Detail	Title	Date of Issue
L.1.1	NEIGHBORHOOD ACORN FIXTURE	October 2026
L.1.2.1	NEIGHBORHOOD 11'-4" STEEL POST	October 2026
L.1.2.2	NEIGHBORHOOD 13'-4" STEEL POST	October 2026
L.1.2.3	NEIGHBORHOOD 16'-4" STEEL POST	October 2026
L.1.2.4	NEIGHBORHOOD STEEL POST STANDARD DETAILS	October 2026
L.1.3	NEIGHBORHOOD TWO PIECE WRAP BASE	October 2026
L.2.1.1	BOULEVARD PENDANT LUMINAIRE - K705	October 2026
L.2.1.2	BOULEVARD PENDANT LUMINARE - K805	October 2026
L.2.2.1	BOULEVARD 20'-10" STEEL POST WITH 5' SINGLE ARM	October 2026
L.2.2.2	BOULEVARD 20'-10" STEEL POST WITH 4' SINGLE ARM	October 2026
L.2.2.3	BOULEVARD 24'-10" STEEL POST WITH 4' SINGLE ARM	October 2026
L.2.2.4	BOULEVARD 24'-10" STEEL POST 5' SINGLE ARM AND 3' ARM	October 2026
L.2.2.5	BOULEVARD STEEL POST STANDARD DETAILS	October 2026
L.2.3	BOULEVARD TWO PIECE BASE	October 2026
L.3.1.1	ARCHITECTURAL LED AREA LUMINAIRE	October 2026
L.3.1.2	HEXAGONAL CONCRETE POLE MOUNTING DETAIL	October 2026
L.3.2.1	HEXAGONAL CONCRETE POST - 14'-0"	October 2026
L.3.2.2	HEXAGONAL CONCRETE POST - 19'-0"	October 2026
L.3.2.3	HEXAGONAL CONCRETE POST - 24'-0"	October 2026
L.3.2.4	HEXAGONAL CONCRETE POST - 29'-0"	October 2026
L.3.2.5	STEEL DOOR FOR CONCRETE POST HANDHOLE	October 2026
L.3.2.6	CONCRETE POST ALUMINUM I.D. TAG	October 2026
L.3.2.7	STRAIGHTNESS TOLERANCES FOR HEXAGONAL CONCRETE POSTS	October 2026
L.3.3.1	6' ALUMINUM BRACKET ARM, SINGLE	October 2026
L.3.3.2	6' ALUMINUM BRACKET ARM, TWIN	October 2026
L.3.3.3	6' ALUMINUM BRACKET ARM, TRIPLE	October 2026
L.4.1.1	FORT POINT LED LUMINARE	October 2026

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOSTON STREET LIGHTING STANDARDS
TABLE OF CONTENTS

DETAIL NO.
TOC.1

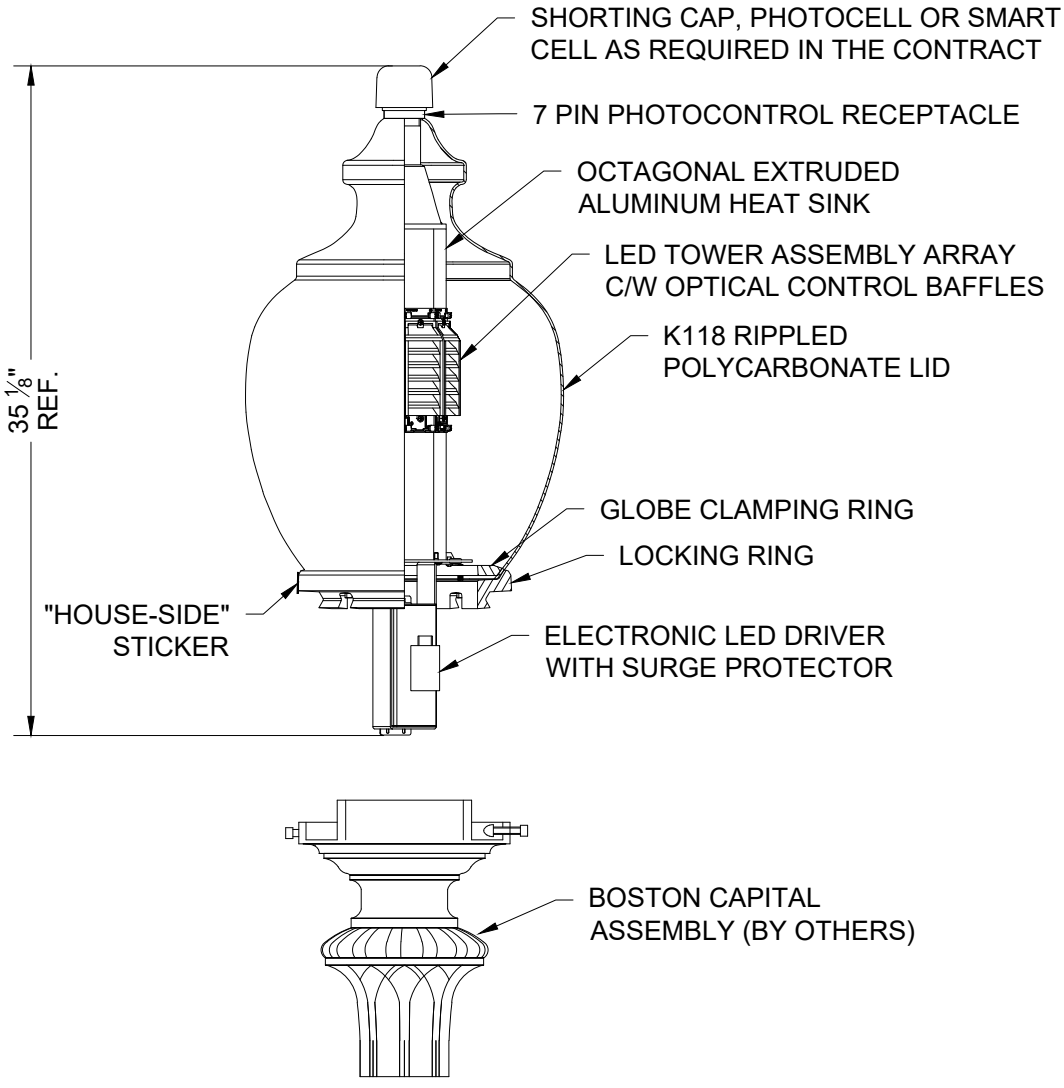
Detail	Title	Date of Issue
L.4.2.1	FORT POINT 13'-4" STEEL POST	October 2026
L.5.1	ELECTRIFIED & GAS COLONIAL LANTERNS	October 2026
L.6.1	HANCOCK 9'-5" GAS LAMP POST	October 2026
L.7.1	COBRA LED LUMINAIRE	October 2026
L.8.1	PHOTOCELL	October 2026
U.1.1	SINGLE CONDUIT TRENCH IN SIDEWALK	October 2026
U.1.2	MULTIPLE CONDUIT TRENCH SIDEWALK AND ROADWAY	October 2026
U.1.3	2" COUPLING AND END BELL	October 2026
U.2.1	PRECAST CONCRETE PULLBOX	October 2026
U.2.2	PRECAST CONCRETE PULLBOX SHALLOW DEPTH	October 2026
U.3.1	PRECAST CONCRETE PULLBOX EXTENDER - 3"	October 2026
U.3.2	PRECAST CONCRETE PULLBOX EXTENDER - 6"	October 2026
U.4.1	COMPOSITE CONCRETE PULLBOX FRAME AND COVER	October 2026
U.4.2	CAST IRON FRAME AND COVER FOR ROADWAY PULLBOX	October 2026
U.5.1	LOCATION PLAN PULLBOXES IN SIDEWALK AREA WITH TREE PITS	October 2026
U.5.2	PULLBOXES IN SIDEWALK AREA WITH TREES (SIDEWALK 7'-0" & GREATER)	October 2026
U.5.3	PULLBOXES IN SIDEWALK AREA WITH TREES (SIDEWALK LESS THAN 7'-0")	October 2026
U.5.4	LOCATION PLAN PULLBOXES IN SIDEWALK AREA WITH NO TREES	October 2026
U.5.5	PULLBOXES IN SIDEWALK AREA WITH NO TREES (SIDEWALK 7'-0" & GREATER)	October 2026
U.5.6	PULLBOXES IN SIDEWALK AREA WITH NO TREES (SIDEWALK LESS THAN 7'-0")	October 2026
U.5.7	LOCATION PLAN PULLBOXES IN ROADWAY AREA	October 2026
U.5.8	PULLBOXES IN ROADWAY AREA (SIDEWALK 7'-0" & GREATER)	October 2026

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOSTON STREET LIGHTING STANDARDS
TABLE OF CONTENTS

DETAIL NO.
TOC.2

Detail	Title	Date of Issue
U.5.9	LOCATION PLAN PULLBOXES IN SIDEWALK AREA (SIDEWALK LESS THAN 7'-0")	October 2026
U.6.1	PRECAST CONCRETE LIGHT STANDARD BASE	October 2026
U.6.2	PRECAST CONCRETE LIGHT STANDARD SHORT BASE	October 2026
U.6.3	PRECAST CONCRETE LIGHT STANDARD TALL BASE	October 2026
U.7.1	STREET LIGHT CONTROL CABINET AND MOUNTING BRACKETS	October 2026
U.7.2	STREET LIGHT CONTROL CABINET BRACKET AND PANELBOARD ASSEMBLY	October 2026
U.7.3.1	CABINET AND PANELBOARD WIRING	October 2026
U.7.3.2	CABINET AND PANELBOARD SAFETY SWITCHES	October 2026
U.7.3.3	CABINET AND PANELBOARD PANELBOARD COMPONENT SIZE AND PLACEMENT	October 2026
U.7.3.4	CABINET AND PANELBOARD WIRE TROUGH	October 2026
U.8.1	BARREL CONNECTOR SPLICE	October 2026
U.8.2	BARREL CONNECTOR SPLICE SPLICING SPECIFICATION	October 2026
U.8.3	BARREL CONNECTOR SPLICE SPLICING SPECIFICATION	October 2026
U.9	SPLICING SPECIFICATION TYPICAL DETAILS	October 2026
U.10	STRAIGHT THRU CONNECTOR	October 2026
U.11	FUSES	October 2026
U.12	STREET LIGHTING NON-CONDUCTING INSULATING SLEEVE	October 2026
U.13	CONTACTOR	October 2026
U.14	CONTACTOR SPECIFICATION	October 2026



NOTES:

1. GLOBE TO REMAIN ONE PIECE. DO NOT CUT INTO TWO PIECES.
2. ALL LIGHTING ASSEMBLIES SHALL BE UL 1598 AND UL 8750 LISTED, AND MEET THE REQUIREMENTS OF ANSI C81.61.

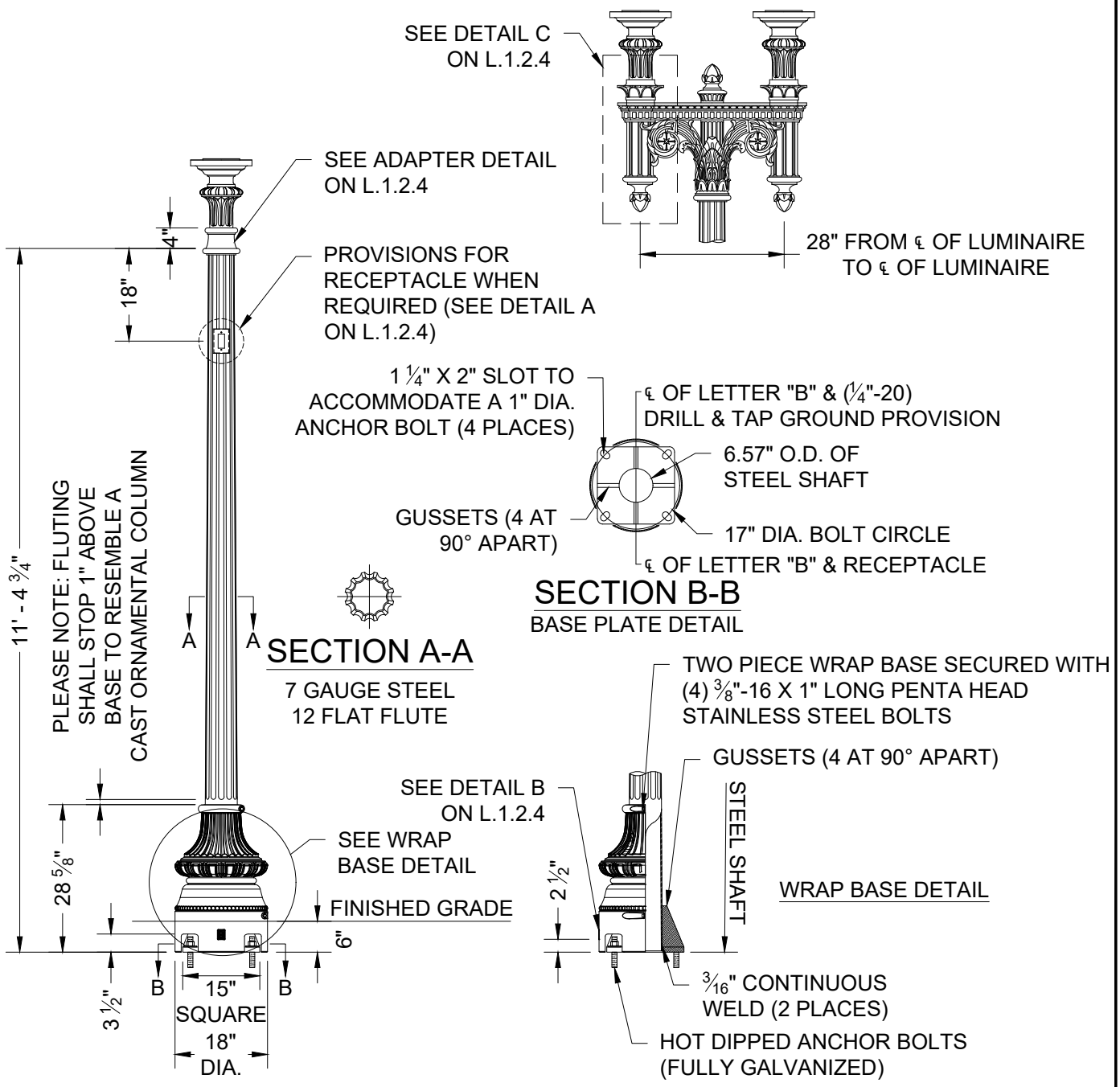
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD ACORN FIXTURE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.1.1



