New York City Department Of Transportation
Division Of Street Lighting
Street Lighting Standard Drawings
LAMPPPOST DRAWINGS
NOTES:

1. BASE, SHAFT & ARMS SHALL BE HIGH TENSIL LOW ALLOY STEEL, HOT DIPPED GALVANIZED.
2. FOR GROUNDING DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-005.
3. FOR TRANSFORMER BASE DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-005.
4. FOR BOLT COVER DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING J-225.
PEDESTRIAN STEEL DAVIT POLE
(WITH TRANSFORMER BASE)

2'-2.50" RADIUS

4'-0"

6'-0"

14'-0"

5.8" DIA. TO 3.49" DIA.

SEE DETAIL 1 (TYP.)

5.8" DIA. TO 3.23" DIA.

SEE DETAIL 2 (TYP.)

TRANSFORMER BASE (TYP.)

PEDESTRIAN ARM LOCATION;
POLE PLATE AS PER NYC DOT STREET LIGHTING STANDARD DRAWING LP-003
AND ARM PLATE AS PER NYC DOT STREET LIGHTING STANDARD DRAWING ARM-001

SCALE: 1/2" = 1'-0"

NOTES:
1. BASE, SHAFT & ARMS SHALL BE HIGH TENSILE LOW ALLOY STEEL, HOT DIPPED GALVANIZED.
2. FOR GROUNDING DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-005.
3. FOR TRANSFORMER BASE DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-005.
4. FOR BOLT COVER DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-002.
5. FOR LAMPOST WITH HANDHOLE (WITHOUT T. BASE) SEE HANDHOLE DETAILS ON NYC DOT STREET LIGHTING STANDARD DRAWING LP-003.

DRAWING NO. LP-007

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY DOT

REVISION

AS NOTED J-5308
NOTES:
1. TRANSFORMER BASE SHALL COMPLY WITH FEDERAL HWY ADMINISTRATION/1985 AASHTO FRANGIBILITY REQUIREMENT.
2. TRANSFORMER BASE SHALL BE DESIGNED TO BE ATTACHED TO 1" DIA. ANCHOR BOLTS ON 14" TO 15" DIA. B.C.
3. THE DOOR SHALL BE LOCATED IN APPROXIMATELY THE CENTER OF SIDE OF WALL AND SECURED IN PLACE BY MEANS OF A STAINLESS STEEL HINGE WITH FAST PIN AT TOP AND AT BOTTOM A 300 SERIES, 18-8 STAINLESS STEEL 1/2"-13 X 1 1/4" LONG BUTTON HD. SOCKET SCREW LOCKING MECHANISM.
4. FOR ADDITIONAL DETAILED INFORMATION, SEE DIVISION OF STREET LIGHTING SPECIFICATIONS FOR FRANGIBLE CAST ALUMINUM TRANSFORMER BASE AND LAMPPOST.
5. SOCKET SIDE OF FUSED CONNECTOR KIT SHALL REMAIN ON LINE SIDE OF CONNECTION AND FUSE SHALL REMAIN ON LOAD SIDE WHEN CONNECTOR KIT SEPARATES.
6. SOCKET SIDE OF NON-FUSED SOLID NEUTRAL CONNECTOR KIT SHALL REMAIN ON LOAD SIDE OF CONNECTION AND MALE CONTACT SHALL REMAIN ON LINE SIDE WHEN CONNECTOR KIT SEPARATES.
7. FOR TWIN LUMINARIES, ADDITIONAL FUSE HOLDER WITH FUSE IS REQUIRED.
8. OR OTHERWISE APPROVED.
NOTES:
1. 4043 WELDING.
2. THERMAL TREATMENT AFTER WELDING.
3. BRUSHED FINISH 80 GRIDS.
4. SHOE BASE SHALL BE DESIGNED TO BE ATTACHED TO 1” DIA. ANCHOR BOLTS ON AN 11” TO 12” DIA. BOLT CIRCLE.
5. GROUNDING BUSHING SHALL BE IN LEVEL WITH THE BOTTOM OF THE HAND HOLE.
6. WHERE LAMPPOST WITH OR WITHOUT HANDHOLE IS INSTALLED ON TRANSFORMER BASE SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-013 FOR DETAILS.
7. SEE ALUMINUM LAMPPOST SPECIFICATIONS FOR ADDITIONAL DATA AND REQUIREMENTS.
8. SEE NYC DOT STREET LIGHTING DRAWINGS SL-MIS-015_1 AND SL-MIS-015_2 FOR WIRING DETAILS.

TWIN 8" ARM
SCALE: 3/4" = 1'-0"
NOTES:
1. 4043 WELDING.
2. THERMAL TREATMENT AFTER WELDING.
3. BRUSHED FINISH 80 GRIDS.
4. SHOE BASE SHALL BE DESIGNED TO BE ATTACHED TO 1" DIA. ANCHOR BOLTS ON AN 11" TO 12" DIA. BOLT CIRCLE.
5. GROUNDING BUSHING SHALL BE IN LEVEL WITH THE BOTTOM OF THE HANDHOLE.
6. WHERE LAMPPOST WITH OR WITHOUT HANDHOLE IS INSTALLED ON TRANSFORMER BASE, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-013 FOR DETAILS. SEE ALUMINUM LAMPPOST SPECIFICATIONS FOR ADDITIONAL DATA AND REQUIREMENTS.

PEDESTRIAN ALUMINUM DAVIT POLE
SCALE: 1/12" = 1'-0"

SHOE BASE ON-PIECE 356-T6 ALUMINUM ALLOY
6" O.D.

REINFORCED HANDHOLE WITH REMOVABLE COVER APPROX. 3 1/2" x 5 1/2"

ONE-PIECE BEAMLESS ROUND 6063-T6 ALUMINUM ALLOY 8" O.D. x 0.083" WALL

DETAIL 1
SCALE: 1/12" = 1'-0"

SECTION A-A
ANCHOR BASE
SCALE: 1 1/2" = 1'-0"

DETAIL 2
SCALE: 1" = 1'-0"

MEANS FOR INSTALLING W/1 GROUNDING STUD 8" O.D. SHOE BASE OPPOSITE HANDHOLE

R 3'-3"

DRAWING NO.
OLD DRAWING NO.

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

14' ALUMINUM DAVIT PEDESTRIAN LAMPOST (WITHOUT TRANSFORMER BASE)

AS NOTED
J-5308
LP-010
SHOE BASE ONE-PIECE 356-T6 ALUM. ALLOY MEANS FOR INSTALLING 5/16" - 18K2C GROUNDING STUD SHALL BE PROVIDED INSIDE SHAFT OPPOSITE HANDHOLE.

REINFORCED HANDHOLE WITH REMOVABLE COVER, APPROX 5" x 7" CONSTANT 8" O.D. FOR THE FIRST 5' OR 8' LOWER SECTION ONE-PIECE, SEAMLESS, ROUND, 6063 - T6 ALUMINUM ALLOY, 0.188" THK, WITH A NEGATIVE TOLERANCE OF 10%.

6061-T6 OR 6005-T5 CLAMPING DEVICE WITH (4) S.S. BOLTS, NUTS, AND LOCKWASHERS CROSS-SECTION (4"x2 3/8") APPROX. LONG AXIS IS VERTICAL STRUT BAR 1 1/4"x1/4" OR EQUAL, 6061 ALUM. ALLOY CROSS-SECTION (4"x2 3/8") APPROX. LONG AXIS IS VERTICAL 12" SQ. 3° TO 5° 3'-0" 7" MIN. STRAIGHT 3 1/2" 18" 5'-0" (MIN.) 8'-0" (MAX.) 12'-0" 36" 1 1/2" DIA. WIREWAY HOLE WITH GROMMET 7" MIN. STRAIGHT 3 1/2" 18" 5'-0" (MIN.) 8'-0" (MAX.) 12'-0" 36" 1 1/2" DIA. WIREWAY HOLE WITH GROMMET 1/4" ATTACHMENT PLATE WELDED TO ARM 6061-T6 OR 6005-T5 ALUMINUM ALLOY WITH (4) 5/8" O.D. HOLES AND (4) 1/2"-13x1 1/2" S.S. HEX. BOLTS WITH LOCKWASHERS AND NUTS. WIREWAY SHALL BE APPROX. 1.5" IN DIAMETER WITH ROUNDED EDGES, HOLES SHALL MATCH HOLES IN SHAFT.

NOTES:
1. SHOE BASE SHALL BE DESIGNED TO BE ATTACHED TO 1" DIA. ANCHOR BOLTS ON AN 11" TO 12" DIA. BOLT CIRCLE.
2. FOR 8' ARM LAMPPOST, THE DETAILS OF SHAFT, HANDHOLE AND SHOE BASE SHALL BE THE SAME FOR 12" ARM.
3. GROUNDING BUSHING SHALL BE IN LEVEL WITH THE BOTTOM OF THE HANDHOLE.
4. SEE ALUMINUM LAMPPOST SPECIFICATIONS FOR ADDITIONAL DATA AND REQUIREMENTS.
12'-0" 2'-0" 3'-0" 6" STRAIGHT MIN. 7" STRAIGHT MIN. 2 3/8" O.D.

COVER 6061-T6 EXTRUSION, WELDED

POLE CAP WITH (3) 1/4"-20-1/2" LG S.S. CUP POINT SOCKET SET SCREWS @ 120°

1 1/4" DIA. WIRE HOLE FOR A 1" RUBBER GROMMET

UPPER AND LOWER BRKT. ARM ALUM. 6063-T6 OR 6005-T5 TAPERED FROM 3 1/2" O.D. x .125" WALL

APPRIOR, ELLIPSE 4 1/4"x2 1/2"

6061-T6 OR 6005-T5 CLAMPING DEVICE WITH (4) S.S. NUTS, BOLTS, & LOCKWASHER.

6063-T6 ALUM. SHAFT TAPERED 8"x5 1/2"x0.188" WALL SATIN GROUND FINISH 80 GRIT.

ALTERNATE MAT'L ALUM. ALLOY 6005-T5

1/2" FABREEKA PAD & 11/32" THICK FABREEKA FLATWASHERS WHEN REQUIRED

1 1/2" GALV. STL. CONNECTING BOLTS W/ NUT, FLAT, & LOCKWASHER

SHOE BASE: A356-T6

A356-T6 ALUM. ALLOY TRANSFORMER BASE

TRANSFORMER BASE DETAIL

SCALE: 1/2" = 1'-0"

TRANSFORMER BASE DETAIL

SCALE: 1-1/2" = 1'-0"

N.O.T.E.S:

1. IN LINE FUSE HOLDER ELASTIMOLD CAT # 65U OR EQUAL WITH 15 AMP FUSE BUSS KTK OR EQUAL.

2. TRANS. BASE SHALL BE DESIGNED TO BE ATTACHED TO 1" DIA. ANCHOR BOLTS ON A 14" TO 15 1/2" DIA. BOLT CIRCLE.

3. THE DOOR SHALL BE LOCATED IN APPROX. CENTER OF SIDE WALL AND SECURED IN PLACE BY MEANS OF A STAINLESS STEEL HINGE WITH FAST PIN AT TOP AND AT BOTTOM A 3S SERIES, 1 1/4" LG. BUTTON HD. SOCKET SCREW LOCKING MECHANISM.

4. TRANSFORMER BASE SHALL COMPLY WITH FEDERAL HIGHWAY ADMIN. FRANGIBILITY REQUIREMENT.

5. FOR ADDITIONAL DETAILED INFORMATION SEE NYC DOT STREET LIGHTING SPECIFICATIONS, FOR FRANGIBLE CAST ALUM. TRANS. BASE & LAMPPOST.

6. SOCKET SIDE OF FUSED CONNECTOR KIT SHALL REMAIN ON CONNECTION AND FUSE SHALL REMAIN ON LOAD SIDE WHEN CONNECTOR KIT SEPARATES.

7. FEEDER SHALL BE TIED TO CONDUIT WITH TIE WIRE.

8. FOR TWIN LUMINAIRE, ADDITIONAL FUSE HOLDER WITH FUSE IS REQUIRED.

9. SOCKET SIDE OF NON-FUSED SOLID NEUTRAL CONNECTOR KIT SHALL REMAIN ON LOAD SIDE OF CONNECTION AND MALE CONTACT SHALL REMAIN ON LINE SIDE WHEN CONNECTOR KIT SEPARATES.

10. FOR WIRING DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-015_1.
NOTES:

POLE:

The pole shaft is a tapered steel, or a tapered ductile iron unit, which is octagonal at the base and tapers to a round shape per drawings. The pole shall have no less than 0.25" thick walls and shall meet all NYCDOT Signals criteria for supporting of 25 ft. traffic signal mast arms.

BASE:

Base and cover is made out of steel, ISO 450-10 spheroidal graphite, or ductile iron ASTM A536-84 Grade 65-45-12. Base shall be manufactured in 2 pieces, however base and pole shall be factory assembled for accurate alignment. Base cover made as one piece construction and attaches to base shaft for smooth base-pole transition.

FOUNDATION:

Shall be as per NYC DOT Street Lighting Standard Drawing FDN-003 (latest version).

BOLT CIRCLE:

Bolt circle is 15" C.C.

ANCHOR BOLTS:

4 galvanized anchor bolts 1" X 42" long.

DOOR ACCESS:

Door cover made of steel, or ductile iron, and is designed to fit 7" W X 10" H hand hole. Door to have concealed hinges and be held shut by captive recessed Torx type fasteners.

MOUNTING PLATE:

MOUNTING PLATE provision to allow easy terminal block and circuit breaker installation.

FINISH:

Electrostatically applied thermoset polyester powdercoat with a four part corrosion inhibiting process.

COLOR:

Base: 2 coats of PPG ALK 300/201 Low VOC acrylic modified alkyd enamel - LG, tinted to PPG color PCU 73101.

Base: 2 coats of PPG ALK 300/201 Low VOC acrylic modified alkyd enamel - LG, black, PPG color PC 828.

UPPER COLUMN, ARM AND FIXTURE: 2 coats of PPG ALK 300/201 Low VOC acrylic modified alkyd enamel - LG, tinted to PPG color PCU 73101, or as specified by NYCDOT Street Lighting Engineering.
OPTICAL ASSEMBLY, SEALED TO HINGED LOWER HOUSING, WITH TYPE II DISTRIBUTION

SIDE VIEW
TWIST LOCK TYPE PHOTOCELL
FRONT VIEW
BOTTOM VIEW

A
B

TEMPERED GLASS LENS, DIA. TBD BY MFG
LED MODULE

NOTES:

DIFFUSER HOUSE MATERIAL:
ALLOY, THE CASTING SHALL BE OF UNIFORM WALL THICKNESS WITH NO WARping OR MOLD SHIFTING AND SHALL BE FORMED TRUE TO THE ORIGINAL PATTERN WITH COMPLETE DETAILS.

DIFFUSER MATERIAL:
TEMPERED GLASS.

HARDWARE:
STAINLESS STEEL.

PHOTO CONTROL:
TWIST-LOCK TYPE RECEPTACLE. (PHOTOCELL BY OTHERS)

FINISH:
ELECTROSTATICALLY APPLIED THERMOSET POLYESTER POWDER-COAT WITH XL4 FOUR PART CORROSION INHABITING PROCESS.

COLOR:
2 COATS OF PPG ALK 300/201 LOW VOC ACRYLIC MODIFIED ALKYD ENAMEL - LG, TINTED TO PPG COLOR PCU 73101.
OR, AS SPECIFIED BY NYC DOT STREET LIGHTING ENGINEERING.

SPECIFICATION:
AS PER NYC DOT STREET LIGHTING STANDARD SPECIFICATION NO. 471

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y. 11101

NEW YORK CITY

TYPE S LAMPPOST AND LUMINAIRE

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y. 11101

NEW YORK CITY

SCALE
OLD DRAWING NO.
DRAWING NO.
NO DATE BY DESCRIPTION

3' = 1'-0" 5317 LP-014_3
PARTIAL SECTION A-A

LED MODULE
HINGED DOOR ASSEMBLY WITH OPTICAL ASSEMBLY
TEMPERED GLASS LENS
GASKET
UPPER HOUSING WITH SLIPFITTER AND PHOTOCELL
TWIST LOCK RECEPTACLE FOR PHOTOCELL

NOTES:

DIFFUSER HOLDER MATERIAL:
MACHINE CAST ALUMINUM (365.1 ALLOY), THE CASTING
SHALL BE OF UNIFORM WALL, THICKNESS WITH NO WARping OR MOLD
SHIFTING AND SHALL BE FORMED TRUE TO THE ORIGINAL PATTERN
WITH COMPLETE DETAILS.

DIFFUSER MATERIAL:
TEMPERED GLASS.

HARDWARE:
STAINLESS STEEL.

FINISH:
ELECTROSTATICALLY APPLIED THERMOSET POLYESTER
POWDERCOAT WITH XL4 FOUR PART CORROSION INHABITING PROCESS,
COLOR:
2 COATS OF PPG ALK 300/201 LOW VOC ACRYLIC MODIFIED
ALKYD ENAMEL, LG. TINTED TO PPG COLOR PCU 73101
OR, AS SPECIFIED BY NYC DOT STREET LIGHTING ENGINEERING.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD               L.I.C., N.Y. 11101

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

TYPE S LAMPPOST AND LUMINAIRE

3" = 1'-0"
5317 LP-014_4
LAMPPOST DETAIL
SCALE: 1/2" = 1'-0"

BASE TAPPED FOR ATTACHING 1/4" BOLT COVERS

BASE SHOWN IN UNLOCKED POSITION

SECTION A-A
SCALE: 1" = 1'-0"

SHOE BASE DETAIL
SCALE: 1" = 1'-0"

SIDE VIEW
FRONT VIEW

SECTION OF SHAFT SHOWING HOLE LOCATIONS
SCALE: 1" = 1'-0"

CONTINUOUS WELD FRAME
COVER
BAR SHOWN IN UNLOCKED POSITION

HANDHOLE DETAILS
SCALE: 2" = 1'-0"

STAINLESS STEEL HEX NUT
ANCHOR BOLT STUD
STAINLESS STEEL FLAT WASHERS
STAINLESS STEEL LOCKWASHER
2 5/8" O.D. x 11/32" THICK COMPOSITION WASHER
LAMPPOST BASE PLATE
14" SQUARE x 1/2" THICK VIBRATION PAD

VIBRATION PAD INSTALLATION
SCALE: 6" = 1'-0"

VIBRATION DAMPER DETAIL
SCALE: 1" = 1'-0"

VINYL END CAP
CABLE
DAMPER
COLLET DAMPER
DAMPER CASTING
STAINLESS STEEL FLAT WASHER
STAINLESS STEEL BOLT, HEX HEAD
STAINLESS STEEL LOCKWASHER
STANDOFF INTERNAL DAMPER
CABLE DAMPER
VINYL END CAP

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD               L.I.C.,N.Y.11101

NOTES:
1. ONLY A SINGLE 2', 4', AND 8' ARM MAXIMUM MAY BE INSTALLED ON SHAFT.
2. DAMPER SHALL BE AS PER ALCOA STOCKBRIDGE OR APPROVED EQUAL WITH A MINIMUM WEIGHT OF 16 LBS.
3. DAMPER MAY BE EXTERNALLY MOUNTED IF EXPICITLY REQUESTED BY THE ENGINEER.
4. VIBRATION DAMPER AND PAD ARE REQUIRED ONLY IF POLE IS MOUNTED ON STRUCTURE SUBJECTED TO VIBRATION.
5. FOUNDATION SHALL BE PROVIDED WITH FOUR DEEPROOTED DRAIN GROVES, 1" IN DIAMETER.
6. PRECAST FOUNDATION MAY BE SUBSTITUTED FOR POURED FOUNDATION.
7. THE FOLLOWING APPLY TO PRECAST FOUNDATION:
A. FOUNDATION TO BE MONOLITHIC POUR OF 1:2:4 CONCRETE WITH STRENGTH OF 3500 PSI IN 7 DAYS.
B. TO ASSURE ADEQUATE BEARING SURFACE. THE FOUNDATION SHALL BE INSTALLED ON UNDISTURBED GROUND OR ON A 6" DEEP LAYER OF SAND.
C. BASE FLAT SHALL BE THOROUGHLY COMPACTED.
**NOTES:**

1. **FOR HAND HOLE DETAILS, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-003.**
2. **FOR POLE CAP, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-004.**
3. **SHAFT AND ARM SHALL BE HOT DIPPED GALVANIZED STEEL.**
4. **GROUNDING HARDWARES TO BE FURNISHED AND INSTALLED BY CONTRACTOR.**
   - **(1) LOOSE 5/16” HEAVY NUT (9/16” ACROSS FLATS)**
   - **(1) 5/16” K2C BURNDY GROUND STUD OR EQUAL**
   - **(1) BRONZE SPLIT LOCKWASHER**
   - **(1) 5/16” STD. WASHER**
5. **CONDUIT GROUNDING BUSHING SHALL BE IN LEVEL WITH THE BOTTOM OF HAND HOLE.**
6. **FOR MISALIGNED ANCHOR BOLTS, SLOTS MAY BE CUSTOMIZED BUT IT SHALL CLEAR STUDS AND EDGES OF PLATE BY A MINIMUM OF 1”**
7. **BEND THE 3” PLATE ENDS HORIZONTALLY IN DIRECTION OF LUMINAIRE WHEN CONCEIVABLE.**
8. **LAMPPOST PUT TO USE FOR ROADWAY LIGHTING DOES NOT REQUIRE LADDER REST, ITS HAND HOLE SHALL EITHER OPPOSING TRAFFIC OR AS ORDERED BY THE ENGINEER.**
NOTES:

1. FOR 8' ARM DETAILS AND ATTACHMENT, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-012.
2. FOR 4' ARM DETAILS AND ATTACHMENT, SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARM-004.
3. FOR 2' ARM DETAILS AND ATTACHMENT, SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARM-006.
4. THE HOLES AND WIRE WAY ON ONE SIDE OF THE SHAFT ARE FURNISHED WITH WEATHERPROOF PLUGS READILY REMOVABLE WITHOUT TOOLS OR TO REMAIN SECURELY IN PLACE IN FIELD.
5. FINISH FOR SHAFT AND ARM SHALL BE GRAY.
6. MEANS FOR INSTALLING 5/16" TAMPER RESISTANT SCREWS PROVIDED INSIDE SHAFT OPPOSITE HANDHOLE.
7. CONDUIT GROUNDING BUSHING SHALL BE IN LEVEL, 90° BOTTOM OF HANDHOLE.
8. WHEN HANDHOLE IS REQUIRED HANDHOLE SHALL EITHER FACE OPPOSING TRAFFIC OR LOCATED AS ORDERED BY THE ENGINEER.
9. MEANS TO SECURE AND RETAIN OPENED HANDHOLE COVER SHALL BE PROVIDED.
10. FOR ADDITIONAL DATA AND REQUIREMENTS, SEE LAMPPOST SPECIFICATION NO. 115.
CONSTRUCTION:
The lighting post shall be made of cast aluminum base and an aluminum round tapered shaft with a cast aluminum tenon. The base shall have a 14" dia. One (1) 3/8" wall access door in the base shall be secured with stainless steel hardware.

DIMENSIONS:
The post shall have a luminaire mounting height 12'. The cast base shall have a 14" dia. and be 13" in height.

LUMINAIRE MOUNTING:
A 3" dia. by 3" tall tenon with theft resistant feature shall be an integral part of the pole provided for post top mounting of luminaire.

INSTALLATION: (SEE DRAWING FOR DETAILS)
The pole shall have a 10 7/16" dia. bolt circle and requires a 3" anchor bolt projection.

FINISH:
The pole shall be finished with high gloss super durable polyester powder coat paint to be applied utilizing a multi-stage process that includes phosphate pretreatment, electrostatic powder application, and convection curing. Color to be specified.

CATALOG #: SAL-FM-12
COLOR: ADVISE

SCALE: 1-1/2" = 1'-0"
CONSTRUCTION:
The lighting post shall be made of cast aluminum base and an aluminum round tapered shaft with a cast aluminum tenon. The base shall have a 14" dia. and be 13" in height;

DIMENSIONS:
The post shall have an arm mounting height 12'-4", the cast base shall have a 14" dia. and be 13" in height;

LUMINAIRE MOUNTING:
A 2.375" dia. fitter shall be an integral part of the arm provided for side mounting of luminaires.

INSTALLATION (SEE DRAWING FOR DETAILS):
The pole shall have a 12'-4" dia. bolt circle and requires a 3" anchor bolt projection.

FINISH:
The pole shall be finished with high gloss super durable polyester powder coat to be applied utilizing a multistage process that includes phosphate pretreatment, electrostatic powder application, and convection curing, color to be specified.

(SINGLE ARM POST) CATALOG #: SALFM-12
COLOR: ADVISE

(TWIN ARM POST) CATALOG #: SALFM-12-BB24
COLOR: ADVISE

NEW YORK CITY DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C., N.Y. 11101
FLUSHING MEADOWS PARK ALUMINUM POST FOR COBRA HEAD LUMINAIRE
AS NOTED
S4955-C107.1

REVISION
DRAWING NO.
REV
DATE
BY
DESCRIPTION
SCALE
OLD DRAWING NO.
NEW DRAWING NO.
AS NOTED
LP-020

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
TAPERED OCTAGONAL SHAFT
#11 GA. x 12'-0" LONG
7.5" ACROSS CORNERS, BOTTOM
5.8" ACROSS CORNERS, TOP

LUMINAIRE ADAPTER, SEE DETAIL

HANDHOLE, SEE DETAILS

BASE PLATE, SEE DETAIL

LAMPOST ASSEMBLY
MAT. H.D. GALV. STEEL
SCALE: 1/2" = 1'-0"

SHIM DETAIL
R2 1/4"
R9/16"
(4) REQ'D PER LAMPPOST
(2) PCS - 1/16" THICK
(2) PCS - 1/8" THICK
MAT. H.D. GALV. STEEL
SCALE: 1 1/2" = 1'-0"

SECTION A-A

SECTION B-B
ELEVATION
DETAIL OF FLUSH TYPE HANDHOLE
MAT. H.D. GALV. STEEL
SCALE: 3" = 1'-0"

DETAIL OF SURFACE TYPE HANDHOLE
MAT. H.D. GALV. STEEL
SCALE: 3" = 1'-0"

NOTES:
1. LAMPOST SHALL BE H.D.G.
2. IF REQUIRED, PAINT LAMPOST WITH GALVANIZING PRIMER FOLLOWED BY 2 COATS OF SPECIFIED COLOR.
NOTE:
FOR DETAILS OF FOUNDATIONS FOR TYPE "B" LAMPPOST WITH EXTERNAL OR INTERNAL FLANGE, SEE NYC DOT STREET LIGHTING STANDARD DRAWING FDN-004.

GAUGES TO BE MARKED TO IDENTIFY THEIR PURPOSE GAUGES TO BE MADE OF HARDENED STEEL.

SCALE: 1" = 1'-0"
FILL RECESS WITH PUTTY BEFORE PAINTING (2 PLACES)

SECTION A-A
SCALE: 3" = 1'-0"

SECTION C-C
SCALE: 3" = 1'-0"

SECTION THRU DOOR OPENING ON LINE B-B
SHOWING TOP AND BOTTOM LEVEL
SCALE: 6" = 1'-0"

SECTION THRU TOP OF PEDESTAL & BOTTOM OF COLUMN SHOWING HORIZONTAL RIBS ON NECK AT LINE X-X
SCALE: 6" = 1'-0"

FRONT ELEVATION OF RECESS IN DOOR FOR 1/4"-20 SOCKET HEAD SCREW
SCALE: 3" = 1'-0"

BOSS TO HOLD DOOR
4 HOLES IN PEDESTAL TO BE TAPPED FOR 1/4"-20 X 3/4" STAINLESS STEEL MACHINE SCREW FOR HINGES. SCREWS SHALL BE 1/4"-20 X 3/4" LONG F.H. STAINLESS STEEL.

INSIDE LINE OF DOOR
TAP FOR 5/16" X 18 GROUND STUD
3/8" AMERICAN STANDARD HEXAGON SOCKET STAINLESS STEEL CUP POINTED SET SCREW, 2" LONG, 90° APART (2 REQD)
FURNISH ALLEN WRENCHERS, ONE FOR EACH 100 POSTS

DOOR TO BE RECESSED AND DRILLED 1/4"-20 SOCKET HEAD SCREW, 1" LONG, STAINLESS STEEL, TYPE 78-8

BOSS ON DOOR & PEDESTAL TO BE OF SUFFICIENT DEPTH TO ALLOW NO CLEAVER UNDERCUT. BOSS HOLE IN PEDESTAL TO HAVE 5/16" DIAMETER HOLE TO RECEIVE SCREW.

INSIDE LINE OF DOOR
TAP FOR 1/4"-20 SCREW

MACHINE SCREWS FURNISHED WITH SCREW HINGES SHALL BE UNDERCUT.

TAP FOR 5/16" X 18 GROUND STUD

BOSS FOR SCREW TO HOLD DOOR

FLUSH HINGE

BOSS ON DOOR & PEDESTAL TO BE OF SUFFICIENT DEPTH TO ALLOW NO CLEAVER UNDERCUT. BOSS HOLE IN PEDESTAL TO HAVE 5/16" DIAMETER HOLE TO RECEIVE SCREW.

MACHINE SCREWS FURNISHED WITH SCREW HINGES SHALL BE UNDERCUT.

BOSS FOR SCREW TO HOLD DOOR

BRASS OR BRONZE BUTT HINGE SHALL BE MORTISED IN PLACE. MACHINE SCREWS FURNISHED WITH BUTT HINGES SHALL BE 1/4"-20 X 3/4" LONG F.H. STAINLESS STEEL.

HORSEogne OUTLINE OF DOOR
TAP FOR 1/4"-20 SCREW

SECTION ON A-A
SCALE: 3" = 1'-0"

INSIDE LINE OF DOOR
TAP FOR 1/4"-20 SCREW

TAP FOR 5/16" X 18 GROUND STUD

RELATIVE LOCATION OF BOSS AT BACK OF POST

SECTION THRU DOOR OPENING SHOWING RELATIVE LOCATION OF BOSS AT BACK OF POST
SCALE: 3" = 1'-0"
NOTES:
1. HOUSING: CAST ALUMINUM 356 ALLOY
2. FINISH: POLYESTER POWDER COAT
3. CASTING COLOR: SILVER FED. COLOR #27178
4. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH.
5. ALL VISIBLE SCREWS MUST BE COUNTERSUNK OR FLUSH.
6. THE ARRAY OF LED MODULES SHALL ACHIEVE AN IES TYPE II MEDIUM LIGHT DISTRIBUTION.
NOTES:
1. ANTENNAS: CAST ALUMINUM 356 ALLOY
2. RODS/TUBES: ALUMINUM 6061 OR 6063
3. PHOTOCELL: UPWARD LOOKING (RIPLEY)
4. CASTING COLOR: SILVER FED. COLOR #27178
5. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH
6. ALL VISIBLE HARDWARE MUST BE COUNTERSUNK OR FLUSH.
DRIVER ENCLOSURE RATED IP65

12 AWG XLPE WIRE
30 FOOT BLACK

12 AWG XLPE WIRE
30 FOOT GREEN

12 AWG XLPE WIRE
30 FOOT WHITE

HARDWARE SHALL BE CAPTIVE TO DRIVER ENCLOSURE DOOR

SEE DETAIL C

SEE DETAIL A

N.T.B.

