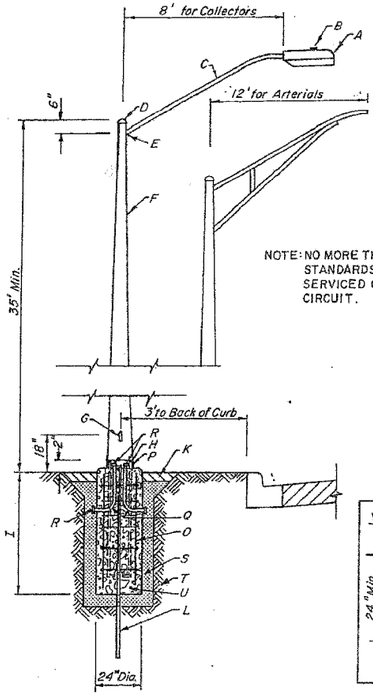
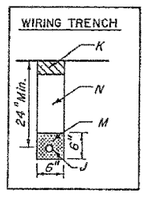
CONTRACT NO. 83986

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2993	05-00094-00-WR	DUPAGE	67	48
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROJECT NO.: M-8003 (707)



NOTE: NO MORE THAN TWO (2) STANDARDS SHALL BE SERVICED ON THE SAME CIRCUIT.



CONSTRUCTION NOTES

A. Mounted Luminaire (See Note 1)
B. Photocontrol
C. Alum. Tapered Elliptical Arm
D. Cast Top
E. Stainless Steel Mounting
F. Spun Alum. Tapered Tube (See Note 2)
G. Handhole
H. Cast Alum. Bolt Cover
I. Dependent on Soil Conditions, 6' Min.
J. Conduit (See Note 5)
K. 4" Min. Topsoil & Sod
L. 5/8" Dia. x 10'-0" Copperweld Ground Rod. Attach to Ground Wire.
M. Clean Sand or Gravel
N. Normal Backfill
O. For Re-Bar Placement and Bolt Circle, See Manufac. Spec's.
P. Anchor Bolts, See Manufac. Spec's.
Q. 2" Min. Dia. Conduit
R. Bushing
S. Gravel
T. Undisturbed Earth
U. 6-Bag Mix Concrete Foundation

GENERAL NOTES

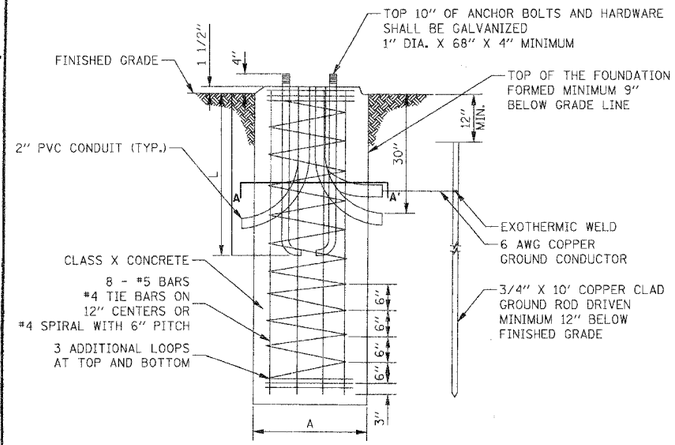
1. Luminaire shall be High Pressure Sodium Vapor, Cooper Utility Lighting, 250 W on Arterials (Cat. No. OVH 25 SC 22 D 4H - RA1014), 150 W on Collector or Industrial Streets (Cat. No. OVH 15 SR 22 D 4H - RA1014), or Approval Equal.
2. Pole shall be Hapco Cat. No. 21-867 (8' arm) and 31-871 (12' arm), or Approved Equal.
3. For Arterials, Every Other Pole shall be Opposite Side of Street.
4. Spacing shall be a Max. of 200'.
5. Circuiting shall be 120/240 Volt, Single Phase, 60 Cycle. Cable shall be 3 Wire, #6, Type UF Copper in 1 1/4" Polyethelene Unit Duct or Galvanized Conduit.
6. Service Connection shall be Requested and Paid For by Installer.
7. Case Grounding shall be Provided for Each Pole.
8. Heavy Wall, Rigid Conduit or Intermediate Metallic Conduit shall be Provided for All Street, Driveway, and Parking Lot Crossings.
9. Seperate Permits and Inspection Requests Required from Both the Engineering Dept. and Electrical Inspector.

