


CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY 0005	TRAFFIC SIGNALS 0021	HIGHWAY LIGHTING 0021
# 80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1			1
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4414		4414	
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	93		93	
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1058		456	602
81400100	HANDHOLE	EACH	12		12	
81400200	HEAVY-DUTY HANDHOLE	EACH	4		4	
81400300	DOUBLE HANDHOLE	EACH	3		3	
<del>81603110</del>	<del>UNIT DUCT, 600V, 4 1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE</del>	<del>FOOT</del>	<del>4650</del>			<del>4650</del>
81603136	UNIT DUCT, 600V, 5-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	4650			4650
81702160	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 1/0	FOOT	366			366
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	396			396
# 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1	
87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3843		3843	

\* SPECIALTY ITEM  
# SPECIAL PROVISION AND/OR DETAIL

△ 1 REV. 08-19-16  
△ 2 REV. 08-31-16

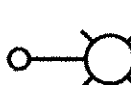






**GENERAL NOTES:** 

1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG BARRINGTON ROAD FROM NORTH OF MAPLE AVENUE TO SOUTH OF IRVING PARK ROAD. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF HANOVER PARK.
2. THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE FIELD CONTACT PERSON IS SHERON GEETERS (847) 608-2400.
3. THE QUANTITIES OF RACEWAY WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING DIGGING WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL AND DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES. THIS SHALL INCLUDE LOCATING LIGHTING FOUNDATIONS AND VERIFYING THE MAST ARM LENGTH.
6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE U/L LISTED AND LABELED.
9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
10. THE QUANTITY FOR THE PROPOSED CONCRETE LIGHT POLE FOUNDATION, 24" DIAMETER IS BASED ON 12 FEET PER POLE FOUNDATION. THIS IS BASED ON A GEOTECHNICAL ENGINEERING ANALYSIS AND EVALUATION REPORT PERTAINING TO THIS BARRINGTON RD. PROJECT. HOWEVER, THE ACTUAL FOUNDATION DEPTH MAY VARY BASED ON THE SOIL CONDITIONS AT THE ACTUAL POLE LOCATION.

**BILL OF MATERIALS**

DESCRIPTION	UNIT	QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	1
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	602
UNIT DUCT, 600V, 5-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE) , 1 1/2" DIA. POLYETHYLENE	FOOT	4650
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 1/0	FOOT	366
LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	396
LUMINAIRE, LED, HORIZONTAL MOUNT, SPECIAL	EACH	33
LIGHTING CONTROLLER, SPECIAL	EACH	1
LIGHT POLE, SPECIAL	EACH	23
LIGHT POLE, SPECIAL, TYPE 2	EACH	10


**LEGEND**

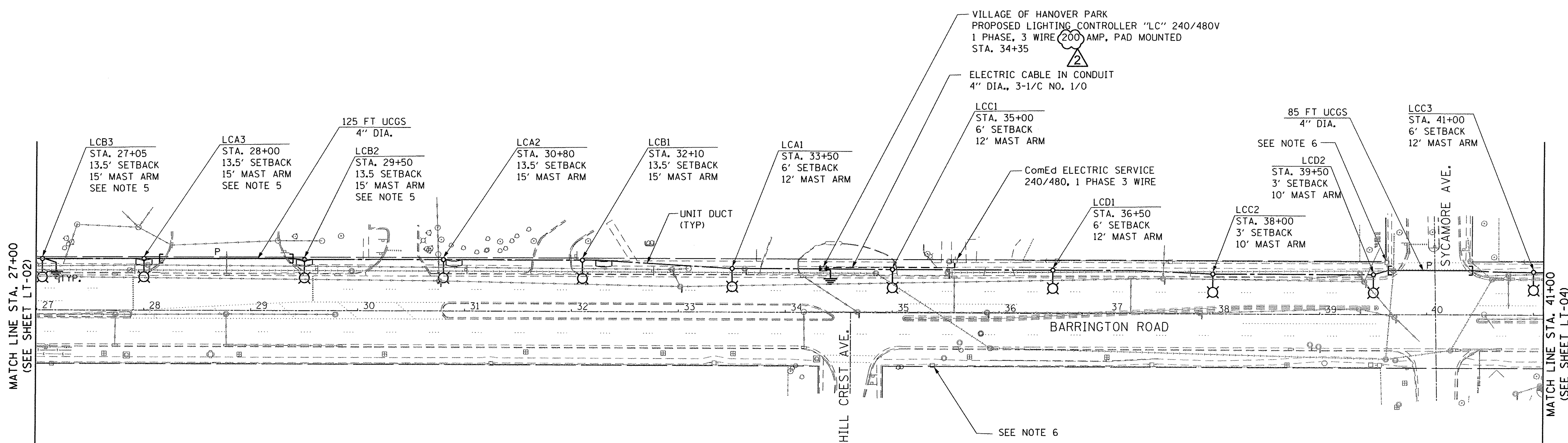
-  PROPOSED LIGHTING UNIT, 47.5 FT. MH, MAST ARM AS SPECIFIED, 240V (LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
-  UNIT DUCT, 600V, 5-1C NO. 4, 1/C NO. 6 GROUND (XLP-TYPE USE) 1 1/2" DIA. POLYETHYLENE
-  ComEd ELECTRIC SERVICE 240/480V, 1 PHASE 3 WIRE
-  PROPOSED LIGHTING CONTROLLER "LC " 240/480V, 3 WIRE 200 AMP, PAD MOUNTED
-  RIGID GALVANIZED STEEL CONDUIT, UNDERGROUND
-  ELECTRIC CABLE IN CONDUIT 4" DIA., 3-1/C NO. 1/0
-  GROUND ROD 5/8" DIA. X 10 FT

 REV. 8-12-16

LT-01

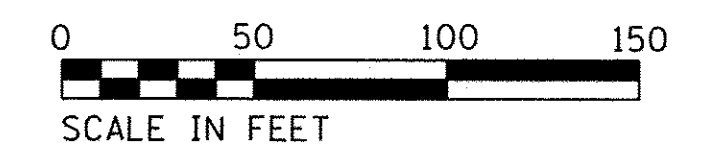
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 <b>AMES Engineering, Inc.</b> CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515	USER NAME = MDeitche	DESIGNED - BL	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, BILL OF MATERIALS AND LEGEND</b> <b>BARRINGTON ROAD - MAPLE AVENUE TO IL 19 (IRVING PARK ROAD)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / 1" =	DRAWN - RV	REVISED -			362	13-00062-00-SP	COOK	48	36
	PLOT DATE = 8/15/2016	CHECKED - MB	REVISED -			CONTRACT NO. 61D06				
		DATE - 07-22-16	REVISED -			SCALE: N.T.S	SHEET OF SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT



**NOTES:**

1. FOR LEGEND AND GENERAL NOTES SEE SHEET LT-01.
2. SET BACK IS FROM THE FACE OF CURB TO THE CENTER OF LIGHT POLE.
3. UCGS STANDS FOR UNDERGROUND CONDUIT, GALVANIZED STEEL.
4. THE CONTRACTOR SHALL USE CARE WITH THE POLE INSTALLATIONS NEAR THE EXISTING SANITARY SEWER AND STORM SEWER.
5. BANNERS SHALL BE PROHIBITED ON THIS LIGHT POLE.
6. EXISTING ComEd MAST ARM AND LUMINAIRE SHALL REMAIN IN USE DURING ALL PHASES OF CONSTRUCTION. THESE SHALL BE REMOVED ONLY WHEN PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL. CONTRACTOR SHALL CONTACT ComEd FOR COORDINATION.



