BILL OF MATERIALS	
DESCRIPTION	UNIT
ELECTRIC UTILITY CONNECTION	5 EACH
DESCRIPTION ELECTRIC UTILITY CONNECTION ELECTRIC SERVICE INSTALLATION 5 E ELECTRIC SERVICE INSTALLATION 5 E ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C 350 MCM 525 LIN LIGHTING CONTROLLER, RADIO CONTROL DUPLEX CONSOLE TYPE MAINTENANCE OF LIGHTING SYSTEM 4 E UNIT DUCT WITH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE 41,584 LI TRENCH AND BACKFILL FOR ELECTRICAL WORK CONDUIT PUSHED, 3" DIA, GALVANIZED STEEL CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL ELECTRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT LIGHT POLE, ALUMINUM, 47.5 FT M.H., 15 FT MAST ARM BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE GROUND ROD, 5/8" DIA. X 10 FEET LIGHT POLE FOUNDATION, METAL, 10" DIA, 8 FT, 15" BC SPLICE CONDUCTORS IN EXISTING LIGHT POLE REMOVE LIGHTING CONTROLLER REMOVE LIGHTING CONTROLLER FOUNDATION 4 E REMOVE LIGHTING CONTROLLER FOUNDATION	5 EACH
	525 LINEAR FT
	5 EACH
MAINTENANCE OF LIGHTING SYSTEM	4 EACH
UNIT DUCT WITH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE	41,584 LINEAR F
TRIC SERVICE INSTALLATION 5 EACH TRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C 350 MCM 525 LINEAR TING CONTROLLER, RADIO CONTROL DUPLEX CONSOLE TYPE 5 EACH TENANCE OF LIGHTING SYSTEM 4 EACH DUCT WITH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE 41,584 LINEAL BUILT PUSHED, 3" DIA, GALVANIZED STEEL 1,320 LINEAR BUILT IN TRENCH, 3" DIA, GALVANIZED STEEL 490 LINEAR TRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT 1,020 LINEAR TRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT 1,020 LINEAR NAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT 164 EACH TOPOLE, ALUMINUM, 47.5 FT M.H., 15 FT MAST ARM 185 EACH KAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE 185 EACH IND ROD, 5/8" DIA. X 10 FEET 195 EACH TOPOLE FOUNDATION, METAL, 10" DIA, 8 FT, 15" BC 185 EACH CC CONDUCTORS IN EXISTING LIGHT POLE 46 EACH DVE POLE LABEL AND REINSTALL NEW LABEL ON POLE 46 EACH DVE LIGHTING CONTROLLER 44 EACH DVAL OF LIGHTING CONTROLLER FOUNDATION 44 EACH	
CONDUIT PUSHED, 3" DIA, GALVANIZED STEEL	1,320 LINEAR FT
CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL	490 LINEAR FT
ELECTRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT	1,020 LINEAR FT
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	164 EACH
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	21 EACH
LIGHT POLE, ALUMINUM, 47.5 FT M.H., 15 FT MAST ARM	185 EACH
BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE	185 EACH
GROUND ROD, 5/8" DIA. X 10 FEET	195 EACH
LIGHT POLE FOUNDATION, METAL, 10" DIA, 8 FT, 15" BC	185 EACH
ELECTRIC UTILITY CONNECTION ELECTRIC SERVICE INSTALLATION ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C 350 MCM LIGHTING CONTROLLER, RADIO CONTROL DUPLEX CONSOLE TYPE MAINTENANCE OF LIGHTING SYSTEM UNIT DUCT WITH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE TRENCH AND BACKFILL FOR ELECTRICAL WORK CONDUIT PUSHED, 3" DIA, GALVANIZED STEEL CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL ELECTRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT LIGHT POLE, ALUMINUM, 47.5 FT M.H., 15 FT MAST ARM BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE GROUND ROD, 5/8" DIA. X 10 FEET LIGHT POLE FOUNDATION, METAL, 10" DIA, 8 FT, 15" BC SPLICE CONDUCTORS IN EXISTING LIGHT POLE REMOVE POLE LABEL AND REINSTALL NEW LABEL ON POLE REMOVE LIGHTING CONTROLLER REMOVE LIGHTING CONTROLLER	46 EACH
	46 EACH
REMOVE LIGHTING CONTROLLER	4 EACH
REMOVAL OF LIGHTING CONTROLLER FOUNDATION	4 EACH
REMOVAL OF ELECTRICAL SERVICE INSTALLATION	4 EACH
ELECTRIC SERVICE INSTALLATION ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C 350 MCM LIGHTING CONTROLLER, RADIO CONTROL DUPLEX CONSOLE TYPE MAINTENANCE OF LIGHTING SYSTEM UNIT DUCT WITH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE TRENCH AND BACKFILL FOR ELECTRICAL WORK CONDUIT PUSHED, 3" DIA, GALVANIZED STEEL CONDUIT IN TRENCH, 3" DIA, GALVANIZED STEEL ELECTRICAL CABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 310 WATT LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT LIGHT POLE, ALUMINUM, 47.5 FT M.H., 15 FT MAST ARM BREAKAWAY DEVICE, TRANSFORMER BASE, 15" BOLT CIRCLE GROUND ROD, 5/8" DIA. X 10 FEET LIGHT POLE FOUNDATION, METAL, 10" DIA, 8 FT, 15" BC SPLICE CONDUCTORS IN EXISTING LIGHT POLE REMOVE POLE LABEL AND REINSTALL NEW LABEL ON POLE REMOVE LIGHTING CONTROLLER REMOVAL OF LIGHTING CONTROLLER FOUNDATION	

