35	12	0.10						
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ļ	1.00	1					
FLASHER LED										
TOTAL = 434										
ENERGY COSTS-	ENERGY COSTS- BILLED TO: ELMHURST STONE QUARRY									

CONTACT JOE STACHO

PHONE 630-424-5704

COMMONWEALTH EDISON

REPLACE 14 FT. PAINTED POST. RE-L	USE EXISTING					
TYPE A CONCRETE FOUNDATION.		<u>=</u> P			<b>&gt;</b>	<u>.</u>
REPLACE 15 FT. PAINTED POST. RE-L TYPE A CONCRETE FOUNDATION.	USE EXISTING					
REPLACE 16 FT. PAINTED POST. RE-UTYPE A CONCRETE FOUNDATION.	USE EXISTING	, , , , ,	OUARRY NT.			
REPLACE 18 FT. PAINTED POST. RE-L TYPE A CONCRETE FOUNDATION.	USE EXISTING		N. T.			
		Э R Д Y	ENT.		(a) > (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
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			2			
					(KINGERY HWY.)	
	NO. 6 —	5				EVICTING
	GREEN	(3#20) ≪ (1			\$\frac{1}{6} \frac{1}{2} \frac{1}{6} \frac{1}{2} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac{1}{6} \frac	-EXISTING INTERSECTION AND SAMPLING
		<u> </u>			3#20	(SYSTEM) DETECTORS
EXISTIN AND SA DETECT	NG INTERSECTION	<b>2</b> []+[]			NO. 6  GREEN	
DETECT		IL RTE. 83			(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
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TRA	ACER CABLE				(5)(5)	
	UPS	R				
	NO. 6	C C	NO. 6 — GREEN		<u>=</u> p	
			CABLE PLAN	ı		
OF QUANTITIES	<u>%</u> S				UPS SHALL BE INSTALLED ON LEFT SI CONTROLLER CABINET DUE TO PHYSICA CONSTRAINT, OR AS DIRECTED BY THE	DE OF AL ENGINEER

#### SCHEDULE OF QUANTITIES

1

4

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 3-FACE, 3-SECTION, BRACKET MOUNTED
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION 2 EACH SIGNAL HEAD, 2 - FACE, 2-3 SECTION 2 EACH SIGNAL HEAD, 3 - FACE, 3-3 SECTION 6 EACH TRAFFIC SIGNAL BACKPLATE

3 EACH SIGNAL POST

TS# 630
ELMHURST

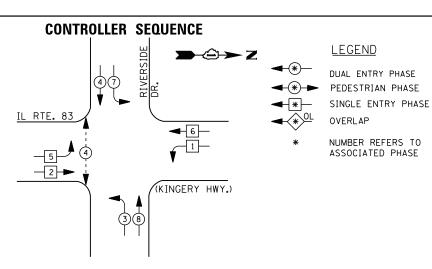
COUNTY TOTAL SHEETS NO.

DUPAGE 88 18

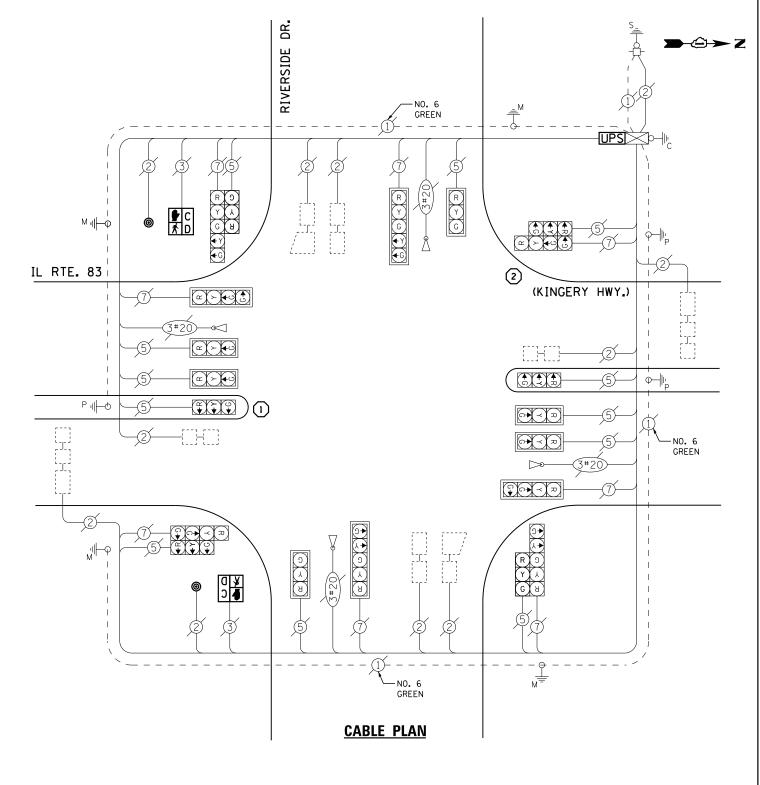
CONTRACT NO. 60WOO

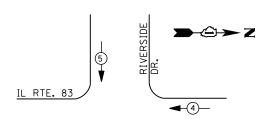
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL	. ROUTE 83 AT	CHICAG	O ELMH	URST STONE	QUARRY ENTRANCE	F.A.	SECTION	COUNTY
N:\Projects3\12062\DesignCAD\Sheet Files	630_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE					DESIGNATION DIAGRAM	1112	2012-082TS	DUPAGE
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	ERGENCY	VEHICL	E PREEMPTIO	ON SEQUENCE			CONTRACT
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEE	TS STA.	TO STA.		ILLINOIS FED	D. AID PROJECT

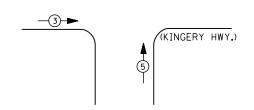




- 1 REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- 3 REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	CY VEHICLI	E PREEMPTOI	<b>?</b> S
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	-	-	<b> </b>

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE											
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	20	1 35	17	0.50	170						
(YELLOW)	20	1 35	25	0.25	125						
( GREEN)	(GREEN) 24 135 15 0.25										
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL	2	90	25	1.00	50						
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	545						

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>

PHONE <u>630-424-5704</u>
<u>COMMONWEALTH EDISON</u>

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

- 2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON
- 2 EACH PEDESTRIAN PUS 2 EACH SIGNAL POST

TS #640 ELMHURST

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 83 AT RIVERSIDE DRIVE (WALMART)		F.A.	SECTION	COUNTY	TOTAL SH	IEET
N:\Projects3\12062\DesignCAD\Sheet File	es 640_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION			2012-082TS	DUPAGE	88	19
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 60W	00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



YORK RD.

**-**③**-**►

TYPE

SIGNAL (RED)

PED. SIGNAL

CONTROLLER

LLUM. SIGN

VIDEO SYSTEM

FLASHER LED

ENERGY COSTS-

ENERGY SUPPLY -

ARROW

(YFIIOW)

(GREEN)

**EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

EMERGENCY VEHICLE PREEMPTORS

I. D. O. T.

WATTAGE

BILLED TO: IDOT DISTRICT 1

CONTACT JOE STACHO

630-424-5704

LED

17

25

15

100

TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS

INCAND.

1 35

135

1 35

1 35

100

150

PHONE

EMERGENCY VEHICLE PREEMPTOR

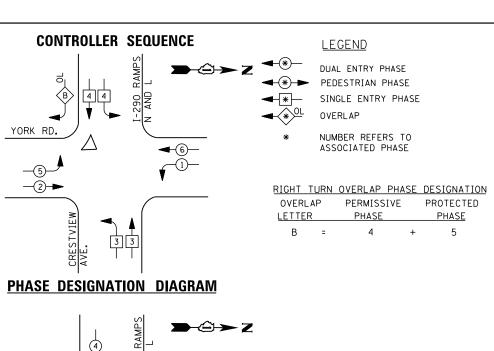
MOVEMENT

NO. LAMPS

14

18

12



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

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

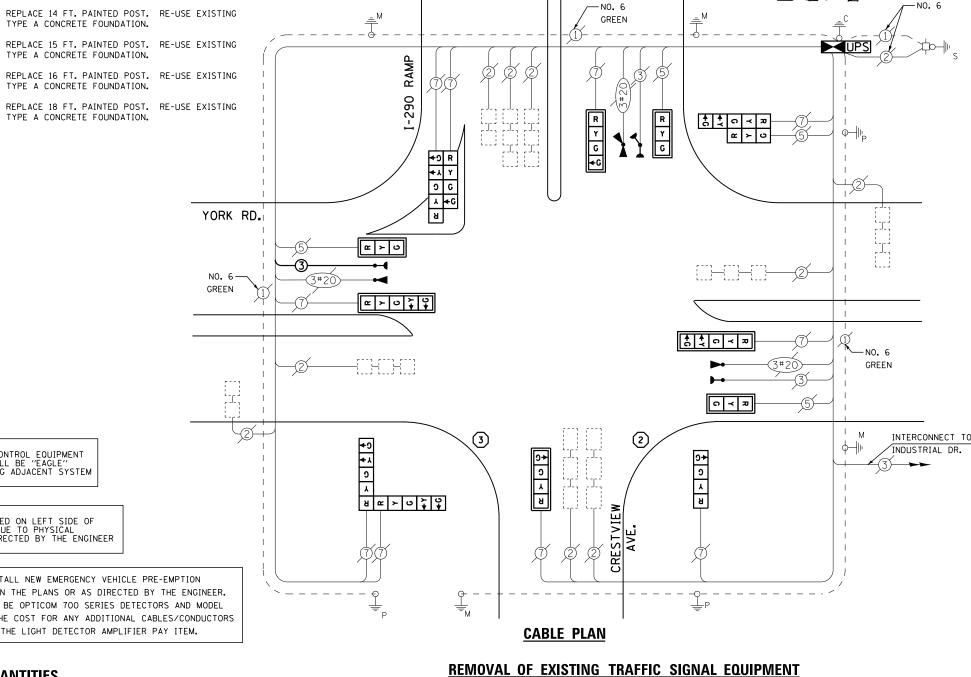
CONTRACTOR SHALL INSTALL NEW EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. EQUIPMENT USED SHALL BE OPTICOM 700 SERIES DETECTORS AND MODEL 452 DISCRIMINATORS. THE COST FOR ANY ADDITIONAL CABLES/CONDUCTORS SHALL BE INCLUDED IN THE LIGHT DETECTOR AMPLIFIER PAY ITEM.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.



#### WATTAGE 119

OLIANITIT	TV LINET	ITTU
QUANTII	<u> INIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED
7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
9	EACH	INDUCTIVE LOOP DETECTOR
* 3	EACH	LIGHT DETECTOR
* 1	EACH	LIGHT DETECTOR AMPLIFIER
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### **SCHEDULE OF QUANTITIES**

* 100% COST TO THE CITY OF ELMHURST

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

AGENCY: CITY OF ELMHURST 3 EACH LIGHT DETECTOR AND BEACON 1 EACH LIGHT DETECTOR AMPLIFIER

EACH

SCALE: N.T.S.

THE FOLLOWING 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.

SIGNAL HEAD, 4 - SECTION FACH SIGNAL HEAD, 5 - SECTION SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION FACH SIGNAL HEAD, 2 - FACE, 1-4 SECTION, 1-5-SECTION EACH

SIGNAL HEAD, 2 - FACE, 5 SECTION FACH

SIGNAL HEAD, 3 - SECTION

TRAFFIC SIGNAL BACKPLATE EACH

EACH SIGNAL POST EACH CONTROLLER AND CABINET (COMPLETE) TS# 5990 **ELMHURST** 

**→ ② → Z** 

FILE NAME = USER NAM	E = \$USER\$	DESIGNED	-	DW	REVISED	-	Τ
V:\Projects3\12062\DesignCAD\Sheet Files 5990_CAB_I	DUPAGE.dgn	DRAWN	-	JDH	REVISED	-	
PLOT SCAL	LE = \$SCALE\$	CHECKED	-	KMM	REVISED	-	
PLOT DATE	E = 2/5/2013	DATE	-		REVISED	-	

% OPERATIONS TOTAL

88

68

15

100

--

390

0.50

0.25

0.25

0.10

1.00

0.05

1.00

TOTAL =

201 WEST CENTER COURT

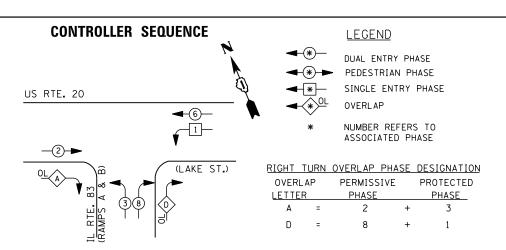
COMMONWEALTH EDISON

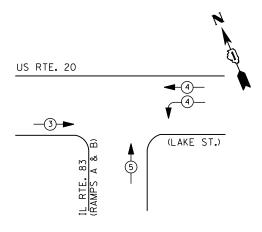
SCHAUMBURG, IL 60196-1096

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

YORK ROAD AT 1-290 RAMP/CRESTVIEW AVENUE SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-082TS DUPAGE 88 20 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 60W00 SHEET NO. OF SHEETS STA.







#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENC*	Y VEHICLE	PREEMPTO	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	-		<b>†</b>

	I. D. O. T.							
	TRAFFIC S	I GNAL I	NSTALLA	TION				
ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL			
		INCAND.	LED		WATTAGE			
SIGNAL (RED)	15	1 35	17	0.50	128			
(YELLOW)	15	1 35	25	0.25	94			
( GREEN)	15	1 35	15	0.25	57			
ARROW	4	1 35	12	0.10	5			
PED. SIGNAL	i	90	25	1.00				
CONTROLLER	1	100	1 00	1.00	100			
ILLUM. SIGN		252	25	0.05				
VIDEO SYSTEM		150	-	1.00				
FLASHER LED								
				TOTAL =	384			

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704

COMMONWEALTH EDISON

## **SCHEDULE OF QUANTITI**

QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
MODIFY EXISTING CONTROLLER CABINET
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 3-FACE, 3-3 SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT EACH EACH EACH EACH EACH EACH

> TS #6015 **ELMHURST**

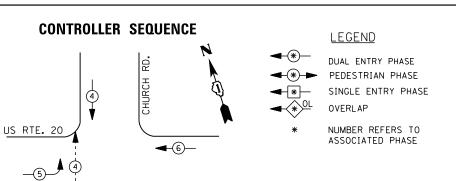
COUNTY TOTAL SHEET NO.

DUPAGE 88 21

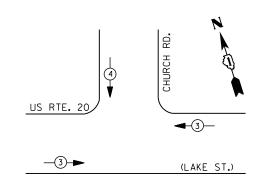
CONTRACT NO. 60WOO

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW IL ROUTE 83 (RAMPS A & B) AT US ROUTE 20 (LAKE STREET) SECTION STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE N:\Projects3\12062\DesignCAD\Sheet Files 6015_CAB_DUPAGE.dgn DRAWN JDH REVISED 2012-082TS **DEPARTMENT OF TRANSPORTATION** CHECKED REVISED SCALE: N.T.S. SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = 2/5/2013

M   AY   AC	NO. 6    NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6   NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6     NO. 6   NO. 6     NO. 6     NO. 6     NO. 6     NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   NO. 6   N	TRACER CABLE  INTERCONNECT TO GRAND AVE.
S	(LAKE ST.)	EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR
AND SAMPLING (SYSTEM) DETECTOR  US RTE. 20  TRACER CABLE	3#20	5 M M
INTERCONNECT TO WOODDALE RD./ VILLA AVE.	EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTOR  CABLE PLAN	RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.



(LAKE ST.)



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>†</b> 1	ļ

I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TOTAL						
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	9	1 35	1 7	0.50	77				
(YELLOW)	9	1 35	25	0.25	57				
( GREEN)	9	1 35	15	0.25	34				
ARROW	4	1 35	12	0.10	5				
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00	-				
FLASHER LED									
				TOTAL =	323				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

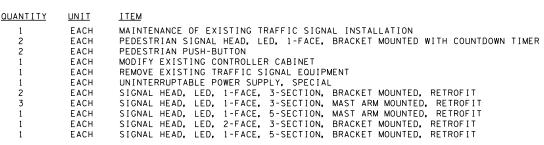
201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704 COMMONWEALTH EDISON

<u>QUANTITY</u> <u>UNIT</u>

SCHEDULE OF QUANTITIES



#### CHURCH -TRACER CABLE \INTERCONNECT TO **↑** ↑ ∩ ≺ 刃 WALNUT AVE. US RTE. 20 ات | ح | ہے | -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS A A C < 2 GREEN ດ ≺ ⊅ EXISTING INTERSECTION -AND SAMPLING (SYSTEM) DETECTORS (LAKE ST.) R V TRACER CABLE ٨ ଥ ≃ ≻ **୬** В INTERCONNECT TO WEST AVE. — NO. 6 GREEN

NO. 6 GREEN

#### RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

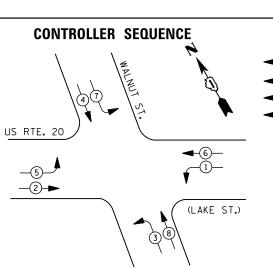
EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON 2 EACH

**CABLE PLAN** 

TS# 6025 **ELMHURST** 

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 20 AT CHURCH ROAD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE  F.A. RTE. SECTION 2012-082TS			US ROUTE 20 AT CHURCH ROAD				F.A. RTF.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	6025_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS				SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88 22			
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EN	IERGENCY	VEHICL	LE PREEMPTIO	ON SEQUENCE			CONTRAC	T NO. 60W00	
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEET	TS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



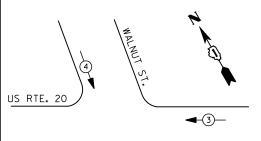


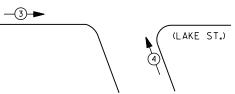
#### <u>LEGEND</u>

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGE	NCY VE	HICLE PREE	MPTORS
EMERGENCY PREEMF		3	4
MOVEME	ENT	<b>—</b>	<b>↓</b> ↑

I. D. O. T.									
	TRAFFIC SIGNAL INSTALLATION								
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	TOTAL							
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	1 7	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	1	150	-	1.00	1				
FLASHER LED									
				TOTAL =	342				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

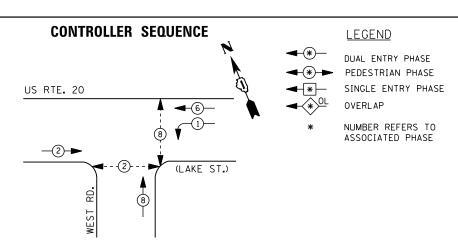
<u>QUANTITY</u> <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH EACH EACH

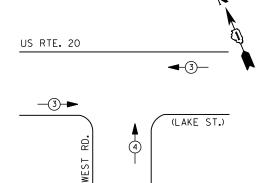
TS# 6075 ELMHURST

FIL	E NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 20 AT WALNUT STREET	F.A. SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\	Projects3\12062\DesignCAD\Sheet Files	6075_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	2012-082TS	
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60WOO
		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.   SHEET NO. OF SHEETS   STA. TO STA.	ILLING	IS FED. AID PROJECT

NO. 6  GREEN	EXISTING INTERSECTION AND SAMPLIN (SYSTEM) DETECTORS
EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS  US RTE. 20	0 3 # 20 NO. 6 GREEN
TRACER—CABLE	
INTERCONNECT TO CHURCH RD.	(7)   (1)
CABLE PLAN	NO. 6 GREEN NO. 6







#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4							
MOVEMENT	<del></del>	1							

	I. D. O. T.													
TRAFFIC SIGNAL INSTALLATION														
	ELECTRICAL SERVICE REQUIREMENTS  TYPE NO. LAMPS   WATTAGE   % OPERATIONS   TOTAL													
TYPE	% OPERATIONS	TOTAL												
		INCAND.	LED		WATTAGE									
SIGNAL (RED)	10	1 35	17	0.50	85									
(YELLOW)	10	1 35	25	0.25	63									
( GREEN)	10	1 35	15	0.25	38									
ARROW	4	1 35	12	0.10	5									
PED. SIGNAL	4	90	25	1.00	100									
CONTROLLER	1	100	1 00	1.00	100									
ILLUM. SIGN		252	25	0.05										
VIDEO SYSTEM		150	-	1.00										
FLASHER LED														
				TOTAL =	391									

ENERGY COSTS-BILLED TO: IDOT DISTRICT 1

ENERGY SUPPLY -

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT JOE STACHO PHONE

#### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE -

INTERCONNECT TO

GRAND AVE.

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US RTE. 20

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#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

⊅ ≺ ດ

(LAKE ST.)

ດ **≺** ⊅

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4 EACH PEDESTRIAN SIGNAL HEAD

**CABLE PLAN** 

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

3 EACH PEDESTRIAN PUSH-BUTTON

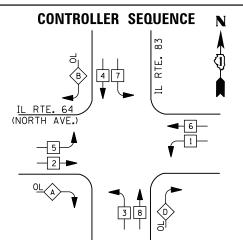
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

- TRACER CABLE

INTERCONNECT TO CHURCH RD.

	PHONE 630-424-5704 COMMONWEALTH EDISON	<u> </u>							TS# 6080 ELMHURST
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		US ROUTE 20 AT WEST AVENUE	F.A. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files	6080_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		012-082TS	DUPAGE 88 24
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		C	ONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID PF	ROJECT
				•					





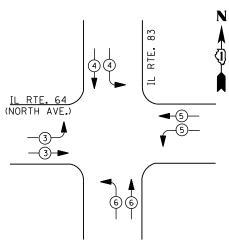
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION

OVERL	AP	PERMISSIVE		PROTECTED
LETTER	?	PHASE		PHASE
A =		2	+	3
В	=	4	+	5
D	=	8	+	1

#### **PHASE DESIGNATION DIAGRAM**



IL RTE. 64		IL RTE. 83	
(NORTH AVE.)  —3 —3 ——3	66	<b>▼</b> 5- <b>√</b> 5-	_

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

Er	MERGENCY	VEHICLE PR	EEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6		
MOVEMENT			<b>—</b>	<b>-</b>		

	1. D. O. 1.													
TRAFFIC SIGNAL INSTALLATION														
	ELECTRICAL SERVICE REQUIREMENTS													
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL									
		INCAND.	LED		WATTAGE									
SIGNAL (RED)	24	1 35	1 7	0.50	204									
(YELLOW)	24	1 35	25	0.25	150									
( GREEN)	26	1 35	15	0.25	98									
ARROW	12	1 35	12	0.10	15									
PED. SIGNAL		90	25	1.00										
CONTROLLER	1	100	100	1.00	100									
ILLUM. SIGN		252	25	0.05										
VIDEO SYSTEM		150	-	1.00										
FLASHER LED														
				TOTAL =	567									

ENERGY COSTS-BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO 630-424-5704 PHONE

COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES** 

AND TYPE IV CABINET, SPECIAL PAY ITEM.

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIA
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

# IL RTE. 64 (NORTH AVE.) (m) > (40) NO. 6-GREEN **3**#20 GREEN INTERCONNECT TO (C) (S) (S) (S) ELMHURST PLAZA TRACER CABLE 83 NO. 6 RTE. GREEN CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER **CABLE PLAN** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

1 EACH UNINTERRUPTABLE POWER SUPPLY

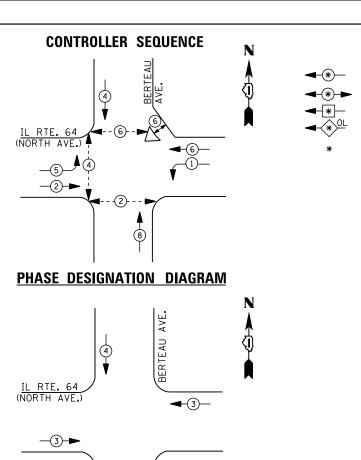
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

1 EACH CONTROLLER AND CABINET (COMPLETE)

TS# 6400 **ELMHURST** 

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				IL ROU	JTE 83 AT	IL ROUTE 64	·	F.A. RTF	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files	6400_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM				2012-082TS	DUPAGE	88 25			
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE						CONTRAC	T NO. 60W00		
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AI	D PROJECT					





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	<b> </b>

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

TYPE	NO. LAMPS	WATTAGE %		% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	13	1 35	17	0.50	111
(YELLOW)	13	1 35	25	0.25	82
( GREEN)	13	1 35	15	0.25	49
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704

COMMONWEALTH EDISON

#### **LEGEND**

DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

EACH PEDESTRIAN SIGNAL HEAD PEDESTRIAN PUSH-BUTTON EACH EACH TRAFFIC SIGNAL BACKPLATE

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

**SCHEDULE OF QUANTITIES** PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4

QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM EACH MODIFY EXISTING CONTROLLER CABINET
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH FACH NEMOVE EXISTING TRAFFIC STONAL EQUIFMENT
UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT FACE FACH FACE EACH SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT EACH EACH EACH OPTICALLY PROGRAMMED SIGNAL HEAD, LED, 2-FACE, 1-3-SECTION, 1-5-SECTION, BRACKET MOUNTED, RETROFIT

INTERCONNECT TO

IL RTE. 64 (NORTH AVE.)