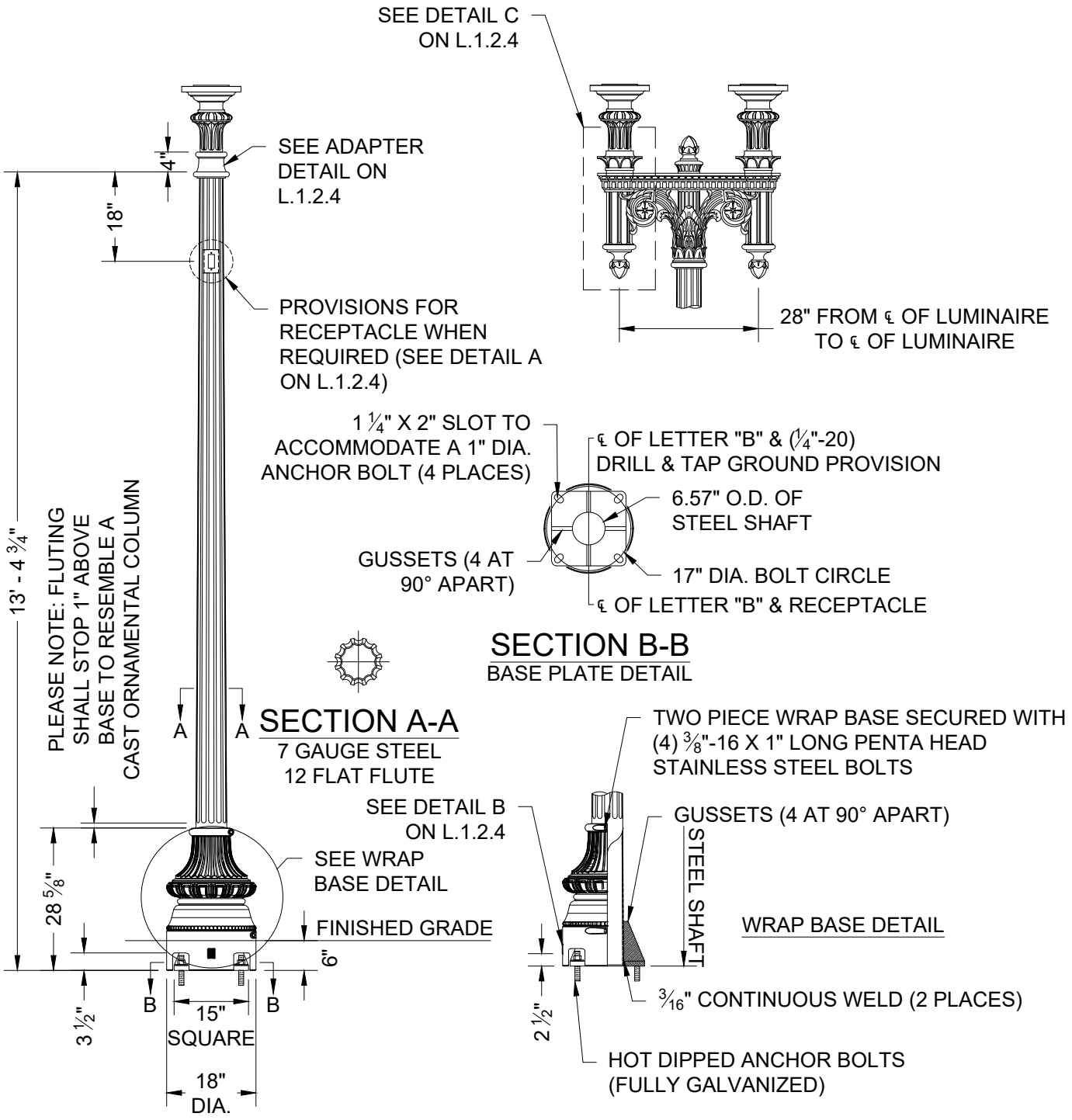
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD 11'-4" STEEL POST

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

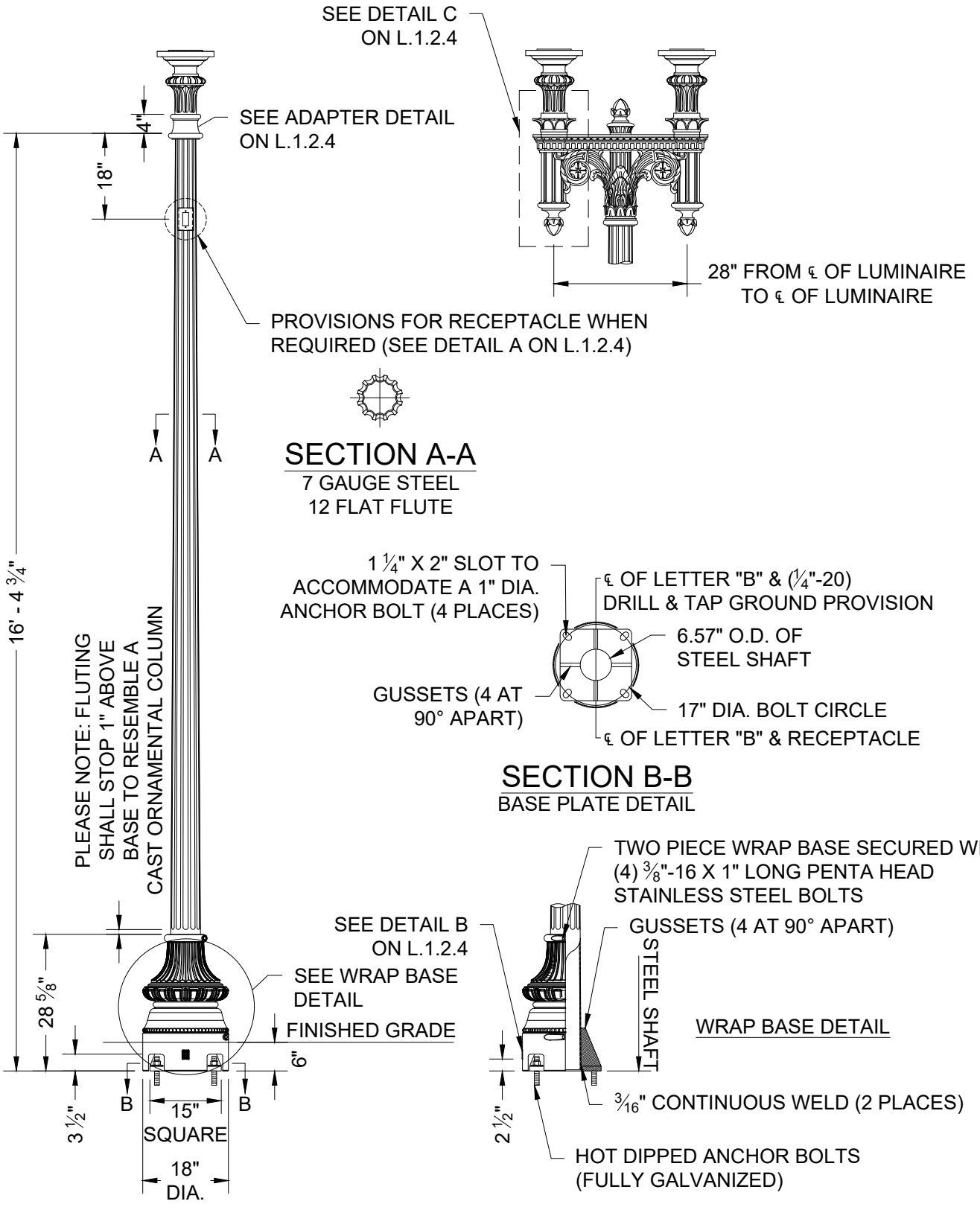
DETAIL NO. L.1.2.1



Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD 13'-4" STEEL POST

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.1.2.2



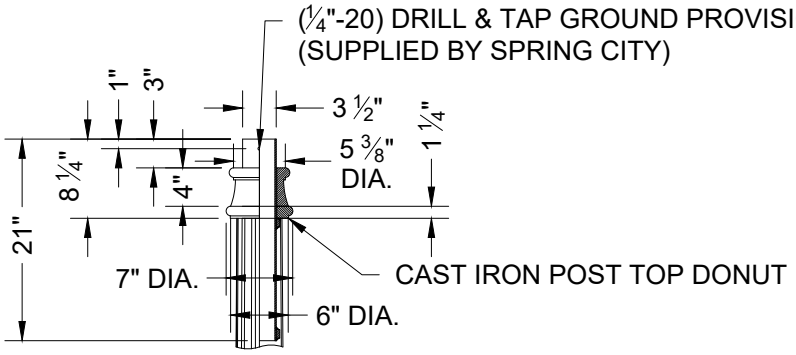
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD 16'-4" STEEL POST

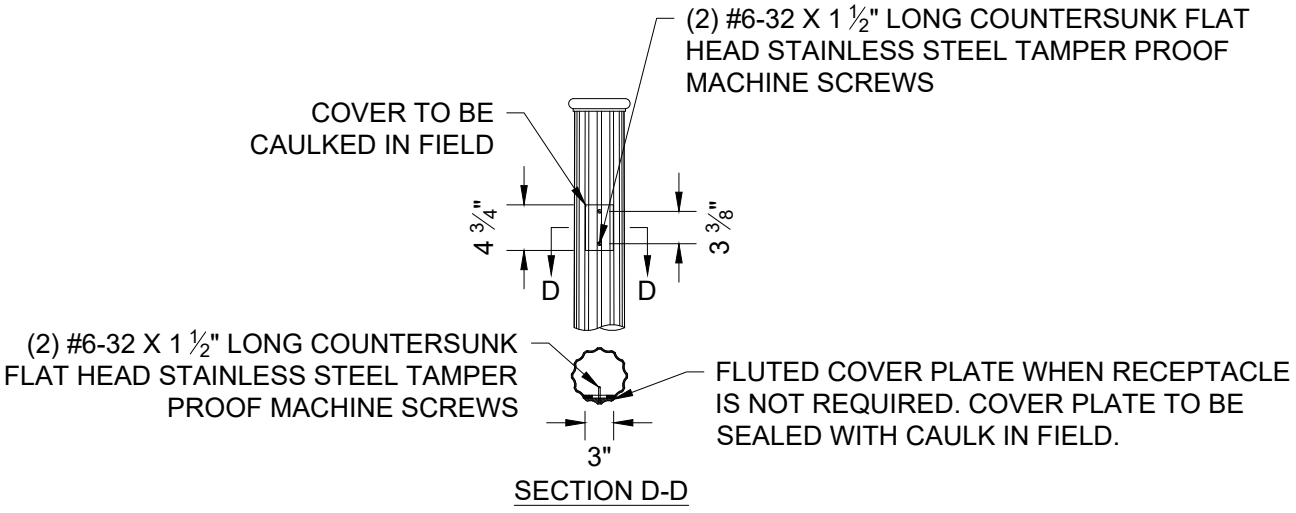
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.1.2.3



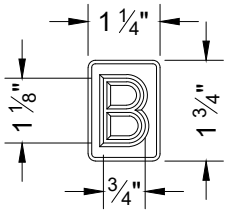
ADAPTER DETAIL



SECTION D-D

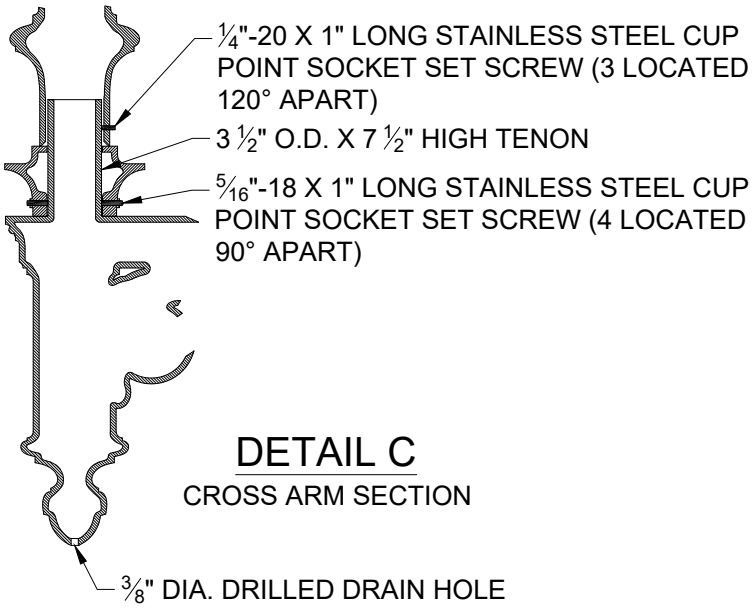
DETAIL A

RECEPTACLE PROVISIONS WITH COVER PLATE



DETAIL B

SEE SECTION B-B FOR LOCATION



DETAIL C

CROSS ARM SECTION

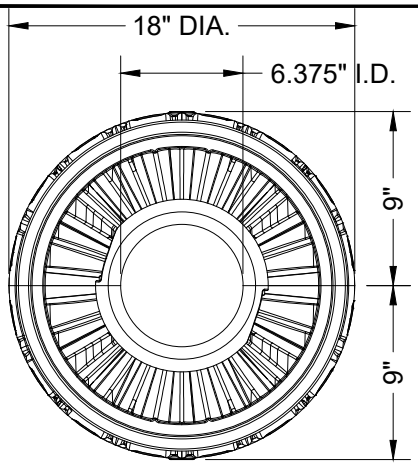
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD STEEL POST STANDARD DETAILS

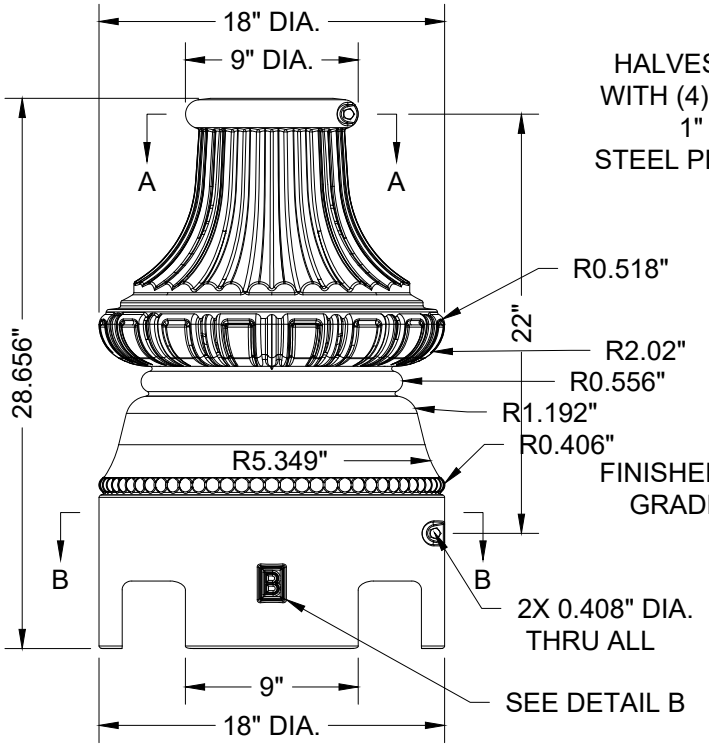
DATE OF ISSUE: 10/06/2026

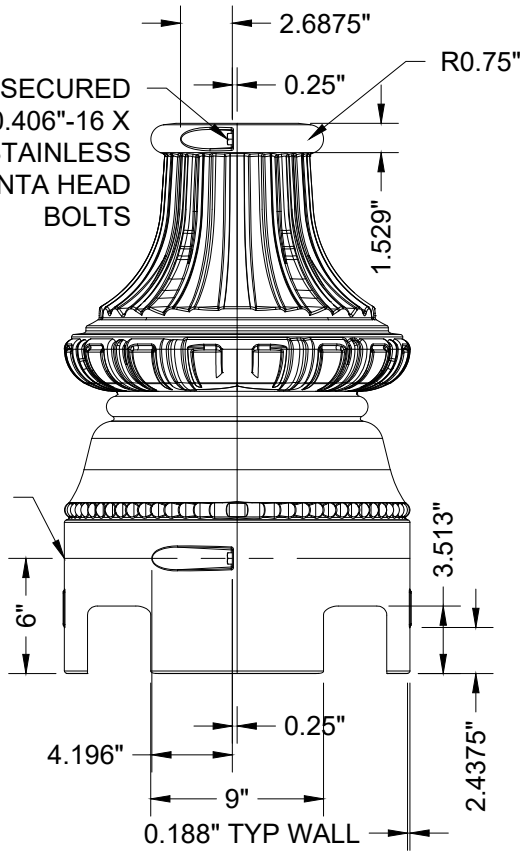
SCALE: N.T.S.

