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LAMPPPOST DRAWINGS
ELEVATIONS OF 25' & 20' SHAFTS

ROUND SHAFT

TOP VIEW OF SHAFT

PLAN OF BASE PLATE

ROUND FOR TWIN ARM CONSTRUCTION

(SCROLL NUTS ALSO REQUIRED)

SCALE: N.T.S.

FRAME

BAR SHOWN IN UNLOCKED POSITION

CONTINUOUS WELD

POLE

COVER

SIDE VIEW

FRONT VIEW

HANDHOLE DETAILS

(Octagonal Shaft Similar)

SCALE: 3' = 1'-0"

FRAME

BAR

POLE

COVER

NEW YORK CITY

TAPERED ROUND LAMPPOST

DEPARTMENT OF TRANSPORTATION

DIVISION OF STREET LIGHTING

34-02 QUEENS BLVD

L.I.C., N.Y. 11101

OLD DRAWING NO.

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

TAPERED ROUND LAMPPOST

AS NOTED

H-3722-4A

REVISION

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

REVISION

DEPARTMENT OF TRANSPORTATION

DIVISION OF STREET LIGHTING

34-02 QUEENS BLVD

L.I.C., N.Y. 11101

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34-02 QUEENS BLVD

L.I.C., N.Y. 11101

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

TAPERED ROUND LAMPPOST

AS NOTED

H-3722-4A

REVISION
STEEL POLE CAP

3/16" 4.75" ACROSS CORNERS - BOTTOM
1 5/16" 1/2" 1 1/2" 2" 3 1/2" 1/2"

FOUR PADS EQUALLY SPACED
5/16"x18 TAP
THREE HOLES

ACROSS CORNERS - TOP - 4.48"
ACROSS CORNERS - BOTTOM - 4.75"
1/2"

SECTIONAL ELEVATION

FINAL FOR TOP OF SHAFT
HOT DIPPED GALVANIZED STEEL

THREE 5/16"x3/4" SQ. HD. SET SCREWS STAINLESS STEEL

LOOSE FIT FOR VENTILATION

ELEVATION

4.75" ACROSS CORNERS - BOTTOM
1/2"

PLAN

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, 2019-11-14
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.
PEDESTRIAN STEEL DAVIT POLE
(WITH TRANSFORMER BASE)

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

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

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 LAMPPOST WITH MANHOLE (WITHOUT T. BASE) SEE MANHOLE DETAILS ON NYC DOT STREET LIGHTING STANDARD DRAWING LP-003.
NOTES:
1. TRANSFORMER BASE SHALL COMPLY WITH FEDERAL HWY ADMINISTRATION/1985 AASHTO FRAGILITY 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" X 1 1/4" LONG BUTTON HD. SOCKET SCREW LOCKING MECHANISM.
4. FOR ADDITIONAL DETAILED INFORMATION, SEE DIVISION OF STREET LIGHTING SPECIFICATIONS FOR FRAGIBLE 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. 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 LUMINAIRE, ADDITIONAL FUSE HOLDER WITH FUSE IS REQUIRED.
8. OR OTHERWISE APPROVED.

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 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 STANDARD DRAWINGS SL-MIS-015_1 AND SL-MIS-015_2 FOR WIRING DETAILS.

SCALE: 1/4" = 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.
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 lamp post, 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 Lamp Post Specifications for additional data and requirements.
LAMP POST & ARM DETAIL
SCALE: 1/2" = 1'-0"

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 300 SERIES, 18-8 STAINLESS STEEL 1/2"-13x1 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. 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 line which is octagonal at the base and tapers to a round shape for
Draining. The pole shall have no less than 0.25" thick walls and shall
meet all NYCDOT signals criteria for supporting of 25 ft.
traffic signals, mast arms.

BASE:
Base and cover made out of steel, B00.10, B1000.10 Spheroidal
Graphite, or ductile iron ASTM A355 Grade B. The base and
POLE, and the access door shall be factory assembled for
accuracy. The pole base is made of two piece construction
which attaches to base shaft for smooth base-pole transition.

FOUNDATION:
Shall be as per NYC DOT Street Lighting Standard Drawing
PWNK (latest revision)

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 it is designed to fit
7" x 10" hand hole. Door to have concealed hinges and be held
SHUT by captive recessed torque type fasteners.

MOUNTING PLATE:
MOUNTING PLATE PROVISION TO ALLOW EASY TERMINAL BLOCK AND CIRCUIT
BREAKER INSTALLATION.

FINISH:
Electrostatically applied Thermoset Polyester Powder-Coat with
Aliphatic Polyurethane Barrier Process.

COLOR:
BASE: 2 coats of PPG Aik 300/201 Low VOC Acrylic Modified Alkyd
 Enamel, gel tinted to PPG color PCU 73101
SHAE: 2 coats of PPG Aik 30201 Low VOC Acrylic Modified Alkyd
 Enamel, gel tinted to PPG color PCU 73101
UPPER COLUMN, ARM AND FIXTURE: 2 coats of PPG Aik 30201 Low VOC
Acrylic Modified Alkyd Enamel, gel tinted to PPG color PCU 73101,
OR AS SPECIFIED BY NYCDOT STREET LIGHTING ENGINEERING.

DESCRIPTION

SHAFT ELEVATION

SHAE: 3/8" = 1'-0"

SCALE: 3/8" = 1'-0"

ROLE: TYPE S LAMPPOST AND LUMINAIRE

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

NEW YORK CITY

DRAWING NO.: LP-014_1

DATE: 10/30/19

REV: 5317

TYPE: S LAMPPOST AND LUMINAIRE

As Noted

NOTES:

BASE:
Base and cover made out of steel, B00.10, B1000.10 Spheroidal
Graphite, or ductile iron ASTM A355 Grade B. The base and
POLE, and the access door shall be factory assembled for
accuracy. The pole base is made of two piece construction
which attaches to base shaft for smooth base-pole transition.

FOUNDATION:
Shall be as per NYC DOT Street Lighting Standard Drawing
PWNK (latest revision)

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 it is designed to fit
7" x 10" hand hole. Door to have concealed hinges and be held
SHUT by captive recessed torque type fasteners.

MOUNTING PLATE:
MOUNTING PLATE PROVISION TO ALLOW EASY TERMINAL BLOCK AND CIRCUIT
BREAKER INSTALLATION.

FINISH:
Electrostatically applied Thermoset Polyester Powder-Coat with
Aliphatic Polyurethane Barrier Process.

COLOR:
BASE: 2 coats of PPG Aik 300/201 Low VOC Acrylic Modified Alkyd
 Enamel, gel tinted to PPG color PCU 73101
SHAE: 2 coats of PPG Aik 30201 Low VOC Acrylic Modified Alkyd
 Enamel, gel tinted to PPG color PCU 73101
UPPER COLUMN, ARM AND FIXTURE: 2 coats of PPG Aik 30201 Low VOC
Acrylic Modified Alkyd Enamel, gel tinted to PPG color PCU 73101,
OR AS SPECIFIED BY NYCDOT STREET LIGHTING ENGINEERING.
NOTE:

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 graphic, or ductile iron ASTM A536-84 grade 65-45-12. Base shall be manufactured in 3 pieces, noncorrosive base and pole base, 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 it 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 Pro Alum 303201 low VOC acrylic modified alkyd enamel - LG, tinted to PPG color PCU 73101.

Shaft: 2 coats of Pro Alum 303201 low VOC acrylic modified alkyd enamel - LG, black, PPG color PC 828.

Upper column, arm and fixture: 2 coats of Pro Alum A-303201 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

NOTES:

DIFFUSER HOUSING MATERIAL:
MAKE OF 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.

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

FINISH:
ELECTROSTATICALLY APPLIED THERMOSETTING POLYESTER POWDER-COAT WITH X-LAY FOUR PART CORROSION INHABITING PROCESS.

COLOR:
2 COATS OF PPG ALK 300/201 LOW VOC ACRYLIC MODIFIED ALKYD ENAMEL, INT. INTENSIFIED TO PPG COLOR PCG 75151, OR AS SPECIFIED BY NYC DOT STREET LIGHTING ENGINEERING.

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

DIFFUSER HOLDER MATERIAL:
MACHINE CAST ALUMINUM (365.1 ALLOY), THE CASTING SHALL BE OF UNIFORM WALL THICKNESS WITH NO WARPING OR MOLD SHIFTS 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 A FOUR PART CORROSION INHIBITING 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.

AS PER NYC DOT STREET LIGHTING STANDARDS NO. 471

DRAWING NO.

REVISION

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

OLD DRAWING NO.

SCALE: 3" = 1'-0"

NEW YORK CITY

TYPE S LAMPPOST AND LUMINAIRE

DRAWING NO. 5317

LP-014_4

DESCRIPTION

DATE

DRAWING NO.

REVISION

NEW YORK CITY

SCALE: 3" = 1'-0"

NOTE

DRAWING NO. 5317

LP-014_4

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NEW YORK CITY

SCALE: 3" = 1'-0"
LAMPPOST DETAIL  
SCALE: 1/2" = 1'-0"

BASE TAPPED FOR ATTACHING 1/4" BOLT COVERS

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

$1/4$ DIA. HOLE (4) REQUIRED

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

12'-1/2" TO TOP OF SHAFT

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

4" X 8" HANDHOLE WITH FRAME AND COVER  
AND TWO 1/4" STANDARD STEEL SCREWS, 1/4" TAP IN FRAME FOR GROUND CONNECTION

VIBRATION DAMPER AND PAD ARE REQUIRED ONLY IF POLE IS MOUNTED ON STRUCTURE SUBJECTED TO VIBRATION.

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 15 LBS.
3. DAMPER MAY BE EXTERNALLY MOUNTED IF EXPLICITLY 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 SEA-DRAIN GROOVES, 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. BACKFILL SHALL BE THOROUGHLY COMPACTED.

DEPARTMENT OF TRANSPORTATION  
DIVISION OF STREET LIGHTING

NEW YORK CITY  
40' ALUMINUM LIGHTING STANDARD

NOTE:

DRAWING NO.  
REVISION  
DESCRIPTION

40' ALUMINUM LIGHTING STANDARD

DPW DATE DT DESCRIPTION

J-5281  
LP-015

40' ALUMINUM LIGHTING STANDARD

AS NOTED
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. SEND THE 7" 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.

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

H-5235
LP-016

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

H-5235
LP-016

REVISION
NOTES:
1. FOR 8'-0" ARM DETAILS AND ATTACHMENT, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-012.
2. FOR 4'-0" ARM DETAILS AND ATTACHMENT, SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARM-004.
3. FOR 2'-0" 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" GROUNDING STUD SHALL PROVIDE INSIDE SHAFT OPPOSITE HANDHOLE.
7. CONDUIT GROUNDING BUSHING SHALL BE IN LEVEL, WITH 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. and be 13" in height. The base shall be secured with stainless steel hardware.

DIMENSIONS:
The post shall have a luminaire mounting height of 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 phosphatation pretreatment, electrostatic powder application, and convection curing. Color to be specified.

CATALOG #: S4955-C107
COLOR: AS ADVER
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 4 3/4" dia. and be 12'-0" in height.

LUMINAIRE MOUNTING:
A 2.375" dia. fitter shall be an integral part of the arm provided for side 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 multistage process that includes phosphatation treatment, electrostatic powder application, and convection curing, color to be specified.

(SINGLE ARM POST)
- Catalog #: SAL-M-12
- Color: ADVISE

(TWIN ARM POST)
- Catalog #: SAL-M-12-BB-24"
- Color: ADVISE

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 4 3/4" dia. and be 12'-0" in height.

LUMINAIRE MOUNTING:
A 2.375" dia. fitter shall be an integral part of the arm provided for side 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 multistage process that includes phosphatation treatment, electrostatic powder application, and convection curing, color to be specified.

(SINGLE ARM POST)
- Catalog #: SAL-M-12
- Color: ADVISE

(TWIN ARM POST)
- Catalog #: SAL-M-12-BB-24"
- Color: ADVISE
NECK CAP COLUMN (ESTIMATED WEIGHT 125#)

PEDESTAL (ESTIMATED WEIGHT 401#)

3 1/16" 1 3/16" 9 1/2" 1/2" 7 5/8" 22 11/16" 5" 4 1/4" 1" 5 13/16" 1 3/4" 778 3/4" 4 1/4" 2'-2 7/8" 641 357 1/16"

DRILL FOUR 1" DIA. HOLES IN SIDEWALK FLANGE, EQUALLY SPACED.

NOTE: CENTERLINE OF DOOR OPENING SHALL BE AT 45° ANGLE TO LINE THRU DIAGONALLY OPPOSITE SLOTS IN FLANGE BELOW.

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

GAUGES (FOR COMPLETE SET REQUIRED)

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

ELEVATION OF DOOR OPENING SHOWING
RELATIVE LOCATION OF BOSS IN POST
SCALE: 3" = 1'-0"

SECTION ON 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"

FILL RECESS WITH PUTTY
BEFORE PAINTING
(2 PLACES)

BOSS ON DOOR & PEDESTAL
TO BE OF SUFFICIENT DEPTH
TO BE TAPPED FOR
1/4"-20 SCREW, 1" LONG,
STAINLESS STEEL, TYPE 78-8
MACHINE SCREWS
FURNISHED WITH BUTT
HINGE SHALL BE 1" LONG,
STAINLESS STEEL, TYPE 78-8
MACHINE SCREWS
FURNISHED WITH BUTT
HINGE SHALL BE 1" LONG,
STAINLESS STEEL, TYPE 78-8
MACHINE SCREWS
FURNISHED WITH BUTT
HINGE SHALL BE 1" LONG,
STAINLESS STEEL, TYPE 78-8
MACHINE SCREWS
FURNISHED WITH BUTT
HINGE SHALL BE 1" LONG,
N.Y. CITY

OLD DRAWING NO. SCALE:

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

TYPE "B" LAMPPOST

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

REVISION

UN V. DATE BT DESCRIPTION

N.T.S.

H-46

LP-022_3
NOTES:
1. HOUSING MATERIAL: CAST ALUMINUM ALLOY 356
2. FINISH: POLYESTER POWDER COAT
3. CASTINGS COLOR: SILVER FED. COLOR #27178
4. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH.
5. ALL VISIBLE HARDWARE SHALL BE COUNTERSUNK OR FLUSH.
NOTES:

1. HOUSING: CAST ALUMINUM 356 ALLOY
2. FINISH: POLYESTER POWDER COAT
3. CASTINGS 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

N.T.B.

Explored View Fixture Nose Detail A

N.T.B.

Notes:
1. Note cover: cast aluminum 356 alloy
2. Voltage indicator bracket: aluminum
3. Castings color: OR 08-00050, color 857-129
4. All visible screws must match luminaire finish
5. All visible hardware must be countersunk or flush

New York City

NY DOT STREET LIGHTING STANDARD DRAWINGS 2019-10-30
NOTES:
1. POLE: ROUND TAPERED STEEL ASTM A365 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 FE02.427178
5. ALL VISIBLE SCREWS MUST MATCH LUMINAIRE FINISH.
6. ALL VISIBLE HARDWARE SHALL BE COUNTERSUNK OR FLUSH.
SHROUD 2

KEYED FEATURES IN SHROUD AND BASE TO HELP WITH PROPER INSTALLATION

1/4 - 20 HEAD STAINLESS STEEL 3/8 INCH LENGTH

GROUND STRAP
6 AWG INSULATED WIRE TIN PLATED COPPER

1/4 - 20 HEX STAINLESS BOLTS 0.50 INCH LENGTH

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 MOUNT DETAIL

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

SHROUD 1 DETAILS

SHROUD 2 DETAILS

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

POLE MOUNT DETAIL

SCALE: 1 1/2" = 1'-0"
ARM ASSEMBLY 3D IMAGES

SEE DETAIL D

DETAIL D
NOTES:

1. CASTING SHALL BE ASTM A536-80 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" x 30" 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. FINAL TOP SHALL BE CAPPED WITH WEATHER PROOF CAP IF PHOTO ELECTRIC CELL WILL NOT BE INSTALLED.
NOTES:

1. CASTING SHALL BE ASTM A536-80 DUCTILE IRON, AS PER NYC DOT STREET LIGHTING STANDARD DRAWINGS [LP-029_1](https://example.com) AND [LP-029_2](https://example.com). 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 TUBING AND COLUMN WITH LEAD WOOL.

5. FOUR (4) 1\(\times\)30" 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.
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.

CURVE A

CURVE B

CURVE C

CURVE L

REVISION

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

BISHOP CROOK LAMPPOST

NEW YORK CITY

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

TYPICAL DIMENSIONS FOR BOTH TOP AND BOTTOMHALVES.

SLOT TO ACCOMMODATE MOUNT.

END OF THE SUPPORT (3 1/2" O.D. HEAVY STEEL TUBE).  

CAST ALUMINUM FINIAL.  

EXISTING THROUGH BOLT.  

APPROX. CROOK WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.

APPROX. WEIGHT OF CASTING: 40 LBS.

