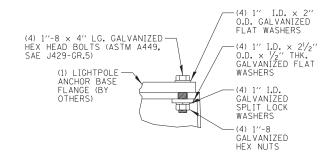
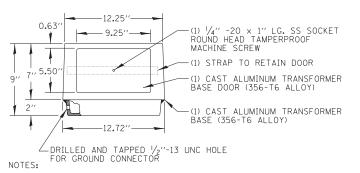


#### TRANSFORMER BASE TRANSFORMER BASE **BOTTOM VIEW TOP VIEW**



TRANSFORMER BASE TO LIGHTPOLE CONNECTION DETAIL



BEFORE INSTALLATION OF BREAKAWAY BASE, USER SHOULD CONSULT WITH AUTHORIZED DISTRIBUTOR REGARDING USERS PROPOSED APPLICATION, LOAD REQUIREMENTS AND INSTALLATION METHODS, FAILURES CAN RESULT FROM USERS MISAPPLICATION OR IMPROPER INSTALLATION. TO APPROACH OPTIMUM STATIC LOADS, USE THE LARGEST POSSIBLE BOLT CIRCLES AND USE STEEL WASHER SIZES' SPECIFIED BELOW. FOR 12"0 TOP & BOT. BOLT CIRCLES USE 234"0 x 1/2" TK. WASHER, TORQUE GROUND MOUNTING NUTS TO 150 FT.-LBS. SHIMS SHALL NOT BE USED.

2. TRANSFORMER BASES SHALL BE USED FOR POLE TYPE "A", POLES

TRANSFORMER BASE

TRANSFORMER BASE TO

FOUNDATION CONNECTION DETAIL

# GASKET

11 1/8"

-FACING AWAY FROM TRAFFIC FLOW FOR GROUND MOUNTED POLES AND FACING BRIDGE DECK ON STRUCTURE.

ALUMINUM EXTRUDED T-STOCK WITH A DRILLED & TAPPED 1/2"-13 HOLE FOR GROUND CONNECTOR, T-STOCK WELDED 1'-6" FROM BUTT & 180° FROM HANDHOLE

NOTE: NUT COVERS NOT SHOWN

SECTION B-B

 $-1\frac{1}{4}$ " ×  $1\frac{7}{8}$ " BOLT SLOT

−12″ Ø MAX. BOLT CIRCLE

−11" Ø MIN. BOLT CIRCLE

FRAME

-7½" Ø CLEAR OPENING

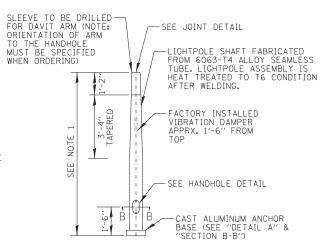
CAST ALIMINUM HANDHOLE REINFORCEMENT

(A356-T6 ALLOY)

CAST ALUMINUM HANDHOLE REINFORCEMENT FRAME (A356-T6 ALLOY) WITH A FULL CIRCUMFERENCE WELD AND A 4"x8" FLUSH FITTING ALUMINUM DOOR ATTACHED WITH (2)/4"-20 x3/4" LG. SLOTTED STEEL CORE SCREWS.

#### HANDHOLE DETAIL

- 8<sup>7</sup>/₁6 ′′ -



#### NOTES:

- 1. OVERALL POLE BASE HEIGHT IS 8'-6" FOR PROPOSED POLE TYPE "A". & 6'-6" FOR PROPOSED POLE TYPE "B".
- PROPOSED POLE TYPE "A" SHALL BE USED WITH TRANSFORMER BASES AND MOUNTED AT GRADE USING HELIX FOUNDATIONS.
- 3. SEE POLE DAVIT ARM DETAIL FOR DAVIT ARM TYPES.
- 4. BOTH LIGHT POLE TYPES COMPLETE WITH BASE, ARM, LUMINAIRE, AND ID LABEL SHALL BE PAID FOR UNDER "LIGHT POLE, SPECIAL". TRANSFORMER BASE PAID FOR SEPERATELY.

