The word “Customer” in this publication refers to the landowner or developer. Many steps will actually be completed by contractors or electricians, but the ultimate responsibility rests with the customer.

The NES handbooks listed below can be obtained by contacting NES Customer Engineering, Customer Service or Meter Departments. These handbooks may also be accessed on the Internet at www.nespower.com.

The NES Customer Guidelines for New Electric Service handbook includes guidelines for:

- **Temporary Service**: Service used while building a permanent structure, or for a period of one year or less. Some mobile homes (refer to Temporary section for details) will also fall into this category.
- **Residential Developments**: Service to new subdivisions, apartments, town homes, condominiums or mobile home parks.
- **Individual Residences**: Individual home builders and mobile home owners who are not part of a development.
- **Commercial and Industrial Services**: Guidelines for service to permanent commercial or industrial structures, or outbuildings on residential property (barns, shops, pump-houses, garages, etc.).

Other NES publications that may be useful are listed below. These publications can be obtained from any of the NES contacts listed above, or from the Metro Davidson County Codes Department. These handbooks may also be accessed on the NES Internet site at www.nespower.com.

- **NES Electric Service Policies and Procedures**: This is the governing document of policies approved by the NES Electric Power Board. If there are any discrepancies between this and the NES Customer Guidelines for New Electric Service handbook, the Policies shall be the ruling document.
These Nashville Electric Service (NES) Street Lighting Standards have been developed for use by customers to assist them with their street lighting installations on the NES system.

All the designs and requests for street lighting must be submitted in writing to and must be approved by the Customer Engineering Street Lighting Section of NES prior to any construction.

Requests for NES inspections will be denied until appropriate documentation of the lighting system is submitted, approved, and finalized by the NES street lighting department.

Please read and become familiar with these standards before beginning your project. You should follow these standards as well as any other drawings you are given for a specific project.

---

THE FOLLOWING INFORMATION ABOUT THE NES STREET LIGHTING PROGRAM CAN BE FOUND IN THIS HANDBOOK:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEP 1: INITIATE A FLAT RATE ACCOUNT</td>
<td>PAGE 4-5</td>
</tr>
<tr>
<td>STEP 2: REQUEST A STREET LIGHTING DRAWING</td>
<td>PAGE 6-8</td>
</tr>
<tr>
<td>STREET LIGHTING PROGRAM GENERAL INFORMATION AND CONSTRUCTION DETAILS</td>
<td>PAGE 9</td>
</tr>
<tr>
<td>METRO PUBLIC WORKS LIGHTING REQUIREMENTS AND CONTACT</td>
<td>PAGE 10-11</td>
</tr>
<tr>
<td>SATELLITE CITY LIGHTING REQUIREMENTS AND CONTACT</td>
<td>PAGE 12</td>
</tr>
<tr>
<td>STREET LIGHTING MATERIAL SPECIFICATIONS</td>
<td>PAGE 13-14</td>
</tr>
<tr>
<td>STREET LIGHTING DESIGN REQUIREMENTS</td>
<td>PAGE 15</td>
</tr>
<tr>
<td>STREET LIGHTING INSPECTION REQUIREMENTS</td>
<td>PAGE 16-17</td>
</tr>
<tr>
<td>STREET LIGHTING MAINTENANCE PROGRAM</td>
<td>PAGE 18</td>
</tr>
<tr>
<td>NES CONSTRUCTION DETAILS</td>
<td>PAGE 19-28</td>
</tr>
<tr>
<td>NES APPROVED RESIDENTIAL FIXTURES AND POLES</td>
<td>PAGE 29-40</td>
</tr>
<tr>
<td>NES APPROVED COMMERCIAL/DOWNTOWN DISTRICT LIGHTING ASSEMBLIES</td>
<td>PAGE 41-48</td>
</tr>
<tr>
<td>APPENDIX - SAMPLE LETTERS</td>
<td>PAGE 49</td>
</tr>
</tbody>
</table>
STEP 1 - INITIATING A FLAT RATE CONTRACT

TO INITIATE A FLAT RATE CONTRACT THE CUSTOMER MUST:

1. THE CUSTOMER MUST COMPLETE THE 'YELLOW' BOXES (IN THE LARGE RECTANGLE) AT THE TOP OF THE FLAT RATE CONTRACT FORM (SEE PAGE 5) AND SEND IT TO THE NES STREET LIGHTING DEPARTMENT. NOTE: THE CUSTOMER MUST BE THE DEVELOPER, RATHER THAN A HOME OWNERS ASSOCIATION, FOR ANY NEW CONTRACTS FOR DECORATIVE LIGHTING IN AN AREA UNDER CONSTRUCTION. CONTRACTS FOR COBRAHEADS ON DISTRIBUTION POLES CAN BE REQUESTED WITH THE CUSTOMER BEING THE HOME OWNERS ASSOCIATION.

2. CUSTOMER MUST NOTIFY NES OF HOW MANY LIGHTS WILL INITIALLY BE INSTALLED.

3. THE DISTRIBUTOR, SELLING THE DECORATIVE FIXTURES AND POLES, MUST SUBMIT ELECTRONIC CUT SHEETS AND INVOICE (IN PDF FORMAT) OF FIXTURES AND POLES BEING PURCHASED, TO NES STREET LIGHTING DEPARTMENT. THIS INFORMATION SHOULD INDICATE COST, QUANTITY, FULL CATALOG NUMBER OF THE PRODUCTS, AND THE NAME OF THE DEVELOPMENT WHERE THE FIXTURES AND POLES WILL BE INSTALLED. QUOTES WILL NOT BE ACCEPTED.

4. NES STREET LIGHTING DEPARTMENT WILL OBTAIN ACCOUNT NUMBER FROM NES BILLING DEPARTMENT.

5. NES STREET LIGHTING DEPARTMENT WILL COMPLETE THE ORIGINAL FLAT RATE CONTRACT AND MAIL IT TO THE CUSTOMER FOR THE CUSTOMER'S SIGNATURE.

6. CUSTOMER IS TO RETURN THE SIGNED, ORIGINAL CONTRACT TO THE NES STREET LIGHTING DEPARTMENT.

7. ONCE THE SIGNED, ORIGINAL, CONTRACT IS RECEIVED BY THE NES STREET LIGHTING DEPARTMENT, THE CUSTOMER MUST OBTAIN AN NES STREET LIGHTING DRAWING FOR THE PROJECT, PRIOR TO PROCEEDING WITH CONSTRUCTION.

FAX # 615-747-3968
MAILING ADDRESS:
NASHVILLE ELECTRIC SERVICE
1214 CHURCH STREET
ROOM 347-STREET LIGHTING
NASHVILLE TENNESSEE 37246

NOTE: IF A FLAT RATE ACCOUNT IS ALREADY ESTABLISHED, PROCEED TO STEP 2, OBTAINING A STREET LIGHTING DRAWING FROM NES
NASHVILLE ELECTRIC SERVICE

CONTRACT FOR FLAT RATE ELECTRIC SERVICE

Customer Name

Billing Address

Fed I.D. # or Soc. Sec. #

Customer #

Premise #

BY NES

BY NES

Telephone

CUSTOMER XYZ

hereby enters into an agreement with the Metropolitan Government of Nashville and Davidson County, Tennessee acting by and through the Electric Power Board of said Government (hereinafter called the Board) to furnish the Consumer for sole and exclusive use at SUBDIVISION XYZ all electric energy required or used by the Consumer for power and lights service, subject to the Board’s Standard Rates and Rules and Regulations as now or hereafter prescribed by the Board, for a period of 2 years from the date service first begins under this agreement and thereafter from year to year, subject to cancellation after the end of the first year by either party on 90 days written notice.

The Consumer agrees to pay monthly for all electric service furnished under this agreement in accordance with Board’s Rules and Regulations and Rate Schedule LS Section A as modified or replaced by the Electric Power Board of Distributor from time to time. Said Board’s Rules and Regulations, Terms and Conditions, and Rate Schedule are hereby made a part of this agreement.

This contract is for ___ – ___ W HPS lights with a total of ___ monthly kWh’s.

Type of Service is: 120 Volts, 2 Wire, 1 Phase.

The Consumer agrees to pay a Monthly Facility Charge of ___ to be added to the bill.

This agreement cannot be transferred or assigned by the Consumer.

The contract customer charge is $2.50 per month.

THE METROPOLITAN GOVERNMENT OF
NASHVILLE AND DAVIDSON COUNTY, TENNESSEE
ACTING BY AND THROUGH THE ELECTRIC POWER
BOARD OF SAID GOVERNMENT

BY

Authorized NES Representative

Authorized Consumer Signature

APPROVED

Supervisor

Print Name

APPROVED

Manager

Title

Date

Date

S/MISC/FORMS/FlatRateContract.doc (Legal 5-06)
STEP 2-OPTION 1

OBTAINING AN NES STREET LIGHTING DRAWING FOR:

LIGHTS IN RESIDENTIAL SUBDIVISIONS-LIGHTING TO BE MAINTAINED BY NES

YES

HAS A STREET LIGHTING FLAT RATE ACCOUNT BEEN ESTABLISHED WITH THE CUSTOMER?

NO

INITIATE A FLAT RATE CONTRACT

THE CUSTOMER IS REQUIRED TO SUBMIT THE FOLLOWING INFORMATION IN ORDER TO OBTAIN AN NES STREET LIGHTING DRAWING FOR THE PROJECT:

1. FORMAL LETTER REQUESTING LIGHTS TO BE ADDED TO THE CUSTOMER’S FLAT RATE ACCOUNT. THE ACCOUNT NUMBER AND THE QUANTITY OF FIXTURES BEING INSTALLED MUST BE INCLUDED IN THE LETTER.