VILLAGE OF WESTMONT

STREET LIGHT - TYPE 2
ARTERIAL, COLLECTOR, OR INDUSTRIAL

ISSUED: March 1988
REVISED: July 1997

DWG. R-14-1

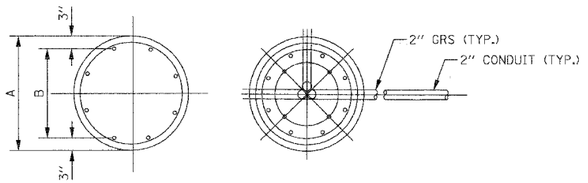


LIGHTING FOUNDATION DIMENSIONS

MOUNTING HEIGHT	A	B	L	ANCHOR BOLT DIAMETER
35'-0"	24"	18"	56"	1"

NOTES:

1. THE ENGINEER SHALL DETERMINE IF THE CLASS OF SOIL DURING THE EXCAVATION AND SELECT THE DEPTH OF THE FOUNDATION FROM THE DESIGN TABLES.
2. EXCAVATION OF THE FOUNDATION SHALL BE MADE WITH A 30" DIAMETER AUGER UNLESS A LARGER DIAMETER IS REQUIRED FOR THE ANCHOR BOLT PATTERN. THE MINIMUM DIAMETER OF THE SHAFT SHALL BE THE ANCHOR BOLT CIRCLE DIAMTER PLUS 12".
3. THE CONTRACTOR SHALL USE A NO. 3 SPIRAL CAGE WITH A 6" PITCH, OR AT HIS OPTION, MAY SUBSTITUTE WITH NO. 3 HOOPS AT 12" ON-CENTER.
4. EACH ANCHOR BOLT SHALL BE FURNISHED WITH TWO (2) FLAT WASHERS AND TWO (2) HEX NUTS. THEY SHALL BE EITHER GALVANIZED OR STAINLESS STEEL TO MATCH THE ANCHOR BOLTS.
5. RACEWAYS SHALL BE INSTALLED PARALLEL TO THE EDGE OF PAVEMENT.
6. ANCHOR BOLTS, RACEWAYS, AND REINFORCING STEEL SHALL BE SECURED IN-PLACE BEFORE THE CONCRETE IS PLACED IN THE FORM.
7. CONCRETE SHALL BE AN IDOT CLASS SI MIX, WITH A MINIMUM STRENGTH OF 3500 PSI.
8. THE CONCRETE SHALL CURE FOR A MINIMUM OF SEVEN (7) DAYS BEFORE ERECTING THE LIGHT POLE.
9. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE ERECTING THE LIGHT POLE.
10. ANCHOR BOLTS SHALL PROJECT A MINIMUM OF TWO (2) INCHES AND A MAXIMUM OF FOUR (4) INCHES ABOVE THE TOP OF THE FOUNDATION.
11. RACEWAYS SHALL PROJECT ONE (1) INCH ABOVE THE TOP OF THE FOUNDATION.
12. ALL GROUND ROD CONNECTIONS SHALL BE MADE BELOW GRADE, TWELVE (12) INCHES MINIMUM BURY, WITH EXOTHERMIC INERT GAS WELDS.