## LIGHT POLE DETAILS

# -ALUMINUM LIGHT POLE SHAFT 3/8" FILLET WELD-OUTSIDE POLE TO ANCHOR BASE $\frac{7}{32}$ " FILLET WELD BUTT OF POLE TO INSIDE OF ANCHOR BASE (4) CAST ALUMINUM NUT COVERS MOUNTED WITH 1/4"-20×1/2" LG. SLOTTED STEEL CORE NYLON SCREWS NOTE:

8" I.D. ANCHOR BASE CASTING (356-T6 ALLOY) WELDED TO THE BASE OF THE LIGHTPOLE WITH (2) FULL CIRCUMFERENCE FILLET WELDS.

#### **DETAIL A**

BOTTOM OF CURB

- TRENCH

CONDUIT

6" TO 10"

BACKFILL

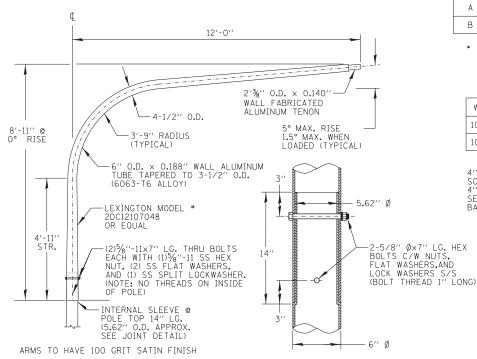
-RED WARNING

TO 5" G.S.

# TRANSFORMER BASE DETAILS

(4) 1"-8 GALVANIZED-ANCHOR BOLTS (BY OTHERS)

PROJECTION



JOINT DETAIL

### **POLE TYPES**

TYPE	* O.A. POLE HEIGHT	POLE BASE HEIGHT	DAVIT ARM	MOUNTING CONFIG	T-BASE	LUMINAIRE
Α	17'-0''	8-6′′	SINGLE	HELIX FND	YES	100 W
В	15′-0′′	6-6′′	SINGLE	HELIX FND	YES	100 W

\* INCLUDING TRANSFORMER BASE

(4) 1''-8 GALVANIZED

SPLIT LOCKWASHERS

(BY OTHERS)

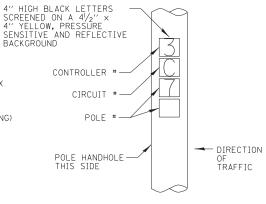
HEX NUTS (BY OTHERS)

(4) 1" I.D. GALVANIZED

-(4)  $1\frac{1}{16}$  " I.D.  $\times$   $2\frac{3}{4}$ " O.D.  $\times$   $\frac{1}{2}$ " THK. GALVANIZED FLAT WASHERS

#### **LUMINAIRE TYPES**

WATTAGE	MANUFACTURER	MODEL NO.	PHOTOMETRIC	CONTROLLER
100 WATT	GENERAL ELECTRIC 343	MDCL10S0A11FMC21	MC II	ROSEMONT "3"
100 WATT	T&B AMERICAN ELECTRIC	314-56312-DJ-00A2	MC II	ROSEMONT "3"



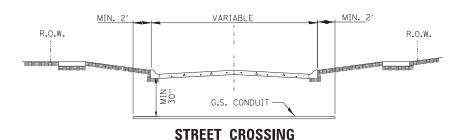
# POLE IDENTIFICATION FOR ROSEMONT POLES

# CABLE AND DUCT SIZES AS SHOWN ON LIGHTING PLANS

¢ OF TRENCH

TRENCH SECTION

# TRENCH SECTION



- ① CONDUIT SHALL BE HEAVY WALL RIGID G.S. CONDUIT.
- (2) CONDUIT SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- 3 CONDUIT SHALL BE A MINIMUM OF 30" BELOW CURB BOTTOM.

# **ELECTRIC CONDUIT UNDER PAVEMENT**

CHRISTOPHER B. BURKE ENGINEERING, LTD. 9575 W. Highs Road, Sube 600 Rosemont, Ilmole 60018 (641) 623-6500	USER NAME = adericco	DESIGNED AJD	REVISED -	
		DRAWN KWB	REVISED -	
	PLOT SCALE = 50'	CHECKED AJD	REVISED -	
	PLOT DATE = 11/13/2012	DATE - '13/2012	REVISED -	

POLE DAVIT ARM DETAILS

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SCALE:

**LIGHTING DETAILS (2 OF 6)** BALMORAL UNDERPASS 330 SHEET NO. OF SHEETS STA. TO STA.

COUNTY 0105 WRS&HB COOK 605 328 CONTRACT NO. 60G37

SINGLE DAVIT ARM