(NOTE: A COMPLETED, NEW CONTRACT WILL SUFFICE AS A LETTER FOR THE INITIAL LIGHTING INSTALLATION)

(NOTE: IF THE CUSTOMER IS REQUESTING COBRAHEADS BE INSTALLED ON WOOD UTILITY POLES, THE LETTER SHOULD INDICATE THE POLE NUMBERS WHERE THE LIGHTS SHOULD BE INSTALLED)

2. PROPOSED LIGHT LOCATIONS NOTED ON SCALED PLANS. PLANS TO SHOW SIDEWALKS, EASEMENTS, FIRE HYDRANTS, RIGHT-OF-WAYS, OTHER UTILITIES AND NOTE IF THE ROADS AND ALLEYS ARE PUBLIC OR PRIVATE.

3. CONDUIT ROUTING FOR STREET LIGHTING FROM EACH LIGHT TO THE TRANSFORMER.

4. THE DISTRIBUTOR SELLING THE DECORATIVE FIXTURES AND POLES MUST SUBMIT AN ELECTRONIC COPY (IN PDF FORMAT) OF THE INVOICE AND CUT SHEET, OF THE FIXTURE AND POLE BEING PURCHASED, TO NES STREET LIGHTING DEPARTMENT. INFORMATION TO INDICATE THE COST, QUANTITY, FULL CATALOG NUMBER OF THE PRODUCTS ALONG WITH THE DEVELOPMENT WHERE THEY WILL BE INSTALLED. QUOTES WILL NOT BE ACCEPTED.

5. WRITTEN APPROVAL FROM THE LOCAL CITY OR COUNTY PUBLIC WORKS DEPARTMENT FOR LIGHTS LOCATED IN THE PUBLIC RIGHT-OF-WAY.

NOTE: LOCATIONS OF LIGHTS MUST BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL CITY OR COUNTY HAVING JURISDICTION

NOTE: LOCATIONS ALONG PRIVATE ROADS ARE NOT REQUIRED TO MEET CITY REQUIREMENTS

NES TO CREATE THE NES STREET LIGHTING DRAWING AND SEND COPY OF THE DRAWING TO THE CUSTOMER VIA USPS TO THE ACCOUNT BILLING ADDRESS

ONCE CUSTOMER RECEIVES DRAWING FROM THE STREET LIGHTING DEPARTMENT, ANY MISUNDERSTANDING OR DISCREPANCY MUST BE RESOLVED IMMEDIATELY. CONSTRUCTION MAY PROCEED AND MUST BE ACCORDING TO NES REQUIREMENTS, DRAWING, AND DETAILS

CUSTOMER TO CONTACT STREET LIGHTING SUPERVISOR FOR INSPECTIONS ACCORDING TO THE STREET LIGHTING HANDBOOK

NES WILL ENERGIZE FIXTURES ONCE ALL NES REQUIREMENTS HAVE BEEN MET

NOTE:

STREET LIGHTING CONDUIT LOCATIONS SHOWN ON NES DISTRIBUTION PLANS ARE NOT CONSIDERED FINAL LIGHTING LOCATIONS. IT IS THE CUSTOMER’S RESPONSIBILITY TO DETERMINE THE FINAL LIGHT LOCATIONS AND COORDINATE THOSE LOCATIONS WITH THE NES STREET LIGHTING DEPARTMENT. IN ORDER TO RECEIVE AN NES STREET LIGHTING INSPECTION, THE NES STREET LIGHTING CREWS MUST HAVE A DRAWING AND WORK REQUEST FROM THE NES STREET LIGHTING DEPARTMENT IN ENGINEERING
STEP 2-OPTION 2

OBTAINING AN NES STREET LIGHTING DRAWING FOR:

LIGHTS IN RESIDENTIAL SUBDIVISIONS-LIGHTING NOT MAINTAINED BY NES

YES

HAS A STREET LIGHTING FLAT RATE ACCOUNT BEEN ESTABLISHED WITH THE CUSTOMER?

NO

INITIATE A FLAT RATE CONTRACT

YES

THE CUSTOMER IS REQUIRED TO SUBMIT THE FOLLOWING INFORMATION IN ORDER TO OBTAIN AN NES STREET LIGHTING DRAWING FOR THE PROJECT:

1. FORMAL LETTER REQUESTING LIGHTS TO BE ADDED TO THE CUSTOMER’S FLAT ACCOUNT. THE ACCOUNT NUMBER AND THE QUANTITY OF FIXTURES BEING INSTALLED MUST BE INCLUDED IN THE LETTER.

(NOTE: A COMPLETED, NEW CONTRACT WILL SUFFICE AS A LETTER FOR THE INITIAL LIGHTING INSTALLATION)

2. PROPOSED LOCATIONS OF DISCONNECT SWITCHES AND LIGHT FIXTURES NOTED ON SCALED PLANS. PLANS TO SHOW SIDEWALKS, EASEMENTS, RIGHT-OF-WAYS, FIRE HYDRANTS, OTHER UTILITIES AND NOTE IF THE ROADS AND ALLEYS ARE PUBLIC OR PRIVATE.

3. CONDUIT ROUTING FOR STREET LIGHTING FROM EACH LIGHT TO THE TRANSFORMER.

4. THE DISTRIBUTOR SELLING THE DECORATIVE FIXTURES AND POLES MUST SUBMIT AN ELECTRONIC COPY (IN PDF FORMAT) OF THE CUT SHEET, FOR THE FIXTURE TO NES STREET LIGHTING DEPARTMENT. CUT SHEET TO SHOW THE THE CATALOG NUMBER AND WATTAGE OF THE FIXTURES, ALONG WITH THE DEVELOPMENT WHERE THEY WILL BE INSTALLED.

5. WRITTEN APPROVAL FROM THE LOCAL CITY OR COUNTY PUBLIC WORKS DEPARTMENT FOR LIGHTS LOCATED IN THE PUBLIC RIGHT-OF-WAY.

NOTE: LOCATIONS OF LIGHTS MUST BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL CITY OR COUNTY HAVING JURISDICTION
NOTE: LOCATIONS OF LIGHTS ALONG PRIVATE ROADS ARE NOT REQUIRED TO MEET CITY/COUNTY REQUIREMENTS
NOTE: LIGHTS NOT MAINTAINED BY NES MAY NOT BE LOCATED ON PUBLIC ROAD RIGHT-OF-WAY

NES TO CREATE THE LIGHTING DRAWING AND SEND COPY OF THE DRAWING TO THE CUSTOMER VIA USPS TO THE ACCOUNT BILLING ADDRESS

ONCE CUSTOMER RECEIVES DRAWING FROM THE STREET LIGHTING DEPARTMENT, ANY MISUNDERSTANDING OR DISCREPANCY MUST BE RESOLVED IMMEDIATELY. CONSTRUCTION MAY PROCEED AND MUST BE ACCORDING TO NES REQUIREMENTS AND DETAILS

CUSTOMER TO CONTACT LOCAL CODES DEPARTMENT FOR INSPECTION. ONCE NES RECEIVES A RELEASE FROM THE CODES DEPARTMENT, THE FIXTURES CAN BE ENERGIZED

NOTE:
LIGHTING CONDUIT LOCATIONS SHOWN ON NES DISTRIBUTION PLANS ARE NOT CONSIDERED FINAL LIGHTING LOCATIONS. IT IS THE CUSTOMER’S RESPONSIBILITY TO DETERMINE THE FINAL LIGHT LOCATIONS AND COORDINATE THOSE LOCATIONS WITH THE NES STREET LIGHTING DEPARTMENT. IN ORDER TO ENERGIZE THE FIXTURES, THE NES STREET LIGHTING CREWS MUST HAVE A DRAWING AND WORK REQUEST FROM THE STREET LIGHTING DEPARTMENT IN ENGINEERING
STEP 2-OPTION 3

OBTAINING AN NES STREET LIGHTING DRAWING FOR:

STREET LIGHTS IN COMMERCIAL AREA, LOCATED ON CITY RIGHT-OF-WAY, LIGHTING MAINTAINED BY NES FOR A CITY (NOT INCLUDING INTERSTATE LIGHTING)

- WILL LIGHTING BE INSTALLED BY A CONTRACTOR AT THE REQUIREMENT OF A CITY AS A PART OF A COMMERCIAL DEVELOPMENT OR PROJECT OTHER THAN A RESIDENTIAL SUBDIVISION?
  - NO
  - YES

  NO
  - INITIATE A FLAT RATE CONTRACT

  YES
  - NES TO CREATE THE STREET LIGHTING DRAWING FOR THE JOB AND SEND COPY OF THE DRAWING TO THE CUSTOMER VIA USPS TO THE ACCOUNT BILLING ADDRESS OR THE CUSTOMER'S BUSINESS ADDRESS

  - ONCE CUSTOMER RECEIVES DRAWING FROM THE STREET LIGHTING DRAWING, ANY MISUNDERSTANDING OR DISCREPANCY MUST BE RESOLVED IMMEDIATELY. CONSTRUCTION MAY PROCEED AND MUST BE ACCORDING TO NES REQUIREMENTS AND DETAILS

  - CUSTOMER TO CONTACT STREET LIGHTING SUPERVISOR FOR INSPECTIONS ACCORDING TO THE STREET LIGHTING HANDBOOK

  - NES WILL ENERGIZE FIXTURES ONCE ALL NES REQUIREMENTS HAVE BEEN MET

NOTE:
- STREET LIGHTING CONDUIT LOCATIONS SHOWN ON NES DISTRIBUTION PLANS ARE NOT CONSIDERED FINAL LIGHTING LOCATIONS. IT IS THE CUSTOMER'S RESPONSIBILITY TO DETERMINE THE FINAL LIGHT LOCATIONS AND COORDINATE THOSE LOCATIONS WITH THE NES STREET LIGHTING DEPARTMENT. IN ORDER TO RECEIVE AN NES INSPECTION, THE NES STREET LIGHTING CREWS MUST HAVE A DRAWING AND WORK REQUEST FROM THE NES STREET LIGHTING DEPARTMENT IN ENGINEERING

THE CUSTOMER IS TO SUBMIT THE FOLLOWING INFORMATION TO OBTAIN AN NES STREET LIGHTING DRAWING FOR THE PROJECT:

1. STREET LIGHTING PHOTOMETRIC CALCULATIONS, SHOWING COMPLIANCE WITH IES-RP-8-00 TABLE 2, WITH THE FOLLOWING INFORMATION ON THE PHOTOMETRIC PLAN:
   - A. FOOTCANDLE LEVELS ON A 10 FT X 10 FT GRID FROM FACE OF CURB TO FACE OF CURB.
   - B. STATISTICS: UNIFORMITY RATIO, AVG, MIN., AND MAX. FOOTCANDLE LEVELS
   - C. INDICATE ON PLAN THE ROADWAY AND PEDESTRIAN CLASSIFICATIONS THAT THE LAYOUT MEETS IN IES RP-8-00, TABLE 2.
   - D. INDICATE ON PLAN THE ROADWAY AND PEDESTRIAN CLASSIFICATIONS THAT IS REQUIRED BY THE CITY FOR THE LAYOUT. THE CUSTOMER MUST CONFIRM THIS WITH THE CITY.
   - E. FIXTURE INFORMATION INCLUDING MOUNTING HEIGHT, PROPOSED MATERIAL LIST (INCLUDING POLE TYPE), IES FILE USED, LAMP LUMEN AND DEPRECIATION VALUES.