REV. 8-12-16

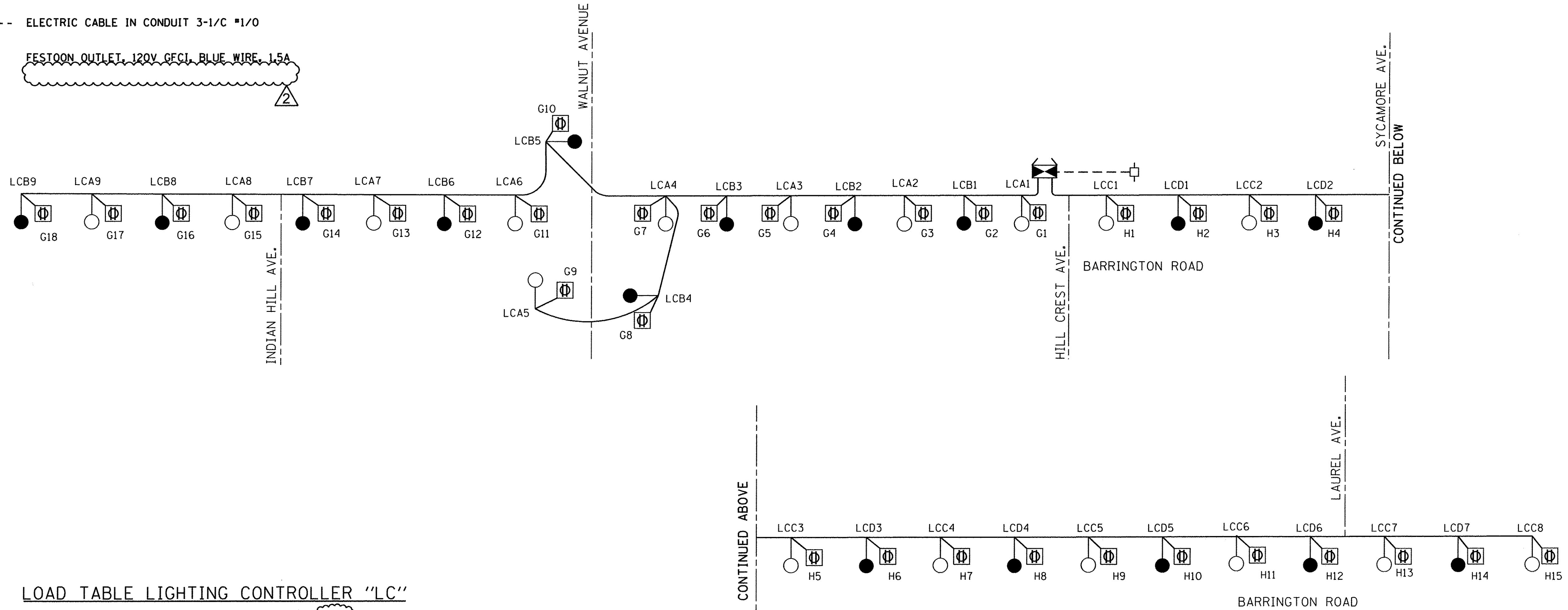
LT-03

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<b>AMES Engineering, Inc.</b> CONSULTING ENGINEERS 5413 Walnut Avenue, Ste 2 Downers Grove, IL 60515	USER NAME = MDeitche	DESIGNED - BL	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED LIGHTING PLAN</b> <b>BARRINGTON ROAD - MAPLE AVENUE TO IL 19 (IRVING PARK ROAD)</b>		F.A.P. RTE. 362	SECTION 13-00062-00-SP	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 38		
	PLOT SCALE = 50,0000' / 1"	CHECKED - MB	REVISED -		SCALE: 1" = 50'	SHEET 2 OF 3 SHEETS	STA. 27+00 TO STA. 41+00	CONTRACT NO. 61D06					
	PLOT DATE = 8/15/2016	DATE - 07-22-16	REVISED -			FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT M-4003(621)							

**LEGEND**

- LUMINAIRE LED, 284W, 240V, RED WIRE, 1.3A
- LUMINAIRE LED, 284W, 240V, BLACK WIRE, 1.3A
- UNIT DUCT 5 1C #4 AND 1/C #6 GROUND
- ⊠ PROPOSED LIGHTING CONTROLLER "LC" 240/480V, 1 PHASE, 3 WIRE, 200 AMP
- ELECTRIC SERVICE 240/480V SINGLE PHASE, 3 WIRE
- - - - - ELECTRIC CABLE IN CONDUIT 3-1/C #1/0
- ⊕ FESTOON OUTLET, 120V GFCI, BLUE WIRE, 1.5A



**LOAD TABLE LIGHTING CONTROLLER "LC"**  
240/480V, 1 PHASE, 3 WIRE, 200AMP

RED			BLACK		
CIRCUIT	AMPS @ 240V	VA	CIRCUIT	AMPS @ 240V	VA
A	11.7	2808	B	11.7	2808
C	10.4	2496	D	9.1	2184
E	SPARE	SPARE	F	SPARE	SPARE
G	27 @ 120V	3240	H	22.5 @ 120V	2700
<b>TOTAL</b>	<b>49.1</b>	<b>8544</b>	<b>TOTAL</b>	<b>43.3</b>	<b>7692</b>
<b>TOTAL LOAD</b>		<b>92A</b>			