CONTRACTOR CAULK UNDER CASTING IN FIELD IF NECESSARY.

APPROX. WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.

APPROX. CROOK WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.

APPROX. CROOK WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.

APPROX. WEIGHT OF BASE CASTING: 350 LBS.

NOTE: TYPICAL DIMENSIONS FOR BOTH TOP AND BOTTOMHALVES.

SLOT TO ACCOMMODATE MOUNT.

END OF THE SUPPORT (3 1/2" O.D. HEAVY STEEL TUBE).  

CAST ALUMINUM FINIAL.  

EXISTING THROUGH BOLT.  

APPROX. CROOK WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.

APPROX. WEIGHT OF CASTING: 40 LBS.

CONTRACTOR CAULK UNDER CASTING IN FIELD IF NECESSARY.

APPROX. WEIGHT INCLUDING CAST ORNAMENTATION: 80 LBS.
OF ACCESS DOOR

AND NEW YORK CITY

ID LABEL

15" DIA. BOLT CIRCLE

OF MAST ARM

CURB

TRAFFIC FLOW

(4) SLOTS 3" x 1 1/4"

LOCATED 90° APART

11" DIA. CLEAR OPENING

SECTION A-A

SCALE: 1" = 1'-0"

20 3/4" (+1/4" -0" TOL.)

63 5/8"

1 1/4"

1"

1/4" - 20 TAP HOLE ON BOTH BOSSES

RAISED LETTERS 1/8" DEEP x 1 1/2" HIGH x 1 1/2" WIDE - 1/4" STROKE

PEDESTAL DETAIL

SCALE: 2" = 1'-0"

9 1/8"

3 4/8"

9 1/8"

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. DOOR DETAIL IS FOR REFERENCE ONLY.

5. (H) SLOTS 3" x 1 1/4" LOCATED 90° APART

6. TRAFFIC FLOW

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

PEDESTAL, COLUMN AND CAPITAL FOR DECORATIVE POSTS (BC, M AND 5TH AVE LAMPPOSTS) AS NOTED

H-5275 LP-029_1
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.
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-13

"F" POLE CAST ALUM. CASTING NO 5. "F" POLE MOBILIZATION
22'-0"± INTO HANGER NIPPLE CAST
20'-4"± TO THE LIGHT CENTER "F" POLE BAR, ARM, AND "F" POLE MOBILIZATION
11'-8"± (CAST DUCTILE IRON PEDESTAL)
8'-11 1/8"± 
ONE PIECE DUCTILE ITEM CASTING NO 1.
4 1/2"± DIA.
ITEM SL-SP-1

"F" POLE ONE PIECE DUCTILE CASTING NO 2.
6 1/2"± DIA. TAPERED 10 SEGMENT SECTION
3 1/2" DIA. SCH 80 STEEL / 443 ALUM. ALLOY TAPERED SHAFT EXTENSION OR AS OTHERWISE REQUIRED BY DESIGN CALCULATIONS
SEE DETAIL A
SEE SECTION A-A
SCALE: N.T.S.
20"± DIA.

RELATED ITEMS
SL-20.05.07-X/SL-22.05.07XX
SL-2/SL-3

PHOTO CONTROL ITEM
GASKET LOCATED INSIDE CONTROL WITH 1/8" THICK NEOPRENE
TWIST LOCK PHOTO RECEPTACLE AS PER NYCDOT STREET LIGHTING RECEPTACLE SHALL HAVE WEATHERPROOF PROTECTION OF CROSS ARM OF NEW YORK CITY LABEL
SEE "SECTION A-A" FOR LOCATION
SCALE: N.T.S.

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

MODIFIED TYPE F LAMPPOST, WITH SINGLE ARM

REVOLUTION

NEW YORK CITY L.E.D. DROP IN TYPE 2001
24±
HEIGHT:
MATERIAL:
GLAZING:
FINISH:
LAMPS:
VOLTAGE:
Socket:
DISTRIBUTION:
DEFINITION:

NOTES:
1. STEEL / ALUMINUM SHAFT SEGMENTS SHALL BE FULL DEPTH WELDED CONTINUOUS, AS NOTED
2. COLOR SHALL BE BLACK. FINISH SHALL BE AS DIRECTED.
3. BOLT CIRCLE SHALL BE 15".
4. FABRICATOR SHALL PROVIDE DESIGN CALCULATIONS FOR NEW SINGLE ARM MODIFIED "F" POLE ASSEMBLY AT ALL CONNECTION POINTS FOR APPROVAL BY NYCDOT BUREAU OF STREET LIGHTING DEVELOPMENT / MOBILIZATION ITEM. STREET LIGHTING. DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH NYCDOT STANDARDS AND SHALL INCLUDE "BANNER" LOADING. PAYMENT SHALL BE INCLUDED IN PRICE BID FOR STREET LIGHTING DEVELOPMENT / MOBILIZATION ITEM.
5. LAMPPOST FOUNDATION SHALL BE IN ACCORDANCE WITH NYCDOT REQUIREMENTS, REFER TO NYC DOT STREET LIGHTING STANDARD DRAWING FDN-001 (WITHOUT CAP) AND THE REQUIREMENTS OF NYCDOT.

REPURPOSED MATERIAL:

MODEL, BASE:

COLOR:
FINISH:
HEIGHT:
SHAFT:
CAP:
SOLAR APPLICATIONS:

SCALE:
OLD DRAWING NO.
DRAWING NO.

AS NOTED
H-5296
LP-030_3
MODIFIED TWIN ARM "F" POLE WITH TRAFFIC SIGNAL HEAD

MODIFIED TWIN ARM "F" POLE

22'-0" ± 24'-0"

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

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

OLD DRAWING NO.
NEW DRAWING NO.

SCALE: 1"

REVISION

DATE
ST
DESCRIPTION

N.T.S.

H-5296

LP-030_4
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.

4. PROVIDE METAL THREAD PROTECTORS.

NOTE: CHANGE CORE TO SUIT.

NEW YORK CITY:

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

OLD DRAWING NO.

SCALE: 6" = 1'-0"

NEW DRAWING NO.

SCALE: 6" = 1'-0"

NOTE: ALL BOLTS AND SCREWS TO BE STEEL, CADMIUM PLATED AND ALL NUTS TO BE BRASS.

NOTE: CHANGE CORE TO SUIT.
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 changes from integral genuine wrought iron to steel, cadmium plated 1 1/4" nipple, core.

NOTE: Change core to suit.

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 LUMINARE.
NOTES:

1. MATT: LOW ALLOY HIGH STRENGTH STEEL, CORTEN OR EQUAL.
2. SHAFT EXT. 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.

SCALE: 1" = 1'-0"

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

SCALE: 3" = 1'-0"

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

SCALE: 3/8" = 1'-0"
**NOTES:**

1. **BASE** shall be primed and painted. Finish shall be as specified.

2. **ALL HARDWARE (SCREWS, 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. 16 Stainless Steel Rivets, 3/16" 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 retainer, 4 required per door.

5. As an alternate grounding method, drill and tap bottom plate for 5/16-18 threaded connection.

6. The following hardware are required when installing the base: Bronze split lock washer, 3/16" Heavy Nut (5/16" across flat), 3/16" Nic Bunsen Grounding Stud Or Equal, 3/16" Stainless Steel Washers.

7. Furnish one (1) Allen Wrench with every 20 bases. Set of socket shall be 3/16". Nominal width across flats shall be 0.3160 max., 0.3125 min.

8. The following shall be stamped on the base: N.Y. City (1/2" letters), Year of MFG: 20XX (1/4" letters), Name of Mfr (3/16" letters),

**DETAIL A** Ground Stud Nut Retainer

**SECTION A-A**

- Door Frame
- Ground Stud
- Square Nut
- 1/2"-13 Button Head Socket Screw, see note 4

**SECTION B-B**

- Door
- Retainer Washer
- 1/32"-13 Button Head Socket Screw, see note 4

**DETAIL C**

- Locking Device

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

**NOTES:**

- Base shall be primed and painted. Finish shall be as specified.
- All hardware (bolts, nuts, hinges, etc.) shall be stainless steel, 300 series.
- Hinges shall be full height of door with clearance for top and bottom edges of door opening. 16 stainless steel rivets, 3/16" diameter shall fasten doors to base.
- Locking device shall be 1/2-13 button head socket screw, approximately 1-1/4" long, with dog point for aligning nut and retainer, 4 required per door.
- As an alternate grounding method, drill and tap bottom plate for 5/16-18 threaded connection.
- The following hardware are required when installing the base: Bronze split lock washer, 3/16" heavy nut (5/16" across flat), 3/16" Nic Bunsen grounding stud or equal, 3/16" stainless steel washers.
- Furnish one (1) Allen wrench with every 20 bases. Set of socket shall be 3/16". Nominal width across flats shall be 0.3160 max., 0.3125 min.
- The following shall be stamped on the base: N.Y. City (1/2" letters), Year of MFG: 20XX (1/4" letters), Name of Mfr (3/16" letters).
M2 TRAFFIC COMBO
SCALE: 3/16" = 1'-0"

SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-033 FOR SHAFT, ARM, BRACE AND FINIAL DETAILS

P.E.C.
7'-0"
#11 GA

SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-033 FOR SHAFT, ARM, BRACE AND FINIAL DETAILS

SHAFT EXTENSION
1'-6"
9"
1'-0"
2'-0"

WELD RING TO PIPE (ALL AROUND)

4" STEEL PIPE (SCHEDULE 40, 4.5" O.D.)

WELD POLE CAP TO SHAFT AND PIPE (ALL AROUND)

M2 POLE CAP DETAIL (CAST STEEL)
SCALE 1 1/2" = 1'-0"

TBTA EXTENSION SHAFT (11 GA)

WELD POLE CAP TO PIPE (ALL AROUND)

THREADED 1/2"-13 (100)

WELD RING TO PIPE (ALL AROUND)

1/2" STEEL PIPE (SCHEDULE 10, 1.9" O.D.)

NOTES:

1. "TBTA" LUMINARE SHALL BE "TEARDROP" LUMINARE (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.

TBTA M-2 SHAFT EXTENSION

ARM SIZES

M-2 SHAFT
WELD POLE CAP TO SHAFT AND PIPE (ALL AROUND)

4" STEEL PIPE (SCHEDULE 40, 4.5" O.D.)

M-2 POLE CAP
CAST STEEL, 3/8" THICKNESS

SET SCREWS
1 3/4" LONG

LUMINARES

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

BOLT, SCREW, NUT, WASHER, HINGE
STAINLESS STEEL

OPENING FOR 4 1/2" O.D. PIPE

WASHER, HINGE
STAINLESS STEEL

DRAWING NO.
J-5310-B

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 DRAWING, 2019-10-30

OLD DRAWING NO.
LP-034

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

DESIGNATED DRAWING
J-5310-B

DATE

ST
DESCRIPTION

AS NOTED
NOTE:
ALL EDGES ON ALL PARTS INCLUDING WIRE HOLE IN POLE PLATE AND HOLE IN SHAFT SHALL BE DE-BURRED AND NOT SHARP.

ALL PARTS SHALL BE WELDED TO THE SHAFT, DRILLED AND THREADED BEFORE GALVANIZING.

ALL POLE PENETRATIONS SHALL BE SEALED USING APPROPRIATE SIZE RUBBER PLUGS.
SHAFT BASE AND BOLT COVER GAUGE 3

1/4"-20 STAINLESS STEEL INSERT, (8) REQ'D. INSTALL FROM BOTTOM OF PLATE. (SEE DETAIL BELOW.)

1 1/8" (+1/16", -0") SQUARE HOLE FOR 1" - 8 CARRIAGE BOLTS, (4) REQ'D. HOLES SHALL BE PARALLEL TO EDGES OF PLATE

INSTALLATION NOTE:
WHEN SHAFT AND BASE PLATE ASSEMBLY IS MOUNTED DIRECTLY ON A FOUNDATION, WITHOUT TRANSFORMER BASE, THE 1" DIA. FOUNDATION ANCHOR BOLTS SHALL BE INSTALLED ON A 10 7/16"±1/16" DIA. BOLT CIRCLE.

(24) RIDGES AROUND CIRCUMFERENCE, 1/64" DEEP x 5/8" LONG

DETAIL OF INSERT
MAT'L: ST. STL. 18-8 (304)
SCALE: 1'-0" = 1'-0"

DIMENSIONS:
1/16" ±1/16" DIA.

REFERENCE DIMENSIONS:
3 5/16" ± 1/16"
7 3/8" ± 1/16"
3 11/16" ± 1/16"
10 3/4" SQ.

A A
CL

BOLT COVER DETAIL
MAT'L: CAST IRON, H.D. GALV. OR ALLOY OF ALUMINUM AND ZINC EQUAL TO KORLOY

SCALE: 6" = 1'-0"

1/4"-20x3/4" LG. HEX. HEAD CAP SCREW, STAINLESS STEEL, (8) REQ'D.

SIDE ELEVATION
CONTINUOUS WELDS

PLAN OF BASE
WITH THREE COVERS REMOVED
SCALE: 6" = 1'-0"

R1 9/16"
1 3/16"
13/16"
2 1/2"
7/8"
5/8"
R1 1/4"
7/32"
2 7/16"
STREET LIGHTING ARMS DRAWINGS
8'-0" TAPERED STEEL SINGLE MEMBER ARM
FOR FABRICATED STEEL POLE

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, 2021-08-25

8'-0" TAPERED STEEL SINGLE MEMBER ARM
FOR FABRICATED STEEL POLE

NOTE: EDGES OF WIREWAY HOLE IN SHAFT, POLE PLATE, AND ARM PLATE SHALL BE DE-BURIED AND NOT SHARP.

DETAIL OF MOUNTING ARM ON OCTAGONAL SHAFT
(ROUND SHAFT SIMILAR)
SCALE: N.T.S.

ELEVATION OF ARM
FINISH: H.D. GALV.
SCALE: N.T.S.

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

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

NOTE: ALL PARTS SHALL BE WELDED, DRILLED AND THREADED BEFORE GALVANIZATION.

3/4" 5/8" SLOTTED HOLES
OUTLINE OF FLATTENED AREA
1 1/2"x2" HOLE

NOTE: EDGES OF WIREWAY HOLE IN SHAFT, POLE PLATE, AND ARM PLATE SHALL BE DE-BURIED AND NOT SHARP.

DETAIL OF MOUNTING ARM ON OCTAGONAL SHAFT
(ROUND SHAFT SIMILAR)
SCALE: N.T.S.

NOTE: EDGES OF WIREWAY HOLE IN SHAFT, POLE PLATE, AND ARM PLATE SHALL BE DE-BURIED AND NOT SHARP.
12'-0" STEEL BRACKET ARM
FOR FABRICATED STEEL POLE

SEE DETAIL X
BEVEL EDGES OF OPENING

7/4" BRACKET
2" RADIUS

2'-0" STRAIGHT
2" STD. BLACK STL. PIPE (2-3/8" O.D.)
1-1/2" STD. STL. PIPE (1-9/16" O.D.)
1" DIA. ROUND STL. BAR
10" STRAIGHT

ELEVATION OF ARM
SCALE: 3/8"=1'-0"

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

NOTE:
1. EDGES OF WIREWAY HOLES IN SHAFT, POLE PLATE AND ARM PLATE SHALL BE DEBURRED AND NOT SHARP.

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

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

NEW YORK CITY
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.
BEND STRAP & PIPE ARM ASS'Y.

NOTE:

FURNISH TWO (2) 1/2"-13x1 1/2" LONG AND ONE (1) 1/2"-13x1" LONG STAINLESS STL. CAP SCREWS WITH LOCKWASHERS, FOR EA. ARM. STAINLESS STEEL SHALL BE TYPE 18-8, 303 SERIES.
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:
- STEEL (THICKNESS AS SPECIFIED)
- BOLT, SCREW, NUT, WASHER (HDG.
- STAINLESS STEEL WASHERS, HINGE MATERIALS:

DRAWING NO. J-5310-C
NEW YORK CITY
NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

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

TYPE "TBTA" BRACKET
FOR WOOD POLE

OLD DRAWING NO.
SCALE: N.T.S.
NEW YORK CITY
LUMINAIRE DRAWINGS
NOTES:
1. LED COBRAHEAD LUMINAIRE SHALL BE AS PER NYC DOT STREET LIGHTING STANDARD SPECIFICATIONS NUMBER 486.
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.
NOTE:
1. REFER TO SPECIFICATION NO. 465 FOR ADDITIONAL DATA & REQUIREMENTS,
2. LUMINAIRE DESIGN COULD VARY AS PER APPROVED MANUFACTURER.
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.
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"

TRANSPARENT ACRYLIC PANELS

FINIAL
3'-0 1/16"
1'-2 11/16"
1'-7 1/2"
1'-7 1/2"
7 13/16"
2'-5 3/16"
1'-5"
1'-5"
1 7/16"
1 7/16"
1'-0 9/32"
FOUNDATION DRAWINGS
NOTES:
1. THREADS FOR ANCHOR BOLTS, STUDS AND COUPLING SHALL BE 1"-8 N.P.C.
2. ALL NEW FOUNDATIONS SHALL HAVE A MINIMUM OF TWO 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 MALLET COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALVANIZED STEEL PIPE CAP.
3. PROVIDE 4 SEMI-ROUND DRAIN GROOVES, 1" IN DIAMETER.
4. FOUNDATIONS TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDIcATED ON PLAN.
5. 1" - 8 H.D. GALV. STEEL STUD 5" LONG, FULLY THREADED, WITH HEX NUT.
6. 2" MESH #6 GA. WIRE.
7. PROVIDE A 6" DIAMETER GRAND DRAIN GROOVE AT THE GROUNDING BUSHING OR AT THE CURB.
8. PROVIDE 4 SEMI-ROUND DRAIN GROOVES AT THE FOUNDATION.