DETAIL NO. L.1.2.4

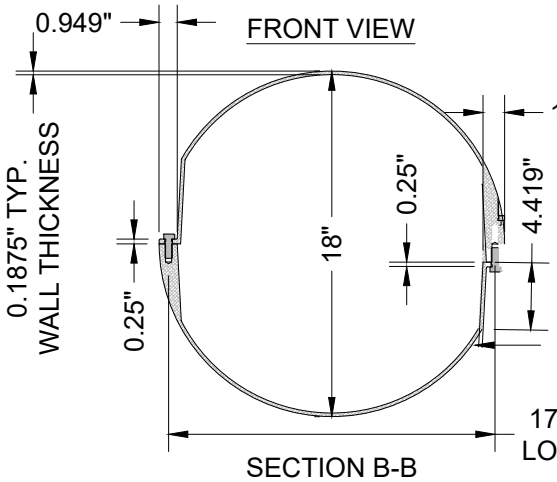


TOP VIEW

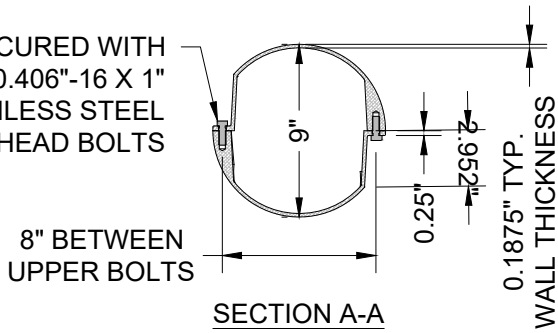




SIDE VIEW



SECTION B-B



SECTION A-A

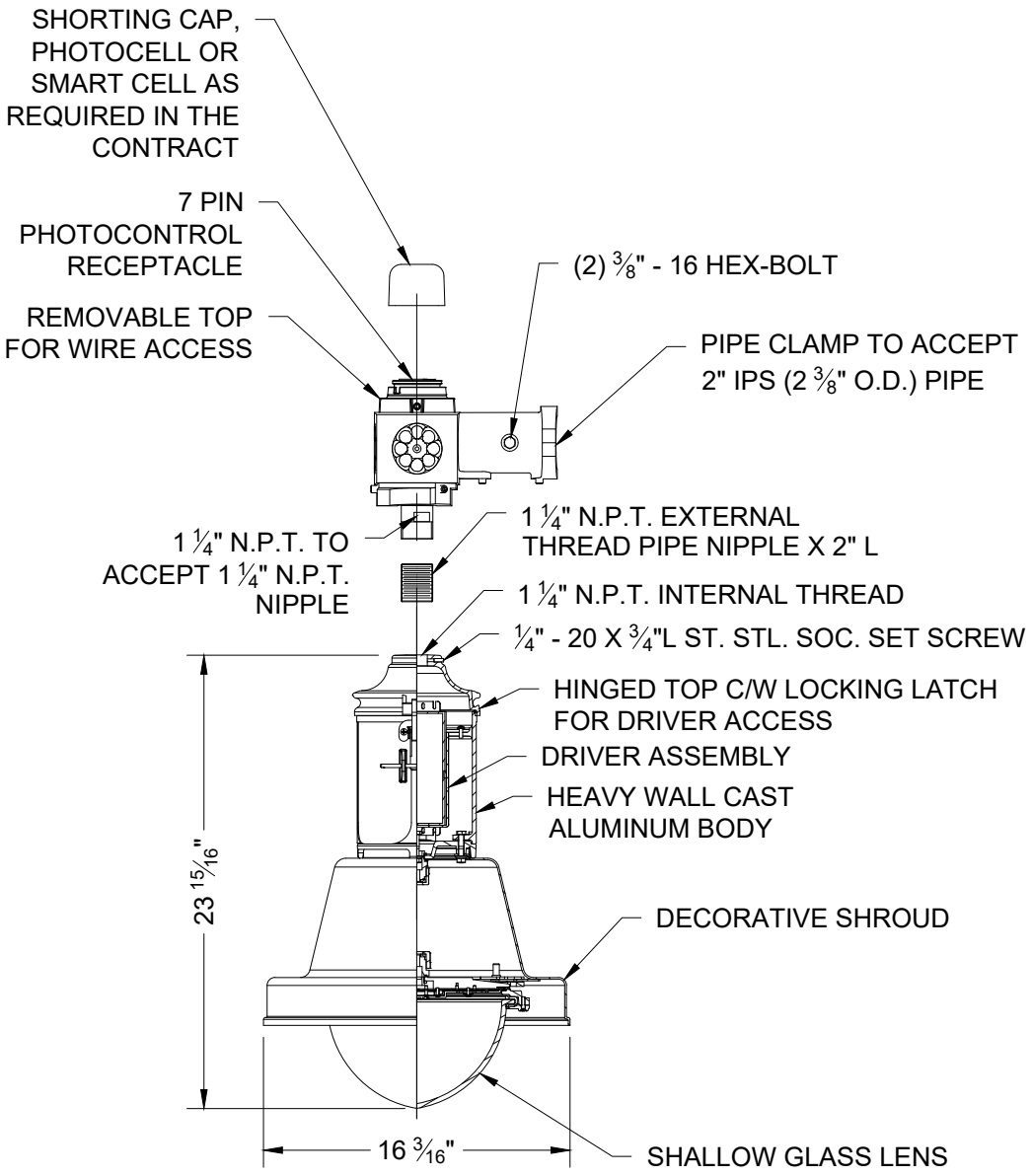
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

NEIGHBORHOOD TWO PIECE WRAP BASE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.1.3



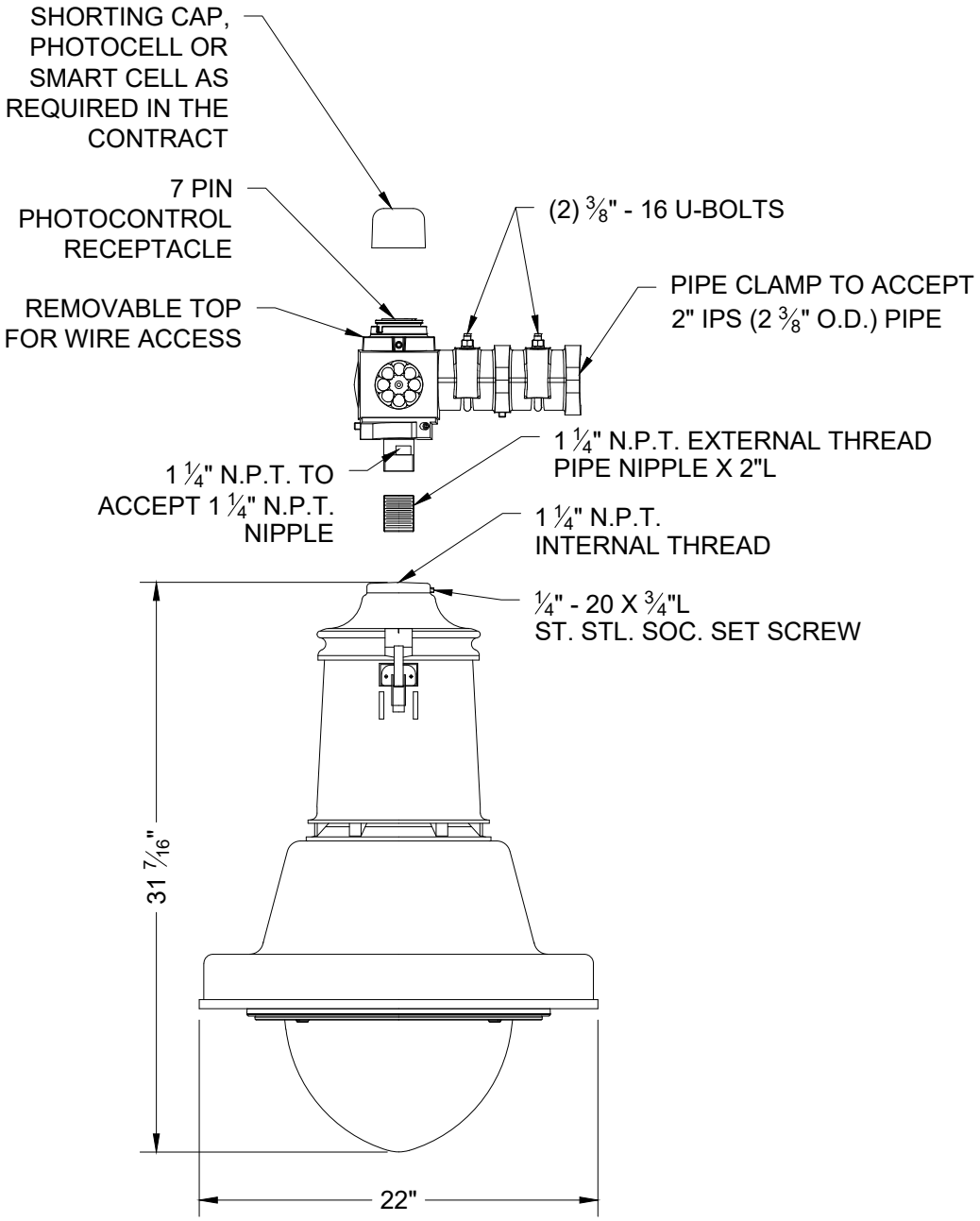
NOTES:

1. PIPE SEALER TO BE USED ON ALL NATIONAL PIPE THREAD (N.P.T.) THREADED COMPONENTS.
2. ALL LIGHTING ASSEMBLIES SHALL BE UL 1598 AND UL 8750 LISTED, AND MEET THE REQUIREMENTS OF ANSI C81.61.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD JR PENDANT LUMINAIRE - K705

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.2.1.1



NOTES:

1. PIPE SEALER TO BE USED ON ALL NATIONAL PIPE THREAD (N.P.T.) THREADED COMPONENTS.
2. ALL LIGHTING ASSEMBLIES SHALL BE UL 1598 AND UL 8750 LISTED, AND MEET THE REQUIREMENTS OF ANSI C81.61.

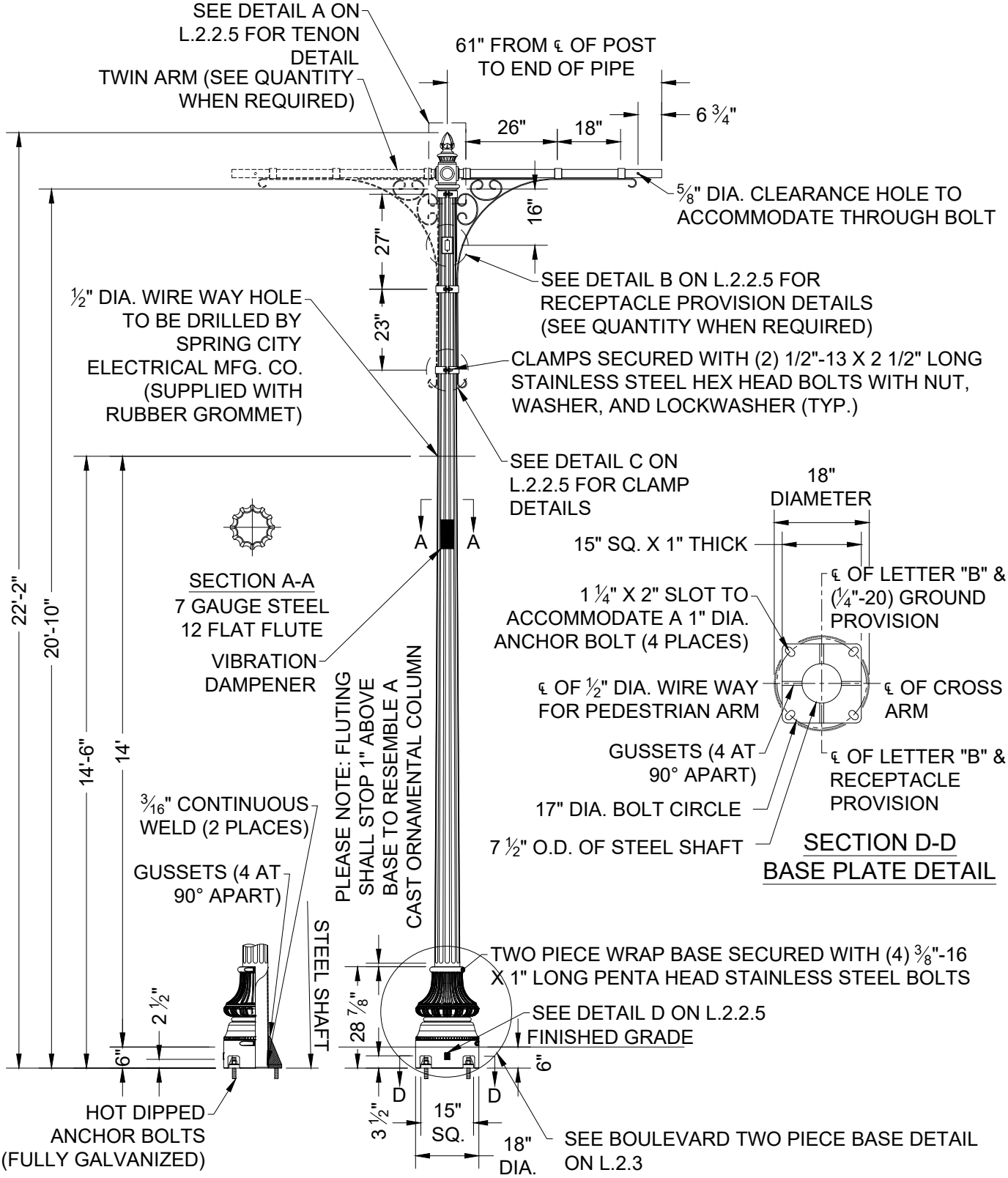
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD PENDANT LUMINAIRE - K805