HARDWARE SHALL BE CAPTIVE TO NOSE DOOR

N.T.B.

VOLTAGE INDICATOR BRACKET

STRAIGHT VOLTAGE INDICATOR

COVER NOSE

EXPLODED VIEW

FIXTURE NOSE DETAIL A

N.T.B.

NOTE COVER: CAST ALUMINUM 356 ALLOY

1. VOLTAGE INDICATOR BRACKET: ALUMINUM

2. CASTINGS COLOR: SILVER FED. COLOR #27178

3. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH

4. ALL VISIBLE HARDWARE MUST BE COUNTERSUNK OR FLUSH

5. ALL VISIBLE SCREWS MUST BE MATCH LUMINAIRE FINISH

EXPLODED VIEW

VOLTAGE INDICATOR ASSEMBLY DETAIL D

N.T.B.
3.20" DIA.
7.68" DIA.
WIREWAY CLEARANCE = 3 INCH
POLE GAUGE = 0.18 INCH
POLE GROUND LOCATION

SECTION E-E
SCALE: 3" = 1'-0"

SECTION C-C
SCALE: 3" = 1'-0"

SECTION G-G
GROUND DETAIL
SCALE: 6" = 1'-0"

NOTES:
1. POLE: ROUND TAPERED STEEL ASTM A535 GRADE A.
2. POLE BASE PLATE: STEEL 1 INCH THICK ASTM A572 OR ASTM A36 GRADE STEEL
3. TENON: WELDED 2 3/8 INCH STEEL PIPE
4. FINISH: PRIMED AND POLYESTER POWDER COATED COLOR SILVER FED. #27178
5. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH.
6. ALL VISIBLE HARDWARE SHALL BE COUNTERSUNK OR FLUSH.
KEYED FEATURES IN SHROUD AND BASE TO HELP WITH PROPER INSTALLATION

1/4 - 20 HEX STAINLESS STEEL 2.50 INCH LENGTH

GROUND STRAP
6 AWG INSULATED WIRE
TIN PLATED COPPER

1/4 - 20 HEAD STAINLESS STEEL 0.50 INCH LENGTH

1 - 8 INCH HEX BOLTS A325 HDG

1 INCH HDG FLAT WASHERS

NOTES:
1. BASE AND SHROUD CASTING MATERIAL: ALUMINUM ALLOY 356
2. STANDARD PERM MOLD TOLERANCES APPLY UNLESS OTHERWISE NOTED.
3. CASTINGS COLOR: SILVER FED. COLOR #27178
4. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH.
5. ALL VISIBLE HARDWARE SHALL BE COUNTERSUNK OR FLUSH.

SHROUD 2 DETAILS
SCALE: 3/8" = 1'-0"

SHROUD MOUNT DETAIL
N.T.S.

1/4 - 20 HEX STAINLESS SLOTS 2.50 INCH LENGTH

0.06" MIN, WALL THICKNESS

SHROUD 1 DETAILS
SCALE: 1 1/2" = 1'-0"

SHROUD MOUNT DETAIL
N.T.S.

1/4 - 20 HEX STAINLESS STEEL 2.50 INCH LENGTH

0.06" MIN, WALL THICKNESS

POLE MOUNT DETAIL
N.T.S.

0.06" MIN, WALL THICKNESS

HOLE
0.16" MIN. WALL THICKNESS

GROOVE
0.74" X 0.33"

NEW YORK CITY

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I. C. N.Y. 11101

OLD DRAWING NO.

SCALE:

NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS,
2019-11-15

TYPE CITY LIGHT - SHROUD AND BASE DETAILS

AS NOTED

CLP-8

LP-023_8

REVISION

Drawing No.

Date

By
ARM ASSEMBLY 3D IMAGES

SEE DETAIL D

DETAIL D
FRONT VIEW W/DOOR

FRONT VIEW W/O DOOR

HINGED ACCESS DOOR DETAIL

2"x2" STAINLESS STEEL BUTT HINGE

5 5/16"

9"

DOOR SECURED WITH (1) 1/4"-20 FLAT HEAD SOCKET SECURITY MACHINE SCREW (18-8)

SECTION C-C

SECTION D-D

SECTION B-B

FILL WITH PUTTY BEFORE FINISH PAINTING

3/8"-16 TAP WELD

(2) 1/4"-20 S.S. FLAT HEAD MACHINE SCREWS

FLAT STOCK SCROLL WORK MECHANICALLY ATTACHED THEN WELDED TO COLLAR

5/8" (0.008) DIAMETER, 4 HOLES

1 1/2" (.033) DIAMETER

5/8" (.016) DIAMETER, 4 HOLES

2 1/4" (.057)

1 7/8" (.048)

MANUFACTURER IDENTIFICATION

3"

6" (0.152)

3 1/4" (0.862)

5/16" (0.008)

4 5/32" (0.122)

2 1/4" R

16 OR 6005-T9 S.S. ATTACHING BOLTS

3 DRILLED

5/16" (0.008)

SEE NOTE 6

ACORN LUMINARIES (BY OTHERS)

91°

3/4" (0.019) x 3/8" (0.010) BENT FLAT STOCK SCROLL

3/4" (0.019) x 1/4" (0.006) BENT FLAT STOCK SCROLL

DETAIL B2

SCALE: 3"=1'-0"

PEDESTRIAN ARM

SCALE: N.T.S.

NOTES:

1. CASTING SHALL BE DUCTILE IRON, AS PER NYC DOT STREET LIGHTING STANDARD DRAWINGS LP-029_1 AND LP-029_2 CASTING SHALL RECEIVE ONE COAT OF 5% RED OXIDE PRIMER.

2. CAST ALUMINUM ORNAMENTATION SHALL BE 356-T6 ALLOY. ALUMINUM PIPE, TUBING AND FLAT STOCK WORK SHALL BE 6061-T6 ALLOY.

3. ON SIDE OF BASE AT BOTTOM, THE LETTERS "N.Y. CITY" SHALL BE CAST APPROX. 1 1/2" HIGH.

4. DRILL AND TAP 5/16"-18 HOLE INSIDE OF BASE OPPOSITE DOOR FOR GROUND STUD FURNISHED BY OTHERS.

5. CONTRACTOR INSTALLING LAMPPOST SHALL APPLY ONE FINISH COAT OF PAINT PRIOR TO INSTALLATION, TYPE AND COLOR OF PAINT SHALL BE AS PER CONTRACT SPECIFICATIONS. AFTER INSTALLATION HE SHALL CAULK JOINT BETWEEN TUBING AND COLUMN WITH LEAD WOOL.

6. FOUR (4) 1"x30" FULLY GALVANIZED ANCHOR BOLTS WITH ONE GALVANIZED NUT AND ONE GALVANIZED WASHER PER BOLT SHALL BE FURNISHED FOR EACH LAMPPOST.

7. ALL HARDWARE TO BE STAINLESS STEEL.

8. FINIAL TOP SHALL BE CAPPED WITH WEATHER PROOF CAP IF PHOTO ELECTRIC CELL WILL NOT BE INSTALLED.

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C. N.Y.11101

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

TYPE "M" LAMPPOST (27'-7") AS NOTED

H-5260

LP-024_2
**NOTES:**

1. CASTING SHALL BE ASTM A536 DUCTILE IRON AS PER NYC DOT STREET LIGHTING STANDARD DRAWINGS LP-029_1 AND LP-029_2. CASTING SHALL RECEIVE ONE COAT OF 5% RED OXIDE PRIMER.

2. CAST ALUMINUM ORNAMENTATION SHALL BE 356-T6 ALLOY. ALUMINUM PIPE, TUBING AND FLAT STOCK WORK SHALL BE 6061-T6 ALLOY.

3. DRILL AND TAP 5/16"-18 HOLE INSIDE OF BASE OPPOSITE DOOR FOR GROUND STUD FURNISHED BY OTHERS.

4. CONTRACTOR INSTALLING LAMPPOST SHALL APPLY ONE FINISH COAT OF PAINT PRIOR TO INSTALLATION. TYPE AND COLOR OF PAINT SHALL BE AS PER CONTRACT SPECIFICATIONS. AFTER INSTALLATION HE SHALL CAULK JOINT BETWEEN TUBE AND COLUMN WITH LEAD WOOL.

5. FOUR (4) 1"X30" FULLY GALVANIZED ANCHOR BOLTS WITH ONE GALVANIZED NUT AND ONE GALVANIZED WASHER PER BOLT SHALL BE FURNISHED FOR EACH LAMPPOST.

6. ALL HARDWARE TO BE STAINLESS STEEL.
BISHOP CROOK LAMPPOST

1. Cast Reducer
   - 4 1/8" Dia.
   - 5 1/8" Dia.
   - 6 3/8" Dia.
   - 8 1/4" Dia.
   - 9 1/4" Dia.

2. Ornamental Collar
   - 6 1/4" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

3. Ornamental Sleeve
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

4. Ornamental Collar
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

5. Ornamental Sleeve
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

6. Ornamental Collar
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

7. Ornamental Sleeve
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

8. Ornamental Collar
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

9. Ornamental Sleeve
   - 6 3/8" Dia.
   - 8 3/8" Dia.
   - 10 1/8" Dia.
   - 12" Dia.

10. Ornamental Collar
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

11. Ornamental Sleeve
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

12. Ornamental Collar
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

13. Ornamental Sleeve
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

14. Ornamental Collar
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

15. Ornamental Sleeve
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

16. Ornamental Collar
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

17. Ornamental Sleeve
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

18. Ornamental Collar
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

19. Ornamental Sleeve
    - 6 3/8" Dia.
    - 8 3/8" Dia.
    - 10 1/8" Dia.
    - 12" Dia.

TOLERANCES

All Tolerances may be plus or minus one unit of the fraction in which the dimension is expressed. As an example, if a dimension is 8 1/4" the tolerance may be plus or minus one eight inch. Tolerances shall not be cumulative.
SCROLL DIMENSIONS

TOLERANCES

ALL TOLERANCES MAY BE PLUS OR MINUS ONE UNIT OF THE FRACTION IN WHICH THE DIMENSION IS EXPRESSED. AS AN EXAMPLE: IF A DIMENSION IS IN EIGHTHS THE TOLERANCE MAY BE PLUS OR MINUS ONE EIGHTH INCH. TOLERANCES SHALL NOT BE CUMULATIVE.
NOTES:
1. MATERIAL FOR PEDESTAL/COLUMN CASTING SHALL BE DUCTILE IRON, A536-80, PAINTED WITH ONE SHOP COAT OF 5% LEAD OXIDE PRIMER.
2. MATERIAL FOR CAPITAL CASTING SHALL BE ALUMINUM ALLOY 356-T6.
3. ALL TOLERANCES MAY BE PLUS OR MINUS ONE UNIT OF THE FRACTION IN WHICH THE DIMENSION IS EXPRESSED. AS AN EXAMPLE, IF A DIMENSION IS IN EIGHTHS, THE TOLERANCE MAY BE PLUS OR MINUS ONE EIGHTH. ONE EIGHTH INCH TOLERANCES SHALL NOT BE CUMULATIVE.
4. DOOR DETAIL IS FOR REFERENCE ONLY.

1. MATERIAL FOR PEDESTAL/COLUMN CASTING SHALL BE DUCTILE IRON, A536-80, PAINTED WITH ONE SHOP COAT OF 5% LEAD OXIDE PRIMER.
2. MATERIAL FOR CAPITAL CASTING SHALL BE ALUMINUM ALLOY 356-T6.
3. ALL TOLERANCES MAY BE PLUS OR MINUS ONE UNIT OF THE FRACTION IN WHICH THE DIMENSION IS EXPRESSED. AS AN EXAMPLE, IF A DIMENSION IS IN EIGHTHS, THE TOLERANCE MAY BE PLUS OR MINUS ONE EIGHTH. ONE EIGHTH INCH TOLERANCES SHALL NOT BE CUMULATIVE.
4. DOOR DETAIL IS FOR REFERENCE ONLY.
NOTES:

1. MATERIAL FOR PEDESTAL/COLUMN CASTING SHALL BE DUCTILE IRON, A536-80, PAINTED WITH ONE SHOP COAT OF 5% LEAD OXIDE PRIMER.

2. MATERIAL FOR CAPITAL CASTING SHALL BE ALUMINUM ALLOY 356-T6.

3. ALL TOLERANCES MAY BE PLUS OR MINUS ONE UNIT OF THE FRACTION IN WHICH THE DIMENSION IS EXPRESSED. AS AN EXAMPLE, IF A DIMENSION IS IN EIGHTHS THE TOLERANCE MAY BE PLUS OR MINUS ONE EIGHTH INCH. TOLERANCES SHALL NOT BE CUMULATIVE.

4. COLUMN DETAIL

5. CAPITAL DETAIL

6. SECTION A-A

7. SCALE: 3" = 1'-0"
CROSS ARM SPECIFICATIONS:

- STYLE: TYPE F
- HEIGHT: 3'-4" ±
- WIDTH: 30" ±
- MATERIAL: STEEL PIPE WITH BLACK STEEL BAR STOCK AND CAST DUCTILE IRON ORNAMENTATION
- FINISH: PRIME PAINT, SHERWIN WILLIAMS 2 PART RECOATABLE EPOXY PRIMER (B67H5 - PART G AND B67V5 - PART H)

LAMP POST SPECIFICATIONS:

- STYLE: TYPE F
- HEIGHT: 17'-10 1/2" DIAMETER
- MATERIAL: 1 PIECE, HEAVY WALL CAST IRON PER A.S.T.M. A 48-83 CLASS 30
- FINISH: PRIME PAINT, SHERWIN WILLIAMS 2 PART RECOATABLE EPOXY PRIMER (B67H5 - PART G AND B67V5 - PART H)
- ACCESS DOOR: LOCATED IN BASE
- GROUND STUD PROVISIONS: ON HILT AND 2" IN DIAMETER WALL OF BASE OPPOSITE
- ANCHOR BOLTS: 8 PIECE, A 1/4" X 2 1/2" GALLANDED WASH. (2 PER STUD), S: 1/4" GALVANIZED NUT AND 1 GALVANIZED WASHER PER BOLT
- BOLT PROJECTION: 3" REQUIRED

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
MODIFIED TWIN ARM "F" POLE

MODIFIED TWIN ARM "F" POLE WITH TRAFFIC SIGNAL HEAD

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO.
NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

MODIFIED TYPE F LAMPPOST, WITH TWIN ARMS AND TYPE F EXTENSION SHAFT FOR USE WITH TYPE M-2 TRAFFIC POST

DRAWING NO.

REVISION

N.T.S.
H-5296 LP-030_4

NEW YORK CITY
NOTES:
1. ALL MATERIAL FORMERLY CALLING FOR WROUGHT IRON, CHANGED TO GENUINE WROUGHT, OR COPPER BEARING STEEL AS MAY BE SPECIFIED.
2. SET SCREW THRU END CASTINGS NIPPLE CHANGED TO WROUGHT IRON.
3. ALL BOLTS & SCREWS STEEL CADMIUM PLATED, NUTS BRASS. CHANGED FROM INTEGRAL GENUINE WROUGHT IRON TO STEEL CADMIUM PLATED 1 1/4" NIPPLE, CORE.

NOTE: CHANGE CORE TO SUIT

SECTION D-D
SCALE: 6" = 1'-0"

NOTE: ALL BOLTS AND SCREWS TO BE STEEL, CADMIUM PLATED AND ALL NUTS TO BE BRASS.
1. All material formerly calling for wrought iron, changed to genuine wrought, or copper bearing steel as may be specified.
2. Set screw thru end castings nipple changed to wrought iron.
3. All bolts & screws: steel, cadmium plated, nuts brass, changes from integral. Genuine wrought iron to steel. Cadmium plated 1 1/4" nipple, core.

NOTES:

END CASTING TO BE SET ABSOLUTELY PLUMB TO CL. OF POST AND MEMBER TRIED OUT BEFORE LEAVING FACTORY.

NOTE: Change core to suit.

ALL MATERIAL FORMERLY CALLING FOR WROUGHT IRON, CHANGED TO GENUINE WROUGHT, OR COPPER BEARING STEEL AS MAY BE SPECIFIED.

SET SCREW THRU END CASTINGS NIPPLE CHANGED TO WROUGHT IRON.

ALL BOLTS & SCREWS STEEL CADMIUM PLATED, NUTS BRASS. CHANGED FROM INTEGRAL GENUINE WROUGHT IRON TO STEEL CADMIUM PLATED 1 1/4" NIPPLE, CORE.

NOTE: Change core to suit.

WIREWAY

NOTE: All bolts and screws to be steel, cadmium plated and all nuts to be brass.

END OF BRACKET ARM TO BE NICKED AS SHOWN.
NOTES:

1. LAMPPOST AND M-2 SHAFT EXTENSION SHALL BE HOT DIPPED GALVANIZED INSIDE AND OUTSIDE AFTER FABRICATION.


3. MATERIAL FOR POLE CAP AND BASE COVER SHALL BE CAST IRON, NYC SPECS, CLASS 25 OR HIGHER.

4. ALL HARDWARE (NUTS, BOLTS, WASHERS, ETC.) SHALL BE STAINLESS STEEL UNLESS OTHERWISE NOTED.

5. ALL WIREWAY HOLES BE DEBURR AND FREE OF SHARP EDGES.

6. TENON DETAIL IS FOR HORIZONTALLY MOUNTED LUMINAIRE.

CONTINUOUS WELD

TENON DETAIL

SEE DETAIL A

SEE DETAIL B

FLATBUSH AVENUE LAMPPost

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y.11101

NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

OLD DRAWING NO.

SCALE: 24" = 1'-0"

NEW YORK CITY

REVISED NO. DATE

REVISION

DESCRIPTION

N.T.S.

H-5245

LP-031_1
NOTES:
1. MATERIAL: LOW ALLOY HIGH STRENGTH STEEL, CORTEN OR EQUAL.
2. SHAFT EXT. TO BE HDG. AFTER FABRICATION.
3. PIERCE 1" DIA. HOLES IN EXTENSION TO MATCH 1/2" TAPPED HOLES IN POLE PLATE AND 1 1/4" DIA. HOLE IN PLATE.
4. FOR INSTALLATION INSTRUCTIONS SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-001.
FLATBUSH AVENUE LAMPOST

**FLATBUSH AVENUE LAMPOST**

**DEPARTMENT OF TRANSPORTATION**
**DIVISION OF STREET LIGHTING**
**34-02 QUEENS BLVD**
**L.I.C., N.Y. 11101**

**NEW YORK CITY**

**NYC MFR. 90**

**SCALE: 1" = 1'-0"**

**BASE PLATE**

**SCALE: 1" = 1'-0"**

**SHOF WITH HANDHOLE**

**SCALE: 1" = 1'-0"**

**BASE COVER**

**SCALE: 1" = 1'-0"**

**NOTE:**
- Diagram includes various measurements and dimensions relevant to the design of a lamppost.
- The lamppost includes features such as a base plate, a shaft with a handhole, pole caps, and a base cover.
- The materials used are specified, and the design includes considerations for welding, cutting, and hole drilling.

**DEPARTMENT OF TRANSPORTATION**
**DIVISION OF STREET LIGHTING**
**34-02 QUEENS BLVD**
**L.I.C., N.Y. 11101**

**NEW YORK CITY**

**NYC MFR. 90**

**SCALE: 1" = 1'-0"**

**BASE PLATE**

**SCALE: 1" = 1'-0"**

**SHOF WITH HANDHOLE**

**SCALE: 1" = 1'-0"**

**BASE COVER**

**SCALE: 1" = 1'-0"**

**NOTE:**
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- The lamppost includes features such as a base plate, a shaft with a handhole, pole caps, and a base cover.
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**34-02 QUEENS BLVD**
**L.I.C., N.Y. 11101**

**NEW YORK CITY**

**NYC MFR. 90**

**SCALE: 1" = 1'-0"**

**BASE PLATE**

**SCALE: 1" = 1'-0"**

**SHOF WITH HANDHOLE**

**SCALE: 1" = 1'-0"**

**BASE COVER**

**SCALE: 1" = 1'-0"**

**NOTE:**
- Diagram includes various measurements and dimensions relevant to the design of a lamppost.
- The lamppost includes features such as a base plate, a shaft with a handhole, pole caps, and a base cover.
- The materials used are specified, and the design includes considerations for welding, cutting, and hole drilling.

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**34-02 QUEENS BLVD**
**L.I.C., N.Y. 11101**

**NEW YORK CITY**

**NYC MFR. 90**

**SCALE: 1" = 1'-0"**

**BASE PLATE**

**SCALE: 1" = 1'-0"**

**SHOF WITH HANDHOLE**

**SCALE: 1" = 1'-0"**

**BASE COVER**

**SCALE: 1" = 1'-0"**

**NOTE:**
- Diagram includes various measurements and dimensions relevant to the design of a lamppost.
- The lamppost includes features such as a base plate, a shaft with a handhole, pole caps, and a base cover.
- The materials used are specified, and the design includes considerations for welding, cutting, and hole drilling.
1. Base shall be primed and painted. Finish shall be as specified.
2. All hardware (bolts, nuts, hinges, etc.) shall be stainless steel, 300 series.
3. Hinges shall be full height of door with clearance for top and bottom edges of door opening. 1/8" Stainless steel rivets, 5/32" diameter shall fasten doors to base.
4. Locking device shall be 1/2-13 button head socket screw, approximately 1-1/4" long, with dog point for aligning nut and retaining. 2 required per door.
5. As an alternate grounding method, drill and tap bottom plate for 5/16-18 thread connection.
6. The following hardware are required when installing the base: bronze split lock washer, 5/16" heavy nut ( supervisor, 5/16" to 3/8" standard washer.
7. Furnish one (1) Allen wrench with every 20 bases. Set of socket shall be 3/16", nominal. Nut across flats shall be 0.196" max., 0.193" min.
8. The following shall be stamped on the base: N.Y. City (1/2" letters), Year of Mfg - 200X (1/4" letters), Name of Mfr (3/16" letters).
**NOTES:**

1. "TBTA" LUMINAIRE SHALL BE "TEARDROP" LUMINAIRE (IES DISTRIBUTION TYPE III OR V) WITH SHIELD.
2. SHAFT EXTENSION, ARM, BRACE AND MOUNTING PLATES SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
3. GASKET FOR P.E.C. MOUNTING IS REQUIRED.

**MATERIALS:**

- **SHAFT EXTENSION:** STEEL, #11 GA.
- **M2 POLE CAP:** CAST STEEL, 3/8" THICKNESS
- **BOLT, SCREW, NUT, WASHER, HINGE:** STAINLESS STEEL

**ARM SIZES:**

- SINGLE AND TWIN ARM

**LUMINAIRES:**

"TBTA" LUMINAIRE (150W MAX LED OR AS PER CONTRACT'S STREET LIGHTING PLANS)

**DRAWING NO.**

J-5310-B

**REVISED BY**

LP-034

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF STREET LIGHTING

34-02 QUEENS BLVD
L.I.C., N.Y. 11101

**OLD DRAWING NO.**

LP-033

**DRAWING NO.**

LP-034

**SCALE:**

1 1/2" = 1'-0"
STREET LIGHTING ARMS DRAWINGS
8'-0" TAPERED STEEL SINGLE MEMBER ARM FOR FABRICATED STEEL POLE

E-3768

ARM-001
ASSEMBLY OF ARM TO SHAFT

NOTES:

1. ARM, STRAP & ARM PIPE TO BE HOT DIPPED GALV. AFTER ASSEMBLY.

2. FURNISH TWO (2) 1/2"-13x1 1/2" LONG AND ONE (1) 1/2"-13x1" LONG HEX.
   HD. CAP SCREWS AND THREE (3) LOCK WASHERS ALL STAINLESS STEEL, WITH EACH ARM.

SCALE: 1"=1'-0"
9/16"x5/8" SLOTTED HOLES TO MATCH HOLES IN ARM.

9/16"x1 1/4" HOLES IN ARM.

1 1/4" DIAM. ROUND HOLE IN PIPE, SMOOTH EDGES

CONT. FILLET WELD (TYPICAL)

IDENTIFICATION (XX REPRESENTS MANUFACTURING YEAR)

NOTE:
FURNISH TWO (2) 1/2"x1 1/2" LONG AND ONE (1) 1/2"x1" LONG STAINLESS STEEL CAP SCREWS WITH LOCKWASHERS, FOR EA. ARM. STAINLESS STEEL SHALL BE TYPE 18-8, 303 SERIES.
NOTES:
1. THRU BOLT IS 5/8"-11 NC-2, 14" LONG SQUARE HEAD BOLT WITH NUT AND WASHER - ONE (1) REQUIRED WITH EACH BRACKET.
2. LAG SCREWS ARE 1/2" DIAMETER, 4" LONG, FETTER DRIVE LAG SCREW - 4 REQUIRED WITH EACH BRACKET.
3. TWIST LOCK P.E.C. RECEPTACLE TO BE FURNISHED WITH BRACKET.
4. CAST ALUMINUM ORNAMENTATION SHALL BE 356-T6 ALLOY. ALUMINUM PIPE AND BAR SHALL BE 6061-T6 ALLOY.
5. BRACKET SHALL BE PRIMED AND PAINTED AT FACTORY. COLOR TO BE DETERMINED BY ENGINEER.
6. UNLESS OTHERWISE NOTED, ALL HARDWARE TO BE STAINLESS STEEL.
7. ALL PARTS SHALL BE WELDED. NO FASTENERS (SCREWS, BOLTS, ETC.) SHALL BE USED TO ASSEMBLE BRACKET.
BRACE SIZE

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<tr>
<th>A</th>
<th>B</th>
<th>C1</th>
<th>C2</th>
<th>D1</th>
<th>D2</th>
<th>E</th>
<th>F</th>
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<th>R1</th>
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<tbody>
<tr>
<td>4' ARM</td>
<td>20&quot;</td>
<td>10 1/8&quot;</td>
<td>2 3/4&quot;</td>
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<td>7 1/16&quot;</td>
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<td>8' ARM</td>
<td>40&quot;</td>
<td>15 3/4&quot;</td>
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<td>12 1/2&quot;</td>
<td>33 1/2&quot;</td>
<td>8 7/16&quot;</td>
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NOTES:
1. "TBTA" LUMINAIRE SHALL BE "TEARDROP" LUMINAIRE (IES DISTRIBUTION TYPE III OR V) WITH SHIELD.
2. ARM, BRACE AND MOUNTING PLATES SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED.
3. GASKET FOR P.E.C. MOUNTING IS REQUIRED.

MATERIALS:
MOUNTING PLATES, BRACE
BOLT, SCREW, NUT, WASHER, HINGE
STAINLESS STEEL

LUMINAIRES
"TBTA" LUMINAIRE (AS PER CONTRACT'S STREET LIGHTING PLANS)

REVISION
DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C., N.Y. 11101

NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
LUMINAIRE DRAWINGS
NOTES:
1. LED COBRAHEAD LUMINAIRE SHALL BE AS PER NYC DOT STREET LIGHTING STANDARD SPECIFICATIONS NUMBER 495.
2. PHOTOCCELL SHALL BE WITH SURGE PROTECTION AS PER NYC DOT STREET LIGHTING STANDARD SPECIFICATIONS NUMBER 504.
3. LUMINAIRE SHALL BE MOUNTED ON A 1-1/2" - 2" DIA. ARM WITH CLAMPS.
NOTE:
1. REFER TO SPECIFICATION NO. 472 FOR ADDITIONAL DATA AND REQUIREMENTS.
2. LUMINAIRE DESIGN COULD VARY AS PER APPROVED MANUFACTURER.
OPTION 1

OPTION 2

WITH 7 PIN PHOTOCELL RECEPTACLE AND SHARING CAP

NOTE:
1. REFER TO SPECIFICATION NO. 465 FOR ADDITIONAL DATA & REQUIREMENTS,
2. LUMINAIRE DESIGN COULD VARY AS PER APPROVED MANUFACTURER,
NOTE:
1. LUMINAIRE DESIGN COULD VARY AS APPROVED MANUFACTURER.
NOTE:
1. ALL NUTS, BOLTS & WASHERS TO BE STAINLESS STEEL EXCEPT WHERE NOTED.
2. OR AS APPROVED MANUFACTURE DRAWINGS.
3. REFER TO SPECIFICATION NO. 465 FOR ADDITIONAL DATA & REQUIREMENTS.
T-STYLE TO ACCEPT A 2 7/8" O.D. TENON X 2 1/2" LONG

(3) 3/8" X 3/4" LONG STAINLESS STEEL CUT-TIP SET SCREWS @ 120° APART

OPTIONAL

TRANSPARENT ACRYLIC PANELS

POLE ELEVATION

SCALE: 3" = 1'-0"

(2) 3/8" X 3/4" LONG STAINLESS STEEL CUT-TIP SET SCREWS @ 120° APART

POLE ELEVATION

TRANS. ACRYLIC PANELS

OPTIONAL

FINIAL

3'-0 1/16" 1'-2 11/16" 1'-7 1/2"

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C., N.Y. 11101

NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
FOUNDATION DRAWINGS
NOTES:

1. THREADS FOR ANCHOR BOLTS, STUDS AND COUPLING SHALL BE 1"-6 B.N.C.

2. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS. ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALVANIZED STEEL PIPE CAP.

NOTE: ON ONE WAY STREETS, DOOR OPENING IN BASE SHALL ALLOW WORKER TO FACE APPROACHING TRAFFIC, ON WIDE MALLS OF HIGHWAY, DOOR OPENING IN BASE SHALL ALLOW WORKER TO FACE APPROACHING TRAFFIC AT NEAR LANE.
15" DIA. ANCHOR BOLT CIRCLE
FOR LAMPPOST ON CITY STREETS

18" FOR GROUP CONTROL

NOTES:

1. FOR EXISTING FOUNDATION WITH PRECAST CONCRETE CAP, REMOVE CAP AND REMOVE CONCRETE TO 2" BELOW SIDEWALK LEVEL. INSTALL BISHOP'S CROOK POST DIRECTLY ON FOUNDATION. RESTORE AREA AROUND LAMPPOST. IF STUDS ARE TOO LONG OR TOO SHORT, REMOVE EXISTING STUD AND INSTALL PROPER SIZE.

2. FOR EXISTING FOUNDATION WITHOUT PRECAST CONCRETE CAP, REMOVE TOP PORTION OF FOUNDATION TO A DEPTH OF 7" OR TO THE LEVEL JUST BELOW THE THREADS ON THE ANCHOR ROD. REMOVE COUPLING AND STUD. CUT 2" FROM THE THREADED PART OF THE ANCHOR ROD. RE-INSTALL COUPLING AND STUD. POUR CONCRETE TO A LEVEL 2" BELOW THE SIDEWALK GRADE. INSTALL BISHOP'S CROOK POST. RESTORE AREA AROUND LAMPPOST.

3. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS. ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY 1/2" GALV. STEEL PIPE CAP.

CONDUIT TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

BISHOP'S CROOK LAMPPOST

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

POURED CONCRETE FOUNDATION

CLASS 1 CONCRETE (1:2:4), MINIMUM 3000 PSI

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

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1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

4'-0" 2'-0" 32" ± 1/4"

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7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

1 1/2" CONDUIT FOR CITY DISTRIBUTION OR 2" CONDUIT FOR UTILITY HOOK-UP (H.D. GALV. STEEL) OR AS PER CONTRACT DRAWINGS

1" MALLEABLE IRON BOLT COUPLING 3" LONG

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.

45.0°

TOP OF SIDEWALK

CURB

INSIDE FACE OF CURB (TYP.)

OUTSIDE FACE OF CURB (TYP.)

FACE OF SIDEWALK CURB (TYP.)

UP ON ANCHOR BOLT CIRCLE

OUTLINE OF BISHOP'S CROOK LAMPPOST OR TYPE "M" LAMPPOST

CONDUITS TO EXTEND TO BOTTOM OF DOOR.

CONDUIT MUST HAVE A COUPLING

CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN

1" H.D. GALV. STEEL STUD
7" LONG FULLY THREADED WITH HEX NUT AND LUGS.
1. GND BUSHING TO BE Furnished and installed by contractor installing lamppost.

2. All new foundations shall have a minimum of two at 180 degree conduit elbows, one for service and one as a spare. Spade conduit elbow shall be closed both ends, in the transformer base by durable cover at the grounding bushing, and under the curb by H.D. Galvanized steel pipe cap.

3. Bolt circle shall be 15" for TBTA pole and square pole, bolt circle shall be 15" for Davit pole, 35' pole and ADNY pole.

4. Precast cap shall be 2x2 square for Davit and 35' poles, precast cap shall be 23" dia. for ADNY pole, precast cap shall be rectangle 28"x22" for TBTA pole.
NOTES:

1. CONDUIT INCORPORATED IN FOUNDATION TO BE HOT DIPPED GALV. (OR AS CALLED FOR IN PLANS) AND EQUIPPED WITH COUPLING AND BRONZE CONDUIT GROUNDING BUSHING, OZ. TYPE GB OR EQUAL.

2. CONTRACTOR TO INSTALL ONE SPARE CONDUIT BEND WITH BRONZE GROUNDING BUSHING IN ALL NEW FOUNDATIONS (IF CALLED FOR IN PLANS).

3. THREADS FOR ANCHOR BOLTS, STUDS AND COUPLING SHALL BE 1" - 8 N.C. 2.

4. ALL POLES ON GROUP CONTROL SHALL HAVE 1 1/2" H.D.G. CONDUIT UNLESS OTHERWISE INDICATED ON PLANS.
1. All new foundations shall have a minimum of two at 180 degree conduit elbows, one for service and one as a spare. Spare conduit elbow shall be closed both ends, by the transformer base by durable cover at the grounding bushing, and under the curb by H.D. galv. steel pipe cap.
- Cone Base
- Concrete Barrier Foundation
- Aluminum Lamp Post

**NOTES:**

1. **If the female coupling will not be encased in concrete at a depth of 1'-6" below the pavement use a 4" hole as in the symmetrical detail.**

2. **This drawing is for use with standard 25' Aluminum Lamp Post without transformer base as per NYC DOT Street Lighting Standard Drawing (2020).**

3. **For use with other lamp post types a detailed structural design of the foundation recesses shall be submitted to the department for approval. The licensed engineer's seal shall appear on all submissions. The following note shall appear on all prints: "Contractor shall notify Division of Street Lighting Inspection at (212) 839-3322 approximately 72 hours before commencing work."**

**CONCRETE BARRIER STANDARD ALUMINUM FOUNDATION**

**SCALE:** 1" = 1'-0"
**Plan Outline of Type 8S Shoe Base**

- **Precast Concrete Cap**
- **Hand Hole Side**
- **Inside Face of Curb**

**Notes:**

1. Ground Bushing furnished and installed by contractor installing Lamp Post.
2. All new foundations shall have a minimum of two 90 degree conduit elbows, one for service and on as a spare. Spur conduit elbow shall be closed both ends. In the transformer base by durable cover at the grounding bushing, and under the curb by H.D. galvanized steel pipe cap.

**Drawings:**

- **Type 8S Lamp Post Shaft Section A-A**
- **Type 8S Lamp Post**
- **Foundation for Type 8S Lamp Post Without Transformer Base**

**Drawing Information:**

- **New York City DOT Street Lighting Standard Drawings, 2019-11-13**
- **FDN-007**
- **E-3691**
NOTES:
1. THE CONTRACTOR SHALL CAP CONDUIT WHERE FOUNDATION IS INSTALLED.
   FOR LAMPPOST INSTALLATION BY OTHERS, GROUNDING BUSHING SHALL BE
   FURNISHED AND INSTALLED BY CONTRACTOR INSTALLING LAMPPOST.
2. THREADS FOR ANCHOR BOLTS, STUDS, AND COUPLINGS SHALL BE 1 1/4" NC7.
3. ON ONE WAY STREETS, DOOR OPENING IN BASE SHALL ALLOW WORKER TO
   FACE APPROACHING TRAFFIC. ON WIDE MALLS OF HIGHWAYS, DOOR
   OPENING SHALL ALLOW WORKER TO FACE APPROACHING TRAFFIC IN NEAR
   LANE.
4. THIS FOUNDATION IS NOT FOR STANDARD USE AND SHALL BE CALLED FOR AS
   PER CONTRACT PLANS.
5. THIS FOUNDATION IS FOR USE WITH LAMPPOST TYPE 25'-0" ALUMINUM OR
   STANDARD 8S STEEL BOTH WITH TRANSFORMER BASE.
6. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE
   CONDUIT ELBOWS. ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT
   ELBOW SHALL BE CLOSED BOTH ENDS IN THE TRANSFORMER BASE BY
   DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY
   H.D. GALV. STEEL PIPE CAP.
MINIMUM COVER BELOW CONDUIT SHALL BE 3". CONDUIT TO BE AS LOW AS POSSIBLE, BUT NOT TO EXCEED 24".

DEPTH OF FOUNDATION = D

2'-0" - 2'-5"
3'-0" - 3'-5"
3'-6" - 3'-9"
4'-0"

NOTES:

1. CONDUIT IS TO BE INITIALLY CAPPED AT BOTH ENDS BY CONTRACTOR INSTALLING FOUNDATION.

2. GROUNDING BUSHING SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR INSTALLING LAMPPOST.

3. FOR FOUNDATION DEPTHS GREATER THAN 3'-9", SEE NYC DOT STREET LIGHTING STANDARD DRAWING FDN-001.

4. THIS DRAWING IS FOR USE WITH TYPE 8S LAMPPOST WITH A TRANSFORMER BASE. FOR USE WITH OTHER LAMPPOST TYPES, A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK.

5. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS, ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALVANIZED STEEL PIPE CAP.

6. FOR ALTERNATIVE PRECAST FOUNDATION REFERENCE TO NYC DOT STREET LIGHTING STANDARD DRAWING FDN-024.
NOTES:

1. DRILL CLEAR HOLES FOR 1 1/2" BOLTS AND WELD 1 1/2" BOLTS TO BOTTOM PLATE ON 25 1/2" DIAMETER BOLT CIRCLE, SYMMETRICAL ABOUT PLATE CENTER - LINES. BOLT LENGTH TO BE DETERMINED BY SLAB THICKNESS.

2. DRILL CLEAR HOLES IN TOP PLATE TO MATCH 1 1/2" BOLTS IN BOTTOM PLATE, SYMMETRICAL ABOUT PLATE CENTER - LINES.

3. DRILL CLEAR HOLES FOR 1" STUDS AND WELD 1" NUTS TO TOP PLATE ON 15" DIAMETER BOLT CIRCLE, SYMMETRICAL ABOUT PLATE CENTER - LINES.

4. THIS DRAWING APPLIES TO NEW CONSTRUCTION.

5. DIMENSIONAL REQUIREMENTS FOR STANDARD TRANSFORMER BASE INSTALLATION ARE SHOWN.

6. STRUCTURAL REQUIREMENTS SHALL COMPLY WITH AASHTO SPECIFICATIONS.

7. THIS DRAWING IS FOR THE USE OF "TYPE 8S" STEEL LAMPPOST WITH TRANSFORMER BASE AND BOLT CIRCLE OF 15".

8. FOR USE WITH OTHER LAMPPOST TYPES, A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."
NOTES:
1. FOUNDATION AND PAD TO BE MONOLITHIC.
2. CONCRETE TO ATTAIN A MINIMUM STRENGTH OF 3500 PSI IN 7 DAYS OR 4000 PSI IN 28 DAYS.
3. TO ASSURE ADEQUATE BEARING SURFACE, THE FOUNDATION SHALL BE INSTALLED ON UNDISTURBED GROUND OR ON A 6" DEEP LAYER OF SAND.
4. BACKFILL SHALL BE THOROUGHLY COMPACTED.
5. BACKFILL WITHIN FOUNDATION SHALL BE COMPACTED TO 1" FROM TOP, 1" SPACE WITH CEMENT (O.P.) FOR DRAINAGE.
6. BRONZE GROUNDING BUSHING FURNISHED AND INSTALLED BY CONTRACTOR INSTALLING LAMPPOST.
7. AS AN OPTION, A 15" PAD MAY BE UTILIZED WITHOUT A SECOND WIRE MESH, DEVELOPED DEPTH 3".
8. FOUNDATION TO BE UTILIZED ONLY ON ARTERIAL HIGHWAY 300 FEET LONG OTHERWISE SPECIFIED AND/OR EXPRESLY INDICATED ON PLANS.
9. SET BACK DIMENSION IS TO BE UTILIZED ONLY IF FOUNDATION IS EXPLICITLY SPECIFIED ON CITY ROADWAYS.
10. BOLT CIRCLE OF 15" IS FOR USE OF TRANSFORMER BASE.
11. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO 1/2" STEEL ANCHOR BOLTS, LONG ENOUGH TO DEVELOP FULLY THREADED IN THE TRANSFORMER BASE. CEMENT COVER SHALL BE CURBED BOTH ENDS IN THE TRANSFORMER BASE BY CURVED COVER OVER THE GROUNDING BUSHING AND UNDER THE CURB BY [HOLE].
12. FOR ALTERNATIVE PRECAST FOUNDATION REFER TO NYC DOT STREET LIGHTING STANDARD DRAWING FDN-024.
NOTES:

1. **FINISH**: HOT DIPPED GALVANIZED PER ASTM-A153 (LATEST REVISION).

2. BASE PLATE TO BE PERPENDICULAR TO THE SHAFT AXIS (±1") AND HOLE CENTERLINE CONCENTRIC (±0.188") TO SHAFT AXIS.

3. STENCIL: MIN. 1/2" LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.

4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (±0.125") AND IN LINE (±2")

5. FLAME CUT TWO SLOTS IN SHAFT PERPENDICULAR TO THE BASEPLATE.

6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.

7. FLAMECUTTING OF IRRGULARITIES IS PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 1/32" IN. BELOW NOMINAL SURFACE LEVEL. (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32" ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.

8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.

9. ALL MATERIAL TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:

   BASEPLATE: ASTM A36 (LATEST REVISION) STRUCTURAL STEEL SHAFT: ASTM A252 (LATEST REVISION) GRADE 2 STEEL PIPE PILES.

   ALTERNATE MATERIAL: ASTM A53 (LATEST REVISION) TYPE E OR S, GRADE B, STEEL PIPE OR ASTM A500 (LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBING.

   HELIX: ASTM A635 (LATEST REVISION) 3/8" THICK HOT ROLLED STEEL PLATE OR COIL.

   PILOT POINT: ASTM A575 (LATEST REVISION) 1-1/4" DIA. HOT ROLLED STEEL BAR.

   BOLTS: CARRIAGE BOLT 3/4-10UNC--2A PER ANSI B18.5, SAE J429 GRADE 5.


10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND THE JULIAN DATE CODE IN 1/4" LETTERS.

11. BASEPLATE PERMANENTLY MARKED TO INDICATE CABLEWAY OPENING IN SHAFT.

12. FOUNDATION SHALL BE AS PER "HUBBELL POWER SYSTEMS" CAT. NO. 1112/1702, OR APPROVED EQUAL.
6" DIA. CENTER HOLE

(4) 0.75" X 3.5" GALV. CARRIAGE BOLT
(4) 0.75" NUTS
(4) ROUND WASHERS
(4) RETAINING WASHERS

8.5" TO 17" DIA. BOLT CIRCLE

6.63" OUTSIDE DIA.
0.28" WALL THICKNESS

12" DIA. HELIX

ALL RADIAL SECTIONS
NORMAL TO AXIS ±3°

NOTES:

1. FINISH: HOT DIPPED GALVANIZED PER ASTM-A153 (LATEST REVISION).
2. BASE PLATE TO BE PERPENDICULAR TO THE SHAFT AXIS (± 1") AND HOLE CENTERLINE CONCENTRIC (±0.188") TO SHAFT AXIS.
3. STENCIL MIN. 1/2" LETTERS MANUFACTURER'S NUMBER AFTER GALVANIZING.
4. PILOT POINT AND SHAFT AXES TO BE CONCENTRIC (±0.125") AND IN LINE (±2")
5. FLAME CUT TWO SLOTS IN SHAFT PERPENDICULAR TO THE BASEPLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASEPLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAMECUTTING OF IRRGULARITIES IS PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 3/32" BELOW NOMINAL SURFACE LEVEL. (2) PEAKS OR POSITIVE IRRGULARITIES NOT TO EXCEED 1/32 IN. ABOVE NOMINAL SURFACE LEVEL OR INTERSECTIONS OF NOMINAL SURFACES.
8. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
9. ALL MATERIAL TO BE NEW, UNUSED AND MILL TRACEABLE MEETING THE FOLLOWING SPECIFICATIONS:
   BASEPLATE: ASTM A36 (LATEST REVISION) STRUCTURAL STEEL
   SHAFT: ASTM A252 (LATEST REVISION) GRADE 2 STEEL PIPE PILES.
   ALTERNATE MATERIAL: ASTM A653 (LATEST REVISION) TYPE E OR S,
   GRADE B, STEEL PIPE OR ASTM A500 (LATEST REVISION) GRADE B,
   STRUCTURAL STEEL TUBING,
   HELIX: ASTM A653 (LATEST REVISION) 3/8" THICK HOT ROLLED STEEL
   PLATE OR COIL.
   PILOT POINT: ASTM A575 (LATEST REVISION) 1-1/4" DIA. HOT ROLLED STEEL BAR.
10. BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND THE JULIAN DATE CODE IN 1/4" LETTERS.
11. BASEPLATE PERMANENTLY MARKED TO INDICATE CABLEWAY OPENING IN SHAFT.
12. FOUNDATION SHALL BE AS PER "HUBBELL POWER SYSTEMS" CAT. NO. T1121700,

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY DOT
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

5'-0" 12" 12" 3/4" 2.5" SEE NOTE 5
0.38" 3" PITCH

ISOMETRIC VIEW

SIDE VIEW OF TRUE HELICAL FORM
HELIX MUST BE FORMED BY MATCHING METAL DIE

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

5'-0" 12" 12" 3/4" 2.5" SEE NOTE 5
0.38" 3" PITCH

ISOMETRIC VIEW
NOTES:

1. THE SAME METHOD OF INSTALLATION AND CONSTRUCTION SHALL BE FOLLOWED WHERE THE PLACING OF ONLY TWO FENDERS ON ONE SIDE OF AN EXISTING LAMPPOST IS REQUIRED.

2. CONCRETE MIX FOR LAMPPOST FOUNDATION SHALL BE 1:2:4.

3. FOLLOWING DETAILS SHALL CONFORM TO STANDARD DRAWING FOR SUBJECT LAMPPOST'S FOUNDATION:
   A. BOLT DIAMETER, LENGTH AND BOLT CIRCLE
   B. STUD LENGTH
   C. LAMPPOST FOUNDATION DETAILS.

4. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS, ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALVANIZED STEEL PIPE CAP.

5. CONDUIT SHALL BE UP TO THE BOTTOM OF LAMPPOST HAND HOLE.
NOTES:

1. CONDUIT SHALL BE UP TO THE BOTTOM OF LAMPPOST HAND HOLE.

2. FOLLOWING DETAILS SHALL CONFORM TO STANDARD DRAWING FOR SUBJECT LAMPPOST'S FOUNDATION:
   A. BOLT DIAMETER, LENGTH AND BOLT CIRCLE
   B. STUD LENGTH
   C. LAMPPOST FOUNDATION DETAILS.

3. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS, ONE FOR SERVICE AND ONE AS A SPARE. SPARKS CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY HD GALVANIZED STEEL, PIPE CAP.
5'-0" DIA. 10 GA. STEEL DRUM WITH WELDED SEAM

15" DIA. BOLT CIRCLE

CURB

CURB LINE

PLAN

CURB

SECTION A-A

WHEEL GUARD FOR LAMPPOST

NOTE:
1. CONCRETE MIXTURE TO BE 1:2:4 ALTERNATE "B" SHALL BE USED IN AREAS SUBJECT TO HEAVY TRUCK TRAFFIC.
2. LAMPPOST FOUNDATION DETAILS SHALL CONFORM TO NYC DOT STREET LIGHTING STANDARD DRAWING FDN-001.
NOTES:

1. BOLT CIRCLE OF 15" IS FOR USE OF TRANSFORMER BASE.

2. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS, ONE FOR SERVICE AND ONE AS A SPARE; SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY Hd. Galv Steel Pipe.

3. THIS DRAWING IS FOR USE WITH TYPE 8S LAMPPOST WITH A TRANSFORMER BASE. FOR USE WITH OTHER LAMPPOST TYPES A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION DEPTH SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."
OUTLINE OF CAP

EXISTING FOUNDATION

EXISTING SERVICE CONDUIT

CURB

DIA. 15"

BOLT CIRCLE

90°

1" DIA. ANCHOR REQUIRED

SEE ELEVATION

PLAN

ELEVATION

WHERE TOP OF EXISTING FOUNDATION IS MORE THAN 2" BELOW WALK, IT SHALL BE BUILT UP WITH NEW CONCRETE TO 2" BELOW WALK. LENGTH OF 1" BOLT SHALL BE INCREASED CORRESPONDINGLY.

FILL HOLE WITH CONCRETE TO 2" BELOW TOP OF SIDEWALK WHERE REQUIRED.

PRECAST CONCRETE FOUNDATION CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING FDN-001 OR CAST IRON FOUNDATION CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING FDN-029. TOP OF CAP TO BE 1" ABOVE TOP OF SIDEWALK.

EXISTING FOUNDATION

FILL HOLE WITH CONCRETE TO 2" BELOW TOP OF SIDEWALK WHERE REQUIRED.

METHOD OF INSTALLING ANCHOR BOLTS IN CONCRETE FOUNDATION

EXPANSION TYPE OR ADHESIVE TYPE-AS MANUFACTURED BY KELKEN-GOLD INC., OR EQUAL, IS AN APPROVED ADHESIVE TYPE ANCHOR IF INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

WHEN MODIFYING SPODE TYPE FOUNDATION, THE 1 1/2" BOLT SHALL BE REMOVED FLUSH WITH TOP OF HOLE IN FOUNDATION.

NOTE "A"

KEL-BOND "LEFTY" STUD ANCHOR WITH KELIGROUT, AS MANUFACTURED BY KELKEN-GOLD INC., OR EQUAL, AND APPROVED ADHESIVE TYPE-AS MANUFACTURED BY MANUFACTURER'S INSTRUCTIONS, ROD SHALL BE HDG. STEEL.

NOTE "B"

1" THREADED ROD WITH HILTI CORP. C-100 RESIN AND 1" THREADED ROD WITH KELKEN-GOLD INC., KEL-BOND, OR EQUAL, AND APPROVED ADHESIVE TYPE-AS MANUFACTURED BY MANUFACTURER'S INSTRUCTIONS, ROD SHALL BE HDG. STEEL.

NOTE "C"

FOR USE WITH OTHER LAMPPOST Types, A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS, THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK.

NOTE "A"

KEL-BOND "LEFTY" STUD ANCHOR WITH KELIGROUT, AS MANUFACTURED BY KELKEN-GOLD INC., OR EQUAL, IS AN APPROVED ADHESIVE TYPE ANCHOR IF INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

WHEN MODIFYING SPODE TYPE FOUNDATION, THE 1 1/2" BOLT SHALL BE REMOVED FLUSH WITH TOP OF HOLE IN FOUNDATION.

NOTE "A"

KEL-BOND "LEFTY" STUD ANCHOR WITH KELIGROUT, AS MANUFACTURED BY KELKEN-GOLD INC., OR EQUAL, AND APPROVED ADHESIVE TYPE-AS MANUFACTURED BY MANUFACTURER'S INSTRUCTIONS, ROD SHALL BE HDG. STEEL.

NOTE "B"

1" THREADED ROD WITH HILTI CORP. C-100 RESIN AND 1" THREADED ROD WITH KELKEN-GOLD INC., KEL-BOND, OR EQUAL, AND APPROVED ADHESIVE TYPE-AS MANUFACTURED BY MANUFACTURER'S INSTRUCTIONS, ROD SHALL BE HDG. STEEL.
NOTES:
1. THIS FOUNDATION IS ONLY FOR USE WITH 50' STEEL LAMPOST AS PER NYC DOT STREET LIGHTING STANDARD DRAWING REF-001.
2. PRECAST FOUNDATION MAY BE SUBSTITUTED FOR POURED FOUNDATION.
3. THE FOLLOWING APPLY TO PRECAST FOUNDATION:
   a) FOUNDATION TO BE MONOLITHIC POUR OF 1:2:4 CONCRETE WITH STRENGTH OF 3500 PSI IN 7 DAYS.
   b) TO ASSURE ADEQUATE BEARING SURFACE, THE FOUNDATION SHALL BE INSTALLED ON UNDISTURBED GROUND OR ON A 6" DEEP LAYER OF SAND.
   c) BACKFILL SHALL BE THOROUGHLY COMPACTED.
4. FOUNDATION FOR AN INDIVIDUALLY SERVICED LAMPOST SHALL HAVE A MINIMUM OF TWO 2" CONDUIT ELBOWS, ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED BOTH ENDS, IN THE TRANSFORMER BASE BY A DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY A H.D. GALV. STEEL PIPE CAP.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

FOUNDATION FOR STEEL LAMPOST
APPROXIMATELY 50' MOUNTING HEIGHT

NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
NOTES:

1. THIS DRAWING APPLIES TO SIZE AND LOCATION OF LAM POST FOUNDATION FROM CURB LINE.

2. BEFORE PROCEEDING WITH THE CONSTRUCTION, A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."

WHERE LAMP POST ANCHORAGE IS INSTALLED, USE 3/8" STEEL ANCHOR BOLTS, MALLEABLE IRON BOLT COUPLINGS AND 9 IN. GALV STEEL STUDS WITH PRECAST CONCRETE CAP.
1. ALL SUPPORTS SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS TO BE FURNISHED WITH NUTS, WASHERS AND LOCKWASHERS. ALL NUTS, BOLTS, SCREWS, WASHERS, ETC. TO BE STAINLESS STEEL OR EQUAL.

NOTES:

- HDG HEX NUTS, FLAT WASHER AND LOCKWASHER
- 1" EXPANSION BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE
- 3" GALV. STEEL PIPE SLEEVE GROUT IN PLACE AND LAP SEAL WATER PROOFING
- DRILL HOLE FOR 3" SLEEVE IN WALL WITH ROTARY DRILL
- Caulk with oakum
- 1/2" STEEL SPACER
- 3/4" DIA. BOLTS EXCEPT AS NOTED
- 3/4" DIA. BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE

SECTION A-A

- CONCRETE CAP PLATE 4"X1/2" WELD
- 3/8" PLATE WELD
- CUT GRATING TO FIT SIDES OF CONCRETE CAP
- #6 DEFORMED BARS WELDED TOGETHER IN 2" MESH

SECTION B-B

- 1 1/2" DIA. HOLES ON 15" DIA. BOLT CIRCLE
- 6" x 4" x 1/2" L
- 6" x 6" x 1/2" L
- 3/4" DIA. BOLTS
- 4" x 6" x 1/2" L
- 1" EXPANSION BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE

NOTES:

- CONCRETE MIX 1-2-4
- HDG HEX NUTS, FLAT WASHER AND LOCKWASHER
- 1" EXPANSION BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE
- CAULK WITH OAKUM
- 1/2" STEEL SPACER
- 3/4" DIA. BOLTS EXCEPT AS NOTED
- 3/4" DIA. BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE

SECTION A-A

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- CUT GRATING TO FIT SIDES OF CONCRETE CAP
- #6 DEFORMED BARS WELDED TOGETHER IN 2" MESH

SECTION B-B

- 1 1/2" DIA. HOLES ON 15" DIA. BOLT CIRCLE
- 6" x 4" x 1/2" L
- 6" x 6" x 1/2" L
- 3/4" DIA. BOLTS
- 4" x 6" x 1/2" L
- 1" EXPANSION BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE

NOTES:

- CONCRETE MIX 1-2-4
- HDG HEX NUTS, FLAT WASHER AND LOCKWASHER
- 1" EXPANSION BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE
- CAULK WITH OAKUM
- 1/2" STEEL SPACER
- 3/4" DIA. BOLTS EXCEPT AS NOTED
- 3/4" DIA. BOLTS WITH 5" LONG 3 UNIT CINCH ANCHORS OR EQUAL, 3 REQUIRED PER ANGLE
NOTE:
1. LAMPPOST NOT SHOWN.

2. ALL ANGLES, NUTS, BOLTS, WASHERS, ETC., SHALL BE HOT DIPPED GALVANIZED.

3. φ OF 18"x18"x1" STEEL BASE PLATE SHALL BE LOCATED 1" OFF Φ OF 8" BEAM BELOW TO ALLOW THE ENTRANCE OF 2" CONDUIT. 1" OFFSET MUST BE ON SIDE WITH CONDUIT SLOT AS SHOWN IN PLAN.

CONDUIT SLOT

18"x18"x1" BASE PLATE

1" STEEL PLATE

15" DIA. BOLT CIRCLE

CONDUIT BUSHING

4"x4"x1/2" ANGLES

2" CONDUIT

GRATING

18"x18"x1" STEEL BASE PLATE

SEE PLAN AND SECTION B-B

(LAMPPOST SUPPORT ASSEMBLY)

1/8" BEAM

2 3/16"

10 5/8"

15"

2" CONDUIT

CAULK WITH OAKUM

CAULK WITH OAKUM

DRILL HOLE FOR 3" SLEEVE IN WALL WITH ROTARY DRILL

3" GALVANIZED STEEL PIPE SLEEVE GROUT IN PLACE AND LAP AND SEAL WATERPROOFING

SIDE VIEW

NOTE: 1. LAMPPOST SUPPORT ASSEMBLY SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

2. ALL ANGLES, NUTS, BOLTS, WASHERS, ETC., SHALL BE HOT DIPPED GALVANIZED.

3. Φ OF 18"x18"x1" STEEL BASE PLATE SHALL BE LOCATED 1" OFF Φ OF 8" BEAM BELOW TO ALLOW THE ENTRANCE OF 2" CONDUIT. 1" OFFSET MUST BE ON SIDE WITH CONDUIT SLOT AS SHOWN IN PLAN.
NOTES:
1. LAMPPOST SUPPORT ASSEMBLY SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.
2. CHANNELS, FILLERS, RODS, NUTS AND WASHERS TO BE HOT DIPPED GALVANIZED STEEL.
3. 5/8" DIA. RODS, 3" LONG THREAD EACH END WITH HEX NUTS AND LOCK WASHERS, LENGTH TO BE DETERMINED IN FIELD.
4. 1" STEEL PLATE CIRCULAR HOLE TO PROVIDE SUFFICIENT CLEARANCE FOR INSTALLATION OF 1" DIA. ANCHOR RODS AND 1 1/2" CONDUIT.
1.5" SERVICE CONDUIT
ACTUAL CONDUIT RUN TO THE FOUNDATION
TO BE DETERMINED IN THE FIELD

1 1/2" HDG STEEL NIPPLE
3" LONG HDG STEEL COUPLING

BRONZE GROUNDING BUSHING

3" L x 1" DIA. MALLEABLE
IRON BOLT COUPLING
5" SLEEVE FOR HDG
RIGID STEEL CONDUIT

1" DIA. x 10", HDG
STEEL ANCHOR BOLTS
WITH 1/8" R.C.

30" x 30" x 3/4" HDG
STEEL PLATE

NOTES:
1. REINFORCING RODS SHALL BE 1/2" DIA. DEFORMED ON
6" CENTERS, CONCRETE MIX - 1:2:4.
2. FOR USE WITH OTHER LAMPPost TYPES, A DETAILED
STRUCTURAL DESIGN OF THE FOUNDATION RECESS
SHALL BE SUBMITTED TO THIS DEPARTMENT FOR
APPROVAL. THE LICENSED ENGINEER SEAL SHALL
APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE
SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL
NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT
(212) 839-3322 APPROXIMATELY 72 HOURS BEFORE
COMMENCING WORK".
Provide 4 semi round drain grooves 1" in diameter.

Reinforcing rods, 1/2" dia., deformed on 6" center

1" HD galvanized steel studs 8" long fully threaded with hex nut

1" malleable iron bolt coupling 3" long

2" x 45° chamfer

HD galvanized 4 1/2" dia. anchor bolts 15" bolt circle

Curb

2" square concrete (1:2:4)

Reinforcing rods, 1/2" dia., deformed on 6" center

NOTE: Allow bottom section to set. Wash off and apply cement grout before pouring top section

Grounding bushing, OZ. type GB, or equal

HD galvanized steel coupling

Sidewalk

1/2" HD galvanized steel nipple

Roadway

1" HD galvanized steel studs 6" long fully threaded with hex nut

1" malleable iron bolt coupling 3" long

2" x 45° chamfer

HD galvanized 4 1/2" dia. anchor bolts 15" bolt circle

Curb

2" conduit

Reinforcing rods, 1/2" dia., deformed on 6" center

Concrete mix (1:2:4)

NOTE:

1. For use with other lamp post types, a detailed structural design of the foundation recess shall be submitted to this department for approval. The licensed engineer seal shall appear on all submittals. The following note shall appear on all prints: "Contractor shall notify Division of Street Lighting Inspection at (212) 859-0322 approximately 72 hours before commencing work."
NOTES:

1. IN ORDER TO PLACE THE NEW CONCRETE, REMOVE ONE APPROXIMATELY 5'-0" LONG GRANITE COPING BLOCK AND SOME STONE FACING FROM TOP OF WALL ADJACENT TO EXISTING LAMPPOST LOCATION.

2. DRILL EXPOSED CONCRETE PART OF WALL TO INSTALL THE SIX TRANSVERSE REBARS AND THE TWO 18" LONG ANCHOR BOLTS ON 15" BOLT CIRCLE.