**NOTE:**  
1. SEE SHEET LT-09 (REVISED IDOT D1 STANDARD BE 702) WIRING FOR LIGHTING AND FESTOON OUTLETS CONNECTIONS.

REV. 8-12-16

LT-05

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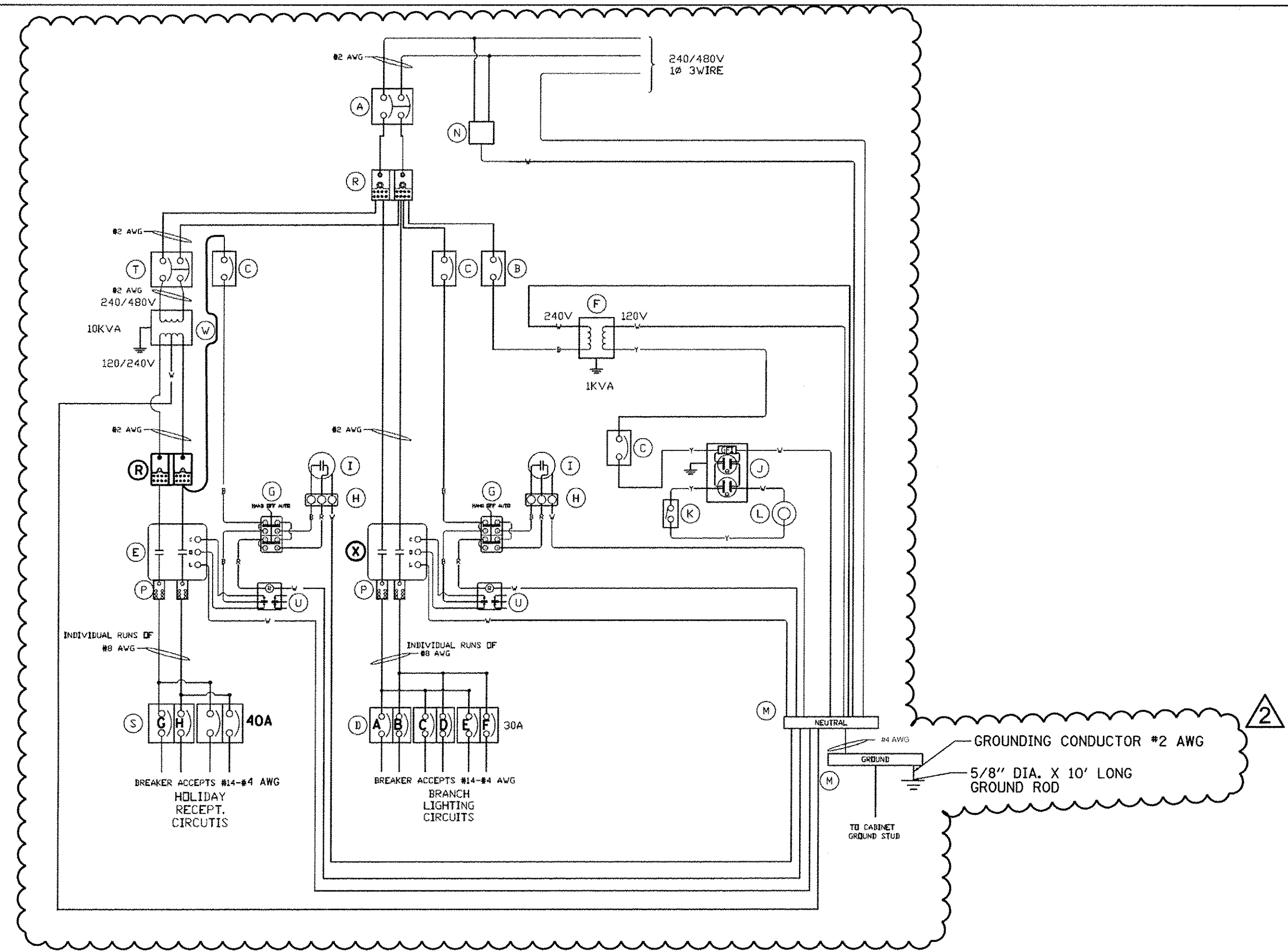
**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME = MDeitche	DESIGNED - BL	REVISED -
PLOT SCALE = 50.0000' / 1"	DRAWN - RV	REVISED -
PLOT DATE = 8/15/2016	CHECKED - MB	REVISED -
	DATE - 07-22-16	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ONE LINE WIRING DIAGRAM**  
**BARRINGTON ROAD - MAPLE AVENUE TO IL 19 (IRVING PARK ROAD)**  
SCALE: NONE SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

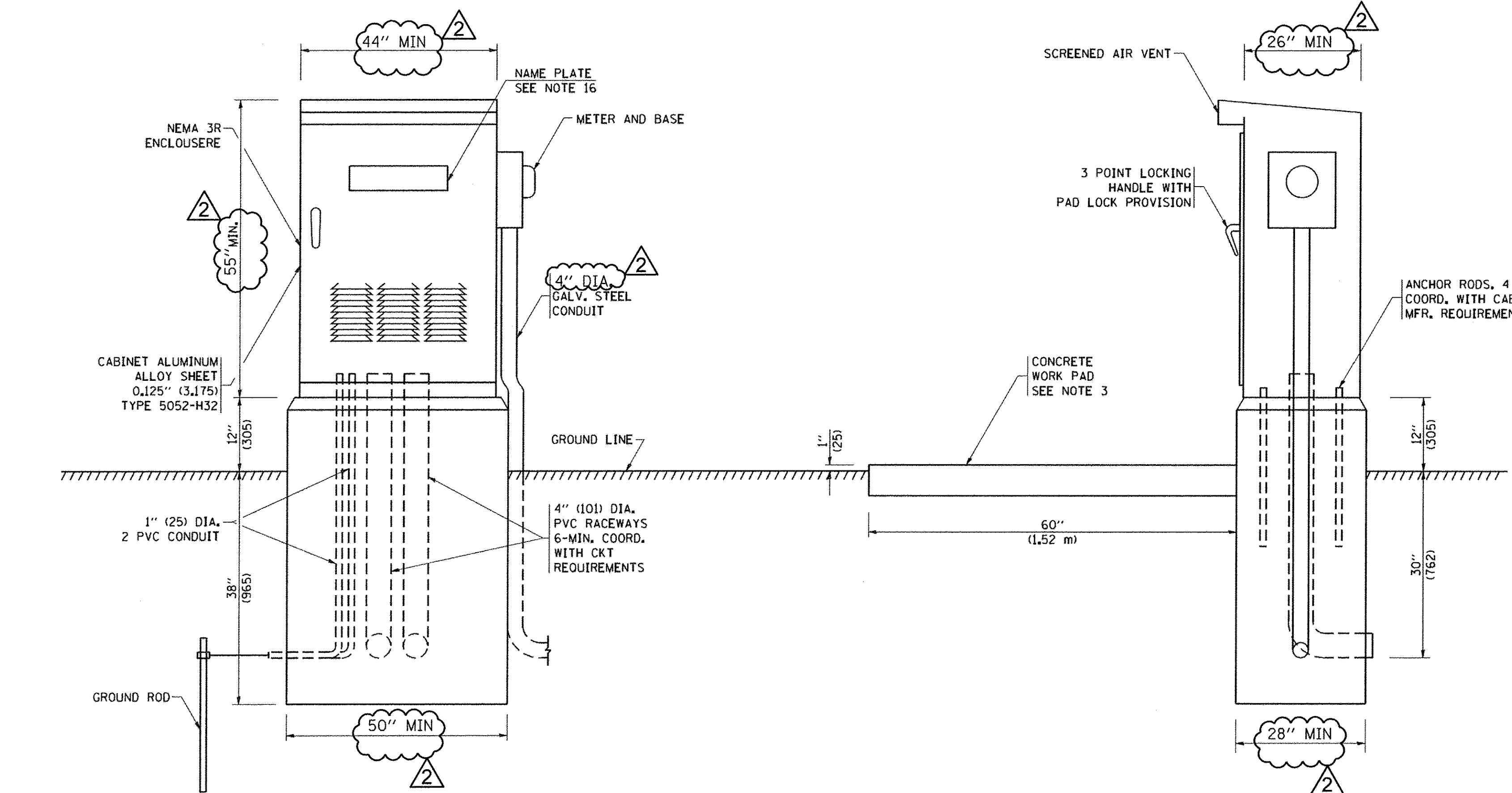
F.A.P. RTE. 362	SECTION 13-00062-00-SP	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 40
CONTRACT NO. 61D06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003621				