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.2.1.2



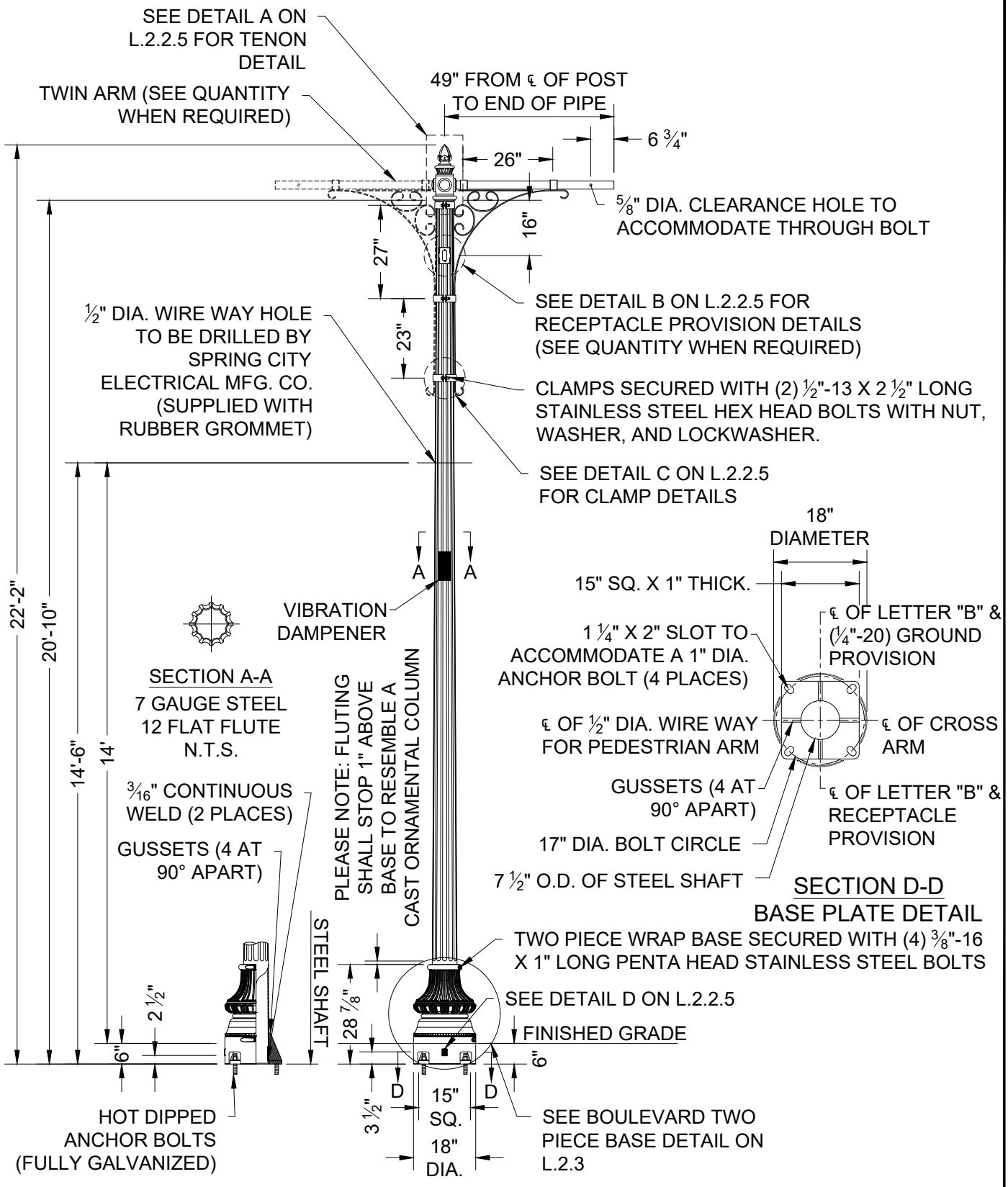
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD 20'-10" STEEL POST WITH 5' SINGLE ARM

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.2.2.1



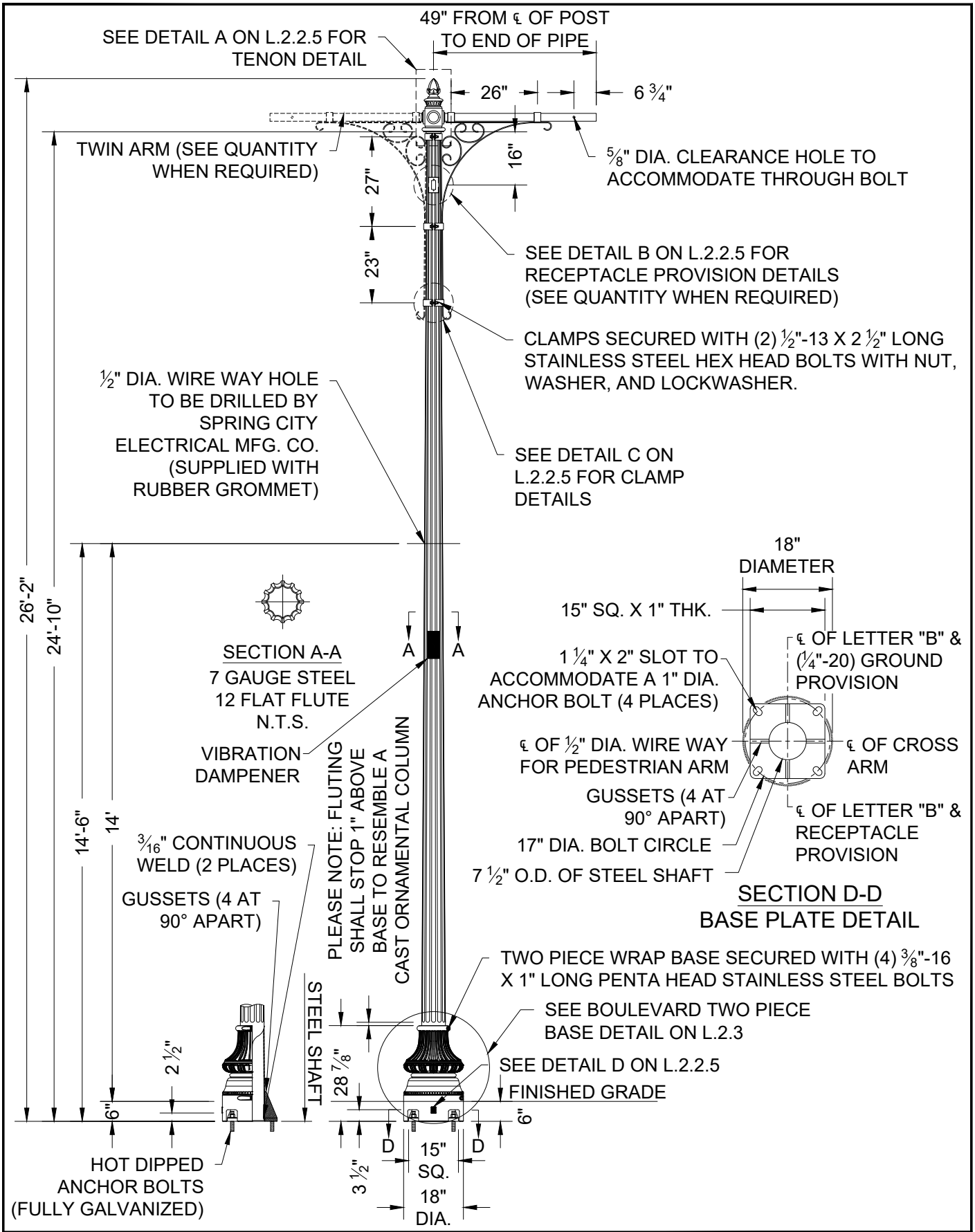
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD 20'-10" STEEL POST WITH 4' SINGLE ARM

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

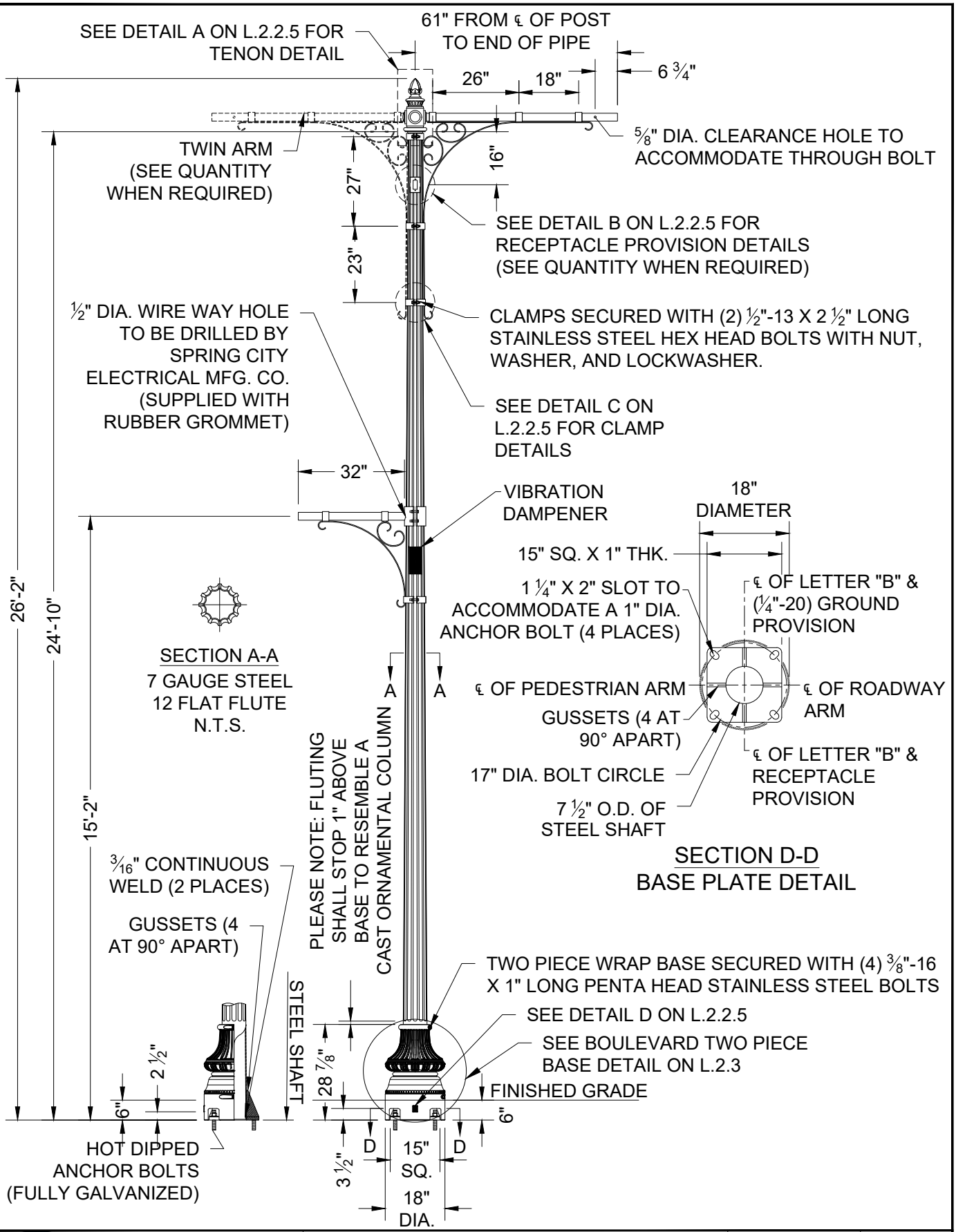
DETAIL NO. L.2.2.2



Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD 24'-10" STEEL POST WITH 4' SINGLE ARM

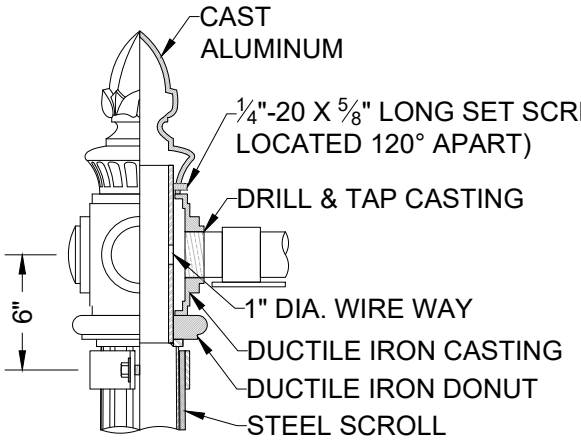
DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.2.2.3



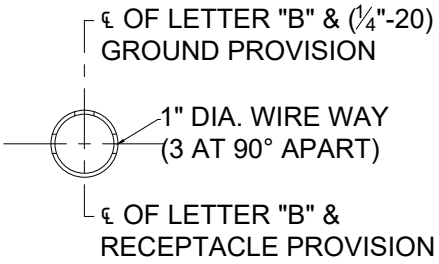
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

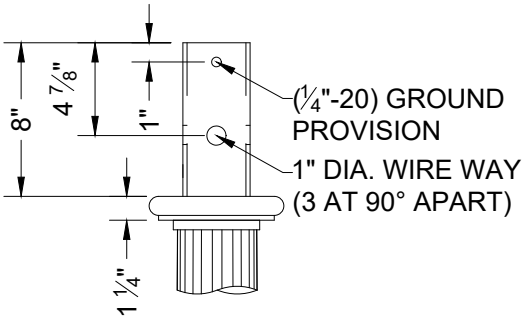
BOULEVARD 24'-10" STEEL POST 5' SINGLE ARM AND 3' ARM

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.2.2.4

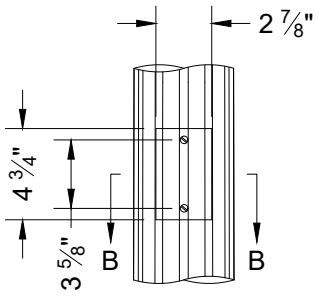


DETAIL A
TENON DETAIL

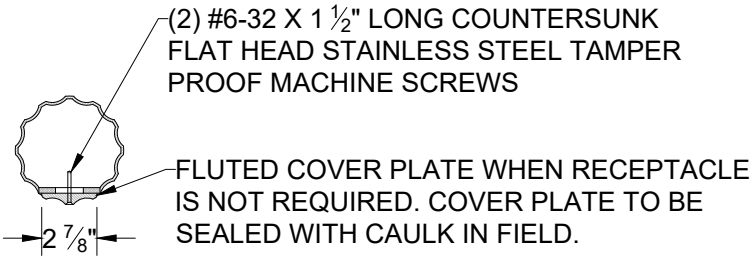




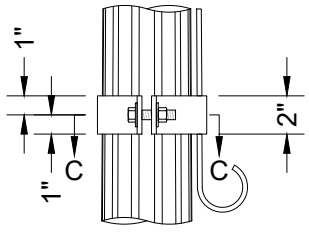
TENON DETAIL



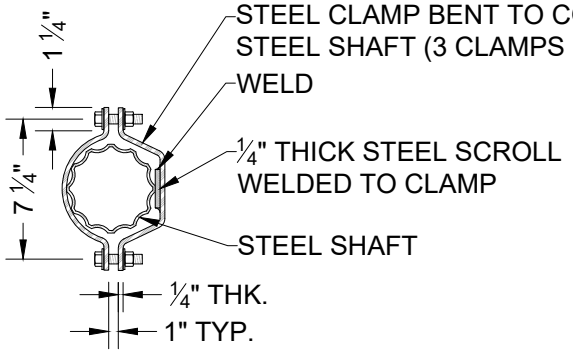
DETAIL B
RECEPTACLE DETAIL



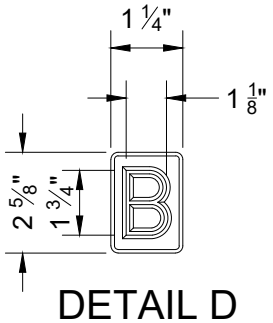
SECTION B-B



DETAIL C
CLAMP DETAIL



SECTION C-C



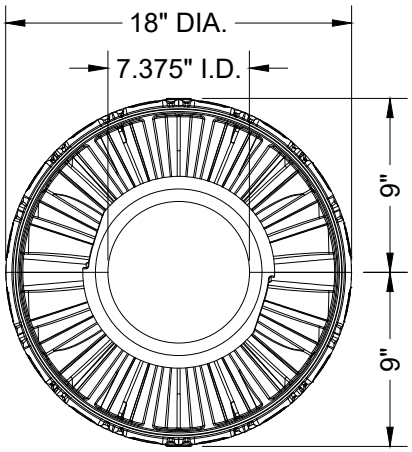
DETAIL D

SEE SECTION D-D FOR LOCATION

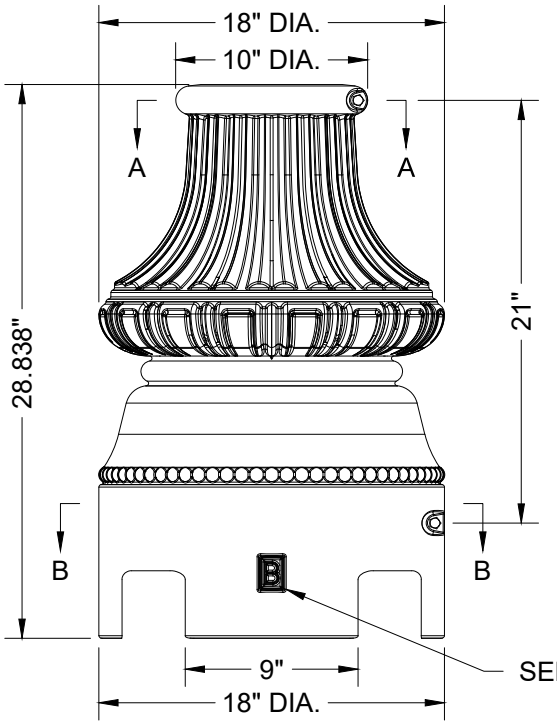
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD STEEL POST STANDARD DETAILS