3. GROUT REBARS AND ANCHOR BOLTS IN PLACE.

4. TIE THE TWO LONGITUDINAL REBARS TO THE SIX TRANSVERSE REBARS.

5. CHASE STONE FACING OF WALL TO INSTALL 1 1/2" CONDUIT FLUSH WITH SURFACE AND GROUT IN PLACE.

6. INSTALL THE TWO 24" LONG AND/OR BOLTS, BENT AS SHOWN, ON 15" ROLL CIRCLE WITH THE 18" LONG ANCHOR BOLTS. ANCHOR BOLTS SHALL BE CENTERED IN NEW CONCRETE.

7. PLACE NEW CONCRETE AND PROVIDE 1 1/2" CONDUIT ELBOW WITH 1" DIAMETER HALF ROUND DRAIN GROOVES.

8. THE DRAWING IS FOR USE WITH TYPE 8S LAMPPOST WITH TRANSFORMER BASE.

9. FOR USE WITH OTHER LAMPPOST TYPES A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THIS DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."

10. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO AT 180 DEGREE CONDUIT ELBOWS. ONE FOR SERVICE AND ONE AS A SPARE. SPARE CONDUIT ELBOW SHALL BE CLOSED both ends. IN THE TRANSFORMER BASE OF DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY HD GALV STEEL PIPE CAP.

ELEVATION OF NEW LAMPOST FOUNDATION

SECTION A-A
1. FOUNDATION BOX COMBO IS TO BE USED ON HIGHWAY DISTRIBUTION SYSTEM ONLY, WITH 25' ALUMINUM LAMPPOST.
2. CONCRETE TO 1:2:4 MIX TO REACH 4000 P.S.I.
3. BOX AND FOUNDATION TO BE MONOLITHIC.
4. CONDUITS TO RIDE FREELY THROUGH BOX FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
5. FURNISHED WITH, ON EACH END, BRONZE GROUNDING BUSHINGS.
6. FOR ROADWAY FRAME AND COVER REFER TO NYC DOT STREET LIGHTING STANDARD DRAWINGS BOX-001_1 AND BOX-001_2.
7. FOUNDATION IS FOR 25' ALUMINUM LAMPPOST, WITH TRANSFORMER BASE. SHALL BE MODIFIED ACCORDINGLY FOR OTHER LAMPPOST TYPES. DETAILS SHALL BE SENT FOR REVIEW APPROVAL TO STREET LIGHTING ENGINEER.
NOTES:
1. DETAILS IN THIS DRAWING ARE ONLY FOR 8S LAMPPOST AS IN NYC DOT STREET LIGHTING STANDARD DRAWING LP-001. MODIFICATION COULD BE MADE AS PER PLANS.
2. FOR USE WITH ANY OTHER LAMPPOST TYPE, DETAILS OF STEEL PLATES OF CONNECTION SHALL BE DESIGNED ACCORDINGLY.
3. BEFORE PROCEEDING WITH THE CONSTRUCTION, A DETAILED STRUCTURAL DESIGN OF THE FOUNDATION RECESS SHALL BE SUBMITTED TO THE DEPARTMENT FOR APPROVAL. THE LICENSED ENGINEER SEAL SHALL APPEAR ON ALL SUBMITTALS. THE FOLLOWING NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTIONS AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."
4. BOLTS DIAMETER AND BOLT CIRCLE SHALL BE MODIFIED ACCORDINGLY.

ASSEMBLY OF LAMPPOST SUPPORT

DETAIL OF LAMPPOST BEARING PLATE

DETAIL OF BRACKET PLAN VIEW

DETAIL OF BRACKET SIDE VIEW
1. Turn stainless steel nuts with 1 7/8" O.D. x 1 3/32" I.D. x 9/32" thick composition washers, made of Fabreka or equal, on studs.
2. Set cap on studs, with 1/2" dia. drain holes at sidewalk level.
3. Hand tighten stainless steel nuts until composition washers contact underside of cap.
4. Bolt transformer base to cap.
5. Tighten stainless steel nuts to compress composition washers against cap without causing damage to washers.
6. Fill cap with concrete to a depth of 2", leaving 1/2" dia. drain holes clear.
BOX DRAWINGS
NOTES:
1. ONLY ONE STANCHION IN CENTER OF EACH SIDE OF BOX FOR 24"x18" BOX.
2. CONDUTS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
3. CONCRETE SHALL CONSIST OF 1 PART OF HIGH GRADE PORTLAND CEMENT, 2 PARTS FINE AGGREGATE OF CLEAN NATURAL SAND OR SCREENINGS FROM TRAP, GRANITE OR GRAVEL, 4 PARTS COARSE AGGREGATE OF HARD CRUSHED ROCK, OR GRAVEL, TO PASS 1" CIRCULAR OPENING IN SCREEN AND CLEAN FRESH WATER.
4. CONCRETE SHALL HAVE A CERTIFIED DESIGN MIX WITH A MINIMUM STRENGTH OF 4000 PSI IN 28 DAYS.
5. FRAME AND COVER SHALL BE HOT DIPPED GALVANIZED.
6. FOR SIZE AND NO. OF CONDUTS ENTERING BOX, SEE CONTRACT PLANS.
7. ALL NUTS, BOLTS, SCREWS, ETC. SHALL BE STAINLESS STEEL, EXCEPT OTHERWISE NOTED.
8. BOLTS SHALL BE EITHER MCGARD INC. PART NO. 117089, OR INNER TITE CORP. PART NO. TRS-01.
9. FOR HIGHLY VANDALIZED AREAS AND IF ORDERED BY THE ENGINEER, A COMBINATION OF FOUR BOLTS FROM ONE TYPE AND THE REST FROM THE OTHER TYPE WILL BE REQUIRED.
10. INSTALLING AND REMOVING TAMPERPROOF BOLTS WILL REQUIRE WRITTEN AUTHORIZATION TO OBTAIN THE EXCLUSIVELY DESIGNED NEW YORK CITY KEY SYSTEM.
11. FRAME AND COVER SHALL BE NEATLY FINISHED. THE THICKNESS AS GIVEN SHALL BE UNIFORM THROUGHOUT FOR BOTH FRAME AND COVER. ACCEPTANCE OF COMPLETE ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THIS DEPARTMENT.
12. A 1 CU. FT. BROKEN STONE DRY WELL SHALL BE PROVIDED UNDER BOX DRAIN BEFORE BOX IS INSTALLED.
13. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
14. MANUFACTURERS Unused KNOCKOUTS SHALL BE PLUGGED.
17. FRAME AND COVER SHALL BE EQUAL TO THOSE MANUFACTURED BY O.Z. ELECT MFG. CO. INC. or COMPBELL FOUNDRY CO.
18. CONDUTS SHALL PROJECT INTO BOX BETWEEN 1" AND 2".
19. A) FOR BOXES USED AT PARKS (OR AS CALLED FOR IN CONTRACT PLANS), THERE SHALL BE AN RFID MARKER AS PER 3M "BALL MARKERS" NO. "3M ID BALL MARKED 1428-XR/ID", OR APPROVED EQUAL. B) FOR EACH BOX, CONTRACTOR SHALL ADD SERIAL NUMBER OF USED MARKER IN AS-BUILT PLANS.
20. FOR DIMENSIONS A, B, D AND T, REFER TO TABLE ON N.Y.C DOT STREET LIGHTING STANDARD DRAWING BOX-002.
PLAN LAYOUTS OF COVERS SHOWING BOLT SPACING AND LIFTING SLOT LOCATIONS BOLTS LOCATED SYMMETRICALLY ABOUT BOX CENTERLINES
PROCEDURE FOR INSTALLING VANDAL RESISTANT CONCRETE BOX COVER IN SPECIFIC LOCATIONS:

1. OPEN BOX AND REMOVE CABLES FROM RACKS. LET CABLE LIE ON BOTTOM OF BOX.
2. REMOVE RACKS, STANCHIONS AND BOLTS, WHICH BECOME PROPERTY OF CONTRACTOR.
3. INSTALL A 4"x4" WOOD COLUMN IN EACH CORNER OF BOX AND A 3/4" SHEET OF PLYWOOD ON TOP OF COLUMN. LENGTHS OF COLUMNS SHALL ENSURE THAT PLYWOOD IS LEVEL AND BE 6" BELOW BOTTOM OF BOX FRAME. NAIL PLYWOOD TO COLUMN.
4. COLUMN SHALL BE PRESSURE TREATED PINE AND PLYWOOD SHALL BE EXTERIOR GRADE.
5. CAULK ALONG FOUR SIDES OF PLYWOOD TO SEAL JOINT BETWEEN PLYWOOD AND CONCRETE WALLS OF BOX.
6. POUR A 4" LAYER OF 1:2:4 CONCRETE ON PLYWOOD.
7. CLOSE BOX AND INSTALL ALL TAMPER PROOF BOLTS IN COVER.
N.Y.C.
ELECTRICAL

NOTES:


2. BOX, FRAME AND COVER SHALL BE HOT DIPPED GALVANIZED INSIDE & OUT.

3. BOX, FRAME AND COVER SHALL BE NEATLY FINISHED. THE THICKNESSES AS GIVEN SHALL BE UNIFORM THROUGHOUT. ACCEPTANCE OF COMPLETE ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE OF THIS DEPARTMENT.

4. ALL NUTS, BOLTS, SCREWS, ETC. SHALL BE STAINLESS STEEL.

5. FOR SIZES AND NO. OF CONDUITS ENTERING BOX, SEE CONTRACT PLANS.

6. BOX, FRAME & COVER SHALL BE EQUAL TO THOSE MANUFACTURED BY J. J. ELECT. MFG. CO., INC., OR MATCHING SIZE AND NO. OF CONDUITS ENTERING BOX.

7. BOLTS SHALL BE EITHER MCGARD INC. PART NO. 117089 OR INNER TITE CORP. PART NO. TRS-01.

8. FOR HIGHLY VANDALIZED AREAS AND IF ORDERED BY THE ENGINEER, A COMBINATION OF FOUR BOLTS FROM ONE TYPE AND THE REST FROM THE OTHER TYPE WILL BE REQUIRED.

9. INSTALLING AND REMOVING TAMPERPROOF BOLTS WILL REQUIRE WRITTEN AUTHORIZATION TO OBTAIN THE EXCLUSIVELY DESIGNATED NEW YORK CITY KEY SYSTEM.

10. ALL HOLES SHALL BE DRILLED TO SUIT CONDUIT.
SEE NOTE 11

9/16" DIA. HOLE (TYP.)

TAMPER RESISTANT SCREWS (TYP.)
SEE NOTES 6 & 7.

DETAIL B
BOX WITH INTERNAL HUB

2" LONG HUB DRILL AND TAP FOR 1 1/4" CONDUIT ATTACH TO BOX WITH CONTINUOUS CIRCUMFERENCE WELD.

DETAIL C
BOX WITH HINGED DOOR

9.5
5

14.5
7

20.5
7

26.5
12

12.5
12

12.5
12

14.5
7

14.5
7

26.5
12

26.5
12

12.5
12

20.5
7

10
2

12

9.5
5

8

8

6

12

12

6

12

12

8

18

10

18

10

12

18

12

36

24

12

38.5
18

NOTES:
1. BOX SHALL BE FABRICATED FROM NO. 10 USS GUAGE STEEL SHEET.
2. BOX FLANGES SHALL BE TURNED INWARD, DIMENSION AS INDICATED.
3. ALL SEAMS SHALL BE CONTINUOUSLY WELDED, ALL WELDS SHALL BE MADE SMOOTH AND UNIFORM, EXCESS WELDING MATERIAL SHALL BE GROUND SMOOTH.
4. BOX AND COVER SHALL BE HOT DIP GALVANIZED INSIDE AND OUT AFTER FABRICATION AND SHALL RECEIVE AN ALUMINIZED FINISH TO PREVENT OXIDATION.
5. BOX COVER SHALL BE PROVIDED WITH A CONTINUOUS 1/8" THICK NEOPRENE GASKET SECURED TO THE COVER PERIMETER WITH AN APPROVED RUBBER CEMENT.
6. BOX COVER SHALL BE SECURED TO BOX BY 1/4"-20x3/4" LONG TAMPER RESISTANT SCREWS, NUMBER AS INDICATED.
7. BOX FLANGES SHALL BE EQUIPPED WITH THREADED INSERTS AS PER AVK'S A.T. SERIES INSERT OR APPROVED EQUAL.
8. WHERE BOX IS USED AS FUSE CUTOUT BOX IT SHALL BE PROVIDED WITH STAINLESS STEEL, HINGE 4" OPEN x 7" LONG WITH NON REMOVABLE PIN. HINGE SHALL BE ATTACHED TO BOX WITH A MINIMUM OF THREE (3) STAINLESS STEEL POP RIVETS PER LEAF ATTACH AFTER GALVANIZING.
9. BOX SHALL BE NEMA-4 ENCLOSURE.
10. ALL HARDWARE SHALL BE STAINLESS STEEL.
11. BOX SHALL HAVE KNOCKOUTS SUITABLE FOR THE CONNECTING OF CONDUITS AS INDICATED ON PLANS.
12. BOX SHALL BE NEATLY FINISHED INSIDE AND OUTSIDE, ACCEPTANCE OF COMPLETE ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
NOTES:
1. BOX, FRAME & DOOR TO BE HOT-DIPPED GALVANIZED TO WITHSTAND A FIVE DIP PIECE TEST.
2. ALL NUTS, BOLT SCREWS, ETC. SHALL BE STAINLESS STEEL EXCEPT OTHERWISE NOTED.
3. BOLTS SHALL BE EITHER MCGARD INC. PART NO. 117089 OR INNER TITE CORP. PART NO. TRS-01.
4. DRILL AND TAP BOTTOM OF BOX FOR 3/4" I.P.S. DRAIN.
5. SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-010_4 FOR LATCH LOCK ASSEMBLY DETAILS.
6. BOX, FRAME AND COVER SHALL BE NEATLY FINISHED WITH UNIFORM THICKNESS THROUGHOUT.
7. ENTIRE ASSEMBLY SHALL BE NEMA 4.
8. AS AN ALTERNATE, RECESSED BOX IN WALL MAY BE ORDERED WITHOUT MOUNTING LUGS IF SO REQUIRED.

CAST IRON FUSE BOX

dimensions:

- Inside Dimensions
- Lug Spacing
- Hole Spacing
- Hinge Spacing
- Frame Length

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*THREE HINGES*
NOTE:

1. MARKER SHALL BE BROKEN OFF & BOX BUILT UP TO ACCOMODATE FRAME & COVER AS INDICATED.
CONTROL CABINET DRAWINGS
NOTES:
1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH A NON-NOX RESISTING COMPOUND. BONELL COMPANY OR EQUAL.
2. LOCATION, SIZES & NUMBER OF CONDUIT ENTRANCES INTO CABINET SHALL BE DETERMINED FROM STREET LIGHTING PLAN. CONDUITS ENTERING BOTTOM OF BOX SHALL BE EQUIPPED WITH SYL. 110, SIZE 3/4" OR EQUAL & LOCKNUTS.
3. ALL NUTS, BOLTS & SCREWS FOR BOX SHALL BE STAINLESS STEEL, OR EQUAL.
4. ALL CONDUITS IN BOX SHALL BE FLAME PROOFED & SHALL BE COPPER.
5. OUTDOOR INSTALLATION REQUIRES ADDITION OF DRAIN SHED AS DETAILED ON NYC DOT STREET LIGHTING STANDARD DRAWING CC-011, AND ATTACHMENT OF 1/8" THICK RUBBER GASKET ALL AROUND BOX WITH SEPARATE 1/8" THICK RUBBER GASKET OVER REMOVABLE CENTER BAR.
6. 3/8"-16 SOCKET HEAD CAP SCREW & 3/16" x 1" x 1" ANGLES ALL AROUND BOX WELDED TO BOX.
7. ALL CONDUITS INCLUDING SPARES SHALL BE BONDED TOGETHER BY MEANS OF A #6 STRANDED TINNED BARE COPPER CABLE. ONE END OF THE BONDING CABLE SHALL BE CONNECTED TO CABINET GROUNDING BUS.
8. FOR 3 RELAY WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007, FOR 6 RELAY WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
9. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURE.
10. FOR CONTROL CABINET COMPONENTS & WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
11. FOR ELECTRICAL COMPONENTS DESCRIPTION SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007.
FRONT ELEVATION OF BOX WITH ANGULAR FRAME & DOOR IN POSITION

1 1/4" x 1 1/4" GAL. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

- 3/8" DIA. HOLES FOR MOUNTING BOX

- 1 1/2" x 5" BRASS NAME PLATE WITH RAISED LETTERS RIVETED TO DOOR, F.G. CLOVER CO. STYLE #778, OR EQUAL. PAINT NAME PLATE SAME COLOR AS BOX.

- 1 1/2" x 5" x 18" GA. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

- 3/8" x 2 1/2" STEEL MOUNTING STRAPS WELDED TO BOX

- 1/4" R.H. MACH SCREWS

- 1" x 1/2" COPPER BEARING STEEL STRAP, WELDED TO RIGHT HAND DOOR

- 2 1/2" STEEL MOUNTING STRAPS WELDED TO BOX

- 1 1/2" STANDARD GALV. PIPE CAP WELDED TO BOTTOM OF BOX. CUT (4) 1/2" SLOTS IN CAP ON 90° CENTERS FOR DRAINAGE.

- 1/4" R.H. MACH SCREWS

- 1/4" R.H. MACH SCREWS

- 2" COPPER BEARING STEEL STRAP, WELDED TO RIGHT HAND DOOR

SECTION D-D

1 1/4" x 1 1/4" G.I. ∠ RIVETED TO BOX

- 1/4" G.I. ∠ RIVETED TO BOX

- 3/8" R.H. MACH SCREWS

- 1/8" x 2" COPPER BEARING STEEL STRAP, WELDED TO RIGHT HAND DOOR

SECTION C-C

- 1/4" x 1 1/4" G.I. ∠ RIVETED TO BOX

- 3/8" R.H. MACH SCREWS

- 1/16" GAL. HOLES FOR MOUNTING BOX

- 1 1/2" x 5" BRASS NAME PLATE WITH RAISED LETTERS RIVETED TO DOOR, F.G. CLOVER CO. STYLE #778, OR EQUAL. PAINT NAME PLATE SAME COLOR AS BOX.

- 1 1/2" x 5" x 18" GA. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

- 3/8" DIA. HOLES FOR MOUNTING BOX

- 1 1/2" x 5" BRASS NAME PLATE WITH RAISED LETTERS RIVETED TO DOOR, F.G. CLOVER CO. STYLE #778, OR EQUAL. PAINT NAME PLATE SAME COLOR AS BOX.

- 1 1/2" x 5" x 18" GA. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.
NOTES:
1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH ALKALI & ACID RESISTING COMPOUND BONNELL CO. MV-74 OR EQUAL.
2. LOCATION SIZES & NUMBER OF CONDUIT ENTRANCES INTO CABINET SHALL BE DETERMINED FROM STREET LIGHTING PLAN. CONDUITS ENTERING BOTTOM OF BOX SHALL HAVE A SLIP FIT, AND BE EQUIPPED WITH O.Z. EL. MFG. CO. TYPE G.B. BUSHING, OR EQUAL, & LOCKNUTS.
3. ALL NUTS, BOLTS & SCREWS FOR BOX SHALL BE STAINLESS STEEL, OR EQUAL.
4. ALL CONDUCTORS IN BOX SHALL BE FLAME PROOFED AND SHALL BE COPPER.
5. OUTDOOR INSTALLATION REQUIRES ADDITION OF DRAIN SHED AS DETAILED ON STREET LIGHTING STD. DWG. CC-011, AND ATTACHMENT OF 1/8" THICK RUBBER GASKET ALL AROUND BOX WITH SEPARATE 1/8" THICK RUBBER GASKET OVER REMOVABLE CENTER BAR.
6. THREADED CONNECTION OF CONDUIT TO CABINET SHALL BE PROVIDED, IN ADDITION TO G.I. BUSHING AND LOCKNUT.
7. ALL CONDUITS INCLUDING SPARES SHALL BE BONDED TOGETHER BY MEANS OF A #6 STRANDED TINNED BARE COPPER CABLE. ONE END OF THE BONDING CABLE SHALL BE CONNECTED TO CABINET GROUNDING BUS.
8. FOR 3 RELAY WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007, FOR 6 RELAY WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
9. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURER.
10. FOR CONTROL CABINET COMPONENTS & WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
CONCRETE SHALL BE 1:2:4 MIX.

DRIP SHIELD SHALL BE 1 1/4"x1 1/4"x1/8" BRASS ANGLE EXTENDING WIDTH OF CABINET, AND ATTACHED WITH THREE 3/8" MACHINE SCREWS LOCATED ABOVE.

FOR EXPANSION BOLT LOCATIONS AND DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-012 OR CC-013.

FOR 3-RELAY CABINET CONSTRUCTION, DIMENSIONS, EQUIPMENT, WIRING DIAGRAM AND NOTES SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-012.

FOR 6-RELAY CABINET CONSTRUCTION, DIMENSIONS, EQUIPMENT, WIRING DIAGRAM AND NOTES, SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-013.

AT FLOOD ZONE AREAS, COULD BE UP TO 4' OR AS APPROVED PLANS.

CABINET DIMENSIONS MAY VARY AS PER APPROVED MANUFACTURER.

SEE LIGHTING PLANS FOR REQUIRED NUMBER AND SIZE OF LIGHTING LOAD CONDUIT AND CABLES. PROVIDE IN ADDITION TO SERVICE CONDUIT ONE SPARE EMPTY CONDUIT, SAME SIZE, EXTENDING TO NEAREST BOX IN DISTRIBUTION SYSTEM.

SEE LIGHTING PLANS FOR REQUIRED NUMBER AND SIZE OF SERVICE CONDUIT AND CABLES. PROVIDE IN ADDITION TO SERVICE CONDUIT ONE SPARE EMPTY CONDUIT, SAME SIZE, CAPPED 1'-6" FROM PEDESTAL.

SEE LIGHTING PLANS FOR REQUIRED NUMBER AND SIZE OF LIGHTING LOAD CONDUIT AND CABLES. PROVIDE IN ADDITION TO SERVICE CONDUIT ONE SPARE EMPTY CONDUIT, SAME SIZE, EXTENDING TO NEAREST BOX IN DISTRIBUTION SYSTEM.

REINFORCEMENT: 6"x6" MESH NO.3xNO.3 WIRES 3/4" PIPE DRAIN.

DRAIN PIPE SHALL NOT HAVE ANY 90° BENDS OR VALVES.

EXPANSION BOLT. SEE NOTE 2.

DETAIL OF TRIM ABOVE CABINET SHOWING THE LOCATION OF THE (3) 3/8" R.H. MACHINE SCREWS USED FOR AttACHING DRIP SHIELD.
NOTES:

1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH ALKALI & ACID RESISTING COMPOUND BONNELL CO. MV-74 OR EQUAL.

2. LOCATION, SIZES & NUMBER OF CONDUIT ENTRANCES INTO CABINET SHALL BE DETERMINED FROM STREET LIGHTING PLAN. CONDUITS ENTERING BOTTOM OF BOX SHALL HAVE A SLIP FIT, & BE EQUIPPED WITH O.Z. EL. MFG. CO. TYPE G.B. BUSHING, OR EQUAL, & LOCKNUTS.

3. ALL NUTS, BOLTS & SCREWS FOR BOX SHALL BE STAINLESS STEEL, OR EQUAL.

4. ALL CONDUCTORS IN BOX SHALL BE FLAME PROOFED & SHALL BE COPPER.

5. OUTDOOR INSTALLATION REQUIRES ADDITION OF DRAIN SHED AS DETAILED ON NYC DOT STREET LIGHTING STANDARD DRAWING CC-011, AND ATTACHMENT OF 1/8" THICK RUBBER GASKET ALL AROUND BOX WITH SEPARATE 1/8" THICK RUBBER GASKET OVER REMOVABLE CENTER BAR.

6. THREADED CONNECTION OF CONDUIT TO CABINET SHALL BE PROVIDED, IN ADDITION TO G.B. BUSHING AND LOCKNUT.

7. ALL CONDUCTORS INCLUDING SPARES SHALL BE BONDED TOGETHER BY MEANS OF A #6 STRANDED TINNED BARE COPPER CABLE. ONE END OF THE BONDING CABLE SHALL BE CONNECTED TO CABINET GROUNDING BUS.

8. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURE.

9. CABINET DOORS

10. FOR CONTROL CABINET COMPONENTS & WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
NOTES:
1. CONCRETE SHALL BE 1:2:4 MIX.
2. FOR CONTROL CABINET DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-004_1.
3. WELD 1/2" STANDARD GALVANIZED STEEL PIPE CAP OVER DRAIN OPENING PROVIDE (4) 1/2" WIDE SLOTS IN CAP, ON 90° CENTERS.
4. DRIP SHEILD SHALL BE 1 1/4"x1/8"x14" HIGH DENSITY GALVANIZED STEEL ANGLE EXTENDING WIDTH OF CABINET, FASTEN WITH (2) 1/4" ROUND HEAD DENSITY MACHINE SCREWS WITH 2-UNIT CINCH ANCHORS, MOUNT ON BOTH SIDES.
5. WHEN POUR IN FIELD IS PERMITTED, A THREE PHASE POUR METHOD SHALL BE USED AS INDICATED ON DRAWING.
6. AT FLOOD ZONE AREAS, COULD BE UP TO 4' OR AS APPROVED PLANS.
7. CABINET DIMENSIONS MAY VARY AS PER APPROVED MANUFACTURER.
NOTES:

1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH A NARROW BAND OF OXIDE. NO WELDING SHOULD BE DONE ON ANY PORTION OF THE CABINET.

2. LOCATION SIZES & NUMBER OF CONDUIT ENTRANCES INTO CABINET SHALL BE DETERMINED FROM STREET LIGHTING PLAN. CONDUIT ENTRANCES INTO BOTTOM OF BOX SHALL HAVE A SLIP FIT & BE EQUIPPED WITH O.Z. MFG. CO. TYPE G.B. BUSHING, OR EQUAL, & LOCKNUTS.

3. ALL NUTS, BOLTS & SCREWS FOR BOX SHALL BE STAINLESS STEEL, OR EQUAL.

4. ALL CONNECTORS IN BOX SHALL BE FLAME PROOFED & SHALL BE COPPER.

5. OUTDOOR INSTALLATION REQUIRES ADDITION OF DRAIN SHED AS DETAIL ON DOT STREET LIGHTING STANDARD DRAWING CC-010 & ATTACHMENT OF 1/8" THICK TUBER CAGE G.B. BUSHING BOX WITH 1/8" THICK TUBER CAGE OVER REMOVABLE G. B. BUSHING.

6. THREADED CONNECTOR OF CONDUIT TO CABINET SHALL BE PROVIDED. IN ADDITION TO O.Z. CHIMNEY AND LOCKNUT.

7. ALL CONNECTORS INCLUDING SPARES SHALL BE BONDED TO CABINET GROUNDING BUS. ONE END OF THE BONDING CABLE SHALL BE CONNECTED TO CABINET GROUNDING BUS.

8. FOR 3 RELAY WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007.

9. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURE.

10. FOR CONTROL CABINET COMPONENTS & WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.

11. FOR ELECTRICAL COMPONENTS DESCRIPTION SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007.
THIRD CONCRETE POUR
SECOND CONCRETE POUR
FIRST CONCRETE POUR
REINFORCEMENT 3/8"
STEEL RODS WITH 8" MAX ON CENTERS TIED AT EACH HORIZONTAL AND VERTICAL CROSSING

SECTION B-B
REINFORCING ROD PATTERN FOR CONCRETE PEDESTAL
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL BE 1:2:4 MIX.
2. FOR CONTROL CABINET DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-005.
3. WELD 1 1/2" STD. GALV. PIPE CAP OVER DRAIN OPENING PROVIDE (4) 1/2" WIDE SLOTS IN CAP, ON 90° CENTERS.
4. BENT PLATE ANCHORS 1 1/2" WELDED TO CABINET 2 TO EACH SIDE.
5. WHEN POUR IN FIELD IS PERMITTED, A THREE PHASE POUR METHOD SHALL BE USED AS INDICATED ON DRAWING.
6. AT FLOOD ZONE AREAS, COULD BE UP TO 4' OR AS APPROVED PLANS.
7. CABINET DIMENSIONS MAY VARY AS PER APPROVED MANUFACTURER.

DETAIL X
SCALE: N.T.S.
WIRING DIAGRAM

FRONT ELEVATION - DOOR REMOVED
FOR FLUSH OR SURFACE MOUNTING

SECTION A-A
CONTROL CABINET DETAIL:
BUS BAR AND STRAP MOUNTING
(ELECTRICAL EQUIPMENT NOT SHOWN)

NOTES:
1. CONTROL CABINET SHALL BE 30"x24"x12" HOT DIPPED GALVANIZED STEEL NEMA 4 ENCLOSURE WITH HINGED DOOR AND LOCKING DEVICE AS PER NYC DOT STREET LIGHTING STANDARD DRAWING CC-010-4. BENEFIELD OR EQUAL.
2. FOR MOUNTING CONTROL CABINET ON POLE, SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-009. FOR GROUNDING SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-013.
3. FOR SERVICE MOUNTING OF CABINET AND DOOR DETAIL SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS CC-001-1 AND CC-001-2.
4. FOR PEDESTAL MOUNTING ON CABINET SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-006.
5. P.E.C.'S TO BE INSTALLED ON NEAREST LIGHT POLES OR AS CALLED FOR ON PLANS.
6. Fuse block and wiring to be installed only when under deck lighting is required at or around cabinet location. Fuse and fuse block varies depending on underdeck lighting load.
7. Contractor shall furnish and install grounding bushing at service entrance to control cabinet. Furnish and install ground wire and bond neutral to cabinet.
8. NO. AND SIZE OF 24 HRS WIRES SHALL CONFORM TO PLANS AND COULD BE OFF OF ANY PHASE. IF WIRES OF 24HRS ARE LARGER THAN LOAD CIRCUIT WIRES, THEN 24HRS CIRCUIT SHALL HAVE ITS OWN COMPATIBLE NEUTRAL AND GROUNDING WIRES.
9. If each circuit is going from control cabinet to separate ground wire and neutral wire.
10. Cabinet dimension may vary as per approved manufacturer.

ELECTRICAL EQUIPMENT TO BE FURNISHED AND INSTALLED
(CABINETS, BOXES, CONDUIT & WIRING NOT LISTED)
120 VAC, 100 AMPS, SINGLE POLE NORMALLY OPENED MERCURY RELAY MDI CAT. NO. 100 NO-120A OR EQUAL.
CLASS R BUSSMAN 3 POLE 100A FUSE BLOCK CAT. NO. R60100-3 OR EQUAL. 100A BUSSMAN FAST ACTING FUSES 600V CAT NO. KTS-R-100 OR EQUAL.
LEVITON LAMP HOLDER 250V, 660W MODEL NO. 9875 OR EQUAL. CARLON LAMP HOLDER BACK BOX CAT. NO. A615E OR EQUAL.
BUSSMAN 3 POLE 30A 250V FUSE BLOCK CAT NO. R25030-3 OR EQUAL. BUSSMAN 15A FAST ACTING FUSE CAT. NO. KTN-R-15 OR EQUAL.
CARLON TOGGLE SWITCH BACK BOX AND COVER CAT. NO. B112HB AND HB1SW OR EQUAL.
LONG LIFE PHOTO ELECTRIC CONTROL WITH SURGE PROTECTOR AS PER SPECIFICATION 504.
INTERMATIC 12 HOUR SPRING WOUND TIMER CAT. NO. FF312H OR EQUAL. CARLON TOGGLE SWITCH BACK BOX CAT. NO. B112HB OR EQUAL.