2. SCALED PLANS OF THE CONSTRUCTION PROJECT SHOWING SCOPE OF WORK, STREET NAMES, NORTH ARROW, PROPOSED LIGHTING LOCATIONS, SIDEWALKS, EASEMENTS, RIGHT-OF-WAYS, UTILITIES, FIRE HYDRANTS, AND CLEARANCES BETWEEN LIGHT FIXTURES AND OTHER ITEMS ON SITE (INCLUDING UTILITY VAULTS AND MANHOLES). EXISTING LIGHT FIXTURES (THEIR LOCATIONS, WATTAGES, AND POLE NUMBERS) WHICH ARE TO BE REMOVED AS A PART OF THE PROJECT, SHOULD ALSO BE INDICATED. POLE NUMBERS ON OTHER EXISTING UTILITY POLES SHOULD ALSO BE INCLUDED ON THE DRAWING.

3. ONCE THE LAYOUT IS APPROVED BY THE CITY, IT IS THE CUSTOMER'S RESPONSIBILITY TO CONTACT THE CITY AND REQUEST A LETTER ACCEPTING RESPONSIBILITY FOR THE INSTALLATION AND/OR REMOVAL. THE LETTER IS TO BE SENT TO THE STREET LIGHTING DEPARTMENT AT NES. THE CUSTOMER MUST NOTIFY THE CITY OF THE QUANTITIES AND WATTAGES OF ALL ADDED AND REMOVED FIXTURES.

4. ONCE THE LETTER IS RECEIVED BY NES, NES WILL DETERMINE THE 120 VOLT (OR 240 VOLT, IF REQUIRED BY NES) POWER SOURCE LOCATION AND CONTROL METHOD FOR THE LIGHTING AND FORWARD THAT INFORMATION TO THE CUSTOMER.

5. THE CUSTOMER SHALL CALCULATE VOLTAGE DROP, SIZE THE CONDUCTORS FOR THE PROJECT (USING NES MATERIAL LISTS), AND FORWARD FINAL LIGHTING PLAN WITH WIRE SIZES TO THE NES STREET LIGHTING DEPARTMENT. PLAN TO BE IN AUTOCAD 2008 FORMAT. A FULL SIZED, SCALED HARD COPY SHOULD ALSO BE MAILED TO THE STREET LIGHTING DEPARTMENT.


7. THE DISTRIBUTOR SELLING THE DECORATIVE FIXTURES AND POLES MUST SUBMIT AN ELECTRONIC COPY (IN PDF FORMAT) OF THE CUT SHEETS OF THE FIXTURE(S) AND POLE(S) BEING PURCHASED TO NES STREET LIGHTING DEPARTMENT. PLAN TO BE IN AUTOCAD 2008 FORMAT. A FULL SIZED, SCALED HARD COPY SHOULD ALSO BE MAILED TO THE STREET LIGHTING DEPARTMENT.

8. NES STREET LIGHTING DEPARTMENT WILL PROVIDE NES STREET LIGHTING CREWS WITH A SEPARATE NES STREET LIGHTING DRAWING FOR THE PROJECT.

NOTE:
- LOCATIONS OF LIGHTS MUST BE IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL CITY OR COUNTY HAVING JURISDICTION
- LOCATIONS OF LIGHTS ALONG PRIVATE ROADS ARE NOT REQUIRED TO MEET CITY/COUNTY REQUIREMENTS
- LIGHTS NOT MAINTAINED BY NES MAY NOT BE LOCATED ON PUBLIC ROAD RIGHT-OF-WAY
# NES STREET LIGHTING PROGRAM

## GENERAL INFORMATION

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>METRO PUBLIC WORKS LIGHTING REQUIREMENTS AND CONTACT</td>
<td>PAGE 10-11</td>
</tr>
<tr>
<td>SATELLITE CITY LIGHTING REQUIREMENTS AND CONTACTS</td>
<td>PAGE 12</td>
</tr>
<tr>
<td>STREET LIGHTING MATERIAL SPECIFICATIONS</td>
<td>PAGE 13-14</td>
</tr>
<tr>
<td>STREET LIGHTING DESIGN REQUIREMENTS</td>
<td>PAGE 15</td>
</tr>
<tr>
<td>STREET LIGHTING INSPECTION REQUIREMENTS</td>
<td>PAGE 16-17</td>
</tr>
<tr>
<td>STREET LIGHTING MAINTENANCE PROGRAM</td>
<td>PAGE 18</td>
</tr>
<tr>
<td>NES CONSTRUCTION DETAILS</td>
<td>PAGE 19-28</td>
</tr>
<tr>
<td>NES APPROVED RESIDENTIAL FIXTURES AND POLES</td>
<td>PAGE 29-40</td>
</tr>
<tr>
<td>NES APPROVED COMMERCIAL/DOWNTOWN DISTRICT LIGHTING ASSEMBLIES</td>
<td>PAGE 41-48</td>
</tr>
</tbody>
</table>
NASHVILLE/METRO DAVIDSON COUNTY STREET
LIGHTING POLICY

Metropolitan Department of Public Works Interim Street Lighting Policy

Purpose: This interim Street Lighting Policy is to serve as a pilot to assist in determining the appropriate level of lighting and the most efficient method for providing Street Lighting on Metro roadways.

All street lighting placed upon the public rights of way of the Metropolitan Government of Nashville and Davidson County (Metro) shall be Nashville Electric Service (NES) approved equipment and meeting the standards and specifications of NES.

All street lighting placed upon major arterials, connector, and collector routes as identified by Metro and lighting placed upon roadways within the limits of the Central Business Core as identified by the Metro Department of Public Works shall meet the requirements and recommendations of IES.

All street lighting placed upon roadways of Metro not covered by the above shall meet the following requirements:

- All lighting equipment and installation of same shall meet the standards and specifications of NES.
- Lights shall be placed at each intersection.
- Lights shall be placed within each cul-de-sac.
- Lights shall be spaced at intervals not to exceed 400 feet.

Note: Above lighting spacing requirements are based on installation upon two lane roadway (30 ft. width) and manufactures recommended NES approved mounting heights. Installation upon wider roadways or mounting heights not meeting the recommendation of manufacturer/NES will require a NES approved lighting plan.

Special Conditions/Requirements pertaining to Metro Subdivision Regulations: relative to underground utility requirements:

Developments with the Metro Urban Services District - All new developments within the Urban Services District shall meet the above requirements.

Developments within the Metro General Services District – All new developments within the General Services District in which the developer chooses to provide street lighting shall meet the above requirements and all cost and ongoing expenses shall be the responsibility of the developer and/or neighborhood association.

All developments within the General Services District in which the developer chooses not to provide street lighting shall include sufficient street lighting infrastructure as part of the underground electrical system. Said infrastructure shall consist of infrastructure required to facilitate future addition of street lighting to adhere to above Street Lighting Policy and as determined and approved by NES, and shall be at the expense of the developer.

METRO PUBLIC WORKS CONTACT:
MR. RICK CAWOOD AT 615-533-0499
NOTES

1. 'LIGHT ZONE' INDICATES SPACE WHERE LIGHTING IS REQUIRED.
2. 'NO LIGHT ZONE' INDICATES SPACE WHERE LIGHTING IS NOT ALLOWED.
3. INTERSECTIONS OF PUBLIC ROADS TO PRIVATE ALLEYS AND PRIVATE ROADS ARE CONSIDERED "NO LIGHT ZONES".
4. INTERSECTION LIGHT ZONE. AN INTERSECTION IS CONSIDERED TO BE AN INTERSECTION AT MULTIPLE METRO PUBLIC ROAD(S) OR A METRO PUBLIC ROAD AND A METRO PUBLIC ALLEY.
CITY OF BELLE MEADE, TN

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

1. LOCATE A FIXTURE AT EACH INTERSECTION
2. LOCATE A FIXTURE IN EACH CUL-DE-SAC
3. LOCATE A FIXTURE EVERY 350-400 FEET ALONG ROADWAY
4. FIXTURES MUST BE MAINTAINED BY NES.

CONTACT:
MR. GEORGE BARTLETT AT 615-297-6041

NOTE: LIGHT LOCATIONS IN BELLE MEADE ARE APPROVED DURING THE PERMITTING PROCESS, DEVELOPER IS REQUIRED TO SUBMIT PLANS APPROVED BY THE CITY TO NES STREET LIGHTING DEPARTMENT.

CITY OF BRENTWOOD, TN

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

1. LOCATE A FIXTURE AT EACH INTERSECTION
2. LOCATE A FIXTURE IN EACH CUL-DE-SAC
3. LOCATE A FIXTURE EVERY 350-400 FEET ALONG ROADWAY
4. FIXTURES MUST BE MAINTAINED BY NES.

CONTACT:
MR. STEVE FOSTER - 615-371-0080

NOTE: LIGHT LOCATIONS IN BRENTWOOD ARE APPROVED DURING THE PERMITTING PROCESS, DEVELOPER IS REQUIRED TO SUBMIT PLANS APPROVED BY THE CITY TO THE NES STREET LIGHTING DEPARTMENT.