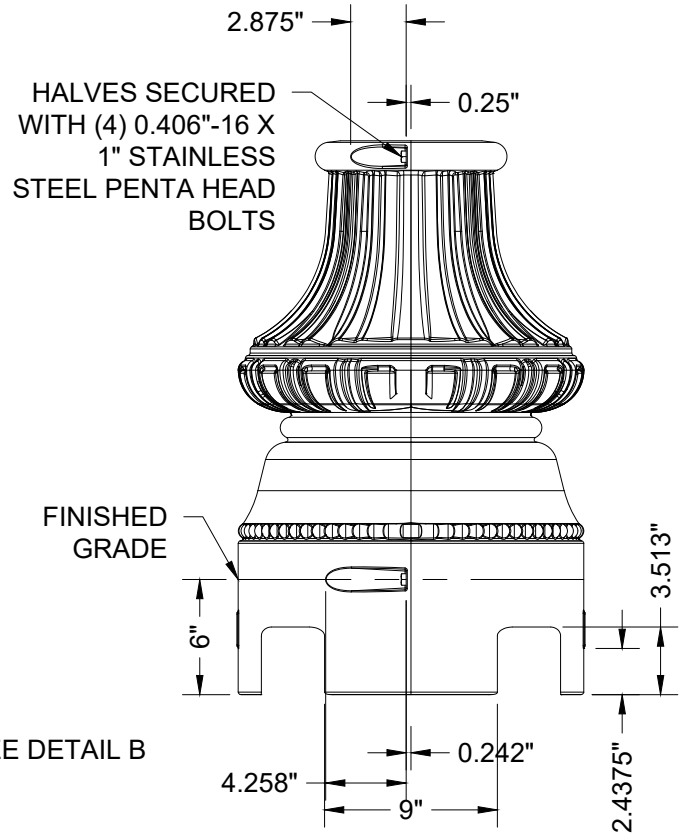
DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.2.2.5



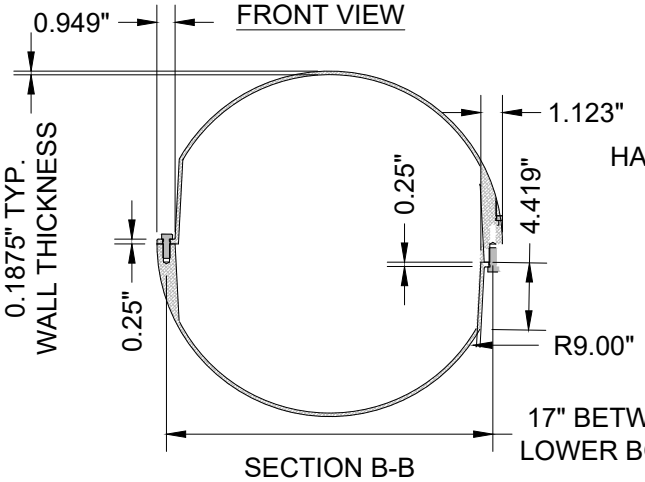
TOP VIEW



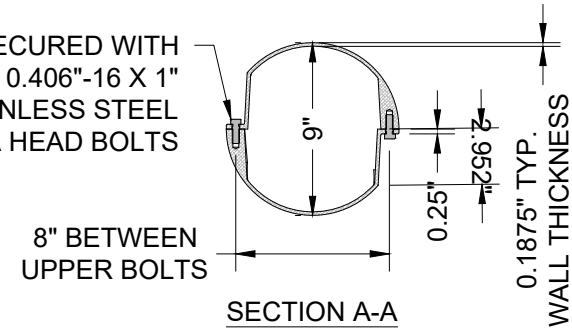
FRONT VIEW



SIDE VIEW



SECTION B-B



SECTION A-A

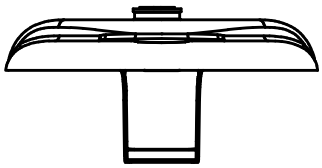
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BOULEVARD TWO PIECE BASE

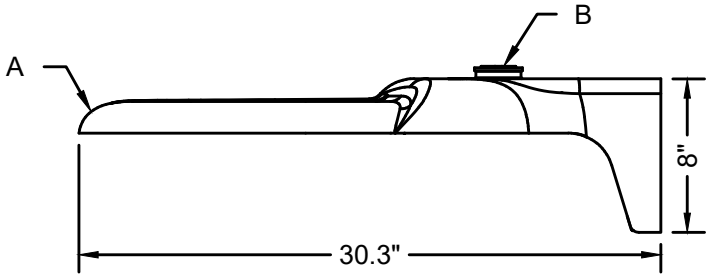
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

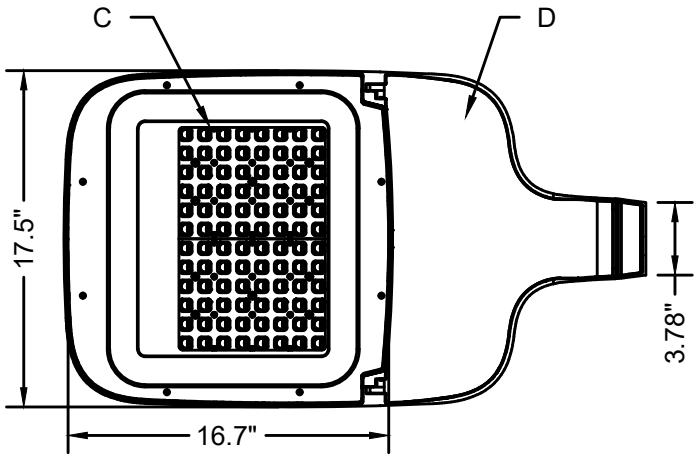
DETAIL NO. L.2.3



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

NOTES:

A) CORROSION-RESISTANT ALUMINUM SINGLE-CAST HOUSING
B) 7 PIN PHOTOCONTROL RECEPTACLE COMPATIBLE WITH WIRELESS CONTROL NODE, STANDARD PHOTOCELL, SHORTING CAP OR SMART CELL AS REQUIRED IN THE CONTRACT
C) IMPACT AND UV RESISTANT OPTICAL POLYCARBONATE 100,000-HR RATED (IP66 RATED) INTEGRATED LED
D) POWER DOOR HOUSING LIGHT LEVEL CONTROLS (STANDARD 1 - 10V DIMMING), POWER SUPPLY (100,000-HR RATED) AND SURGE PROTECTOR MEETING ENHANCED (10kV/5kA) ANSI C136.2-2015 SPECIFICATION

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

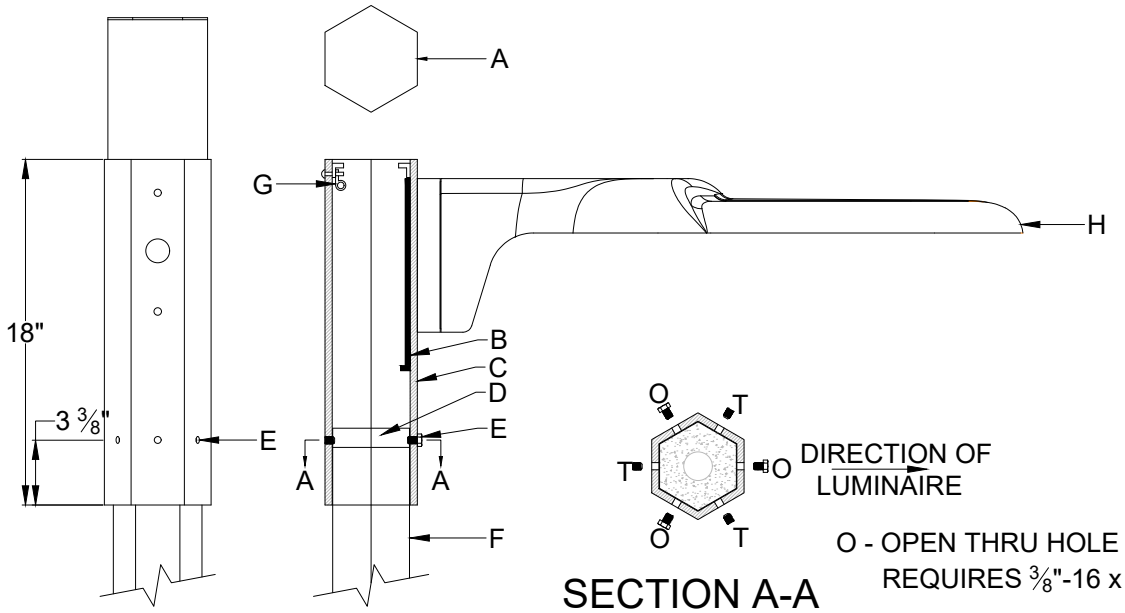
ARCHITECTURAL LED AREA LUMINAIRE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO.

L.3.1.1



SECTION A-A

O - OPEN THRU HOLE
REQUIRES 3/8"-16 x 1/2" HEX BOLT

T - THREADED HOLE
REQUIRES 3/8"-16 x 3/8" SET SCREWS

NOTES:

A) REMOVABLE HEXAGONAL COVER FASTENED BY (2) SCREWS - 1/4"-28 x 1/2"

B) 3/16" THICK STEEL REINFORCING PLATE AND POST STOP, ZINC CLAD PLUS YELLOW IRIDITE FINISH. DRILLED AND TAPPED TO ACCEPT (2) 3/8"-16 X 1-1/4" HEX BOLTS (FOR LUMINAIRE MOUNTING)

C) HEXAGONAL EXTRUDED ALUMINUM POST EXTENSION TO SLIP OVER CONCRETE POLE. 3/8" WALL THICKNESS, 4 1/16" INNER DIMENSION ACROSS FLATS.

D) METAL POLE COLLAR (BY POLE MANUFACTURER)

E) HEXAGONAL HEAD S.S. MACHINE SCREWS AND S.S. SET SCREWS. SEE SECTION A-A FOR POSITION OF THE SCREWS.

F) CONCRETE POLE

G) STANDARD PLASTIC WIRE CLIP TO HOLD AS MANY AS (3) #10 AWG WIRES, FASTENED TO COVER BY A SCREW AND A NUT

H) ARCHITECTURAL LED AREA LUMINAIRE

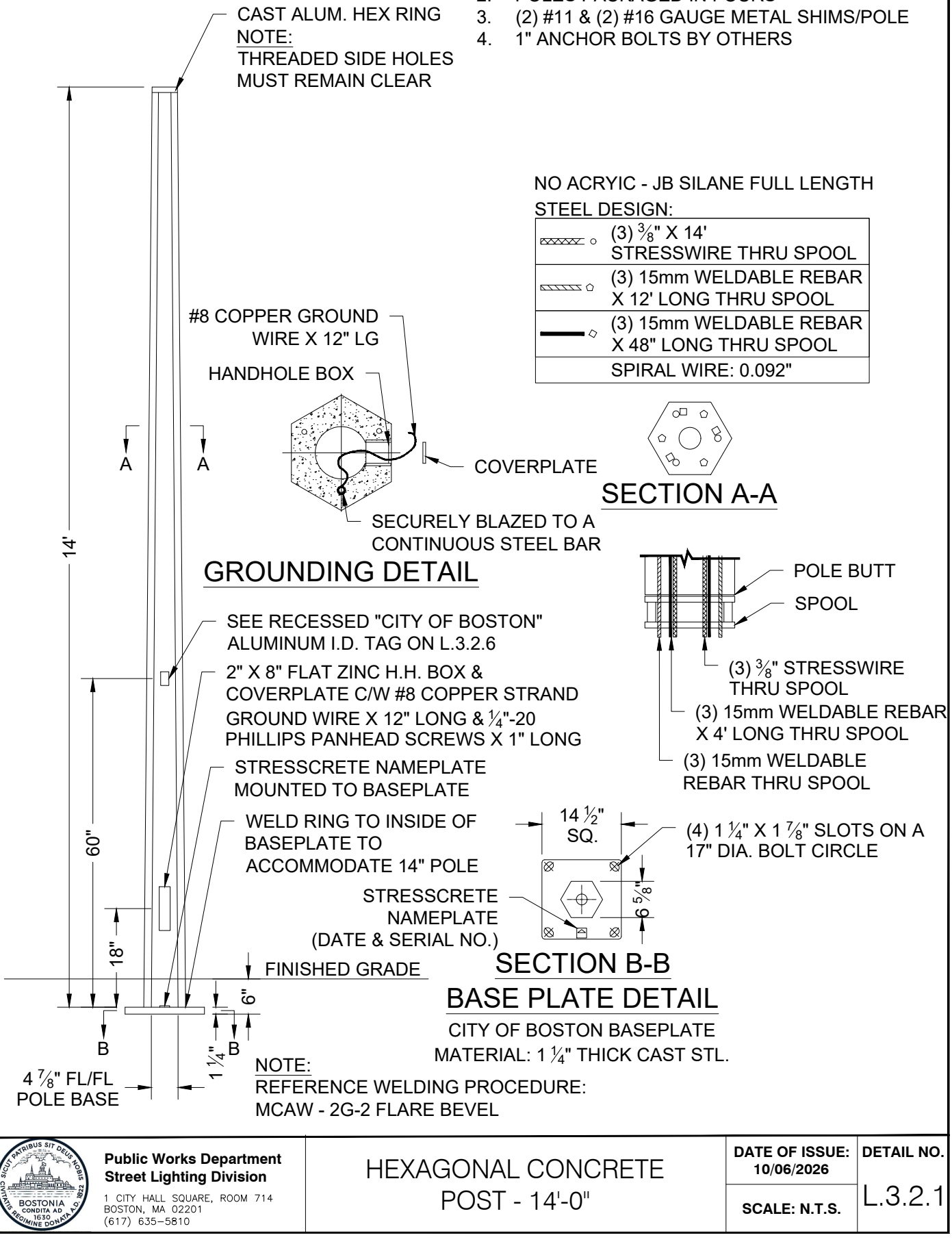
I) ALL LIGHTING ASSEMBLIES SHALL BE UL 1598 AND UL 8750 LISTED, AND MEET THE REQUIREMENTS OF ANSI C81.61. LED DRIVERS SHALL MEET THE REQUIREMENTS OF ANSI C82 2021 & 2022 AND C137.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

HEXAGONAL CONCRETE POLE MOUNTING DETAIL

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.3.1.2

NOTES:
1. MIN. 1" RACEWAY TO POLE TOP
2. POLES PACKAGED IN FOURS
3. (2) #11 & (2) #16 GAUGE METAL SHIMS/POLE
4. 1" ANCHOR BOLTS BY OTHERS