CONTROL ENTRANCES, SIZES AS SHOWN IN PROJECT PLANS

CONDUIT ENTRANCES, SIZES AS SHOWN IN PROJECT PLANS

THREE RELAY CONTROL CABINET WITH 3 P.E.C.'S

REVISION
DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

THREE RELAY CONTROL CABINET WITH 3 P.E.C.'S

SCHEDULE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"

LEVEL: NT S

SCHEDULE: 1 1/2" = 1'-0"

DRAWING NO.

REV.

DESCRIPTION

DEPARTMENT OF TRANSPORTATION
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15
See Note 6

#2 Bare Tinned Copper Cable from Ground Rod See Note 7

24 Hour Service Legs Where Required (See Note 8) to Lighting Load From Service to Underdeck Lights When Needed

Neutral Bus Bar

6" 3 1/4" 3" 1 1/2" 3 1/2" 1 1/2" 6"

1-1/2"x3/8" Galvanized Steel Strap, 29 1/2" Long

3"x3/8" Galvanized Steel Strap, 29 1/2" Long

Control Cables as Shown on Plans

#1-1/4"x1-1/4"x1/4" Angle Extensions, Welded to Box

See Note 6

Notes:

1. Control Cabinet Shall be 39"x39"x12" Hot Dipped Galvanized Steel NEMA 4 Enclosure with Hinged Door and Locking Device as Per NYC DOT Street Lighting Standard Drawing CC-010_4. Benefield or Equal.


3. For Service Mounting of Cabinet and Door Detail See NYC DOT Street Lighting Standard Drawing CC-002.

4. For Pedestal Mounting on Cabinet See NYC DOT Street Lighting Standard Drawing CC-004_2.

5. P.E.C.'s To Be Installed on Nearest Light Poles or As Called For on Plans.

6. Fuse Block and Wiring To Be Installed Only When Under Deck Lighting is Required at or Around Cabinet Location. Fuse and Fuse Block Varies Depending on Underdeck Lighting Load.

7. Contractor Shall Furnish and Install Grounding Bushing at Service Entrance to Control Cabinet. Furnish and Install Ground Wire and Bond Neutral to Cabinet.

8. No. and Size of 24 Hours Wires Shall Conform to Plans and Could be Off of Any Phase. If Wires of 24 Hours Are Larger Than Load Circuits Then 24 Hours Circuit Shall Have Its Own Compatible Neutral and Grounding Wires.

9. If Each Circuit is Going from Control Cabinet to Separate Ground Wire and Neutral Wire.

10. Cabinet Dimensions May Vary As Per Approved Manufacturer.

Electrical Equipment to be Furnished and Installed (Cabinets, Boxes, Conduit & Wiring Not Listed)

120 Vac 100 Amps Single Pole Normally Opened Mercury Relay MDI Cat. No. 100 NO-120A or Equal.

Class R Bussmann 3 Pole 100A Fuse Block Cat. No. R50100-3 or Equal, 100A Bussman Fast Acting Fuses Each Cat. No. F120V, 250V or Equal.

Leverton Lamp Holder Dev. 600 Model No. 975 Or Equal, Carbon Lamp Holder Back Box Cat. No. ARMA OF OR EQUAL.

Bussman 3 Pole 60V Dev. Fuse Block Cat. No. R5030-60 or Equal, Bussman 10A Fast Acting Fuse Cat. No. KTN-10A or Equal.

Bussman 1 Pole 50V Dev. Fuse Block Cat. No. K75-50-1 or Equal, Bussman 10A Fast Acting Fuse Cat. No. KTN-10-1 or Equal.

Carlon Toggle Switch Back Box and Cover Cat. No. B112HB and BS1SW or Equal.

Long Life Photo Electric Control with Surge Protector As Per Specification 504.

Intermatic 12 Hour Spring Wound Timer Cat. No. FF312H or Equal, Carlon Toggle Switch Back Box Cat. No. B112HB or Equal.

(Conduits, Cables, Conduit & Wiring Not Listed)

2-3/8"x1/8" Copper Bearing Steel Strap, Welded to Right Hand Door

7/32 Dia. Holes

7/16 Dia. Holes

3'-3"

1/4"

1/4"

1/4"

12"
1. Control cabinet shall be 36"x30"x11" hot-dipped galv. Steel NEMA - 4 enclosure with hinged door and locking device.

2. For grounding see NYC DOT street lighting standard drawings CC-009.

3. Contractor shall furnish and install grounding bushing at service entrance to control cabinet. Furnish and install ground wire (#6) and bond neutral to cabinet.

4. For surface mounting details see NYC DOT street lighting standard drawings CC-009.

5. For flush mounting details see NYC DOT street lighting standard drawing CC-013.

6. For electrical equipment in control cabinet see NYC DOT street lighting standard drawing CC-007.

7. For 6 relay pole mounting control cabinet dimensions may vary.

8. Control box and wiring

9. 3/8" dia. stainless steel chase nipple required.

10. 2" dia. steel city chase nipple required.

11. 2" locknut required.

12. 1/2" dia. drain hole at low point.

13. Control entrance not required.

14. 1/2" dia. hole for 2" chase nipple.

15. 2 required.

16. 1/2" dia. hole for 2" conduit.

17. 36"x30"x11" side elevation.

18. Scale: 1" = 1'-0".

19. Notes:

20. For 6 relay pole mounting control cabinet dimensions may vary.
3/8" STANDARD ALLEN KEY
(LONG ARM)
FURN. ONE (1) KEY WITH EACH CONTROL CABINET
SCALE: 6" = 1'-0"

NOTE:
DETAILS C, D & E TO BE STEEL PLATE, HOT DIPPED GALVANIZED AFTER FABRICATION.

SEE DETAIL A

FLUSH CONTROL CABINET
SCALE: 1" = 1'-0"

SECTION A-A

DETAIL C
SCALE: 1" = 1'-0"

DETAIL D
SCALE: 1" = 1'-0"

DETAIL E
SCALE: 1" = 1'-0"

SECTION B-B
SCALE: 1" = 1'-0"

SECTION B-B
NOT SHOWN IN DETAIL ON THIS DWG.

LOCKING DEVICE FOR CONTROL CABINET
3/8" STANDARD ALLEN KEY
FURN. ONE (1) KEY WITH EACH CONTROL CABINET
SCALE: 6" = 1'-0"
NOTE: THIS DIMENSION BECOMES 1" FOR CONTROL CABINET WITHOUT CENTER BAR

1. FOR INOPERATIVE LOCKS OF EXISTING CONTROL CABINET, USE MODIFICATION ON NYC DOT STREET LIGHTING STANDARD DRAWING CC-010_3.
ANGLES AND COVER SHALL BE H.D. GALV. STEEL.

AFTER WELDING ANGLES AND COVER ON DOORS, WELD AREAS SHALL BE PAINTED WITH ZINC RICH PAINT.

PADLOCK SHALL BE MASTER # A389 TO SUIT N.Y.C. #9 KEY CHANGE # 47, OR APPROVED EQUAL.

THIS MODIFICATION APPLIES TO EXISTING CABINETS WITH INOPERATIVE LOCKS.
DOOR - HOT DIPPED GALV. STEEL OR CAST IRON

WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

EXPAND AFTER ASSEMBLY

BOSS HOT DIPPED GALV. STEEL OR BOSS MAY BE CAST INTEGRAL WITH COVER ON CAST BOX

LATCH - HOT ROLLED GALV. STEEL

NOTE:
1. LATCH LOCK MAY BE USED ON CONTROL CABINETS AND NYC DOT STREET LIGHTING STANDARD DRAWING BOX-005

NOTE:
1. LATCH LOCK MAY BE USED ON CONTROL CABINETS AND NYC DOT STREET LIGHTING STANDARD DRAWING BOX-005.
MATERIAL: 1/4" BOILER PLATE STEEL
FINISH: H.D. GALVANIZED AFTER ASSEMBLY

NOTES:
1. SHED REQ'D ON CABINETS DETAILED ON NYC DOT STREET LIGHTING STANDARD DRAWINGS CC-001, CC-002, CC-003, CC-004, CC-005, CC-006, AND CC-013.
FLUSH MOUNTED 3 RELAY
CONTROL CABINET

NOTE:
1. THIS INSTALLATION IS NOT STANDARD AND SHALL BE SUBJECTED TO CONTRACT PLANS AND STREET LIGHTING APPROVALS.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y. 11101

NEW YORK CITY DOT STREET LIGHTING STANDARD DRAWINGS
2019-10-30

H-2803

REVISION

DRAWING NO.

AS NOTED

SCALE: 1 1/2" = 1'-0"

SECTION C-C

SCALE: 1 1/2" = 1'-0"

SECTION D-D

SCALE: 1 1/2" = 1'-0"

SECTION E-E

SCALE: 3" = 1'-0"

F.G. CLOVER CO., STYLE #778, OR EQUAL.

1 1/2" x 5" - #18 GA. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

1 1/2" x 5" - #18 GA. BRASS NAME PLATE WITH RAISED LETTERS RIVETED TO DOOR, PAINTED AFTER INSTALLATION.

2 - 1 1/4" x 1 1/4" x 1/4" G.I. ANGLE RIVETED TOGETHER

3/8" R. H. MACH. SCREWS

1/2" EXP. BOLT, 3" LONG

3" x 3" x 3/8" G.I. ANGLE ALL AROUND BOX, TO BE RIVETED

1/8" LEAD GASKET

TAP & DRILL FOR 3/8" R.H. MACHINE SCREW

3" x 3/8" G.L. ANGLE ALL AROUND BOX, TO BE RIVETED

1/8" LEAD GASKET

TAP & DRILL FOR 3/8" R.H. MACHINE SCREW

1 1/2" x 1 1/2" x 1/4" ANGLE 2" LONG WELDED TO DOOR

MITERED JOINTS AT CORNERS TO BE WELDED

RENovable CENTER BAR 2 - 1 1/4" x 1 1/4" x 1/4" G.I. ANGLE, RIVETED TOGETHER

1 1/2" x 1/4" x 1/2" ANGLE, 2" LONG WELDED TO DOOR

1/8" LEAD GASKET

TAP & DRILL FOR 3/8" R.H. MACHINE SCREW

3/4" DIA. COPPER TUBING DRAIN
INSTALL AT LOW POINT OF CABINET

RUBBER GASKET 1/8" THICK TO SEAL BOX & DOOR

1/8" LEAD GASKET

TAP & DRILL FOR 3/8" R.H. MACHINE SCREW

1/8" LEAD GASKET

1/8" LEAD GASKET

1/8" LEAD GASKET

REMOVABLE CENTER BAR

2 - 1 1/4" x 1 1/4" x 1/4" G.I. ANGLE

RUBBER GASKET 1/8" THICK ALONG BOX AND SEPARATE 1/8" THICK RUBBER GASKET OVER REMOVABLE CENTER BAR, GASKET TO FRAME WITH AN APPROVED RUBBER CEMENT.

NOTE:
1. THIS INSTALLATION IS NOT STANDARD AND SHALL BE SUBJECTED TO CONTRACT PLANS AND STREET LIGHTING APPROVALS.
INSTALLATION INSTRUCTIONS
FOR EXTENSION SHAFT ON M-2 POST

THE PROCEDURE SHALL BE AS FOLLOWS:

1. PLACE SECURE TEMPORARY CLAMP UNDER TOP TRAFFIC POLE CLAMP "D2" AND "B2".

2. REMOVE "B2" HALF CLAMP FACING SIGNAL.

3. RELEASE LOAD FROM POLE BY MOVING BACK CLAMP "D2" AND CROSS ARM TOGETHER WITH 1/2" ROSES TEC. BACK SURFACE BOLT TO PERMIT SHAFT EXTENSION TO SLIDE ON USING SUFFICIENT RIGGING.

4. SLIDE SHAFT EXTENSION IN PLACE AND SPRING CLAMP TO TOP OF TEMPORARY CLAMP.

5. RELAX BACK CLAMP "D2" AND CROSS ARM TOGETHER WITH 1/2" ROSES TEC. TIGHTEN BOLTS SECURELY MAKING SURE SHAFT EXTENSION IS TIGHT AGAINST TRAFFIC POLE.

6. REPLACE "B2" HALF CLAMP FACING SIGNAL AND TIGHTEN BOLTS SECURELY MAKING SURE SHAFT EXTENSION IS TIGHT AGAINST MOUNTING TRAFFIC ARM.

7. REMOVE TEMPORARY CLAMP UNDER "D2" AND "B2" AND ALL OTHER RIGGING.

IN NO WAY SHALL THIS TRAFFIC POLE BE DISTURBED EXCEPT AS SPECIFIED ABOVE.

NOTES:

1. MAT'L OF SHAFT EXTENSION: LOW ALLOY HIGH STRENGTH STEEL, COR-TEN, NAX, MAYARI, OR EQUAL.

2. HARDWARE: FURNISH 4 WASHERS (DETAIL "B") WITH EACH SHAFT EXTENSION, MAT'L: AL-6061 OR AL-1100.

3. FINISH: SHAFT EXTENSION AND POLE PLATE ASSEMBLY TO BE HOT-DIPPED GALVANCISED AFTER FABRICATION.

4. NO HARDWARE OTHER THAN THE 4 WASHERS IS REQUIRED WITH EACH SHAFT EXTENSION.

5. N.I.C.: NOT IN CONTRACT. I.E. NOT FURNISHED WITH SHAFT EXTENSION.

FOR TWIN ARM CONSTRUCTION WHERE REQUIRED

FOR DETAIL ACCORDING TO NYC DOT STANDARD DRAWING LP-001
NOTES:
1. DRAWING SHOULD BE USED AS CONCEPTUAL DETAILS.
2. EXACT DETAILS SHOULD CONFORM TO CONTRACT'S STRUCTURE DETAILS AND CONDITIONS. REFER TO CONTRACT PLANS.
3. FINAL DETAILS FOR EACH CONTRACT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL OF STREET LIGHTING ENGINEERING.
COMBINATION DEFLECTION AND EXPANSION FITTINGS

FOR EXPANSION JOINTS IN CONCRETE AND IN STRUCTURES

EXPANSION FITTING

(SEE NOTES 1, 2)

CONDUIT EXPANSION FITTING

FOR TWO INDEPENDENT STRUCTURES

EXPANSION FITTING

(SEE NOTES 1, 2)

CONDUIT NIPPLE

(SEE NOTE 7)

BONDING JUMPER

(SEE NOTES 3, 4)

CONDUIT CLAMP

(TYP.)

(SEE NOTE 6)

U-BOLT AND SADDLE

(TYP.)

PVC SLEEVE MINIMUM 2" LARGER THAN CONDUIT

L-BOLT AND SADDLE

(TYP.)

CONDUIT

EXPANSION AREA

CONDUIT NIPPLE

(SEE NOTE 7)

BONDING JUMPER

(SEE NOTES 3, 4)

STRUCTURE #1

STRUCTURE #2

EXPANSION FITTING

(SEE NOTES 1, 2)

EXPANSION AND DEFLECTION FITTING

(OR ALTERNATE INSTALLATION METHOD)

ONLY IF SPECIFIED IN PLANS

CONDUIT EXPANSION FITTING

CONDUIT NIPPLE

(SEE NOTE 7)

BONDING JUMPER

(SEE NOTES 3, 4)

CONDUIT CLAMP

(TYP.)

(SEE NOTE 6)

U-BOLT AND SADDLE

(TYP.)

EXPANSION AREA

CONCRETE

UNDERSIDE OF DECK

CONSTRUCTION AREA

FOR EXPANSION JOINTS IN CONCRETE AND IN STRUCTURES

EXPANSION FITTING

(SEE NOTES 1, 2)

CONDUIT NIPPLE

(SEE NOTE 7)

BONDING JUMPER

(SEE NOTES 3, 4)

CONDUIT CLAMP

(TYP.)

(SEE NOTE 6)

U-BOLT AND SADDLE

(TYP.)

EXPANSION AREA

CONCRETE

UNDERSIDE OF DECK

CONSTRUCTION AREA

NOTES:

1. FOR 2" LINEAR MOVEMENT IN EITHER DIRECTION, EXPANSION FITTING SHALL BE AS PER SPRING CITY TYPE AF, OZ/GEDNEY TYPE AX, OR CROUSE HINDS TYPE XJG.

2. FOR 4" LINEAR MOVEMENT IN EITHER DIRECTION, EXPANSION FITTING SHALL BE AS PER SPRING CITY TYPE EF, OZ/GEDNEY TYPE AX8, OR CROUSE HINDS TYPE XJG.

3. TINNED COPPER BRAID BONDING JUMPER SHALL BE AS PER SPRING CITY TYPE AJ/EJ, OZ/GEDNEY TYPE BJ-14/BJ-24, OR AS REQUIRED.

4. EXTERNAL BONDING JUMPER IS NOT REQUIRED WHERE CROUSE HINDS EXPANSION FITTING TYPE XJG (WITH INTERNAL GROUNDING) IS UTILIZED.

5. EXPANSION AND DEFLECTION FITTING SHALL BE AS PER SPRING CITY TYPE DF, OZ/GEDNEY TYPE DX, OR CROUSE HINDS TYPE XD.

6. CONDUIT SHALL BE FIRMLY ATTACHED TO STRUCTURE BY APPROVED CLAMPS.

7. CONDUIT NIPPLE OF APPROPRIATE SIZE SHALL BE PROVIDED TO CONNECT THE TWO FITTINGS.

8. EXPANSION FITTING MAY BE UTILIZED INDIVIDUALLY ACROSS EXPANSION JOINTS IN STRUCTURE WHERE DEFLECTION IS NOT EXPECTED AND AS DIRECTED BY THE ENGINEER.

9. EXPANSION AND DEFLECTION FITTING MAY BE UTILIZED INDIVIDUALLY BETWEEN TWO SECTIONS OF CONDUIT TO DAMPEN VIBRATION AND AS DIRECTED BY THE ENGINEER.

10. MANUFACTURERS INSTRUCTIONS FOR INSTALLATION OF DEFLECTION AND EXPANSION FITTINGS SHALL BE FOLLOWED.

11. CONTRACTOR SHALL FOLLOW STREET LIGHTING PLANS FOR EXACT TYPE OF FITTING TO BE USED.
1. MATERIAL ~ #23 B. & S. GAUGE ALUMINUM.

2. ADDITIONAL HOLE IN PLATE AND STAINLESS STEEL SCREW TO BE PROVIDED AT APPROXIMATELY MIDPOINT WHEN NUMBER OF LETTERS AND DIGITS EXCEED FIVE (5).

3. AS AN ALTERNATIVE, MATERIAL COULD BE 0.03" ALUMINUM WITH 5/64" ENGRAVED ALPHANUMERIC.

4. EXACT ALPHANUMERIC TO CONFORM TO CONTRACT'S STREET LIGHTING PLANS.
NOTES:
1. SIZE AND NO. OF CONDUCTORS AS CALLED FOR ON CONTRACT PLANS.
2. 2" CONDUIT, CONDUCTORS AND WEATHERHEAD AS REQUIRED FOR UNDERGROUND SERVICE INDICATED ON CONTRACT PLANS.
3. METHOD OF ATTACHMENT, GROUNDING AND FUSING ARE AS CALLED FOR ON CONTRACT PLANS.
4. THIS DRAWING IS CONCEPTUAL. FOR EXACT DETAILS, FOLLOW STREET LIGHTING PLANS.
INSTALLATION DETAILS

OVER ANCHOR BOLTS

MALLEABLE IRON FOUNDATION COUPLING

1" DIA. STAINLESS STEEL STUD

LAMPPOST BASE PLATE

2-1/4" O.D.x11/32" THK. COMPOSITION WASHER

STAINLESS STEEL WASHERS

1/2" THICK VIBRATION PAD

INSTALLATION DETAILS ON TOP OF TRANSFORMER BASE

STAINLESS STEEL WASHER

2-1/4" O.D.x11/32" THK. COMPOSITION WASHER

LAMPPOST BASE PLATE

1/2" THICK VIBRATION PAD

INSTALLATION DETAILS OVER ANCHOR BOLTS

SCALE: 6" = 1'-0"
NOTES:

1. ALL STEEL HARDWARE SHALL BE HOT DIPPED GALV.; EXCEPT AS NOTED.

2. CONTRACTOR INSTALLING FLOOD LIGHTS SHALL FURNISH AND INSTALL THE NECESSARY FLOODLIGHT MOUNTING EQUIPMENT AT EACH LOCATION, EXCEPT AS NOTED.

3. DETAIL A (WITHOUT THE USE OF ELBOW AND NIPPLE) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST, IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING.

4. DETAIL A (WITHOUT THE USE OF ELBOW AND NIPPLE) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST, IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING.

5. DETAIL A (WITHOUT THE USE OF ELBOW AND NIPPLE) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST, IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING.

5. ALL STAINLESS STEEL HARDWARE SHALL BE STAINLESS STEEL PLATED; EXCEPT AS NOTED.

6. CONTRACTOR INSTALLING FLOOD LIGHTS SHALL FURNISH AND INSTALL THE NECESSARY FLOODLIGHT MOUNTING EQUIPMENT AT EACH LOCATION, EXCEPT AS NOTED.

7. DETAIL A (WITHOUT THE USE OF ELBOW AND NIPPLE) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST, IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING.

8. DETAIL A (WITHOUT THE USE OF ELBOW AND NIPPLE) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST, IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING.
NOTES:

1. CAST ALUMINUM POLE CAP MATERIAL SHALL BE ALUMINUM ALLOY NO. 43.
2. CAST IRON POLE CAP MATERIAL SHALL BE AS PER NEW YORK CITY SPECIFICATION CLASS 25 OR HIGHER.
3. ALL SET SCREWS SHALL BE ANSI 303 STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A320.
**DETAIL A: MOUNTING ON ALUMINUM LAMPPOST**

- Use 1/2" - 13 stainless steel bolts and lockwashers to attach to new cap.

**NOTE:**
- Use 1/2" - 13 stainless steel bolts and lockwashers to attach new cap.
- Drill 1/2" hole through cap on one side of cap. Through bolt is required at top where 1/2" aluminal shaft extension is equipped with thread nut. Where M-2 shaft extension has drilled and tapped holes, through bolt is not required.
- Drill (4) 1/2" holes in cap in line with holes in shaft extension.
- New aluminal cap, hot dipped galvanized steel, cast iron, N.Y.C. spec. Class 23 or higher to fit over octagonal shaft extension.

**DETAIL B: MOUNTING ON M-2 SHAFT EXTENSION**

- Remove traffic post cap where existing and return to traffic dept. storeyard.
- Use existing 1/2" to 3 SQ HD. COP POINT SET SCREW, STAINLESS STEEL and lockwashers.

**NOTE:**
- Use existing 1/2" to 3 SQ HD. COP POINT SET SCREW, STAINLESS STEEL and lockwashers.

**NOTES:**
1. For mounting PEC's receptacle on aluminal lamppost, item shall be aluminal with round pole cap and aluminal pipe if required.
2. At each location, contractor shall install either a single floodlight or a throughhole arm with two floodlights, as per contract plans.
3. Contractor shall furnish and install the necessary floodlight mounting equipment shown at each location, except as noted.
4. Where single floodlight is installed, contractor shall also furnish and install a 1" pipe nipple, heavy wall type with two locknuts, all hot dipped galvanized steel.
NOTES:

1. FOR MOUNTING PEC'S RECEPTACLE ON ALUMINUM LAMPPOST, ITEM SHALL BE ALUMINUM WITH ROUND POLE CAP AND ALUMINUM PIPE (IF REQUIRED). SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-009.

2. FOR WIRING DIAGRAM OF FLOODLIGHTS SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS SL-MIS-015_1 AND SL-MIS-015_2.

3. AIMING OF FLOODLIGHTS SHALL BE AS PER CONTRACT PLANS.

4. FOR ALTERNATE METHOD OF MOUNTING FLOODLIGHT ON STEEL POLE OR FLOODLIGHT MOUNTING ON WOOD POLE SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-007.

5. FOR MOUNTING ON ALUMINUM LAMPPOST OR M-2 SHAFT EXTENSION, CHANGE REDUCER AND PIPE IN ACCORDANCE WITH NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-009.

| 1" STAINLESS STEEL EXTRA STRONG NIPPLE WITH CADMIUM PLATED STEEL LOCKNUTS |
| 2" TO 1" HOT DIPPED GALV. STEEL REDUCER |
| 1/4" - 20 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL |

| 1/2" - 13 STAINLESS STEEL BOLTS & LOCKWASHERS |

| 2" HOT DIPPED GALV. STEEL CONDUIT |

| 1/2" DIA. THROUGH HOLE THROUGH POLE CAP |

| 3/8" DIA. STAINLESS STEEL THROUGH BOLT |

| 1" PIPE PLUG CADMIUM PLATED STEEL |

| 2" HOT DIPPED GALV. STEEL LOCKNUT |

| POLE CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-015 (SEE NOTE 1) |

| 1/2" DIA. POLE THROUGH HOLE |

| CAP ON ONE END FOR 3/8" DIA. STAINLESS STEEL THROUGHBOLT WITH NUT & LOCKWASHER |

| DRILL SHFT IN FIELD FOR THROUGH HOLE |

| STEEL SHAFT |

| NOTE: REMOVE REGULAR POLE CAP WHERE EXISTING AND RETURN TO NYC DOT STREET LIGHTING STOREYARD. USE 1/2" - 13 STAINLESS STEEL BOLTS & LOCKWASHERS TO ATTACH CAP. (FOR PHOTOCCELL OR FLOODLIGHT) |

| MOUNTING OF FLOODLIGHT ON OCTAGONAL FABRICATED STEEL POST |

| TRIM NOTE 4 |

| AREAS NOT ADDED, REMOVE BURRS |

| AREAS NO ADDED, REMOVE BURRS |

| NEW YORK CITY DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30 |

| DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING 34-02 QUEENS BLVD L.I.C. N.Y.11101 |

| MOUNTING ON STEEL LAMPPOST |
NOTE:
1. FOR WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
2. FOR MOUNTING ON ALUMINUM LAMPPOST OR M-2 SHAFT EXTENSION. CHANGE REDUCER AND PIPE IN ACCORDANCE WITH NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-009.

- HOT DIPPED GALV. STEEL REDUCER (SEE NOTE 1)
- 2" TO 1" HOT DIPPED GALV. STEEL CONDUIT (SEE NOTE 1)
- 1/4" - 20 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL
- 2" HOT DIPPED GALV. STEEL LOCKNUT
- 2" STEEL SHAFT (SEE NOTE 1)
- 1" STAINLESS STEEL EXTRA STRONG STEEL LOCK NUTS
- 3' 7 PIN PEC RECEPTACLE

NOTE: REMOVE REGULAR POLE CAP WHERE EXISTING AND RETURN TO NYC DOT STREET LIGHTING STOREYARD. USE 1/2" - 13 STAINLESS STEEL BOLTS & LOCKWASHERS TO ATTACH CAP.

FOR PHOTOCELL OR FLOODLIGHT

THREE-UNIT PEC MOUNTING BRACKET WITH ADAPTERS ON TOP OF SHAFT

WHERE ADDITIONAL HEIGHT IS REQ'D

WHERE NO ADDITIONAL HEIGHT IS REQ'D

- STEEL SHAFT (SEE NOTE 1)
- 2" TO 1" REDUCING BUSHING, STL, D.I.
- POLE CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-011 (SEE NOTE 1)
- DRILL 1/2" DIA. HOLE THROUGH CAP ON FOR 3/8" DIA. STAINLESS STEEL THROUGH BOLT WITH NUT & LOCKWASHER, DWELL SHAFT IN FIELD FOR THROUGH BOLT.

DRAWING NO. REVISION
34-02 QUEENS BLVD L.I.C., N.Y. 11101
DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING
NEW YORK CITY NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
MOUNTING OF PHOTOCELL ON FABRICATED STEEL POST
FABRICATED STEEL POST
OLD DRAWING NO. DRAWING NO.
SCALE
N.T.S.
J-5229 SL-MIS-011
1. Box stanchions shall be bonded to conduit grounding bushing by means of #6 bare tinned stranded copper wire.

2. Wrap #6 wire around stanchion bolt, place wire between wall and stanchion, then tighten bolt to assure good contact between wire and stanchion.
GROUNDING OF METALLIC BOXES NOTES

1. PROVIDE DOUBLE LOCKNUTS AND GROUNDING BUSHING, O.Z. TYPE GB OR EQUAL, AT ALL CONDUIT ENTRANCES, CONNECT ALL GROUNDING BUSHING TO BURNDY TYPE K2C GROUND STUD, OR EQUAL, IN WALL OF BOX WITH A #6 BARE, TINNED, STRANDED COPPER WIRE.
2. WHEN CONDUITS ARE INSTALLED WITH A SLIPFIT CONNECTION TO BOX DUE TO EXPANSION AND CONTRACTION, PROVIDE GROUNDING BUSHING, O.Z. TYPE GB OR EQUAL, AT ALL CONDUIT ENTRANCES, LOCKNUTS NOT REQUIRED, CONNECT GROUNDING BUSHING TO BURNDY TYPE K2C GROUND STUD, OR EQUAL, IN WALL OF BOX WITH A #6 BARE, TINNED, STRANDED COPPER WIRE.
3. WHEN CONDUIT PASS THROUGH AN EXPANSION JOINT A BONDING JUMPER SHALL BE INSTALLED.

NOTES:

1. ALL CONDUITS ENTERING BOXES OR CONTROL CABINETS SHALL HAVE A BRONZE GROUNDING BUSHING TYPE "GB", O.Z. ELECTRIC COMPANY OR EQUAL.
2. GROUNDING ROD shall be 17/8" COPPERWELD, O.Z. ELECTRIC, CAT. # K8348 OR EQUAL.
3. NUMBER AND SIZE OF WIRES AND CONDUITS SHALL BE AS PER CONTRACT PLANS.
4. ALL BOXES USED AT PARKS (OR AS CALLED FOR IN CONTRACT PLANS), THERE SHALL BE AN RFID MARKER AS PER 3M "BALL MARKERS" NO. "3M ID BALL MARKED 1428-XR/ID", OR APPROVED EQUAL.
5. CONCRETE ROADWAY BOX

#2 BARE, STRANDED TINNED, COPPER CABLE (IN SEPARATE 1" CONDUIT, FOR 277/480 VOLT OR HIGHER VOLTAGE SYSTEMS) (IN SAME CONDUIT AS DISTRIBUTION CABLES FOR 120/208 VOLT SYSTEMS). GROUND WIRE SIZE COULD BE LARGER AS PER PLANS (MAX 3/0 AWG).