GENERAL NO

- 1. ALL WORK SHAL
- 2. CONTRACTOR TO
- 3. UNLESS OTHERW
- 4. CONTRACTOR SH PLANTS, SOUND
- 5. ALL ROADWAY
- 6. UNIT DUCTS LO
- 7. ALL OF THE NE
- 8. EXISTING LIGHT
- 9. PROPOSED LIGH
- 10. FOR DETAIL O
- 11. ALL LIGHT POL
- 12. ALL LUMINAIR
- 13. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK ARE PROPOSED NEW ITEMS OF WORK.
- 14. CONTRACTOR SHALL PROVIDE A 175A ELECTRIC SERVICE TO EACH LIGHTING CONTROLLER. PROVIDE 3-1/C 350 KCMILS IN 3 INCH RGS CONDUIT. ALL TRENCHING AND BACKFILLING BY CONTRACTOR. COORDINATE SERVICE INSTALLATION WITH Com-Ed AND IDOT STANDARDS.
- 15. AT LOCATIONS WHERE AN EXISTING LIGHTING CONTROLLER IS BEING REMOVED AND A NEW LIGHTING CONTROLLER INSTALLED RADDWAY LIGHTING SHALL NEVER BE OFF AT NIGHT. COORDINATE FOUNDATION WORK SO LIGHTING CONTROL CABINETS CAN BE DONE DURING DAYLIGHT HOURS WITHIN ONE DAY.
- 16. CONTRACTOR SHALL VERIFY THERE IS SUFFICIENT SLACK IN CONDUCTORS THAT WILL BE REUSED WHERE LIGHTING CONTROLLERS ARE BEING REPLACED.
- 17. LIGHT POLES SHALL BE A MINIMUM OF 30 FEET AWAY FROM HIGH VOLTAGE LINES INDICATED ON PLANS.