PROVIDE:
- 4 - 1" FOUNDATION ANCHOR BOLTS
- 4 - 1 1/2" CONDUIT OR 2" CONDUIT
- H.D. GALV. STEEL COUPLING
- CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDIcATED ON PLAN.

FILL WITH:
- CONCRETE

CONDUIT TO BE USED:
- H.D. GALV. STEEL
- H.D. GALV. STEEL COUPLING

OUTLINE OF:
- TRANSFORMER BASE
- TWIN ARM POST
- SINGLE ARM POST
- CITY STREETS

DOOR OPENING SIDE:
- 45° CHAMFER

SIDEWALK SLOPE:
- 1/2" SLOPE

CURB:
- TOP OF SIDEWALK OR MALL Curb
- ROADWAY CURB

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

NYSTP STREET LIGHTING STANDARD DRAWINGS
2019-10-30
15" DIA. ANCHOR BOLT CIRCLE FOR LAMPPOST ON CITY STREETS

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.

4. CONDUITS TO EXTEND TO BOTTOM OF DOOR.

5. CONDUIT MUST HAVE A COUPLING.

6. CONDUIT TO BE EXTENDED BY OTHERS UNLESS OTHERWISE INDICATED ON PLAN.

7. OUTSIDE FACE OF CURB (TYP)

8. INTERNAL FACE OF CURB (TYP)

9. FACE OF SIDEWALK (TYP)

10. 1" POLY-GALV STEEL STUD 7" LONG FULLY THREADED WITH HEX NUT AND LUGS

11. 1" MALLEABLE IRON BOLT COUPLING 3" LONG

12. BRONZE GROUNDING BUSHINGS SPRING CITY OR OZ. TYPE G.B. OR EQUAL.

13. (4) - 1" ANCHOR BOLTS.

14. FOUNDATION FOR TYPE BISHOP'S CROOK AND TYPE M LAMPPOSTS

15. NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-13
NOTES:
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. 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.

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 2'x2' 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 PLAN, 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 1/2" - 8 N.C.
4. ALL POLES ON GROUP CONTROL SHALL HAVE 1 1/2" H.D.G. CONDUIT UNLESS OTHERWISE INDICATED ON PLAN.
PRECAST CONCRETE FOUNDATION CAP

20" SQUARE

45.0°

3'-6"

18"

1 1/2"

2"

30"±1/4"

4" C

4" L

1:2:3 1/2 MIX

45° CHAMFER

6" DIA.

3/4"

1/2"

(4) 1" DIA. HOLES ON 10 7/16" DIAMETER BOLT CIRCLE

PROVIDE (4) SEMI-ROUND DRAIN GROOVES 1" IN DIAMETER

PROVIDE (4) SEMI-ROUND DRAIN GROOVES 1/2" IN DIAMETER

C

L

1 1/2" H.D. GAL. STEEL COND. OR AS CALLED FOR ON PLANS

10-7/16" B.C.

1/2" R DRAIN GROOVES

30"±1/4"

30"

1/2" MALLEABLE IRON BOLT COUPLING, IF LONG

(4) 3/4"-10 STUD 8" LONG, FULLY THREADED H.D. GALV. STEEL

FOR CONDUIT, ANCHOR BOLTS, COUPLINGS, A HARDWARE SEE FOUNDATION WITHOUT CAP

EXTEND CONDUIT UP TO BOTTOM OF HANDHAOLE

(4) 3/4"-10 STUD IF LONG, FULLY THREADED H.D. GALV. STEEL

H.D. GALV. STEEL NIPPLE

(4) 3/4" DIA. STEEL ANCHOR BOLT WITH 4" THREAD. THREAD SHALL BE H.D. GAL. FURNISHED HEX. NUT, CAPNUT, FLAT WASHER & LOCKWASHER WITH EACH ANCHOR BOLT, H.D. GALV. STEEL

NOTE:

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, IN THE TRANSFORMER BASE BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALV. STEEL TITE CAP,

20" SQUARE

1" = 1'-0"

H-5124

FDN-005

NEW YORK CITY

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30

FOUNDATION FOR TYPE WF 12'-0" STEEL AND TYPE FM LAMPPOSTS

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

OLD DRAWING NO.

SCALE:

NEW YORK CITY

REVISED

DATE

DESIGNER

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

FOUNDATION FOR TYPE WF 12'-0" STEEL AND TYPE FM LAMPPOSTS

REVISION

NEW YORK CITY

DRAWING NO.

NO

DATE

BY

DESCRIPTION

1" = 1'-0"

H-5124

FDN-005
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 LAMPPOST WITHOUT TRANSFORMER BASE AS PER NYC DOT STREET LIGHTING STANDARD DRAWING (H-5220).

3. 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 (718) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCEMENT OF WORK."
PLAN

OUTLINE OF TYPE 8S SHOE BASE

HAND HOLE SIDE

PRECAST CONCRETE CAP EQUAL TO MALL CURB

INSIDE FACE OF CURB

FACE OF SIDEWALK OR MALL CURB

PRECAST CONCRETE FOUNDATION CAP - SEE DETAIL BELOW

FILL WITH 1/2 MORTAR MIX

SECTION A-A

TYPE 8S LAMPPOST

NOTES:

1. GROUND BUSHING 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 ON 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.
3'-0" 3' TO SIDEWALK CURB FOR SINGLE ARM POST ON CITY STREETS 3'-0"
15" DIA. BOLT CIRCLE OUTLINE OF TRANSFORMER BASE
DOOR OPENING SIDE SEE NOTE 3
45° PLAN INSIDE FACE OF CURB

PLAN

SECTION FOUNDATION FOR LAMPOST WITH PRECAST CAP
4 - 1 1/4" FOUNDATION ANCHOR BOLTS, THREAD LENGTH TO BE 4" CLASS 1 CONCRETE (1:2:4)

NOTE:
1. THE CONTRACTOR SHALL CAP CONDUIT WHERE FOUNDATION IS INSTALLED. FOR LAMPOST INSTALLATION BY OTHERS, GROUNDING BUSHING SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR INSTALLING LAMPOST.
2. THREADS FOR ANCHOR BOLTS, STUDS, AND COUPLINGS SHALL BE 1 1/4" N.C.T.
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 LAMPOST 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.

CLASS 1 CONCRETE (1:2:4)
1 1/4" H.D. GALVANIZED STEEL STUD, 9 1/2" LONG, 4" THREAD ON EACH END WITH HEX. NUT
ANCHOR BOLT

PRECAST CONCRETE FOUNDATION CAP
1 1/4" H.D. GALVANIZED STEEL STUD, 9 1/2" LONG, 4" THREAD ON EACH END WITH HEX. NUT
ANCHOR BOLT

NOTES:
1. THE CONTRACTOR SHALL CAP CONDUIT WHERE FOUNDATION IS INSTALLED. FOR LAMPOST INSTALLATION BY OTHERS, GROUNDING BUSHING SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR INSTALLING LAMPOST.
2. THREADS FOR ANCHOR BOLTS, STUDS, AND COUPLINGS SHALL BE 1 1/4" N.C.T.
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 LAMPOST 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.

SECTION FOUNDATION FOR LAMPOST WITHOUT PRECAST CAP
4 - 1 1/4" ANCHOR BOLTS, THREAD LENGTH TO BE 4"
H.D. GALV. STEEL NIPPLE
MINIMUM CONC. COVER BELOW CONDUIT SHALL BE 3". CONDUIT TO BE AS LOW AS POSSIBLE, BUT NOT TO EXCEED 24".

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<tr>
<th>DEPTH OF FOUNDATION = D</th>
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<tr>
<td>2'-0&quot; - 2'-5&quot;</td>
<td>4'-0&quot;</td>
<td>VARIES 1'-2&quot; - 1'-7&quot;</td>
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<tr>
<td>2'-6&quot; - 3'-11&quot;</td>
<td>3'-4&quot;</td>
<td>VARIES 1'-3&quot; - 2'-0&quot;</td>
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<td>3'-0&quot; - 3'-5&quot;</td>
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<td>3'-6&quot; - 3'-9&quot;</td>
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*MINIMUM CONC. COVER BELOW CONDUIT SHALL BE 3", CONDUIT TO BE AS LOW AS POSSIBLE, BUT NOT TO EXCEED 24".

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", REQUIRED REINFORCEMENT IS ShOWN.

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."
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. Fill 1" space with cement (if opted) for drainage.
6. Bronze grounding bushing furnished and installed by contractor installing lamp post.
7. As an option, a 15" pad may be utilized without a second wire mesh. Deepened depth 1'-6".
8. Foundation to be utilized only on arterial highways. See note 9 for carriageway and shoulder.
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 4" riser conduit elbows. One for the service and one as a spare. An upward conduit elbow shall be used at the grounding bushing and under the curb by 1/2" galvanized steel pipe cap.
12. For alternative precast foundation reference to NYC DOT Street lighting standard drawings J-3895.

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. Fill 1" space with cement (if opted) for drainage.
6. Bronze grounding bushing furnished and installed by contractor installing lamp post.
7. As an option, a 15" pad may be utilized without a second wire mesh. Deepened depth 1'-6".
8. Foundation to be utilized only on arterial highways. See note 9 for carriageway and shoulder.
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 4" riser conduit elbows. One for the service and one as a spare. An upward conduit elbow shall be used at the grounding bushing and under the curb by 1/2" galvanized steel pipe cap.
12. For alternative precast foundation reference to NYC DOT Street lighting standard drawings J-3895.

SUMMARY SHEET FOR PRECAST FOUNDATION FOR STANDARD 8S, 25' ALUMINUM, WF OR DAVIT (STEEL OR ALUMINUM) LAMPPOSTS
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 BASE PLATE.
6. PREHEAT, TUMBLEBLAST, HANDGRIND, AND CLEAN BASE PLATE, HELIX, AND PILOT POINT ON ALL WELDED AREAS.
7. FLAME CUTTING OF IRREGULARITIES IS PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 3/32" IN. BELOW NORMAL SURFACE LEVEL. (2) PEAKS OR POSITIVE IRREGULARITIES NOT TO EXCEED 1/32" ABOVE NORMAL 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.
   ALTERNATE MATERIAL: ASTM A53 -(LATEST REVISION) TYPE E OR S, GRADE B, STEEL PIPE OR ASTM A500 -(LATEST REVISION) GRADE B, STRUCTURAL STEEL TUBE.
   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. 51121702, OR APPROVED EQUAL.
6" DIA. CENTER HOLE

6 1/2" X 3 1/2" GALV. CARRIAGE BOLT
(4)

0.75" NUTS
(4)

ROUND WASHERS
(4)

RETAINING WASHERS
(4)

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°

2.5" SEE NOTE 5

12" DIA. HELIX

8.5 TO 17 DIA. BOLT CIRCLE

6.63" OUTSIDE DIA.
0.28" WALL THICKNESS

ISOMETRIC VIEW

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

NOTES:
1. FINISH: HOT DIPPED GALVANIZED PER ASTM-A153 (LATEST REVISION).
2. BASE PLATE TO BE PERPENDICULAR TO THE SHAFT AXES (± 1") AND HOLE CENTERLINE CONCENTRIC (±0.188") TO SHAFT AXES.
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 REGULARITIES IS PERMISSIBLE: (1) VALLEYS NOT TO EXCEED 3/32" BELOW NOMINAL SURFACE LEVEL, (2) PEAKS OR POSITIVE REGULARITIES 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 A500 (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. T1121700, OR APPROVED EQUAL.
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 FOUNDATION:
   A. BOLT DIAMETER, LENGTH AND BOLT CIRCLE
   B. STUD LENGTH
   C. LAMPPPOST 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 LAMPPPOST 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.
   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 GALVANIZED STEEL PIPE CAP.
5'-0" DIA. 10 GA. STEEL DRUM
WITH WELDED SEAM

15" DIA. BOLT CIRCLE

24" FOR SINGLE FEED LAMPPOST
18" FOR GROUP CONTROLLED LAMPPOSTS

MALLEABLE IRON BOLT COUPLING

2'-0" SQ. "Z" "X" "Y"

1'-6"

3"

4 - 6" PROTECTING PIPES WITH CAP, FILLED WITH CONCRETE AFTER SETTING.

FOR ALTERNATE "B" INSERT (4) 1/2" DIA. X 7'-6" LG. REINFORCING RODS, EQUALLY SPACED, IN EACH 6" PIPE AFTER POURING CONCRETE.

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.

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

NEW YORK CITY DEPARTMENT OF TRANSPORTATION DIVISION OF STREET LIGHTING 34-02 QUEENS BLVD L.I.C., N.Y. 11101 WHEEL GUARD DETAILS FOR TYPE 8S LAMPPOST OLD DRAWING NO. D-3044-A REV NO. FDN-017 DRAWING NO. 2019-11-15
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 1/2" 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 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."
EXISTING FOUNDATION

EXISTING SERVICE CONDUIT

CURB 15" DIA.

BOLT CIRCLE 90° 1" DIA. ANCHOR (4) 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 RECESS 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 SERVICE CONDUIT

EXISTING CONCRETE FOUNDATION

ELEVATION METHOD OF MOUNTING LAMPPOST ON EXISTING FOUNDATION

ELEVATION (SECTION)

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

NOTE "B"

1" THREADED ROD WITH HILTI CORP. C-100 RESIN AND 1" THREADED ROD WITH KELKEN-GOLD INC., KEL-BOND, OR EQUAL, ARE APPROVED ADHESIVE TYPE ANCHORS IF INSTALLED IN ACCORDANCE WITH 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 DRAWINGS: CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 839-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK.
NOTES:

1. THIS FOUNDATION IS ONLY FOR USE WITH 50' STEEL LAMPPOST AS PER NYCDOT 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 LAMPPOST 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 HD GALV. STEEL PIPE CAP.
1. THIS DRAWING APPLIES TO SIZE AND LOCATION OF LAMPPOST 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) 685-3352 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."

WHERE LAMPPOST ANCHORAGE IS INSTALLED, USE 3/8" STEEL ANCHOR BOLTS, MALLEABLE IRON BOLT COUPLINGS AND 9" H.O. GALV. STEEL STUDS WITH PRECAST CONCRETE CAP.
CONDUIT SHALL BE BENT UPWARDS TO AVOID CHANNEL, THEN BENT INTO CONDUIT SLOT OF 1" BASE PLATE TO CLEAR TRANSFORMER BASE FLANGE.

CONDUIT BUSHING

APPROX. 3'-0" CURTAIN WALL - 3' MIN.

18"x18"x11" STEEL BASE PLATE

GRATING

SLOT GRATING TO PROVIDE SUFFICIENT CLEARANCE FOR INSTALLATION OF 1" DIA. ANCHOR RODS AND 1 1/2" CONDUIT.

H7G HEX NUTS, FLAT WASHER AND LOCK WASHER

FRAME FOR TYPE 8S LAMPPOST IN SUBWAY FLUE

10" DIAMETER CIRCLE

REVERSAL COUPLING

1 1/8" STEEL PLATE

WELD ALL AROUND TOP AND BOTTOM (TYP.)

CUT 1/8" GROOVE

4 1/2" DIA. ANCHOR RODS, 3" LONG THREAD E.E. WITH HEX NUT, WASHER AND LOCK WASHER AT E.E.

TRANSFORMER BASE

SEE DETAIL A

E.L.P.

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.

2" CONDUIT (3/4" I.D.), GALVANIZED STEEL, CAPPED BELOW CURTAIN WALL, 2'-0" BELOW ROADWAY GRADE.

3" GALVANIZED STEEL, PIPE SLICE AT CURTAIN WALL, IN PLACE AND LAP AND SEAL WATERPROOFING

CAULK WITH OAKUM

2" SLIT GRATING TO PROVIDE SUFFICIENT CLEARANCE FOR INSTALLATION OF 1" DIA. ANCHOR RODS AND 1 1/2" CONDUIT.

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

FND-022_3
1. Reinforcing Rods shall be 1/2" Dia. deformed on 6" centers. Concrete Mix - 1:2:4.

2. 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) 839-3322 approximately 72 hours before commencing work."
NOTE:

1. 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) 858-3322 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" STRAIGHT DRAIN GROOVES.

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

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 BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALV STEEL PIPE CAP.

ELEVATION OF NEW LAMPPOST FOUNDATION

SECTION A-A

REVISED

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

NEW YORK CITY

SCALE: 1" = 1'-0"

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

FDN-025

DRAWING NO.

OLD DRAWING NO.

DRAWING DATE

SIGNATURE

DESCRIPTION

10'-0"±

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" STRAIGHT DRAIN GROOVES.

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

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 BY DURABLE COVER AT THE GROUNDING BUSHING, AND UNDER THE CURB BY H.D. GALV STEEL PIPE CAP.

ELEVATION OF NEW LAMPPOST FOUNDATION

SECTION A-A

REVISED

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

NEW YORK CITY

SCALE: 1" = 1'-0"

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

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ELEVATION OF NEW LAMPPOST FOUNDATION

SECTION A-A

REVISED

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

NEW YORK CITY

SCALE: 1" = 1'-0"

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

FDN-025

DRAWING NO.

OLD DRAWING NO.

DRAWING DATE

SIGNATURE

DESCRIPTION
15" DIA. BOLT CIRCLE
1" DIA. SEMI-ROUND DRAIN GROOVES

45° 45°

1" x 45° CHAMFER

C X

Y

24" 24"

6" 18"

4"

3"

1/2" SLOPE TO DRAIN

5/8" INSERTS

4" DIAM. KNOCK-OUTS

SECTION X-X

SCALE: 1" = 1'-0"

SECTION Y-Y

SCALE: 1" = 1'-0"

NOTES:
1. FOUNDATION BOX COMBO #1 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.
8"x8" BROKEN STONE
DRAIN
WALL INSERT - MURRAY CAT. RX004M OR EQUAL
LOCATE IN CENTER OF BOX.

4x4 6/6 WELDED WIRE MESH AT ROOF, WALLS & FLOOR

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

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

(4) 3/4"-10 STUD H.D. GALV. STEEL 5" LONG, FULLY THREADED (SEE NOTE 8)
(4) 3/4" MALLEABLE IRON 3" LONG BOLT C'PLG (4) REQ'D.

REINFORCED CONCRETE
CEMENT - 1 PART - HIGH GRADE PORTLAND CEMENT
FINE AGGREGATE - 2 PARTS - CLEAN, NATURAL SAND OR SCREENING FROM TRAP, GRANITE OR GRAVEL.
COARSE AGGREGATE - 4 PARTS - CLEAN, HARD CRUSHED ROCK OR GRAVEL, TO PASS 1" CIRCULAR OPENING IN SCREEN.
WATER - ONLY CLEAN, FRESH WATER IS TO BE USED.

NOTES:
1. STANCHIONS ARE MURRAY NOS. RF 108 OR EQUAL (2 REQ'D).
2. CONDUITS TO RIDE FREELY THROUGH HOLES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.
3. A ONE CUBIC FT. BROKEN STONE DRY WELL SHALL BE PROVIDED UNDER BOX DRAIN.
4. HANGERS ARE MURRAY NO. RG107 (2 REQ'D) OR EQUAL. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
5. FURNISH WITH COUPLING AND CONDUIT GROUNDING BUSHING OZ. TYPE GB OR EQUAL ON CONDUIT.
6. INSTALLATION NOTE: CONDUIT SHALL BE EXTENDED UP TO BOTTOM LINE OF DOOR ON LAMPPOST BEFORE INSTALLING LAMPPOST.
7. BOLT CIRCLE SHALL BE 10 7/6" FOR TYPE FMP AND WF LAMPPOSTS, AND SHALL BE 12 1/2" FOR TYPE B LAMPPOST.
8. STUD LENGTH COULD VARY AND SHALL CONFORM TO USED TYPE OF LAMPPOST.
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 NOTE SHALL APPEAR ON ALL PRINTS: "CONTRACTOR SHALL NOTIFY DIVISION OF STREET LIGHTING INSPECTION AT (212) 689-3322 APPROXIMATELY 72 HOURS BEFORE COMMENCING WORK."
ASSEMBLY OF LAMPPOST SUPPORT

1 1/2" STEEL BOLT, LOCK WASHER & NUT

BITUMASTIC COATING

BEARING PLATE

OUTER BRACKET BOARDWALK RAILING SIDE

INNER BRACKET

STAINLESS STEEL BOLT, LOCK WASHER & NUT

GROUNDING BUSHING

1 1/8" HOLES

PORTHOLE

DETAIL OF LAMPPOST BEARING PLATE

PLAN VIEW

H.D. GALV. STEEL

DETAIL OF BRACKET PLAN VIEW

H.D. GALV. MALLEABLE IRON

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 SYSTEM 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.
1. TURN STNLS. STL. NUTS WITH 1 7/8" O.D.x1 3/32" I.D.x9/32" THICK COMPOSITION WASHERS, MADE OF FABREEKA OR EQUAL, ON STUDS.

2. SET CAP ON STUDS, WITH 1/2" DIA. DRAIN HOLES AT SIDEWALK LEVEL.

3. HAND TIGHTEN STNLS. STL. NUTS UNTIL COMPOSITION WASHERS CONTACT UNDERSIDE OF CAP.

4. BOLT TRANSFORMER BASE TO CAP.

5. TIGHTEN STNLS. STL. 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.

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**INSTALLATION PROCEDURE**

**SECTION A-A**

**SCALE:** 3" = 1'-0"
BOX DRAWINGS
NOTES:
1. ONLY ONE STANCHION IN CENTER OF EACH BOX OF BOX FOR 24"x18" BOX.
2. CONDUITS TO BE FEED THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
3. CONCRETE BOX 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 HAND 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 VULCAN STRENGTH OF 4000 PSI IN 28 DAYS.
5. FRAME AND COVER SHALL BE HOT DIPPED GALVANIZED.
6. FOR SIZE AND NO. OF CONDUITS 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 HOLES.
14. MANUFACTURERS UNUSED KNOCKOUTS SHALL BE PLUGGED.
17. FRAME AND COVER SHALL BE EQUAL TO THOSE MANUFACTURED BY O.Z. ELECT MFG. CO. INC. SPRING CITY ELECT MFG CO., BONNELL ELECT MFG CO. OR COMPBELL FOUNDRY CO.
18. CONDUITS 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 NYC 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.

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

INSTALLING VANDAL RESISTANT CONCRETE BOX COVER

NEW YORK CITY

REVISION

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

OLD DRAWING NO. J-3179-B

DRAWING NO. BOX-002
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. ACCEPTANCES 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 SIZE AND NO. OF CONDUITS ENTERING BOX, SEE CONTRACT PLANS.
6. BOX, FRAME & COVER SHALL BE EQUAL TO THOSE MANUFACTURED BY J.U. ELECT. MFG. CO., OR O.Z. ELECT. MFG. CO., OR BONNELL ELECT. MFG. CO., OR SPRING CITY ELECT. MFG. CO. INC.
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 DESIGNED NEW YORK CITY KEY SYSTEM.
10. ALL HOLES SHALL BE DRILLED TO SUIT CONDUIT.
NOTES:
1. BOX SHALL BE FABRICATED FROM NO. 10 USS GAUGE 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 CUTOFF 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 MCCARD 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. FOR 24"x24" BOX, SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS CC-010_1, CC-010_2 AND CC-010_3 FOR METHOD OF INSTALLING A THREE-POINT LOCKING DEVICE IF REQUIRED.
7. BOX, FRAME AND COVER SHALL BE NEATLY FINISHED WITH UNIFORM THICKNESS THROUGHOUT.
8. ENTIRE ASSEMBLY SHALL BE NEMA 4.
9. AS AN ALTERNATE, RECESSED BOX IN WALL MAY BE ORDERED WITHOUT MOUNTING LUGS IF SO REQUIRED.

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* THREE HINGES
2 PIECE RECESSED ROADWAY FRAME & COVER, O.Z. ELECT. MFG. CO, BONNELL ELECT, MFG, CO, SPRING CITY ELECT, MFG, CO, OR EQUAL (DRILLING TO BE AS PER NYC DOT STREET LIGHTING STANDARD DRAWING BOX-001_1)

COVER: CAST STEEL (MED.)

FRAME: GRAY CAST IRON (MED.)

COMMON BRICK

P.C. MORTAR

REMOVE EXISTING BOX COVER

ROUGHEN EXISTING CONCRETE

EXIST, CONCRETE BOX WALL

FINAL GRADE

BITUMINOUS WATERPROOFING COMPOUND, DETAILS TO CONFORM TO NYC DOT STREET LIGHTING STANDARD DRAWING BOX-001_1

BREAK OFF EXISTING MARKER POST & REINFORCING RODS AT APPROX. THIS POINT

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 ALKA-LITE & RUST RESISTING COMPOUND, BONELL, CM-14 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 CONNECTED WITH EZ-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 OUT 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. THREAD CONNECTION OF CONDUIT TO CABINET SHALL BE PROVIDED, IN ADDITION TO G.B. 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 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

3/8" DIA. HOLES FOR MOUNTING BOX

3/4" EXTRA HEAVY STEEL HINGES, PHOSPHOROUS BRONZE PIN TO BE MADE NON-REMOVABLE.

SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS CC-010_1 AND CC-010_2 FOR DETAILS OF LOCKING DEVICE.

1 1/2"X5" BRASS NAME PLATE WITH RAISED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

1 1/2"X5"X18" GA. BRASS NAME PLATE WITH EMBOSSED LETTERS RIVETED TO DOOR & PAINTED AFTER INSTALLATION.

3/8" R.H. MACH SCREWS

1/8"X2" COPPER BEARING STEEL STRAP, WELDED TO RIGHT HAND DOOR

3/8"RJ-WACH SCREWS

1 1/4"X1 1/4"X1/4" G.I. ∠ RIVETED TO BOX

1/4" RIVETED TO BOX

REMOVABLE CENTER BAR

(2) 1 1/4"X1 1/4" GALV. STEEL ∠'S RIVETED TOGETHER

NOTES:

1. ALL WIRES IN BOX TO BE #12 N.J.G. WIRES UNLESS OTHERWISE NOTED.
2. ALL CONDUCTORS SHALL BE COPPER.
3. 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.
4. CABINET DIMENSIONS MAY VARY AS PER APPROVED MANUFACTURE.
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. THREADLESS CONNECTION OF CONDUIT TO CABINET SHALL BE PROVIDED. IN ADDITION TO GUL BUSHING AND LOCKNUT.
7. ALL CONDUCTORS EXCLUDING 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.

3/8" R.H. MACH. SCREWS
2"x1/8" COPPER BEARING STEEL STRAP, WELDED TO RIGHT HAND DOOR
2"x1/4" COPPER DRAWING STEEL STRAP WELDED TO REMOVABLE CENTER BAR
1 1/2" PIPE CAP

REMOVABLE CENTER BAR 2 - 1 1/4" ANGLE IRON, RIVETED TOGETHER
1 1/2" PIPE CAP

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

NEW YORK CITY
CONTROL CABINET - 6 RELAYS
SURFACE MOUNTING TYPE

REVISION

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

CONTROL CABINET - 6 RELAYS
SURFACE MOUNTING TYPE

H-3517
CC-002

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

SECTION A-A

TYPICAL LOCATION OF CONDUITS

PEDESTAL FOR 3 OR 6 RELAY CONTROL CABINET

NOTES:

1. CONCRETE SHALL BE 1:2:4 MIX.
2. 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.
3. For expansion bolt locations and details see NYC DOT street lighting standard drawing CC-012 or CC-013.
4. For 3-relay cabinet construction, dimensions, equipment, wiring diagram and notes see NYC DOT street lighting standard drawing CC-012.
5. For 6-relay cabinet construction, dimensions, equipment, wiring diagram and notes see NYC DOT street lighting standard drawing CC-013.
6. At flood zone areas, could be up to 4' or as approved plans.
7. Cabinet dimensions may vary as per approved manufacturer.

CONCRETE FOUNDATION

DETAIL OF TRIM ABOVE CABINET SHOWING THE LOCATION OF THE (3) 3/8" R.H. MACHINE SCREWS USED FOR ATTACHING DIP SHIELD

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

SECTION B-B

SECTION 4-8

TYPICAL LOCATION OF CONDUITS

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

REINFORCEMENT

6"x6" MESH NO.3xNO.3 WIRES

3/4" PIPE DRAIN

DRAIN PIPE SHALL NOT HAVE ANY 90° BENDS.

EXPANSION BOLT, SEE NOTE 3.

EXPANSION BOLT, SEE NOTE 3.

SEE NOTE 6

PROVIDE IN ADDITION TO SERVICE CONDUIT ONE SPARE EMPTY CONDUIT, SAME SIZE, EXTENDING TO NEAREST BOX IN DISTRIBUTION SYSTEM.

SEE NOTE 6

CONCRETE

RUBBED FINISH

CONCRETE FOUNDATION

CITY OF NEW YORK

CONTROL CABINET

CAB. M

CONTROL CABINET

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.

N.T.S.

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.

NOTE:

1. CONCRETE SHALL BE 1:2:4 MIX.
NOTES:

1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT
   SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH ALKALI & ACID RESISTING
   COMPOUND BONELL 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 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. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURE.

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

10. FOR DETAILS OF LOCKING DEVICE SEE NYC DOT STREET LIGHTING
    STANDARD DRAWINGS CC-010_1 AND CC-010_2

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, 2019-11-11

REVISION

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

CONTROL PEDESTAL CABINET, 6-RELAY
WITH AN ENTRANCE ON EACH SIDE
1 1/2" = 1'-0"

H-5078
CC-004_1

NOTES:

1. CONTROL CABINET SHALL BE HOT DIPPED GALVANIZED INSIDE & OUTSIDE. IT
   SHALL THEN RECEIVE AN ALUMINIZED FINISH WITH ALKALI & ACID RESISTING
   COMPOUND BONELL 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.

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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.

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   ADDITION TO G.B. BUSHING AND LOCKNUT.

7. ALL CONDUITS INCLUDING SPARES SHALL BE BONDED TOGETHER BY MEANS
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8. CABINET DIMENSION MAY VARY AS PER APPROVED MANUFACTURE.

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

10. FOR DETAILS OF LOCKING DEVICE SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS CC-010_1 AND CC-010_2

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, 2019-11-11

REVISION

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

CONTROL PEDESTAL CABINET, 6-RELAY
WITH AN ENTRANCE ON EACH SIDE
1 1/2" = 1'-0"

H-5078
CC-004_1
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. DRAIN PIPE SHALL NOT HAVE ANY 90° 3/4" DRAIN SEE DETAIL X

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.

7. CABINET DIMENSIONS MAY VARY AS PER APPROVED MANUFACTURER.
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.

1. CONCRETE SHALL BE 1:2:4 MIX.
2. FOR CONTROL CABINET DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWINGS 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. STOP WELD SHALL BE 1 1/4" x 1/8" x 1/8" x 1/8" HD. GALV. STEEL ANGLE EXTENDING 1" IN TO EACH SIDE OF CABINET, TAPPED WITH 1/4" x 1/2" HD. NICKLE SCREW WITH 1/4" CHAIN-PIN NUTS.
5. WHEN POOL 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:

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

REINFORCEMENT 6"x6" MESH NO.3xNO.3 WIRES

3/4" SPLAY FOR 6 RELAY CONTROL CABINET
3 1/4" SPLAY FOR 3 RELAY CONTROL CABINET
**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)

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**NOTES:**

1. CONTROL CABINET SHALL BE 30" X 24" X 12" 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 VARIETIES DEPEND 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.

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**ELECTRICAL EQUIPMENT TO BE FURNISHED AND INSTALLED:**

- 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.

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**REVISION**

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

NEW YORK CITY

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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15
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.

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 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 HRS WIRES SHALL CONFORM TO PLANS AND COULD BE OFF OF ANY PHASE. IF WIRES OF 24 HRS ARE LARGER THAN LOAD CIRCUITS WIRE, THEN 24 HRS 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.
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 SL-MIS-013.

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-001_1
   AND CC-001_2.

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
3/8" STANDARD ALLEN KEY (LONG ARM)

FURN. ONE (1) KEY WITH EACH CONTROL CABINET

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

USE YALE AND TOWNE LOCK #511 OR EQUAL AS TEMPLATE FOR DRILLING. PROVIDE SLIP FIT FOR PROJECTION OF KEY CHAMBER.

DRILL AND TAP FOR 6-32 MACHINE SCREWS, MONEL, OR EQUAL.

3/8" DIA. SHAFT (SLIP FIT)

SCALE: 6" = 1'-0"

SECTION B-B

FOR SURFACE TYPE CONTROL CABINET (NOT SHOWN IN DETAIL ON THIS DWG.)

SCALE: 6" = 1'-0"

USE 1/2" DIA. CONNECTING ROD DRILLED TO FRAME

DRILL 9/16" DIA. HOLES 1 1/2" x 1/2" ANGLE 2" LONG WELDED TO DOOR

3/4" DIA. CONNECTING ROD

3/4" DIA. HOLES

1/2" ANGLE 2" LONG WELDED TO DOOR

1 1/2" x 1/2" ANGLE 2" LONG WELDED TO FRAME

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

LOCKING DEVICE FOR CONTROL CABINET

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, 2019-11-16

DRAWING NO.
OLD DRAWING NO.
SCALE:
1/8"

REQUIRED PROJECT NO.

REVISED DATE BY

AS NOTED
J-3315
CC-010_1
ELEVATION

SECTION A-A
SEE DETAIL B

SECTION B-B
SEE DETAIL C

SECTION C-C
(CONNECTING RODS NOT SHOWN.
SEE DETAIL D)

NOTE: THIS DIMENSION BECOMES 1" FOR
CONTROL CABINET WITHOUT CENTER BAR

1/16" STAINLESS STEEL PIN 1/4" LONG (DRILL FOR DRIVE FIT)
FOR 3/8" STANDARD ALLEN KEY
OR EQUAL

7/8" STAINLESS STEEL
HANDLE RETAINER, FRICTION
SPRING WASHER AND FRICTION
SPRING ARE EQUAL TO SAME
PARTS, FURN. WITH YALE AND
TOWNE HANDLE NO. T-556

1 1/4" X 1 1/4" X 1/4" ANGLES
RIVETED TOGETHER, FOR FLUSH
AND SURFACE TYPE CONTROL CABINETS

3/16" STAINLESS STEEL
HANDLE RETAINER, FRICTION
SPRING WASHER AND FRICTION
SPRING ARE EQUAL TO SAME
PARTS, FURN. WITH YALE AND
TOWNE HANDLE NO. T-556

1/16" STAINLESS STEEL PIN 1/4" LONG (DRILL FOR DRIVE FIT)
FOR 3/8" STANDARD ALLEN KEY
OR EQUAL

3/8" - 24 MONEL OR EQUAL
HEX JAM NUT

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

LOCATION OF 1" HOLE FOR
CONTROL CABINET WITHOUT CENTER BAR

D R I L L 1 " H O L E I N D O O R

PROVIDE 1/32" SQUARE CLEAR HOLE IN CAM
FOR 5/16" SQUARE THREADED EXTENSION
SHOWN IN DETAIL B

3/32" DIAMETER STAINLESS STEEL PIN
3/4" LONG (DRILL FOR SLIP FIT)

STRAIGHT CAM, 3/16"
STAINLESS STEEL

HANDLE RETAINER, FRICTION
SPRING WASHER AND FRICTION
SPRING ARE EQUAL TO SAME
PARTS, FURN. WITH YALE AND
TOWNE HANDLE NO. T-556

3/8" STAINLESS STEEL, PIN 1/4"
LONG (DRILL FOR DRIVE FIT)
FOR 3/8" STANDARD ALLEN KEY
OR EQUAL

1/16" STAINLESS STEEL PIN 1/4" LONG (DRILL FOR DRIVE FIT)
FOR 3/8" STANDARD ALLEN KEY
OR EQUAL

3/8" STEEL SPLIT RING
LOCK WASHER

SCREW HEADS TO BE
MADE FLUSH WITH RODS

FLATTEN ENDS OF 3/4" DIAMETER
CONNECTING RODS AND DRILL
HOLDS TO FIT CAM SCREWS
BEND RODS AS REQUIRED

NOTE: THIS DIMENSION BECOMES 1" FOR
CONTROL CABINET WITHOUT CENTER BAR

3/16" STAINLESS STEEL
HANDLE RETAINER, FRICTION
SPRING WASHER AND FRICTION
SPRING ARE EQUAL TO SAME
PARTS, FURN. WITH YALE AND
TOWNE HANDLE NO. T-556

1/4" FLAT HEAD MACHINE
SCREW (MONEL OR EQUAL)
BEND RODS AS REQUIRED
ATTACHING RODS

1" HOLE IN DOOR

SEE DETAIL B

SEE DETAIL D

PLAN
DETAIL B
SEE DETAIL E

ELEVATION

SECTION D-D
SEE DETAIL D

DRAWING NO.

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

REVISION

NEW YORK CITY

NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-31
DETAIL OF ANGLES

WELDING OF ANGLES AND COVER ON CABINET DOORS

DETAIL OF COVER

NOTES:

1. ANGLES AND COVER SHALL BE H.D. GALV. STEEL.
2. AFTER WELDING ANGLES AND COVER ON DOORS, WELD AREAS SHALL BE PAINTED WITH ZINC RICH PAINT.
3. PADLOCK SHALL BE MASTER # A389 TO SUIT N.Y.C. # 9 KEY CHANGE # 47, OR APPROVED EQUAL.
4. THIS MODIFICATION APPLIES TO EXISTING CABINETS WITH INOPERATIVE LOCKS.
LOCKING DEVICE FOR CONTROL CABINET

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

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

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

NOTE:
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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

SCALE: N.1/2.

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

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DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

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DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.

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

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NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-15

SCALE: N.1/2.

DOOR - HOT DIPPED GALV. STEEL OR CAST IRON
WELD (ANGLE MAY ALSO BE FASTENED WITH 1/4"-20 FLAT HEAD SCREW)

WELD

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

DOOR ASSEMBLY
SECTION E-E
SCALE: 1/32" = 1'-0"

3/8"-16 NC - 2 x 1" L.G. ALLEN SOCKET HEAD CAP SCREW STAINLESS STEEL

EXPAND AFTER ASSEMBLY

CABINET DOOR WIDTH VARIES
CABINET DOOR ELEVATION

SEE DETAIL

CABINET EDGE

WIDTH VARY'S SET STI, DIVES.
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_1, CC-001_2, CC-002, CC-003, CC-004_1, CC-004_2, CC-005, CC-006 AND CC-013.
**NOTE:**
1. THIS INSTALLATION IS NOT STANDARD AND SHALL BE SUBMITTED TO CONTRACT PLANS AND STREET LIGHTING APPROVALS.

**DRAWING NO.**

**DESCRIPTION**

**BY**

**DATE**

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF STREET LIGHTING

34-02 QUEENS BLVD

L.I.C., N.Y. 11101

**NEW YORK CITY**

**FLUSH MOUNTED 3 RELAY CONTROL CABINET**

**NO**

**REVISION**

**SCALE**

**OLD DRAWING NO.**

**DRAWING NO.**

**AS NOTED**

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**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"
MISCELLANEOUS DRAWINGS
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 1/8" HOSES STC. BACK UP BOLT-BOLT TO SIMPLIFY SHAFT EXTENSION TO SLIDE ON USING SUFFICIENT RIGGING.
4. SLIDE SHAFT EXTENSION IN PLACE AND SLIDE DOWN TO TOP OF TEMPORARY CLAMP.
5. RELAX BACK CLAMP "D2" AND CROSS ARM TOGETHER WITH 1/8" HOSES STC. TO ORIGINAL POSITION.
6. REPLACE HALF CLAMP "D2" FACING SIGNAL AND TIGHTEN BOLTS SECURELY MAKING SURE SHAFT EXTENSION IS SQUEEZED TIGHT AGAINST TRAFFIC POLE.
7. REMOVE TEMPORARY CLAMP UNDER "D2" 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, CORTEN, 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 GALV. 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.
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.
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.
NOTES:
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.

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

TEMPORARY LIGHT SUPPORT
3/8" = 1'-0" J-5226 SL-MIS-005
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 WASHERS

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"

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, 2019-11-14
**NOTES:**

1. **ALL STEEL HARDWARE SHALL BE HOT DIPPED GALV.; EXCEPT AS NOTED.**
2. **CONTRACTOR INSTALLING FLOODLIGHTS SHALL FURNISH AND INSTALL THE NECESSARY FLOODLIGHT MOUNTING EQUIPMENT AT EACH LOCATION, EXCEPT AS NOTED.**
3. **DETAI A WITHOUT THE USE OF ELBOW AND NIPPLE(S) 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. **DETAI A WITHOUT THE USE OF ELBOW AND NIPPLE(S) COULD BE USED FOR MOUNTING OF A COBRAHEAD LUMINAIRE AT PEDESTRIAN SIDE OF POST. IF PLANS CALL FOR SUCH AND REFERENCE TO THIS DRAWING,**

**DETAIL A: ASSEMBLY VIEW OF MOUNTING FLOOD LIGHT ON OCTAGONAL STEEL POST**

**DETAIL B: ASSEMBLY VIEW OF MOUNTING FLOOD LIGHT ON WOOD POST**

**SECTION A-A**

**SECTION THOUGH 7.7" X 4.3" X 26.0" LONG OCTAGONAL STEEL SHAFT 120" FROM BOTTOM SHOWING BRACKET POLE PLATE**

**ALTERNATE METHOD OF BEND IN ARM (SEE ASSEMBLY VIEW FOR INFORMATION NOT SHOWN)**

**SCALE: 3" = 1'-0"**

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

**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**

**NEW YORK CITY**

**FLOOD LIGHT MOUNTING**

**ON WOOD OR FABRICATED STEEL POST**

**DRAWING NO. H-5022 SL-MIS-007**
VENTILATING BOSS 4.680" ACROSS CORNERS (TOP) 4.750" ACROSS CORNERS (BOTTOM) (INSIDE DIMENSIONS)

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 A303.
**DETAIL A: MOUNTING ON ALUMINUM LAMPOST**

**NOTE:** USE 1/2"-13 STAINLESS STEEL BOLTS AND LOCKWASHERS TO ATTACH NEW CAP.

- Use 1/2"-13 STAINLESS STEEL BOLTS AND LOCKWASHERS TO ATTACH NEW CAP.

**FOR PHOTOCELL**

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

**NOTE:** REMOVE TRAFFIC POST CAP WHERE EXISTING AND RETURN TO TRAFFIC DEPT. STOREYARD. USE CEMENTING 1/2"-13 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL AND LOCKWASHERS TO ATTACH NEW CAP.

**FOR PHOTOCELL OR FLOODLIGHT**

**NOTES:**

1. FOR MOUNTING PEC'S RECEPTACLE ON ALUMINUM LAMPOST, ITEM SHALL BE ALUMINUM WITH ROUND POLE CAP AND ALUMINUM PIPE (IF REQUIRED).

2. AT EACH LOCATION CONTRACTOR SHALL INSTALL EITHER A SINGLE FLOODLIGHT, OR A THROUGHLINE 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 HEAVYWALL TYPE WITH TWO LOCKNUTS, ALL HOT DIPPED GALV. 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 (SEE NOTE 1)

3/8" - 13 STAINLESS STEEL BOLTS & LOCKWASHERS TO ATTACH CAP. (FOR PHOTOCELL OR FLOODLIGHT)

1" PIPE PLUG CADMIUM PLATED STEEL

NOTE: REMOVE REGULAR POLE CAP WHERE EXISTING AND RETURN TO NYC DOT STREET LIGHTING STORAGE.

1/2" DIA. HOLE THROUGH CAP ON STEEL LAMPPOST.

STEEL SHAFT (SEE NOTE 1)

PREVIOUS DRAWING ISSUE 4

WHERE ADDITIONAL HEIGHT IS REQ'D

WHERE NO ADDITIONAL HEIGHT IS REQ'D

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

2" TO 1" HOT DIPPED GALV. STEEL REDUCER (SEE NOTE 1)

1/4" - 20 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL

2" HOT DIPPED GALV. STEEL CONDUIT (SEE NOTE 1)

HOT DIPPED GALV. STEEL LOCKNUT

2" HOT DIPPED GALV. STEEL LOCKNUT

POLE CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-008 (SEE NOTE 1)

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.

DRILL 1/2" DIA. HOLE THROUGH CAP ON SHAFT FOR 3/8" DIA. STAINLESS STEEL THROUGH BOLT WITH NUT & LOCKWASHER. DRILL SHAFT IN FIELD FOR THROUGH BOLT.

STEEL SHAFT (SEE NOTE 1)

WHERE ADDITIONAL HEIGHT IS REQ'D

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

NOTE: REMOVE REGULAR POLE CAP WHERE CUTTING AND RETURN TO NYC DOT STREET LIGHTING STOREYARD.

USE 1/2" - 13 STAINLESS STEEL BOLTS & LOCKNUTS TO ATTACH CAP.

( FOR PHOTOCELL OR FLOODLIGHT )

WHERE NO ADDITIONAL SHAFT IS REQ'D

2" TO 1" REDUCING BUSHING H.D. GALV. STEEL

1" STAINLESS STEEL EXTRA STRONG NIPPLE WITH CADMIUM PLATED STEEL LOCKNUTS.

1" STAINLESS STEEL EXTRA STRONG STEEL LOCKNUTS

1" STAINLESS STEEL EXTRA STRONG STEEL LOCKNUTS

1/4" - 20 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL

2" HOT DIPPED GALV. STEEL CONDUIT (SEE NOTE 1)

HOT DIPPED GALV. STEEL LOCKNUT

POLE CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-008 (SEE NOTE 1)

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.

DRILL 1/2" DIA. HOLE THROUGH CAP ON SHAFT FOR 3/8" DIA. STAINLESS STEEL THROUGH BOLT WITH NUT & LOCKWASHER. DRILL SHAFT IN FIELD FOR THROUGH BOLT.

STEEL SHAFT (SEE NOTE 1)

WHERE ADDITIONAL HEIGHT IS REQ'D

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

NOTE: REMOVE REGULAR POLE CAP WHERE CUTTING AND RETURN TO NYC DOT STREET LIGHTING STOREYARD.

USE 1/2" - 13 STAINLESS STEEL BOLTS & LOCKNUTS TO ATTACH CAP.

( FOR PHOTOCELL OR FLOODLIGHT )

WHERE NO ADDITIONAL SHAFT IS REQ'D

2" TO 1" REDUCING BUSHING H.D. GALV. STEEL

1" STAINLESS STEEL EXTRA STRONG NIPPLE WITH CADMIUM PLATED STEEL LOCKNUTS.

1" STAINLESS STEEL EXTRA STRONG STEEL LOCKNUTS

1/4" - 20 SQ. HD. CUP POINT SET SCREW, STAINLESS STEEL

2" HOT DIPPED GALV. STEEL CONDUIT (SEE NOTE 1)

HOT DIPPED GALV. STEEL LOCKNUT

POLE CAP AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-008 (SEE NOTE 1)

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.

DRILL 1/2" DIA. HOLE THROUGH CAP ON SHAFT FOR 3/8" DIA. STAINLESS STEEL THROUGH BOLT WITH NUT & LOCKWASHER. DRILL SHAFT IN FIELD FOR THROUGH BOLT.

STEEL SHAFT (SEE NOTE 1)

WHERE ADDITIONAL HEIGHT IS REQ'D

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

NOTE: REMOVE REGULAR POLE CAP WHERE CUTTING AND RETURN TO NYC DOT STREET LIGHTING STOREYARD.

USE 1/2" - 13 STAINLESS STEEL BOLTS & LOCKNUTS TO ATTACH CAP.

( FOR PHOTOCELL OR FLOODLIGHT )
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, 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, 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 RODS SHALL BE 100'x3/4" COPPERWELD JOSLYN MFG. CO. CAT. # J8348 OR EQUAL.

3. NUMBER AND SIZE OF WIRES AND CONDUITS SHALL BE AS PER CONTRACT PLANS.

4. AT 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. FOR EACH BOX, CONTRACTOR SHALL ADD SERIAL NUMBER OF USED MARKER IN AS-BUILT PLANS.
NOTES:

1. FOUNDATION TO BE POURED IN PLACE AFTER INSTALLATION OF GROUNDING ROD & 2" CONDUIT BENDS.
2. GROUNDING ROD SHALL BE 10x3/8" COPPERWELD JOSLYN MFG. CO. CAT # J8340 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.
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 ɸ, (1) CABLE G
   - FOR TWIN ARM LAMPPOST IT SHALL BE WITH (1) CABLE (N), (2) CABLE ɸ, (1) CABLE G

#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)

#6 COPPER CABLE (NEUTRAL)

#6 COPPER CABLE (PHASE)

K2C GROUNDING STUD

#6 BARE COPPER GROUNDING WIRE

BRONZE GROUNDING BUSHING

TIE

FOUNDATION

SERVICE CONDUIT

TRANSFORMER BASE

IN COMING SERVICE (DISTRIBUTION) CABLES

IN COMING SERVICE (DISTRIBUTION) CABLES
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 \( \Phi \), (1) CABLE G.
   - FOR TWIN ARM LAMPPOST IT SHALL BE WITH (1) CABLE (N), (2) CABLE \( \Phi \), (1) CABLE G.