PROPERTY LINE BOX AS PER NYC DOT STREET LIGHTING STANDARD DRAWINGS, DRAWING NO. SL-MIS-013
NOTES:

1. Foundation to be poured in place after installation of grounding rod & 2" conduit bends.

2. Grounding rod shall be 10x3/4" Copperweld Joslyn Mfg. Co. Cat # J8348 or equal.

3. Second elbow (conduit) ends shall be packed with duct weather seal.

4. 2" conduit and elbow bend shall be 24" below grade for single feed posts; or 18" below grade for group distribution.

5. Bonding wire between ground rod and K2C shall be NO. 6 AWG bare tinned stranded copper wire.

6. All ground wires shall be bare tinned stranded copper; with size as indicated in street lighting plans.

7. Ground rod shall be one inch above conduit grounding bushing.
#12 BARE, TINNED, STRANDED COPPER CABLE

IN LINE FUSE HOLDER BUSSMAN HEZ (OR APPROVED EQUAL) WITH 15 AMP FUSE BUSSMAN KTK-R (OR APPROVED EQUAL)

# 12 CABLES

IN LINE HOLDER NON FUSED BUSSMAN HEZ OR APPROVED EQUAL

# 6 COPPER CABLE (NEUTRAL)

# 6 COPPER CABLE (PHASE)

K2C GROUNDING STUD

#6 BARE COPPER GROUNDING WIRE

BRONZE GROUNDING BUSHING

TIE

FOUNDATION

LAMPPOST

SERVICE CONDUIT

NOTES:

1. FEEDER SHALL BE TIED TO CONDUIT WITH TIE WIRE.

2. FOR TWIN LUMINAIRE ADDITIONAL FUSE HOLDER 65 U WITH FUSE IS REQUIRED.

3. INCOMING SERVICE (GROUP DISTRIBUTION) CABLES:
   - FOR SINGLE ARM LAMPPOST IT SHALL BE WITH (1) CABLE (N), (1) CABLE Ø, (1) CABLE G
   - FOR TWIN ARM LAMPPOST IT SHALL BE WITH (1) CABLE (N), (2) CABLE Ø, (1) CABLE G

#6 BARE COPPER CABLE (GROUND)
FOR TWIN ARMS LAMPPOST, USE PEC WIRING NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-016.

FEEDER SHALL BE TIED TO CONDUIT WITH TIE WIRE.

INCOMING SERVICE (DISTRIBUTION) CABLES:
- FOR SINGLE ARM LAMPPOST IT SHALL BE WITH (1) CABLE N, (1) CABLE Ø, (1) CABLE G
- FOR TWIN ARM LAMPPOST IT SHALL BE WITH (1) CABLE N, (2) CABLE Ø, (1) CABLE G

NEW FOUNDATION SHALL INCLUDE NEW GROUNDING ROD REFER TO DRAWING SL-MIS-013

NOTES:

1. FOR TWIN ARMS LAMPPOST, USE PEC WIRING NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-016.
2. FEEDER SHALL BE TIED TO CONDUIT WITH TIE WIRE.
3. INCOMING SERVICE (DISTRIBUTION) CABLES:
   - FOR SINGLE ARM LAMPPOST IT SHALL BE WITH (1) CABLE N, (1) CABLE Ø, (1) CABLE G
   - FOR TWIN ARM LAMPPOST IT SHALL BE WITH (1) CABLE N, (2) CABLE Ø, (1) CABLE G
A. 120 Volts A.C., 35 Ampere Single Pole Normally Closed Relay, in Pendant Mount Thermoplastic Enclosure with Minimum Inside Dimensions of 7 5/8" Height, 2 13/16" Width, and 3" Depth.

B. Waterproof Inline Fuseholder, Elastomold #85U, Bussman HEB with RC-8 Receptacle on Line Side, or Equal, with 15 Ampere Fuse.

C. Waterproof Non-Fused Connector, Elastomold Catalog 20U, or Equal, Socket Side shall be Connected to Load Side so that Male Contact Stays in Line Side on Disconnect.

NOTES:


B. Waterproof Inline Fuseholder, Elastomold #85U, Bussman HEB with RC-8 Receptacle on Line Side, or Equal, with 15 Ampere Fuse.

C. Waterproof Non-Fused Connector, Elastomold Catalog 20U, or Equal. Socket Side shall be Connected to Load Side so that Male Contact Stays in Line Side on Disconnect.

NOTES:


B. Waterproof Inline Fuseholder, Elastomold #85U, Bussman HEB with RC-8 Receptacle on Line Side, or Equal, with 15 Ampere Fuse.

C. Waterproof Non-Fused Connector, Elastomold Catalog 20U, or Equal. Socket Side shall be Connected to Load Side so that Male Contact Stays in Line Side on Disconnect.
WOOD POST

3/4", 2 #12 WIRES

SERVICE

WEATHERHEAD CAP

CLAMP ATTACHED

WITH LAG SCREWS

(5' APART AND STARTING 3' ABOVE GROUND)

2" STEEL CONDUIT HOT

DIPPED GALVANIZED

CABLES BY OTHERS

OVERHEAD FEED

UNDERGROUND FEED

TERMINAL BOARD

INSIDE COBRAHEAD LUMINAIRE

PRED RECEPTACLES

IN LUMINAIRE

(ONLY MAIN 3 RECEPTACLE LEADS ARE SHOWN; 3 OR 7 PIN RECEPTACLE)

3 #12 AWG

TO LUMINAIRE

(OR AS APPROVED MANUFACTURE DESIGN)

TERMINAL BOARD

INSIDE COBRAHEAD LUMINAIRE

FROM UTILITY

3 #12 AWG

TO LUMINAIRE

(OR AS APPROVED MANUFACTURE DESIGN)

TERMINAL BOARD

INSIDE COBRAHEAD LUMINAIRE

SERVICE FOR WOOD POLE

BRACKET ARM(S)

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS,
2019-10-30

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO.

NEW DRAWING NO.

SCALE:

REVISION

DESCRIPTION

DRAWING NO.

DATE

NO

SHEET

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS,
2019-10-30

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO.

NEW DRAWING NO.

SCALE:

REVISION

DESCRIPTION

DRAWING NO.

DATE

NO

SHEET
EXISTING SERVICE FROM UTILITY CO. (PHASE AND NEUTRAL WIRES)

STREET LIGHTING BRACKET AND LUMINAIRE

UTILITY WOOD POLE

UNDERGROUND INSTALLATION TO WOOD POLE

3 # 12 (SEE NOTE NO. 2)

WEATHER HEAD

CLAMP ATTACHED WITH LAG SCREWS

1 1/2" STEEL CONDUIT (H.D.G.) (SEE NOTE 3)

TERMINAL BOARD IN LUMINAIRE

PRO RECEPTACLE IN LUMINAIRE (ONLY 3 MAIN RECEPTACLE LEADS ARE SHOWN; 3 OR 7 PIN RECEPTACLE)

3 #12 AWG TO LUMINAIRE

FROM UTILITY CO.

TERMINAL BOARD IN LUMINAIRE

3 # 12 WIRING DIAGRAM

(WIRING DIAGRAM (TO OTHER STREET LIGHTING LOAD [10 AMP MAX]) THROUGH WEATHERHEAD, OR DIRECTLY TO LUMINAIRE ON ADJACENT 90° ARM)

NOTES:

1. CONTRACTOR SHALL MAKE ALL CONNECTIONS OF WIRES TO TERMINAL BOARD IN LUMINAIRE HOUSING

2. CABLES FROM EXISTING LIGHTING FIXTURE TO WEATHERHEAD SHALL BE PLACED IN GROUND MOLDING (WOOD)

3. RISER INSTALLATIONS ARE PERMITTED ONLY ON UTILITY POLES WITH STREET LIGHTING BRACKET, SHALL BE MOUNTED ON THE SIDE OF POLE OPPOSITE TRAFFIC, AND SHALL NOT BE INSTALLED ON POLES WITH EXISTING RISERS.

REPLACE EXISTING FUSE HOLDER WITH 2 INLINE FUSE HOLDER BUSSMAN HZ (OR APPROVED EQUAL) WITH 15 AMP KTK-R (OR APPROVED EQUAL)

REPLACE EXISTING FUSE HOLDER WITH 2 INLINE FUSE HOLDER BUSSMAN HZ (OR APPROVED EQUAL) WITH 15 AMP KTK-R (OR APPROVED EQUAL)
3/4" SERVICE ENTRANCE CAP.

1 1/2" STEEL CONDUIT, HOT DIPPED GALV.

SIDEWALK

BEND

2" STEEL CONDUIT, HOT DIPPED GALV. TO BE CAPPED 18" BEYOND CURB LINE (OR AS PER CONTRACT PLANS)

6'

BOX, HOT DIPPED GALVANIZED STEEL INSIDE AND OUTSIDE, WITH HINGED COVER AND STD N.Y.C. LOCK

3 MALLEABLE IRON PIPE CLAMPS WITH EXPANSION BOLTS, 1/4" MIN. SIZE

CONDUIT OFFSET LOCKNUTS AND BUSHINGS

GROUNDING STUD
SIZE 5/16"x18

(2) #6 CABLES BY OTHERS

NOTES:
1. WIRING AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-017 DIAGRAM 2.

FUSE BOX WIRING DETAIL

FUSE BOX

IN-LINE FUSE HOLDER BUSSMAN HEZ (OR APPROVED EQUAL) WITH 15 AMP FUSE BUSSMAN K76-R (OR APPROVED EQUAL)

GROUNDING BUSHING

GROUNDING STUD

WALL

6 MAX

SIDEWALK

TYPICAL INSTALLATION OF STREET LIGHTING WALL BRACKET ARM ON WALL (OR STRUCTURE)
NOTES:

1. MATERIAL: HOT DIPPED GALVANIZED STEEL.

2. TWO (2) 5/8" DIAMETER SQ. H.D. BOLTS x 14" LG. WITH SQUARE NUTS, ALL HOT DIPPED GALVANIZED STEEL, SHALL BE FURNISHED WITH EACH ADAPTER. LENGTH OF BOLTS SHALL BE CUT TO APPROX. 1 1/2" LONGER THAN DIAMETER OF POLE AT ADAPTER LOCATION, ON INSTALLATION. TWO (2) MALLEABLE IRON CURVED WASHERS, WITH RADIAL REINFORCED RIB DESIGN AND BOSS AROUND HOLE FOR 5/8" BOLT, SHALL ALSO BE FURNISHED WITH EACH ADAPTER. WASHERS SHALL BE AS SHOWN IN VIEW LABELED "WASHER ALTERNATIVES" AND SHALL BE EQUAL TO MALLEABLE IRON FITTINGS CO. CAT NO. P120 OR P143.

3. INSTALLATION NOTE: HEAD OF BOLT SHALL BE AGAINST ADAPTER, WITH NUT AND WASHER ON SIDE OF POLE 180 DEGREES FROM ARM LOCATION, END OF BOLT SHALL NOT CREATE HAZARD TO WORKMAN ON POLE.
LOCKING DEVICE
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING CC-010_4

GRADE
SERVICE SIDE CONDUIT
to junction boxes
SEE DETAIL A

KINDORF BASE
CHANNEL OR EQUAL

CAST IRON OR STEEL JUNCTION BOX

SERVICE SIDE CONDUIT, CAPGED 1'-6"
BEYOND CURB LINE & 1'-6" BELOW
GRADE FOR PICKUP BY UTILITY CO.

CONTROL CABINET
MOUNTING DETAIL

SERVICE SIDE CONDUIT.

SERVICE SIDE CONDUITS FROM PROPERTY
LINE BOX CONDUIT & WIRING DETAILS
SHALL BE AS PER CONTRACT PLANS.

SERVICE SIDE CONDUIT

CAST IRON OR STEEL JUNCTION BOX

CONTROL CABINET
MOUNTING DETAIL

SERVICE SIDE CONDUIT

CAST IRON OR STEEL JUNCTION BOX

CONTROL CABINET
MOUNTING DETAIL

SERVICE SIDE CONDUIT

CAST IRON OR STEEL JUNCTION BOX

CONTROL CABINET
MOUNTING DETAIL

SERVICE SIDE CONDUIT
UNLOADED ARM SHALL HAVE APPROX. 2° INCLINATION ABOVE HORIZONTAL.

NOTES:
1. CENTER POINT FOR DRILLING 2" DIA. HOLE IN SHAFT TO BE DONE BY CONTRACTOR INSTALLING ARM, WHO SHALL ALSO FURNISH AND INSTALL GROMMET.
2. CONTRACTOR INSTALLING ARM SHALL ALSO DRILL TWO CLEAR HOLES IN SHAFT ALIGNED WITH LOCATING PINS.
3. LED COBRA HEAD LUMINAIRE SHALL BE USED OR AS PER CONTRACT PLANS.
4. FOR NEW INSTALLATION, SHAFT SHALL BE MADE WITH 2 ARM PLATE; ONE FOR STREET SIDE ARM AND ANOTHER FOR SIDEWALK ARM.

NEW YORK CITY DEPARTMENT OF TRANSPORTATION
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34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO. H-5199
DRAWING NO. SL-MIS-022

SCALE: 3" = 1'-0"
MAT'L: H.D. GALV. STEEL

DETAIL OF "U" BOLT
2 REQ'D WITH EACH ADAPTER
WITH 4 HEX NUTS EACH BOLT
SCALE: 2" = 1'-0"
MAT'L: 3/8", GALV. STEEL

DETAIL OF ADAPTER, SEE DETAIL
LOCATION ON SHAFT AS PER
CONTRACT PLANS.
SCALE: 3" = 1'-0"
MAT'L: H.D. GALV. STEEL

DRILL & TAP 1/2"-13, 3 HOLES FOR 1/2" LONG STAINLESS CAP SCREWS WITH LOCK WASHERS.

LOCATING PIN WELDED ALL AROUND (SEE NOTE 2).

FOR MOUNTING OF COBRAHEAD LUMINAIRE OR AS PER PLANS.
2" STANDARD H.D. GALV. STEEL PIPE.
DRILL 1 1/2 DIA. HOLE IN SHAFT, ROUNDED EDGES, CONCENTRIC WITH 1 1/4" DIA. HOLES IN POLE PLATE.

HOT DIPPED GALV. STEEL U-BOLT

SEE DETAIL BELOW

SECTION X-X

(Shown on shaft with U-bolts in place)

NOTES:
1. FOR POLE PLATE DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARMS-001.
2. CENTER POINT FOR DRILLING 2" DIAM. HOLE IN SHAFT, PROVIDE GROMMET, TO BE DONE BY CONTRACTOR INSTALLING ARM.
3. ADAPTER SHALL BE HOT DIPPED GALVANIZED STEEL.
4. WELD TWO 1/2" DIAMETER BY 1" LONG STEEL LOCATING PINS IN ADAPTER PLATE, DRILL TWO CLEAR HOLES IN SHAFT ALIGNED WITH LOCATING PINS.
NOTES:

1. FOR POLE PLATE DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARM-001.

2. CENTER POINT FOR DRILLING 2" DIAM. HOLE IN SHAFT, PROVIDE GROMMET. TO BE DONE BY CONTRACTOR INSTALLING ARM.

3. ADAPTER TO BE H.D. GALV. WHEN FABRICATED.

4. ADAPTER MAY ALSO BE USED TO MOUNT STEEL ARM ON FLAT MASONRY WALL. DRILL 4 HOLES IN WALL ALIGNED WITH SLOTTED HOLES IN STEEL PLATE, AND INSERT SPLIT CINCH ANCHORS FOR 3/8" DIAM. BOLTS. CONTRACTOR FABRICATING ARM SHALL PROVIDE CINCH ANCHORS 3/8" BOLTS AND LOCKWASHERS.

5. WELD TWO 1/2" DIAMETER BY 1 1/4" LONG STEEL LOCATING PINS IN ADAPTER PLATE, DRILL TWO CLEAR HOLES IN SHAFT ALIGNED WITH LOCATION PINS.

INSTALLATION UNDER ELEVATED STRUCTURE

SCALE: N.T.S.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD               L.I.C., N.Y. 11101

NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD               L.I.C., N.Y. 11101

NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS

REVISION

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ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS

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ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS

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NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS

REVISION

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NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

ADAPTER FOR MOUNTING STEEL ARM AT VARIOUS HEIGHTS
NOTES:
1. FOR POLE PLATE DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING AR-001.
2. AT CENTER POINT FOR DRILLING 2" DIA. HOLE IN SHAFT PROVIDE GROMMET. TO BE DONE BY CONTRACTOR.
3. ADAPTER ASSEMBLY. CHANNEL, PIN, 5/8" BOLT & HEX NUTS TO BE HD. GALV.
4. AFTER TIGHTENING BOLTS ON BOLT, CUT OFF BOLT 1/2" BEYOND OUTER NUT.
5. WHEN USING THE ADAPTER ON TAPERED 7" TO 4" x 22'-3" LONG ALUMINUM SHAFT. MINIMUM MOUNTING HEIGHT THAT CAN BE ATTAINED IS 18'-2".
6. WHEN USING THE ADAPTER ON TAPERED 8" TO 4" x 25'-0" LONG ALUMINUM SHAFT. MINIMUM MOUNTING HEIGHT THAT CAN BE ATTAINED IS 22'-10".
7. WHEN MOUNTING TWIN ARMS ON SHAFT, INSTEAD OF THE TWO 1/2" DIA. U-BOLTS USE FOUR 1/2" - 13 x 9" LONG HEX HEAD BOLTS WITH 3" THREAD LENGTH AND 2 HEX NUTS ON EACH BOLT AND NUTS TO BE HD. GALV. STEEL.
NOTES:
1. FOR POLE PLATE DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARN-001.
2. AT CENTER POINT FOR DRILLING 2" DIA. HOLE IN SHAFT PROVIDE GROMMET. TO BE DONE BY CONTRACTOR.
3. ADAPTER ASSEMBLY, CHANNEL, PIN, U-BOLT & HEX NUTS TO BE H. D. GALV. STEEL.
4. AFTER TIGHTENING NUTS ON BOLT, CUT OFF BOLT 1/2" BEYOND OUTER NUT.
5. WHEN USING THIS ADAPTER ON TAPERED 7" TO 4" x 22'-3" LONG ALUMINUM SHAFT. MINIMUM MOUNTING HEIGHT THAT CAN BE ATTAINED IS 14'-1".
6. WHEN USING THIS ADAPTER ON TAPERED 8" TO 4" x 25'-0" LONG ALUMINUM SHAFT. MINIMUM MOUNTING HEIGHT THAT CAN BE ATTAINED IS 18'-3".
7. WHEN MOUNTING TWIN ARMS ON SHAFT, INSTEAD OF THE TWO 1/2" DIA. U-BOLTS USE FOUR 1/2" - 13 x 9" LONG HEX HEAD BOLTS WITH 3" THREAD LENGTH AND 2 HEX NUTS ON EACH BOLT AND NUTS TO BE H. D. GALV. STEEL.
OVERHEAD SERVICE FROM EXISTING STANDARD TAPERED OCTAGONAL STEEL LAMPPOST

CROSSE-HINDS TYPE F SERVICE HEAD FORM 8 WITH 5 WIRE (5 K.O.) PHENOLIC COVER, CAT. NO. F-385, OR EQ.

- STD. 1" NIPPLE
- STD. 2"x1" BUSHING, H.D. GALV.

- STD. 1" LONG, H.D. GALV.

POLIC HEAD FORM 8

WEATHERHEAD

SCALE: N.T.S.

SET SCREW

POLE CAP

MODIFIED POLE CAP

2 #6 SPLICE

CONNECTION BURNDY KSU 22

5/8" BOLT 1" LG. WITH NUT & WASHER

STRAIN INSULATOR

WEATHERHEAD

SCALE: N.T.S.

3/4" DIA.

1 1/8" DIA.

3 3/8" DIA.

3/8" DIA.

11/16" DIA.

1/4" DIA.

4 1/4" DIA.

3/16" DIA.

SCALE: 6" = 1'-0"
OBTAIN LUMINARE MOUNTING HEIGHT BY ADDING TRANSFORMER BASE HEIGHT OF 1'-8" AND ARM RISE OF 1'-10" (2'-6" MINUS 8") TO CUT SHAFT LENGTH.

POLE CAP ASS'Y TO USE

LENGTH OF SHAFT

| TYPE | 20'-0" | 22'-3" | 25'-0"
|------|--------|--------|--------
| "A"  | 7'-7 1/4" to 9'-1 15/16" | 9'-10 1/4" to 11'-4 15/16" | 12'-1 5/16" to 13'-8 15/16"
| "B"  | 9'-2" to 13'-3 15/16" | 11'-5" to 15'-6 15/16" | 13'-9" to 18'-1 7/16"
| "C"  | 13'-4" to 20'-0" | 15'-7" to 22'-3" | 18'-1 1/2" to 25'-0"

NOTE: INSIDE DIAMETER SHALL VARY AS FOLLOWS:

TYPE "A" - 7" INSIDE DIA.

TYPE "B" - 6" INSIDE DIA.

TYPE "C" - 5" INSIDE DIA.

POLE CAP ASSEMBLY

SCALE: 120.0°

#6-32 x 1/2" LONG FL. HD. MACH. SCREW, ST'L SS. STL. (2) REQ'D

DRILL & TAP #6-32 HOLE, 180° O.C.

7 PIN PEC RECEPTACLE

MIN. OF 12" LONG LEADS, #12 WIRE STRANDED, XLL, 600V, 125°C RATING, STRIP WIRES 1".

NOTE: INSIDE DIAMETER SHALL VARY AS FOLLOWS:

TYPE "A" - 7" INSIDE DIA.

TYPE "B" - 6" INSIDE DIA.

TYPE "C" - 5" INSIDE DIA.
EXISTING CONTROL CABINET. SEE NOTES 1 AND 2.
CHASE CONCRETE TO FIT 3/4" CONDUIT BENEATH CONTROL CABINET. CEMENT PATCH CHASED AREA. EXCEPT FOR SURFACE MTG. CONTROL CABINET.

3/4" CONDUIT 3 #12
CHASE CONCRETE TO FIT 3/4" CONDUIT BENEATH CONTROL CABINET, CONDUIT PATCH CHASED AREA, EXCEPT FOR SURFACE MTG. CONTROL CABINET.

2' DIRECTION OF CONDUIT AS SHOWN ON CONTRACT DRAWINGS.

NOTES:
1. FOR 6 RELAY CONTROL CABINET WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-008.
2. FOR 3 RELAY CONTROL CABINET WIRING SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-007.
3. ILLUSTRATIONS ARE ALL DIAGRAMMATIC AND EXACT DETAILS SHALL FOLLOW STREET LIGHTING PLANS.

NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-13
PHOTOCELL PLACEMENT FOR CONTROL CABINET
N.T.S. H-5207
SL-MIS-030

DETAIL A (FOR REFERENCE ONLY)
1) P.E.C., CONVERSION OF CONTROL CABINET IN PKWY UNDERPASS & PIER SUPPORT

DETAIL B (FOR REFERENCE ONLY)
1) P.E.C., CONVERSION OF CONTROL CABINET IN VAULT BUILDING

DETAIL C FOR NEW INSTALLATIONS
P.E.C. OF CONTROL CABINET IN CONCRETE PEDESTAL

DETAIL D FOR NEW INSTALLATION
P.E.C. OF SURFACE MOUNT CONTROL CABINET IN HIGH PIER OVERPASS

EXISTING VAULT BUILDING

SEE CONTRACT DRAWINGS FOR EXISTING MET. LAMPPOST & VAULT.
1 1/2" CONDUIT 7 #12
CHASE CONCRETE TO FIT CONDUIT, CEMENT PATCH CHASED AREA. CONDUIT COULD ALSO BE SURFACE MOUNTED AS PER STREET LIGHTING PLANS.
8" 17/8"
1 3/4"
4 1/4"
1/2"
1/4"
1/4"
1/2"
6 3/4"
3 3/8"
7/32"
5/8"
2 1/2"
1"
1/4"
1/4"
1/4"
1/2"
1/2" DIAMETER HOLE IN DOOR
1/2" - 13 NC - 2X 1" LG. BUTTON HD. SOCKET SCREW, STAINLESS STEEL.
7/8" DIA., EMBOSSED, 1/8" DEEP FOR HEAD OF SCREW ROUNDED
LATCH - 1/4" THK., 1" WIDE, STEEL, H.D. GALV.

NOTES:
1. PROVIDE ONE ALLEN WRENCH FOR DOOR SCREW WITH EACH 100 DOORS ON ORDER.
HOT ROLLED STEEL

HEX NUT TO BE TAPPED
1/8” OVER-SIZE, AFTER
GALVANIZING (NOT
SHOWN IN SIDE VIEW)

NOTES:

1. ANCHOR BOLT IS TO BE HOT DIPPED
   GALVANIZED AT THREAD END FOR
   MINIMUM DISTANCE OF 6”.

2. ROLLED THREAD MAY BE SUBSTITUTED
   FOR CUT THREAD. STOCK FOR ROLLED
   THREAD SHOULD BE MINIMUM OF 29/32”.

3. FOR USE ONLY WITH FOLLOWING
   NYC DOT STREET LIGHTING STANDARD DRAWINGS
   FDN-001, FDN-002 AND FDN-024.

SIDE ELEVATION

END ELEVATION
HANDHOLE DETAILS

MATERIAL:
STEEL, HOT DIPPED GALVANIZED AFTER FABRICATION

FRONT VIEW

SIDE VIEW SECTION

"A"

TYPE LAMPPOST

HDG 20' FABRICATED STEEL SHAFT AS PER NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

HDG TYPE "WF" FABRICATED STEEL SHAFT AS PER NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

HDG 20' FABRICATED STEEL SHAFT AS PER NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

COVER OPENING

"A" "B" "C" "D"

3 1/2" 3" 5 1/2" 5"

3 1/2" 6 1/2" 3" 6"

4 1/2" 4" 7" 6 1/2"

BAR SHOWN IN UNLOCKED POSITION

COVER, #11 GA.

FRAME BUTT WELD CONTINUOUS WELD

POLE

FRAME

BAR, 3/4" x 5/16", WITH 1/4" x 20 S. & T.

POLE FRAME COVER

SIDE VIEW SECTION

FRONT VIEW

HANDHOLE DETAILS

MATERIAL:
STEEL, HOT DIPPED GALVANIZED AFTER FABRICATION
TYPICAL INSTALLATION FOR HIGH VOLTAGE DUCT LINE

GRADE 2' - 0" (MIN.)

LOW VOLTAGE CONDUIT AND CABLE

(2) 4" H.D.G. STEEL CONDUIT

Spare

CONCRETE ENVELOPE
(1:2:4)

3 CABLES, 5000 V.
1 CABLE, 600 V.

SECTION THROUGH DUCTS & ENVELOPE

CONTRACTOR SHALL AVOID EXISTING DRAINAGE PIPES

DRAWING NO.

REVISION

DESCRIPTION

BY

DATE

NO

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS,
2019-10-30

TYPICAL INSTALLATION FOR
HIGH VOLTAGE DUCT LINE

SCALE
OLD DRAWING NO.
DRAWING NO.

6" = 1'-0"
D-5050
SL-MIS-034
NOTES:

1. MATERIAL OF COVER SHALL BE HOT DIPPED GALVANIZED STEEL.

2. THICKNESS OF COVER SHALL BE #22 GA. (0.0299").

3. FURNISH (4) 1/4" DIA. ROUND HEAD STAINLESS STEEL SELF-TAPPING SCREWS WITH EACH COVER. SCREWS SHALL BE 1/2" LONG WITH PHILLIPS RECESS AND A.N.S.I. TYPE B THREAD FORM (BLUNT POINT, SPACED THREAD).

INSTALLATION NOTE:

BEFORE ATTACHING COVER TO LAMPOST, DRILL FOUR MATCHING PILOT HOLES IN POST FOR THE SELF-TAPPING SCREWS.
ASSEMBLY A
(4 REQUIRED PER POLE)
FOR TYPE 40' ALUMINUM POLES
(SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-015)

1. HEX BOLT COUPLINGS SHALL BE GREASED OR ANTI-SIEZE COMPOUNDED.

NOTE:

1. HEX BOLT COUPLINGS SHALL BE GREASED OR ANTI-SIEZE COMPOUNDED.
**NOTE:**

1. Hex bolt couplings shall be greased or anti-seize compounded.
GALLERY DRAWINGS
TAPERED OCTAGONAL LAMPPOST (88)
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

LED COBRA HEAD (SPEC 466)
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

40' ALUMINUM
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-015

LED EXPRESSWAY (SPEC 473)

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101
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DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y.11101

NEW YORK CITY DOT

PIC-003
BISHOP CROOK LAMPPPOST
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-028_1

TEAR DROP LUMINAIRE SPEC 472
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LUM-002

TYPE F LAMPPPOST
SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-030_1

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C. N.Y. 11101

NEW YORK CITY LAMPPPOST - LUMINAIRE GALLERY

REVISION

NEW YORK DOT

SCALE OLD DRAWING NO. DRAWING NO.

N.T.S. PIC-004
**FIFTH AVENUE LAMPOST**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LP-035

**TEAR DROP LUMINAIRE (SPEC 472)**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LUM-002

**CITY HALL LAMPOST**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LP-036

**TEAR DROP LUMINAIRE (SPEC 472)**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LUM-002
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**TYPE B LAMPPOST**

**CENTRAL PARK LUMINAIRE (SPEC 465)**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWINGS: LUM-005_1 AND LUM-005_2

**RIVERSIDE LUMINAIRE (SPEC 465)**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING: LUM-003

**TYPE B LAMPPOST**
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING: LP-022_1
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REFERENCE DRAWINGS
NOTES:

BALLAST COMPARTMENT AND CAP MATERIAL
MADE OF CAST ALUMINUM (356 ALLOY) TEMPERED TO A T6 CONDITION. THE CASTING SHALL BE OF UNIFORM WALL THICKNESS WITH NO WARPING OR MOLD SHIFTING AND SHALL BE FORMED TRUE TO THE ORIGINAL PATTERN WITH COMPLETE DETAILS.

REFRACTOR MATERIAL:
STACKED INJECTION MOLDED ACRYLIC MULTI-PRISM RINGS INDIVIDUALLY GASKETED.

DIFFUSER MATERIAL:
1/8" MILK-WHITE ACRYLIC.

HARDWARE:
STAINLESS STEEL.

BALLASTS:
(2) 150 WATT ICETRON QUICKTRONIC BALLASTS (QT1X150 ICE/UNV-T)
VOLTAGE: 120V-277V UNIVERSAL.

LAMP LEADS:
SYLVANIA ICETRON 2P CONNECTORS, AS PROVIDED WITH LAMP.

FUSE:
STANDARD IN-LINE FUSE (120V).

LAMPS:
(2) 150 WATT OSRAM SYLVANIA ICETRON OR EQUIVALENT LED LUMINAIRE

LIGHT DISTRIBUTION:
IES TYPE IV (TYPE III OR IV FOR LED LUMINAIRE)

PHOTO CONTROL:
TWIST-LOCK TYPE RECEPTACLE WITH A 15-MINUTE DELAY TIMER (PHOTOCELL BY OTHERS)

FINISH:
2 COATS OF ELECTROSTATICALLY APPLIED THERMOSET POLYESTER POWDER-COAT WITH XL4 FOUR PART CORROSION INHABITING PROCESS.

COLOR:
PPG ALK 300/201 LOW VOC ACRYLIC MODIFIED ALKYD ENAMEL - LG, TINTED TO PPG COLOR PCU 73101.
REMOVE PAINT FROM POLE AT INTERFACE WITH NUT TO PROVIDE POSITIVE CONNECTION

INSTALL 5/16" X 18 BRONZE SQUARE HEAD NUT AND WELD TO POLE SHAFT

GROUNDING STUD BURNDY TYPE K2C (CATALOG #K2C20B1) OR EQUAL

COUNTERBORE HOLE IN THE DOOR FOR THE 1/4" UNC TAMPER RESISTANT HEX SCREW

COUNTERBORE HOLES FOR M12 STAINLESS STEEL HEX-SOCKET CUP SCREW

3X20/16 UNC THREAD COUNTERBORE HOLES @ 120° DECALATION

5/16" - 18 BRONZE NUT AS NEEDED

NOTE:
MATERIAL: CAST DUCTILE IRON
HARDWARE: STAINLESS STEEL
FINISH: 2 COATS OF ELECTROSTATICALLY APPLIED THERMOSET POLYESTER POWDER-COAT WITH XL4 FOUR PART CORROSION INHABITING PROCESS.
COLOR: PPG 200/201 LOW VOC ACRYLIC MODIFIED ACRYLIC ENAMEL - LG, BLACK,
PPG COLOR PC 828, OR AS SPECIFIED BY NYC DOT STREET LIGHTING ENGINEERING.

CONTRACTOR TO INSURE LIGHTING POLE IS GROUNDED IN ACCORDANCE WITH CITY OF NEW YORK, DEPARTMENT OF TRANSPORTATION, DIVISION OF STREET LIGHTING GUIDELINES AND REGULATIONS.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y.11101

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019

REF-002_2

SECTIONS:
1/2" = 1'-0"

ELEVATION
SCALE: 1/2" = 1'-0"

ELEVATION
SCALE: 1/2" = 1'-0"

BOTTOM VIEW
SCALE: 1/2" = 1'-0"

ISOMETRIC
SCALE: 1/2" = 1'-0"
OPTICAL:
TEARDROP LED MODULE WITH DIFFERENT REFRAKTORS AND REFLECTOR CAN BE PLACED TO CREATE DIFFERENT LIGHT DISTRIBUTIONS.

FINISH:
ALL COMPONENTS SHALL BE FINISHED WITH HIGH GLOSS SUPER DURABLE POLYESTER POWDER COAT PAINT TO BE APPLIED UTILIZING A MULTI-STAGE PROCESS THAT INCLUDES PHOSPHATE PRETREATMENT, ELECTROSTATIC POWDER APPLICATION, AND CONVECTION CURING.

LED:
LUMINAIRE WATTAGE: 105W MAX

NOTE:
1. LUMINAIRE SHALL CONFORM TO STREET LIGHTING SPECIFICATION NO. 475.
NOTES:
1. Base and parts to be hot-dip galvanized steel.
2. Pole shaft shall be ASTM A-570 Grade 40. Base plate shall be ASTM A-36. Cap shall be cast aluminum. All steel shall be hot-dipped galvanized.
3. Finish shall be architectural bronze standard Armortane or equal.
4. Pole shall be equipped with strain relief device for wiring head pole cap.

OUTLINE OF SHAFT BASE PLATE

1/2" DIA. HOLE IN DOOR

5/32" ANCHOR BOLT
LUG (4) REQ. PER BASE W/ 7/8" DIA. HOLE 3/4" THK/STL.

SECTION AL-A
SCALE: 3" = 1'-0"

A

N.Y.C. CITY 2012

VIEW C
SCALE: 3" = 1'-0"

SECTION B-B
SCALE: 3" = 1'-0"

BASE COVER DETAIL
SCALE: 3" = 1'-0"

SECTIONAL VIEW OF DOOR NUT RETAINER (FILLET WELD TO DOOR)
Screw, Nut & Screw Retainer to be 316 stainless steel.

1 1/2"-13 BUTTON HEAD SOCKET SCREW APPROX (1.125" L. WITH DOG PT. FOR ALIGNING NUT AND RETAINER 2 REAL SET SCREW) SHALL BE 3/8" NORMAL WITHIN 3/16" HOLE.

NOTE: NO WELDING SHALL BE PERMITTED ON THE FRONT FACE OF THE BASE.

1 1/2" 45° ANGLED BOLT PER BASE, WITH DETAIL WASHER, HEX NUT, & COUPLING SCREW.

1/2" SQUARE THREAD SHIM — 6 PCS. PER BASE

1/2" DRAIN GROOVE 20" SQUARE

FRONT ELEVATION
STEEL TRANSFORMER BASE
SCALE: 3" = 1'-0"

SHIFT:
3/4" DIA. STEEL BOLT WITH NUT
3/4" COUPLING
CONT. WELD
4 7/16" DIA.

YEAR OF MF'G
13 3/8"
14-1/2"
8 5/8"
2 15/16"
5/8" R1 9/16"
2 5/8"
7 5/16"
1/16" 1/4"
1/16"
1 1/4"
9/16" 9/32"
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NOTES:

1. SPUN ALUMINUM HOUSING, 16" DIA., 0.062" MIN. GAUGE
2. LAMP, 150 WATT 100VOLTS (H.P.S.)
3. CAST ALUMINUM SLIPFITTER
4. BALLAST ASSEMBLY AND TERMINAL BLOCK
5. LAMP SOCKET
6. POLYCARBONATE REFRACTOR, TYPE V OR TYPE II
7. POLYCARBONATE OUTER LENS (CLEAR)
8. LATCH (2) REQUIRED
9. OUTER LENS HINGE
10. SEALING GASKET
11. 3/8", 16 SET SCREWS
12. ALUMINUM REFLECTOR
13. REFLECTOR - HEAT BAFFLE PLATE
14. SUPPORT RING

FIG. 1
REFER TO LATEST DOT SPECIFICATION NO. 445 "SPHERICAL LUMINAIRE TYPE V" FOR ADDITIONAL DATA AND REQUIREMENTS

FIG. 2
REFER TO LATEST DOT SPECIFICATION NO. 446 "SPHERICAL LUMINAIRE TYPE II" FOR ADDITIONAL DATA AND REQUIREMENTS

NEW YORK CITY DOT
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO.
SCALE:
NEW DRAWING NO.
REVISION: N.T.S.
THIS DRAWING IS FOR REFERENCE ONLY. NO NEW INSTALLATIONS.

LAMP POST SPECIFICATIONS

STYLE: MADISON TWO PIECE MODIFIED LAMPPOST WITH EASTERN PARKWAY FINIAL

HEIGHT: 9'-10"

BASE: 18 1/2" DIAMETER

MATERIAL: 2 PIECE HEAVY WALL CAST IRON PER A.S.T.M. A 48-83 CLASS 30

FINISH: SEE PAINT NOTE BELOW

ACCESS DOOR: LOCATED IN BASE SECURED WITH TAPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

GROUND STUD: DRILL AND TAP WALL OF BASE OPPOSITE ACCESS DOOR TO ACCOMMODATE 5/16" - 18 GROUND STUD (STUD BY OTHERS)

ANCHOR BOLT: (4) 1" DIA. (SUPPLIED BY OTHERS)

BOLT PROJECTION: 3" REQUIRED

PROJECTION: 10 7/8" X 3 3/8"

1/4" - 20 TAPPED HOLE

SECTION D-D

SCALE 1:1/8" = 1'-0"

SECTION B-B

SCALE 3:1 = 1'-0"

SECTION C-C

SCALE 3:1 = 1'-0"

SECTION X-X

SCALE 3:1 = 1'-0"

SECTION A-A

SCALE 3:1 = 1'-0"

SECTION B-B

SECTION THROUGH DOOR OPENING ON LINE B-B SHOWING TOP AND BOTTOM LEVEL

SECTION X-X

SCALE: 3/4" = 1'-0"

SECTION D-D

SCALE: 3/4" = 1'-0"

NOTE:

THE PURCHASER AND/OR CONTRACTOR RELEASES SPRING CITY ELECTRICAL MANUFACTURING FROM ANY GUARANTEES REGARDING THE FINAL CONDITION OF THE FINISH PAINT ON ANY COMPONENTS WHEN THEY ARE RECEIVED AT THE JOB SITE. SPRING CITY WILL FURNISH TOUCH UP PAINT FOR TOUCH UP PURPOSES AFTER INSTALLATION BY CONTRACTOR.

PAINT SPECIFICATIONS (INTERIOR AND EXTERIOR)

PRIME COAT:

ONE COAT ZINC RICH PRIMER - SHERWIN WILLIAMS ZINC CLAD #1 44699W (SINGLE COMPONENT)

INTERMEDIATE COAT:

ONE COAT INTERMEDIATE EPOXY POLYAMIDE PRIMER - SHERWIN WILLIAMS ALL WEATHER EPOXY PRIMER (ULTRA DEEP GREEN) B62W400 (2 COMPONENT)

FINISH COAT:

ONE COAT ACRYLIC POLYURETHANE ENAMEL - FEDERAL GREEN #14036 SHERWIN WILLIAMS HI SOLID POLYURETHANE ENAMEL B65T304 (2 COMPONENT)

PLEASE NOTE:

THE PURCHASER AND/OR CONTRACTOR RELEASES SPRING CITY ELECTRICAL MANUFACTURING FROM ANY GUARANTEES REGARDING THE FINAL CONDITION OF THE FINISH PAINT ON ANY COMPONENTS WHEN THEY ARE RECEIVED AT THE JOB SITE. SPRING CITY WILL FURNISH TOUCH UP PAINT FOR TOUCH UP PURPOSES AFTER INSTALLATION BY CONTRACTOR.
**LAMP POST SPECIFICATIONS**

**STYLE:**
MADISON STEEL WITH EASTERN PARKWAY MODIFIED FINIAL

**HEIGHT:**
14'-0"

**BASE:**
18 1/2" DIAMETER

**MATERIAL:**

**SHAFT:**
9 GAUGE, 8 FLUTE STEEL MONOTUBE CONSTRUCTION

**BASE:**
1 PIECE, HEAVY WALL CAST DUCTILE IRON PER A.S.T.M. A536 IN GRADE 65-45-12

**FINISH:**
SEE PAINT NOTE BELOW

**ACCESS DOOR:**
LOCATED IN BASE TO COINCIDE WITH HAND HOLE IN STEEL SHAFT SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

**GROUND STUD:**
DRILL AND TAP INSIDE WALL OF BASE OPPOSITE ACCESS DOOR TO ACCOMMODATE A 5/16"-18 GROUND STUD (STUD BY OTHERS)

**ANCHOR BOLTS:**
(4) 1" DIA. (SUPPLIED BY OTHERS)

**BOLT PROJECTION:**
TENON: 2 3/8" DIA. X 3" HIGH (TO ACCEPT FINAL)

**SPRING CITY IPSMDY-18-8S-14-EPWNYC-CU-(TYPE HT-1B LP-20697)**

**CATALOG NO.:**

**PAINT SPECIFICATIONS (INTERIOR AND EXTERIOR):**

**PRIME COAT:**
ONE COAT ZINC RICH PRIMER - SHERWIN WILLIAMS ZINC CLAD #1 B69AW9 (SINGLE COMPONENT)

**INTERMEDIATE:**
ONE COAT INTERMEDIATE EPOXY POLYAMIDE PRIMER - SHERWIN WILLIAMS ALL WEATHER EPOXY PRIMER (ULTRA DEEP GREEN) B62W400 (2 COMPONENT)

**FINISH COAT:**
ONE COAT ACRYLIC POLYURETHANE ENAMEL - FEDERAL GREEN #14036 SHERWIN WILLIAMS HI SOLID POLYURETHANE ENAMEL B65T304 (2 COMPONENT)

**PLEASE NOTE:**
THE PURCHASER AND/OR CONTRACTOR RELEASES SPRING CITY ELECTRICAL MANUFACTURING FROM ANY GUARANTEES REGARDING THE FINAL CONDITION OF THE FINISH PAINT ON ANY COMPONENTS WHEN THEY ARE RECEIVED AT THE JOB SITE. SPRING CITY WILL FURNISH TOUCH UP PAINT FOR TOUCH UP PURPOSES AFTER INSTALLATION BY CONTRACTOR.
TRAFFIC ARM SPECIFICATIONS

- **STYLE:** EASTERN PARKWAY
- **HEIGHT:** 4'-0"
- **WIDTH:** 15'-0" FROM TOP OF POST TO TOP OF TRAFFIC SIGNAL
- **MATERIAL:** STEEL PIPE WITH CAST ALUMINUM ORNAMENTATION
- **FINISH:** PRIME PAINT THEN FINISH PAINT (SEE PAINT SPECIFICATIONS BELOW)

LAMP POST SPECIFICATIONS

- **STYLE:** MADISON STEEL WITH SIGNAL MOUNTING BRACKETS
- **HEIGHT:** 28'-3"
- **BASE:** 28" DIAMETER
- **MATERIAL FOR SHAFT:** 7 GAUGE, 8 FLUTE STEEL MONOTUBE CONSTRUCTION
- **MATERIAL FOR BASE:** 2 PIECE, (WRAP AROUND) HEAVY WALL CAST DUCTILE IRON PER A.S.T.M. A 536-84 GRADE 65-45-12
- **FINISH:** PRIME PAINT THEN FINISH PAINT (SEE PAINT SPECIFICATIONS BELOW)

ACCESS DOOR

- **ORNAMENTAL BASE:** LOCATED IN BASE TO COINCIDE WITH ACCESS DOOR IN PEDESTAL BASE
- **PEDESTAL BASE:** LOCATED IN MID SECTION
- **GROUND STUD:** 16"-18 TAPPED HOLE INSIDE PEDESTAL BASE NEAR ACCESS DOOR TO ACCOMMODATE PROVISIONS: GROUND STUD (GROUND STUD SUPPLIED BY OTHERS)
- **ANCHOR BOLTS:** ANCHOR BOLTS SUPPLIED BY OTHERS
- **TENON:** 2 7/8" DIA. X 3" HIGH (TO ACCEPT FINIAL)

SPRING CITY

- **IWBMEP-28-8S-28.25-EPW15-TRA1S-EPWNYC-CU-(TYPE HT-3 LP-27609)**
- **CATALOG NO.:** AS NOTED

PAINT SPECIFICATIONS

- **INTERIOR SURFACES:** PRIME PAINTED WITH TWO COATS OF ALKYD OXIDE PRIMER (TWO DIFFERENT COLORS) SHERWIN WILLIAMS KEM KROMIK METAL PRIMER (SINGLE COMPONENT) BUFF; B50H21, BROWN; B50N26
- **EXTERIOR SURFACES:**
  - **PRIME COAT:** PRIME PAINTED WITH ONE COAT OF ZINC-RICH PRIMER, SHERWIN WILLIAMS ZINC CLAD #1 B69AW9 (SINGLE COMPONENT)
  - **INTERMEDIATE COAT:** ONE COAT INTERMEDIATE EPOXY-POLYAMIDE PRIMER, SHERWIN WILLIAMS ALL WEATHER EPOXY PRIMER (ULTRA DEEP GREEN) B62W400 (2 COMPONENT)
  - **FINISH COAT:** ONE COAT ACRYLIC POLYURETHANE ENAMEL FEDERAL GREEN #14036, SHERWIN WILLIAMS HI-SOLID POLYURETHANE ENAMEL B65T304 (2 COMPONENT)

PLEASE NOTE:

- THE PURCHASER AND/OR CONTRACTOR RELEASES SPRING CITY ELECTRICAL MANUFACTURING FROM ANY GUARANTEES REGARDING THE FINAL CONDITION OF THE FINISH PAINT ON ANY COMPONENTS WHEN THEY ARE RECEIVED AT THE JOB SITE. SPRING CITY WILL FURNISH TOUCH UP PAINT FOR TOUCH UP PURPOSES.
TRAFFIC ARM SPECIFICATIONS

**STYLE:**
EASTERN PARKWAY

**HEIGHT:**
4'-0"

**WIDTH:**
20'-0" FROM OF POST TO OF TRAFFIC SIGNAL

**MATERIAL:**
STEEL PIPE WITH CAST ALUMINUM ORNAMENTATION

**FINISH:**
PRIME PAINT THEN FINISH PAINT (SEE PAINT SPECIFICATIONS BELOW)

LAMP POST SPECIFICATIONS

**STYLE:**
MADISON STEEL WITH SIGNAL MOUNTING BRACKETS

**HEIGHT:**
28'-3"

**BASE:**
28" DIAMETER

**MATERIAL FOR:**

- **SHAFT:**
  7 GAUGE, 8 FLUTE STEEL MONOTUBE CONSTRUCTION

- **BASE:**
  2 PIECE, (WRAP AROUND) HEAVY WALL CAST DUCTILE IRON PER A.S.T.M. A 536-84 GRADE 65-45-12

**FINISH:**
PRIME PAINT THEN FINISH PAINT (SEE PAINT SPECIFICATIONS BELOW)

**ACCESS DOOR IN:**
ORNAMENTAL BASE: LOCATED IN BASE TO COINCIDE WITH ACCESS DOOR IN PEDESTAL BASE

**PEDESTAL BASE:**
LOCATED IN MID SECTION

**GROUND STUD:**
5/16"-18 TAPPED HOLE INSIDE PEDESTAL BASE NEAR ACCESS DOOR TO ACCOMMODATE GROUND STUD (GROUND STUD SUPPLIED BY OTHERS)

**ANCHOR BOLTS:**
ANCHOR BOLTS SUPPLIED BY OTHERS

**TENON:**
2 7/8" DIA. X 3" HIGH (TO ACCEPT FINAL)

**SPRING CITY**
IWBMEP-28-8S-28.25-EPW26-TRA1S-EPWNYC-CU-(TYPE HT-4 LP-27610)

**CATALOG NO.:**

**PAINT SPECIFICATIONS**

**INTERIOR SURFACES:**
PRIME PAINTED WITH TWO COATS OF ALKYD OXIDE PRIMER (TWO DIFFERENT COLORS) SHERWIN WILLIAMS KEM KROMIK METAL PRIMER (SINGLE COMPONENT) BUFF; B50H21, BROWN; B50N26

**EXTERIOR SURFACES:**

- **PRIME COAT:**
  PRIME PAINTED WITH ONE COAT OF ZINC-RICH PRIMER, SHERWIN WILLIAMS ZINC CLAD #1 B69AW9 (SINGLE COMPONENT)

- **INTERMEDIATE COAT:**
  ONE COAT INTERMEDIATE EPOXY-POLYAMIDE PRIMER, SHERWIN WILLIAMS ALL WEATHER EPOXY PRIMER (ULTRA DEEP GREEN) B62W400 (2 COMPONENT)

- **FINISH COAT:**
  ONE COAT ACRYLIC POLYURETHANE ENAMEL FEDERAL GREEN #14036, SHERWIN WILLIAMS HI-SOLID POLYURETHANE ENAMEL B65T304 (2 COMPONENT)

**PLEASE NOTE:**
THE PURCHASER AND/OR CONTRACTOR RELEASES SPRING CITY ELECTRICAL MANUFACTURING FROM ANY GUARANTEES REGARDING THE FINAL CONDITION OF THE FINISH PAINT ON ANY COMPONENTS WHEN THEY ARE RECEIVED AT THE JOB SITE. SPRING CITY WILL FURNISH TOUCH UP PAINT FOR TOUCH UP PURPOSES.
NO. 10-32 x 1/2" L
FLAT HEAD HD.
M12 CAPTIVE
IN COVER (BT, STH)

STAINLESS STEEL
JAM NUT & ACORN
BOLT, (3/8" - 18) 3 AT 120°,

PHOTO ELECTRIC CELL - CASTING

SECTION C-C

ELEVATION

SECTION D-D

PLAN

2 1/2" SCH 80 STEEL PIPE
TO FIT TIGHTLY

CAST STEEL RING
THREADED FOR 2" NIPPLE
2" NIPPLE, 3" LONG,
FULLY THREADED (STEEL)

GASKET

TACK WELD 4 PLACES

R 3/8" 3 AT 120°

1 1/4"

R 4\16"

R 1 1/4"

R 2 1/2"

1 3/8"

1/2"

5 5/8"

5 1/4"

4 1/8"

3 5/8"

11/16"

1/8"

NO. 10-32 x 1/2" L
FLAT HEAD HD.
M12 CAPTIVE
IN COVER (BT, STH)

STAINLESS STEEL
JAM NUT & ACORN
BOLT, (3/8" - 18) 3 AT 120°,

PHOTO ELECTRIC CELL - CASTING

SECTION C-C

ELEVATION

SECTION D-D

PLAN

2 1/2" SCH 80 STEEL PIPE
TO FIT TIGHTLY

CAST STEEL RING
THREADED FOR 2" NIPPLE
2" NIPPLE, 3" LONG,
FULLY THREADED (STEEL)

GASKET

TACK WELD 4 PLACES

R 3/8" 3 AT 120°

1 1/4"

R 4\16"

R 1 1/4"

R 2 1/2"

1 3/8"

1/2"

5 5/8"

5 1/4"

4 1/8"

3 5/8"

11/16"

1/8"

NO. 10-32 x 1/2" L
FLAT HEAD HD.
M12 CAPTIVE
IN COVER (BT, STH)

STAINLESS STEEL
JAM NUT & ACORN
BOLT, (3/8" - 18) 3 AT 120°,

PHOTO ELECTRIC CELL - CASTING

SECTION C-C

ELEVATION

SECTION D-D

PLAN

2 1/2" SCH 80 STEEL PIPE
TO FIT TIGHTLY

CAST STEEL RING
THREADED FOR 2" NIPPLE
2" NIPPLE, 3" LONG,
FULLY THREADED (STEEL)

GASKET

TACK WELD 4 PLACES

R 3/8" 3 AT 120°

1 1/4"

R 4\16"

R 1 1/4"

R 2 1/2"

1 3/8"

1/2"

5 5/8"

5 1/4"

4 1/8"

3 5/8"

11/16"

1/8"
NOTES:

1. MATERIAL: LOW ALLOY HIGH STRENGTH STEEL, CORDEN OR EQUAL.

2. SHAFT EXTENSION TO BE H. D. G. AFTER FABRICATION.

3. PIERCE 1" DIA. HOLES IN EXTENSION TO MATCH 1/2" TAPPED HOLES IN POLE PLATE AND 1 1/2" DIA. HOLE TO MATCH 1 1/4" DIA. HOLE IN PLATE.

4. FOR INSTALLATION INSTRUCTIONS SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-001.
LUMINAIRE SPECIFICATIONS:

STYLE: HERITAGE PEDESTRIAN LUMINAIRE

HEIGHT: 36"

WIDTH: 13 5/8" DIAMETER

MATERIAL: CAST AND SPUN ALUMINUM

FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON, EDWARDIAN GREEN (SW # 1203)

LAMPING: 70 WATT METAL HALIDE (LAMP BY OTHERS)

VOLTAGE: 120 VOLT

SOCKET: MEDIUM BASE

DISTRIBUTION: TYPE B ASYMMETRIC

CROSS ARM SPECIFICATIONS:

STYLE: HERITAGE PEDESTRIAN ARM

HEIGHT: 1'-2 3/4"

WIDTH: 6'-0" FROM OF LUMINAIRE TO OF LUMINAIRE

MATERIAL: 1 1/2" SCH. 40 (1.9" O.D.) STEEL PIPE AND 3/4" SCH. 40 (1.05" O.D.) STEEL PIPE

FINISH: HOT DIP GALVANIZE TO A.S.T.M. A123 THEN PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

TENON: 2 3/8" DIA. X 3" HIGH (TO ACCEPT LUMINAIRE)

LAMP POST SPECIFICATIONS:

STYLE: HERITAGE (TYPE 2) STEEL ARM

HEIGHT: 18'-2"

LIGHT CENTER: 13'-6"

BASE: 21" OCTAGONAL

MATERIAL:

SHAFT:

OCTAGONAL STEEL MONOTUBE CONSTRUCTION

BASE:

2 PIECE (WRAP AROUND) HEAVY WALL CAST IRON

PER A.S.T.M. 48-83 CLASS 30

FINISH:

HOT DIP GALVANIZE TO A.S.T.M. A123 (SHAFT AND TRANSFORMER BASE ONLY) THEN PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

ACCESS DOOR:

LOCATED IN BASE SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

GROUND STUD:

PROVISIONS:

1/2" DIA. HOLE FOR GROUND STUD (STUD BY OTHERS)

ANCHOR BOLTS: 1" DIA. 55 KSI YIELD MIN. (SUPPLIED BY OTHERS)

SHAFT:

4" DIA. X 3" HIGH (TO ACCEPT FINIAL)

This drawing is for reference only.

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD               L.I.C., N.Y. 11101

NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS
2019-10-30

HERITAGE (TYPE 2) PEDESTRIAN LAMP POST WITH PEDESTRIAN ARM

AS NOTED

LP-25041

REF-008_2
LUMINAIRE SPECIFICATIONS:

STYLE: HERITAGE PEDESTRIAN LUMINAIRE
HEIGHT: 36"
WIDTH: 13 5/8" DIAMETER
MATERIAL: CAST AND SPUN ALUMINUM
FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACRYLIC ENAMELING GREEN (SW # 1203)
LAMPING: 70W METAL HALIDE (LAMP BY OTHERS)
VOLTAGE: 120 VOLT
SOCKET: MEDIUM BASE
DISTRIBUTION: TYPE III, ASYMMETRIC

FRONT ELEVATION

CROSS SECTION

CAST ALUMINUM FINIAL
1/4" - 20 THREADED ROD (4" LONG)

INSIDE OF METAL HOOD TO BE FINISH PAINTED WHITE

SILVER BACKGROUND WITH "07" IN BLACK LETTERS (NYC DOT TO VERIFY)

(3) 1/4" - 20 CUP POINT SOCKET SET SCREW (3 AT 120°)

CAST DUCTILE IRON FINIAL
1/4" - 16 CUP POINT SOCKET SET SCREW (3 AT 120°)

WEEP HOLES (4 AT 90°)

11 3/4"
6 3/4"
5"

1 1/4" THICK SPUN ALUMINUM

WEEP HOLE (1 1/4"

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA. WIREWAY HOLE

1/2" DIA.

1/4" - 20 CUP POINT SOCKET SET SCREW (3 AT 120°)

CLIP ON PERFORATED HOUSE SIDE SHIELD WITH 50% PERFORATION (TO BE ORIENTED IN THE FIELD)

INSIDE OF METAL HOOD TO BE FINISH PAINTED WHITE

(3) 1/4" - 20 THREADED ROD (4" LONG)

CAST ALUMINUM FINIAL
1/4" - 20 THREADED ROD (4" LONG)

ONE PIECE, CAST DUCTILE IRON LUMINAIRE HOLDER

1/4" - 20 CUP POINT SOCKET SET SCREW (3 AT 120°)

6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.

1/8" THICK SPUN ALUMINUM
6 1/4"
8 1/8"
2 3/8"
3 1/2"

WEEP HOLES (4 AT 90°)

1 1/2" DIA.
LUMINAIRE SPECIFICATIONS:

STYLE: HERITAGE ROADWAY LUMINAIRE
HEIGHT: 26 7/8"
WIDTH: 18 1/8" DIAMETER
MATERIAL: CAST AND SPUN ALUMINUM
FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)
LAMPING: EITHER 250 WATT METAL HALIDE OR 175 WATT METAL HALIDE (LAMP BY OTHERS) - PLEASE SEE QUANTITY
VOLTAGE: PLEASE ADVISE
SOCKET: MOGUL BASE
DISTRIBUTION: TYPE III, ASYMMETRIC

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

NEW YORK CITY DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

THIS DRAWING IS FOR REFERENCE ONLY.

THE HERITAGE ROADWAY
LUMINAIRE WITH ROADWAY CROSS ARM ADAPTOR

2" = 1'-0"

REV-25098
REF-008_6
BASE SPECIFICATIONS:

STYLE: HERITAGE (TYPE A) WRAP BASE
HEIGHT: 5'-1"
WIDTH: 26" OCTAGONAL
MATERIAL: 2 PIECE (WRAP AROUND) HEAVY WALL CAST IRON PER A.S.T.M. 48-83 CLASS 30
FINISH: PRIME PAINT THEN FINISH PAINT. SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW # 1203)
ACCESS DOOR: LOCATED IN BASE SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

ACCESS DOOR DETAIL

COUNTERSUNK TO ACCOMMODATE A 1/4"-20 TAMPER PROOF FLAT HEAD SCREW (4 PLACES)

FRONT ELEVATION TYPE I PANEL
COUNTERSUNK TO ACCOMMODATE A 1/4"-20 TAMPER PROOF FLAT HEAD SCREW (4 PLACES)

SIDE VIEW TYPE II PANEL
COUNTERSUNK TO ACCOMMODATE A 1/4"-20 TAMPER PROOF FLAT HEAD SCREW (4 PLACES)

SECTION A-A SCALE: 3/4" = 1'-0"

SECTION B-B SCALE: 1 1/2" = 1'-0"

NOTE: PANEL NOT GALVANIZED

1" SQUARE MOUNTING LUGS

INSET CAST ALUMINUM PANEL FOR BASE
EIGHT REQUIRED PER BASE
SCALE: 1 1/2" = 1'-0"
**BASE SPECIFICATIONS:**

- **STYLE:** HERITAGE (TYPE B) WRAP BASE
- **HEIGHT:** 4'-5"
- **WIDTH:** 21" OCTAGONAL
- **MATERIAL:** 2 PIECE (WRAP AROUND) HEAVY WALL CAST IRON PER A.S.T.M. 48-83 CLASS 30
- **FINISH:** PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACRYLON - EDWARDIAN GREEN (SW #: 1203)
- **ACCESS DOOR:** LOCATED IN BASE SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

**ACCESS DOOR DETAIL**

- DRILL AND TAP TO ACCOMMODATE 1/4" SCREWS IN 4 PLACES PER PANEL
- 1/4"-20 STAINLESS STEEL CUP POINT SOCKET SET SCREWS (40 AT 90°)

**SECTION A-A**

- 4" SQUARE MOUNTING LUGS
- COUNTERSUNK TO ACCOMMODATE A 1/4"-20 TAMPER PROOF FLAT HEAD SCREW (4 PLACES)

**SECTION B-B**

- COUNTERSUNK TO ACCOMMODATE A 1/4"-20 TAMPER PROOF FLAT HEAD SCREW (4 PLACES)

**NOTE:** PANEL 3 MUST BE REMOVED TO ACCESS WRAP BASE HARDWARE

**CROSS SECTION**

- SCALE: 3/4" = 1'-0"
- 18" DEEP PROFILE
- VARIES (TAPERS IN)

**FRONT ELEVATION**

- TYPE I PANEL
- TYPE II PANEL

**INSET CAST ALUMINUM PANEL FOR BASE**

- EIGHT REQUIRED PER BASE
- NOTE: PANEL NOT GALVANIZED
- SCALE: 1 1/2" = 1'-0"

**SIDE VIEW**

- TYPE I PANEL
- 3/8"

**REFERENCES**

- BS-25100
- REF-008_8

**NEW YORK CITY DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30**

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THIS DRAWING IS FOR REFERENCE ONLY.
BASE SPECIFICATIONS:

STYLE: HERITAGE TYPE 3 TRANSFORMER BASE
HEIGHT: 20"
WIDTH: 20" FLAT TO FLAT
MATERIAL: STEEL PER A.S.T.M. A36
FINISH: HOT DIP GALVANIZE TO A.S.T.M. A123 THEN PRIME PAINT THEN ENAMEL PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

ANCHOR BOLT LUG, H.D.G. STEEL 4 REQ'D PER BASE WITH 1 1/8" DIA. HOLE COVERED IN LUG - 3/4" THK.
DRILL AND TAP 5/16" DIA. FOR GROUND STUD 15" DIA. BOLT CIRCLE

(2) OPENINGS LOCATED 180° APART
6" DIA. CLEAR OPENING
11 3/4" DIA. BOLT CIRCLE

15 7/8" OCTAGONAL
15 1/8" OCTAGONAL
16 1/4" OCTAGONAL ACROSS CORNERS
2 5/8" THK.
1 1/8" THK.
1'-8" THK.
1/4" THK.
3/4" THK.
3/4" THK.

6" OCTAGONAL ACROSS FLATS
19 1/4" OCTAGONAL
36" OCTAGONAL ACROSS FLATS
21 1/2" OCTAGONAL ACROSS CORNERS
3 1/4" R
3/8" DIA. DRAINAGE FOR GALVANIZING

20" OCTAGONAL ACROSS FLATS
12 7/8" SQUARE
(2) BRACKETS AT 180° SEE BRACKET DETAIL
(2) REQUIRED PER BASE
1/2" DIA. THROUGH HOLE 5/8" OF 1/2" DIA. THROUGH HOLE
1 1/4" DIA. THROUGH HOLE
1 1/4" DIA. THROUGH HOLE
1 1/4" DIA. THROUGH HOLE
1 1/2" = 1'-0" SCALE: N.T.S.
**BASE SPECIFICATIONS:**

**STYLE:** HERITAGE TYPE 1 & 2

**HEIGHT:** 14 3/4"

**WIDTH:** 15" SQUARE

**MATERIAL:** STEEL PER A.S.T.M. A36

**FINISH:** HOT DIP GALVANIZED TO A.S.T.M. A123 THEN PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW # 1203)

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**TRANSFORMER BASE**

**FRONT ELEVATION**

**SPLASH** 

**TOP VIEW**

**SCALE: 1 1/2" = 1'-0"**

**BRACKET DETAIL**

**SCALE: N.T.S.**

**WELD**

**BOTTOM VIEW**

**SCALE: 1 1/2" = 1'-0"**

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THIS DRAWING IS FOR REFERENCE ONLY.
FINIAL SPECIFICATIONS:

**STYLE:** HERITAGE FINIAL

**HEIGHT:** 17"

**WIDTH:** 6 7/8" OCTAGONAL

**MATERIAL:** CAST ALUMINUM ALLOY SR319 PER A.S.T.M. B26-95

**FINISH:** PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

1" DIA. SOLID BRASS ROUND BALL

1 1/4" SQUARE PHOTO CELL WINDOW FOR TYPE 2 POLES ONLY

FOR TYPE 2 POLES LOCATION OF TWIST LOCK PHOTO CONTROL (SUPPLIED BY OTHERS)

ASSEMBLY SECURED BY (2) STAINLESS STEEL FLAT HEAD MACHINE SCREWS

(4) 1/4" - 20 X 1" LONG ALLEN HEAD SET SCREWS (LOCATED 90° APART)

1/8" IPS PIPE NIPPLE TO ATTACH BRASS BALLS

SECTION AA

NEW YORK CITY DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING 34-02 QUEENS BLVD L.I.C., N.Y. 11101

OLD DRAWING NO. MISC-25096  REF-008_11

THE HERITAGE FINIAL

THIS DRAWING IS FOR REFERENCE ONLY.
CLAMP SPECIFICATIONS:

STYLE: HERITAGE SIGN CLAMP
HEIGHT: 3"
BASE: 11" FLAT TO FLAT - OCTAGONAL
MATERIAL: 2 PIECE (WRAP AROUND) HEAVY WALL CAST ALUMINUM ALLOY Sr319 PER ASTM B26-95
FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

1/8" IPS HEAVY STEEL LOCKNUT
1/8" IPS 1/2" SCH 40 STEEL PIPE (1.05" O.D.)
1" O.D. BRASS BALL PAINTED TO MATCH POST
4 COLUMNS OF (2) 1/4" - 20 X 3/4" CUP POINT SOCKET SET SCREWS
9/16" FROM C TO EDGE OF CLIP
3/4" SCH 40 STEEL PIPE (1.05" O.D.)
2" WIDE X 2 1/2" HIGH STEEL LEVELING PLATES WELDED TO SHAFT (4 AT 90°)
2" WIDE X 2 1/2" HIGH STEEL LEVELING PLATES WELDED TO SHAFT (4 AT 90°)
3/8" STEEL MOUNTING PLATE
1/8" IPS ALLTHREADED PIPE NIPPLE WELDED TO 3/8" STEEL MOUNTING PLATE
1/4" - 20 HEX HEAD BOLT WITH WASHER, LOCK WASHER & NUT

REVISION
DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

MISC-25103
REF-008_12

THIS DRAWING IS FOR REFERENCE ONLY.
CLAMP SPECIFICATIONS:

STYLE: FOUR-PIECE DECORATIVE SHROUD FOR HERITAGE ROADWAY ARM

HEIGHT: 6"

WIDTH: 10 5/16" OCTAGONAL

MATERIAL: 4 PIECE, (BOLT TOGETHER) HEAVY WALL CAST ALUMINUM ALLOY 35610 PER A.S.T.M. B26-95

FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW # 1203)

FRONT ELEVATION SCALE: 3" = 1'-0"

SIDE VIEW SCALE: 3" = 1'-0"

TYPICAL ARM TO SCROLL CONNECTION SCALE: N.T.S.

SHAFT DIMENSION VARIES

TOP TWO DECORATIVE CASTINGS SPLIT PERPENDICULAR TO ARM

BOTTOM TWO DECORATIVE CASTINGS SPLIT IN THE SAME DIRECTION AS THE ARM

4 COLUMNS OF (2) 1/4" - 20 X 3/4" STAINLESS STEEL CUP POINT SOCKET SET SCREWS

CAST ALUMINUM DECORATIVE TAIL

PLATE WELDED TO STEEL SHAFT

SHAFT AND PLATE WELDED TO 1/2" - 13 X 1 1/2" LONG STAINLESS STEEL HEX HEAD CAP SCREW WITH PLAIN WASHER FOR THE 1/2" - 13 BOLTS

BRACKET WELDED TO 2 1/2" SCH. 40 STEEL PIPE (2 7/8" O.D.)

1/4" - 20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER

ALUMINUM TAIL TO BE MECHANICALLY ATTACHED TO STEEL BRACKET

1/2" - 13 X 1 1/2" STAINLESS STEEL HEX HEAD CAP SCREW WITH PLAIN WASHER

BRACKET WELDED TO 2 1/2" SCH. 40 STEEL PIPE

1/4" - 20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER

CASTINGS DRILLED AND TAPPED FOR 1/4" - 20 BOLTS

1/4" - 20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER
CLAMP SPECIFICATIONS:

STYLE: FOUR PIECE CLAMP FOR HERITAGE PEDESTRIAN ARM
HEIGHT: 6"
WIDTH: 12 3/4" OCTAGONAL
MATERIAL: 4 PIECE (BOLT TOGETHER) HEAVY WALL CAST ALUMINUM ALLOY SR319 PER A.S.T.M. B26-95
FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACROLON - EDWARDIAN GREEN (SW #: 1203)

CASTING DRILLED AND TAPPED FOR 1/4"-20 BOLTS

BRACKET DETAIL
SCALE: 3" = 1'-0"

5/8" THICK STEEL BRACKET
5/8" X 1 1/2" SLOTTED HOLE
1 1/2" CB, WIREWAY HOLE
1 1/2" CB, HEAVY WALL CAST ALUMINUM ALLOY SR319 PER A.S.T.M. B26-95
3/4" SCH 40 STEEL PIPE USED FOR LOWER CROSS ARM
1/4" IPS STEEL ALL THREADED PIPE
7/32" THICK HEAVY STEEL NUT
3/4" SCH 40 STEEL PIPE USED FOR LOWER CROSS ARM
1 1/2" SCH 40 STEEL PIPE (1.9" O.D.)
1/8" IPS STEEL ALL THREADED PIPE
3/4" SCH 40 STEEL PIPE USED FOR LOWER CROSS ARM
1" DIA. SOLID BRASS BALL FOR LOWER CROSS ARM
1/4" X 4" LONG STAINLESS STEEL HEX HEAD CAP SCREW WITH FLAT WASHER
1/4" X 4" LONG STAINLESS STEEL HEX HEAD CAP SCREW WITH LOCK WASHER

TYPICAL ARM TO SCROLL CONNECTION
SCALE: N.T.S.

FRONT ELEVATION
SCALE: 3" = 1'-0"

5/16" THICK STEEL BRACKET
1/4"-20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER
5/8" DIA. X 1" SLOTTED HOLE
1 1/2" DIA. WIREWAY HOLE
4 COLUMNS OF (2) 1/4" X 3/4" CUP POINT SOCKET SET SCREWS
PLATE WELDED TO STEEL SHAFT
SHAFT & PLATE WELDED TO 4" ARE DRILLED AND TAPPED FOR THE 1/2"-13 BOLTS
1/2"-13 X 1 1/2" LONG STAINLESS STEEL HEX HEAD CAP SCREW WITH FLAT WASHER
1/2"-13 X 1 1/2" LONG STAINLESS STEEL HEX HEAD CAP SCREW WITH FLAT WASHER

TOP VIEW
SCALE: 3" = 1'-0"

TOP TWO DECORATIVE CASTINGS SPLIT PERPENDICULAR TO ARMS
4 COLUMNS OF (2) 1/2" X 2" X 3/4" CUP POINT SOCKET SET SCREWS
BRACKET WELDED TO 1 1/2" SCH 40 STEEL PIPE WITH FLAT WASHER
1" CB, WIREWAY & SHAFT (2 AT 180°) (DRILLED BY SPRING CITY)
BRACKET WELDED TO 1 1/2" SCH 40 STEEL PIPE WITH FLAT WASHER
5/16" THICK STEEL BRACKET
1/4"-20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER
1/4"-20 X 4" LONG STAINLESS STEEL HEX HEAD BOLT WITH LOCK WASHER
Casting Drilled and Tapped for Wood Bolts

SCALE: 3" = 1'-0"

FRONT ELEVATION
SCALE: 3" = 1'-0"
LAMPPPOST ASSEMBLY WITH TRANSFORMER BASE

HAND HOLE

LAMPPPOST ASSEMBLY WITHOUT TRANSFORMER BASE

WORLD'S FAIR POST
SEE NYC DOT STREET LIGHTING STANDARDS DRAWING LP-021

F.S. BASE

20"

NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

THIS DRAWING IS FOR REFERENCE ONLY.
NO NEW INSTALLATIONS.
NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

LAMPPOST ASSEMBLY DWG. FOR "EL" TRAIN STRUCTURES

NEW YORK CITY: J-5231

REVISION

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

OLD DRAWING NO. DRAWING NO.
N.T.S. REF-009_2

SCALE: 1:50

THIS DRAWING IS FOR REFERENCE ONLY.
NO NEW INSTALLATIONS.
CUT HOLES FOR PASSAGE OF 1 1/2" CONDUIT

NOTE: CUT TWO SIDES WITH FLAPS AS SHOWN.
CUT ONE SIDE WITHOUT FLAPS AND ASSEMBLE AS SHOWN IN SECTION A-A.

BREAKDOWN OF SHEET METAL PYLON
SCALE: 1/2" = 1'-0"

DETAIL OF COLLAR ATTACHMENT
SCALE: 1" = 1'-0"

DETAIL OF CHANNEL ATTACHMENT
SCALE: 1/2" = 1'-0"

DETAIL OF STABILIZER WEIGHT
MATERIAL: CONCRETE BLOCK
SCALE: 1/2" = 1'-0"

NOTES:
1. PYLON SHALL BE CONSTRUCTED OF 16 GAUGE SHEET STEEL.
2. AFTER COMPLETION OF PYLON, TWO COATS OF AN APPROVED ALUMINUM PAINT SHALL BE APPLIED INSIDE AND OUTSIDE.
3. ALL NUTS AND BOLTS SHALL BE MADE HDG STEEL.
4. FOR BLOCKS SEE DETAIL OF STABILIZER WEIGHT.
5. THE TYPE OF CONTROL SHALL BE PHOTO ELECTRIC WHERE FIELD CONDITIONS PERMIT.
6. WOODHEAD WATERPROOF FUSED SOCKETS GRAYBAR CAT. #600.
7. FOR WIRING DIAGRAM SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS REF-010_3.
ELEVATION

FINGER

HOLE

PAINT ALL EXPOSED SURFACES OF WOOD AND PIPE 2 COATS

PAINT COLOR AS DIRECTED

7/8" BOARDS

DOUBLE BOARD OF 7/8"

2" HOLE CAULK AROUND PIPE WITH OAKUM

ROUND HEAD WOOD SCREWS 2" LONG

FERAL ALARM LUMINAIRE (WHERE REQUISITED)

COBRAHEAD LUMINAIRE (PHOTO ELECTRIC CONTROL WHERE INDIVIDUALLY SERVICED.)

11/2" PIPE

11/2" PIPE

FOR TWIN ARM PYLON INSTALL ADDITIONAL ARM AND LUMINAIRE AT OTHER SIDE OF 2" CROSS

1 1/2" STEEL PIPE

1/2" CROSS FLANGE WHEN SINGLE ARM ONLY IS USED

PHOTO ELEC. CONTROL

P.E.C. RECEPTACLE WITH P.E.C. ON LUMINAIRE TERMINAL BOARD IN LUMINAIRE

FROM SERVICE WIRES

INLINE FUSE HOLDER BUSSMAN HEZ (OR APPROVED EQUAL) WITH 15 AMP KTK-R (OR APPROVED EQUAL)

BLACK

RED

WHITE

LINE AUX NEUT

ELEVATION

NOTES:

1. SEE LIGHTING PLAN FOR NUMBER & LOCATION.

2. USE 2"X4" FOR FRAME, EXCEPT WHERE NOTED.

3. ALL NUTS, BOLTS, SCREWS & WASHERS SHALL BE H.D. GALV. STEEL.

4. SEE WIRING DIAGRAM ON THIS DRAWING.

NEW YORK CITY STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C., N.Y. 11101

TEMPORARY PYLON - WOOD CONSTRUCTION - 18'-0" MNTG. HEIGHT

REVISION

OLD DRAWING NO.

SCALE

NEW DRAWING NO.

NEW YORK DOT

NOTES:

1. SEE LIGHTING PLAN FOR NUMBER & LOCATION.

2. USE 2"X4" FOR FRAME, EXCEPT WHERE NOTED.

3. ALL NUTS, BOLTS, SCREWS & WASHERS SHALL BE H.D. GALV. STEEL.

4. SEE WIRING DIAGRAM ON THIS DRAWING.
**NOTES:**

1. STANCHIONS ARE MURRAY NO. RF216 OR EQUAL, HANGERS ARE MURRAY NO. RG107 OR EQUAL.

2. CONDUIT LAYOUT IS TYPICAL AND WHERE NECESSARY, CHANGES SHALL BE MADE TO MEET CONDITIONS.

**REINFORCED CONCRETE:**

1. CEMENT - 1 PART - HIGH GRADE PORTLAND CEMENT.

2. FINE AGGREGATE - 2 PARTS - CLEAN NATURAL SAND OR SCREENINGS FROM TRAP, GRANITE OR GRAVEL.

3. COARSE AGGREGATE - 4 PARTS - CLEAN, HARD CRUSHED ROCK OR GRAVEL TO PASS 1 INCH CIRCULAR OPENING IN SCREEN.

4. WATER - ONLY CLEAN, FRESH WATER TO BE USED.

5. WHERE BOXES ARE PRECAST OFF THE JOB, AN INSPECTOR OF THIS DEPARTMENT MUST BE PRESENT.
3'-8" FOR TYPE #2 BOX
4'-8" FOR TYPE #4 BOX
2'-8" FOR TYPE #A-2 BOX

2'-8" FOR TYPES NO. 2 AND NO. 4 BOXES
2'-2" FOR TYPE A2 BOX

10 1/4"
5 3/4"
5 3/4"
6 1/4"
4"

3'-0" FOR TYPE NO. 2 BOX
4'-0" FOR TYPE NO. 4 BOX
2'-0" FOR TYPE NO. A-2 BOX
4"
1'-6"
4"

2'-0" FOR TYPES NO. 2 AND NO. 4 BOXES
1'-6" FOR TYPE A2 BOX

4" 4"

2'-1 1/4"
5"
5"
5"

ALL HORIZONTAL RODS TO BE BENT AROUND VERTICAL RODS

MARKER POST, MONOLITHIC WITH BOX TO HAVE BRONZE ARROW

4-1/2" DIA.
REINFORCING RODS
ALL FOUR RODS TO BE TIED WITH #8 G.I. WIRE

LIFTING HANDLES
ONE STANCHION IN CENTER OF EACH SIDE OF BOX FOR A2 BOX ONLY

NOTE: STANCHIONS ARE MURRAY NOS. (4 REQ'D) RF 21G OR EQUAL FOR TYPES #2 & #4 RF 108 OR EQUAL FOR TYPE #A-2 (2 REQ'D)

NOTE: CONDUCTS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

1. CONCRETE SERVICE BOX: TYPE 2, TYPE 4 & TYPE A2
2. REINFORCED CONCRETE:
   2.1. CEMENT - 1 Part - High Grade Portland Cement.
   2.2. FINE AGGREGATE - 2 Parts - Clean Natural Sand or Screenings from Trap Granite or Gravel.
   2.3. COARSE AGGREGATE - 4 Parts - Clean Hard Crushed Rock or Gravel
   TO PASS 1" CIRCULAR OPENING IN SCREEN.
   2.4. WATER - ONLY CLEAN, FRESH WATER TO BE USED.
3. WHERE BOXES ARE PRECAST OFF THE JOB AN INSPECTOR OF THIS DEPARTMENT MUST BE PRESENT.

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

CONCRETE SERVICE BOX - TYPE 2, TYPE 4 AND TYPE A2

DETAIL OF LIFTING HANDLES SCALE: 1/16" = 1'-0"

DETAIL OF COVER AT WALLS SCALE: 3" = 1'-0"

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

1. A ONE CUBIC FT. BROKEN STONE DRY WELL SHALL BE PROVIDED UNDER BOX DRAIN. DRY WELL SHALL BE INSTALLED BEFORE BOX IS INSTALLED, CONDUITS SHALL PROJECT INTO BOX BETWEEN 1-1/2" & 2".
2. 4" X 4" WELDED WIRE MESH #1 WIRE
3. ALL HORIZONTAL RODS TO BE BENT AROUND VERTICAL RODS
4. 3" CONDUIT (OR AS SHOWN ON LIGHTING PLAN)
5. 4" CONDUIT (OR AS SHOWN ON LIGHTING PLAN)
6. 1 1/2" CONDUIT
7. 8 X 8 BROKEN STONE DRAIN
8. 4 - 1/2" DIA. REINFORCING RODS 18" LONG BENT OVER VERTICAL RODS AS SHOWN
9. BEND MESH OVER BAR R = 1 1/2"
10. 1/2" DIA. BENT AS SHOWN

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

CONCRETE SERVICE BOX - TYPE 2, TYPE 4 AND TYPE A2

DETAIL OF COVER AT WALLS SCALE: 3" = 1'-0"

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

CONCRETE SERVICE BOX - TYPE 2, TYPE 4 AND TYPE A2

DETAIL OF COVER AT WALLS SCALE: 3" = 1'-0"

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

CONCRETE SERVICE BOX - TYPE 2, TYPE 4 AND TYPE A2

DETAIL OF COVER AT WALLS SCALE: 3" = 1'-0"

NOTE: CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.
CONCRETE PULLBOX TYPE 3

NOTES:
1. CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
2. A ONE CU. FT. BROKEN STONE DRAIN SHALL BE PROVIDED UNDER BOX DRAIN.

DETAIL OF COVER AT WALLS
SCALE: 3" = 1'-0"

NOTE:
1. WATER - ONLY CLEAN FRESH WATER TO BE USED.
2. WHERE BOXES ARE PRECAST OFF THE JOB, AN INSPECTOR OF THIS DEPARTMENT MUST BE PRESENT.
NOTES:
1. WHERE THE EXISTING BOXES ARE SO ALIGNED THAT A GAP OF MORE THAN 5' WOULD BE REQUIRED.
1.1. A NEW BOX SHALL BE CONSTRUCTED WITH NEW CONDUIT AND CABLES.
1.2. THE NEW BOX SHALL BE PLACED IN THE MEDIAN SHEAR OUTSIDE THE BARRIER CURB UNLESS OTHERWISE INDICATED.

2. FOR RAISING MODIFICATION OF EXISTING BOXES SEE NYC DOT STREET LIGHTING STANDARD DRAWING BOX-006.

NOTE:
THE TWO SIDE CLOSURE DESIGN SHALL BE USED WHENEVER THE CENTERLINE OF THE CONCRETE BARRIER FALLS WITHIN THE SAME BOX COVER AS SHOWN IN THE ABOVE LEFT DETAIL. THE SINGLE CLOSURE SYSTEM SHALL BE USED WHENEVER THE INTERIOR EDGES OF THE NEW ELECTRIC BOX COVER FALLS MORE THAN 7" INTO THE CONCRETE.
1. REINFORCED CONCRETE:
   1.1. CEMENT - 1 PART - HIGH GRADE PORTLAND CEMENT.
   1.2. FINE AGGREGATE - 2 PARTS - CLEAN NATURAL SAND OR SCREENINGS FROM TRAP GRANITE OR GRAVEL.
   1.3. COARSE AGGREGATE - 4 PARTS - CLEAN HARD CRUSHED ROCK OR GRAVEL TO PASS 1" CIRCULAR OPENING IN SCREEN.
   1.4. WATER - ONLY CLEAN FRESH WATER TO BE USED.

2. WHERE BOXES ARE PRECAST OFF THE JOB AN INSPECTOR OF THIS DEPARTMENT MUST BE PRESENT.

3. STANCHIONS ARE MURRAY CAT. RF 216, OR EQUAL (2 REQ'D).

4. CONDUITS TO RIDE FREELY THROUGH BOXES TO ALLOW FOR EXPANSION AND CONTRACTION.

5. WALL INSERTS MURRAY CAT. RX004M OR EQUAL (2 REQ'D). HANGERS ARE MURRAY CAT. RG107 OR EQUAL (2 REQ'D).

6. A ONE CU. FT. BROKEN STONE DRY WALL SHALL BE PROVIDED UNDER BOX DRAIN.

7. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.

8. MANUFACTURER'S UNUSED KNOCKOUTS SHALL BE PLUGGED.

9. CONDUITS SHALL PROJECT INTO BOX BETWEEN 1 1/2" AND 2".

10. DRY WELL SHALL BE INSTALLED BEFORE BOX IS INSTALLED.
DETAIL A

STIFFENING RODS TO BE USED ONLY WHEN MOUNTING DISTANCE BETWEEN CEILING & FIXTURE EXCEEDS 3'-0", UNLESS OTHERWISE SPECIFIED.

HEAVY DUTY HOT DIPPED GALV. STEEL CLAMP-JOSLYN 3-BOLT 6-INCH, CAT.# J-1131, OR EQUAL

MOUNTING BRACKET SUPPLIED WITH LUMINAIRE

24" MIN.

CEILING

5/8"x2" LONG HEX THREADED BAR COUPLING WITH LOCKNUT, H.D. GALV.

WITH LOCKNUT, H.D. GALV.

5/8" ROD, H.D. GALV.

5/8" NUT, H.D. GALV.

1/2" DIA. EXPANSION BOLT WITH TWO UNIT ANCHOR H.D. GALV.

5/8" ROD, H.D. GALV.

5/8" NUT, H.D. GALV.

SPLIT HOLE IN COVER

1 1/2" HOLE ROUNDED EDGES

3/4" FLEXIBLE BRONZE HOSE, AMER. BRASS CO. TYPE-BD15 WITH ONE SM15 MALE CONNECTOR ONE SFU15 UNION CONNECTOR OR EQUAL, 24" MIN - 30" MAX

3/4" FLEXIBLE BRONZE HOSE, AMER. BRASS CO. TYPE-BD15 WITH ONE SM15 MALE CONNECTOR ONE SFU15 UNION CONNECTOR OR EQUAL, 24" MIN - 30" MAX

3/4" RIGID CONDUIT H.D. GALV.

8"x8"x6" C.I. JUNCTION BOX H.D. GALV.

SPRING CITY CO. TYPE IR.

MODIFICATION-IH. WITH RECESSED SCREW COVER OR EQUAL.

MOUNT WITH 1/4"-20 MACH. SCRS. AND CINCH ANCHORS.

1/2" DIA. EXPANSION BOLT WITH TWO UNIT ANCHOR H.D. GALV.

1/4"x2" H.D. GALV.

BENT STEEL STRAP

DETAILED SCALE: 1 1/2" = 1'-0"

NOTES:
1. CAPPED 3/4" SHORT NIPPLE, H.D. GALV.
2. WHERE FIXTURE IS MOUNTED BETWEEN STRINGER BEAMS, BOTTOM OF LEXAN REFRACTOR SHALL NOT BE HIGHER THAN BOTTOM FLANGE OF STRINGER,

HPS OR LED UNDERDECK LUMINAIRE

SURFACE MOUNTING DETAIL ON EXISTING STRUCTURE

SCALE: N.T.S.
INSTALLATION OF PHOTO ELECTRIC CONTROL ON LAMPPOST

PLAN VIEW
PHOTO ELECTRIC CONTROL
RELAY

FOR PHOTO-ELECTRIC CONTROL SEE ENLARGED DETAILS

INSTALLED RECEPTACLE WITH THIS SIDE FACING NORTH

DRILL & TAP 8-32x1/2" DEEP, 2 HOLES 5/8" CENTER TO CENTER.

(2) STAINLESS STEEL FILLISTER HD. CAP SCREW 8-32x1/2" LG.

POLE CAP FOR COMPLETE DETAIL SEE NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-008

1/16"x1" BENT STRAP GALV. STEEL OR ALUM.

INSTALLED RECEPTACLE WITH THIS SIDE FACING NORTH

INSTALL RECEPTACLE WITH THIS SIDE FACING NORTH

1/4" BUILT UP WITH FRICTION TAPE TO APPROX. 7/16" DIA.

#12 WIRES BLACK (LINE), WHITE (NEUTRAL), RED (LOAD)

CABLE CLEAT SEE DETAIL

1/4" BENT STRAP GALV. STEEL OR ALUM.

3/4" NO. 8 32 THREADS PER INCH, 1 1/2" LONG STAINLESS STEEL MACHINE SCREW

1/16"x1" BENT STRAP, GALV. STEEL OR ALUM.

WOOD MAPLE CLEAT

PLAN VIEW

MICRO BALANCING, INC.
"LUMATROL," OR EQUAL

PLANNING, RECEPTACLE WITH THIS SIDE FACING NORTH

RECEPTACLE PLATE STREET LIGHTING CORPORATION, CATALOG #165 OR EQUAL

COPPER CLIP LINE

POLARIZED 3 WIRE THREELINE RECEPTACLE HUBBELL, CAT. #NY11921, OR EQUAL

INSTALLATION OF PHOTO ELECTRIC CONTROL UNIT ON TYPES 8 & 12 LAMPPOSTS

NEW YORK CITY DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD L.I.C. N.Y.11101

OLD DRAWING NO. REF-017

INSTALLED RECEPTACLE WITH THIS SIDE FACING NORTH

INSTALL RECEPTACLE WITH THIS SIDE FACING NORTH

THIS DRAWING IS FOR REFERENCE ONLY.
NOTES:

1. MATERIAL OF CAP SHALL BE EITHER STEEL OR ALUMINUM. WALL THICKNESS SHALL BE APPROX. 1/4" IF STEEL AND 3/8" IF ALUMINUM.

2. FABRICATION MAY BE BY CASTING, WELDING, STAMPING, EXTRUDING, ETC.

3. FINISH OF CAP SHALL BE ARCHITECTURAL BRONZE STANDARD, ARMORTHANE OR EQUAL.

4. SHORT NIPPLE AND LOCKNUTS SHALL BE INSTALLED IN CAP AS SHOWN.

5. SET SCREWS OR 18-8(304) STAINLESS STEEL SHALL BE FURNISHED IN PLACE.
NOTES:
1. INSTALL ON WALL ALONGSIDE CONDUIT A MEANS OF PROTECTING CONDUIT AGAINST DAMAGE FROM VEHICLES STRIKING WALL.
NOTE:
1. BRACKET & SOCKET TO BE MADE OF GRAY CAST IRON.
8'-0" ALUMINUM SINGLE MEMBER ARM
FOR WOOD POLE

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

1/4" ± 1/16"

3/4" ± 1/16"

1 3/8" DIA. HOLE (CENTERED)

3/4" ± 1/16"

3/4" ± 1/16"

3/4" ± 1/16"

1/4" ± 1/16"

DRAWING NO.
J-3806

REVISION
REF-022

NEW YORK CITY

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
34-02 QUEENS BLVD
L.I.C., N.Y. 11101

SCALE: 3" = 1'-0"

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MATT' L 6061-T6 ALUM

SCALE: 8" = 1'-0"
8'-0" AND 12'-0" ALUMINUM BRACKET ARMS
FOR WOOD POLE

NOTES:
1. THRU BOLT IS 5/8'-11 NC (2 1/2" LG), HD, BOLT WITH NUT & WASHER (SEE DET.-1) - 1 PER ARM (H.D. GALV. STL.)
2. LAG SCREWS ARE 1/2" DIA.X4" LG FETTER DRIVE LAG SCREWS - 1 PER ARM (H.D. GALV. STL.)
3. CROSS SECTION WHERE NOT CIRCULAR, CAN BE OVAL, ELLIPTICAL, TEAR DROP OR SIMILAR.
4. AN INTERMEDIATE CONNECTOR EXTRUSION MAY BE USED BETWEEN UPPER AND LOWER MEMBERS WHEN WELDING THEM TOGETHER, CAP OPEN END OF LOWER MEMBER.
5. STRUT ALTERNATE: EXTRUDED OVAL CYLINDER OF 6061 AL. ALLOY.