in constr, con the first transfer of the constraints	020 221121111111		
ROLLER, RADIO CONTROL DUPLEX CONSOLE TYPE	5 EACH		GROUND ROD 5/8" DIA. X 10', PROPOSED
OF LIGHTING SYSTEM	4 EACH	÷	GROUND ROD 376 DIA. X 10, FROFOSED
TH 3-1/C NO. 2, 1-1/C NO. 4 GROUND, 600V (EPR-TYPE RHW) 1 1/2" DIA. SCHEDULE 40 POLYETHYLENE	41,584 LINEAR FT	~~~	47'-6" M.H. LIGHT POLE WITH 15'-0" MAST ARM (SEE SHEET E36) AND
ACKFILL FOR ELECTRICAL WORK	42,074 LINEAR FT	\sim	MCIII HELIX BASE (SEE SHEET E35), PROPOSED (GE M-400A SERIES, MC
ED, 3" DIA, GALVANIZED STEEL	1,320 LINEAR FT	•	
RENCH, 3" DIA, GALVANIZED STEEL	490 LINEAR FT	•————————————————————————————————————	45'-0" M.H. COMBINATION LIGHT AND TRAFFIC POLE WITH A 15'-0" MAS TYPE MCIII FUTURE, POLE AND MAST ARM FOR TRAFFIC SIGNAL FURNIS
ABLE IN CONDUIT, REMOVE ALL CONDUCTORS FROM CONDUIT	1,020 LINEAR FT		
DIUM VAPOR, HORIZONTAL MOUNT, 310 WATT	164 EACH	abla	
DIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	21 EACH	T-7- 	45'-0" M.H. COMBINATION LIGHT AND TRAFFIC POLE WITH TWIN 90 DEG LUMINAIRES TYPE MCIII FUTURE, POLE AND MAST ARM FOR TRAFFIC SI
LUMINUM, 47.5 FT M.H., 15 FT MAST ARM	185 EACH	~	
VICE, TRANSFORMER BASE, 15" BOLT CIRCLE	185 EACH	· XX	EXISTING LIGHTING UNIT
5/8" DIA. X 10 FEET	195 EACH	o—Œ	EASTING EIGHTING GILT
DUNDATION, METAL, 10" DIA, 8 FT, 15" BC	185 EACH		
CTORS IN EXISTING LIGHT POLE	46 EACH		RGS CONDUIT CAPPED AS SPARE
LABEL AND REINSTALL NEW LABEL ON POLE	46 EACH		
ING CONTROLLER	4 EACH		RGS CONDUIT PUSHED PROPOSED, SEE PLANS FOR SIZES
IGHTING CONTROLLER FOUNDATION	4 EACH	[]	RGS CONDUIT PUSHED EXIST.
LECTRICAL SERVICE INSTALLATION	4 EACH		
		J	LIGHTING JUNCTION BOX PROPOSED, SEE PLAN FOR SIZES
		ם₌	LIGHTING JUNCTION BOX EXISTING, SEE PLAN FOR SIZES
			UNIT DUCT, PROPOSED, SEE PLANS FOR SIZES
	.		EVICTING UNIT DUCT
			EXISTING UNIT DUCT
			FUTURE UNIT DUCT
		BL BASE	LINE OF RAMP
		EOP EDGE	OF PAVEMENT
		EOS EDGE	OF SHOULDER
		GND GROUN	D
		HPS HIGH	PRESSURE SODIUM
		LT LEFT	OF STATION (VIEWED IN DIRECTION OF INCREASING STATION NUMBERS)
		MA MAST	ARM
		MH MOUNT	ING HEIGHT
NOTES.		ML MAIN	LINE (ROADWAY) CENTERLINE
NOTES:		RGS RIGID	GALVANIZED STEEL CONDUIT
HALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.		ROW RIGHT	OF WAY
R TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING, PUSHING OR AUGERING.		RT RIGHT	OF STATION (VIEWED IN DIRECTION OF INCREASING STATION NUMBERS)
ERWISE INDICATED ALL RACEWAY PUSHES ARE 3 INCH RIGID GALVANIZED STEEL CONDUIT.		TYP TYPIC	AL .
R SHALL TAKE ALL NECESSARY MEASURES TO RESTORE ANY SPECIALIZED LANDSCAPING, (I.e. DECORATIVE ROCK	KS, SHRUBS,		<u>St</u>
UNDWALL, ETC.) OR SHALL REPLACE IT, THE COST OF WHICH SHALL BE CONSIDERED INCIDENTAL TO CONTRACT	•	<u>LIGHT POLE LA</u>	BEL LEGEND:
Y POLES SHALL BE UL LISTED.		CON	TROL CABINET
LOCATED WITHIN ONE FOOT OF EACH OTHER SHALL BE INSTALLED IN A COMMON TRENCH.			PUITRY E NUMBER
NEW LUMINAIRES FOR THE PROPOSED LIGHTING SHALL BE INSTALLED AT A MOUNTING HEIGHT OF 47'-6".			E NUMBER ET
GHT POLES SHALL NOT BE REMOVED.	NEW DOLDWAY LESSES		
IGHTING CONTROLLER "WV" SHALL BE INSTALLED AND ENGERIZED PRIOR TO THE START OF INSTALLATION OF	NEW ROADWAY LIGHTING.	X B 12	
L OF WIRING IN POLE AND TRENCH FOR INSTALLATION OF UNIT DUCT SEE SHEET E22.			
POLES SHALL HAVE A SET BACK OF 20 FEET OFF THE EDGE OF THE TRAVELED PAVEMENT.			
AIRES ARE 310 WATT HIGH PRESSURE SODIUM UNLESS OTHERWISE NOTED ON THE PLANS.			
HERWISE INDICATED ALL ITEMS AND WORK ARE PROPOSED NEW ITEMS OF WORK			F1