**NOTES:**

1. ALL POWER WIRING WILL BE RHH/RHW
2. ALL CONTROL WIRING WILL BE #12 MTW
3. WIRE COLORS:  
 BL = BLUE  
 W = WHITE  
 B = BLACK  
 R = RED  
 Y = YELLOW

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	1	2P/200A MAIN BREAKER/2
B	1	SQ.D FAL14020 1P/20A TRANS PRI BREAKER
C	3	SQ.D FAL14015 1P/15A CONTROL/AUX
D	6	SQ.D FAL14030 1P/30A BRANCH BREAKERS
E	1	SQ.D 8903PB010V02 120V COIL (100A) CONTACTOR
F	1	HAMMOND C1F05L5 1 KVA TRANSFORMER
G	2	SQ.D 9001KYK111 H.O.A. SWITCH 2
H	2	CINCH 3PT TERMINAL BLOCK
I	2	FISHER PIERCE FPFA-105M PHOTOCCELL
J	1	HUBBELL GF20ILA GFCI RECPT.
K	1	HUBBELL CS1221 SPST LIGHT SWITCH
L	1	RAB VX100DG LIGHT FIXTURE
M	2	12" x 1" x 1/4" GROUND/NEUTRAL BUS
N	1	SPDEE S50A27V2PN SURGE ARRESTER
O	4	RESERVED
P	4	C.H. 6 HOLE LUGS
R	2	DIST BLOCK
S	4	SQ.D FAL12040 1P/40A BREAKER 2
T	1	SQ.D FAL24030 2P/30A
U	2	ZELIO RPF2BP7 240V COIL RELAY
W	1	HAMMOND C1F010L5 10 KVA TRANSFORMER
X	1	SQ.D 8903PBV10V03 240 COIL, 200A CONTACTOR



- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. FOUNDATION SIZE SHALL BE COORDINATED WITH CABINET SIZE AND MFR.
  3. IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18,288 mm) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
  4. DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
  5. DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
  6. DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
  7. ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
  8. CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
  9. METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
  10. CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
  11. THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
  12. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.  
 R = RED      BL = BLUE      W = WHITE  
 B = BLACK    Y = YELLOW      G = GREEN
  13. PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
  14. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
  15. THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
  16. 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

2 REV. 8-30-16

FILE NAME = F:\Projects\2013-01\Barrington Rd - BLA\Design\Shk\774-020-Shk\_Ltgr-08.dgn

**AMES Engineering, Inc.**  
 CONSULTING ENGINEERS  
 5413 Walnut Avenue, Ste 2  
 Downers Grove, IL 60515

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	DATE -	REVISED -

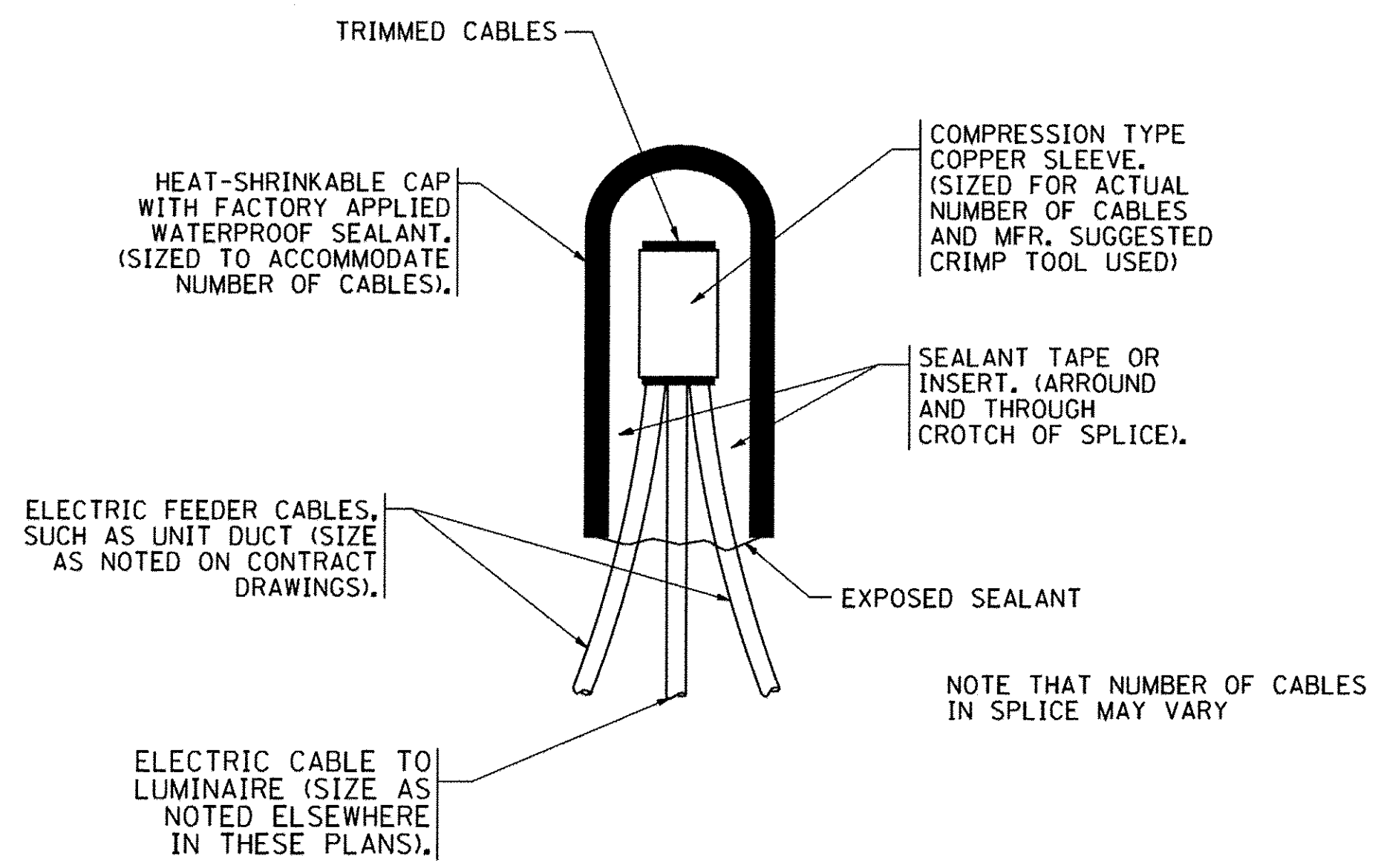
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER  
 SINGLE DOOR**