NOTE: BOLT CIRCLE AS A MANUFACTURER'S TEMPLATE

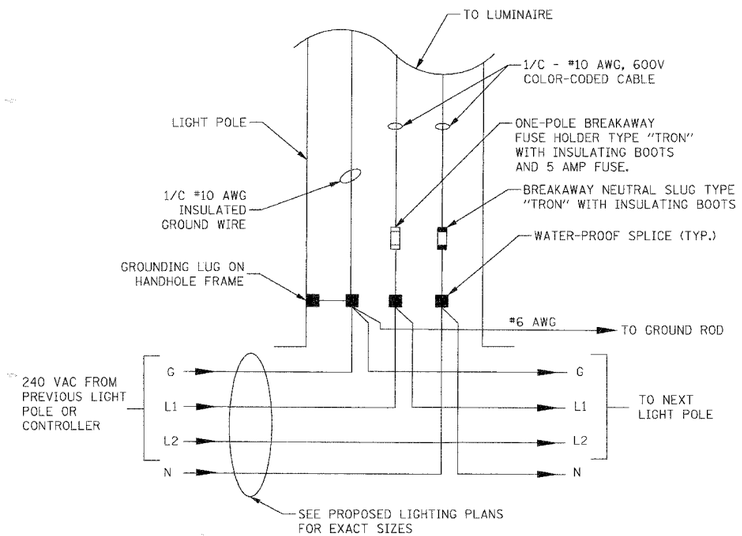
LIGHT POLE FOUNDATION DETAIL

NOT TO SCALE

	DESIGN DEPTH		REINFORCEMENT IN FOUNDATION			
TYPE OF SOIL	SINGLE ARM D	TWIN ARM D	SINGLE ARM VERT. BARS	SPIRAL	TWIN ARM VERT. BARS	SPIRAL
SOFT CLAY	13'-0"	15'-0"	4-#6X12'-6"	#3X122'	4-#6X14'-6"	#3X141'
MEDIUM CLAY	9'-6"	10'-9"	4-#6X9'-0"	#3X90'	4-#6X10'-3"	#3X100'
STIFF CLAY	8'-0"	8'-0"	4-#6X7'-6"	#3X76'	4-#6X7'-6"	#3X76'
LOOSE SAND	9'-0"	10'-0"	4-#6X8'-6"	#3X85'	4-#6X9'-6"	#3X94'
MEDIUM SAND	8'-3"	9'-0"	4-#6X7'-9"	#3X78'	4-#6X8'-6"	#3X85'
DENSE SAND	8'-0"	9'-0"	4-#6X7'-6"	#3X76'	4-#6X8'-6"	#3X85'

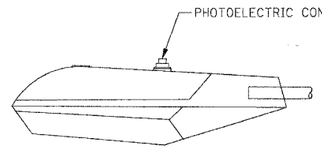
NOTES:

1. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE #3 HOOPS AT 12" ON-CENTER FOR SPIRAL CAGE.
2. THE CONTRACTOR SHALL USE THE VALUES FOR TWIN ARM INSTALLATION FOR THIS PROJECT.



LIGHT POLE HANDHOLE WIRING DETAIL

NOT TO SCALE



NOTE:

1. PHOTOELECTRIC CONTROL TO BE INCLUDED WITH EACH LUMINAIRE.

150 WATT HPS LUMINAIRE

LIGHT FIXTURE SCHEDULE

LABEL	ARRANGEMENT	LUMENS	LLF	DESCRIPTION
A1	SINGLE	16,000	0.700	OVH15S2204H-RA1014

E-08 | 8 OF 12

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF WESTMONT
WILLIAMS STREET RECONSTRUCTION

ELECTRICAL DETAILS
SHEET 1 OF 5

SCALE: NONE — DRAWN BY: FO
DATE: 09/21/07 — CHECKED BY: DEM

PLOT DATE = #DATE#
FILE NAME = #FILE#
PLOT SCALE = #SCALE#
USER NAME = #USER#

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., CADD FILE NAME, NOTE ROCK, BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE