



CONTROL CABINET - DETAILS

ONE LINE CIRCUIT DIAGRAM

ELECTRIC POWER SUPPLY POLE MOUNTED TRANSFORMER

NOTES

THE CABINET SHALL BE FABRICATED FROM 0.125" THICK ALUMINUM ALLOY SHEET AND SHALL BE REINFORCED WITH ALUMINUM ANGLES. THE CABINET DOOR SHALL BE NEMA TYPE 3 CONSTRUCTION WITH NEOPRENE GASKET. THE DOOR SHALL HAVE STAINLESS STEEL HINGES AND THREE POINT LOCKING SYSTEM.

THE CONTRACTOR SHALL REMOVE VEGETATION AND TOPSOIL, LEVEL THE AREA IN FRONT OF THE CONTROL CABINET DOOR AND PLACE LENGTH WISE, PARALLEL TO CONTROL CABINET, A PRECAST PAD, 36"x36"x3" MINIMUM SIZE. THE COST OF LABOR AND MATERIALS SHALL BE INCIDENTAL TO THE CONTROL CABINET.

CONTROL WIRE SHALL BE #12 AWG, 600V, TYPE 'MTW' STRANDED COPPER GRAY SWITCH BOARD WIRE. THE ENDS OF ALL CONTROL WIRES SHALL BE IDENTIFIED.

THE ELECTRIC METER BOX SHALL BE MOUNTED ON THE SIDE OF THE CONTROL CABINET, NEAR TO THE SERVICE POLE AND/OR AS DIRECTED BY THE ENGINEER.

ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE PERMANENT SELF STICKING TAGS. DEVICES IN ENCLOSURES SHALL HAVE ENGRAVED 2-COLOR LAMINATED PLASTIC NAMEPLATES ATTACHED TO ENCLOSURES WITH SCREWS. NAMEPLATES SHALL BE ENGRAVED TO CORRESPOND TO DESIGNATIONS ON THE DRAWINGS. INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.

ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
 R = RED BL = BLUE W = WHITE
 B = BLACK O = ORANGE G = GREEN

PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.

THE CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.

THE HEADS OF CONNECTOR SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BUSS CONNECTION AND GREEN FOR GROUND BUSS CONNECTORS.

ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".

PROVIDE A HOLDER AND WATERPROOF POUCH ON THE INNER SIDE OF THE CONTROLLER DOOR. THE HOLDER AND POUCH SHALL BE MOUNTED SO THAT RAIN WATER OR CONDENSED WATER CANNOT ENTER THE POUCH WITH THE CABINET DOOR OPEN. FURNISH A LAMINATED THE APPROVED COPY OF THE "CONTROL CABINET WIRING DIAGRAM".

THE CONTRACTOR SHALL OBTAIN ANCHOR BOLTS LOCATION TEMPLATE FROM THE FABRICATOR OF LIGHTING CONTROLLER

THE CONTROLLER FABRICATION SHALL COMPLY TO ARTICLE 1068.01 OF THE STANDARD SPECIFICATIONS

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	1	MAIN BREAKER 2P/200A C/H ED2200
B	2	CONTACTOR 2P/100A SQ.D8903PBQ10V38
C	2	BREAKER 1P/15A C/H EHD1015
D	1	SURGE ARRESTOR EDCC SHA 2403
E	1	PHOTOCELL FISHER PIERCE FA105M
F	1	ASTRONOMICAL TIME CLK.TORK DZS200A
G	1	RESERVED
H	1	NEUTRAL BUS
I	24	BREAKER 1P/30A C/H EHD1030
J		RESERVED
K	1	GROUND BUS
N	1	GFCI RECEPTACLE 20A LEVITON 8899
O	1	DOOR SWITCH MICRO BA2RQ1-A2
P	1	LIGHT FIXTURE LEVITON 29816C
R	2	RELAY MAGNECRAFT W389ACX-9
S	2	H-O-A SWITCH SQ.D 9001 KYK-111
T	1	MILBANK U-8949 METER FITTING
U	1	MARATHON 1452129 SPLICE BLOCK
V	1	ALTECH 38041 SPLICE BLOCK

COMPANY NAME: Smith
 PROJECT CONTACT: Smith
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VILLAGE OF MUNDELEIN

ELECTRIC CONTROLLER, SPECIAL U.S. ROUTE 45 (LAKE STREET)

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. 121+05 TO STA. 126+25

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	09-00089-00-LS	LAKE	13	11
CONTRACT NO. 63448				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				