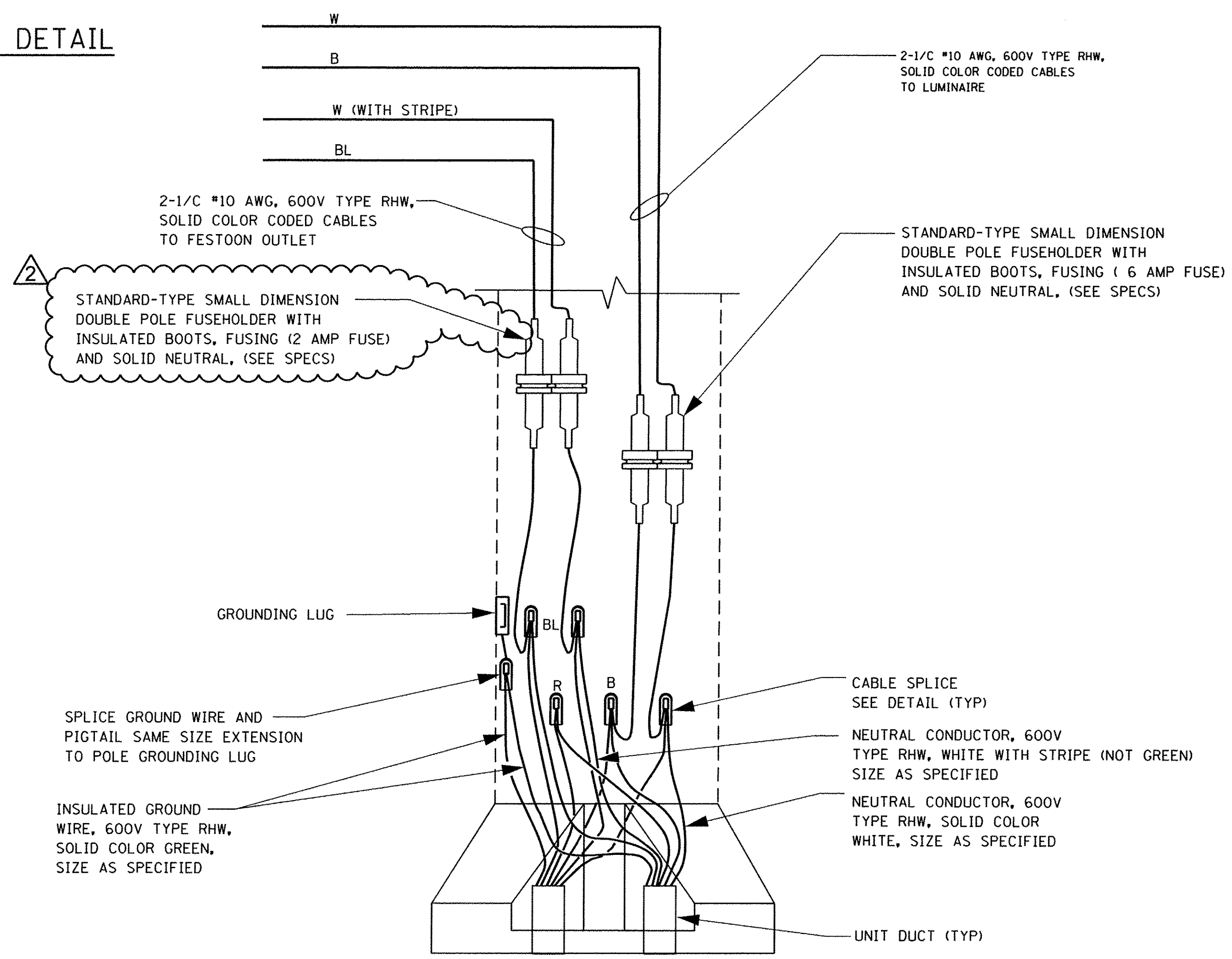
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F.A.P. RTE. 362	SECTION 13-00062-00-SP	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 41
CONTRACT NO. 61D06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003(62D)				