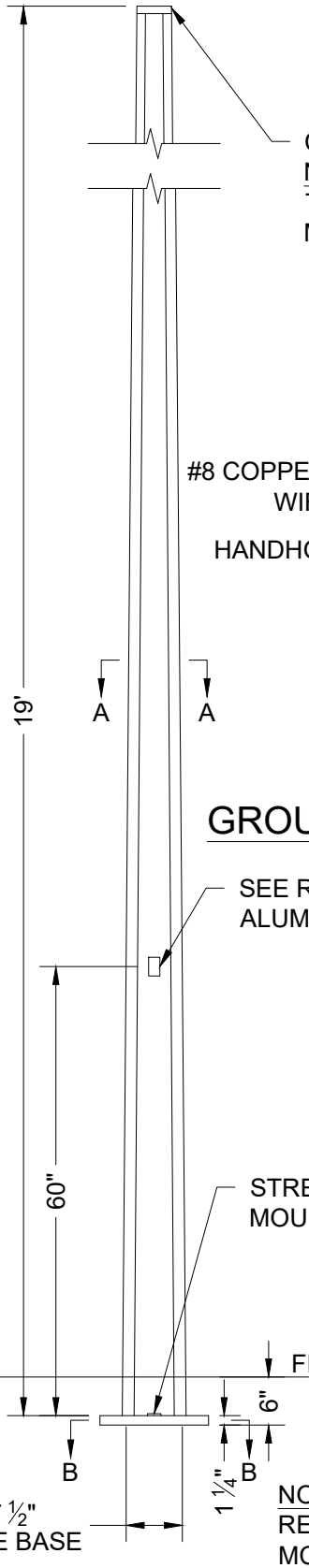


Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

HEXAGONAL CONCRETE POST - 14'-0"

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.3.2.1

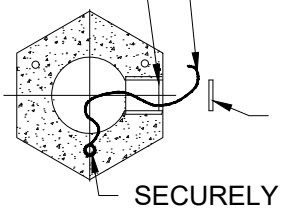
NOTES:
1. MIN. 1" RACEWAY TO POLE TOP
2. POLES PACKAGED IN FOURS
3. (2) #11 & (2) #16 GAUGE METAL SHIMS/POLE
4. 1" ANCHOR BOLTS BY OTHERS



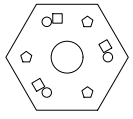
NO ACRYIC - JB SILANE FULL LENGTH

STEEL DESIGN:

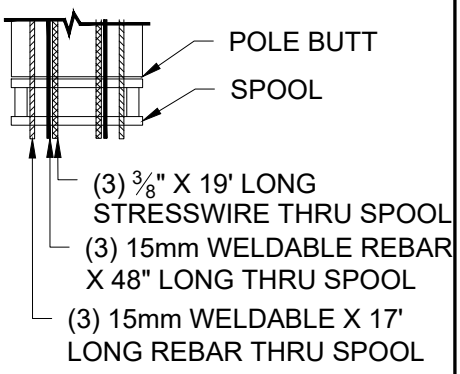
	(3) ⅜" X 19' STRESSWIRE THRU SPOOL
	(3) 15mm WELDABLE REBAR X 17' LONG THRU SPOOL
	(3) 15mm WELDABLE REBAR X 48" LONG THRU SPOOL
	SPIRAL WIRE: 0.092"



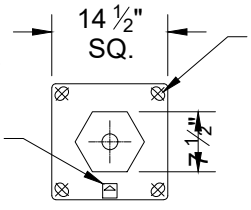
GROUNDING DETAIL



SECTION A-A



SEE RECESSED "CITY OF BOSTON" ALUMINUM I.D. TAG ON L.3.2.6



FINISHED GRADE

SECTION B-B

BASE PLATE DETAIL

#19 CITY OF BOSTON BASEPLATE
MATERIAL: 1 ¼" THICK CAST STL.

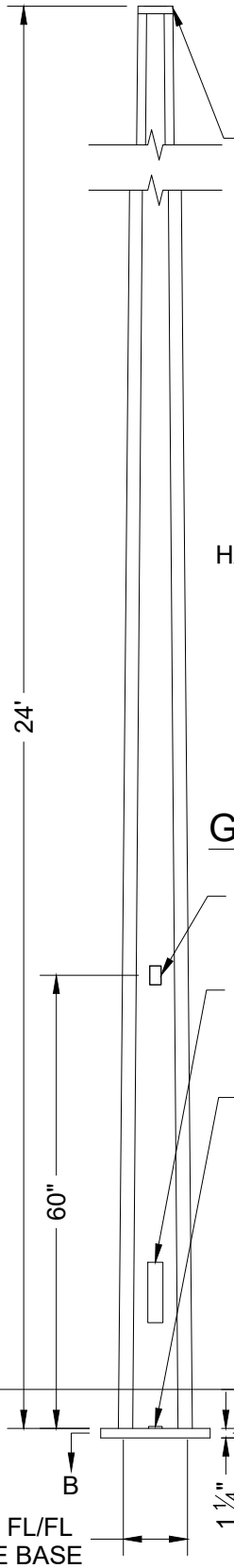
NOTE:
REFERENCE WELDING PROCEDURE:
MCAW - 2G-2 FLARE BEVEL

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

HEXAGONAL CONCRETE POST - 19'-0"

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.3.2.2

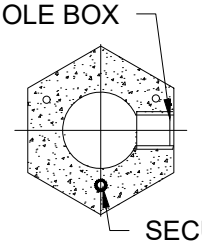
NOTES:
1. MIN. 1" RACEWAY TO POLE TOP
2. POLES PACKAGED IN FOURS
3. (2) #11 & (2) #16 GAUGE METAL SHIMS/POLE
4. 1" ANCHOR BOLTS BY OTHERS



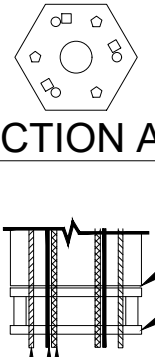
NO ACRYIC - JB SILANE FULL LENGTH

STEEL DESIGN:

	(3) ⅜" X 24' STRESSWIRE THRU SPOOL
	(3) 15mm WELDABLE REBAR X 20' LONG THRU SPOOL
	(3) 15mm WELDABLE REBAR X 48" LONG THRU SPOOL
	SPIRAL WIRE: 0.092"



GROUNDING DETAIL

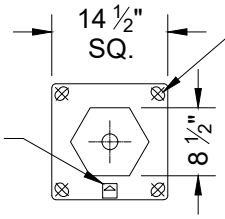


SECTION A-A

SEE RECESSED "CITY OF BOSTON" ALUMINUM I.D. TAG ON L.3.2.6

2" X 8" FLAT ZINC H.H. BOX & COVERPLATE C/W #6 COPPER STRAND GROUND WIRE & ¼"-20 PHILLIPS PANHEAD SCREWS X 1" LONG

STRESSCRETE NAMEPLATE MOUNTED TO BASEPLATE



SECTION B-B

FINISHED GRADE

BASE PLATE DETAIL

#24 CITY OF BOSTON BASEPLATE
MATERIAL: 1 ¼" THICK CAST STL.

NOTE:
REFERENCE WELDING PROCEDURE:
MCAW - 2G-2 FLARE BEVEL

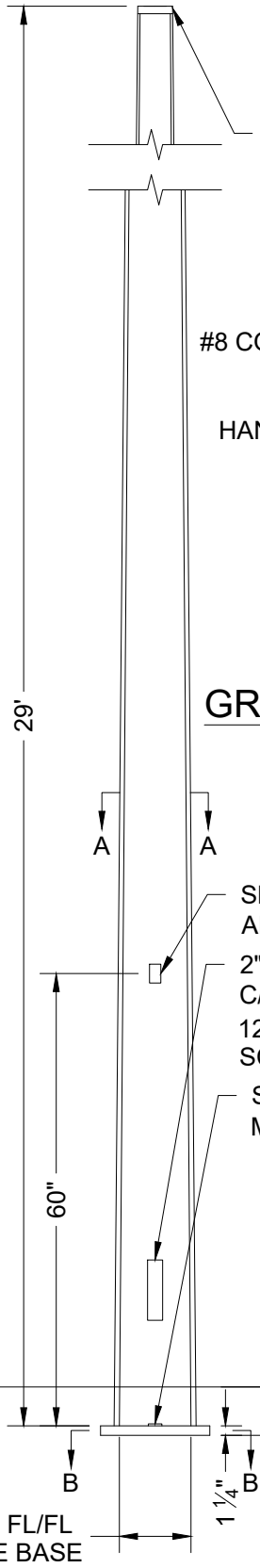
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

HEXAGONAL CONCRETE POST - 24'-0"

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.3.2.3

NOTES:

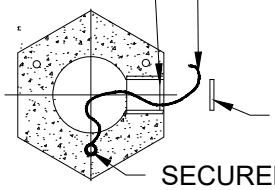
1. MIN. 1" RACEWAY TO POLE TOP
2. POLES PACKAGED IN FOURS
3. (2) #11 & (2) #16 GAUGE METAL SHIMS/POLE
4. 1" ANCHOR BOLTS BY OTHERS



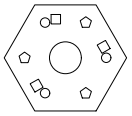
NO ACRYIC - JB SILANE FULL LENGTH

STEEL DESIGN:

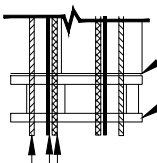
	(3) ⅜" X 29' STRESSWIRE THRU SPOOL
	(3) 15mm WELDABLE REBAR X 26' LONG THRU SPOOL
	(3) 15mm WELDABLE REBAR X 48" LONG THRU SPOOL
	SPIRAL WIRE: 0.092"



GROUNDING DETAIL



SECTION A-A



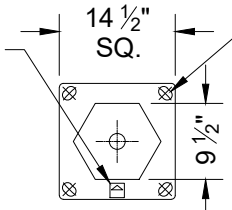
(3) ⅜" X STRESSWIRE THRU SPOOL

(3) 20mm WELDABLE REBAR X 48" LONG THRU SPOOL

(3) 15mm WELDABLE REBAR X 8' LONG THRU SPOOL

**SPLICE WITH (3) #4 REBAR X 21' LONG - OVERLAP 36"

NOTE: #4 REBAR SHOULD START 36" BELOW TIP



SECTION B-B

BASE PLATE DETAIL

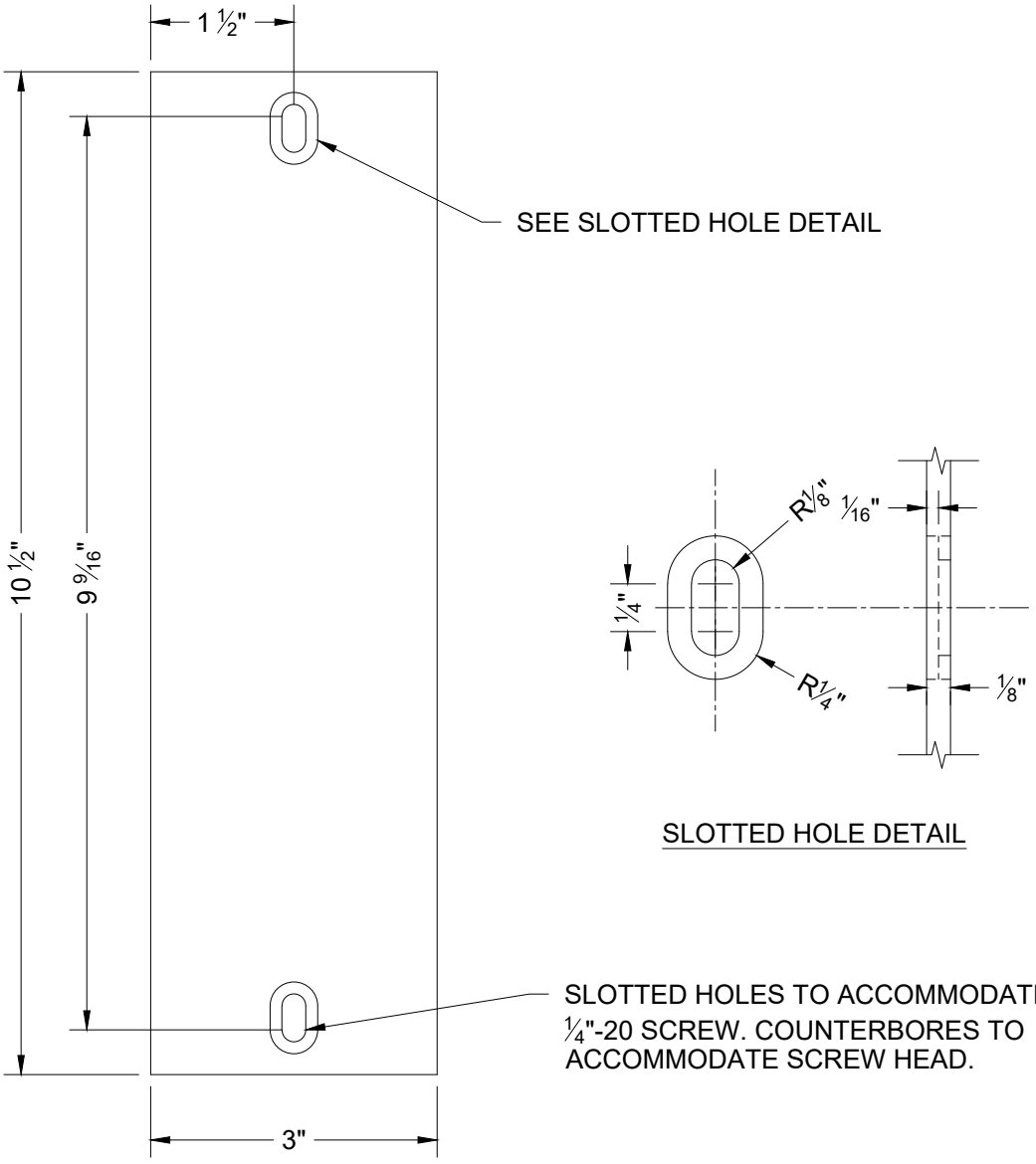
#29 CITY OF BOSTON BASEPLATE

MATERIAL: 1 ¼" THICK CAST STL.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

HEXAGONAL CONCRETE POST - 29'-0"

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.3.2.4



SLOTTED HOLE DETAIL

NOTE:
DOOR MADE OF 11 GAUGE STAINLESS STEEL.
ALL SHARP EDGES SHALL BE DEBURRED.