> NO. 6 GREEN

EMROY AVE.

TRACER CABLE

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

RETROFIT ALL EXISTING

SIGNAL HEADS TO L.E.D

TS# 6415 **ELMHURST** 

EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW N:\Projects3\12062\DesignCAD\Sheet File s 6415_CAB_DUPAGE.don DRAWN JDH REVISED CHECKED КММ REVISED PLOT DATE = 2/5/2013 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

IL ROUTE 64 AT BERTEAU AVENUE SECTION COUNTY SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM 2012-082TS DUPAGE 88 26 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE CONTRACT NO. 60W00 SHEET NO. OF SHEETS STA.

NO. 6-

GREEN

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SCALE: N.T.S.

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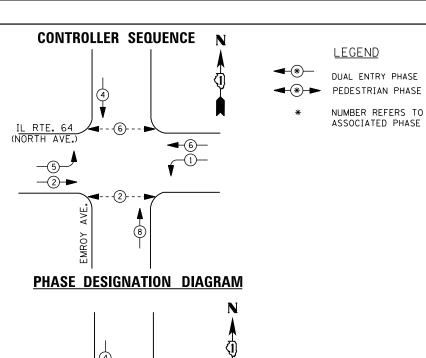
GREEN

**CABLE PLAN** 

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#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**◄**-3)—

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b> </b>

IL RTE. 64 (NORTH AVE.)

**-**3 **→** 

I. D. O. T.   TRAFFIC SIGNAL INSTALLATION   ELECTRICAL SERVICE REQUIREMENTS   TOTAL   WATTAGE   INCAND.   LED   WATTAGE   WATTAGE   WATTAGE   SIGNAL (RED)   12   135   17   0.50   102   135   25   0.25   75   (GREEN)   12   135   15   0.25   45   45   45   45   45   45   45									
TYPE			I. D. O	. T.					
TYPE NO. LAMPS WATTAGE INCAND. LED WATTAGE SIGNAL (RED) 12 135 17 0.50 102 (YELLOW) 12 135 25 0.25 75 (GREEN) 12 135 15 0.25 45 ARROW 8 135 12 0.10 10 PED. SIGNAL 4 90 25 1.00 100 CONTROLLER 1 100 100 1.00 100 ILLUM. SIGN 252 25 0.05 VIDEO SYSTEM 150 - 1.00		TRAFFIC S	I GNAL I	NSTALLA	TION				
INCAND.   LED		<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS				
SI GNAL (RED) 12 135 17 0.50 102 (YELLOW) 12 135 25 0.25 75 (GREEN) 12 135 15 0.25 45  ARROW 8 135 12 0.10 10  PED. SI GNAL 4 90 25 1.00 100  CONTROLLER 1 100 100 1.00 100  ILLUM. SI GN 252 25 0.05  VI DEO SYSTEM 150 - 1.00	TYPE								
(YELLOW)     12     135     25     0.25     75       (GREEN)     12     135     15     0.25     45       ARROW     8     135     12     0.10     10       PED. SIGNAL     4     90     25     1.00     100       CONTROLLER     1     100     100     1.00     100       ILLUM. SIGN     252     25     0.05       VIDEO SYSTEM     150     -     1.00			INCAND.	LED		WATTAGE			
(GREEN) 12 135 15 0.25 45  ARROW 8 135 12 0.10 10  PED. SIGNAL 4 90 25 1.00 100  CONTROLLER 1 100 100 1.00 100  ILLUM. SIGN 252 25 0.05  VIDEO SYSTEM 150 - 1.00	SIGNAL (RED)	12	1 35	17	0.50	102			
ARROW 8 135 12 0.10 10  PED. SIGNAL 4 90 25 1.00 100  CONTROLLER 1 100 100 1.00 100  ILLUM. SIGN 252 25 0.05  VIDEO SYSTEM 150 - 1.00  FLASHER LED	(YELLOW)	12	1 35	25	0.25	75			
PED. SIGNAL 4 90 25 1.00 100  CONTROLLER 1 100 100 1.00 100  ILLUM. SIGN 252 25 0.05  VIDEO SYSTEM 150 - 1.00  FLASHER LED	( GREEN)	12	1 35	15	0.25	45			
CONTROLLER	ARROW	8	1 35	12	0.10	10			
ILLUM. SIGN         252         25         0.05           VIDEO SYSTEM         150         -         1.00           FLASHER LED         -         1.00         -	PED. SIGNAL	4	90	25	1.00	100			
VIDEO SYSTEM 150 - 1.00  FLASHER LED	CONTROLLER	1	1 00	1 00	1.00	100			
FLASHER LED	ILLUM. SIGN		252	25	0.05				
7074	VIDEO SYSTEM		150	-	1.00				
7074									
7074									
TOTAL = 432	FLASHER LED								
					TOTAL =	432			

BILLED TO: IDOT DISTRICT 1 ENERGY COSTS-

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT JOE STACHO ENERGY SUPPLY -PHONE

630-424-5704 COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	<u>I T E M</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

INTERCONNECT TO YORK RD.

TRACER CABLE -

### **CABLE PLAN**

-NO. 6 GREEN

NO. 6-GREEN

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IL RTE. 64 (NORTH AVE.)

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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THE FOLLOWING 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.

- 4 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

TS# 6430 ELMHURST

INTERCONNECT TO

-TRACER CABLE

BERTEAU AVE.

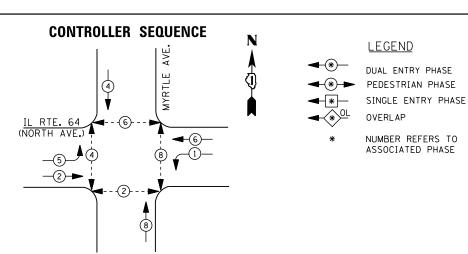
GREEN

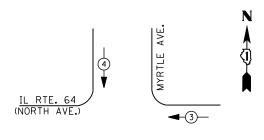
RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

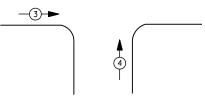
UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 64 AT EMROY AVENUE/MELROSE AVENUE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET	SHEE
N:\Projects3\12062\DesignCAD\Sheet Files	6430_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	HEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	27
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC	T NO.	owoo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	<b>1</b>

		1. D. O								
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	NO. LAMPS WATTAGE % OPERATIONS TO								
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05	-					
VIDEO SYSTEM		150	-	1.00	1					
FLASHER LED										

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY -CONTACT JOE STACHO

630-424-5704 PHONE

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT FACH **FACH** FACH FACH EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

#### NO. 6 -GREEN INTERCONNECT TO YORK RD. MYRTL R Y -TRACER CABLE G **₹** 6 ≺ 2 IL RTE. 64 (NORTH AVE.) **∞** ≻ ∪ ~ > 0 <del>}</del> <del>9</del> **↑ ↑ 0** ≺ **2** NO. 6 GREEN INTERCONNECT TO - x > 0 + 0 WEST AVE. * -٨ Я TRACER CABLE NO. 6 GREEN **CABLE PLAN** RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

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

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

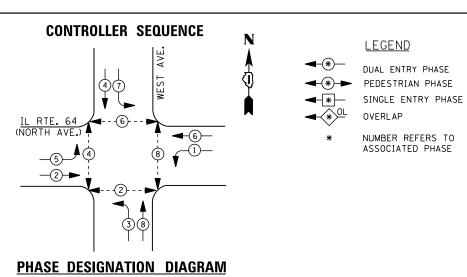
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

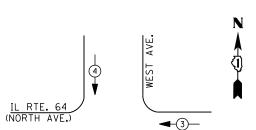
8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

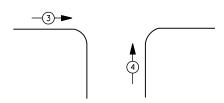
TS# 6460

	COMMONWEALTH EDISON	_													E	LMHL	RST
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				IL ROUTI	E 64 AT	MYRTI	.E AVENUE	E	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	6460_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH						GNATION DIAGRAM		2012-082TS	DUPAGE	88	28
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	IERGENCY	/ VEHICL	LE PREE	MPTION S	SEQUENCE			CONTRAC	T NO.	00W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEE	TS S	TA.	TO STA.		ILLINOIS FE	. AID PROJECT		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

	TRAFFIC S								
TYPE	NO. LAMPS	ELECTRICAL SERVICE REQUIREMENTS  NO. LAMPS   WATTAGE % OPERATIONS   TOTAGE							
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	1 7	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00	1				
FLASHER LED									

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

CONTACT <u>JOE STACHO</u> ENERGY SUPPLY -

PHONE 630-424-5704

TOTAL =

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD 8 EACH PEDESTRIAN PUSH-BUTTON 8 EACH TRAFFIC SIGNAL BACKPLATE

-NO. 6

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**CABLE PLAN** 

A Y

NO. 6 GREEN

NO. 6-

GREEN

TS# 6490

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

INTERCONNECT TO

TRACER CABLE

MYRTLE AVE.

	COMMONWEALTH EBISC	211												El	LMHU	RST
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL RO	OUTE 64	AT WE	ST AVENUE		F.A.	SECTION	COUNTY	TOTAL	S SHEET
N:\Projects3\12062\DesignCAD\Sheet File:	6490_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHI	EDULE OF QUANTITIES,						2012-082TS	DUPAGE	88	29
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGEN	ICY VEHI	ICLE PRE	EMPTION	SEQUENCE			CONTRACT	T NO. 6	50WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	F SHE	EETS	STA.	TO STA.		ILL INOIS FEE	AID PROJECT		

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IL RTE. 64 (NORTH AVE.)

NO. 6-

GREEN

EXISTING INTERSECTION -

AND SAMPLING (SYSTEM)

DETECTORS

C W

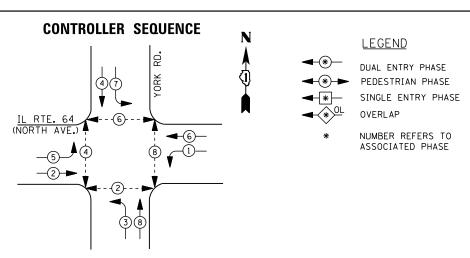
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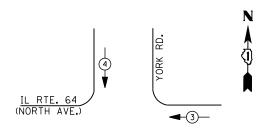
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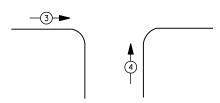
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#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>←</b>	<b> </b>						

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	17	0.50	102
(YELLOW)	12	1 35	25	0.25	75
( GREEN)	12	1 35	15	0.25	45
ARROW	16	1 35	12	0.10	20
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>

PHONE 630-424-5704

# COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

**QUANTITY** <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL FACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT EACH FΔCH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT PEDESTRIAN PUSH-BUTTON, NON-LATCHING FACH

#### -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS NO. 6-GREEN 8 INTERCONNECT TO EMROY AVE. R Y G ←Y ←G Y G +Y +G Y G -TRACER CABLE รู้ | <del>ร</del>ุ่ด | ≺ | ฆ IL RTE. 64 (NORTH AVE.) ت ≺ ش EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS ~ > O + 7 NO. 6 GREEN **↑** ↑ 0 ≺ ₽ EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS INTERCONNECT TO \ \ \ \ \ \ \ ~ ~ v <del>`</del> MYRTLE AVE. 2 * -٨ Я TRACER CABLE NO. 6 GREEN **CABLE PLAN** EXISTING INTERSECTION RETROFIT ALL EXISTING AND SAMPLING (SYSTEM) SIGNAL HEADS TO L.E.D DETECTORS PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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

8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

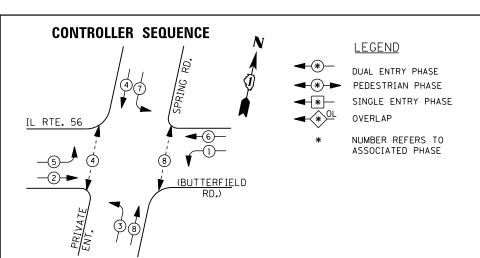
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

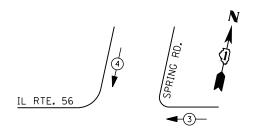
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

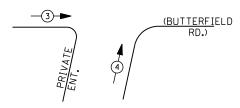
TS# 6500 ELMHURST

		_							Ll	LMHUI	35 I
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 64 AT YORK ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	.6500_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-082TS	DUPAGE	88	30
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	owoo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FEE	AID PROJECT		









#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>+</b>			

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRICAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	17	0.50	102
(YELLOW)	12	1 35	25	0.25	75
( GREEN)	12	1 35	15	0.25	45
ARROW	16	1 35	12	0.10	20
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	442

ENERGY COSTS-

BILLED TO: CITY OF ELMHURST

209 N. YORK STREET ELMHURST, IL 60126

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704 COMMONWEALTH EDISON 442

SCHEDULE OF QUANTITIES

QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN PUSH-BUTTON EACH MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL

# INTERCONNECT TO R > G > G PROSPECT AVE. TRACER CABLE - (EXP) (BUTTERFIELD RD.) IL RTE. 56 GREEN INTERCONNECT TO COMMONWEALTH LN. TRACER CABLE NO. 6 GREEN **CABLE PLAN** UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

NO. 6-

GREEN

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

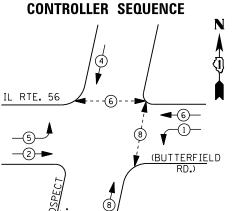
4 EACH PEDESTRIAN PUSH-BUTTON

TS #13175 ELMHURST

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 56 AT SPRING ROAD	F.A. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12062\DesignCAD\Sheet Files	13175_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	31
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 60	woo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.   SHEET NO. OF SHEETS   STA. TO STA.		ILLINOIS FED. AI	D PROJECT		



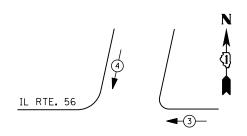


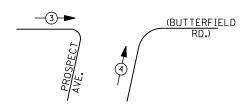


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>—</b>	<b>↓</b> ↑		

		I. D. O	. T.		
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	12	1 35	17	0.50	102
(YELLOW)	12	1 35	25	0.25	75
( GREEN)	12	1 35	15	0.25	45
ARROW	8	1 35	12	0.10	10
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	432

BILLED TO: CITY OF ELMHURST

CONTACT JOE STACHO

PHONE

209 N. YORK STREET

ELMHURST, IL 60126

COMMONWEALTH EDISON

630-424-5704

ENERGY COSTS-

ENERGY SUPPLY -

432

**SCHEDULE OF QUANTITIES** 

<u>QUANTITY</u> <u>UNIT</u> <u>ITEM</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN PUSH-BUTTON EACH MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

(BUTTERFIELD RD.)

−N0.6

GREEN

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

GREEN

THE FOLLOWING 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.

4 EACH PEDESTRIAN PUSH-BUTTON

-NO. 6 GREEN

**CABLE PLAN** 

TS #13190 ELMHURST

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 56 AT PROSPECT AVENUE	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	13190_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-082TS	DUPAGE 88 32
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FEE	D. AID PROJECT

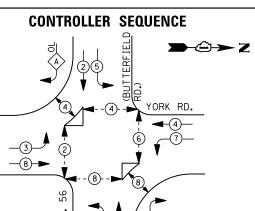
INTERCONNECT TO

SPRING RD.

TRACER — CABLE

IL RTE. 56





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

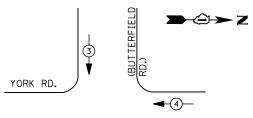
ASSOCIATED PHASE

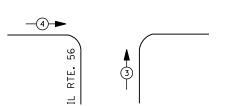
RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVE	RLAP	PERMIS	SIVE	PROTECTED
LETT	ER	PHAS	Ε	PHASE

2

3

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b> </b>	<b>←</b>

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	14	1 35	1 7	0.50	119					
(YELLOW)	14	1 35	25	0.25	88					
( GREEN)	14	1 35	15	0.25	53					
ARROW	24	1 35	12	0.10	29					
PED. SIGNAL	12	90	25	1.00	300					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00	1					
FLASHER LED										

ENERGY COSTS-

BILLED TO: CITY OF ELMHURST 209 N. YORK STREET

ELMHURST, IL 60126

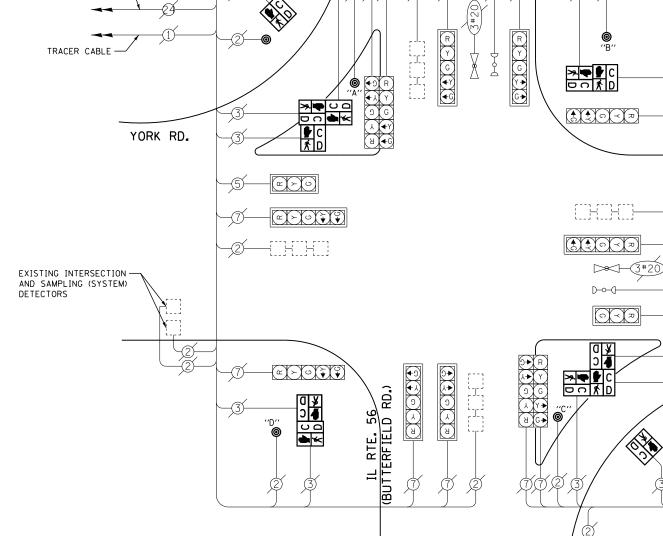
ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

TOTAL =

689

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT		<b>—</b>



#### **SCHEDULE OF QUANTITIES**

PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8 QUANTITY <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH

INTERCONNECT TO LEXINGTON ST.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

12 EACH PEDESTRIAN SIGNAL HEAD 6 EACH PEDESTRIAN PUSH-BUTTON

**CABLE PLAN** 

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

TS# 22022 ELMHURST

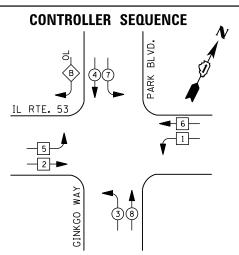
EXISTING INTERSECTION AND SAMPLING (SYSTEM)

**DETECTORS** 

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 56 AT YORK ROAD	F.A. RTF	SECTION		TAL SHEET EETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files	22022_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-082TS	DUPAGE 8	88 33
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT NO	J. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A		





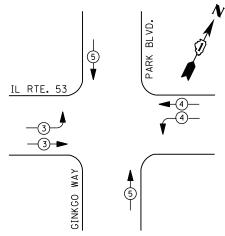
DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION PERMISSIVE PROTECTED OVERLAP LETTER **PHASE** PHASE

#### **PHASE DESIGNATION DIAGRAM**



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5		
MOVEMENT		-	<b>↓</b> †		

I. D. O. T.											
TRAFFIC SIGNAL INSTALLATION											
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	18	1 35	1 7	0.50	153						
(YELLOW)	18	1 35	25	0.25	113						
( GREEN)	18	1 35	15	0.25	68						
ARROW	12	1 35	12	0.10	15						
PED. SIGNAL	-	90	25	1.00							
CONTROLLER	1	1 00	100	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	ı	1.00							
FLASHER LED											
				TOTAL =	449						

ENERGY COSTS-

BILLED TO: THE VILLAGE OF GLEN ELLYN 535 DUANE STREET

GLEN ELLYN, IL 60137

CONTACT JOE STACHO ENERGY SUPPLY -PHONE 630-424-5704

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>

EACH

EACH

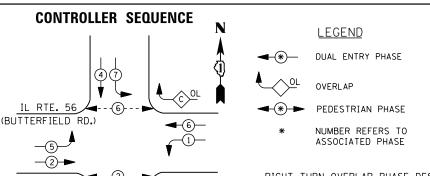
GREEN IL RTE. 53 D--0--(I NO. 6-GREEN GREEN **CABLE PLAN** 

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

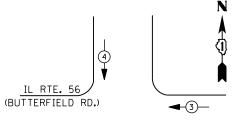
TS# 6230 GLEN ELLYN

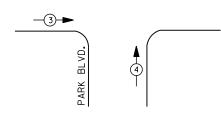
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 53 AT GINKGO WAY/PARK BOULEVARD	F.A.	SECTION	COUNTY TOTAL SHEET SHEET NO.
N:\Projects3\12062\DesignCAD\Sheet Files	6230_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 34
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT





RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	Į
OVERL	_AP	PERMISS	IVE	PROTECTED	
LETTE	R	PHASE		PHASE	
Α	=	2	+	3	
С	=	6	+	7	





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	<b> </b>

		I. D. O	. т.							
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	16	1 35	17	0.50	136					
(YELLOW)	16	1 35	25	0.25	100					
( GREEN)	16	1 35	15	0.25	60					
ARROW	24	1 35	12	0.10	29					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	575					

BILLED TO: THE VILLAGE OF GLEN ELLYN ENERGY COSTS-535 DUANE STREET

PHONE

ENERGY SUPPLY -

GLEN ELLYN, IL 60137

CONTACT JOE STACHO 630-424-5704 COMMONWEALTH EDISON

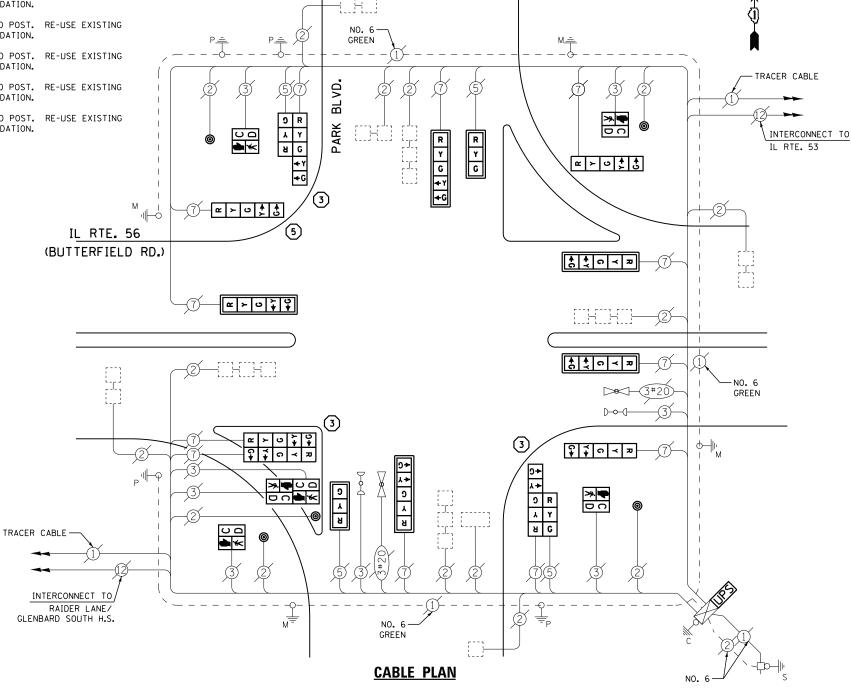
NATION	(5)
CTED	
<u>SE</u>	

#### REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING



REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 10 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



#### **SCHEDULE OF QUANTITIES**

	QUANTITY	<u>UNIT</u>	ITEM
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.  RACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  SEACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED  EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED  EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED  EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED  EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME  EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME  EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM  EACH PEDESTRIAN PUSH-BUTTON  EACH MODIFY EXISTING CONTROLLER CABINET  EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2 EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED 3 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED 5 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED 1 EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED 2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, BRACKET MOUNTED 4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 5 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 6 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.
3 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED 5 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED 1 EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED 2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED 4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	3	EACH	TRAFFIC SIGNAL POST. GALVANIZED STEEL 16 FT.
5 EACH SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED 1 EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED 2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED 4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1 EACH SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED 2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED 4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EOUIPMENT	3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2 EACH SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED 4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME 7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
7 EACH TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM 5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
5 EACH PEDESTRIAN PUSH-BUTTON 1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1 EACH MODIFY EXISTING CONTROLLER CABINET 1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	7	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	5	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	MODIFY EXISTING CONTROLLER CABINET
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION SIGNAL HEAD, 2 - FACE, 2-5 SECTION FACH FΔCH FACH EACH PEDESTRIAN SIGNAL HEAD FΔCH EACH PEDESTRI AN PUSH-BUTTON TRAFFIC SIGNAL BACKPLATE EACH EACH SIGNAL POST

TS# 6305 GLEN FLLYN

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	
N:\Projects3\12062\DesignCAD\Sheet Files	6305_CAB_DUPAGE.dgn	DRAWN	-	JDH	REVISED	-	
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-	
	PLOT DATE = 2/5/2013	DATE	-		REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N.T.S.