CITY OF GOODLETTSVILLE, TN

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

1. LOCATE A FIXTURE AT EACH INTERSECTION
2. LOCATE A FIXTURE IN CUL-DE-SACS WHICH ARE 200 FT. IN LENGTH OR GREATER
3. UPON APPROVAL FROM THE CITY OF GOODLETTSVILLE, LOCATE A FIXTURE AT HAZARDOUS CURVES OR THOSE LOCATIONS WITH A HIGH ACCIDENT RATE.

CONTACT:
MR. BILL BRASIER AT 615-859-2740

NOTE: LIGHT LOCATIONS IN GOODLETTSVILLE ARE APPROVED DURING THE PERMITTING PROCESS, DEVELOPER IS REQUIRED TO SUBMIT PLANS APPROVED BY THE CITY TO NES STREET LIGHTING DEPARTMENT.

CITY OF HENDERSONVILLE, TN

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

1. LOCATE A FIXTURE AT EACH INTERSECTION
2. LOCATE A FIXTURE IN EACH CUL-DE-SAC

CONTACT:
MR. GERALD HORTON, MR. PAUL DURHAM, OR MR. DUANE ALLEN AT 615-822-1016

NOTE: LIGHT LOCATIONS IN HENDERSONVILLE ARE APPROVED DURING THE PERMITTING PROCESS, DEVELOPER IS REQUIRED TO SUBMIT PLANS APPROVED BY THE CITY TO THE NES STREET LIGHTING DEPARTMENT.

CITY OF LAVERGNE, TN

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

CONTACT:
MR. GARY RIDDLE AT 615-793-9891

CITY OF OAK HILL

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

CONTACT:
DR. BILL KRAUS AT 615-371-8291

OLD HICKORY UTILITY DISTRICT

LOCATIONS OF LIGHTING FIXTURES IN RESIDENTIAL SUBDIVISIONS:

CONTACT:
MR. EDDIE PARTLOW AT 615-847-2043
# MATERIALS REQUIRED FOR NES MAINTAINED LIGHTING SYSTEMS

<table>
<thead>
<tr>
<th>MATERIAL TYPE</th>
<th>SPECIFIC PRODUCT ALLOWED</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNDERGROUND CONDUIT</td>
<td>2” SCHEDULE 40 PVC CONDUIT THROUGHOUT</td>
</tr>
<tr>
<td>CONDUIT ELBOWS-MISCELLANEOUS LOCATIONS</td>
<td>2” SCHEDULE 40 PVC WITH 24” RADIUS.</td>
</tr>
<tr>
<td>CONDUIT ELBOWS-AT RISER POLES</td>
<td>2” SCHEDULE 80 PVC WITH 24” RADIUS.</td>
</tr>
<tr>
<td>EXPOSED CONDUIT AT UTILITY RISER POLE</td>
<td>2” RIGID GALVANIZED STEEL FROM END OF SCHEDULE 80 PVC RADIUS AND CONTINUING UP FIRST 10 FT. OF POLE ABOVE FINISHED GRADE</td>
</tr>
<tr>
<td>DECORATIVE LUMINAIRES</td>
<td>FROM NES APPROVED FIXTURE SELECTION</td>
</tr>
<tr>
<td>DECORATIVE POLES</td>
<td>FROM NES APPROVED POLE SELECTION</td>
</tr>
<tr>
<td>LAMPS</td>
<td>STANDARD HIGH PRESSURE SODIUM WITH MOGUL BASE.</td>
</tr>
<tr>
<td></td>
<td>OTHER WATTAGES AND COLOR TEMPERATURES ONLY AS IDENTIFIED FOR SPECIFIC FIXTURES IN NES FIXTURE SELECTION</td>
</tr>
<tr>
<td>CONDUCTOR TYPE</td>
<td>NEMA LISTED, USE TYPE 2, STRANDED COPPER (7S), 600 VOLT, RATED FOR 90 DEG C, WET AND DRY APPLICATION.</td>
</tr>
<tr>
<td></td>
<td>CONDUCTOR SIZES TO BE #12 (#12 FOR USE IN RESIDENTIAL SUBDIVISIONS ONLY), #6, OR #4 AWG AS NECESSARY FOR VOLTAGE DROP.</td>
</tr>
<tr>
<td></td>
<td>CONDUCTOR COLOR CODE TO BE: LIGHTING PHASE CONDUCTOR-BLACK</td>
</tr>
<tr>
<td></td>
<td>SPARE PHASE CONDUCTOR-RED</td>
</tr>
<tr>
<td></td>
<td>RECEPTACLE PHASE CONDUCTOR-BLUE (ONLY INSTALLED ON APPROVAL BY NES)</td>
</tr>
<tr>
<td></td>
<td>FULL SIZED NEUTRAL-WHITE</td>
</tr>
<tr>
<td></td>
<td>GROUND-GREEN</td>
</tr>
<tr>
<td>WIRE CONNECTORS</td>
<td>MINIMUM #6 COPPER, SOFT DRAWN, BARE</td>
</tr>
<tr>
<td>POLE BASE FUSES AND FUSE BLOCKS</td>
<td>FURNISHED BY NES, INSTALLED BY CUSTOMER</td>
</tr>
<tr>
<td>PULLBOXES</td>
<td>CDR #PA12-1324-18*-0353</td>
</tr>
<tr>
<td>PHOTOCELLS</td>
<td>DTL #DP124-1.5-1704</td>
</tr>
<tr>
<td>WARNING TAPE</td>
<td>FURNISHED BY NES, INSTALLED BY CONTRACTOR</td>
</tr>
</tbody>
</table>
### MATERIALS REQUIRED FOR LIGHTING SYSTEMS NOT MAINTAINED BY NES

<table>
<thead>
<tr>
<th>MATERIAL TYPE</th>
<th>SPECIFIC PRODUCT ALLOWED ON THE LOAD SIDE OF THE DISCONNECT SWITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONDUIT</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>CONDUIT ELBOWS</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>LUMINAIRES</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>POLES</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>LAMPS</td>
<td>HIGH PRESSURE SODIUM STANDARD WATTAGES OF 100, 150, 250, AND 400. OTHER WATTAGES AND LAMP TYPES BY APPROVAL OF NES PRIOR TO CONSTRUCTION</td>
</tr>
<tr>
<td>CONDUCTOR TYPE</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>WIRE CONNECTORS</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>POLE BASE FUSES AND FUSE BLOCKS</td>
<td>FURNISHED AND INSTALLED BY CUSTOMER</td>
</tr>
<tr>
<td>PULLBOXES</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>PHOTOCELLS</td>
<td>DTL #DP124-1.5-1704 OR BUTTON TYPE PHOTOCELL LOCATED IN FIXTURE</td>
</tr>
<tr>
<td>WARNING TAPE</td>
<td>SELECTED BY CUSTOMER</td>
</tr>
<tr>
<td>DISCONNECTING MEANS</td>
<td>SERVICE ENTRANCE RATED, NEMA 3R, UL LISTED, ENCLOSED CIRCUIT BREAKER, SIZED PER NEC ACCORDING TO THE LOAD SERVED</td>
</tr>
</tbody>
</table>

**NOTE:** ALL PRODUCTS INSTALLED BETWEEN THE POWER SOURCE AND THE DISCONNECT SWITCH MUST CONFORM TO THE NES MAINTAINED MATERIALS LIST ON PAGE 12
### DESIGN REQUIREMENTS FOR LIGHTING SYSTEMS

<table>
<thead>
<tr>
<th>DESIGN CRITERIA</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE CODES</td>
<td>LOCALLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE</td>
</tr>
<tr>
<td>AMPACITY</td>
<td>SIZED PER CODE ACCORDING TO THE LOAD SERVED</td>
</tr>
<tr>
<td>VOLTAGE DROP</td>
<td>MAXIMUM 5% FROM THE POWER SUPPLY TO THE POINT OF EQUIPMENT UTILIZATION. VOLTAGE DROP AND CONDUCTOR SIZES TO BE DETERMINED BY THE CUSTOMER’S CONTRACTOR OR ENGINEER</td>
</tr>
<tr>
<td>CLEARANCES (INCLUDING PLANTS)</td>
<td>NESC AND NEC CODE CLEARANCES ARE REQUIRED</td>
</tr>
<tr>
<td></td>
<td>10 FT. CLEAR TO ALL FIRE HYDRANTS OR OTHER GROUNDED OBJECTS</td>
</tr>
<tr>
<td></td>
<td>6 FT CLEAR TO ALL PORTIONS OF ALL NES UNDERGROUND VAULT, MANHOLE, AND HANDHOLE ENTRANCES</td>
</tr>
<tr>
<td></td>
<td>3 FT FROM BACK AND SIDES, NON-ACCESSIBLE SIDES, OF ALL ABOVE GROUND NES EQUIPMENT PADS</td>
</tr>
<tr>
<td></td>
<td>6 FT FROM FRONT (ACCESSIBLE SIDE) OF ALL ABOVE GROUND NES EQUIPMENT. DO NOT INSTALL ANY ITEM DIRECTLY IN FRONT ANY ABOVE GROUND EQUIPMENT</td>
</tr>
<tr>
<td></td>
<td>MINIMUM 12&quot; HORIZONTAL AND VERTICAL CLEARANCE FROM ALL OTHER UNDERGROUND UTILITIES</td>
</tr>
<tr>
<td>LANDSCAPE MATERIALS</td>
<td>LANDSCAPING MATERIALS WILL NOT BE ALLOWED TO COVER NES EQUIPMENT OR COME IN CONTACT WITH THE SIDES OF NES EQUIPMENT</td>
</tr>
<tr>
<td>LOCATIONS</td>
<td>MAXIMUM 15 FT. FROM ROAD RIGHT-OF-WAY AND ACCESSIBLE BY NES TRUCKS ON PAVED SURFACES</td>
</tr>
<tr>
<td></td>
<td>IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS</td>
</tr>
<tr>
<td></td>
<td>IT IS THE CUSTOMER’S RESPONSIBILITY TO COORDINATE THE LOCATIONS OF ALL LIGHTS WITH ALL OTHER TRADES AND MAINTAIN NES AND OTHER REQUIRED CLEARANCES</td>
</tr>
</tbody>
</table>