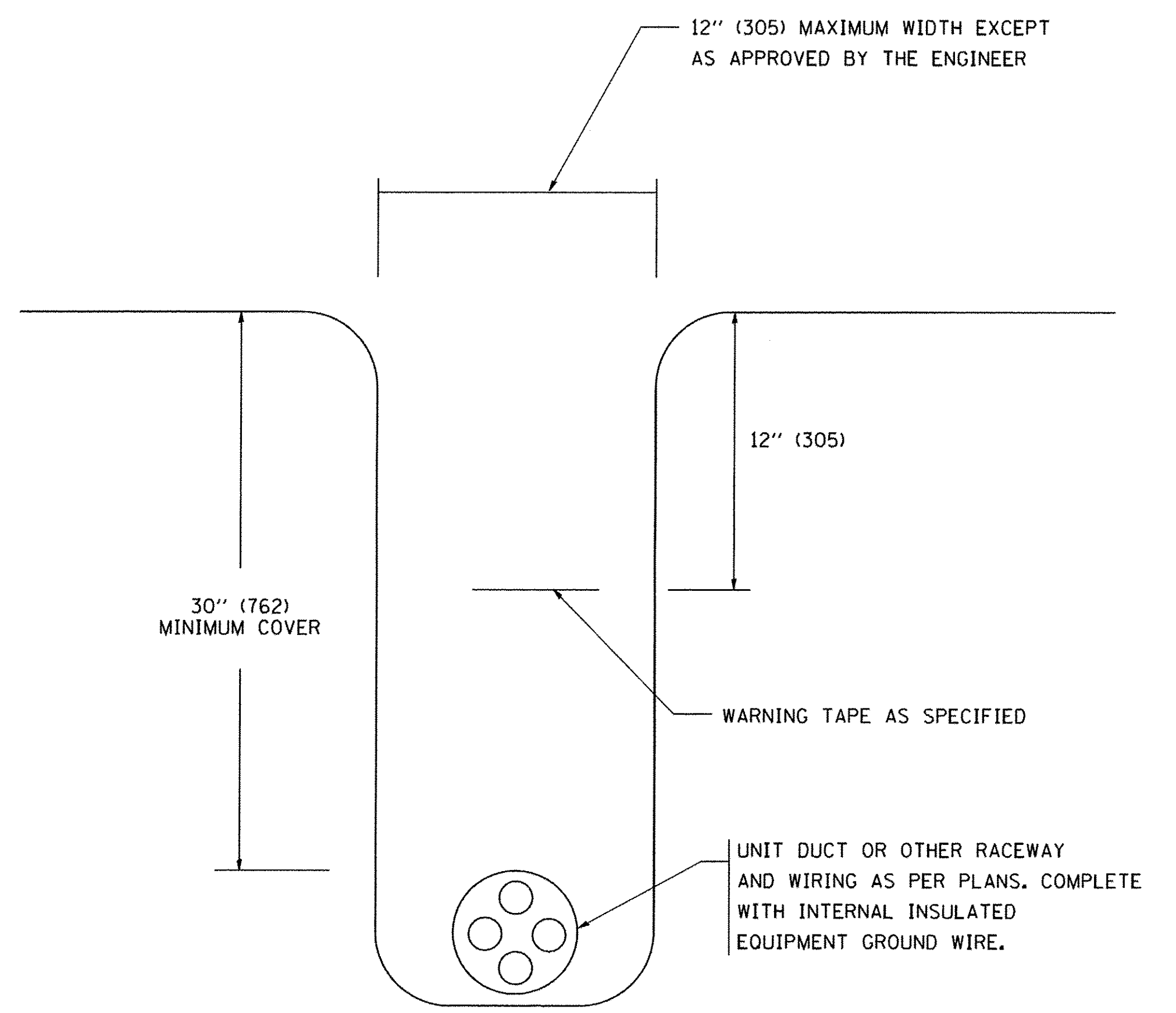
LT-06



TYPICAL SPLICE DETAIL  
N.T.S.



POLE BASE WIRING DIAGRAM  
N.T.S.



TYPICAL WIRING IN TRENCH DETAIL  
N.T.S.

REV. 8-12-16

FILE NAME = F:\Projects\2013-01\Barrington Rd - Blair Design\Sheet\74-020-Sht-L.tg-09.dgn

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Downers Grove, IL 60515

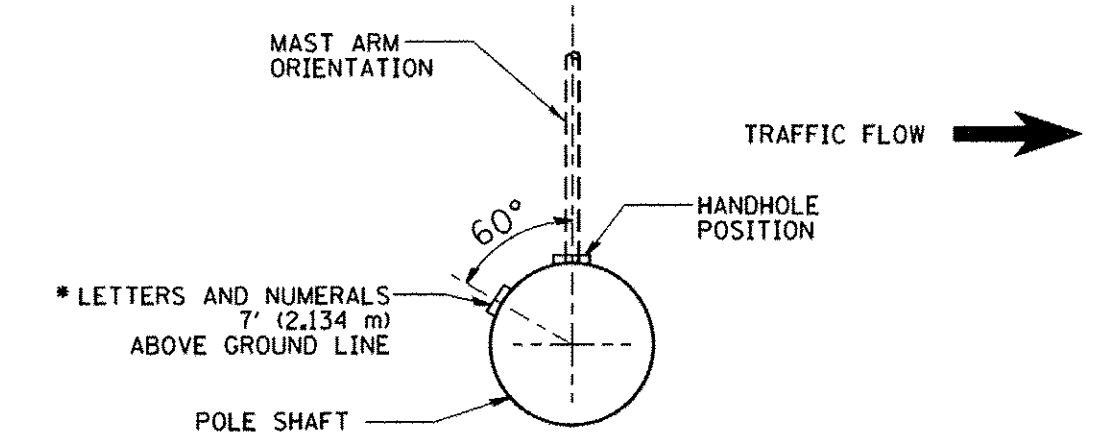
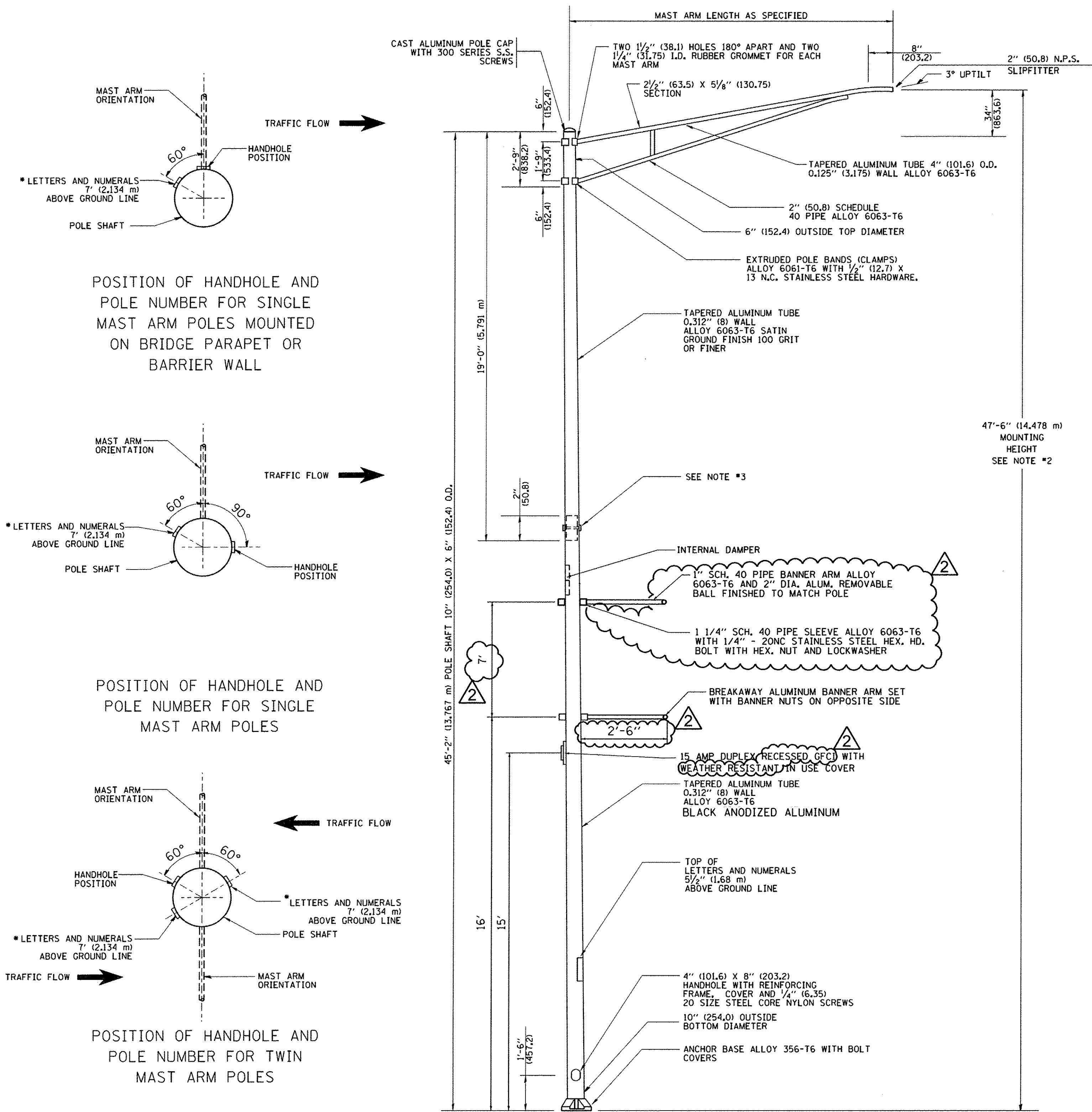
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