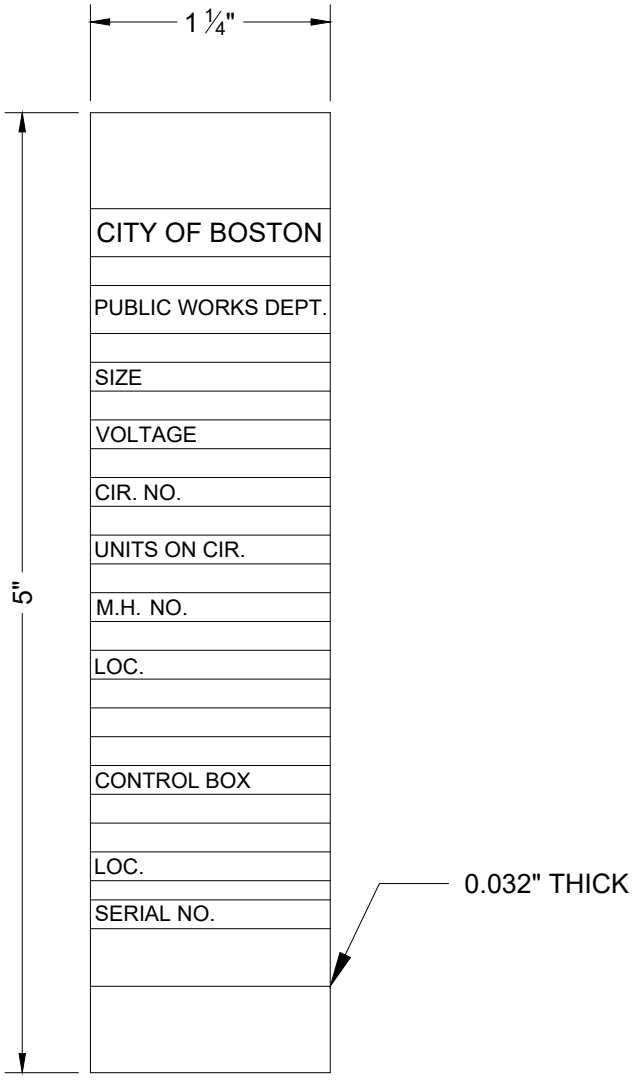
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STEEL DOOR FOR CONCRETE POST HANDHOLE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.2.5



DETAIL A

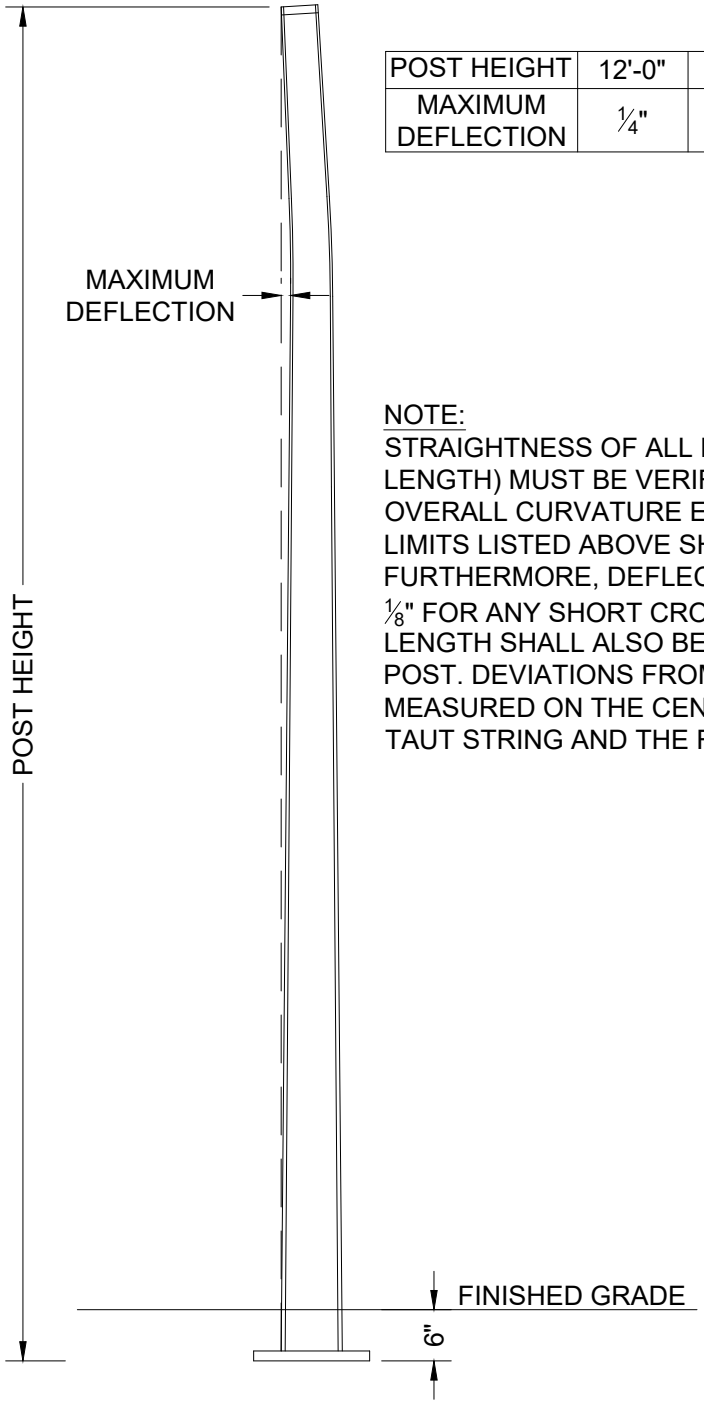
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CONCRETE POST ALUMINUM I.D. TAG

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.2.6



POST HEIGHT	12'-0"	14'-0"	19'-0"	24'-0"	29'-0"
MAXIMUM DEFLECTION	1/4"	1/4"	3/8"	1/2"	5/8"

NOTE:
STRAIGHTNESS OF ALL POSTS (WHATEVER LENGTH) MUST BE VERIFIED; POSTS EXHIBITING OVERALL CURVATURE EXCEEDING ALLOWABLE LIMITS LISTED ABOVE SHALL BE REJECTED. FURTHERMORE, DEFLECTION GREATER THAN 1/8" FOR ANY SHORT CROOK 60" OR LESS IN LENGTH SHALL ALSO BE CAUSE TO REJECT THE POST. DEVIATIONS FROM LINEARITY SHALL BE MEASURED ON THE CENTER LINE BETWEEN A TAUT STRING AND THE FACE OF THE POST.

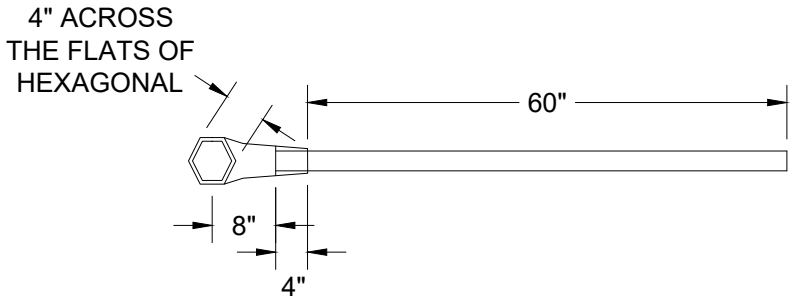
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STRAIGHTNESS TOLERANCES FOR HEXAGONAL CONCRETE POSTS

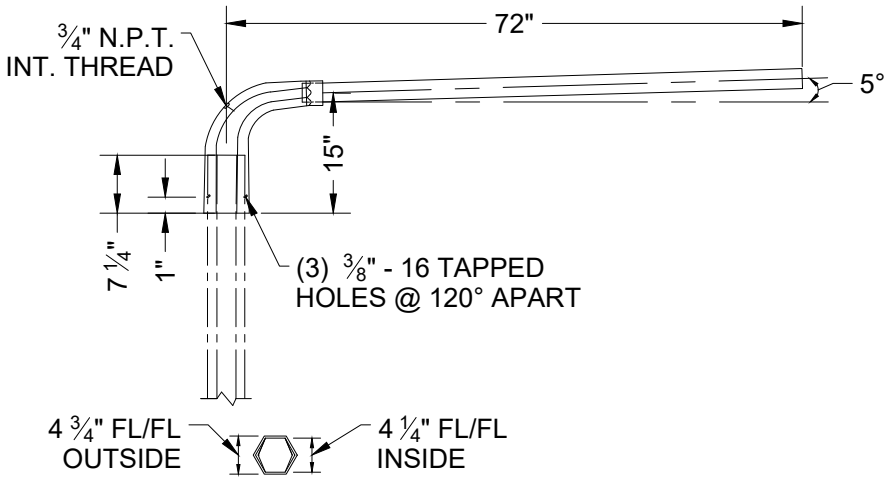
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.2.7



TOP VIEW



FRONT VIEW

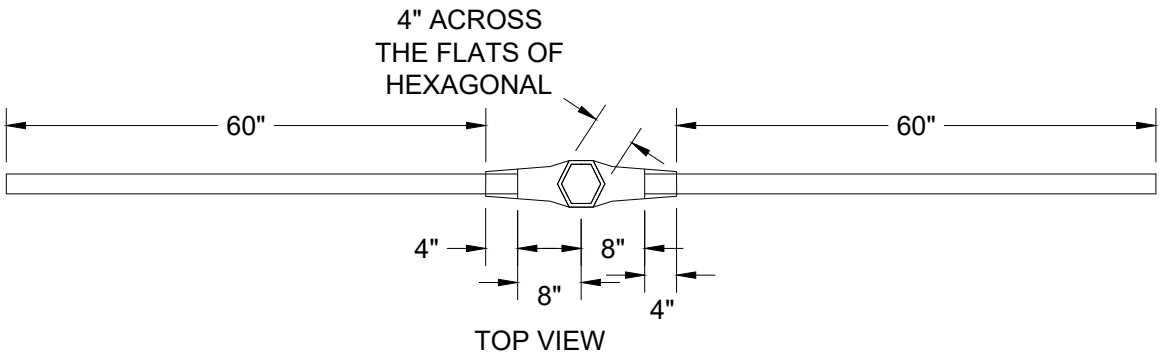
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

6' ALUMINUM BRACKET ARM, SINGLE

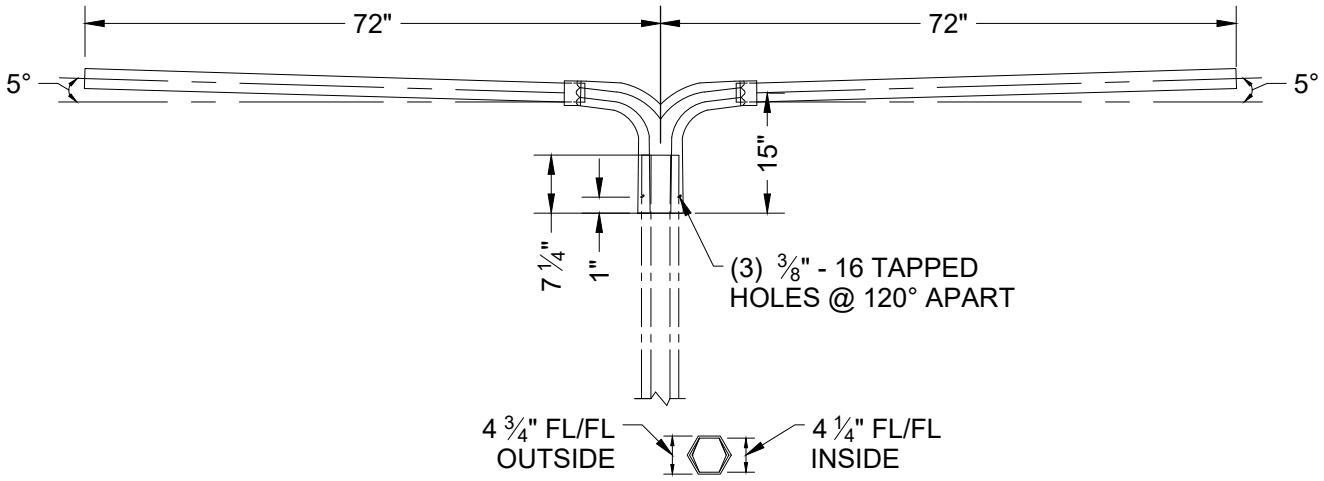
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.3.1



TOP VIEW



FRONT VIEW

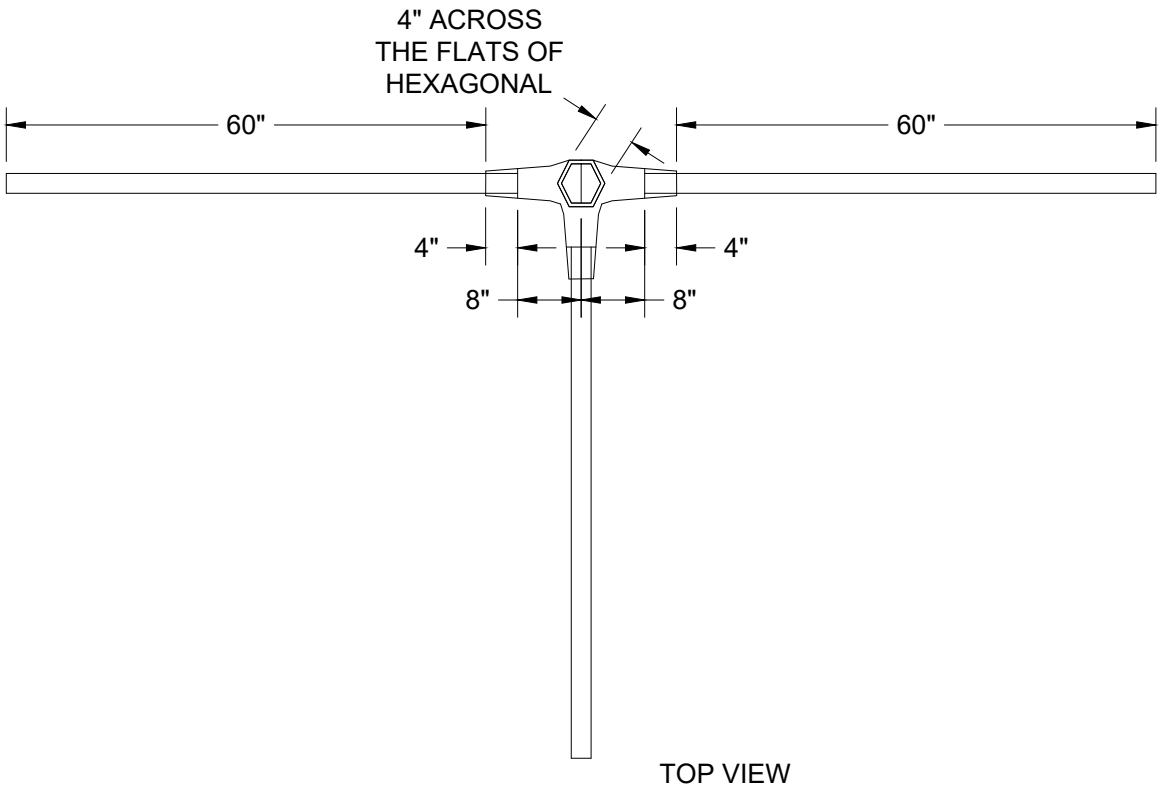
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

6' ALUMINUM BRACKET ARM, TWIN

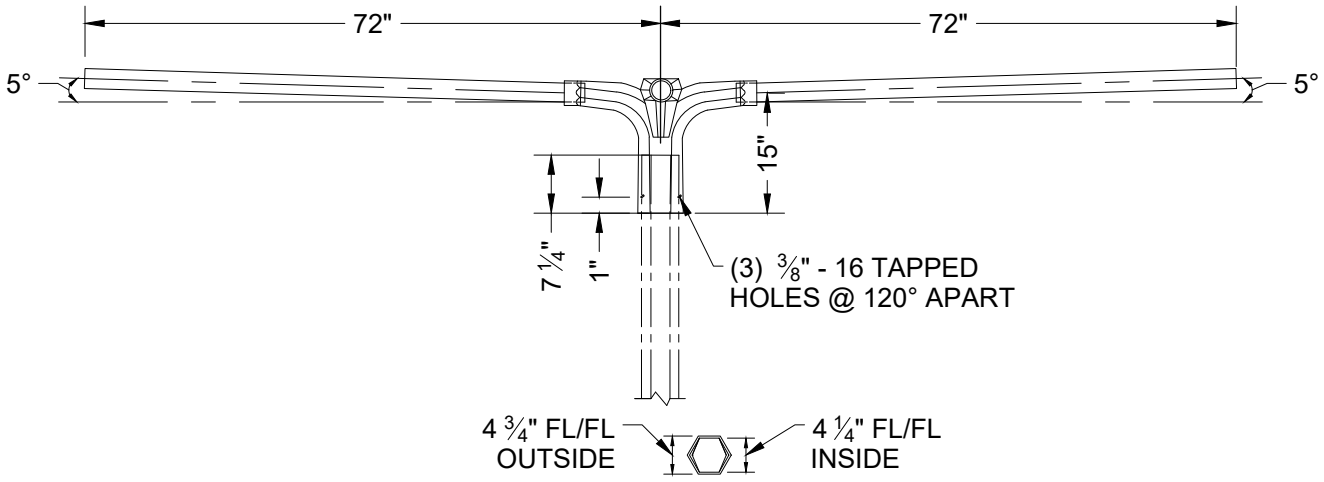
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.3.2