**CLEARANCES NOTE:**

PROPER ACCESS FOR INSPECTION, MAINTENANCE AND REPLACEMENT OF NES EQUIPMENT MUST BE MAINTAINED. ANY OBJECT NOT IN CONFORMITY WITH THESE RESTRICTIONS MUST BE PROMPTLY REMOVED OR PUT INTO COMPLIANCE UPON RECEIPT OF WRITTEN NOTICE FROM NASHVILLE ELECTRIC SERVICE. UPON FAILURE OR REFUSAL OF THE RESPONSIBLE PARTY TO DO SO, NASHVILLE ELECTRIC SERVICE MAY REMOVE SUCH OBJECT OR PUT IT INTO COMPLIANCE AT OWNER’S EXPENSE AND WITHOUT INCURRING ANY LIABILITY ON THE PART OF NASHVILLE ELECTRIC SERVICE.
**INSPECTIONS FOR NES MAINTAINED LIGHTING SYSTEMS**

IT IS THE CUSTOMER’S RESPONSIBILITY TO CONTACT NES AND SCHEDULE ALL NES REQUIRED INSPECTIONS. NES MUST INSPECT ANY LIGHTING SYSTEM THAT WILL BE MAINTAINED BY NES. IF THE CUSTOMER FAILS TO HAVE NES INSPECT THE CONSTRUCTION PHASE OF THE LIGHTING SYSTEM, THE CUSTOMER WILL BE REQUIRED TO TAKE ANY NECESSARY ACTION TO FACILITATE THE INSPECTIONS LISTED BELOW. NES REQUESTS A MINIMUM OF TWO BUSINESS DAYS ADVANCE NOTICE FOR ALL INSPECTIONS.

THE LOCAL CODES DEPARTMENT INSPECTS ANY LIGHTING SYSTEM THAT WILL NOT BE MAINTAINED BY NES. NES REQUIRE A CODES DEPARTMENT RELEASE PRIOR TO ENERGIZING ANY LIGHTING SYSTEM THAT NES DID NOT INSPECT.

REFER TO THE INSTALLATION DETAILS SECTION FOR CONSTRUCTION REQUIREMENTS IN ORDER TO SATISFY THE INSPECTIONS. THE FOLLOWING INSPECTIONS SHALL BE PERFORMED BY THE NES STREET LIGHTING SUPERVISOR:

### NES INSPECTION OF CONDUIT AND PULLBOX INSTALLATION

<table>
<thead>
<tr>
<th>WHEN TO CALL</th>
<th>PRIOR TO BACKFILLING DITCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN. 2 BUSINESS DAYS PRIOR TO DATE OF INSPECTION</td>
<td></td>
</tr>
</tbody>
</table>

**NES INSPECTION REQUIREMENTS**

1. ALL WORK TO BE DONE ACCORDING TO THE APPLICABLE NES CONSTRUCTION DETAILS AND DRAWINGS.
2. EXCAVATE DITCH AND/OR PULLBOX HOLE TO THE PROPER DEPTH
3. CALL FOR INSPECTION
4. ONCE APPROVED BY THE STREET LIGHTING SUPERVISOR, INSTALL GROUND WIRE, FIRST LAYER OF GRAVEL, CONDUIT AND/OR PULLBOX AS DIRECTED BY THE STREET LIGHTING SUPERVISOR
5. ONCE APPROVED BY THE STREET LIGHTING SUPERVISOR, COMPLETE PROPER BACKFILL AND WARNING TAPE INSTALLATION

### NES INSPECTION OF FOOTING INSTALLATION

<table>
<thead>
<tr>
<th>WHEN TO CALL</th>
<th>PRIOR TO POURING CONCRETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN. 2 BUSINESS DAYS PRIOR TO DATE OF INSPECTION</td>
<td></td>
</tr>
</tbody>
</table>

**NES INSPECTION REQUIREMENTS**

1. ALL WORK TO BE DONE ACCORDING TO THE APPROPRIATE NES CONSTRUCTION DETAILS AND DRAWINGS.
2. EXCAVATE FOOTING HOLE TO PROPER DEPTH
3. CONSTRUCT FOOTING ACCORDING TO APPROPRIATE NES DETAIL, INCLUDING GROUNDING
4. CALL FOR INSPECTION
5. ONCE APPROVED BY THE STREET LIGHTING SUPERVISOR, POUR CONCRETE

### WHO TO CALL FOR NES INSPECTION

<table>
<thead>
<tr>
<th>NES STREET LIGHTING SUPERVISOR</th>
<th>WEST: 642-8574</th>
</tr>
</thead>
<tbody>
<tr>
<td>DONELSON: 642-8335</td>
<td>NETWORK: 747-3012</td>
</tr>
</tbody>
</table>

CALL ACCORDING TO ZIP CODE OF PROJECT, SEE ZIP CODE LIST ON PAGE 16
### Division of Work Areas at Donelson and West Service Centers

<table>
<thead>
<tr>
<th>Donelson Center Zip Codes</th>
<th>West Center Zip Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>37013 Antioch</td>
<td>37015 Ashland City</td>
</tr>
<tr>
<td>37014 Arrington</td>
<td>37027 Brentwood</td>
</tr>
<tr>
<td>37066 Gallatin</td>
<td>37064 Franklin</td>
</tr>
<tr>
<td>37075 Hendersonville</td>
<td>37059 Franklin</td>
</tr>
<tr>
<td>37076 Hermitage</td>
<td>37072 Goodlettsville</td>
</tr>
<tr>
<td>37085 La Vergne</td>
<td>37073 Greenbrier</td>
</tr>
<tr>
<td>37115 Madison</td>
<td>37080 Joeflin</td>
</tr>
<tr>
<td>37122 Mt. Juliet</td>
<td>37092 Kingston Springs</td>
</tr>
<tr>
<td>37135 Nolensville</td>
<td>37143 Pegram</td>
</tr>
<tr>
<td>37150 Old Hickory</td>
<td>37152 Ridgetop</td>
</tr>
<tr>
<td>37167 Smyrna</td>
<td>37189 N.E. / Whites Creek</td>
</tr>
<tr>
<td>37200 Downtown</td>
<td>37203 Downtown</td>
</tr>
<tr>
<td>37201 Downtown</td>
<td>37204 Downtown</td>
</tr>
<tr>
<td>37202 Downtown</td>
<td>37205 Westmeade / Belle Meade</td>
</tr>
<tr>
<td>37206 East</td>
<td>37207 N.E. / Dickerson Rd.</td>
</tr>
<tr>
<td>37210 South</td>
<td>37208 North</td>
</tr>
<tr>
<td>37214 Nolensville Rd.</td>
<td>37209 West / North</td>
</tr>
<tr>
<td>37215 Little East</td>
<td>37212 Belmont</td>
</tr>
<tr>
<td>37214 Donelson</td>
<td>37215 Hillboro</td>
</tr>
<tr>
<td>37216 Inglewood</td>
<td>37218 Bordeaux</td>
</tr>
<tr>
<td>37217 Murfreesboro Rd.</td>
<td>37220 Oak Hill</td>
</tr>
<tr>
<td>37219 Nashville</td>
<td>37221 Bellevue</td>
</tr>
<tr>
<td>37224 Nashville</td>
<td>37228 North</td>
</tr>
<tr>
<td>37227 Nashville</td>
<td>37236 Baptist Hospital</td>
</tr>
<tr>
<td>37229 Nashville</td>
<td>37238 Nashville</td>
</tr>
<tr>
<td>37237 AmSouth Bank</td>
<td>37240 Vanderbilt University</td>
</tr>
<tr>
<td>37243 Tenn. Dept. of General Service</td>
<td>37246 NES</td>
</tr>
<tr>
<td></td>
<td>37247 Tenn. Dept. of Health Environ.</td>
</tr>
</tbody>
</table>

*37062 Fairview*
WHAT QUALIFIES FOR NES MAINTENANCE

INSTALLATIONS MEETING THE FOLLOWING CRITERIA:
1. THOSE INSTALLATIONS USING NES APPROVED MATERIALS AND,
2. INSTALLED ACCORDING TO NES REQUIREMENTS AND,
3. INSPECTED AND APPROVED BY NES STREET LIGHTING SUPERVISOR.
4. LOCATIONS WHERE CONSTRUCTION OF THE DEVELOPMENT IS COMPLETE
5. LOCATIONS WHERE LIGHTS HAVE BEEN ACCEPTED BY THE CITY

NORMAL FIXTURE COMPONENT FAILURE
FROM THE TIME AT WHICH THE FIXTURE IS ENERGIZED, NES WILL MAINTAIN THE FIXTURE FOR NORMAL COMPONENT FAILURE OF THE BALLAST, PHOTOCELL, LAMP, STARTER, AND CAPACITOR

LOCATION
FIXTURES MUST BE LOCATED NO MORE THAN 15 FT. FROM THE ROAD RIGHT OF WAY AND MUST BE ACCESSIBLE BY NES TRUCKS ON PAVED SURFACES

FIXTURES ON NES UTILITY POLES
MAINTAINED BY NES WHEN INSTALLED BY NES

NOTES
1. A SINGLE DEVELOPMENT MUST HAVE ALL STREET LIGHTING WITHIN THE DEVELOPMENT MAINTAINED (OR NOT MAINTAINED) BY NES. A COMBINATION WILL NOT BE ALLOWED.
2. LIGHTS THAT ARE MAINTAINED BY NES CANNOT BE BILLED THRU THE SAME CONTRACT FOR LIGHTS THAT ARE NOT MAINTAINED BY NES.
NES STREET LIGHTING
CONSTRUCTION DETAILS