NOTES:

- #12 BARE, TINNED, STRANDED COPPER CABLE
- #6 COPPER CABLE (PHASE)
- #6 COPPER CABLE (NEUTRAL)
- IN-LINE FUSE HOLDER BUSSMAN HEZ (OR APPROVED EQUAL) WITH 15 AMP FUSE BUSSMAN KTK-R (OR APPROVED EQUAL)
- SPlice - Gelport as per raychem, (or BUssmann HEZ with NNB or an APPROVED EQUAL)
- #12 CABLES
- TRANSFORMER BASE
- STREET LIGHTING SERVICE CONDUIT (EXTEND 18" FROM CURB LINE INTO STREET)
- INCOMING SERVICE WIRES FROM UTILITY
- IN COMING SERVICE WIRES FROM UTILITY
NOTES:
A. 120 VOLS A.C. 35 AMPERE SINGLE POLE NORMALLY CLOSED RELAY.
B. WATERPROOF INLINE FUSEHOLDER, ELASTIMOLD # 85U, BUSSMANN HEB WITH R-C-8 RECEPTACLE ON LINE SIDE, OR EQUAL, WITH 15 AMPERE FUSE.
C. WATERPROOF NON FUSED CONNECTOR, ELASTIMOLD CATALOG 20U, OR EQUAL, SOCKET SIDE SHALL BE CONNECTED TO LOAD SIDE SO THAT MALE CONTACT STAYS IN LINE SIDE ON DISCONNECT.

E-3980  SL-MIS-016
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

SERVICE
WEATHERHEAD CAP
TERMINAL BOARD
INSIDE COBRAHEAD LUMINAIRE

TERMINAL BOARD
INSIDE COBRAHEAD LUMINAIRE

WIRING DIAGRAM 1
FOR SINGLE ARM FEED

WIRING DIAGRAM 2
FOR TWIN ARM FEED

3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)
3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)

TERMINAL BOARD
INSIDE COBRAHEAD LUMINAIRE

FROM UTILITY
3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)
3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)

K2C GROUND LUG
STANDARD - SPLICE (OR BUSSMAN HEZ
INLINE FUSE HOLDER WITH NNB-R OR
APPROVED EQUAL) WITH 15 AMP
KTK-R (OR APPROVED EQUAL)
BLACK
RED
WHITE
LUMINAIRE

PEC RECEPTACLE
IN LUMINAIRE
(ONLY MAIN 3 RECEPTACLE
LEADS ARE SHOWN; 3 OR 7 PIN RECEPTACLE)
3 #12 FOR ADJACENT
90° ARM AND LUMINAIRE

FROM UTILITY
3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)
3 #12 AWG
TO LUMINAIRE
(3 OR 7 PIN RECEPTACLE)

K2C GROUND LUG
STANDARD - SPLICE (OR BUSSMAN HEZ
INLINE FUSE HOLDER WITH NNB-R OR
APPROVED EQUAL) WITH 15 AMP
KTK-R (OR APPROVED EQUAL)
BLACK
RED
WHITE
LINE
AUX
NEUT
G
Ø
N
EXISTING SERVICE FROM UTILITY CO.
(PHASE AND NEUTRAL WIRES)

STREET LIGHTING BRACKET AND LUMINARE

3 # 12 (SEE NOTE NO. 2)

WEATHER HEAD

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

CLAMP ATTACHED WITH LAG SCREWS

CURB

UTILITY WOOD POLE

18" MIN.

UNDERGROUND INSTALLATION TO WOOD POLE

1 1/2" STEEL CONDUIT (H.D.G.) TO REQUIRED LOAD

TERMINAL BOARD IN LUMINARE

3'-0" WHITE

BLACK

RED

LINE

AUX

NEUT

ɸ

N

G

CONTROL FEED

3#12 FROM UTILITY CO.

3#12 AWG TO LUMINARE

3 #12 IN LUMINARE

ONLY 3 MAIN RECEPTACLE LEADS ARE SHOWN: 3 OR 7 PIN RECEPTACLE

PEC RECEPTACLE IN LUMINARE

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

FUSE HOLDER

K2C GROUNDING LUG

4 LEG TERMINAL BLOCK IN LUMINARE

3#12 AWG TO LUMINARE

FROM UTILITY CO.

#6 AWG

WHITE

BLACK

RED

LINE

AUX

NEUT

ɸ

N

G

TO ADJACENT SERVICE WITH 24HRS FEED (10 AMP MAX LOAD)

STANDARD SPLICE KIT, GELPORT SPLICE, OR AN APPROVED EQUAL

REPLACE EXISTING FUSE HOLDER WITH 2 INLINE FUSE HOLDER NON FUSED BUSSMAN HZ (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)

K2C GROUND LUG

Ø

N

G

TO ADJACENT SERVICE WITH 24HRS FEED (10 AMP MAX LOAD)

STANDARD SPLICE KIT, GELPORT SPLICE, OR AN APPROVED EQUAL

REPLACE EXISTING FUSE HOLDER WITH 2 INLINE FUSE HOLDER NON FUSED BUSSMAN HZ (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)

K2C GROUND LUG

NOTE:

1. CONTRACTOR SHALL MAKE ALL CONNECTIONS OF WIRES TO TERMINAL BOARD IN LUMINARE 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,

WIRING DIAGRAM

(TO OTHER STREET LIGHTING LOAD [10 AMP MAX])

THROUGH WEATHERHEAD, OR DIRECTLY TO LUMINARE ON ADJACENT 90° ARM

1. CONTRACTOR SHALL MAKE ALL CONNECTIONS OF WIRES TO TERMINAL BOARD IN LUMINARE 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,
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

GROUNDING STUD SIZE 5/16"x18

(2) #6 CABLES BY OTHERS

PEC

CONDUIT OFFSET LOCKNUTS AND BUSHINGS

GROUNDSING BUSHING

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

GROUNDING STUD SIZE 5/16"x18

FUSE BOX WIRING DETAIL

(2) #12 WIRES TO LAMP

(1) #12 GROUND

FUSE BOX

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

BUSSMAN K7X-R (OR APPROVED EQUAL)

GROUNDSING STUD SIZE 5/16"x18

GROUNDSING BUSHING

(2) #6 CABLES BY OTHERS

NOTES:

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

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

STREET LIGHTING BRACKET ARM ON WALL (OR STRUCTURE)

REVISION

DEPARTMENT OF TRANSPORTATION

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

STREET LIGHTING BRACKET ARM ON WALL (OR STRUCTURE)

OLD DRAWING NO.

DRAWING NO.

SL-MIS-019

DESCRIPTION

D-2529

SL-MIS-019

NOTES:

1. WIRING AS PER NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-017 DIAGRAM 2.
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.
APPROX. 15' OR AS CALLED FOR PER PLANS

LOCKING DEVICE

SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-010_4

GRADE

SERVICE SIDE CONDUIT TO JUNCTION BOXES SEE DETAIL A

LOCKING DEVICE

SEE NYC DOT STREET LIGHTING STANDARD DRAWING CC-010_4

GRADE

SERVICE SIDE CONDUIT TO JUNCTION BOXES SEE DETAIL A

SERVICE SIDE CONDUIT CAPTURED FOR BEYOND CURB LINE & CAP BELOW GRADE FOR PICKUP BY UTILITY CO.

INSULATING COUPLING

SERVICE CONDUIT SHALL NOT CONTACT STEEL OF COLUMN.

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

LOAD SIDE CONDUIT

CONTROL CABINET

6" KINDORF B-902 CHANNEL

5/8" ROD & TWO SQ. NUTS

1/2" BOLT & TWO SQ. NUTS WITH FLAT WASHER AND LOCK WASHER

CONTROL CABINET OR FUSE BOX MOUNTING DETAIL

SERVICE SIDE CONDUIT, CONDUIT & WIRING DETAILS SHALL CONFORM TO CONTRACT PLANS.

CAST IRON OR STEEL JUNCTION BOX

SERVICE SIDE CONDUIT

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

CONTROL CABINET

COLUMN

GRADE

SECTION A-A

CONTROL CABINET OR FUSE BOX MOUNTING DETAIL

NEW YORK CITY

SCALE

OLD DRAWING NO.

DRAWING NO.

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

INSTALLING CONTROL CABINET OR FUSE BOX ON COLUMNS ELEVATED STRUCTURE

REVISION

NO

DATE

BY

DESCRIPTION

NEW YORK CITY:

H-5198

SL-MIS-021

NYCDOT STREET LIGHTING STANDARD DRAWINGS 2019-11-10
1. CENTER POINT FOR DRILLING 2" DIA. HOLE IN SHAFT TO BE DONE BY CONTRACTOR INSTALLING ARM. ARM SHALL BE FURNISHED AND INSTALL GROMMET.
2. CONTRACTOR INSTALLING ARM SHALL ALSO DRILL TWO CLEAR HOLES IN SHAFT ALIGNED WITH LOCATING PIN.
3. LED COBRAHEAD 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.
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

STEEL

PLATE

1/4"

1 1/4" DIA.

1/4"

45°

19/32"

STD. POLE PL.

CONT. WELD EA. SIDE

SECTIONS XX (SHOWN ON SHAFT WITH U-BOLTS IN PLACE)

X

X

9"

1/2"

1 1/2"

1"

7 5/8"

6 1/2"

1 1/8"

1 1/8"

2 1/2"

4 1/4"

1 5/8"

4 1/2"

9 5/8"

ROUND CORNS. (TYP.)

7/8" x 7/16" SLOTTED HOLES 4 REQ'D.

LOCATING PIN WELDED ALL AROUND

C

L

POLE PLATE

IDENTIFICATION (XX REPRESENTS MANUFACTURE YEAR)

DETAIL OF "U" BOLT

2 REQ'D WITH EACH ADAPTER, WITH 4 HEX NUTS EACH BOLT

NOTES:
1. FOR POLE PLATE DETAILS SEE NYC DOT STREET LIGHTING STANDARD DRAWING ARM-001.
2. CENTER POINT FOR DRILLING 2" DIA. 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" DIA. X 1" LONG STEEL LOCATING PINS IN ADAPTER PLATE, SHELL TWO CLEAN HOLES IN SHAFT ALIGN WITH LOCATING PINS.

NEW YORK CITY

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

ADAPTER FOR MOUNTING 90° ARM ON EXISTING H-5026 EXTENSION ON M-2 POST

6" = 1'-0"

J-5039-A
SL-MIS-023

REVISION

NO DATE BY DESCRIPTION

OLD DRAWING NO. DRAWING NO.

SCALE

49
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 3-UNIT CINCH-ANCHORS FOR 3/8" DIA. BOLTS. CONTRACTOR INSTALLING ARM SHALL PROVIDE CINCH-ANCHORS, BOLTS AND LOCKWASHERS.

5. WELD TWO 1/2" DIAM. BY 1" LONG STEEL LOCATING PINS IN ADAPTER PLATE, DRILL TWO CLEAR HOLES IN SHAFT ALIGNED WITH LOCATING PINS.
1. For pole plate details see NYC Dot Street Lighting Standard Drawing ARM-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" bolts & hex nuts to be HD galv.

4. After tightening nuts 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:**

- 1/2" STL. SPRING 1/2" WIDE x 1/32" THK.
- 3/16" DIA. HOLE IN 1/4" 3/16" x 13/16" SLOT IN SPRING
- CAP DETAIL A 1/2" DIA. U-BOLT 3" LG. THREAD 2 HEX NUTS & WASHER
- 2 - REQ'D PER ASSEMBLY
- 5/16" 45° POLE PLATE CONTINUOUS WELD EACH SIDE
- 6 1/2" 10.5 1 5/8" 19/32" 19/32" 5/16" 45°
- 2 7/8" R 2 7/8" R
- LAMPPOST 1/2" DIA. U-BOLT 3" LG. THREAD 2 HEX NUTS & WASHER
- 2 - REQ'D PER ASSEMBLY
- 5" 3/4" R 2" DIA. HOLE IN SHAFT
- 5/8" DIA. HOLE IN SHAFT FOR 1/2" DIA. PIN
- 1" 1/2" DIA. x 1 1/2" LG. PIN WELDED TO CHANNEL
- 6   10.5 1 1/4" 3 1/2"
- 1/2" DIA. PIN WELDED TO CHANNEL AND 5/8" DIA. HOLE IN SHAFT
- 9/16" x 13/16" SLOT HOLES (TYP.)
- CAP DETAIL A (COMPLETE ASSEMBLY SHOWN)
- 40° 120° 2 29/32" R
- 2" 5/16" x 1 5/16" SLOT WELD
NOTES:

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

2. AT CENTER POINT FOR DRILL 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.

8. 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.

9. OPTIONS: 1/2" DIA. BOLT x 1 3/4" LG. WITH HEX. NUT ST. STL. & SPRING WASHER WHERE SPACE BETWEEN SHAFT & CAP EXCEEDS 1/16" PROVIDE SPACER.
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

<table>
<thead>
<tr>
<th>TYPE</th>
<th>20'-0&quot;</th>
<th>22'-3&quot;</th>
<th>25'-0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>7'-7 1/4&quot; TO 9'-1 15/16&quot;</td>
<td>9'-10 1/4&quot; TO 11'-4 15/16&quot;</td>
<td>12'-1 5/16&quot; TO 13'-8 15/16&quot;</td>
</tr>
<tr>
<td>Type B</td>
<td>9'-2&quot; TO 13'-3 15/16&quot;</td>
<td>11'-5&quot; TO 15'-6 15/16&quot;</td>
<td>13'-9&quot; TO 18'-1 7/16&quot;</td>
</tr>
<tr>
<td>Type C</td>
<td>13'-4&quot; TO 20'-0&quot;</td>
<td>15'-7&quot; TO 22'-3&quot;</td>
<td>18'-1 1/2&quot; TO 25'-0&quot;</td>
</tr>
</tbody>
</table>

NOTE: INSIDE DIAMETER SHALL VARY AS FOLLOWS:
- Type "A" - 7" Inside Dia.
- Type "B" - 6" Inside Dia.
- Type "C" - 5" Inside Dia.

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

RED (LOAD)
BLACK (LINE)
WHITE (NEUTRAL)
RED (LOAD)

FIBER GASKET
WHITE
BLACK
ALUMINUM CAP

POLE CAP ASSEMBLY
SCALE: 3/8" = 1'-0"
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
3/4" RIGHT ANGLE CONDUIT
P.E.C. & ADAPTER TO CONTROL RELAYS IN CONTROL CABINET

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.

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

PHOTOCCELL PLACEMENT FOR CONTROL CABINET

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

REVISION

PHOTOCCELL PLACEMENT FOR CONTROL CABINET

DETAIL D FOR NEW INSTALLATION
P.E.C.'S TO CONTROL RELAYS IN CONTROL CABINET

DETAIL C FOR NEW INSTALLATIONS
P.E.C.'S OF SURFACE MOUNT CONTROL CABINET IN HIGH PIER OVERPASS

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

DETAIL A (FOR REFERENCE ONLY)
1 1/2" CONDUIT 7 #12
CHASE CONCRETE TO FIT CONDUIT BENEATH CONTROL CABINET
PEDESTAL WITH CONTROL CABINET

SEE CONTRACT DRAWINGS FOR DISTANCE BET. LAMPPOST & PEDESTAL

P.E.C. TO CONTROL RELAYS IN CONTROL CABINET

25FT STEEL OR ALUMINUM LAMPPOST SHAFT

SEE CONTRACT DRAWINGS FOR DISTANCE BET. LAMPPOST & PEDESTAL
1. PROVIDE ONE ALLEN WRENCH FOR DOOR SCREW WITH EACH 100 DOORS ON ORDER.
NOTES:

1. ANCHOR BOLT IS TO BE HOT DIPPED GALVANIZED AT THREADED 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.
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-021
HDG 20' FABRICATED STEEL SHAFT AS PER NYC DOT STREET LIGHTING STANDARD DRAWING LP-001

COVER LENGTHS:

<table>
<thead>
<tr>
<th>TYPE LAMPPOST</th>
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<th>&quot;B&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;D&quot;</th>
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<tr>
<td>HDG 20' FABRICATED STEEL SHAFT</td>
<td>3 1/2'</td>
<td>6 1/2'</td>
<td>5 1/2'</td>
<td>3'</td>
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<td>AS PER NYC DOT STREET LIGHTING</td>
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<tr>
<td>HDG TYPE &quot;WF&quot; FABRICATED STEEL</td>
<td>3 1/2'</td>
<td>6 1/2'</td>
<td>6 1/2'</td>
<td>3'</td>
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<td>HDG 20' FABRICATED STEEL SHAFT</td>
<td>4 1/2'</td>
<td>7'</td>
<td>8'</td>
<td>6 1/2'</td>
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COVER, #11 GA.

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

1/4" - 20 x 2 1/2" LS. TO BE PEENED OVER AT END

POLE, 1" x 5/16", WITH 1/4" - 20 S. & T.

FRAME, BUTT WELD

CONTINUOUS WELD

BAR SHOWN IN UNLOCKED POSITION

1 - 5/8" STAINLESS STEEL SPANNER TYPE ROUND HEAD MACHINE SCREW 1/4" - 20 x 2 1/2" LS. TO BE PEENED OVER AT END
TYPICAL INSTALLATION FOR HIGH VOLTAGE DUCT LINE

CONTRACTOR SHALL AVOID EXISTING DRAINAGE PIPES

LOW VOLTAGE CONDUIT AND CABLE

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

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

SECTION THROUGH DUCTS & ENVELOPE

GRADE

3" ± (MIN.)