One Honey Creek Corporate Center 125 South 84th Street, Suite 401 Milwaukees, WI 53214-1470 414 259-1500 FAX 259-0037

USER NAME = \$USER\$	DESIGNED	-	BDB/CMP	REVISED -	
	DRAWN	-	JCC	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED	-	BDB	REVISED -	
PLOT DATE = 12/28/2007	DATE	-	12-31-07	REVISED -	

LEGEND:

 \Box

PROPOSED LIGHTING CONTROLLER, SINGLE TYPE

47'-6" M.H. LIGHT POLE WITH 15'-0" MAST ARM (SEE SHEET E36) AND A 310W HPS LUMINAIRE TYPE (UNLESS OTHERWISE INDICATED ON PLAN)

LUMINAIRES TYPE MCIII FUTURE, POLE AND MAST ARM FOR TRAFFIC SIGNAL FURNISHED AND INSTALLED BY OTHERS AND NOT PART OF THE CONTRACT

45'-0" M.H. COMBINATION LIGHT AND TRAFFIC POLE WITH A 15'-0" MAST ARM AND A 310W HPS LUMINAIRE
TYPE MCIII FUTURE, POLE AND MAST ARM FOR TRAFFIC SIGNAL FURNISHED AND INSTALLED BY OTHERS AND NOT PART OF THE CONTRACT

MCIII HELIX BASE (SEE SHEET E35), PROPOSED (GE M-400A SERIES, MC3; HUBBELL RLC SERIES, MC3) OR APPROVED EQUAL

45'-0" M.H. COMBINATION LIGHT AND TRAFFIC POLE WITH TWIN 90 DEGREE 15'-0" MAST ARM AND 2-310W HPS

EXISTING UTILITY POWER POLE

IL 394 SAFETY IMPROVEMENTS - GOODNOW ROAD TO BURRVILLE ROAD F.A.F. SECTION COUNTY SYMBOLS, ABBREVIATIONS, GENERAL NOTES, AND 2007-044 I WILL & COOK 53 31 332 SUMMARY OF QUANTITIES CONTRACT NO. 60D34 SCALE: NTS SHEET NO. 1 OF 22 SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SHEET INDEX:

SYMBOLS, ABBREVIATIONS, GENERAL NOTES, AND SUMMARY OF QUANTITIES