FIGURE 1: TRENCH REQUIREMENTS-ROADWAY LIGHTING
FIGURE 2: CUSTOMER MAINTAINED LIGHTING IN UNDERGROUND DEVELOPMENTS
FIGURE 3: NES MAINTAIN LIGHTING IN UNDERGROUND DEVELOPMENTS
FIGURE 4: FOOTING DETAIL FOR SUBDIVISIONS-10’-14’ NES POLES
FIGURE 5: GENERAL FOOTING DETAIL-NES DAVIT POLE
FIGURE 6: TRAFFIC PULL BOX-STREET LIGHTING INSTALLATION DETAIL (LANDSCAPED AREAS)
FIGURE 7: TRAFFIC PULL BOX-STREET LIGHTING INSTALLATION DETAIL (PAVED AREAS)
FIGURE 8: UNDERGROUND STREET LIGHT SERVICE FROM RISER
FIGURE 9: STREET LIGHTING AND TRAFFIC SIGNAL MANHOLE CONNECTIONS
NOTES

1. All trenches shall meet OSHA standards.
2. Trench depths and widths given are the minimum working requirements.
3. All excavated and other materials shall be placed at least two feet from the edge of the trench.
4. All selected backfill shall be free from stones, rock or other material which might damage the conduit system. Selected backfill shall contain no solid material larger than two inches in diameter. If native soils are not suitable, #67 crushed gravel shall be substituted three inches above and three inches below the conduit.
5. A minimum of 12 inches vertical and horizontal clearance is required between NES and conduit of other utilities, unless the said utility has a greater clearance requirement (for example, Harpeth Valley Utility District requires five feet). Conduits for lighting not maintained by NES are considered another utility.
6. Conduit crossing under drainage ditches or small creeks shall have four inches of concrete encasement. The length of the encasement shall be determined in the field by NES.
7. All backfill shall be #67 crushed gravel under paved areas.
8. Schedule trench/conduit inspection with the appropriate street lighting supervisor a minimum of two business days prior to the desired time of inspection. Do not backfill trench prior to inspection by the street lighting supervisor.
9. If the street lighting conduits are installed at the same time, and in the same trench as the primary/secondary conduits for NES electrical distribution conduits, it is the customers responsibility to contact the street lighting supervisor for inspection of the 2” conduits shown on the distribution plan or the street lighting plan.
10. Conduit to be laid so that the imprint is visible from grade.
11. Customer must ensure complete conduit integrity throughout all lighting system before any lights will be energized. Damaged conduit must be repaired or replaced.

NOTE: Street lighting supervisor will not inspect work without an NES street lighting drawing.
DEVELOPER/CONTRACTOR NOTES:

1. NES requires an electrical release from the local codes department before energizing the breaker.
2. Contractor shall be responsible for all excavation and backfill.
3. Contractor shall install the street lighting conduit from the secondary compartment of the transformer to the enclosed circuit breaker. This portion of the installation is to be inspected by the NES Street Lighting Supervisor.
4. The contractor is responsible for coordinating the installation of the conduit and wire into the padmounted transformer with the NES street lighting supervisor.
5. Contractor shall furnish and install the wire from the padmounted transformer to the enclosed circuit breaker under the supervision of the NES street lighting supervisor.
6. All conduits for customer maintained lighting shall be in a separate trench from any other NES conduits.

NOTE: Enclosed circuit breakers are required to be installed on lighting systems that are not to be maintained by NES. Electrical inspections through the local codes department are required.

NOTE: THIS DETAIL IS NOT APPLICABLE TO PROJECTS IN THE CITY OF BRENTWOOD
DEVELOPER/CONTRACTOR NOTES:

1. NES requires an NES inspection approving the lighting system installation before energizing the fixtures.
2. Contractor shall be responsible for all excavation and backfill.
3. Contractor shall install the street lighting conduit and wire from the secondary compartment of the transformer to the light fixture.
4. The contractor is responsible for coordinating the installation of the conduit and wire into the padmounted transformer with the NES street lighting supervisor.
5. Customer shall furnish and install the wire into the padmounted transformer under the supervision of the NES street lighting supervisor.
6. Conduit to street light pole base or pullbox according to NES street lighting drawing or street lighting supervisor.

NOTE: Enclosed circuit breakers should not be installed for lighting systems which are to be maintained by NES.
NOTES:
1. Concrete to be Class 'A', 3000 P.S.I. compressive strength in 28 days.
2. All conduits to be capped.
3. Protect anchor bolts from damage before and after concrete pour. NES will require damaged anchor bolts to be replaced.
4. Schedule footing inspection with the street lighting supervisor a minimum of two business days prior to the desired time of inspection. Do not pour concrete without inspection and approval by the street lighting supervisor.
5. This detail is for use with NES selection of decorative poles (12') found in this handbook.
ANCHOR BOLT PATTERN: MUST BE SQUARED TO ROADWAY

1" BEVEL
2" CONDUIT

ANCHOR BOLT, (TYPICAL)

BOLT CIRCLE (B.C.)

A = 24"
B = *
C = 72"
B.C. = *

ANCHOR BOLT CIRCLE DIAMETER SHALL COMPLY WITH POLE MANUFACTURERS ANCHOR BOLT PATTERN. CENTER OF BOLT CIRCLE SHALL BE ON CENTERLINE OF FOOTING

18" OF WIRE BOND TO POLE BASE

1" X 72" GALVANIZED STEEL ANCHOR BOLTS

TOP OF FOOTING SHALL BE SMOOTH AND Level

1" BEVEL
3 1/2"
4"

1"-6" MIN.
7'-0" STD.

1" PVC STANDARD RADIUS

#4 BSD CU

N.C./N.F.S.: APPROVED GROUND CLAMP

1" PVC 24" RADIUS

2" PVC 24" RADIUS

5/8" X 8" GROUND ROD HORIZONTAL VERTICALLY

#4 TIE BAR LOCK

NOTES:
1. Concrete to be Class 'A', 3000 P.S.I. compressive strength in 28 days.
2. All conduits to be capped.
3. Protect anchor bolts from damage before and after concrete pour. NES will require damaged anchor bolts to be replaced.
4. Schedule footing inspection with the street lighting supervisor a minimum of two business days prior to the desired time of inspection. Do not pour concrete without inspection and approval by the street lighting supervisor.
5. This detail is for use with the NES Davit pole and poles greater than 14 ft. in height found in this handbook.

Nashville Electric Service
1214 Church St.
Nashville, Tennessee

GENERAL FOOTING DETAIL NES DAVIT POLE

SCALE: NONE
DRAWING NO.: 37246
ISSUE: FIGURE 5 A
NOTES

1. Excavate and backfill with minimum 18" thick layer of #67 crushed gravel.
2. Install box and backfill to within 12" of finished grade with #67 crushed gravel.
3. Backfill inside box within 3" of the top of the conduit with #67 crushed gravel.
4. The top of the pull box must be flush with finished grade.
5. Pull box to be furnished and installed by customer.
6. Schedule inspection of pull box installation with the appropriate street lighting supervisor a minimum of two business days prior to time of inspection. Do not cover any work prior to inspection.
7. NES reserves the right to require a larger pullbox. If larger pullbox is required, NES will issue specifications and installation requirements for the larger pullbox.
8. Pull boxes are required to be installed in any conduit run that exceeds 200 ft. The location of the box should be such that the pull length between pulling points does not exceed 200 ft.

PROVIDE NES APPROVED PULLBOX PRODUCT:
HUBBELL QUAZITE # A1213245015K1
CONTACT JAMMEY CHURCH @
HUBBELL @ 663-322-1295 FOR ORDERING INFORMATION
NES STOCK # 060020500

NOTE: PULLBOXES ARE NOT TO BE INSTALLED IN THE PATH OF VEHICULAR TRAVEL.
NOTE: CONTROL OF FIXTURE MAY BE BY INTEGRAL PHOTOCNLS DEPENDING ON PROJECT LOCATION.

1. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT TO WITHIN 18" OF WALL OF MANHOLE. CONTRACTOR SHALL TRENCH AND BACKFILL TO FACE OF MANHOLE UNDER SUPERVISION OF NES. NES TO CORE MANHOLE (IF NECESSARY) AND INSTALL 2" CONDUIT FROM MANHOLE TO CONTRACTOR'S CONDUIT. CONTRACTOR TO CONNECT CONDUITS. NES WILL FURNISH AND INSTALL CONDUCTORS FROM MANHOLE TO FIRST PULLBOX. CONTRACTOR IS RESPONSIBLE FOR REPAVING/REPAIRING ROAD AS REQUIRED BY PUBLIC WORKS.

2. ALL DOWN STREAM CONDUIT AND WIRING REQUIREMENTS FOR TRAFFIC SIGNAL WORK PAST THIS PULLBOX ARE TO BE DETERMINED BY PUBLIC WORKS.