3" ± (MIN.)

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

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

DRAWING NO.
D-5050
REVISION
SL-MIS-034

TYPICAL INSTALLATION FOR HIGH VOLTAGE DUCT LINE
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 LAMPPOST, 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" STUD BOLT, FULLY THREADED
WASHER
LOCK WASHER
1" MALLEABLE IRON BOLT COUPLING, FULLY THREADED

ASSEMBLY B
(4 REQUIRED PER POLE)
FOR TYPE B POLES (SEE NYC DOT STREET LIGHTING STANDARD DRAWING FDN-004)
FOR TYPE FMP POLE (SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-018)

3/4" STUD BOLT, FULLY THREADED
WASHER
LOCK WASHER
3/4" MALLEABLE IRON BOLT COUPLING, FULLY THREADED

NOTE:
1. HEX BOLT COUPLINGS SHALL BE GREASED OR ANTI-SIEZE COMPOUNDED.
1. Hex bolt couplings shall be greased or anti-sieze compounded.
GALLERY DRAWINGS
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<td>CITY LIGHT LAMPPOST</td>
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BISHOP CROOK LAMPPOST
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LP-026_1

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

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

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

NEW YORK CITY
NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
LAMPPOST - LUMINAIRE GALLERY
PIC-004
WF LAMPPOST
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LP-024

2085 LUMINAIRE (SPEC 465)
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LUM-004

KING LUMINAIRE (SPEC 465)
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LUM-006

FMP LAMPOST
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LP-026

FMP LUMINAIRE (SPEC 474)
SEE NYC DOT STREET LIGHTING
STANDARD DRAWING LUM-016

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
LAMPPOST - LUMINAIRE GALLERY
PIC-008
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 inhibiting 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" 18 BRONZE SQUARE HEAD NUT AND WELD TO POLE SHAFT

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

5/16" 18 BRONZE NUT AS NEEDED

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

DRILL AND TAP POLE SHAFT FOR 5/16" 18 GROUNDING STUD, ACCESSIBLE FROM HAND HOLE

3X25/16 UNC THREAD COUNTERBORE HOLES @ 120° DECALATION

COUNTERBORE HOLES FOR M12 STAINLESS STEEL HEX-SOCKET CUP SCREW

MANUFACTURER TO PROVIDE GROUND STUD, BURNDY TYPE K2C OR EQUAL OPPOSITE HANDHOLE

NOTES:

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 XL2K 300/201 LOW VOC ACRYLIC MODIFIED ALKYD 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.
ALUMINUM PIPE
O.D. 4 1/2" x 4"

4 1/2" DIA.

3 1/16"

5 3/8"

NOTES:

MATERIAL:
CAST DUCTILE IRON

HARDWARE:
STAINLESS STEEL

FINISH:
2 COATS OF ELECTROSTATICALLY
APPLIED THERMOSET POLYESTER
POWDER-COAT WITH AL4 FOUR PART
CORROSION INHABITING PROCESS

COLOR:
PPG ALK 300/201 LOW VOC ACRYLIC
MODIFIED ALKYD ENAMEL - LG,
BLACK, PPG COLOR PC 828,
OR AS SPECIFIED BY NYC DOT
STREET LIGHTING ENGINEERING

WARNING!
NO WELDING DROPS INSIDE THE COUNTERBORE HOLES

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

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

TYPE P - TRAFFIC SIGNAL
AS NOTED
5316(2)
REF-002_3
LUMINAIRE CASTING

SCALE: 3" = 1'-0"

1. FOR BASE PLATE DETAIL, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-031_3.
2. FOR ANCHOR BOLT AND CARRIAGE BOLT ASSEMBLIES, SEE TYPE 8S DETAILS ON NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-036_2.
3. FOR LOCKING DEVICE, GROUND STUD NUT RETAINER, HINGE AND TRANSFORMER, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-032.

NOTE:

1. FOR BASE PLATE DETAIL, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-031_3.
2. FOR ANCHOR BOLT AND CARRIAGE BOLT ASSEMBLIES, SEE TYPE 8S DETAILS ON NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-036_2.
3. FOR LOCKING DEVICE, GROUND STUD NUT RETAINER, HINGE AND TRANSFORMER, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-032.

NOTE:

1. FOR BASE PLATE DETAIL, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-031_3.
2. FOR ANCHOR BOLT AND CARRIAGE BOLT ASSEMBLIES, SEE TYPE 8S DETAILS ON NYC DOT STREET LIGHTING STANDARD DRAWING SL-MIS-036_2.
3. FOR LOCKING DEVICE, GROUND STUD NUT RETAINER, HINGE AND TRANSFORMER, SEE NYC DOT STREET LIGHTING STANDARD DRAWING LP-032.
**SECTION A-A**

8 SHARP FLUTE

7 GAUGE

N.T.S.

(2) ACCESS DOOR

7 1/2"

4'-3 5/8"

14 1/8"

31"

8'-0"

25'-5"

28'-6 27/32"

45 1/2"

**BASE COLLAR**

TAPERED, 8 SHARP FLUTE STEEL POLE

**MAST ARM BRACKET**

**GRAND CENTRAL PARTNERSHIP LUMINAIRE**

**SECTION C-C**

**SECTION D-D**

**BASE DETAIL**

**SECTION B-B**

**CAP DETAIL**

**ELEVATION**

**TAPERED, 8 SHARP FLUTE STEEL POLE**

**BASE COLLAR**

**(2) ACCESS DOOR**

**BASE**

**STREET SIGN BRACKET**

**MAST ARM (2)**

**SECTION A-A**

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

**GRAND CENTRAL LMPPOST**

**DEPARTMENT OF TRANSPORTATION**

**DIVISION OF STREET LIGHTING**

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

**NEW YORK CITY**

**REVISION**

**NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30**

**H-5287**

**REF-004_1**

**THIS DRAWING IS FOR REFERENCE ONLY.**
UPPER MAST ARM BRACKET
SCALE 1" = 1'-0"

LOWER MAST ARM BRACKET
SCALE 1" = 1'-0"

STREET SIGN BRACKET
SCALE 1" = 1'-0"

OPTICAL:
TEARDROP LED MODULE WITH DIFFERENT REFRACTORS 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 ARMORTHANE OR EQUAL.
4. POLE SHALL BE EQUIPPED WITH STRAIN RELIEF
DEVICE FOR WIRING HEAD POLE CAP.
**Notes:**

1. Spun Aluminum Housing, 18" Dia., 0.062" Min. Gauge
2. Lamp, 150 Watt 100 Volts (L.P.)
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. 1/4", 16 Set Screws
12. Aluminum Reflector
13. Reflection - 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

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 SIDE WALL OF BASE ODDEZ AS 1/16" - 1/8 GROUND STUD (STUD BY OTHERS)

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

**PROJECTION:**
TENON:
2 7/8" DIA. X 3" HIGH (TO ACCEPT FINIAL)

**SPRING CITY**

**CATALOG NO.:**

**PAINT SPECIFICATIONS (INTERIOR AND EXTERIOR):**

**PRIME COAT:**
ONE COAT 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 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)

PROVISIONS:
CENTRAL VENT HOLE 5" REQUIRED

SECTION B-B

THREE-15 X 1" LONG S.S. HEADLESS ALLEN SOCKET SET SCREWS (2 AT 50"

STOP RING INTEGRALLY CAST WITH BASE

TAP FOR 1/4-20 SCREW

TAP FOR 5/16-18 GROUND STUD

5/16-18 TAP

SECTION A-A

8" DIA. CLEAR OPENING

11/16" DIA. BOLT CIRCLE

TOP LINE OF DOOR

BOTTOM LINE OF DOOR

3/8"-16 X 1" S.S. HEADLESS ALLEN SOCKET SET SCREWS (2 AT 50"

8 1/2" DIA.

3/4" DIA.

16 1/2" DIA.

O F H A N D H O L E

HAND HOLE - 2 @ 180°

(OVERTURE 3 1/2" HIGH X 6" X 5" WIDE)

SEE DETAIL B

SECTION A-A

SCALE: 1" = 1'0"

SECTION B-B

SCALE: 1" = 1'0"

SEE DETAIL B

ELEVATION

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

10'-0" MIN FROM GRADE TO CENTER OF BRACKET

4'-2 5/8"

3'-8 1/2"

7'-7"

SEE DETAIL B

HAND HOLE - 2 @ 180°

(OVERTURE 3 1/2" HIGH X 6" X 5" WIDE)

SEE "SECTION A-A" FOR LOCATION OF HAND HOLE, ACCESS DOOR AND N.Y.C. IDENTIFICATION LABEL

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

NO DESCRIPTION

SE C NO.

LP-20697

REF-006_2

THIS DRAWING IS FOR REFERENCE ONLY.

REVISION

DON'T DRAW THIS DRAWING.

NO.

LP-20697

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TECHNICAL SERVICES DATA CENTER DOCUMENT MANAGEMENT SYSTEM
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

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 DETAIL

ORNAMENTAL BASE: LOCATED IN BASE TO COINCIDE WITH ACCESS DOOR IN PEDESTAL BASE

PEDESTAL BASE: LOCATED IN MID SECTION

GROUND STUD: 1/2" DIA. VENT HOLES (4 AT 90 DEGREES FROM ACCESS DOOR, SEE "TOP VIEW OF BASE PLATE")

ANCHOR BOLTS: ANCHOR BOLTS SUPPLIED BY OTHERS

SPRING CITY: (2) 5/8" DIA. LOW ALLOY - HIGH STRENGTH STEEL TIE RODS (80 K - 120 K TENSILE STRENGTH, 36000 MINIMUM YIELD) THE TIE RODS SHALL BE FULLY GALVANIZED WITH STAINLESS STEEL NUTS AND WASHERS

SOLDERLESS CONNECTOR: 410-34 X 3/8" LONG B./H. MACHINE SCREW

FINIAL DETAIL

SIGNAL BY OTHERS (N.T.S.)

6" STEEL ROPE CABLE, ONE END SECURED TO BACK OF DOOR AND THE OTHER END SECURED TO INSIDE WALL OF BASE.

4" STEEL PIPE VENT HOLE (4 AT 90"

4" SCH. 40 BLK. STL. PIPE (3 1/2" O.D.)

1/4"-20 X 3/4" LONG PLATED HEADLESS ALLEN SOCKET SET SCREWS (3 AT 120"

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.

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

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

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 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.

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

THIS DRAWING IS FOR REFERENCE ONLY.

REVISION

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

EASTERN PARKWAY 28'-3" STEEL POST WITH CAST SIGNAL MOUNTING BRACKETS AND EASTERN PARKWAY 15'-0" TRAFFIC ARM

SCALE: OLD DRAWING NO. DRAWING NO.

REVISION

OLD DRAWING NO. DRAWING NO.

AS NOTED LP-27609 REF-006_5

REV-006_5

NO DATE BY DESCRIPTION

LP-27609
TRAFFIC ARM SPECIFICATIONS

**STYLE:** EASTERN PARKWAY

**HEIGHT:** 4'-0"

**WIDTH:** 20'-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

**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.
TRAFFIC ARM SPECIFICATIONS

**STYLE:** EASTERN PARKWAY
**HEIGHT:** 4'-0"
**WIDTH:** 9'-0" FROM END OF POST TO END 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:** 30'-0"
**BASE:** 28" DIAMETER
**MATERIAL IN 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 FOR 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 FINIAL)

CATALOG NO.: SPW-EPWNYC-CU-(TYPE HR-1 LP-27611)

**PAINT SPECIFICATIONS**

**INTERIOR SURFACES:** PRIME PAINTED WITH TWO COATS OF ALKYD OXIDE PRIMER (TWO DIFFERENT COLORS) SHERWIN WILLIAMS KEMKROM METAL PRIMER (SINGLE COMPONENT) BUFF, BRUSH, BROWN, BRICK

**EXTERIOR SURFACES**

**PRIME COAT:** PRIME PAINTED WITH ONE COAT OF ZINC-RICH PRIMER, SHERWIN WILLIAMS ZINC CLAD #1 BISMARK (SINGLE COMPONENT)

**INTERMEDIATE COAT:** ONE COAT INTERMEDIATE EPOXY-POLYAMIDE PRIMER, SHERWIN WILLIAMS ALL WEATHER EPOXY PRIMER (ULTRA DEEP GREEN) BROWN (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.
M2 SHAFT EXTENSION
(AVENUE OF THE AMERICAS POST)

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.
LUMINAIRÉ 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 III, ASYMMETRIC

CROSS ARM SPECIFICATIONS:

**STYLE:**
HERITAGE PEDESTRIAN ARM

**HEIGHT:**
1'-2 3/4"

**WIDTH:**
6'-0" FROM TOP OF LUMINAIRE TO BOTTOM 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" TO LIGHT CENTER

**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)

RÉVISION

ADPATION DE TRANSPORTATION DIVISION DE MONUMENTS ET ÉclairAGE 34-02 QUEENS BLVD L.I.C., N.Y. 11101

NYC DOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
SHAFT EXTENSION SPECIFICATIONS:

**STYLE:** HERITAGE M2 CONVERSION

**HEIGHT:** 12'-6 1/2"

**MATERIAL:** OCTAGONAL STEEL MONOTUBE CONSTRUCTION

**FINISH:** HOT DIP GALVANIZE TO A.S.T.M. A123 THEN PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACRYLON - EDWARDIAN GREEN (SW #: 1203)

**TENON:** 4" DIA. X 3" HIGH (TO ACCEPT FINIAL)

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 ACRYLON - EDWARDIAN GREEN (SW #: 1203)

**LAMPING:** 250 WATT METAL HALIDE (LAMP BY OTHERS)

**VOLTAGE:** 120 VOLT

**SOCKET:** MOGUL BASE

**DISTRIBUTION:** TYPE III, ASYMMETRIC

CROSS ARM SPECIFICATIONS:

**STYLE:** HERITAGE ROADWAY ARM

**HEIGHT:** 4'-9 3/4"

**WIDTH:** 8'-0" FROM TOP OF POST TO TOP OF LUMINAIRE

**MATERIAL:** 2 1/2" SCH. 40 (2 7/8" O.D.) STEEL PIPE AND 1" SCH. 40 (1.315" O.D.) STEEL PIPE HOT DIP GALVANIZE TO A.S.T.M. A123 THEN PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS ACRYLON - EDWARDIAN GREEN (SW #: 1203)

**TENON:** 2" N.P.S. PIPE NIPPLE (TO ACCEPT LUMINAIRE)

BASE SPECIFICATIONS:

**STYLE:** HERITAGE (TYPE A) WRAP BASE

**HEIGHT:** 5'-1"

**BASE:** 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 ACRYLON - EDWARDIAN GREEN (SW#: 1203)

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

NOTE: 7/16" DIA. CLEARANCE HOLE TO BE DRILLED BY CONTRACTOR IN THE FIELD, (1/8" IPS ALL THREADED PIPE NIPPLE SUPPLIED BY SPRING CITY)
LUMINAIRE SPECIFICATIONS:

STYLE: HERITAGE ROADWAY LUMINAIRE
HEIGHT: 26 7/8"
WIDTH: 18 1/8" DIAMETER
MATERIAL: CAST AND SPIN ALUMINUM
FINISH: PRIME PAINT THEN FINISH PAINT, SHERWIN WILLIAMS
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

REVISION

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

THE HERITAGE ROADWAY
LUMINAIRE WITH ROADWAY CROSS ARM ADAPTOR

THIS DRAWING IS FOR REFERENCE ONLY.

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

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-10-30
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 SCREW SECURITY MACHINE SCREWS

SECTION A-A
NOTE: PANEL NOT GALVANIZED

SECTION B-B
THE TYPE A HERITAGE WRAP BASE
AS NOTED BS-25099 REF-008_7

THIS DRAWING IS FOR REFERENCE ONLY.
**BASE SPECIFICATIONS:**

- **STYLE:** HERITAGE (TYPE B) WRAP BASE
- **HEIGHT:** 4’
- **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 #: 1206)
- **ACCESS DOOR:** LOCATED IN BASE SECURED WITH TAMPER PROOF HEX SOCKET SECURITY MACHINE SCREWS

**FRONT ELEVATION**

- SCALE: 3/4” = 1'-0"

**ACCESS DOOR DETAIL**

- SCALE: 3/4” = 1'-0"

**CROSS SECTION**

- SCALE: 3/4” = 1'-0"

**SECTION A-A**

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

**SECTION B-B**

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

**NOTE:** PANELS MUST BE REMOVED TO ACCESS WRAP BASE HARDWARE.

**NEW YORK CITY**

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

**SCALE:** 1/16" = 1'-0"

**DESIGN MILL:**

- BS-25100

**REFERENCE NO.:**

- REF-008_B
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 MACHINING 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

FRONT ELEVATION
CROSS SECTION

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)

1/4" - 20 HEX HEAD BOLT WITH WASHER, LOCK WASHER & NUT

4 COLUMNS OF (2) 1/4" - 20 X 3/4" CUP POINT SOCKET SET SCREWS

1/8" IPS HEAVY STEEL LOCKNUT

1/8" IPS ALL THREAD PIPE NIPPLE WELDED TO 3/8" STEEL MOUNTING PLATE

3/4" SCH 40 STEEL PIPE (1.05" O.D.)