			OLLI		
IL ROUTE 56 AT PARK BOULEVARD SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2012-082TS	DUPAGE	88	35
			CONTRACT	NO. 60	owoo
SHEET NO. OF SHEETS STA. TO STA.		TILINOIS FED AT	D PROJECT		



#### CONTROLLER SEQUENCE

(BUTTERFIELD RD.)

RAIDER LN./
SOUTH H.S.

# <u>LEGEND</u>

DUAL ENTRY PHASE

PEDESTRIAN PHASE

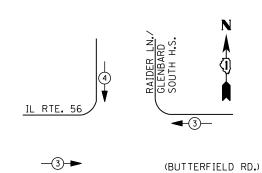
SINGLE ENTRY PHASE

OVERLAP

NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM

**-**②**-**►



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	<del></del>	•	

		1. D. O	.  .			
	TRAFFIC S	I GNAL I	NSTALLA	TION		
ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	9	1 35	1 7	0.50	77	
( YELLOW)	9	1 35	25	0.25	57	
( GREEN)	9	1 35	15	0.25	34	
ARROW	4	1 35	12	0.10	5	
PED. SIGNAL	2	90	25	1.00	50	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM	1	150	-	1.00	1	
FLASHER LED						
				TOTAL =	323	

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT JOE

CONTACT JOE STACHO
PHONE 630-424-5704

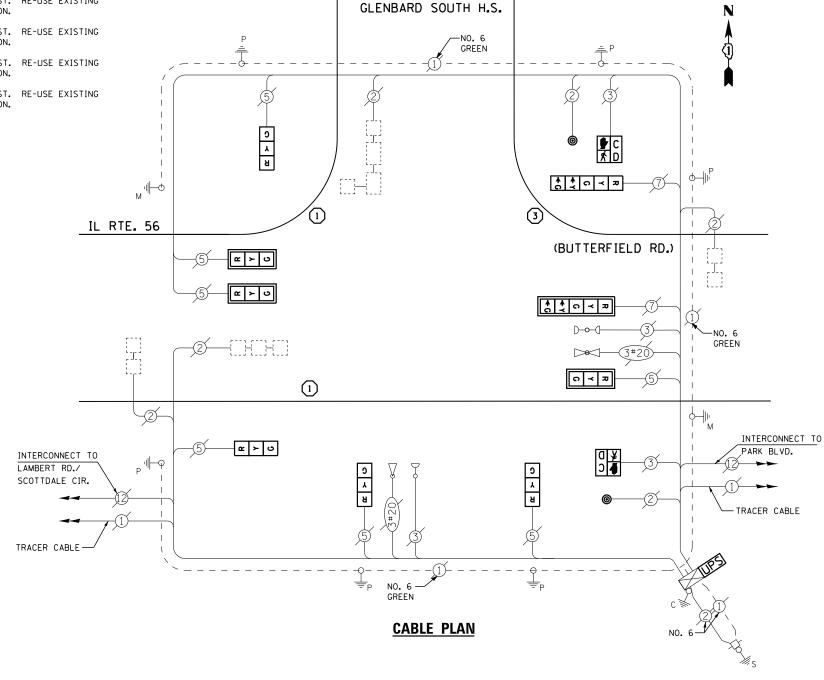
COMMONWEALTH EDISON

# REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

4 REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



RAIDER LN./

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

7 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION

2 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

4 EACH TRAFFIC SIGNAL BACKPLATE

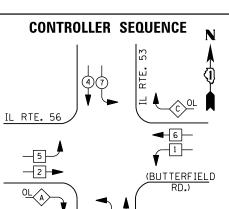
3 EACH SIGNAL POST

TS# 6340 GLEN ELLYN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| COUNTY | STEETS NO. |
| DUPAGE | 88 | 36 |
| CONTRACT NO. 60WOO





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO

ASSOCIATED PHASE

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

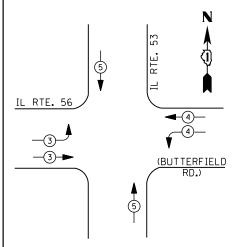
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING

PE A CONCRETE FOUNDATION.

	TYPE A CONCRETE FOUNDATION.	
4	REPLACE 18 FT. PAINTED POST. TYPE A CONCRETE FOUNDATION.	RE-USE EXISTING

RIGHT T	URN	OVERLAP	PHASE	DESIGNATION
OVERLA	AΡ	PERMIS:	SIVE	PROTECTED
<u>LETTER</u>		PHASE		PHASE
Α	=	2	+	3
С	=	6	+	7

#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	CY VEHICL	E PREEMPTOI	RS
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT			<b> </b>

	I. D. O. T.								
	TRAFFIC SIGNAL INSTALLATION								
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	1 7	0.50	153				
(YELLOW)	18	1 35	25	0.25	113				
( GREEN)	18	1 35	15	0.25	68				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	1 00	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00	1				
FLASHER LED									
				TOTAL =	454				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

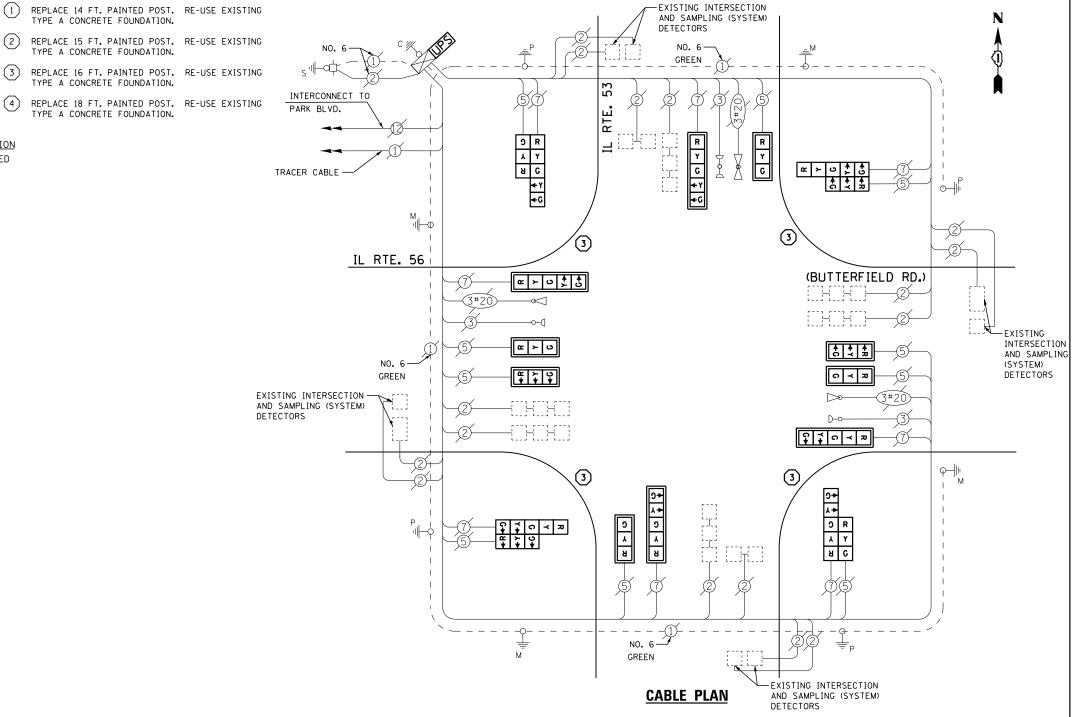
201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704 COMMONWEALTH EDISON

## **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UN I T</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
6	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
10	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION

SIGNAL HEAD, 1 - FACE, 5 - SECTION

SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION

10 EACH TRAFFIC SIGNAL BACKPLATE

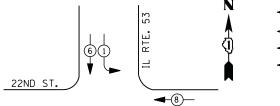
4 EACH SIGNAL POST

TS# 7835 CIFN FILYN

												GLEI	N ELI	- I IN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 56 A	IL ROUTE 53		F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	7835_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	EDULE OF QUANTITIES, CABLE PL			11111	2012-082TS	DUPAGE	88	37
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE	PREEMPTION	SEQUENCE		2012 002.0	CONTRACT	NO. 6	owoo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEET	S STA.	TO STA.		ILLINOIS FED. A			







DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP

NUMBER REFERS TO

ASSOCIATED PHASE

ENTRY PHASE

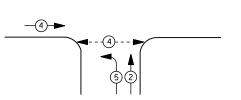
2 REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

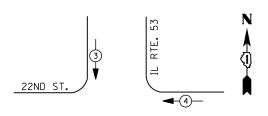
TYPE A CONCRETE FOUNDATION.

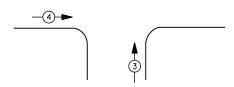
REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

4 REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



## PROPOSED & EXISTING PHASE DESIGNATION DIAGRAM





## PROPOSED & EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEH	HICLE PREE	MPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>↓</b> ↑	<del></del>		

I. D. O. T.
TRAFFIC SIGNAL INSTALLATION

ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	10	1 35	17	0.50	85		
(YELLOW)	10	1 35	25	0.25	63		
( GREEN)	10	1 35	15	0.25	38		
ARROW	8	1 35	12	0.10	10		
PED. SIGNAL	2	90	25	1.00	50		
CONTROLLER	1	100	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00	1		
FLASHER LED							

ENERGY COSTS- BILLED TO: IDOT

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

TOTAL =

346

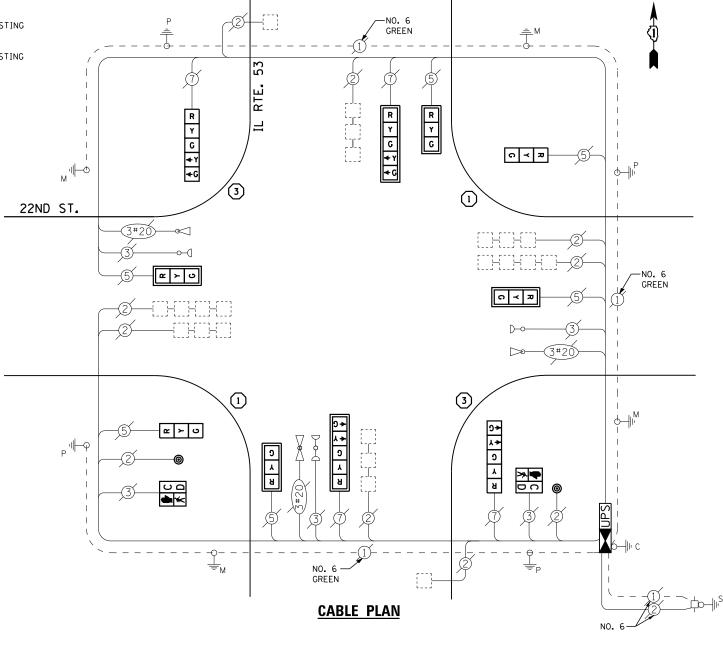
SCHAUMBURG, IL 60196-1096
ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>

PHONE 630-424-5704

COMMONWEALTH EDISON

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

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.



#### SCHEDULE OF QUANTITIES

<u>OUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
8	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

6 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION

4 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION 2 EACH PEDESTRIAN SIGNAL HEAD

2 EACH PEDESTRIAN PUSH-BUTTON

6 EACH TRAFFIC SIGNAL BACKPLATE

4 EACH SIGNAL POST

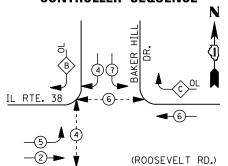
1 EACH CONTROLLER AND CABINET COMPLETE

TS# 8970 GLEN ELLYN

E	ILE NAME =	USER NAME = \$USER\$	DESIGNED -	D.W.	REVISED -						ATDEET		F.A.	CECTION		TOTAL	
- [' '				-		CTATE OF HIMOIC				AT 22ND			RTE.	SECTION	COUNTY	SHEET	5 NO.
N;	:\Projects3\12062\DesignCAD\Sheet Files	8970_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	HEDULE OF QUANTITIES,						2012-082TS	DUPAGE	88	38
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENC	CY VEHIC	LE PREEI	MPTION S	EQUENCE			CONTRAC	T NO.	60WOO
		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF	SHE	ETS S	TA.	TO STA.		ILLINOIS FED.	AID PROJECT		





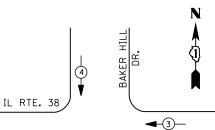


DUAL ENTRY PHASE → PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

#### PHASE DESIGNATION DIAGRAM

RIGHT TUR	RN OVERLAP	PHASE	DESIGNA	TION
OVERLAP	PERMIS:	SIVE	PROTECT	ED
LETTER	PHASE		PHASE	
В :	= 4	+	5	
C :	= 6	+	7	
IL RTE.	38	BAKER HILL DR.		N A



(ROOSEVELT RD.)

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	MPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	Į,

	I. D. O. T.					
	TRAFFIC S	I GNAL I	NSTALLA	TION		
	ELECTRICAL	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	13	1 35	17	0.50	111	
(YELLOW)	13	1 35	25	0.25	82	
( GREEN)	13	1 35	15	0.25	49	
ARROW	12	1 35	12	0.10	15	
PED. SIGNAL	4	90	25	1.00	100	
CONTROLLER	1	100	100	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM		150	-	1.00		

ENERGY COSTS-

FLASHER LED

BILLED TO: THE VILLAGE OF GLEN ELLYN

535 DUANE STREET GLEN ELLYN, IL 60137

TOTAL =

457

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

EACH

QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN PUSH-BUTTON EACH EACH FACH MODIFY EXISTING CONTROLLER CABINET FACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY. SPECIAL

TRACER CABLE -

IL RTE. 38

NO. 6-

GREEN

INTERCONNECT TO NICOLL WAY

> UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER **CABLE PLAN** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING 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

(ROOSEVELT RD.)

SHALL BE REFLECTED IN THE CONTRACT BID PRICE. 4 EACH PEDESTRIAN SIGNAL HEAD

GREEN

GREEN

HILL

BAKER H

4 EACH PEDESTRIAN PUSH-BUTTON

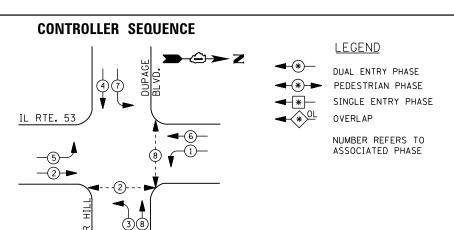
> TS# 12424 GLEN ELLYN

-TRACER CABLE

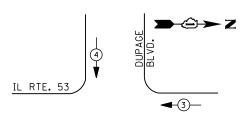
INTERCONNECT TO
N-S TOLLWAY RAMPS
"A" AND "C"

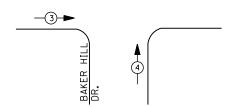
										OLLIV LLL III
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 38 AT BAKER HILL DRIVE	F.A. RTF	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	12424_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 39
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AID	





#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	<b>↓</b> ↑

	I. D. O. T.						
	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	12	1 35	1 7	0.50	102		
(YELLOW)	12	1 35	25	0.25	75		
( GREEN)	12	1 35	15	0.25	45		
ARROW	16	1 35	12	0.10	20		
PED. SIGNAL	4	90	25	1.00	100		
CONTROLLER	1	1 00	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	ı	1.00			
FLASHER LED							
				TOTAL =	442		

ENERGY COSTS-

ENERGY SUPPLY -

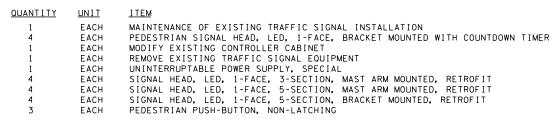
BILLED TO: THE VILLAGE OF GLEN ELLYN

535 DUANE STREET GLEN ELLYN, IL 60137

CONTACT JOE STACHO 630-424-5704 PHONE

COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES** 



### GREEN BL VD. INTERCONNECT TO PERSHING AVE. DUPAGE R Y G ←Y ←G Y G +Y +G Y G TRACER CABLE IL RTE. 53 **2** > 0 → 0 **↑** ↑ 0 ≺ 2 GREEN ດ ≺ ⊅ 7 ∨ ×≻ ⊃ - x > ∪ ¥ ¥ 0 ၁ a A Y ٨ TRACER CABLE **≯** C HILL Я INTERCONNECT TO SPRING AVE. — NO. 6 **GREEN CABLE PLAN**

NO. 6

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

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

**⋑**⊸≙<del>`</del>>Z

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

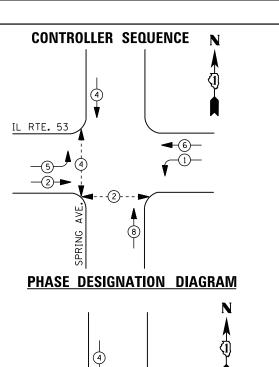
4 EACH PEDESTRIAN SIGNAL HEAD 3 EACH

PEDESTRIAN PUSH-BUTTON

TS# 20330 GLEN ELLYN

									GLE	N ELL	_ T IN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 53 AT BAKER HILL DRIVE/DUPAGE BOULEVARD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	20330_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-082TS	DUPAGE	88	40
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	owoo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT		





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**◄**-3)—

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	1	<b> </b>

IL RTE. 53

ENERGY COSTS-

ENERGY SUPPLY -

	1. D. O. I.						
	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	13	1 35	17	0.50	111		
(YELLOW)	13	1 35	25	0.25	82		
( GREEN)	13	1 35	15	0.25	49		
ARROW	8	1 35	12	0.10	10		
PED. SIGNAL	4	90	25	1.00	100		
CONTROLLER	1	100	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	452		

CONTACT JOE STACHO

PHONE

BILLED TO: THE VILLAGE OF GLEN ELLYN

630-424-5704

535 DUANE STREET

GLEN ELLYN, IL 60137

COMMONWEALTH EDISON

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OUTPUT

* NUMBER REFERS TO
ASSOCIATED PHASE

**LEGEND** 

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
9	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, SPAN WIRE MOUNTED, RETROFIT
4	EACH	SIGNAL HEAD. LED. 1-FACE. 5-SECTION. SPAN WIRE MOUNTED. RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

DUPAGE BLVD./
BAKER HILL DR.

TRACER CABLE

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

↑ ↑ O ≺ ਸ਼

**↑** ↑ ∩ ≺ 刃

THE FOLLOWING 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.

4 EACH PEDESTRIAN SIGNAL HEAD

G

R Y G

Y

R Y

> K K

> > **CABLE PLAN**

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

SPRING AVE,

~ ~ v <del>`</del> V

- x > 0 <del>}</del> 9

3 EACH PEDESTRIAN PUSH-BUTTON

TS# 20333 GLEN ELLYN

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

DETECTOR

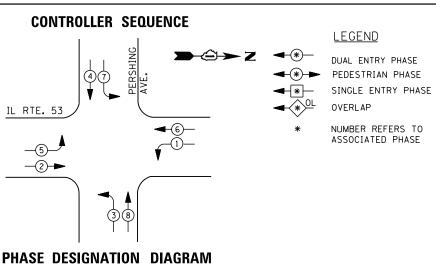
										OLLIN LLLIIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 53 AT SPRING AVENUE	F.A.	SECTION	COUNTY SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	20333_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHI	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1112	2012-082TS	DUPAGE 88 41
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	$\neg$	ILL INOIS FED	D. AID PROJECT

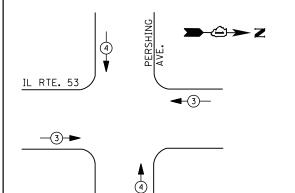
IL RTE. 53

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#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>+</b>	<b>1</b>

	I. D. O. T.						
	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	10	1 35	17	0.50	85		
(YELLOW)	10	1 35	25	0.25	63		
( GREEN)	10	1 35	15	0.25	38		
ARROW	16	1 35	12	0.10	20		
PED. SIGNAL		90	25	1.00			
CONTROLLER	1	1 00	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	306		

ENERGY COSTS-

FILE NAME =

BILLED TO: THE VILLAGE OF GLEN ELLYN

GLEN ELLYN, IL 60137

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

N:\Projects3\12062\DesignCAD\Sheet Files 20335_CAB_DUPAGE.dgn

COMMONWEALTH EDISON

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

> IL ROUTE 53 AT PERSHING AVENUE SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

GLEN ELLYN COUNTY TOTAL SHEETS NO.

DUPAGE 88 42 SECTION 2012-082TS CONTRACT NO. 60W00

**SCHEDULE OF QUANTITIES** 

QUANTITY <u>UN I T</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. EACH SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM MODIFY EXISTING CONTROLLER CABINET EACH F A C H FACH FACH EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NO. 6 GREEN **CABLE PLAN** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION TRAFFIC SIGNAL BACKPLATE FΔCH

EACH

EACH

SIGNAL POST EACH

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

DESIGNED REVISED DW DRAWN JDH REVISED CHECKED KMM REVISED DATE REVISED

SCALE: N.T.S.

SHEET NO. OF SHEETS STA.

535 DUANE STREET

USER NAME = \$USER\$

PLOT DATE = 2/5/2013

630-424-5704

IL RTE. 53

NO. 6 GREEN

TRACER CABLE

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING

INTERCONNECT TO SHEEHAN AVE.

PERSHING

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TRACER CABLE

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INTERCONNECT TO IL RTE. 38/ NICOLL

GREEN

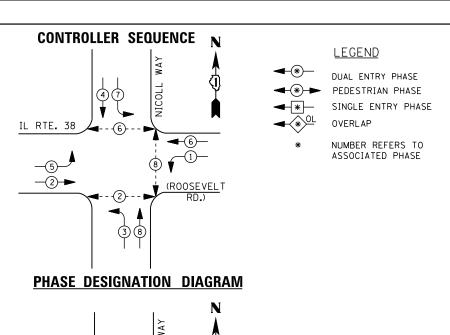
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TS# 20335





IL RTE. 38

**-**(3)**-**►

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**⋖**-3)—

(ROOSEVELT

EMERGENCY VEI	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

		I. D. O	. T.						
	TRAFFIC S	I GNAL I	NSTALLA	TION					
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	13	1 35	17	0.50	111				
(YELLOW)	13	1 35	25	0.25	82				
( GREEN)	13	1 35	15	0.25	49				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL	6	90	25	1.00	150				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	512				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANT I TY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO

PARK BLVD.

TRACER CABLE -

IL RTE. 38

NO. 6-GREEN

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

6 EACH PEDESTRIAN SIGNAL HEAD

4 EACH PEDESTRIAN PUSH-BUTTON

-NO. 6 GREEN

**CABLE PLAN** 

NOTES:
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

NO. 6-

R > G

(ROOSEVELT RD.)

GREEN

MAY

(E/S)

NICOLL

->-

D--0--(I

GLEN	1 ELL	_YN
COUNTY	TOTAL SHEETS	SHEET NO.
DUPAGE 88		43
CONTRACT	NO. 6	owoo

TS# 20631

INTERCONNECT TO

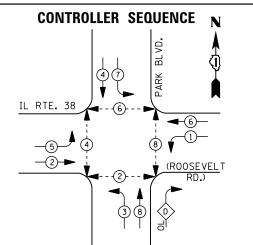
- TRACER CABLE

- EXISTING
INTERSECTION
AND SAMPLING
(SYSTEM)
DETECTORS

BAKER HILL DR.