3. NES TO DETERMINE 120 VOLT POWER SOURCE CONNECTION AND LIGHTING CONTROL METHOD FOR CUSTOMER.

4. POLE SET BACK TO BE 3' FROM FACE OF CURB AND 5' FROM RADIUS.
DRAWING NOTES:

1. TWO INCH (2") CONDUIT AND 24 INCH RADIUS ELBOWS TO BE USED.
2. CONDUIT MUST BE LAID SO THE SIZE IMPRINT IS VISIBLE.
3. THE CUSTOMER RESPONSIBLE FOR SOIL STABILIZATION DURING AND AFTER CONSTRUCTION. THE CUSTOMER IS ALSO RESPONSIBLE FOR THE DISPOSITION OF SPOILS FROM EXCAVATION.
4. NES TO FURNISH AND INSTALL STAND OFF BRACKETS.
5. NES MAY REQUIRE A PULLBOX AT BASE OF UTILITY POLE.
NASHVILLE ELECTRIC SERVICE
APPROVED RESIDENTIAL FIXTURES AND POLES

APPROVED RESIDENTIAL LIGHT POLES
1. HOLOPHANE BURLINGTON
2. HAPCO ABINGDON
3. HAPCO DECORATIVE
4. HAPCO GRANVILLE
5. HAPCO DAVIT

APPROVED RESIDENTIAL LIGHTING FIXTURES
1. HADCO V600
2. HADCO V151
3. HADCO ACORN
4. HOLOPHANE GRANVILLE
5. HOLOPHANE ARLINGTON
6. NES COBRAHEAD
HADCO V600 FIXTURE

HADCO CATALOG NUMBER: S7466-1

LAMP TYPE: 150 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: TR02332@.IES

POLE: 12 FT. DECORATIVE POLES IN THIS HANDBOOK

APPLICATION: RESIDENTIAL SUBDIVISIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL

MANUFACTURER’S REPRESENTATIVE:
GARY LOWE
CGL LIGHTING 615-383-2140 OR glowe@cgllighting.com
HADCO V151 FIXTURE

HADCO CATALOG NUMBER: S7466-A

LAMP TYPE: 150 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: V151-15SVB3.IES

POLE: 12 FT. DECORATIVE POLES IN THIS HANDBOOK

APPLICATION: RESIDENTIAL SUBDIVISIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL

MANUFACTURER’S REPRESENTATIVE:
GARY LOWE
CGL LIGHTING  615-383-2140 OR glowe@cgllighting.com
HADCO CATALOG NUMBER: S7912-1

LAMP TYPE: 150 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: R34-15S3VCN.IES

POLE: 12 FT. DECORATIVE POLES IN THIS HANDBOOK

APPLICATION: RESIDENTIAL SUBDIVISIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCCELL

MANUFACTURER’S REPRESENTATIVE:
GARY LOWE
CGL LIGHTING  615-383-2140 OR glowe@cgllighting.com
HOLOPHANE GRANVILLE FIXTURE

HOLOPHANE CATALOG NUMBER: GVU15AHPTB3RSBT

LAMP TYPE: 150 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: 44468.IES

POLE: 12 FT. DECORATIVE POLES IN THIS HANDBOOK

APPLICATION: RESIDENTIAL SUBDIVISIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL

MANUFACTURER’S REPRESENTATIVE:
SEAN CLARE
HOLOPHANE LIGHTING  615-885-2831 OR Sclare@holophane.com
HOLOPHANE ARLINGTON FIXTURE

HOLOPHANE CATALOG NUMBER: ARU15AHPMTBG3H

LAMP TYPE: 150 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: 42746.IES

POLE: 12 FT. DECORATIVE POLES IN THIS HANDBOOK

APPLICATION: RESIDENTIAL SUBDIVISIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL

MANUFACTURER’S REPRESENTATIVE:
SEAN CLARE
HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com
NES STOCKED COBRA-HEAD

LAMP TYPE: 100, 150, 250, AND 400 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILE: CONTACT NES

POLE: NES WOOD UTILITY POLES OR NES DAVIT POLE

APPLICATION: 100 AND 150 WATT FIXTURES FOR RESIDENTIAL/COMMERCIAL APPLICATIONS, ALL WATTAGES FOR COMMERCIAL APPLICATIONS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL

NES WILL FURNISH AND INSTALL COBRAHEAD FIXTURES
HOLOPHANE BURLINGTON POLE

HOLOPHANE CATALOG NUMBER: BL12F4/11-CA/BK-H

POLE STYLE: 12 FT HIGH, 4" DIAMETER, FLUTED, ALUMINUM SHAFT, DECORATIVE BASE, 3" TENON, BLACK FINISH

APPLICATION: RESIDENTIAL SUBDIVISIONS

LUMINAIRE: NES 150 WATT RESIDENTIAL DECORATIVE POST TOP FIXTURES IN THIS HANDBOOK

FOOTING DETAIL: 3 FT DEEP, 24" DIAMETER, SEE FIGURE 4, ANCHOR BOLTS & TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVE:
SEAN CLARE: HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com
HAPCO ABINGDON

POLE STYLE: 12 FT HIGH, 4" DIAMETER, FLUTED, ALUMINUM SHAFT, DECORATIVE BASE, 3" TENON, BLACK FINISH

APPLICATION: RESIDENTIAL SUBDIVISIONS

LUMINAIRE: NES 150 WATT RESIDENTIAL DECORATIVE POST TOP FIXTURES IN THIS HANDBOOK

FOOTING DETAIL: 3 FT DEEP, 24" DIAMETER, SEE FIGURE 4, ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVE:
DEREK VARNER: YODER BRICKEY SALES 615-220-9994 OR djvarner1@aol.com
POLE STYLE: 12 FT HIGH, 3" DIAMETER, FLUTED, ALUMINUM SHAFT, DECORATIVE BASE, 3" TENON, BLACK FINISH

APPLICATION: RESIDENTIAL SUBDIVISIONS

LUMINAIRE: NES 150 WATT RESIDENTIAL DECORATIVE POST TOP FIXTURES IN THIS HANDBOOK

FOOTING DETAIL: 3 FT DEEP, 24" DIAMETER, SEE FIGURE 4, ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVE:
GARY LOWE: CGL LIGHTING 615-383-2140 glowe@cgllighting.com
HAPCO GRANVILLE

POLE STYLE: 12 FT HIGH, 4" DIAMETER, FLUTED, ALUMINUM SHAFT, DECORATIVE BASE, 3" TENON, BLACK FINISH

APPLICATION: RESIDENTIAL SUBDIVISIONS

LUMINAIRE: NES 150 WATT RESIDENTIAL DECORATIVE POST TOP FIXTURES IN THIS HANDBOOK

FOOTING DETAIL: 3 FT DEEP, 24" DIAMETER, SEE FIGURE 4, ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVE:
DEREK VARNER: YODER BRICKEY SALES 615-220-9994 OR djvarner1@aol.com
HAPCO ALUMINUM DAVIT POLE

POLE STYLE: 35 FT SINGLE ARM DAVIT POLE, 6 FT SET BACK, SATIN ALUMINUM FINISH, ROUND TAPERED POLE, SINGLE PIECE POLE

APPLICATION: RESIDENTIAL SUBDIVISIONS OR AS APPROVED BY NES OR APPLICABLE SATELLITE CITY

LUMINAIRE: COBRAHEAD FURNISHED AND INSTALLED BY NES

FOOTING DETAIL: 6 FT DEEP, 24" DIAMETER, SEE FIGURE 5, 72" ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVE:
GARY LOWE: CGL LIGHTING 615-383-2140 glowe@cgllighting.com
NES STREET LIGHTING
APPROVED ASSEMBLIES FOR
DOWNTOWN NASHVILLE

APPROVED COMMERCIAL/
DOWNTOWN DISTRICT LIGHTING
ASSEMBLIES

1. TRADITIONAL SUB-DISTRICT ASSEMBLY
2. TRADITIONAL AND CORE SUB-DISTRICT TRAFFIC POLE ASSEMBLY
3. TRADITIONAL SUB-DISTRICT ALTERNATE ASSEMBLY
4. TRADITIONAL SUB-DISTRICT TRAFFIC POLE ALTERNATE ASSEMBLY
5. CONTEMPORARY SUB-DISTRICT ASSEMBLY
6. CONTEMPORARY SUB-DISTRICT TRAFFIC POLE ASSEMBLY
7. CORE SUB-DISTRICT ASSEMBLY

NOTE: IT IS THE CUSTOMER’S RESPONSIBILITY TO CONTACT METRO PUBLIC WORKS TO DETERMINE THE FIXTURE AND POLE TYPE TO BE USED. IT IS ALSO THE CUSTOMER’S RESPONSIBILITY TO DETERMINE THE ROADWAY AND PEDESTRIAN TRAFFIC CLASSIFICATIONS FROM METRO PUBLIC WORKS.

TRADITIONAL SUB-DISTRICT ASSEMBLY

**FIXTURE: HOLOPHANE WASHINGTON SERIES CATALOG NUMBERS:**
150 WATTS: WE15AHPMAB3B6H-PS (COLOR CORRECTED, G-18092 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN BUSINESS CORE DISTRICT)
250 WATTS: WE250HPMAB3B6H-PS (COLOR CORRECTED, G-11785 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN CENTRAL BUSINESS CORE DISTRICT)

**LAMP TYPE:** 150 AND 250 WATT HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE.

**PHOTOMETRIC FILES:**
150 WATT: 47148.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)
250 WATT: 47135.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)

**POLE:** 16 FT HADCO DECORATIVE POLE, CAT # SP5442F

**APPLICATION:** DOWNTOWN NASHVILLE, TRADITIONAL SUB-DISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

**QUANTITIES, LOCATIONS, AND SPACING, REQUIREMENTS:** DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS FOR APPROVAL PRIOR TO CONSTRUCTION

**CONTROL:** INTEGRAL TWIST-LOCK TYPE PHOTOCCELL RECEPTACLE.

PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

**FOOTING DETAIL:** 6 FT DEEP, 24” DIAM., SEE FIGURE 5, ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

**MANUFACTURER’S REPRESENTATIVES:**
**FIXTURE:**
SEAN CLARE
HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com

**POLE:**
GARY LOWE
CGL LIGHTING 615-383-2140 OR glowe@cgllighting.com
INTERSECTION LIGHTING-TRADITIONAL AND CORE SUB-DISTRICTS-TRAFFIC POLE ASSEMBLY

FIXTURE: HOLOPHANE WASHINGTON SERIES CATALOG NUMBERS:
150 WATTS: WE15AHMAB3B6H-PS (COLOR CORRECTED, G-18092 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN BUSINESS CORE DISTRICT)
250 WATTS: WE250HPMAB3B6H-PS (COLOR CORRECTED, G-11785 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN BUSINESS CORE DISTRICT)

LAMP TYPE: 150 AND 250 WATT, HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILES:
150 WATT: 47148.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)
250 WATT: 47135.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)

ARM & POLE: METRO PUBLIC WORKS TRAFFIC SIGNAL POLE ACCORDING TO METRO PUBLIC WORKS STANDARDS

APPLICATION: DOWNTOWN NASHVILLE, TRADITIONAL SUB-DISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS: DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS FOR APPROVAL PRIOR TO CONSTRUCTION

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE. PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

MANUFACTURER'S REPRESENTATIVES:
FIXTURE:
SEAN CLARE
HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com