1" D.O. BRASS BALL PAINTED TO MATCH POST

1/8" HEAVY STEEL LOCKNUT

9/16" FROM C OF BOLT HOLE TO EDGE OF CLIP

1/4" - 20 X 3/4" CUP POINT SOCKET SET SCREWS

THE HERITAGE SIGN CLAMP ASSEMBLY

3" = 1'-0"

MISC-25103

REF-008_12

THIS DRAWING IS FOR REFERENCE ONLY.
CLAMP SPECIFICATIONS:

STYLE: FOUR PIECE DECORATIVE SHROUD FOR HERITAGE ROADWAY ARM

WIDTH: 10 5/16" 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)

TYPICAL ARM TO SCROLL CONNECTION

SCALE: N.T.S.

FRONT ELEVATION

SCALE: 3" = 1' - 0"

SIDE VIEW

SCALE: 3" = 1' - 0"

RIDE VIEW

SCALE: 3" = 1' - 0"

CLAMP DETAIL

SCALE: 3" = 1' - 0"

CAST ALUMINUM DECORATIVE TAIL

PLATE WELDED TO STEEL SHAFT

SHAFT AND PLATE WELDED TO 4130 STEEL INDIAN PIPE 1/2"-13 BOLTS AND TAPPED FOR THE 1/2" - 13 BOLTS

BRACKET WELDED TO 2 1/2" SCH. 40 STEEL PIPE, OD 2 7/8" (DRILLED BY SPRING CITY)

ALUMINUM TAIL TO BE MECHANICALLY ATTACHED TO STEEL BRACKET

1/4" X 2" 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 CUP POINT SOCKET SET SCREWS

DRAWING NO.

REVISION

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

DRAWING NO.

AS NOTED

MISC-25112

REF-008_13

THIS DRAWING IS FOR REFERENCE ONLY.
THIS DRAWING IS FOR REFERENCE ONLY.
NO NEW INSTALLATIONS.

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

LAMPPPOST ASSEMBLY DWG. FOR
"EL" TRAIN STRUCTURES

N.T.S.
J-5231

REF-009_2
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 H.D.G steel.
4. For blocks see detail of stabilizer weight.
5. The type of control shall be photo electric where field conditions permit.
6. Woodhead Watertite Weatherproof Fused Sockets Graybar Cat. #600.
7. For wiring diagram see NYC DOT Street Lighting Standard Drawing REF-010_3.
NOTES:
1. STANCHIONS ARE M. NO. RF216 OR EQUAL, HANGERS ARE M. NO. RG107 OR EQUAL.
2. CONDUIT LAYOUT IS TYPICAL AND WHERE NECESSARY CHANGES SHALL BE MADE TO MEET CONDIONS.

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 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.

MANHOLE - TYPE F3 MANHOLE HEAD & COVERS CAST IRON

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

PLAN OF FRAME
(WEIGHT 612 LBS)
SCALE: 3/4"=1'-0"

INNER COVER
(WEIGHT 135 LBS)
SCALE: 3/4"=1'-0"

PLAN SHOWING COVER
(WEIGHT 325 LBS)
SCALE: 3/4"=1'-0"

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

WALL INSERTS-MURRAY CAT. RX004M OR EQUAL

CONDUITS

PULLING HOOK

STREET COVER
(WEIGHT 625 LBS)
SCALE: 3/4"=1'-0"

DETAILED PULLING HOOK
SCALE: 1 1/2"=1'-0"

DETAIL OF PULLING HOOK
SCALE: 1 1/2"=1'-0"

ENLARGED VIEW OF NAMEPLATE ON COVER
SCALE: 1 1/2"=1'-0"

NAMEPLATE ON COVER

FORGED OR CAST STEEL LOCK BAR

MILD STEEL SADDLE

BRONZE SET SCREW

BENT UP 1'-0"

29 1/4"

1 1/4"

1/8"

5/8"

1/8"

2 1/16"

4 1/16"

5 1/2"

11 5/8"

12 1/4"

12 1/4"
1. CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION. MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

2. FOR TYPES NO. 2 AND NO. 4 HANGERS ARE MURRAY NO. RG 107 (4 REQ'D) AND NO. RG 214 (4 REQ'D) OR EQUAL.

3. FOR TYPES #A-2 HANGERS ARE MURRAY NO. RG 107 (2 REQ'D) OR EQUAL.

4. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLES.

NOTES:

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 RAPID-DRY 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:

STANCHIONS ARE MURRAY NO. (4 REQ'D) RF 21G OR EQUAL FOR TYPES #2 & #4.
RF 108 OR EQUAL FOR TYPE #A-2 (2 REQ'D)

1. CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION, MFRS. UNUSED KNOCKOUTS SHALL BE PLUGGED.

2. 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" PROJECTION INTO BOX BETWEEN 1-1/2" & 2".
NOTES:
1. CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.
2. ALL FOUR HOLES TO BE TIED WITH NO. 8 G.I. WIRE.
3. SCALE: 1" = 1'-0"
4. ALL HORIZONTAL RODS TO BE BENT AROUND VERTICAL RODS.
5. LIFTING HANDLES
6. WALL INSERTS - MURRAY CAT. RX004M OR EQUAL
7. SCALE: 1 1/2" = 1'-0"
8. 3'-8" 1/2" 2 1/2" CONDUITS 1 1/2" SLEEVES 1 1/4"
9. 4" X 4" WELDED WIRE MESH 4' X 4' WELDED WIRE MESH 6' X 6' WELDED WIRE MESH 2'-0"
10. 4 1/2" DIA. REINFORCING RODS
11. 4" CONDUITS
12. 1 1/2" SLEEVES
13. 8" X 8" BROKEN STONE DRAIN
14. 8" X 8" BROKEN STONE DRAIN
15. 3'-0" 9" 3'-8"
16. 1 1/4"
17. 1 1/2" R = 1 1/2"
18. 1/2" DIA. BENT AS SHOWN
19. DETAILS OF LIFTING HANDLES
20. DETAILS OF COVER AT WALLS
21. PLAN OF BOX SHOWING HALF OF COVER
22. SCALE: 1" = 1'-0"
23. MESH 4" WIRE MESH
24. SCALE: 3" = 1'-0"
25. 1/4"
26. 1/4"
27. 4" CONDUITS
28. 1 1/2" SLEEVES
29. 4 - 1/2" DIA. REINFORCING RODS
30. 4 - 1/2" DIA. REINFORCING RODS
31. MARKER POST, MONOLITHIC WITH BOX TO HAVE BRONZE ARROW
32. NOTES:
1. CONDUCTORS MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
2. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
3. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
4. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
5. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
6. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
7. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
8. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
9. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
10. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
11. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
12. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
13. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
14. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
15. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
16. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
17. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
18. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
19. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
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33. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
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35. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
36. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
37. STANCHIONS ARE MURRAY NO. RF-216 OR EQUAL (4 REQ'D)
38. CONDUITS ARE SHOWN FOR STRAIGHT RUNS. WHERE DIRECTION CHANGES, PROVIDE NECESSARY SLEEVES ACCORDING TO DIRECTION REQUIRED.
39. HANGERS ARE MURRAY NO. 107 (4 REQ'D) AND NO. RO 214 (4 REQ'D) OR EQUAL.
40. A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.
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 SHOULDER OUTSIDE THE BARRIER CURB UNLESS OTHERWISE INDICATED.

2. FOR RAISING MODIFICATION OF EXISTING BOXES SEE NYC DOT STREET LIGHTING STANDARD DRAWING BOX-006.

CONCRETE MEDIAN BARRIER TWO SIDE CLOSURE AT ELECTRIC BOX

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

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 EDGE OF THE NEW ELECTRIC BOX COVER FALLS MORE THAN 7" INTO THE CONCRETE.

CONCRETE MEDIAN BARRIER ONE SIDE CLOSURE AT ELECTRIC BOX

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

ELEVATION AT ELECTRIC BOX

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

PARTIAL PLAN VIEW PLATE ANCHOR DETAIL

SCALE: 1/16" = 1'-0"

NOTE:
THIS STRAP REQUIRED 9 PLATE ONLY

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

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 SHOULDER OUTSIDE THE BARRIER CURB UNLESS OTHERWISE INDICATED.
2. FOR RAISING MODIFICATION OF EXISTING BOXES SEE NYC DOT STREET LIGHTING STANDARD DRAWING BOX-006.

THIS DRAWING IS FOR REFERENCE ONLY.

ELECTRIC BOX IN MEDIAN BARRIER
NOTES:

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.
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. 24" MIN. 36" MAX.
3. 8" TO 3/4" REDUCING COUPLING CROUSE HINDS TYPE REC 42 OR EQUAL
4. 3/4" FLEXIBLE BRONZE HOSE AMERICAN BRASS CO. TYPE-BD-15 WITH ONE SM15 MALE CONNECTOR ON ONE SFU15 UNION CONNECTOR OR EQUAL 24" MIN - 30" MAX
5. 1 1/4" TO 3/4" REDUCING COUPLING CROUSE HINDS TYPE REC 42 OR EQUAL
6. SEE NOTE 1
7. CAP ON END RUN 8"x8"x6" C.I. JUNCTION BOX H.D. GALV. SPRING CITY CO. TYPE IR. MODIFICATION-IH. WITH RECESSED SCREW COVER OR EQUAL
8. 3/4" RIGID CONDUIT H.D. GALV. CROUSE HINDS UNION TYPE-UNF OR EQUAL 3/4", NIPPLE-3" LONG H.D. GALV.
9. ELEVATION PLAN
10. FLUSH MOUNTING DETAIL ON NEW STRUCTURE
11. 5/8" NUT H2O, GALV.
12. 3/4" RIGID CONDUIT H.D. GALV.
13. 1/2" DIA. EXPANSION BOLT WITH TWO UNIT ANCHOR MOUNTING BRACKET SUPPLIED WITH LUMINARE
14. 1 1/4" RIGID CONDUIT H.D. GALV. CROUSE HINDS UNION TYPE-UNF OR EQUAL 3/4", NIPPLE-3" LONG H.D. GALV.
15. 3/4" FLEXIBLE BRONZE HOSE AMERICAN BRASS CO. TYPE-BD-15 WITH ONE SM15 MALE CONNECTOR ON ONE SFU15 UNION CONNECTOR OR EQUAL
16. 3/4" RIGID CONDUIT H.D. GALV. CROUSE HINDS UNION TYPE-UNF OR EQUAL 3/4", NIPPLE-3" LONG H.D. GALV.
17. 3/4" RIGID CONDUIT H.D. GALV. CROUSE HINDS UNION TYPE-UNF OR EQUAL 3/4", NIPPLE-3" LONG H.D. GALV.
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 LUMINARE

5/8" NUT, H.D., GALV.

3/4" NIPPLE - 3" LONG, H.D. GALV.

CROUSE HINDS UNION TYPE 1/2" OR 3/4" NIPPLE, 2" LONG H.D. GALV.

1/4"-20 MACH. SCRS. AND CINCH ANCHORS.

CROUSE HINDS UNION TYPE 1/2" OR 3/4" NIPPLE, 2" LONG H.D. GALV.

CONDUIT

5/8" LONG JIC THREADED COUPLING H.D. GALV.

5/8" ROD, H.D., GALV.

5/8" NUT, H.D., GALV.

1/2" CRL. EXPANSION BOLT WITH TWO UNIT ANCHOR H.D., GALV.

CEILING

MOUNTING BRACKET SUPPLIED WITH LUMINARE

1/4"-20 MACH. SCRS. AND CINCH ANCHORS.

8"x8"x6" C.I. JUNCTION BOX H.D. GALV.

SPRING CITY CO. TYPE IR. WITH RECESSED SCREW COVER.
MOUNT WITH 1/4"-20 MACH. SCRS.

CEILING

CROUSE HINDS UNION TYPE 3/4" NIPPLE, 3" LONG, GALV.

CONDUIT

1/4"-2" H.D. GALV.

BENT STEEL STRAP

DETAIL A

SCALE: 1" = 1'-0"

ELEVATION

PLAN

SURFACE MOUNTING DETAIL ON EXISTING STRUCTURE

SCALE: N.T.S.

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,

METHODS OF INSTALLATION OF UNDERPASS FIXTURE

AS NOTED H-3969

REF-016_2
**INSTALLATION OF PHOTO ELECTRIC CONTROL ON LAMPPOST**

**PLAN VIEW**

**PHOTO ELECTRIC CONTROL RELAY**

**SECTION A-A**

LAMPPOST SHAFT

POLE CAP & ADAPTER

CONTROL UNIT

RECEPTACLE PLATE STREET LIGHTING CORPORATION, CATALOG #165 OR EQUAL

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.

GALVANIZED STEEL FLAT WASHER

STAINLESS STEEL HEX. HEAD NUT & LOCK WASHER

3/4" NO. 8 32 THREADS PER INCH 1 1/2" LONG STAINLESS STEEL MACHINE SCREW

1/8"X1" BENT STRAP GALV. STEEL OR ALUM.

STAINLESS STEEL ROUND HD. MACHINE SCREW 3/8"X1 1/2" LG.

CABLE CLEAT SEE ENLARGED DETAILS

INSTALLATION OF PHOTO ELECTRIC CONTROL UNIT ON TYPES 8 & 12 LAMPPOSTS

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

OLD DRAWING NO.

SCALE:

NEW YORK CITY

THIS DRAWING IS FOR REFERENCE ONLY.

NYCDOT STREET LIGHTING STANDARD DRAWINGS, 2019-11-14

INSTALLATION OF PHOTO ELECTRIC CONTROL UNIT ON TYPES 8 & 12 LAMPPOSTS

N.T.S.

F-3711

REF-017
NOTES:

1. MATERIAL OF CAP SHALL BE EITHER STEEL OR ALUMINUM. WALL THICKNESS SHALL BE APPROX. 0.25 IF STEEL AND 0.38 IF ALUMINUM.

2. FABRICATION MAY BE BY CASTING, WELDING, STAMPING, EXTRUDING, ETC.

3. FINISH OF CAP SHALL BE ARCHITECTURAL BRONZE STANDARD, ARMOTHERANE 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.
8'-0" STEEL SINGLE MEMBER ARM FOR WOOD POLE

DETAIL A

8'-0" STEEL OVERHEAD BRACKET
FOR MOUNTING ON CURVED SURFACE
(BRACKET TO BE HOT DIPPED GALVANIZED)

SCALE: 1" = 1'-0"

BILL OF MATERIALS:
1 SQ. H.D. BOLT 5/8" x 14" LG. WITH 6" THREAD LENGTH, SQ. NUT AND SQ. CURVED WASHER AS SHOWN ON DETAIL.
2 LAG OR DRIVE SCREWS 1/2" x 4" LG.
1 - STEEL POLE PLATE, 8"x9"x1/4" (ASTM A-242 OR A-606).
1 - STEEL BRACE PLATE, 4'-4"x3 1/8"x11GA. (ASTM A-570).
1 - STEEL PIPE MEMBER, 2" SCH. 40x8'-8" (ASTM A-120).
ALL MATERIAL HOT DIPPED GALVANIZED.

SECTION X-X
SECTION Y-Y
BRACE PLATE DETAILS
(ALTERNATE FORMING METHOD)
SCALE: 1" = 1'-0"

DEPARTMENT OF TRANSPORTATION
DIVISION OF STREET LIGHTING
NEW YORK CITY

8'-0" STEEL SINGLE MEMBER ARM FOR WOOD POLE

AS NOTED
J-3585
REF-021
BEVEL EDGE OF OPENING

MOUNTING PLATE

5/8" DIA. x 14" LG. SQ. HD. BOLT, W/ NUT & CURVED WASHER (SEE DET.) GALV. STEEL.

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1 1/2" CABLE ENTRANCE SLOT

ARM ASSEMBLY

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
MAT'L: 6061-T6 ALUM.

SCALE: 3" = 1'-0"

1 3/8" R
1 3/8" DIA. HOLE (CENTERED)

1/4" ± 1/16" 3 1/8" ± 1/8" SLOTTED HOLE (CENTERED)

SCALE: 6" = 1'-0"

2 1/4" R
3/4" ± 1/16" 3/4" ± 1/16" DIA. HOLE (CENTERED)

SCALE: 1" = 1'-0"

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1 1/2" CABLE ENTRANCE SLOT

ARM ASSEMBLY

INSTALL BOLTS WITH ARM AGAINST MOUNTING PLATE

1/2" x 4" LAG SCREW GALV. STEEL (2 REQ'D.)

DETAIL OF MOUNTING PLATE
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1/4" ± 1/16" 3 1/8" ± 1/8" SLOTTED HOLE (CENTERED)

SCALE: 6" = 1'-0"

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3/4" ± 1/16" 3/4" ± 1/16" DIA. HOLE (CENTERED)