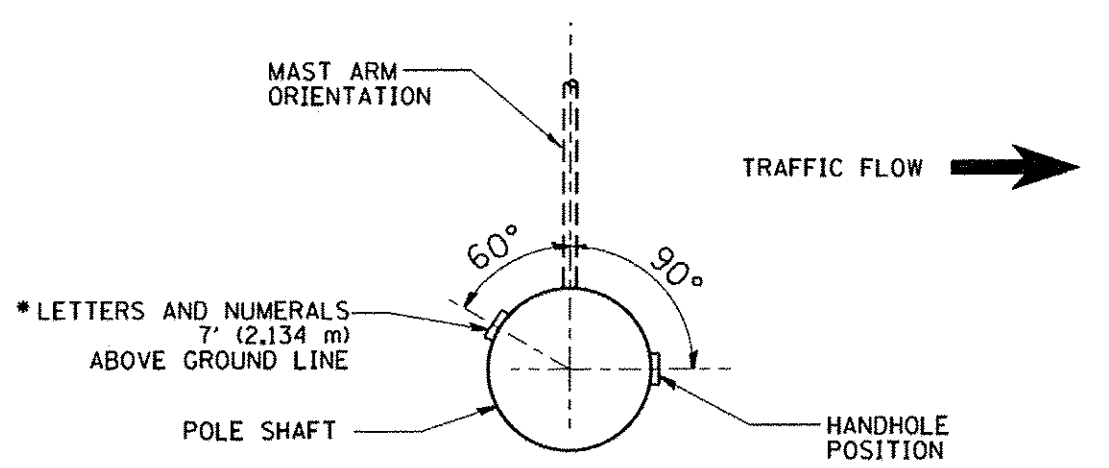
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F.A.P. RTE. 362	SECTION 13-00062-00-SP	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 44
CONTRACT NO. 61D06				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-4003621				