TRAFFIC SIGNAL POLE REQUIREMENTS:
CHIP KNAUF
METRO PUBLIC WORKS
615-880-3443
TRADITIONAL SUB-DISTRICT ALTERNATE
ASSEMBLY

FIXTURE: HOLOPHANE GLOBE SERIES CATALOG NUMBERS:
175 WATTS: GSU175MHMABG19H (GLASS)
175 WATTS: PSU175MHMABN4AH (PLASTIC)
USE OF GLASS OR PLASTIC DETERMINED BY METRO PUBLIC WORKS

LAMP TYPE: 175 WATT, METAL HALIDE WITH MOGUL BASE

PHOTOMETRIC FILES:
GLASS 175 WATT: 49432.IES
PLASTIC 175 WATT: 42730.IES

POLE: 12 FT HADCO DECORATIVE POLE, CAT # P2555

APPLICATION: DOWNTOWN NASHVILLE, TRADITIONAL SUB-DISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS: DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE. PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

FOOTING DETAIL: 6 FT DEEP, 24" DIAM., SEE FIGURE 5, ANCHOR BOLTS AND TEMPLATES TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVES:
FIXTURE:
SEAN CLARE
HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com

POLE:
GARY LOWE
CGL LIGHTING 615-383-2140 OR glowe@cglighting.com
FIXTURE: HOLOPHANE GLOBE SERIES CATALOG NUMBERS:
175 WATTS: GSU175MHMABG19H (GLASS)
175 WATTS: PSU175MHMABN4AH (PLASTIC)
USE OF GLASS OR PLASTIC DETERMINED BY METRO PUBLIC WORKS

LAMP TYPE: 175 WATT, METAL HALIDE WITH MOGUL BASE

PHOTOMETRIC FILES:
GLASS 175 WATT: 49432.IES
PLASTIC 175 WATT: 42730.IES

ARM & POLE: METRO PUBLIC WORKS TRAFFIC SIGNAL POLE AND
ARM ACCORDING TO METRO PUBLIC WORKS STANDARDS

APPLICATION: DOWNTOWN NASHVILLE, TRADITIONAL SUB-DISTRICT
AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC
WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS:
DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY
AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-
CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE
SUBMITTED TO NES AND METRO PUBLIC WORKS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE.
PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY
NES

MANUFACTURER’S REPRESENTATIVES:
FIXTURE:
SEAN CLARE
HOLOPHANE LIGHTING  615-885-2831 OR Sclare@holophane.com

TRAFFIC SIGNAL POLE REQUIREMENTS:
CHIP KNAUF
METRO PUBLIC WORKS
615-880-2440
CONTEMPORARY SUB-DISTRICT ASSEMBLY

FIXTURE: USA LIGHTING CATALOG NUMBERS:
100 WATTS: VPR-R-HRIII-100HMT-PT-SLM

LAMP TYPE: 100 WATT, METAL HALIDE LAMP WITH MOGUL BASE

PHOTOMETRIC FILES:
100 WATT: VPR-R-H3-17M.IES (LUMENS ADJUSTED FOR 100 W MH LAMP)

POLE: USA LIGHTING POLE, RNTA-165.125-PT27-RBC-SLM-FBA20-BEB

APPLICATION: DOWNTOWN NASHVILLE, CONTEMPORARY SUBDISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS:
DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION.
PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE. PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

FOOTING DETAIL: 6 FT. DEEP, 24" DIAM., SEE FIGURE 5, ANCHOR BOLTS AND TEMPLATES TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVES:
FIXTURE:
USA LIGHTING, LARRY FLAIR
615-383-2030
OR larry@onealite.com
INTERSECTION LIGHTING-CONTEMPORARY SUB-DISTRICT-TRAFFIC POLE ALTERNATE ASSEMBLY

FIXTURE: USA LIGHTING CATALOG NUMBER:
100 WATTS: VPR-R-HRIII-100HMT-PT-SLM

LAMP TYPE: 100 WATT, METAL HALIDE WITH MOGUL BASE

PHOTOMETRIC FILES:
100 WATT: VPR-R-H3-17M.IES (ADJUSTED FOR 100 WATT LAMP LUMENS)

ARM & POLE: METRO PUBLIC WORKS TRAFFIC SIGNAL POLE AND ARM ACCORDING TO METRO PUBLIC WORKS STANDARDS

APPLICATION: DOWNTOWN NASHVILLE, CONTEMPORARY SUB-DISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS: DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE. PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

MANUFACTURER’S REPRESENTATIVES:
FIXTURE:
USA LIGHTING, LARRY FLAIR
615-383-2030 OR
larry@onealite.com

POLE:
TRAFFIC SIGNAL POLE REQUIREMENTS:
CHIP KNAUF
METRO PUBLIC WORKS
615-880-2440
CORE SUB-DISTRICT-ASSEMBLY

FIXTURE: HOLOPHANE CRYSTALITE SERIES CATALOG NUMBERS:
150 WATTS: CRU15AHMAB4R-PS (G-18092 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN BUSINESS CORE DISTRICT)
250 WATTS: CRU250HPMAB4RPS-PS (G-11785 LAMP ONLY WHEN USED IN NASHVILLE DOWNTOWN BUSINESS CORE DISTRICT)

LAMP TYPE: 150 AND 250 WATT, HIGH PRESSURE SODIUM LAMP WITH MOGUL BASE

PHOTOMETRIC FILES:
150 WATT: 47264.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)
250 WATT: 47254.IES (ADJUST LUMENS WHEN USING COLOR CORRECTED LAMPS)

POLE: VALMONT DB00657D
ARM: HOLOPHANE OUC45/1-CA/BK (SINGLE)
ARM: HOLOPHANE OUC45/2-CA/BK (DOUBLE)
FITTER: BHLF200-CA/BK-AOL-6241 PER FIXTURE

APPLICATION: DOWNTOWN NASHVILLE, CORE SUB-DISTRICT AREA, CENTRAL BUSINESS CORE OR AS REQUIRED BY METRO PUBLIC WORKS

QUANTITIES, LOCATIONS, AND SPACING REQUIREMENTS:
DETERMINED BY CUSTOMER/DEVELOPER ACCORDING TO ROADWAY AND PEDESTRIAN CLASSIFICATIONS IN TABLE 2 OF THE IES RP-8-CURRENT EDITION. PHOTOMETRIC CALCULATIONS REQUIRED TO BE SUBMITTED TO NES AND METRO PUBLIC WORKS

CONTROL: INTEGRAL TWIST-LOCK TYPE PHOTOCELL RECEPTACLE. PHOTOCELL OR SHORTING CAP REQUIREMENT AS DETERMINED BY NES

FOOTING DETAIL: 6 FT DEEP, 24" DIAM., SEE FIGURE 5, ANCHOR BOLTS AND TEMPLATE TO BE FURNISHED WITH POLE

MANUFACTURER’S REPRESENTATIVES:
FIXTURE, ARM, AND FITTER:
SEAN CLARE
HOLOPHANE LIGHTING 615-885-2831 OR Sclare@holophane.com

POLE:
MIKE WRIGHT
FACTORY SALES AGENCY 615-242-5050 OR Mwright@FSALIGHTING.com
APPENDIX

SAMPLE REQUEST LETTERS

INCLUDE THE FOLLOWING IN A WRITTEN LETTER (ON BUSINESS LETTERHEAD) TO REQUEST TO CHANGE BILLING INFORMATION ON A FLAT RATE ACCOUNT:

"I WOULD LIKE TO REQUEST THAT THE FLAT RATE ACCOUNT NUMBER (INCLUDE THE ACCOUNT NUMBER) IN THE CUSTOMER NAME OF (INCLUDE CURRENT CUSTOMER NAME) FOR USE AT (INCLUDE THE LOCATION OF THE LIGHTING BEING TRANSFERRED) TO THE FOLLOWING CUSTOMER:

NEW CUSTOMER NAME
BILLING ADDRESS
CITY, STATE, ZIP
NEW CUSTOMER CONTACT NAME:
NEW CUSTOMER CONTACT PHONE NUMBER:
NEW CUSTOMER FEDERAL ID OR SOCIAL SECURITY NUMBER:

IF YOU SHOULD NEED ADDITIONAL INFORMATION, PLEASE CONTACT ME AT (INCLUDE YOUR TELEPHONE NUMBER)

(Note: The new customer will be required to sign a flat rate contract and the new account will be considered a 'successor' account. The existing account must be current in payments, or must become current, before the account will be transferred. NES reserves the right to inspect the lighting system being transferred for damage. Construction damage will be repaired by the developer prior to the transfer to a Homeowners Association.)

Note: If the Homeowners Association chooses to accept the transfer of the flat rate account to the Homeowners Association prior to the end of construction in the subdivision, the Homeowners Association will become responsible for pole and fixture damages until construction is complete.

INCLUDE THE FOLLOWING IN A WRITTEN LETTER (ON BUSINESS LETTERHEAD) TO REQUEST TO ADD OR REMOVE LIGHTING:

"I WOULD LIKE TO REQUEST ADDITIONAL LIGHTS (OR THE REMOVAL OF LIGHTS AS THE CASE MAY BE) BE ADDED AND BILLED TO OUR FLAT RATE ACCOUNT. THE FLAT RATE ACCOUNT NUMBER IS (INCLUDE FLAT RATE ACCOUNT NUMBER) AND IS FOR USE AT (INCLUDE THE LOCATION OF THE LIGHTING BEING ADDED OR REMOVED). IF YOU SHOULD NEED ADDITIONAL INFORMATION, I CAN BE REACHED AT (INCLUDE PHONE NUMBER)

(Note: See other sections of this handbook for additional information that is required to be submitted)
# Street Light Design Manual

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>Revision Summary</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/01/08</td>
<td>Complete Update and Change to Visio</td>
<td>Created by: Marie Anderson PMA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supervisor: Vaughan Charles VNC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manager: Nick Thompson NCT</td>
</tr>
<tr>
<td>08/29/11</td>
<td>Update Figure 6 for updated manufacturer</td>
<td>Created by: Marie Anderson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supervisor: Ron Davidson</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Manager: Nick Thompson</td>
</tr>
</tbody>
</table>