	COMMONWEALTH EDISON	_												GLEN E	ELLYN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				IL ROUT	E 38 AT	NICOLL WAY		F.A. RTF.	SECTION	COUNTY TOT	TAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	20631_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	sc					IGNATION DIAGRAM		2012-082TS	DUPAGE 8	38 43
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		_		CONTRACT NO.	. 60woo				
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A		



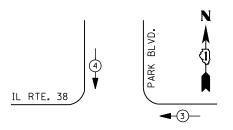


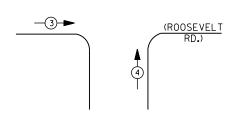
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVER	LAP	PERMISS	SIVE	PROTECTED
LETTE	R	PHASE		PHASE

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEI	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	

		1. D. O							
TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	14	1 35	1 7	0.50	119				
(YELLOW)	14	1 35	25	0.25	88				
( GREEN)	14	1 35	15	0.25	53				
ARROW	20	1 35	12	0.10	24				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
				TOTAL =	584				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

630-424-5704 PHONE

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### \$\\ \( \) $\mathbb{R} \searrow \mathbb{G} \stackrel{\times}{\downarrow} \mathbb{G}$ TRACER CABLE IL RTE. 38 (ROOSEVELT RD.) GREEN EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS **⅓.** □ C INTERCONNECT TO MAIN ST. (GLEN ELLYN) TRACER CABLE -- NO. 6 GREEN **CABLE PLAN** TAFT AVE. 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

NO. 6-

GREEN

BL VD.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD

EACH PEDESTRIAN PUSH-BUTTON

TS# 20632 GLEN ELLYN

INTERCONNECT TO

NICOLL WAY

									GLEN ELLIN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT PARK BOULEVARD	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	20632_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	INTE.	2012-082TS	DUPAGE 88 44
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -	7	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\neg$	ILLINOIS FED.	



DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

=

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERL	_AP	PERMISS	IVE	PROTECTED
LETTE	R	PHASE		PHASE

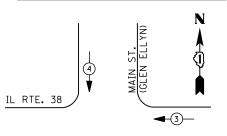
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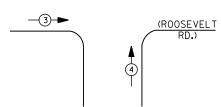
#### PHASE DESIGNATION DIAGRAM

**CONTROLLER SEQUENCE** 

IL RTE. 38

<del>(5)</del> **-(2) →** 





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEI	HICLE PRE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>—</b>	<b>↓</b> ↑		

		I. D. O							
	TRAFFIC S	I GNAL I	NSTALLA	TION					
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	13	1 35	17	0.50	111				
(YELLOW)	13	1 35	25	0.25	82				
( GREEN)	13	1 35	15	0.25	49				
ARROW	20	1 35	12	0.10	24				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	566				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

1 FOOT MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	
1 EACH DRILL EXISTING HANDHOLE	
4 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN	TIMER
1 EACH MODIFY EXISTING CONTROLLER CABINET	
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL	
4 EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING	

NO. 6-GREEN INTERCONNECT TO PARK BLVD. MAIN (GLEN E \$\\ \( \) R > (3)(\$)(\$) -TRACER CABLE IL RTE. 38 (ROOSEVELT RD.) -EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS -NO. 6 D-0-(1  $\mathbb{E}\left[\mathbb{E}\left[\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\right)\right)}\right)\right)\right)}\right)\right)\right)\right)}\right| \mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\right)\right)\right)\right)\right)\right) \right) \right) \right) | \mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{E}\left(\mathbb{$ INTERCONNECT TO LAMBERT RD. TRACER CABLE GREEN **CABLE PLAN** UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD

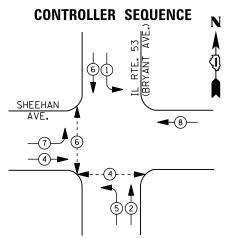
PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4
PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6
PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8
PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

4 EACH PEDESTRIAN PUSH-BUTTON

TS# 21255 GLEN ELLYN

		-								GLEN ELLYN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 38 AT MAIN STREET	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	.21255_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 45
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012 00210	CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	

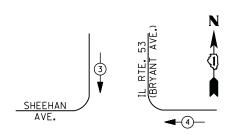


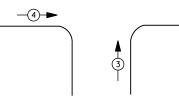


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### **PHASE DESIGNATION DIAGRAM**





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>↓</b> ↑	<b>←</b>

		1. D. O								
	TRAFFIC S	I GNAL I	NSTALLA	TION						
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	10	1 35	17	0.50	85					
(YELLOW)	10	1 35	25	0.25	63					
( GREEN)	10	1 35	15	0.25	38					
ARROW	12	1 35	12	0.10	15					
PED. SIGNAL	4	90	25	1.00	100					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	1					
FLASHER LED										
				TOTAL =	401					

ENERGY COSTS-

BILLED TO: THE VILLAGE OF GLEN ELLYN 535 DUANE STREET

GLEN ELLYN, IL 60137

CONTACT JOE STACHO ENERGY SUPPLY -PHONE 630-424-5704

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### INTERCONNECT TO PERSHING AVE NO. 6 TRACER CABLE -GREEN IL RTE (BRYANT R Y G R Y G ←Y ←G R Y G ←Y ←G ↑ ↑ O ≺ ਸ਼ _ œ ≻ ∪ SHEEHAN AVE. NO. 6 GREEN _ œ ≻ ∪ ۲ ۲ R R Я **≫ ●** -NO. 6 GREEN **CABLE PLAN** RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

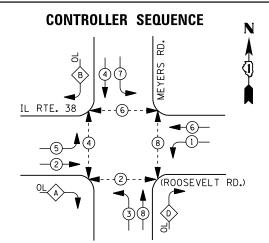
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- EACH PEDESTRIAN SIGNAL HEAD
- 3 EACH PEDESTRIAN PUSH-BUTTON

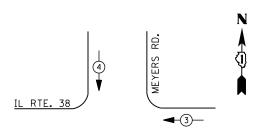
TS# 21505 GLEN ELLYN

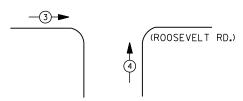
											0	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 53 AT SHEEHAN AVENUE		F.A. RTF	SECTION	COUNTY	TOTAL SHEET
$N: \Projects 3 \12062 \Design CAD \Sheet Files$	\21505_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SC	HEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNA			2012-082TS	DUPAGE	88 46
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQU	ENCE			CONTRACT	NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT	





#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	<b>↓</b> ↑

	I. D. O. T.								
	TRAFFIC S	I GNAL I	NSTALLA	TION					
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	17	0.50	153				
(YELLOW)	18	1 35	25	0.25	113				
( GREEN)	18	1 35	15	0.25	68				
ARROW	28	1 35	12	0.10	34				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	668				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON **LEGEND** 

DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

2	IGHT	TURN	OVERLAP	PHASE	DESIG	NATION
	OVER	LAP	PERMISS	SIVE	PROTE	ECTED
	LET1	ΓER	PHAS	E	PHA	ASE
	Α	=	2	+	•	3
	В	=	4	+		5
	n	_	0			1

# **SCHEDULE OF QUANTITIES**

<u>Q</u>	<u>UANT I TY</u>	<u>UNIT</u>	<u>I TEM</u>
	10	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
	1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
	1	EACH	DRILL EXISTING HANDHOLE
	8	EACH	PEDESTRIAN PUSH-BUTTON
	1	EACH	MODIFY EXISTING CONTROLLER CABINET
	1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
	1	EACH	UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED

INTERCONNECT TO

LOMBARD SC

TRACER CABLE

IL RTE. 38 (ROOSEVELT RD.)

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

**CABLE PLAN** 

8 EACH PEDESTRIAN PUSH-BUTTON

NO. 6

GREEN

**₹** 

8

MEYERS

UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED".

TS# 6190 LOMBARD

2" UNDERGROUND CONDUIT, GALVANIZED STEEL

INTERCONNECT TO

VILLA OAKS DR.

TRACER CABLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	
N:\Projects3\12062\DesignCAD\Sheet Files	6190_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF T
	PLOT DATE = 2/5/2013	DATE -		REVISED -	

ILLINOIS **TRANSPORTATION** 

SCHEI	DULE OF QUANT	TITIES, (		I, PHASE D	AD DESIGNATION DIAGRAM N SEQUENCE
SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.

COUNTY TOTAL SHEET NO.

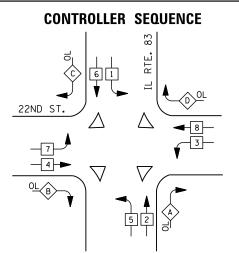
DUPAGE 88 47 SECTION 2012-082TS CONTRACT NO. 60W00

-NO. 6 GREEN

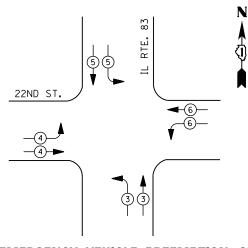
T

GREEN





#### PHASE DESIGNATION DIAGRAM



#### RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE LETTER PHASE Α

**LEGEND** 

OVERLAP

DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6			
MOVEMENT	1		J L	<b>—</b>			

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	29	1 35	1 7	0.50	247					
(YELLOW)	29	1 35	25	0.25	181					
( GREEN)	29	1 35	15	0.25	109					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	1	150	-	1.00	150					
FLASHER LED										

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

806

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

RTATION

TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM

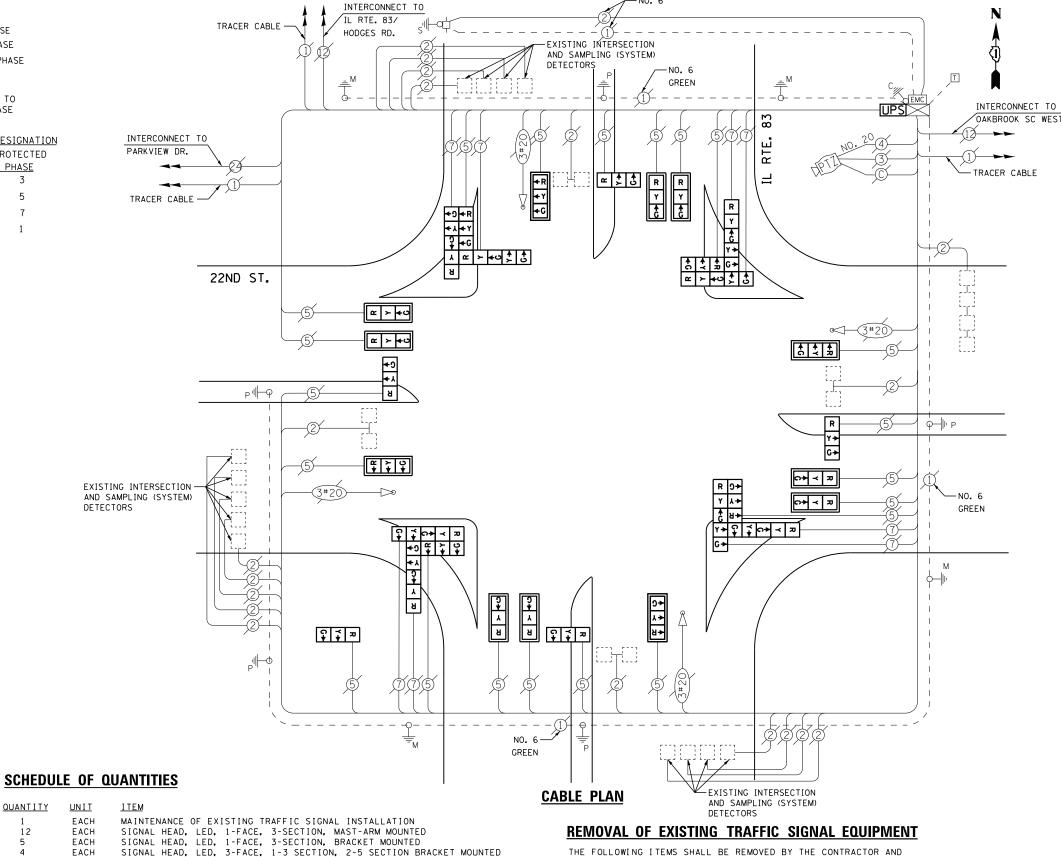
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

MODIFY EXISTING CONTROLLER CABINET

IL ROUTE 83 AT 22ND STREET SECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2012-082TS SCALE: N.T.S. SHEET NO. OF SHEETS STA.

TS# 550 OAK BROOK COUNTY TOTAL SHEET NO. DUPAGE 88 48



THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 3 - FACE, 1-3 SECTION, 2-5-SECTION 17 EACH

EACH TRAFFIC SIGNAL BACKPLATE 12 EACH

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	
N:\Projects3\12062\DesignCAD\Sheet Files	550_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORT
	DLOT DATE - 2/5/2012	DATE -		DEVISED -	

QUANTITY

<u>UNIT</u>

F∆CH

FACH FACH

EACH

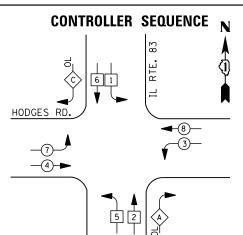
EACH

EACH

EACH

CONTRACT NO. 60W00





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

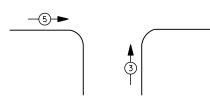
REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

	RIGHT	TURN 0	VERLAF	PHASE	DESIGN	ATION
OVERL	AP	PERMISSI	VE	PROTEC	TED	DISPLAY
LETTER	?	PHASE		PHAS	E	PHASE
Α	=	2	+	3	-	2
_		_		-		_

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5			
MOVEMENT	1	•	<b>←</b>			

	I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	22	1 35	17	0.50	187					
(YELLOW)	22	1 35	25	0.25	138					
( GREEN)	22	1 35	15	0.25	83					
ARROW	16	1 35	12	0.10	19					
PED. SIGNAL	i	90	25	1.00						
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	Î	150	-	1.00						
FLASHER LED										
				TOTAL =	527					

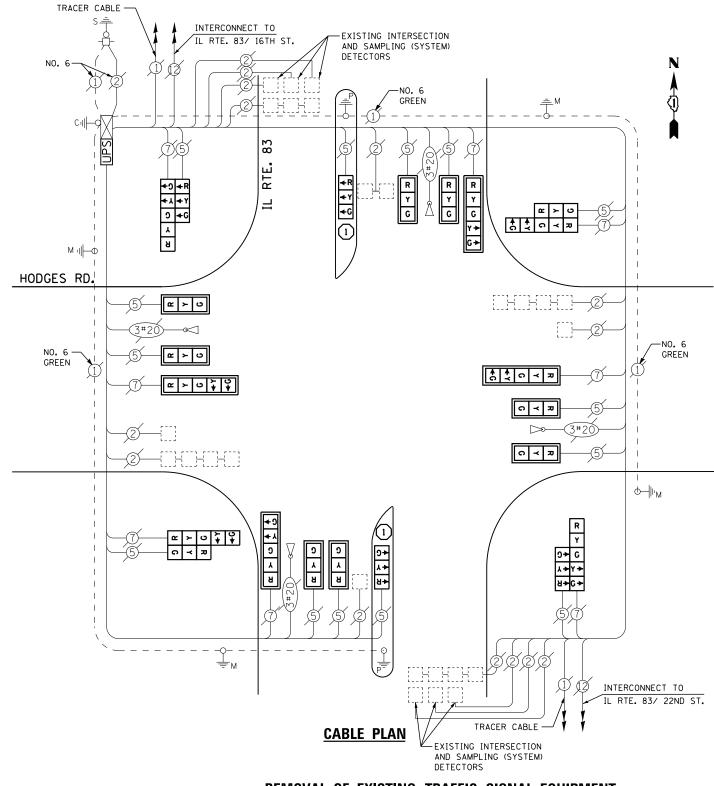
ENERGY COSTS-BILLED TO: OAKBROOK SHOPPING CENTER

CONTACT JOE STACHO ENERGY SUPPLY -630-424-5704 PHONE

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL



#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION 10 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION SIGNAL HEAD, 2 - FACE, 1 - 3 - SECTION, 4 EACH 4 EACH - 5 - SECTION

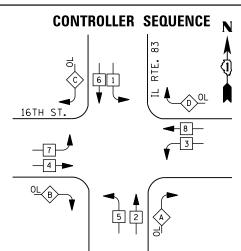
12 EACH TRAFFIC SIGNAL BACKPLATE

2 EACH SIGNAL POST

> TS# 620 OAK BROOK

										•		
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 83 AT HODGES ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet File:	620_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	49
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

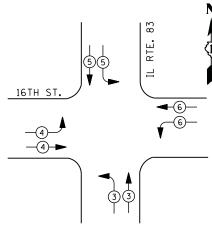
TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

IGHT	TURN	OVERLAP	PHASE	DESIGNATION	

OVERL LETTE		PERMISSIVE PHASE		PROTECTED PHASE		DISPLAY PHASE
Α	=	2	+	3	-	2
В	=	4	+	5	-	4
С	=	6	+	7	-	6
D	=	8	+	1	-	8

#### PHASE DESIGNATION DIAGRAM



55	1L RTE. 83
♠	<b>4</b> .6− <b>6</b> −

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6			
MOVEMENT	<b>T</b>		<b> </b>				

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	22	1 35	17	0.50	187				
( YELLOW)	22	1 35	25	0.25	138				
( GREEN)	24	1 35	15	0.25	90				
ARROW	12	1 35	12	0.10	14				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00	-				
FLASHER LED									
				TOTAL =	529				

ENERGY COSTS-

BILLED TO: OAKBROOK SHOPPING CENTER

ENERGY SUPPLY -

N:\Projects3\12062\DesignCAD\Sheet Files\625_CAB_DUPAGE.dgn

FILE NAME =

CONTACT JOE STACHO PHONE 630-424-5704

PLOT DATE = 2/5/2013

COMMONWEALTH EDISON

USER NAME = \$USER\$ DESIGNED

DRAWN

DATE

CHECKED

DW

JDH

KMM

#### **SCHEDULE OF QUANTITIES**

REVISED

REVISED

REVISED

REVISED

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
8	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED. 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
12	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

THE FOLLOWING 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.

1.0	FACU	CLONAL HEAD A FACE 7 CECTION
10	EACH	SIGNAL HEAD, 1 - FACE, 3 - SECTION
1	EACH	SIGNAL HEAD, 1 - FACE, 4 - SECTION
3	EACH	SIGNAL HEAD, 1 - FACE, 5 - SECTION
1	EACH	SIGNAL HEAD, 2 - FACE, 1 - 3 - SECTION, 1 - 4 - SECTION
3	EACH	SIGNAL HEAD, 2 - FACE, 1 - 3 - SECTION, 1 - 5 - SECTION
12	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SIGNAL POST

TS# 625 OAK BROOK

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

IL ROUTE 83 AT 16TH STREET SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

OAK DIVO									
SECT	TION			COUNTY	TOTAL SHEETS	SHEET NO.			
2012-082TS				DUPAGE	88	50			
				CONTRACT	NO. 6	OWOO			
	ILL INOIS	FFD.	ΔID	PROJECT					

Ø\$	. 83	X	
 	RTE.	RR	1
+			
Ä			
16TH ST.	V		
3#20 ~ S			NO. 6 GREEN
		5	
<u> </u>		<b>□</b> 3*20	
2—[H]H]			
		R	
		9→ G	
	# <del>*</del> # # # # # # # # # # # # # # # # # # #	A → Y →       B → G →	
		\$77	
	NO. 6 GREEN		
	NO. 6	TRACER CABLE HO	DDGES RD.
s'll-of-			
	CABLE PLAN	EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS	
GNAL INSTALLATION EEL 14 FT.	REMOVAL OF EXISTING	TRAFFIC SIGNAL EQUIPME	<u>NT</u>

EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

-NO. 6 GREEN

DETECTORS



COMMONWEALTH EDISON

USER NAME = \$USER\$

PLOT DATE = 2/5/2013

N:\Projects3\12062\DesignCAD\Sheet Files 6295_CAB_DUPAGE.dgn

FILE NAME =

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

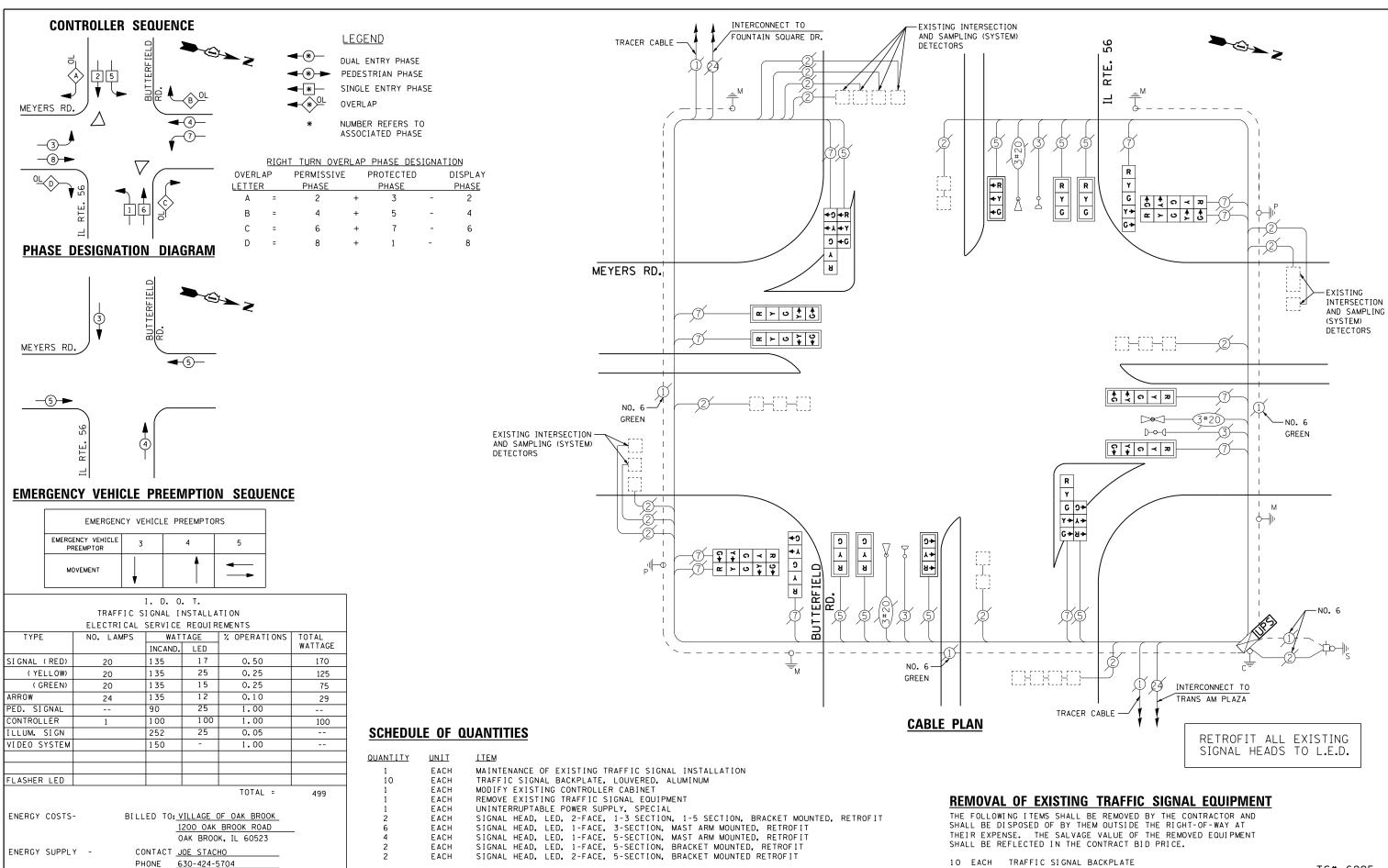
КММ

REVISED

REVISED

REVISED

REVISED



STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

OAK BROOK

COUNTY TOTAL SHEETS NO.

DUPAGE 88 51

CONTRACT NO. 60W00

SECTION

2012-082TS

IL ROUTE 56 AT MEYERS ROAD

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM

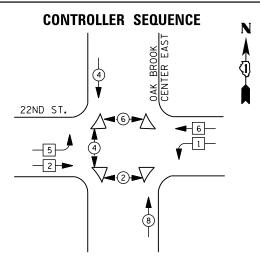
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

SHEET NO. OF SHEETS STA.

SCALE: N.T.S.

TS# 6295





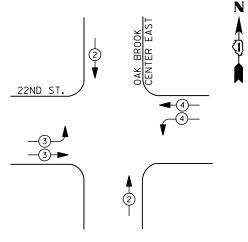
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

INTERCONNECT TO

CENTER WEST

#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE 2 3 4								
MOVEMENT	<b>†</b> ↓		<b>—</b>					

I D O T

1. D. O. 1.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	16	1 35	17	0.50	136				
(YELLOW)	16	1 35	25	0.25	100				
( GREEN)	16	1 35	15	0.25	60				
ARROW		1 35	12	0.10					
PED. SIGNAL	6	90	25	1.00	150				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	546				

ENERGY COSTS-

BILLED TO: VILLAGE OF OAK BROOK

OAK BROOK. IL 60523

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE

COMMONWEALTH EDISON

1200 OAK BROOK ROAD

546

630-424-5704

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

#### INTERCONNECT TO 22ND ST./ SPRING RD. 22ND ST./ OAK BROOK - TRACER CABLE TRACER CABLE **≫**• 22ND ST. EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS NO. 6 GREEN -(5)φ-|li p -EXISTING INTERSECTION AND SAMPLING (c)(~)(z) (SYSTEM) DETECTORS **≫** • I M ФЩI NO. 6-GREEN **CABLE PLAN** 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

GREEN

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

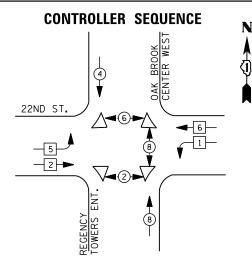
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

TS# 14491 OAK BROOK

	·									UAK	, BK	KUUK
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			22ND STREET AT OAK BROOK CENTER EAST	F.A.	SECTION	COUNTY	TOTAL	L SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	14491_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-082TS	DUPAGE	88	52
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 1	60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

INTERCONNECT TO

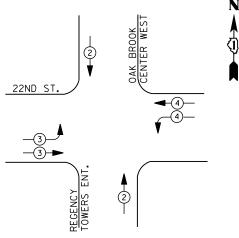
TRACER CABLE

22ND ST.

NO. 6-GREEN

IL RTE. 83

### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	2	3	4					
MOVEMENT	1	1	<b>—</b>					

		I. D. O							
TRAFFIC SIGNAL INSTALLATION									
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	16	1 35	1 7	0.50	136				
(YELLOW)	16	1 35	25	0.25	100				
( GREEN)	16	1 35	15	0.25	60				
ARROW		1 35	12	0.10					
PED. SIGNAL	6	90	25	1.00	150				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00	1				
FLASHER LED									
				TOTAL =	546				

ENERGY COSTS-

BILLED TO: VILLAGE OF OAK BROOK 1200 OAK BROOK ROAD

OAK BROOK, IL 60523

CONTACT JOE STACHO ENERGY SUPPLY -

630-424-5704 PHONE

#### **SCHEDULE OF QUANTITIES**

QUANTITY <u>UNIT</u> MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
MODIFY EXISTING CONTROLLER CABINET FACH FACH FACH EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT FACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

## REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

OAK BROOK CENTER WEST

-5)-

φ-|li p

ФЩ

-NO. 6

GREEN

RYG

NOTES:

(E > C)

NO. 6 GREEN

**CABLE PLAN** 

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

- (m) > (o)

THE FOLLOWING 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.

6 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

0 ¥ ⊃ **4** /D C

TS# 14492

INTERCONNECT TO

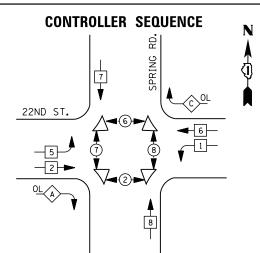
- TRACER CABLE

CENTER EAST

22ND ST./ OAK BROOK

		COMMONWEALTH EDISON	_													OAŁ	K BROOK
FILE NAME =		USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			22ND	STREET	T AT OAK	BROOK	CENTER	WEST	F.A. RTF.	SECTION	COUNTY	TOTAL SHEE
N:\Projects3\12062\	\DesignCAD\Sheet Files	14492_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM							2012-082TS	DUPAGE	88 53		
		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EN	/IERGENC			VIPTION S				CONTRAC	T NO. 60W00
		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEET	S ST	Α.	TO STA.		ILLINOIS FED. A	ID PROJECT	





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

INTERCONNECT TO

CENTER EAST

22ND ST./ OAK BROOK

TRACER CABLE

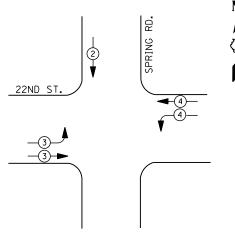
22ND ST.

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERL	_AP	PERMISS	IVE	PROTECTED
LETTE	R	PHASE		PHASE
Α	=	2	+	8

C.

#### PHASE DESIGNATION DIAGRAM



22ND ST.	SPRING RD.	
	<b>√</b> ⁴ -	

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENC	Y VEHICLE	PREEMPTOR	S
EMERGENCY VEHICLE PREEMPTOR	2	3	4
MOVEMENT	•		<b>—</b>

1. D. O. 1.										
	TRAFFIC S	I GNAL I	NSTALLA	TION						
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	18	1 35	1 7	0.50	153					
(YELLOW)	18	1 35	25	0.25	113					
( GREEN)	20	1 35	15	0.25	75					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: VILLAGE OF OAK BROOK 1200 OAK BROOK ROAD

OAK BROOK, IL 60523

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

TOTAL =

651

EMERGENC'	Y VEHICLE	PREEMPTOR	S
EMERGENCY VEHICLE PREEMPTOR	2	3	4
MOVEMENT	<b> </b>	<u></u>	

### SCHEDULE OF QUANTITIES

QUANTITY <u>ITEM</u> <u>UNIT</u> EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER EACH EACH MODIFY EXISTING CONTROLLER CABINET REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL PEDESTRIAN PUSH-BUTTON, NON-LATCHING

## **CABLE PLAN**

NO. 6 GREEN

NOTES: PUSH BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 7 PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 7 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

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

8

SPRING

GREEN

G ¥₽

□¥ ⊃**4** → •

(F) (F)

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

TS# 14493 OK SHEET NO. 54 WOO

- NO. 6

INTERCONNECT TO

22ND ST./ Mc

DONALD'S DR.

-TRACER CABLE

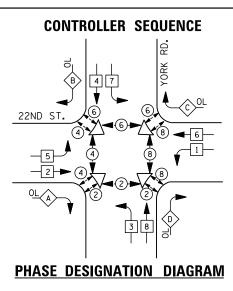
NO. 6 GREEN

d—li₁ F

**UPS** 

	COMMONWEALTH EDISON	<u>L</u>								0A	K BRO	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			22ND STREET AT SPRING ROAD	F.A.	SECTION	COUNTY	TOTAL	SHEE
N:\Projects3\12062\DesignCAD\Sheet Files	14493_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEI	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	10.12	2012-082TS	DUPAGE	88	54
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRAC		60W0C
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FEE	D. AID PROJECT		





DUAL ENTRY PHASE

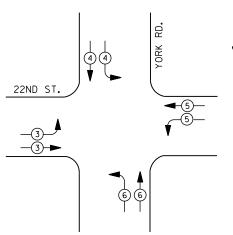
PEDESTRIAN PHASE

SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

DIGUT	TUDA	0VED: 4D	DULCE	DECIONATION
RIGHT	TURN	UVERLAP	PHASE	DESIGNATION

OVERL	AΡ	PERMISSIVE		PROTECTED		DISPLA
ETTER	7	PHASE		PHASE		PHASE
Α	=	2	+	3	-	2
В	=	4	+	5	-	4
С	=	6	+	7	-	6
D	=	8	+	1	_	8



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	5	5					
MOVEMENT		J L-	<b>—</b>	<b>-</b>				

		I.	D.	0.	T.		
TF	RAFFIC S	SIGN	NAL	INS	TALL	ATION	
ELEC	CTRICAL	SEF	RVIC	ER	EQUI	REMENTS	

	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	22	1 35	17	0.50	187				
(YELLOW)	22	1 35	25	0.25	138				
( GREEN)	22	1 35	15	0.25	83				
ARROW	16	1 35	12	0.10	19				
PED. SIGNAL	16	90	25	1.00	400				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF OAK BROOK 1200 OAK BROOK ROAD

OAK BROOK, IL 60523

CONTACT JOE STACHO 630-424-5704 PHONE

COMMONWEALTH EDISON

TOTAL =

SCHEDULE OF QUANTITIES

			B STALL FEAGE A GALL IN THASES I AND G
QUANTITY	UNIT	LIEM	"C" SHALL PLACE A CALL IN PHASES 6 AND 8
1	FACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	"D" SHALL PLACE A CALL IN PHASES 2 AND 8
4	EACH	MAINTENANCE OF LAISTING THAT IS STORMED INSTRUMENT WITH COUNTDOWN TIMER PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	
1	EACH	MODIFY EXISTING CONTROLLER CABINET	REMOVAL OF EXISTING TRAI
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	THE FOLLOWING ITEMS SHALL BE REM SHALL BE DISPOSED OF BY THEM OUT:
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT	THEIR EXPENSE. THE SALVAGE VALUE
2	EACH	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION, BRACKET MOUNTED, RETROFIT	SHALL BE REFLECTED IN THE CONTRA
10	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	16 EACH PEDESTRIAN SIGNAL HEA
8	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING	8 EACH PEDESTRIAN PUSH-BUTTO

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

TRACER CABLE

-5)-

G ≺ R

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THE FOLLOWING 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.

-EXISTING INTERSECTION

AND SAMPLING (SYSTEM)

GREEN

R R Y G G Y+

DETECTORS

INTERCONNECT TO

+9 +R **←** 从 **←** Y 9 **4**G

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**CABLE PLAN** 

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

PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

NO. 6 GREEN

ว ว

TOLLWAY RAMP

D-0-()

TRACER CABLE -

**UPS** 

22ND ST.

NO. 6 GREEN

EXISTING INTERSECTION -AND SAMPLING (SYSTEM) DETECTORS

TS# 14495

INTERCONNECT TO

WINDSOR DR.

-TRACER CABLE

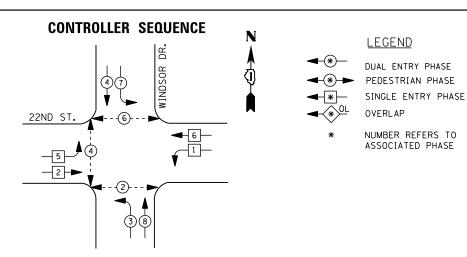
INTERCONNECT TO DOVER DR.

RETROFIT ALL EXISTING

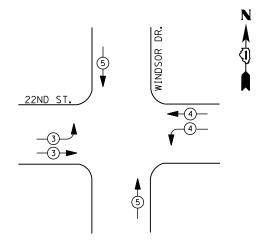
SIGNAL HEADS TO L.E.D.

		COMMONWEALTH EDISON	<u> </u>													OAŁ	K BR	OOK
FILE NAME =		USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				22ND	STREET	T AT YO	RK ROAD		F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\1206	62\DesignCAD\Sheet Files	14495_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	so						IGNATION DIAGRAM		2012-082TS	DUPAGE	88	55
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	IERGENCY	Y VEHIC	CLE PREE	EMPTION	SEQUENCE			CONTRAC	T NO.	60W00
		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHE	ETS S	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT		





#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	Y VEHICLI	E PREEMPTO	₹S
EMERGENCY VEHICLE PREEMPTOR	3	4	5
MOVEMENT	1		<b>↓</b> †

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	18	1 35	1 7	0.50	153					
(YELLOW)	18	1 35	25	0.25	113					
( GREEN)	18	1 35	15	0.25	68					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	1 00	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00						
FLASHER LED										
	TOTAL = 594									

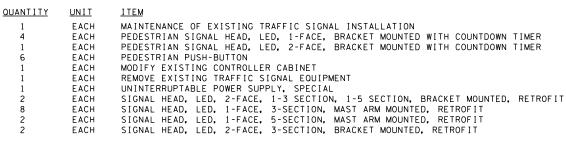
ENERGY COSTS-

BILLED TO: VILLAGE OF OAK BROOK 1200 OAK BROOK ROAD

OAK BROOK, IL 60523 ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

**SCHEDULE OF QUANTITIES** 



INTERCONNECT TO

YORK RD.

TRACER CABLE

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

EACH PEDESTRIAN SIGNAL HEAD

NO. 6-

GREEN

R

Y G +Y +G

A

NO. 6 GREEN

**CABLE PLAN** 

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22ND ST.

R

WINDSOR

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INTERCONNECT TO

-TRACER CABLE

WEST RAMP

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D

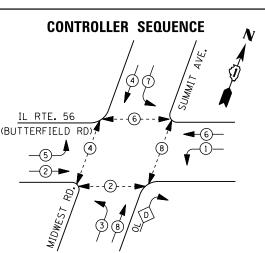
R Y G

PEDESTRIAN PUSH-BUTTON EACH

SHEET NO. 56 WOO

		COMMONWEALTH EDISON	_													OA	K BF	1497 ROOI
F	ILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				22ND S	TREET AT	r win	NDSOR DRIVI	E	F.A. RTE.	SECTION	COUNTY		AL SHE
N ^c	:\Projects3\12062\DesignCAD\Sheet Files	14497_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH						GNATION DIAGRAM		2012-082TS	DUPAGE	88	5
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EN	WERGENC	Y VEHICL	E PRE	EEMPTION S	SEQUENCE			CONTRAC	T NO.	60WC
L		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEE	TS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





DUAL ENTRY PHASE PEDESTRIAN PHASE

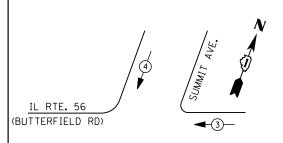
SINGLE ENTRY PHASE

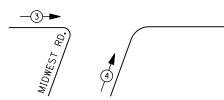
603

NUMBER REFERS TO ASSOCIATED PHASE

IGHT TURN	OVERLAP	PHASE	DESIGNATION			
OVERLAP	PERMISS	IVE	PROTECTED			
LETTER	PHASE		PHASE			

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PREE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<del></del>	<b> </b>

I. D. O. T.										
	TRAFFIC S	I GNAL I	NSTALLA	TION						
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	15	1 35	1 7	0.50	128					
(YELLOW)	15	1 35	25	0.25	94					
( GREEN)	15	1 35	15	0.25	57					
ARROW	20	1 35	12	0.10	24					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00	1					
FLASHER LED										
				TOTAL =	603					

ENERGY COSTS-BILLED TO: ENERGY SUPPLY -CONTACT JOE STACHO PHONE 630-424-5704

### **SCHEDULE OF QUANTITIES**

INTERCONNECT TO

BUTTERFIELD ST.

TRACER CABLE -

22ND ST./

NO. 6-GREEN

<u>QUANT I T Y</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

IL RTE. 56 (BUTTERFIELD RD)

THE FOLLOWING 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.

EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

**CABLE PLAN** 

INTERCONNECT TO

TRACER CABLE

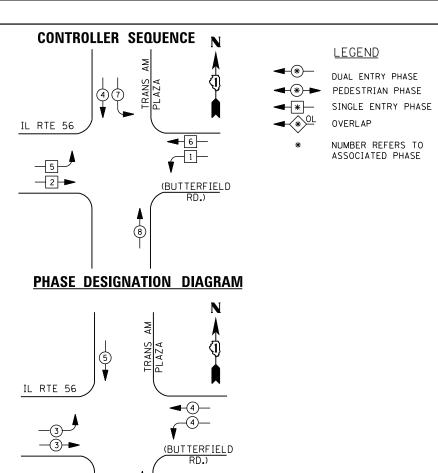
MYRTLE AVE./ MacARTHUR

GREEN

	CONTACT <u>JOE STACHO</u>	_		6 EACH	EDESTRIAN FUSH-BUTTON, NON-LATCHING			
	PHONE 630-424-5704  COMMONWEALTH EDISON	_ _					TS# 6300	DDACE
		I		T		T	15.	RRACE TAL   SHEET
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 56 AT SUMMIT AVENUE /MIDWEST ROAD	RTE. SECTION COUNTY SHE	EETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files	.6300_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-082TS DUPAGE 8	88 57
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE	CONTRACT NO	0. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

) **4** 





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE 3 4 5									
MOVEMENT			<b> </b>						

	I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	16	1 35	17	0.50	136						
(YELLOW)	16	1 35	25	0.25	100						
( GREEN)	16	1 35	15	0.25	60						
ARROW	4	1 35	12	0.10	5						
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	1 00	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
	TOTAL = 401										

ENERGY COSTS-

BILLED TO: TTAP, LLC

c/o BROE REAL ESTATE

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

### **SCHEDULE OF QUANTITIES**

**QUANTITY** <u>UNIT</u>

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH

EACH

MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERCONNECT TO

IL RTE. 56

NO. 6-GREEN

MEYERS RD.

TRACER CABLE

EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

TS# 6345 OAKBROOK TERRACE

INTERCONNECT TO

└─ TRACER CABLE

- EXISTING
INTERSECTION
AND SAMPLING
(SYSTEM)
DETECTORS

-NO. 6 GREEN

22ND ST./ BUTTERFIELD ST.

								•	OANDINOON	1 - 1 11 17	, C L
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 56 AT TRANS AM PLAZA	F.A.	SECTION	COUNTY	TOTAL S	SHEET
$N:\Projects 3\12062\Design CAD\Sheet\ Files$	6345_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	58
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 60	woo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		TI I INOIS	EED AID PROJECT		

TRANS AM PLAZA

(R) Y) G

(c) (x)

NO. 6-

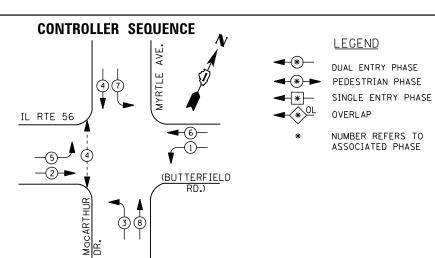
**CABLE PLAN** 

- R > G

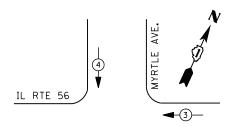
(BUTTERFIELD RD.)

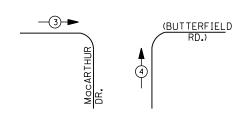
GREEN





#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE PREEMPTOR	3	4						
MOVEMENT	<b>+</b>	<b> </b>						

I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	13	1 35	1 7	0.50	111					
(YELLOW)	13	1 35	25	0.25	82					
( GREEN)	13	1 35	15	0.25	49					
ARROW	16	1 35	12	0.10	20					
PED. SIGNAL	2	90	25	1.00	50					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00						
FLASHER LED										
				TOTAL =	412					

ENERGY COSTS-

BILLED TO: CITY OF OAKBROOK TERRACE 17W275 BUTTERFIELD ROAD

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE

COMMONWEALTH EDISON

OAKBROOK TERRACE, IL 60181

630-424-5704

## **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERCONNECT TO SUMMIT AVE./ MIDWEST RD.

TRACER CABLE

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

(BUTTERFIELD RD.)

THE FOLLOWING 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.

2 EACH PEDESTRIAN SIGNAL HEAD 2 EACH PEDESTRIAN PUSH-BUTTON

NO. 6-

GREEN

AVE.

MYRTLE

Ŗ.

Macarthur

NO. 6-

GREEN

**CABLE PLAN** 

TS# 7800 OAKBROOK TERRACE

GREEN

								· ·	JANDROUK	TERRACE
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 56 AT MYRTLE AVENUE/MacARTHUR DRIVE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	7800_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	N.	2012-082TS	DUPAGE	88 59
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				T NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILL INOIS F	FED. AID PROJECT	

IL RTE. 56





IL RTE. 38 **4**-6 −

(ROOSEVELT RD.)

#### PHASE DESIGNATION DIAGRAM

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED LETTER PHASE PHASE

> I. D. O. T. TRAFFIC SIGNAL INSTALLATION

TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW		1 35	12	0.10						
PED. SIGNAL	2	90	25	1.00	50					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00						
FLASHER LED										

ENERGY COSTS-

BILLED TO: CITY OF OAKBROOK TERRACE

17W275 BUTTERFIELD ROAD OAKBROOK TERRACE, IL 60181

ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON

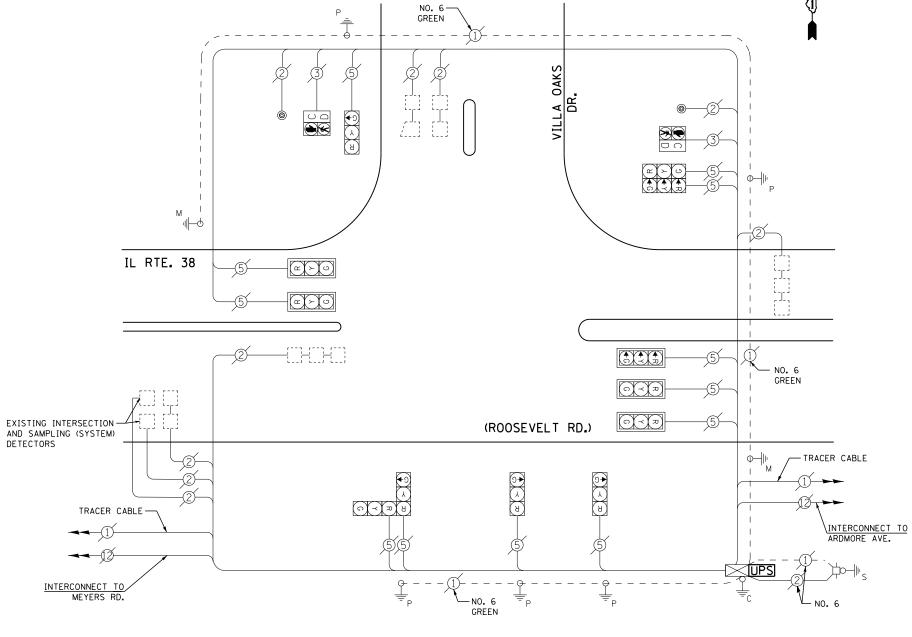
TOTAL =

372

**LEGEND** 

DUAL ENTRY PHASE * PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE



#### **CABLE PLAN**

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> <u>UNIT</u> <u>ITEM</u>

EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION EACH MODIFY EXISTING CONTROLLER CABINET

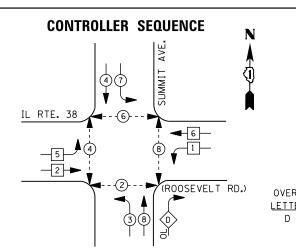
EACH

UNINTERRUPTABLE POWER SUPPLY, SPECIAL

TS# 15305 OAKBROOK TERRACE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	27477 25 11111012		IL ROUTE 38 AT VILLA OAKS DRIVE	F.A. RTE.	SECTION	COUNTY TOTAL SHEETS NO.
N:\Projects3\12062\DesignCAD\Sheet Files	15305_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 60
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

D

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN OVER	<u>RLAP PHASE DESIG</u>	<u>NATION</u>
RLAP	PERMISSIVE	PROTECTED	DISPLA
ER	PHASE	PHASE	PHASE

GREEN

-NO. 6

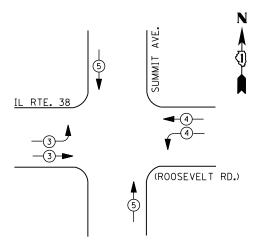
INTERCONNECT TO COURTYARD MALL

TRACER CABLE

IL RTE. 38 (ROOSEVELT RD)

NO. 6 — GREEN

#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	CY VEHICLI	E PREEMPTO	RS				
EMERGENCY VEHICLE PREEMPTOR							
MOVEMENT		<b>—</b>	<b>↓</b> †				

	I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION											
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	18	1 35	17	0.50	153						
(YELLOW)	18	1 35	25	0.25	113						
( GREEN)	18	1 35	15	0.25	68						
ARROW	14	1 35	12	0.10	17						
PED. SIGNAL	8	90	25	1.00	200						
CONTROLLER	1	1 00	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05	-						
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
				TOTAL =	651						

ENERGY COSTS-

BILLED TO: VILLAGE OF VILLA PARK 20 S. ARDMORE AVENUE

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

VILLA PARK, IL 60181-2696

### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**≯** • C

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

THE FOLLOWING 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.

EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON

-NO. 6 GREEN

**CABLE PLAN** 

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

-NO. 6 GREEN

⊃ <u>0</u>

B

TS# 6195 VILLA PARK

-NO. 6

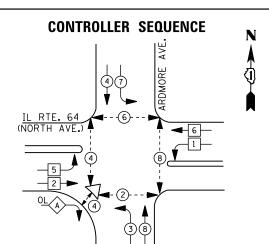
GREEN

-EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

									V 1 L L		VIVIX .
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT SUMMIT AVENUE	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	.6195_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1,,,,,	2012-082TS	DUPAGE	88	61
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	50W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	_	ILL INOIS FF	D AID PROJECT		





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE

A =

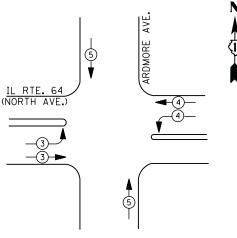
NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED <u>LETTER</u> PHASE PHASE

3

2

#### PHASE DESIGNATION DIAGRAM



IL RTE. 64 (NORTH AVE.)	ARDMORE AVE.	N A T
	\$ 5	

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS									
EMERGENCY VEHICLE PREEMPTOR	3	4	5						
MOVEMENT		<b>—</b>	<b>1</b>						

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	20	1 35	17	0.50	170					
(YELLOW)	20	1 35	25	0.25	125					
( GREEN)	20	1 35	15	0.25	75					
ARROW	12	1 35	12	0.10	15					
PED. SIGNAL	10	90	25	1.00	250					
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										

ENERGY COSTS-

ENERGY SUPPLY -

BILLED TO: VILLAGE OF VILLA PARK 20 S. ARDMORE AVENUE

VILLA PARK, IL 60181-2696

CONTACT JOE STACHO 630-424-5704 PHONE

TOTAL =

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

## NO. 6— GREEN INTERCONNECT TO VILLA AVE. ARDMORE TRACER CABLE IL RTE. 64 (NORTH AVE.) NO. 6-GREEN **බ** ''A2'' **№** C INTERCONNECT TO MICHIGAN AVE. ၁ဝ TRACER CABLE ÷Ρ NO. 6-GREEN **CABLE PLAN**

PUSH BUTTON "A1" SHALL PLACE A CALL IN PHASE 4 PUSH BUTTON "A2" SHALL PLACE A CALL IN PHASES 2 AND 4 PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8 PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

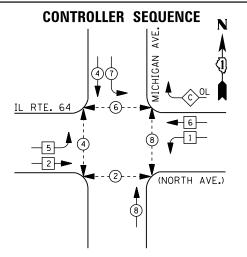
## REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

10 EACH PEDESTRIAN SIGNAL HEAD 6 EACH PEDESTRIAN PUSH-BUTTON

	PHONE 630-424-5704			2		6 EACH PEDESTRIAN PUSH-BUTTON		
		DICON						TS# 6410
	<u>COMMONWEALTH E</u>	.DISUN_						VILLA PARK
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 64 AT ARDMORE AVENUE	F.A. SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet File	s 6410_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-082TS	DUPAGE 88 62
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID	





DUAL ENTRY PHASE PEDESTRIAN PHASE

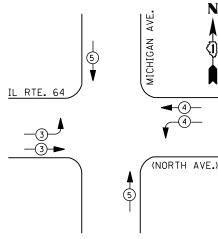
SINGLE ENTRY PHASE OVERLAP

NUMBER REFERS TO

ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED PHASE LETTER <u>PHASE</u>

#### **PHASE DESIGNATION DIAGRAM**



IL RTE. 64	MICHIGAN AVE.	
	(NORTH	4)— 4)— H AVE.)
	5	

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS								
EMERGENCY VEHICLE 3 4 5 PREEMPTOR 3								
MOVEMENT	1		<b>†</b>					

I. D. O. T. TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REOUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	20	1 35	17	0.50	170				
(YELLOW)	20	1 35	25	0.25	125				
( GREEN)	20	1 35	15	0.25	75				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	8	90	25	1.00	200				
CONTROLLER	1	1 00	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM	-	150	-	1.00	1				
FLASHER LED									
TOTAL = 680									

ENERGY COSTS-

BILLED TO: VILLAGE OF VILLA PARK 20 S. ARDMORE AVENUE

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

VILLA PARK, IL 60181-2696

### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIME
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE

INTERCONNECT TO

ADDISON RD.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

**≫.**♥

(NORTH AVE.)

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

-NO. 6 GREEN

MICHIGAN

NO. 6 GREEN

**CABLE PLAN** 

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASED 6 AND 8

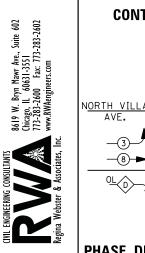
IL RTE. 64

TS# 6470 VILLA PARK

- TRACER CABLE

INTERCONNECT TO ARDMORE AVE.

								V .	ILLA I AINN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 64 AT MICHIGAN AVENUE	F.A. SECTION	ION COUNTY	Y TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	6470_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	2012-08	82TS DUPAGE	F 88 63
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			ACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	1	ILINOIS FED. AID PROJECT	



AVE.

_3____ --(8)-▶ 0L0



SINGLE ENTRY PHASE

OVERLAP

TYPE A CONCRETE FOUNDATION. DUAL ENTRY PHASE REPLACE 15 FT. PAINTED POST. RE-USE EXISTING PEDESTRIAN PHASE

> REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

TYPE A CONCRETE FOUNDATION.

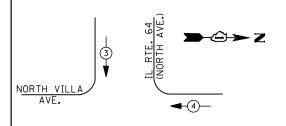
REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

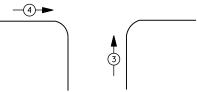
~	
*	NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	

OVERLAP		PERMISSIVE		PROTECTED		DISPLAY
LETTER	}	PHASE PHASE			PHASE	
В	=	4	+	5	-	4
D	=	8	+	1	-	8

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTOR							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	<b>↓</b> ↑	<b>←</b>					

I. D. O. T. TRAFFIC SIGNAL INSTALLATION

	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	17	1 35	1 7	0.50	145				
(YELLOW)	17	1 35	25	0.25	107				
( GREEN)	17	1 35	15	0.25	64				
ARROW	24	1 35	12	0.10	29				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ļ	1.00	ļ				
FLASHER LED									

ENERGY COSTS-

BILLED TO: VILLAGE OF VILLA PARK

20 S. ARDMORE AVENUE VILLA PARK, IL 60181-2696

TOTAL =

445

ENERGY SUPPLY -CONTACT JOE STACHO

630-424-5704 PHONE

COMMONWEALTH EDISON

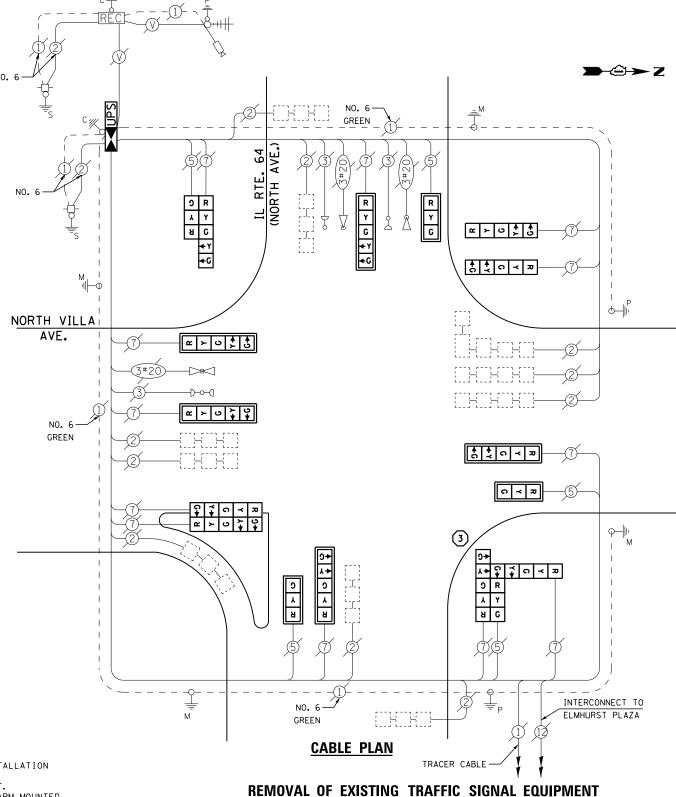
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UN I T</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
5	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 2-5 SECTION BRACKET MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
10	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET. SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL



THE FOLLOWING 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

SHAL	L BE RE	FLECTED IN THE CONTRACT BID PRICE.
3	EACH	SIGNAL HEAD, 1 - FACE, 3 - SECTION
7	EACH	SIGNAL HEAD, 1 - FACE, 5 - SECTION
1	EACH	SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION
1	EACH	SIGNAL HEAD, 2 - FACE, 5 SECTION
1	EACH	SIGNAL HEAD, 3 - FACE, 1 - 3 SECTION, 2-5 SECTION
8	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SIGNAL POST
1	EACH	CONTROLLER AND CABINET (COMPLETE)

TS# 6480

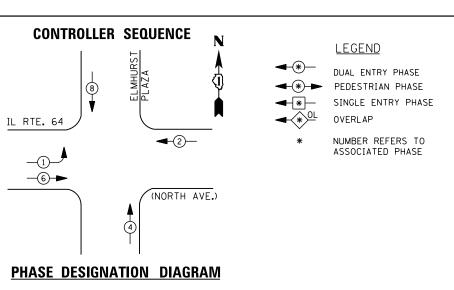
LE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-
\Projects3\12062\DesignCAD\Sheet Files	6480_CAB_DUPAGE.dgn	DRAWN	-	JDH	REVISED	-
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-
	PLOT DATE = 2/5/2013	DATE	_		REVISED	-

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N.T.S.

								VIL	LAF	AKK	ı
			E 64 AT VI			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS		
SCHED					ESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	64	l
	AND ENIE	RGENCY	VEHICLE P	KEEWIPIIUI	I SEQUENCE		•	CONTRACT	NO. 6	owoo	
s.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FE	ED. AID PROJECT			l





I. D. O. T.												
TRAFFIC SIGNAL INSTALLATION												
ELECTRICAL SERVICE REQUIREMENTS												
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL							
		INCAND.	LED		WATTAGE							
SIGNAL (RED)	10	1 35	1 7	0.50	85							
(YELLOW)	10	1 35	25	0.25	63							
( GREEN)	10	1 35	15	0.25	38							
ARROW	4	1 35	12	0.10	5							
PED. SIGNAL		90	25	1.00								
CONTROLLER	1	100	1 00	1.00	100							
ILLUM. SIGN		252	25	0.05								
VIDEO SYSTEM		150	ı	1.00								
FLASHER LED												
				TOTAL =	291							

ENERGY COSTS- BILLED TO: SKC PROPERTY INC.

ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>
PHONE 630-424-5704

630-424-5704 COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
6	EACH	INDUCTIVE LOOP DETECTOR
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL

INTERCONNECT TO

VILLA AVE.

TRACER CABLE -

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

NO. 6 GREEN

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R R

-1- - - - - NO. 6 GREEN

**CABLE PLAN** 

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(NORTH AVE.)

5	EACH	SIGNAL HEAD, 1 - FACE, 3 - SECTION	
1	EACH	SIGNAL HEAD, 1 - FACE, 5 - SECTION	
1	EACH	SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION	
1	EACH	SIGNAL HEAD, 2 - FACE, 2-3 SECTION	
4	EACH	TRAFFIC SIGNAL BACKPLATE	
1	EACH	CONTROLLER AND CABINET (COMPLETE)	

TS# 6505 VILLA PARK

INTERCONNECT TO
IL RTE. 83

-TRACER CABLE

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

	·													VIL	LA PARK	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -				IL ROUTE	64 AT EI	LMHURST F	PLAZA	F.A. RTF	SECTION	COUNTY	TOTAL SHEET	1
N:\Projects3\12062\DesignCAD\Sheet File:	6505_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-082TS	DUPAGE	88 65	1		
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE					T NO. 60W00	1				
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		1

UPS

NO. 6

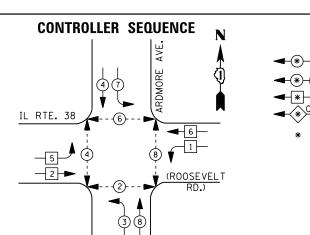
G

**2** ≻ ∪

NO. 6

IL RTE. 64

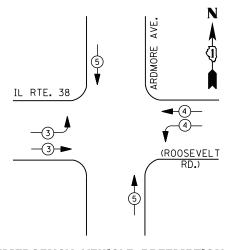




DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### **PHASE DESIGNATION DIAGRAM**



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS											
EMERGENCY VEHICLE PREEMPTOR	3	4	5								
MOVEMENT	1	-	<b> </b>								

	1. 0. 1.													
	TRAFFIC SIGNAL INSTALLATION													
ELECTRICAL SERVICE REQUIREMENTS														
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL									
		INCAND.	LED		WATTAGE									
SIGNAL (RED)	16	1 35	17	0.50	136									
(YELLOW)	16	1 35	25	0.25	100									
( GREEN)	16	1 35	15	0.25	60									
ARROW	8	1 35	12	0.10	10									
PED. SIGNAL	8	90	25	1.00	200									
CONTROLLER	1	100	1 00	1.00	100									
ILLUM. SIGN		252	25	0.05										
VIDEO SYSTEM		150	-	1.00										
FLASHER LED														
				TOTAL =	606									

ENERGY COSTS- BILLED TO: VILLAGE OF VILLA PARK

ENERGY SUPPLY -

20 S. ARDMORE AVENUE

VILLA PARK, IL 60181-2696

CONTACT <u>JOE STACHO</u>
PHONE 630-424-5704

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

### GREEN AVE. ARDMORE (\$\\(\frac{1}{2}\)\(\sigma\) IL RTE. 38 (ROOSEVELT RD.) D-0-(1-GREEN INTERCONNECT TO COURTYARD MALL INTERCONNECT TO ENTRANCE VILLA OAKS DR. 0 ¥ ⊃ **4** D C TRACER CABLE TRACER CABLE NO. 6 GREEN **CABLE PLAN**

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

8 EACH PEDESTRIAN PUSH-BUTTON

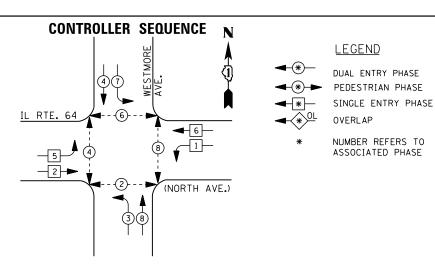
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

8 EACH PEDESTRIAN SIGNAL HEAD

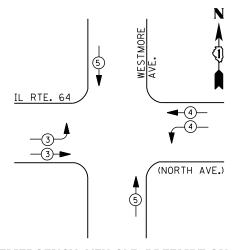
TS# 15310 VILLA PARK

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 38 AT ARDMORE AVENUE	F.A.	SECTION	COUNTY	TOTAL S	SHEET NO.
N:\Projects3\12062\DesignCAD\Sheet Files	15310_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM			2012-082TS	DUPAGE	88	66
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 60	woo
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		





#### **PHASE DESIGNATION DIAGRAM**



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE 3 4 5 PREEMPTOR							
MOVEMENT	1		<b>†</b>				

I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION									
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	20	1 35	17	0.50	170					
(YELLOW)	20	1 35	25	0.25	125					
( GREEN)	20	1 35	15	0.25	75					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	1 00	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	-	150	-	1.00	1					
FLASHER LED										
				TOTAL =	680					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT <u>JOE STACHO</u>
PHONE 630-424-5704

COMMONWEALTH EDISON

### SCHEDULE OF QUANTITIES

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE

INTERCONNECT TO

NO. 6 -GREEN

IL RTE. 64

GREEN

**CABLE PLAN** 

PUSH BUTTON "A" SHALL PLACE A CALL IN PHASED 2 AND 4

WESTWOOD AVE./

LINCOLN AVE.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD

-NO. 6 GREEN

**≯** • C

(NORTH AVE.)

WESTMORE

7 EACH PEDESTRIAN PUSH-BUTTON

TS# 15315 VILLA PARK

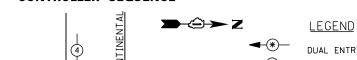
-TRACER CABLE

INTERCONNECT TO

ADDISON RD.

										V I L	LA F	AUV	
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 64 AT WESTMORE AVENUE	F.A.	SECTION	COUNTY	TOTAL	SHEET	ſ
N:\Projects3\12062\DesignCAD\Sheet Files	15315_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	IEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	IXIE.	2012-082TS	DUPAGE	88	67	-
	PLOT SCALE = \$SCALE\$	CHECKED -	кмм	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	T NO. 6	owoo	<u> </u>
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	$\neg$	ILLINOIS FE	ED. AID PROJECT			7





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

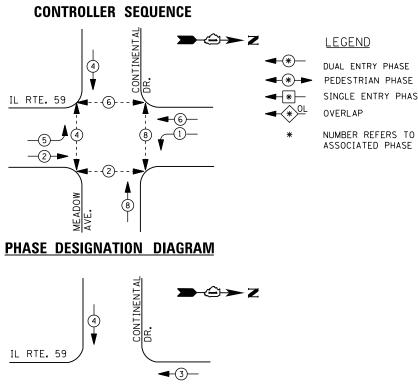
REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

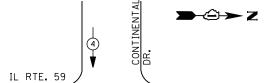
TYPE A CONCRETE FOUNDATION.

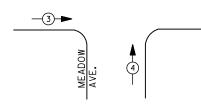
REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 14 FT. PAINTED POST. RE-USE EXISTING

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	<b>←</b>						

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	<b>ELECTRI CAL</b>	SERVI CE	REQUI R	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	1 7	0.50	102				
( YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	4	90	25	1.00	100				
CONTROLLER	1	100	1 00	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

ENERGY COSTS-

BILLED TO: CITY OF WARRENVILLE 3S258 MANNING AVENUE

WARRENVILLE, ILLINOIS 60555 ENERGY SUPPLY -

CONTACT JOE STACHO 630-424-5704 PHONE

COMMONWEALTH EDISON

TOTAL =

432

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

## MEADON -TRACER CABLE INTERCONNECT TO -NO. 6 BATAVIA RD. GREEN UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER **CABLE PLAN** REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION FACH FACH SIGNAL HEAD, 2 - FACE, 2-3 SECTION EACH EACH TRAFFIC SIGNAL BACKPLATE SIGNAL POST EACH

NO. 6-

GREEN

PR

CONTINENTAL

1

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TS# 6395 WARRENVILLE

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW COUNTY IL ROUTE 59 AT MEADOW AVENUE/CONTINENTAL DRIVE SECTION STATE OF ILLINOIS SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE N:\Projects3\12062\DesignCAD\Sheet Files 6395_CAB_DUPAGE.dgn DRAWN JDH REVISED DUPAGE 88 68 2012-082TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60W00 SCALE: N.T.S. SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = 2/5/2013

IL RTE. 59

NO. 6-GREEN

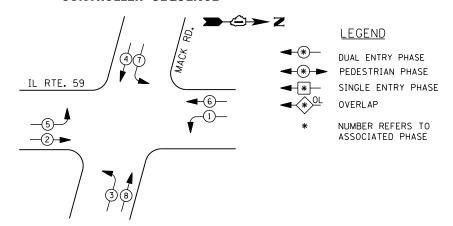
TRACER CABLE

INTERCONNECT TO IL RTE. 56 (BUTTERFIELD RD.)

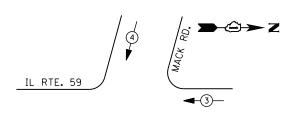
R ≻ C → D

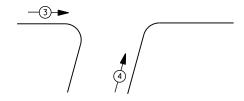


#### **CONTROLLER SEQUENCE**



#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4					
MOVEMENT	<b>†</b> *	<b>+</b>					

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	17	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW	16	1 35	12	0.10	20					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	342					

BILLED TO: CITY OF WARRENVILLE

3S258 MANNING AVENUE

WARRENVILLE, ILLINOIS 60555 ENERGY SUPPLY -CONTACT JOE STACHO PHONE 630-424-5704 COMMONWEALTH EDISON

ENERGY COSTS-

**→**②→ Z -NO. 6 GREEN **UPS** R > 0 > 0 **↑** ↑ ∩ ≺ ¬ IL RTE. 59 **2** ≻ ∪ NO. 6-GREEN **↑** ↑ ∩ ≺ æ ດ ≺ ສ -TRACER CABLE TRACER CABLE INTERCONNECT TO JOLIET ST./ EDGEWOOD WALK INTERCONNECT TO BATAVIA RD. NO. 6-GREEN

#### **CABLE PLAN**

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

4 EACH SIGNAL HEAD, 3 - SECTION 8 EACH SIGNAL HEAD, 5 - SECTION TRAFFIC SIGNAL BACKPLATE 8 EACH

> TS# 12021 WARRENVILLE

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 59 AT MACK ROAD	F.A. RTF	SECTION		TOTAL S SHEETS	
N:\Projects3\12062\DesignCAD\Sheet Files	12021_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	69
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 60	oowc
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT		





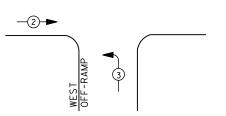
22ND ST. (CERMAK RD.) **4**-6)−

DUAL ENTRY PHASE PEDESTRIAN PHASE

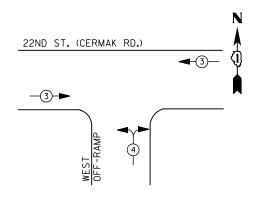
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

**LEGEND** 



#### PHASE DESIGNATION DIAGRAM



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>+</b>	<b>†</b>		

1. D. O. 1.											
	TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	10	1 35	17	0.50	85						
(YELLOW)	10	1 35	25	0.25	63						
( GREEN)	10	1 35	15	0.25	38						
ARROW		1 35	12	0.10							
PED. SIGNAL		90	25	1.00							
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05	-						
VIDEO SYSTEM		150	-	1.00	1						
FLASHER LED											
				TOTAL =	286						

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

FILE NAME =

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>†</b>	<b>†</b>

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u> <u>UNIT</u>

EACH

MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

EACH

MODIFY EXISTING CONTROLLER CABINET UNINTERRUPTABLE POWER SUPPLY, SPECIAL

EXISTING-

DETECTORS

TRACER CABLE

INTERCONNECT TO WINDSOR DR. AND YORK RD.

INTERSECTION AND SAMPLING (SYSTEM)

22ND STREET AT 1-294 WEST RAMP SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE

GREEN

**CABLE PLAN** 

GREEN

D--0-(1-

(R) >> (G)

22ND ST. (CERMAK RD.)

TS# 135 WESTCHESTER

TRACER CABLE

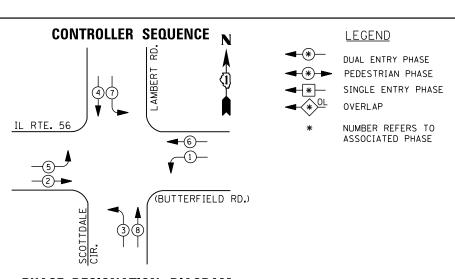
INTERCONNECT TO EAST RAMP

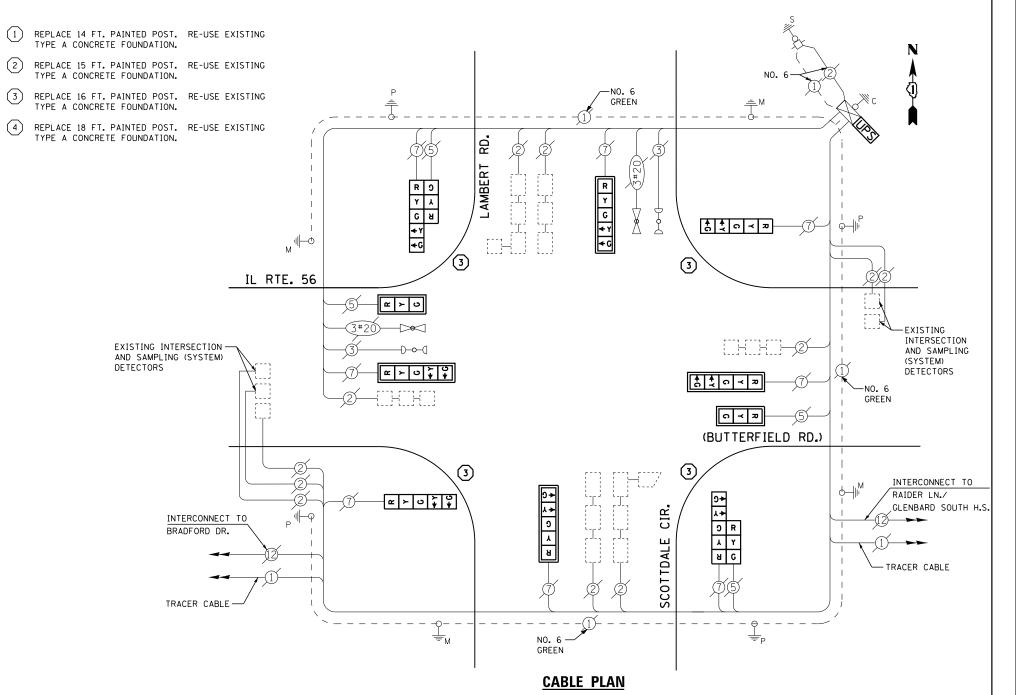
GREEN

COUNTY TOTAL SHEET NO.

DUPAGE 88 70 DESIGNED REVISED USER NAME = \$USER\$ DW SECTION STATE OF ILLINOIS N:\Projects3\12062\DesignCAD\Sheet Files\135_CAB_DUPAGE.dgn DRAWN JDH REVISED 2012-082TS **DEPARTMENT OF TRANSPORTATION** CHECKED KMM REVISED CONTRACT NO. 60W00 SCALE: N.T.S. SHEET NO. OF SHEETS STA. DATE REVISED PLOT DATE = 2/5/2013

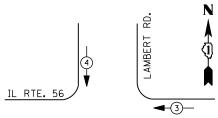


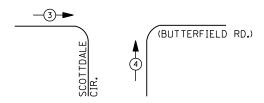




UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b> </b>

TRAFFIC SIGNAL INSTALLATION									
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS					
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	12	1 35	17	0.50	102				
(YELLOW)	12	1 35	25	0.25	75				
( GREEN)	12	1 35	15	0.25	45				
ARROW	16	1 35	12	0.10	20				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

I. D. O. T.

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

342

ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>
PHONE <u>6</u>30-424-570

630-424-5704 COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
6	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

2 EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION 6 EACH SIGNAL HEAD, 1 - FACE, 5 - SECTION 2 EACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION,

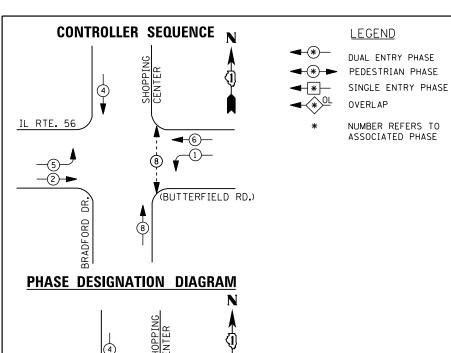
1-5-SECTION 6 EACH TRAFFIC SIGNAL BACKPLATE

4 EACH SIGNAL POST

TS# 6290 WHEATON

										****	11011
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 56 AT LAMBERT RD/SCOTTDALE CIRCLE	F.A.	SECTION	COUNTY CHEET	
N:\Projects3\12062\DesignCAD\Sheet Files	6290_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHED	ULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11.12.	2012-082TS	DUPAGE 88	8 71
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60WOO		
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	





# **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**◄**-3)—

(BUTTERFIELD RD.)

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>←</b>	<b>↓</b> †

IL RTE. 56

**−**(3)**→** 

I. D. O. T.											
	TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS											
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL						
		INCAND.	LED		WATTAGE						
SIGNAL (RED)	14	1 35	1 7	0.50	119						
(YELLOW)	14	1 35	25	0.25	88						
( GREEN)	14	1 35	15	0.25	53						
ARROW	8	1 35	12	0.10	10						
PED. SIGNAL	2	90	25	1.00	50						
CONTROLLER	1	100	1 00	1.00	100						
ILLUM. SIGN		252	25	0.05							
VIDEO SYSTEM		150	-	1.00							
FLASHER LED											
	TOTAL = 420										

ENERGY COSTS-BILLED TO: CITY OF WHEATON 303 W. WESLEY ST., P.O. BOX 727

WHEATON, IL 60187

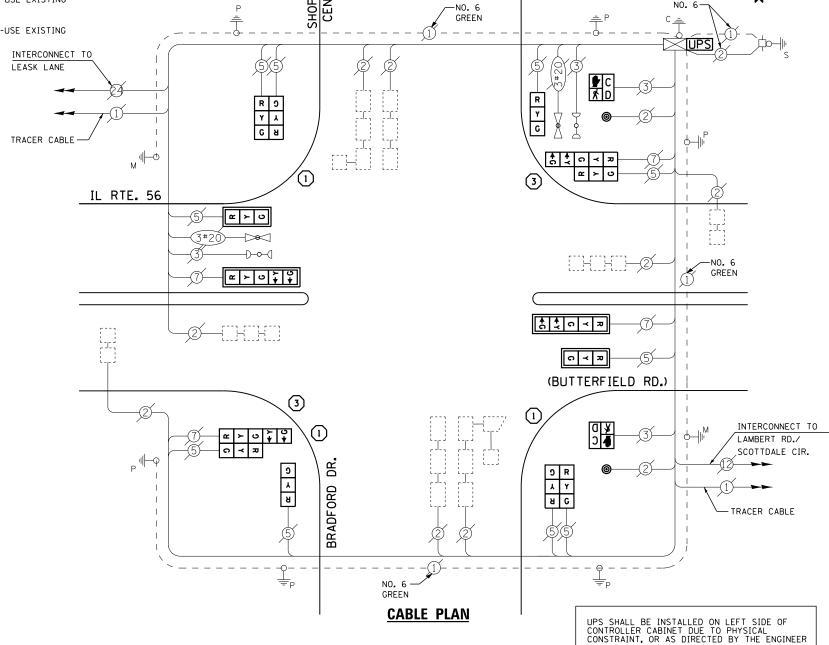
ENERGY SUPPLY -CONTACT JOE STACHO PHONE

630-424-5704 COMMONWEALTH EDISON REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

REPLACE 18 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

EACH SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION FACH SIGNAL HEAD, 2 - FACE, 1-3 SECTION, EACH

1-5-SECTION EACH SIGNAL HEAD, 2 - FACE, 3 - SECTION

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON EACH

TRAFFIC SIGNAL BACKPLATE

5 EACH SIGNAL POST

TS# 15175 WHEATON

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -
N:\Projects3\12062\DesignCAD\Sheet Files	15175_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -
	PLOT DATE = 2/5/2013	DATE -		REVISED -

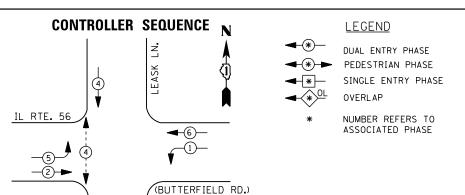
420

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE: N.T.S.

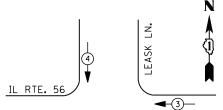
								¥¥ 🗆	ILAIC	ן אינ
	IL ROUTE 56 AT BRADFORD DRIVE						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM							2012-082TS	DUPAGE	88	72
	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE							CONTRACT	NO. 60	owoo
s.	SHEET N	10. OF	SHEETS	STA.	TO STA.		ILL INOIS FED. AT	D PROJECT		

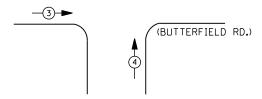




## PHASE DESIGNATION DIAGRAM

38





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>1</b>

		I. D. O	. T.						
	TRAFFIC S	I GNAL I	NSTALLA	TION					
ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	14	1 35	17	0.50	119				
( YELLOW)	14	1 35	25	0.25	88				
( GREEN)	14	1 35	15	0.25	53				
ARROW	12	1 35	12	0.10	15				
PED. SIGNAL		90	25	1.00					
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									
				TOTAL =	375				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

## BICYCLE CROSSING --NO. 6 GREEN PUSH-BUTTON INTERCONNECT TO INTERCONNECT TO EAST LOOP RD. BRADFORD DR. LEASK R 9 Y ↓ G ₩ +Y +G R Y G ← Y ← G G ↑ ↑ C ≺ R TRACER CABLE -TRACER CABLE IL RTE. 56 <u>∝ ≻ ∪</u> (BUTTERFIELD RD.) **↑** ↑ ∩ ≺ 刀 GREEN ດ **≺** 🇷 _ x > ∪ <del>}</del> C X B ы G NO. 6 -GREEN **CABLE PLAN**

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
5	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

TS# 15178 WHEATON

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

										*****	LATON
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 56 AT LEASK LANE	F.A.	SECTION	COUNTY S	TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	15178_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDU	ULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11112	2012-082TS	DUPAGE	88 73
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT N	NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT	



DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO

ASSOCIATED PHASE

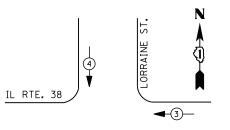
#### PHASE DESIGNATION DIAGRAM

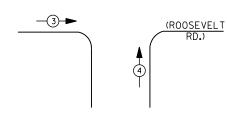
**CONTROLLER SEQUENCE** 

IL RTE. 38

<del>(5)</del>

**2** 





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>↓</b> ↑

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
ELECTRICAL SERVICE REQUIREMENTS										
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	17	0.50	102					
( YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW	16	1 35	12	0.10	20					
PED. SIGNAL	8	90	25	1.00	200					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	542					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704

#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
3	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
5	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO

BLANCHARD RD.

TRACER CABLE

## REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

UPS 🔀

(ROOSEVELT RD.)

**≯** • C

INTERCONNECT TO

-TRACER CABLE

LAMBERT RD.

(GLEN ELLYN)

GREEN

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD

5 EACH PEDESTRIAN PUSH-BUTTON

GREEN

**CABLE PLAN** 

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 "D" SHALL PLACE A CALL IN PHASES 2 AND 8

S

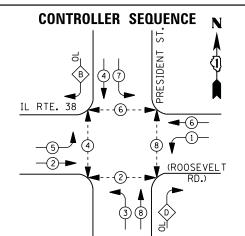
LORRAINE

TS# 15230

	COMMONWEALTH EDIS	<u>on</u>												W	HEATO	ıN
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			I	IL ROUTE	38 AT LO	ORRAINE S	TREET	F.A.	SECTION	COUNTY	TOTAL	SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	15230_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE					DESIGNATION DIAGRAM		2012-082TS	DUPAGE	88	74
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EM	ERGENCY	VEHICLE	PREEMPTI	ON SEQUENCE			CONTRAC	T NO. 60	oowc
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO.	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	ID PROJECT		

IL RTE. 38



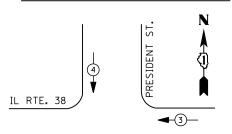


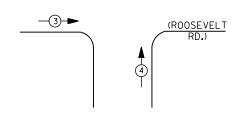
DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN OVERLAP PHASE DESIGNATION OVERLAP PERMISSIVE PROTECTED	DICUT TUDN	OVEDLAD DUA	CE DECICNATION
OVERLAP PERMISSIVE PROTECTED	RIGHT TURN	UVERLAP PHAS	SE DESIGNATION
OVEREAL TERMISSIVE TROTECTED	OVERLAP	PERMISSIVE	PROTECTED
LETTER PHASE PHASE	LETTER	PHASE	<u>PHASE</u>

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	

		I. D. O			
	TRAFFIC S	I GNAL I	NSTALLA	TION	
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	14	1 35	17	0.50	119
(YELLOW)	14	1 35	25	0.25	88
( GREEN)	14	1 35	15	0.25	53
ARROW	24	1 35	12	0.10	29
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					
				TOTAL =	589

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

630-424-5704 PHONE COMMONWEALTH EDISON

<u>QUANTITY</u> <u>UNIT</u> 589

**SCHEDULE OF QUANTITIES** 

UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION FOOT FΔCH DRILL EXISTING HANDHOLE FACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER MODIFY EXISTING CONTROLLER CABINET EACH FACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT EACH EACH UNINTERRUPTABLE POWER SUPPLY, GROUND MOUNTED PEDESTRIAN PUSH-BUTTON, NON-LATCHING EACH

INTERCONNECT TO BLANCHARD RD. PRESIDENT -TRACER CABLE IL RTE. 38 (ROOSEVELT RD.) -NO. 6 D-0-(1 INTERCONNECT TO → <del>•</del>
0 C
0 ¥
2 **4** NAPERVILLE RD. 2" UNDERGROUND CONDUIT, GALVANIZED STEEL TRACER CABLE GREEN **CABLE PLAN** 

NO. 6-

GREEN

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

UPS SHALL BE INSTALLED ON A SEPARATE FOUNDATION DUE TO PHYSICAL CONSTRAINTS, OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "UNINTERRUPTIBLE POWER SUPPLY, GROUND MOUNTED"

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD

EACH PEDESTRIAN PUSH-BUTTON

TS# 15235

									WHEATON
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT PRESIDENT STREET	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	15235_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 75
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FEE	D. AID PROJECT





DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

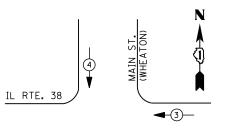
#### PHASE DESIGNATION DIAGRAM

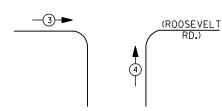
**CONTROLLER SEQUENCE** 

IL RTE. 38

<del>_</del>5

**2** 





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEI	HICLE PRE	EMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	<b>—</b>	<b>↓</b> †	

1. D. O. I.							
	TRAFFIC SIGNAL INSTALLATION						
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	14	1 35	17	0.50	119		
(YELLOW)	14	1 35	25	0.25	88		
( GREEN)	14	1 35	15	0.25	53		
ARROW	16	1 35	12	0.10	20		
PED. SIGNAL	8	90	25	1.00	200		
CONTROLLER	1	100	100	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
I							

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE

#### TOTAL = 580

201 WEST CENTER COURT

630-424-5704

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>OUANT I TY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

INTERCONNECT TO WARRENVILLE RD./ WEST ST.

TRACER CABLE

# REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT THE FOLLOWING 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.

D-O-(1

**≯** •

(ROOSEVELT RD.)

EACH PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON

NO. 6 -GREEN

₩NO. 6 GREEN

PUSH BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8

**CABLE PLAN** 

MAIN ST. (WHEATON)

IL RTE. 38

TS# 15245 WHEATON

INTERCONNECT TO

TRACER CABLE

-EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

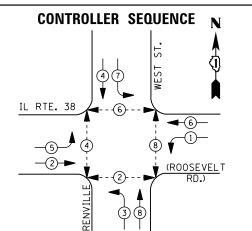
GREEN

NAPERVILLE RD.

									WHEATON
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT MAIN STREET (WHEATON)	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet F	les 15245_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	1	2012-082TS	DUPAGE 88 77
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	$\overline{}$	ILLINOIS FED	. AID PROJECT

−NO.6

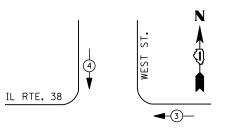


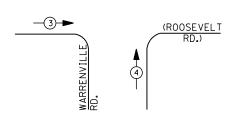


DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

#### **PHASE DESIGNATION DIAGRAM**





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEI	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	

I. D. O. T.						
TRAFFIC SIGNAL INSTALLATION						
	<b>ELECTRI CAL</b>	SERVI CE	REQUIR	EMENTS		
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	14	1 35	17	0.50	119	
(YELLOW)	14	1 35	25	0.25	88	
( GREEN)	14	1 35	15	0.25	53	
ARROW	16	1 35	12	0.10	20	
PED. SIGNAL	8	90	25	1.00	200	
CONTROLLER	1	100	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM		150	-	1.00		
FLASHER LED						
				TOTAL =	580	

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT <u>JOE STACHO</u>

PHONE 630-424-5704
COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
6	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

EXISTING INTERSECTION -AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO

TRACER CABLE

CARLTON AVE.

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

(*)(*)(*)(*)(*)

8

-NO. 6 GREEN

**CABLE PLAN** 

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

03

(ROOSEVELT RD.)

8 EACH PEDESTRIAN SIGNAL HEAD 5 EACH PEDESTRIAN PUSH-BUTTON

CONTRACTOR SHALL INSTALL AN ADDITIONAL PEDESTRIAN PUSH-BUTTON. THE COST OF THE CABLE AND ANY ADDITIONAL WORK NEEDED TO INSTALL THIS NEW PUSH-BUTTON SHALL BE INCLUDED IN THE CORRESPONDING PEDESTRIAN PUSH-BUTTON, NON-LATCHING PAY ITEM.

GREEN

 $\sim$ 

TS# 15250 WHEATON

INTERCONNECT TO

MAIN ST. (WHEATON)

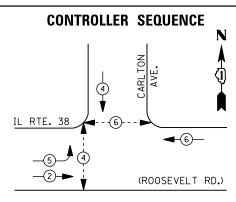
-TRACER CABLE

-NO.6 GREEN

									WHEATON
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT WEST STREET/WARRENVILLE ROAD	F.A. RTF	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	15250_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM		2012-082TS	DUPAGE 88 78
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60WOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED	. AID PROJECT

IL RTE. 38





#### PHASE DESIGNATION DIAGRAM

**LEGEND** 

DUAL ENTRY PHASE

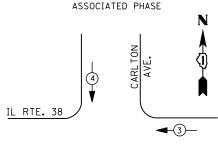
** PEDESTRIAN PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

**★**OL OVERLAP

* NUMBER REFERS TO



—(ROOSEVELT RD.)

**EMERGENCY VEHICLE PREEMPTION SEQUENCE** 

# EMERGENCY VEHICLE PREEMPTORS EMERGENCY VEHICLE 3 4

MOVEMENT

I. D. O. T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS WATTAGE ____ % OPERATIONS TOTAL NO. LAMPS WATTAGE INCAND. 85 SIGNAL (RED) 1 35 17 0.50 25 (YELLOW) 0.25 63 10 135 (GREEN) 1 35 15 0.25 38 10 ARROW 1 35 0.10 5 PED. SIGNAL 100 CONTROLLER 100 100 1.00 100 ILLUM. SIGN 0.05 ---VIDEO SYSTEM 1.00 150 FLASHER LED TOTAL = 391

ENERGY COSTS
BILLED TO: <u>IDOT DISTRICT 1</u>

201 WEST CENTER COURT

SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY - CONTACT JOE STACHO
PHONE 630-424-5704

COMMONWEALTH EDISON

# GREEN -TRACER CABLE CARL TON \INTERCONNECT TO WARRENVILLE RD./WEST ST. IL RTE. 38 NO. 6-GREEN (a) < (z) (ROOSEVELT RD.) −N0.6 GREEN

#### **CABLE PLAN**

NOTE: PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

#### SCHEDULE OF QUANTITIES

QUANTITY UNIT ITEM

1 EACH MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2 EACH PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1 EACH PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1 EACH MODIFY EXISTING CONTROLLER CABINET
1 EACH REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1 EACH UNINTERRUPTABLE POWER SUPPLY, SPECIAL
3 EACH PEDESTRIAN PUSH-BUTTON, NON-LATCHING

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

4 EACH PEDESTRIAN SIGNAL HEAD 3 EACH PEDESTRIAN PUSH-BUTTON

> TS# 15255 WHEATON

> > SECTION

| COUNTY | SHEET SOURCE | NO. | SHEET SOURCE | NO. | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COWOO | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | COUNTRACT | NO. | C

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	
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	PLOT DATE = 2/5/2013	DATE	_		REVISED	-	

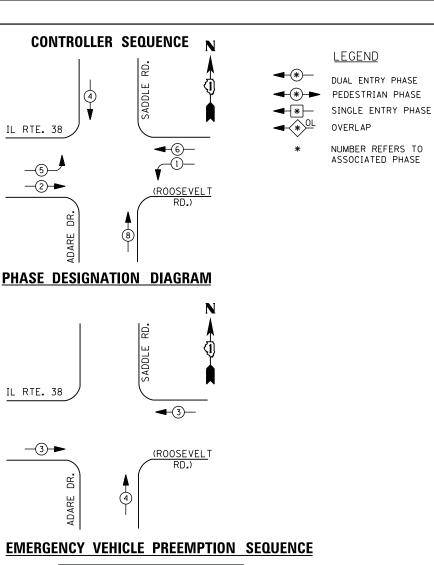
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

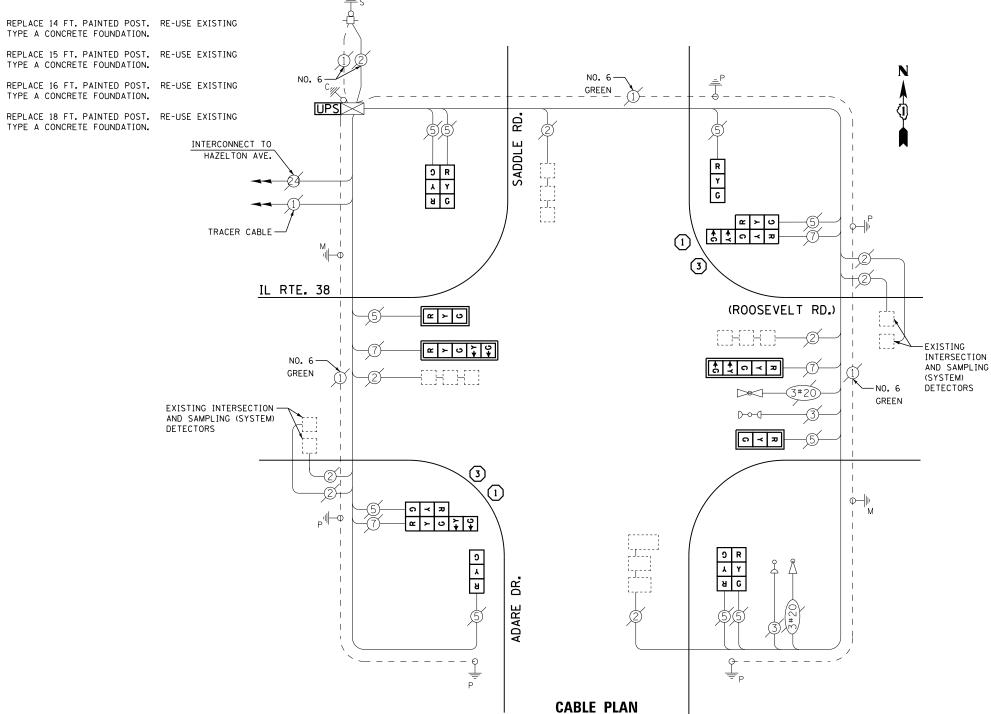
2012-082TS DUPAGE 88

CONTRACT NO. 60





#### REPLACE 14 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 15 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION. REPLACE 16 FT. PAINTED POST. RE-USE EXISTING TYPE A CONCRETE FOUNDATION.



I. D. O. T.

EMERGENCY VEHICLE PREEMPTORS			
EMERGENCY VEHICLE PREEMPTOR	3	4	
MOVEMENT	<b>←</b>	<b>†</b>	

TRAFFIC SIGNAL INSTALLATION						
ELECTRICAL SERVICE REQUIREMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL	
		INCAND.	LED		WATTAGE	
SIGNAL (RED)	14	1 35	1 7	0.50	119	
(YELLOW)	14	1 35	25	0.25	88	
( GREEN)	14	1 35	15	0.25	53	
ARROW	8	1 35	12	0.10	10	
PED. SIGNAL		90	25	1.00		
CONTROLLER	1	100	1 00	1.00	100	
ILLUM. SIGN		252	25	0.05		
VIDEO SYSTEM		150	ı	1.00	i	
FLASHER LED						
				TOTAL =	370	

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -CONTACT JOE STACHO

PHONE 630-424-5704

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANT I TY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.
2	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

SIGNAL HEAD, 1 - FACE, 3 - SECTION SIGNAL HEAD, 1 - FACE, 5 - SECTION SIGNAL HEAD, 2 - FACE, 1-3 SECTION, 1-5-SECTION SIGNAL HEAD, 2 - FACE, 3 - SECTION

EACH

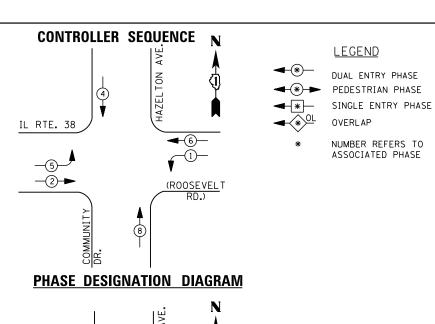
TRAFFIC SIGNAL BACKPLATE

EACH SIGNAL POST

> TS# 15260 WHEATON

- 1													
ſ	FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 38 AT SADDLE ROAD/ADARE DRIVE	F.A.	SECTION	COUNTY	TOTAL	SHEE
١	N:\Projects3\12062\DesignCAD\Sheet Files	15260_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11.12.	2012-082TS	DUPAGE	88	80
١		PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE				CONTRACT	NO. 6	owoc
ı		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		





IL RTE. 38

ENERGY SUPPLY -

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

**3**—

(ROOSEVELT

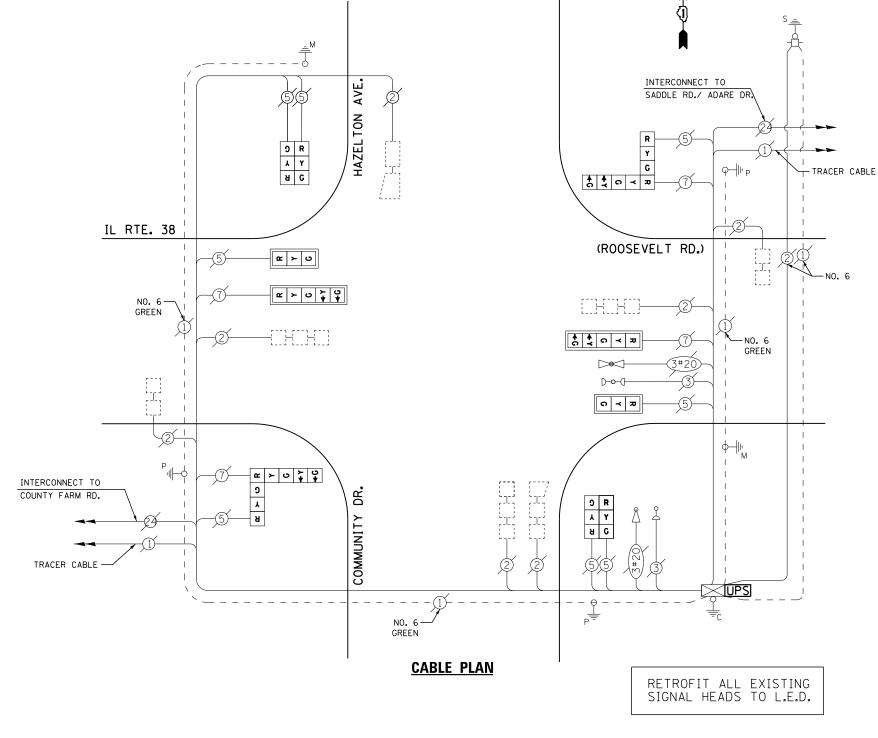
EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	1

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	12	1 35	1 7	0.50	102					
(YELLOW)	12	1 35	25	0.25	75					
( GREEN)	12	1 35	15	0.25	45					
ARROW	8	1 35	12	0.10	10					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	1 00	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	ı	1.00						
FLASHER LED										
				TOTAL =	332					
ENERGY COSTS	OY									

CONTACT JOE STACHO

630-424-5704

PHONE



#### **SCHEDULE OF QUANTITIES**

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
2	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
2	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

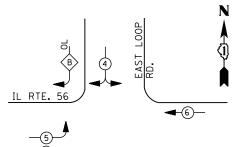
THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

4 EACH TRAFFIC SIGNAL BACKPLATE

TS# 15261

		COMMONWEALTH EDISON	_								HEAT	
FILE 1	NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 38 AT COMMUNITY DRIVE/HAZELTON AVENUE/MARIANJOY	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
N:\Pro	ojects3\12062\DesignCAD\Sheet Files	15261_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-082TS	DUPAGE	88	81
		PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 6	60W00
		PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT		





DUAL ENTRY PHASE PEDESTRIAN PHASE

SINGLE ENTRY PHASE OVERLAP

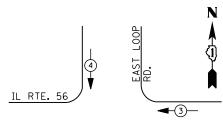
NUMBER REFERS TO

ASSOCIATED PHASE

(BUTTERFIELD RD.)

#### PHASE DESIGNATION DIAGRAM

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVER	LAP	PERMISS	SIVE	PROTECTED
LETTE	R	PHASE		PHASE
В	=	4	+	5



**-**(3)-►

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	<b>\</b>

I. D. O. T.										
TRAFFIC SIGNAL INSTALLATION										
	ELECTRI CAL	SERVI CE	REQUIR	EMENTS						
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	10	1 35	1 7	0.50	85					
( YELLOW)	10	1 35	25	0.25	63					
( GREEN)	10	1 35	15	0.25	38					
ARROW	4	1 35	12	0.10	5					
PED. SIGNAL		90	25	1.00						
CONTROLLER	1	100	100	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM	1	150	-	1.00	1					
FLASHER LED										
				TOTAL =	291					

ENERGY COSTS-

FILE NAME =

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

DESIGNED

CHECKED

DRAWN

DATE

DW

JDH

KMM

ENERGY SUPPLY -

N:\Projects3\12062\DesignCAD\Sheet File

CONTACT JOE STACHO 630-424-5704 PHONE

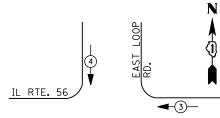
USER NAME = \$USER\$

PLOT DATE = 2/5/2013

20660_CAB_DUPAGE.dgn

COMMONWEALTH EDISON

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION	١
OVER	LAP	PERMISS	SIVE	PROTECTED	
LETTE	R	PHASE		PHASE	
В	=	4	+	5	



(BUTTERFIELD RD.)

LIVILITATION	VEIIIVEE	 11011	OFGOFIAGE

EMERGENCY VE	HICLE PRE	EMPTORS
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	<b>—</b>	Ų.

CHEDUL	E OF	QUAN	ITITIES

RETROFIT ALL EXISTING SIGNAL HEADS TO L.E.D.

						WHE	ATON	
	IL ROUTE 56 AT EAS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	
	OF QUANTITIES, CABLE PLAN IND EMERGENCY VEHICLE PI				2012-082TS	DUPAGE	88	82
		TEEINIFIJON SEQUENC	<u> </u>			CONTRACT	NO. 6	owoo
SCALE: N.T.S. SHEE	ET NO. OF SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

-NO. 6 GREEN

**CABLE PLAN** 

↑ ↑ C ≺ R

↑ ↑ C ≺ ¤

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(BUTTERFIELD RD.)

8 ₹≯

IL RTE. 56

NO. 6 -GREEN

REVISED

REVISED

REVISED

REVISED

<u>QUANTITY</u>	<u>UNIT</u>	<u>I TEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	UNINTERRUPTABLE POWER SUPPLY. SPECIAL
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT TO NAPERVILLE RD.

TRACER CABLE

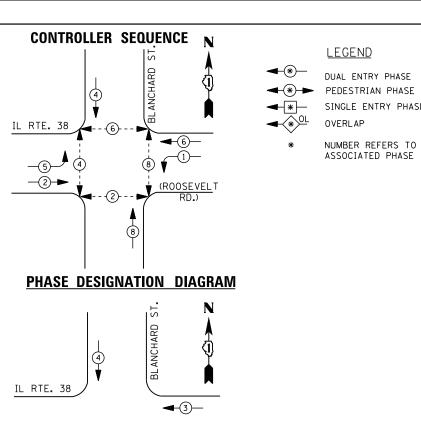
TS# 20660

INTERCONNECT TO

LEASK LN.

TRACER CABLE





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

(ROOSEVELT

EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4		
MOVEMENT	<b>—</b>			

**-**(3)**-**►

		I. D. O					
TRAFFIC SIGNAL INSTALLATION							
	ELECTRICAL	SERVI CE	REQUIR	EMENTS			
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	10	1 35	17	0.50	85		
(YELLOW)	10	1 35	25	0.25	63		
( GREEN)	10	1 35	15	0.25	38		
ARROW	8	1 35	12	0.10	10		
PED. SIGNAL	8	90	25	1.00	200		
CONTROLLER	1	1 00	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							
				TOTAL =	496		

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT JOE STACHO PHONE 630-424-5704

COMMONWEALTH EDISON

SINGLE ENTRY PHASE

# INTERCONNECT TO PRESIDENT ST.

IL RTE. 38

NO. 6-GREEN

- (C) (C)

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D--0-(I

**CABLE PLAN** PUSH BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

-NO. 6 GREEN

GREEN

ST

**BLANCHARD** 

(ROOSEVELT RD.)

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

#### **SCHEDULE OF QUANTITIES**

QUANTITY	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
6	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF
1	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMEF
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
7	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

TRACER CABLE -

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

8 EACH PEDESTRIAN SIGNAL HEAD 7 EACH PEDESTRIAN PUSH-BUTTON

TS# 21250 WHEATON

INTERCONNECT TO

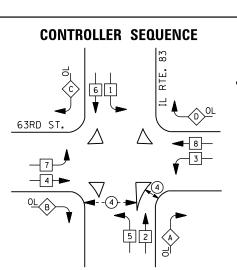
- TRACER CABLE

- EXISTING
INTERSECTION
AND SAMPLING
(SYSTEM)
DETECTORS

LORRAINE ST.

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -	CTATE OF HUMBIC		IL ROUTE 38 AT BLANCHARD STREET		F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
N:\Projects3\12062\DesignCAD\Sheet Fi	es 21250_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCH	EDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGI			2012-082TS	DUPAGE	88	83
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SE	EUVENCE			CONTRACT	I NO. F	OWOO
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S.	SHEET NO. OF SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		





#### <u>LEGEND</u>

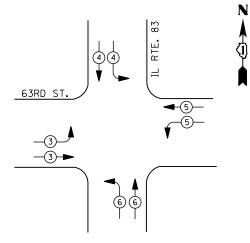
DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

GHT	TURN	OVERLAP	PHASE	DESIGNATION
WED	I AD	DEDMIC	CIVE	DDOTECTED

OVERL LETTER		PERMISSIVE PHASE	PROTECTED PHASE	
Α	=	2	+	3
В	=	4	+	5
С	=	6	+	7
D	=	8	+	1

#### **PHASE DESIGNATION DIAGRAM**



#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS					
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6	
MOVEMENT	1	<b> </b>		<b>-</b>	

	Ι.	D.	0.	Т.	_
TRAFFIC	SIGN	NAL	I١	NSTALLATION	
ELECTRI CAL	. SEF	₹VI	CE	REQUIREMENTS	

	ELECTRICAL	SERVICE	REQUIR	EMENTS	
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL
		INCAND.	LED		WATTAGE
SIGNAL (RED)	22	1 35	1 7	0.50	187
(YELLOW)	22	1 35	25	0.25	138
( GREEN)	22	1 35	15	0.25	83
ARROW	16	1 35	12	0.10	20
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	1 00	1.00	100
ILLUM. SIGN		252	25	0.05	
VIDEO SYSTEM		150	-	1.00	
FLASHER LED					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

628

ENERGY SUPPLY -

CONTACT <u>ILYAS MOHIUDDIN</u>
PHONE <u>708-235-2692</u>

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
3	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

NO. 6

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

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83

RTE.

**€**3

NO. 6-GREEN

**CABLE PLAN** 

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(P) (P) (P)

INTERCONNECT TO 67TH ST.

9 √ √ √ √ √ √ √ √ √

THE FOLLOWING 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.

3 EACH PEDESTRIAN PUSH-BUTTON

TS# 565 WILLOWBROOK

- NO. 6 GREEN

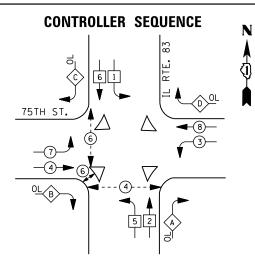
									WILLO	MDNOOK
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 83 AT 63RD STREET	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	565_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	100	2012-082TS	DUPAGE	88 84
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION	AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT	NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -	1	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILL INOIS FEE	D. AID PROJECT	

^M⊪φ

GREEN

63RD ST.





DUAL ENTRY PHASE

PEDESTRIAN PHASE

SINGLE ENTRY PHASE

OVERLAP

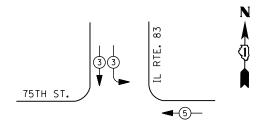
NUMBER REFERS TO ASSOCIATED PHASE

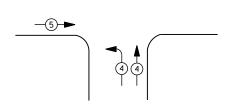
RIGHT	TURN	OVERLAP	PHASE	DESIGNATIO	ıΝ	
OVERI	LAP	PERMISS	IVE	PROTECTED		
LETTE	R	PHASE		PHASE		
Α	=	2	+	3		
В	=	4	+	5		
С	=	6	+	7		

8

D

#### PHASE DESIGNATION DIAGRAM





#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	<b> </b>	<b>*</b>	<del></del>				

I. D. O. T.										
	TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS									
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL					
		INCAND.	LED		WATTAGE					
SIGNAL (RED)	18	1 35	17	0.50	153					
(YELLOW)	18	1 35	25	0.25	113					
( GREEN)	18	1 35	15	0.25	68					
ARROW	24	1 35	12	0.10	29					
PED. SIGNAL	6	90	25	1.00	150					
CONTROLLER	1	100	1 00	1.00	100					
ILLUM. SIGN		252	25	0.05						
VIDEO SYSTEM		150	-	1.00						
FLASHER LED										
				TOTAL =	613					

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT <u>ILYAS MOHIUDDIN</u>
PHONE <u>708-235-2692</u>

COMMONWEALTH EDISON

#### **SCHEDULE OF QUANTITIES**

		Pus
QUANTITY	<u>UNIT</u>	ITEM
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
1	EACH	MODIFY EXISTING CONTROLLER CABINET
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
4	EACH	PEDESTRIAN PUSH-BUTTON, NON-LATCHING

## PUSH BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6

#### $\underline{\textbf{REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT}}$

THE FOLLOWING 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.

83

TRACER CABLE

6 EACH PEDESTRIAN SIGNAL HEAD 4 EACH PEDESTRIAN PUSH-BUTTON

NO. 6

**CABLE PLAN** 

GREEN

NOTE:

TS# 570 WILLOWBROOK

INTERCONNECT TO
IL RTE 83./MIDWAY DR.

-NO. 6

GREEN

	<u>'</u>								WILL	OMRK	.UUr
FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -		IL ROUTE 83 AT 75TH STREET	F.A.	SECTION	COUNTY	TOTAL SHEETS	
N:\Projects3\12062\DesignCAD\Sheet Files	s 570_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE		2012-082TS	DUPAGE	88	85
	PLOT SCALE = \$SCALE\$	CHECKED -	KMM	REVISED -	DEPARTMENT OF TRANSPORTATION			2012 002.0	CONTRACT	NO. 6	OWOC
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.		ILLINOIS FED. AI			

-QVIPS

INTERCONNECT TO

IL RTE. 83/ELM ST.

NO. 12 —

TRACER CABLE

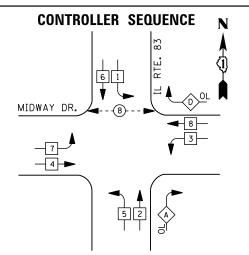
75TH ST.

NO. 6-

GREEN

NO. 12 —



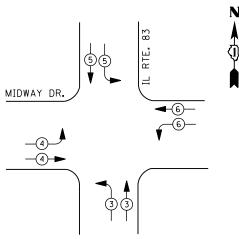


DUAL ENTRY PHASE PEDESTRIAN PHASE SINGLE ENTRY PHASE

> NUMBER REFERS TO ASSOCIATED PHASE

RIGHT	TURN	OVERLAP	PHASE	DESIGNATION
OVERL	.AP	PERMISS	IVE	PROTECTED
LETTE	R	PHASE		PHASE PHASE
Α	=	2	+	3
D	_	0		1

#### PHASE DESIGNATION DIAGRAM



THE B3	
-4 -4 -4 -4 3 3 3	

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6		
MOVEMENT	<b>1</b>	1	<b>_</b>	1		

I. D. O. T.									
TRAFFIC SIGNAL INSTALLATION									
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	20	1 35	1 7	0.50	170				
(YELLOW)	20	1 35	25	0.25	125				
( GREEN)	20	1 35	15	0.25	75				
ARROW	8	1 35	12	0.10	10				
PED. SIGNAL	2	90	25	1.00	50				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	-	1.00					
FLASHER LED									

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT SCHAUMBURG, IL 60196-1096

TOTAL =

530

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN 708-235-2692 PHONE

COMMONWEALTH EDISON

CONTRACTOR SHALL RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT TO A NEW CONTROLLER CABINET. THE COST OF THIS WORK SHALL BE INCLUDED IN THE FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL PAY ITEM.

# - NO. 6 GREEN RTE. MIDWAY DR. GREEN 4 TWISTED PAIRS NO. 12 NO. 6 GREEN EXISTING INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO

75TH STREET

TRACER CABLE

EXISTING INTERSECTION AND SAMPLING (SYSTEM)

DETECTORS

#### SCHEDULE OF QUANTITIES

<u>QUANTITY</u>	<u>UNIT</u>	<u>ITEM</u>
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	TRANSCEIVER - FIBER OPTIC
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
14	EACH	INDUCTIVE LOOP DETECTOR
2	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL

#### **CABLE PLAN**

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

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

PEDESTRIAN SIGNAL HEAD EACH PEDESTRIAN PUSH-BUTTON EACH

CONTROLLER AND CABINET (COMPLETE)

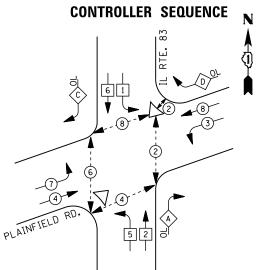
TS# 615 WILLOWBROOK

FILE NAME = DESIGNED REVISED USER NAME = \$USER\$ DW STATE OF ILLINOIS N:\Projects3\12062\DesignCAD\Sheet Files 615_CAB_DUPAGE.dgn DRAWN JDH REVISED CHECKED KMM REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 2/5/2013 DATE REVISED

IL ROUTE 83 AT MIDWAY DRIVE SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE SCALE: N.T.S. SHEET NO. OF SHEETS STA.

	WILL	יוםייי	OOK
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
012-082TS	DUPAGE	88	86
	CONTRACT	NO. 6	0000
ILL INOIS FED AT	D PROJECT		





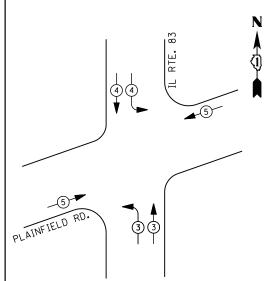
DUAL ENTRY PHASE

PEDESTRIAN PHASE SINGLE ENTRY PHASE

NUMBER REFERS TO ASSOCIATED PHASE

RIGHT TURN	OVERI AP	PHASE	DESIGNATION	V	
OVERLAP	PERMISS		PROTECTED	-	
LETTER	PHASE		PHASE		
Δ =	2	+	3		
C =	6	+	7		

#### PHASE DESIGNATION DIAGRAM



EMERGENO	EMERGENCY VEHICLE PREEMPTORS							
EMERGENCY VEHICLE PREEMPTOR	3	4	5					
MOVEMENT	<del></del>	<u></u>	<b>—</b>					

#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

I. D. O. T. TRAFFIC SIGNAL INSTALLATION							
ELECTRICAL SERVICE REQUIREMENTS							
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL		
		INCAND.	LED		WATTAGE		
SIGNAL (RED)	18	1 35	1 7	0.50	153		
(YELLOW)	18	1 35	25	0.25	113		
( GREEN)	18	1 35	15	0.25	68		
ARROW	20	1 35	12	0.10	24		
PED. SIGNAL	10	90	25	1.00	250		
CONTROLLER	1	1 00	1 00	1.00	100		
ILLUM. SIGN		252	25	0.05			
VIDEO SYSTEM		150	-	1.00			
FLASHER LED							

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT

ENERGY SUPPLY -

PHONE 708-235-2692 COMMONWEALTH EDISON

SCHAUMBURG, IL 60196-1096 CONTACT ILYAS MOHIUDDIN

#### TOTAL = 708

QUANTITY	<u>UN11</u>	<u>I I E M</u>	
1	EACH	MAINTENANCE OF EXISTING	TRAFFIC SIGNAL INSTALLATION
1	EACH	PEDESTRIAN SIGNAL HEAD,	LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMES
3	EACH	PEDESTRIAN SIGNAL HEAD,	LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMES
1	EACH	PEDESTRIAN SIGNAL HEAD,	LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMES
1	EACH	REMOVE EXISTING TRAFFIC	SIGNAL EQUIPMENT
5	EACH	PEDESTRIAN PUSH-BUTTON,	NON-LATCHING

#### **SCHEDULE OF QUANTITIES**

RTE. \$\(\dagger)\(\dagger) GREEN GREEN EXISTING INTERSECTION -AND SAMPLING (SYSTEM) DETECTORS 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 INTERCONNECT TO 75TH STREET TRACER CABLE **CABLE PLAN** 

-EXISTING INTERSECTION

DETECTORS

AND SAMPLING (SYSTEM)

GREEN

#### REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING 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.

10 EACH PEDESTRIAN SIGNAL HEAD

5 EACH PEDESTRIAN PUSH-BUTTON

SCALE: N.T.S.

TS# 635 WILLOWBROOK

FILE NAME =	USER NAME = \$USER\$	DESIGNED	-	DW	REVISED	-	Ī
N:\Projects3\12062\DesignCAD\Sheet Files	635_CAB_DUPAGE.dgn	DRAWN	-	JDH	REVISED	-	
	PLOT SCALE = \$SCALE\$	CHECKED	-	KMM	REVISED	-	
	PLOT DATE = 2/5/2013	DATE	-		REVISED	-	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

INTERCONNECT TO

67TH STREET

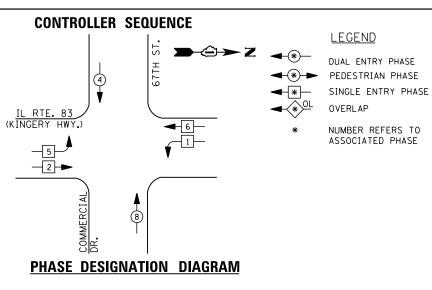
TRACER CABLE

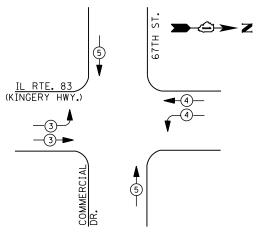
83

COUNTY TOTAL SHEET NO.

DUPAGE 88 87 IL RTE 83 AT PLAINFIELD ROAD SECTION SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE 2012-082TS CONTRACT NO. 60W00 SHEET NO. OF SHEETS STA.







#### **EMERGENCY VEHICLE PREEMPTION SEQUENCE**

EMERGENO	EMERGENCY VEHICLE PREEMPTORS						
EMERGENCY VEHICLE PREEMPTOR	3	4	5				
MOVEMENT	1		<b>+</b>				

	I. D. O. T.								
	TRAFFIC S	I GNAL I	NSTALLA	TION					
	ELECTRICAL SERVICE REQUIREMENTS								
TYPE	NO. LAMPS	WAT	TAGE	% OPERATIONS	TOTAL				
		INCAND.	LED		WATTAGE				
SIGNAL (RED)	18	1 35	1 7	0.50	153				
(YELLOW)	18	1 35	25	0.25	113				
( GREEN)	18	1 35	15	0.25	68				
ARROW		1 35	12	0.10					
PED. SIGNAL		90	25	1.00	-				
CONTROLLER	1	100	100	1.00	100				
ILLUM. SIGN		252	25	0.05					
VIDEO SYSTEM		150	ı	1.00					
FLASHER LED									
				TOTAL =	434				

ENERGY COSTS-

BILLED TO: IDOT DISTRICT 1

201 WEST CENTER COURT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY -

CONTACT ILYAS MOHIUDDIN
PHONE 708-235-2692

COMMONWEALTH EDISON

#### SCHEDULE OF QUANTITIES

 QUANTITY
 UNIT
 ITEM

 1
 EACH
 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

 1
 EACH
 MODIFY EXISTING CONTROLLER CABINET

 1
 EACH
 UNINTERRUPTABLE POWER SUPPLY, SPECIAL

INTERCONNECT TO

PLAINFIELD RD.

TRACER CABLE

UPS SHALL BE INSTALLED ON LEFT SIDE OF CONTROLLER CABINET DUE TO PHYSICAL CONSTRAINT, OR AS DIRECTED BY THE ENGINEER

- NO. 6 GREEN

**→**②→ Z

INTERCONNECT TO

TRACER CABLE

63RD. ST.

GREEN

.v

67ТН

(F)

**CABLE PLAN** 

COMMERCIAL

(m) > (v)

TS# 12215 WILLOWBROOK

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	DW	REVISED -			IL ROUTE 83 AT 67TH STREET	F.A.	SECTION	COUNTY TOTAL SHEET
N:\Projects3\12062\DesignCAD\Sheet Files	12215_CAB_DUPAGE.dgn	DRAWN -	JDH	REVISED -	STATE OF ILLINOIS	SCHE	DULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM	11111	2012-082TS	DUPAGE 88 88
	PLOT SCALE = \$SCALE\$	CHECKED -	КММ	REVISED -	DEPARTMENT OF TRANSPORTATION		AND EMERGENCY VEHICLE PREEMPTION SEQUENCE			CONTRACT NO. 60W00
	PLOT DATE = 2/5/2013	DATE -		REVISED -		SCALE, N.T.S	SHEET NO OF SHEETS STA TO STA	-	THE THOUGHTON	D AID DDO IECT

IL RTE. 83
KINGERY HWY.)

GREEN