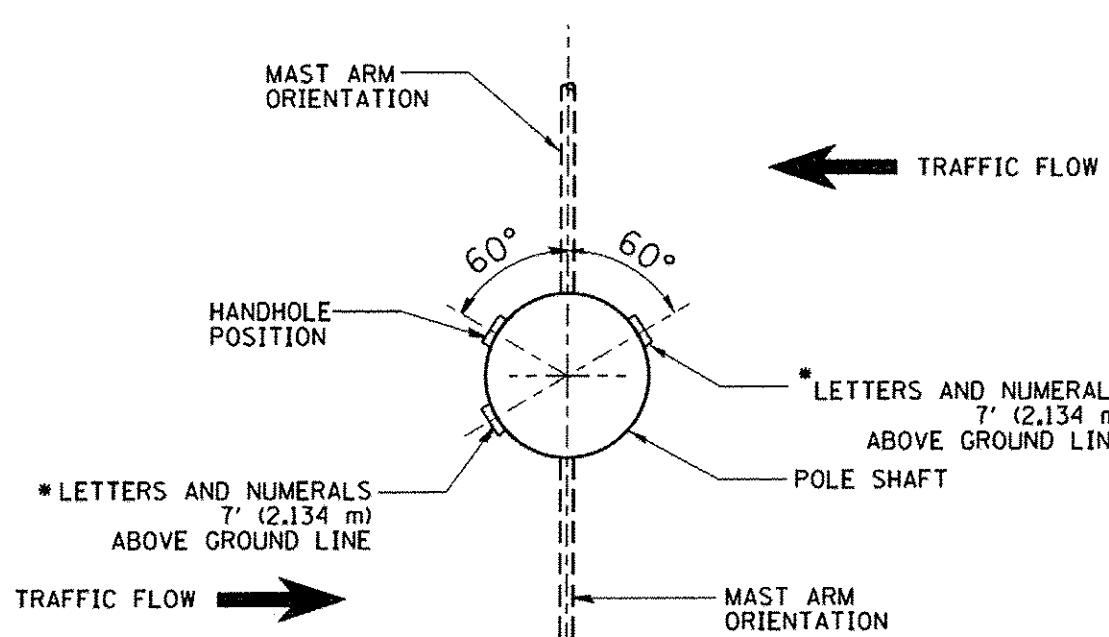
LT-09



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

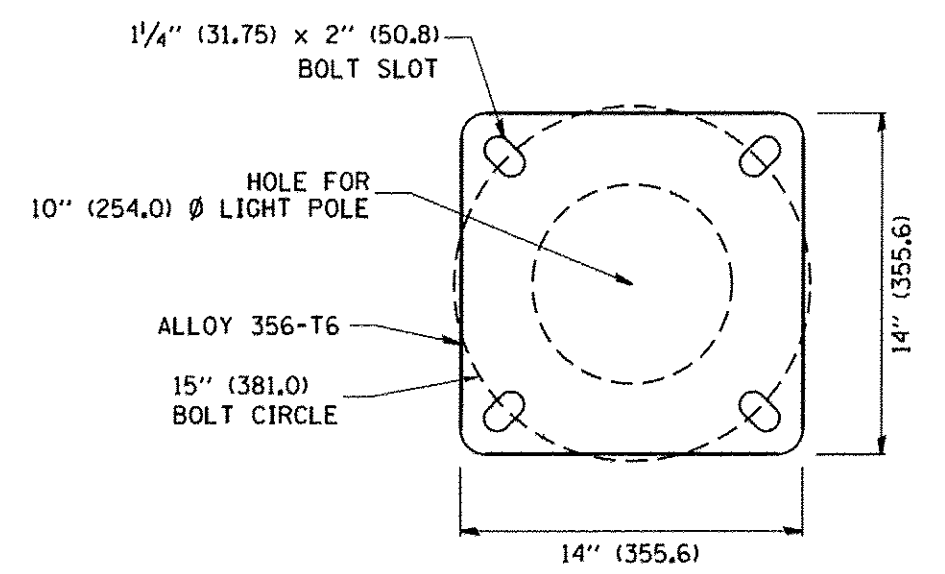
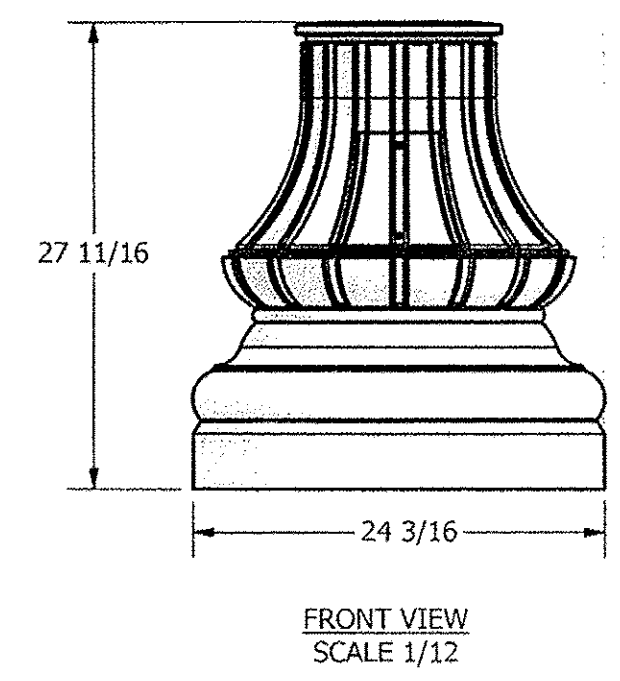
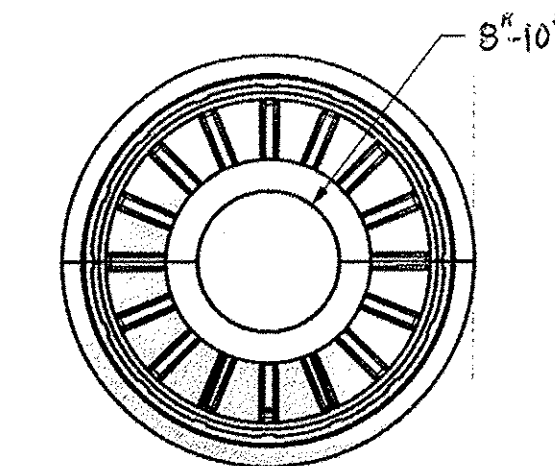


POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES

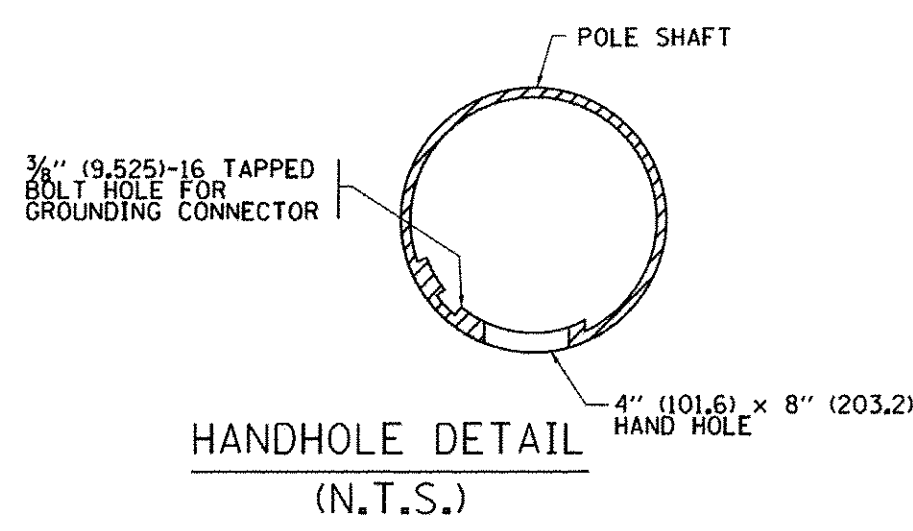


POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
  2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
  3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
  4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
  5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
  6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
  7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
  8. THE LIGHTING UNITS SHALL BE AS SHOWN AS APPROVED BY THE VILLAGE OF HANOVER PARK.
  9. BREAKAWAY COUPLINGS SHALL BE PROVIDED AND SHALL MEET CURRENT AASHTO BREAKAWAY REQUIREMENTS.
  10. EACH POLE SHALL HAVE A RECESSED FESTOON OUTLET.
  11. THE LIGHT POLE, MAST ARM, LUMINAIRE, BANNER ARMS AND CLAMPSHELL ASSEMBLY SHALL MEET AASHTO DESIGN CRITERIA.
  12. A RETENTION CHAIN SHALL BE PROVIDED FOR THE BREAKAWAY BANNER ARMS.
  13. LIGHT POLE SHALL BE CLASSIFIED BY UL, ETL OR APPROVED BY OSHA TESTING LABORATORY.



LIGHT POLE BASE PLATE DETAIL  
15 INCH (381.0) BOLT CIRCLE



REV. 8-12-16

FILE NAME = F:\Projects\2013-01 Barrington Rd - BLAN\Design\Shd\774-020\_Sht-Lt-10.dgn

**AMES Engineering, Inc.**  
CONSULTING ENGINEERS  
5413 Walnut Avenue, Ste 2  
Downers Grove, IL 60515

USER NAME = MDeStche	DESIGNED - BL	REVISED -
PLOT SCALE = 50.0000' / in.	DRAWN - RV	REVISED -
PLOT DATE = 8/15/2016	CHECKED - MB	REVISED -
	DATE - 07-22-16	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LIGHTING UNIT DETAIL  
BARRINGTON ROAD - MAPLE AVENUE TO IL 19 (IRVING PARK ROAD)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 362	SECTION 13-00062-00-SP	COUNTY COOK	TOTAL SHEETS 48	SHEET NO. 45
CONTRACT NO. 61D06			M-4003621	

LT-10