TOP VIEW



FRONT VIEW

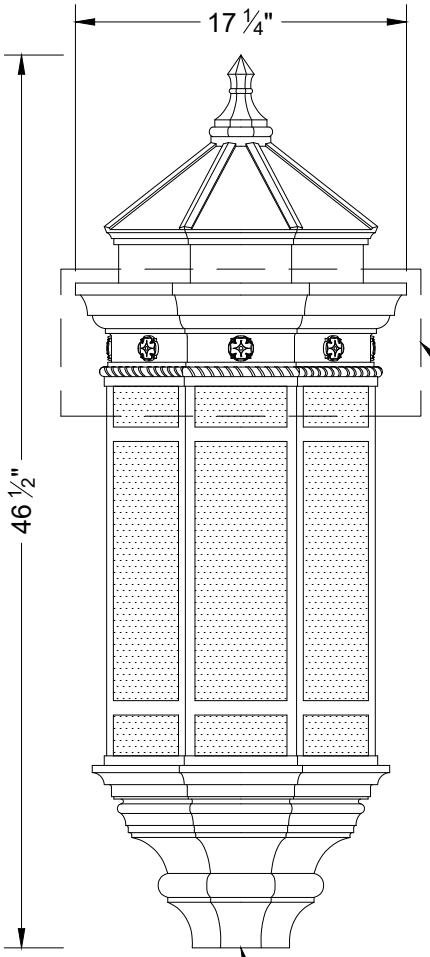
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

6' ALUMINUM BRACKET ARM, TRIPLE

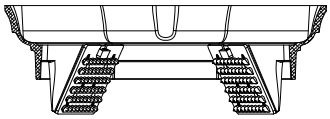
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.3.3.3



SEE DETAIL A
FOR SECTION VIEW
OF LED BOARDS



DETAIL A

GENERATION II LED BOARDS WITH
TYPE III REFRACTIVE OPTICS

NOTES:

1. WHEN INSTALLING THE FIXTURE MAKE SURE THE MARKING STICKER HOUSE SIDE OR STREET SIDE IS FACING ITS PROPER DESIGNATED DIRECTION EITHER TOWARD THE STREET OR TOWARD THE HOUSE.

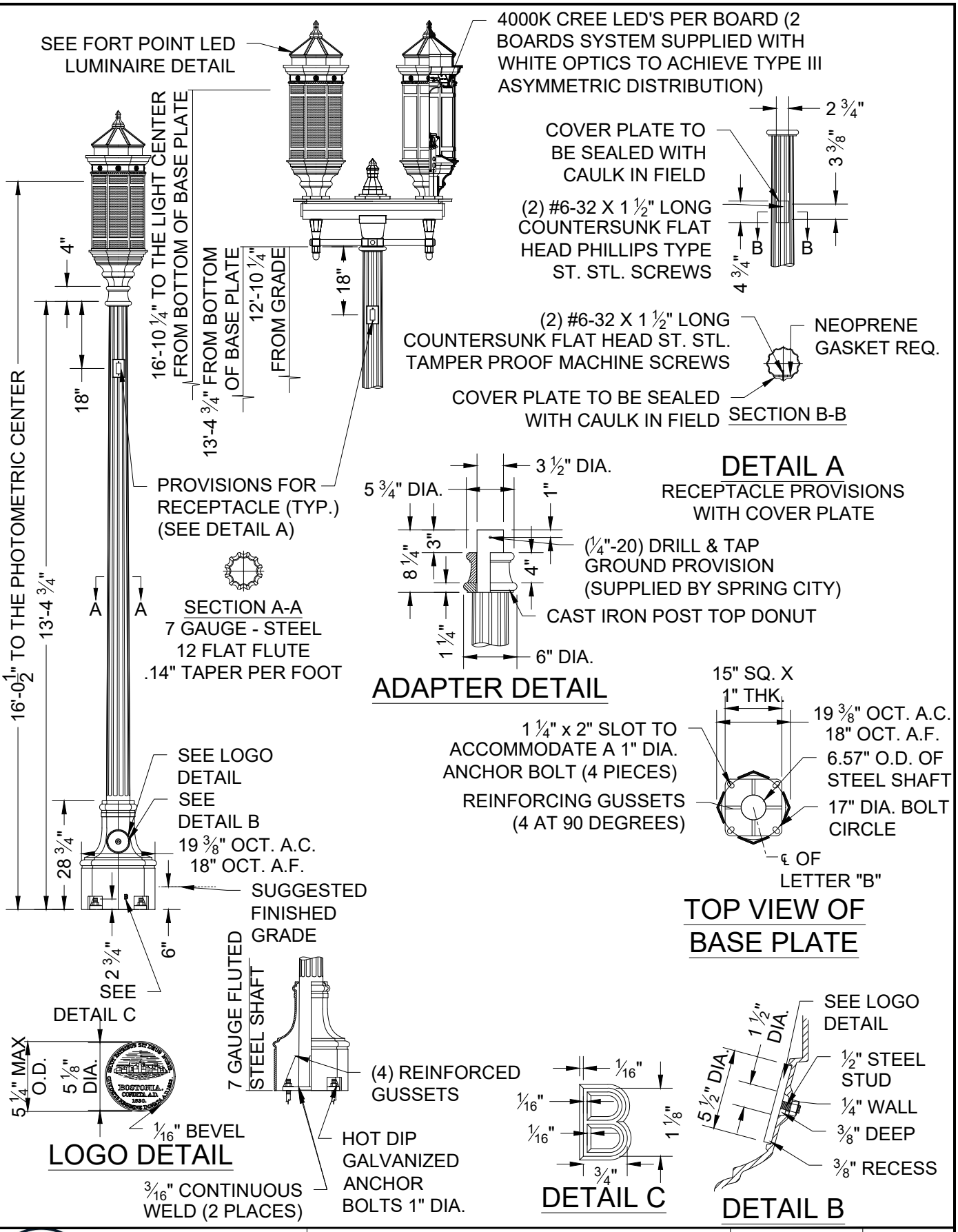
2. ALL LIGHTING ASSEMBLIES SHALL BE PER UL 1598 AND UL 8750.

ACCEPTS A 4" DIA. X 5" HIGH TENON

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

FORT POINT LED LUMINAIRE

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.4.1.1



Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

FORT POINT 13'-4" STEEL POST

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	L.4.2.1

SPEC. # ECPTL - 100 &
SPEC. # CPTL - 100

A1) ELECTRIC COLONIAL UPPER SPINNING

A2) GAS COLONIAL UPPER SPINNING

B) TOP SECTION FRAME

C1) PURE WHITE OPAL GLASS

C2) CLEAR GLASS

D) SIGN GLASS SECTION FRAME

E1) HAMMERED AMBER CATHEDRAL GLASS

E2) CLEAR GLASS

F) FRAME FLAT STOCK

G) FRAME SUPPORT RODS

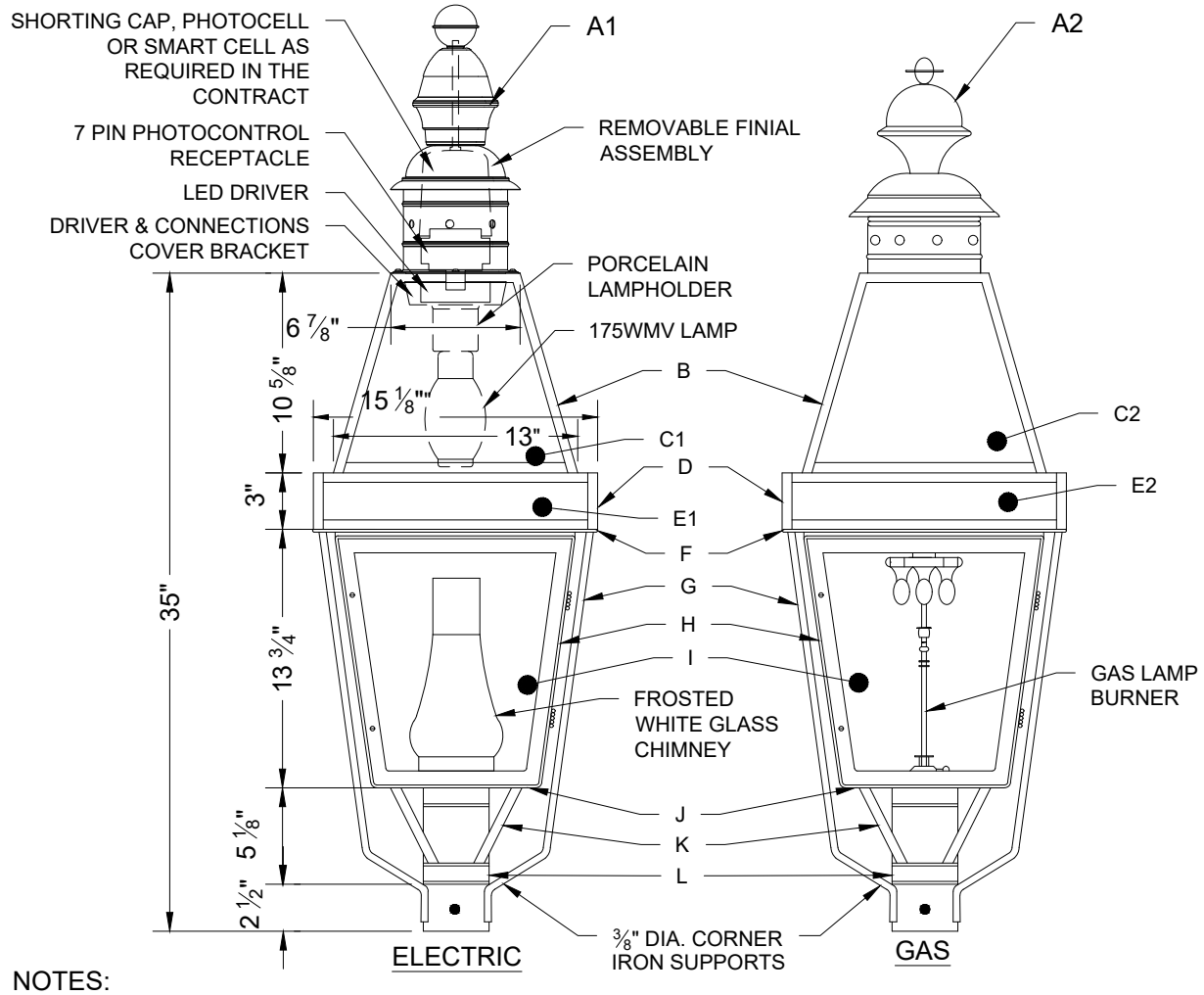
H) BOTTOM SECTION FRAME HINGED DOOR FRAME

I) CLEAR GLASS

J) BOTTOM PLATE

K) BOTTOM PLATE SUPPORT BARS

L) BOTTOM SUPPORT SECTION



NOTES:

DOOR SHALL HAVE HINGES AND CORROSION RESISTANT SCREWS.

½" BORDER OF COPPER AROUND ALL GLASS EXCEPT ON DOOR. IT SHALL HAVE 1" COPPER BORDER WITH ½" BORDER ABOVE DOOR.

ALL ELECTRIFIED LIGHTING ASSEMBLIES SHALL BE PER UL 1598 AND UL 8750 LISTED. METAL HALIDE BALLAST SHALL MEET THE REQUIREMENTS OF ANSI CODE M57.

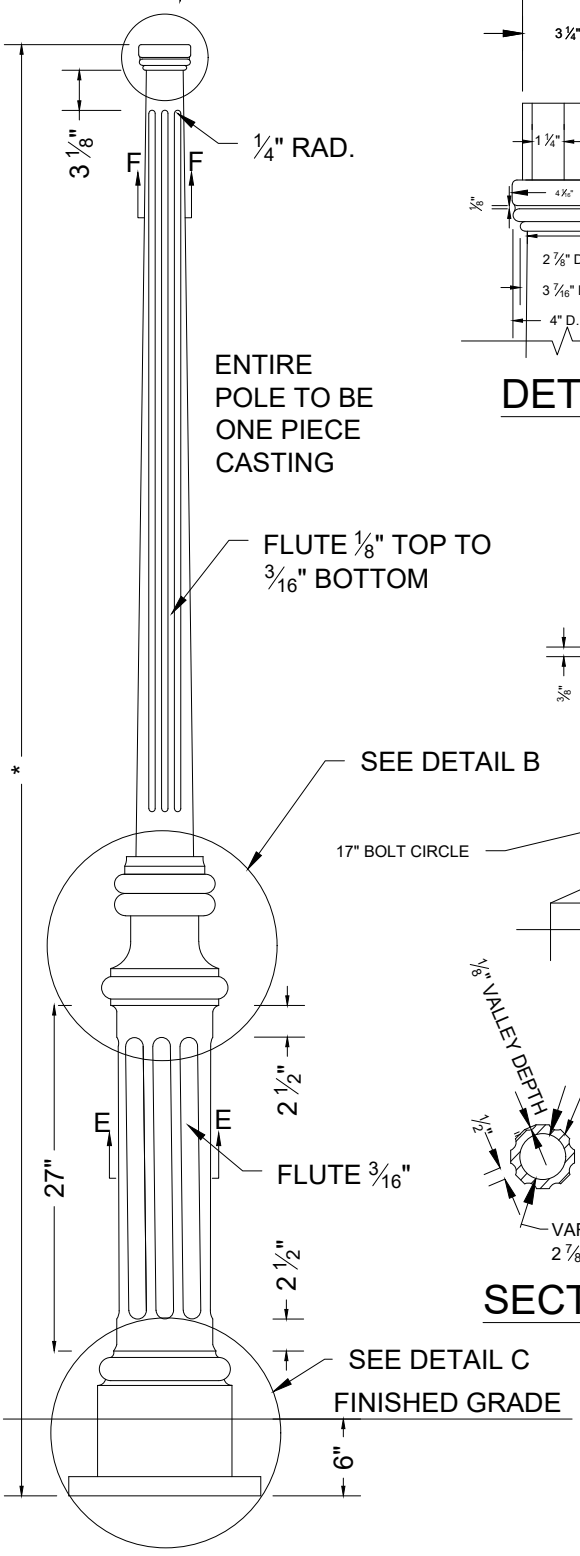
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

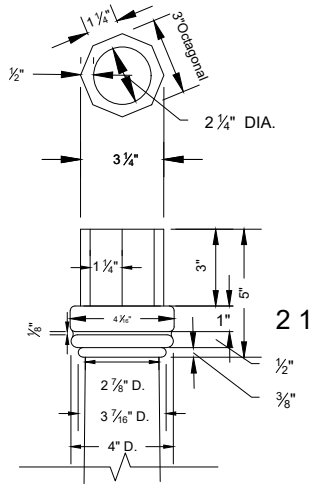
ELECTRIFIED & GAS COLONIAL LANTERNS

DATE OF ISSUE: 10/06/2026

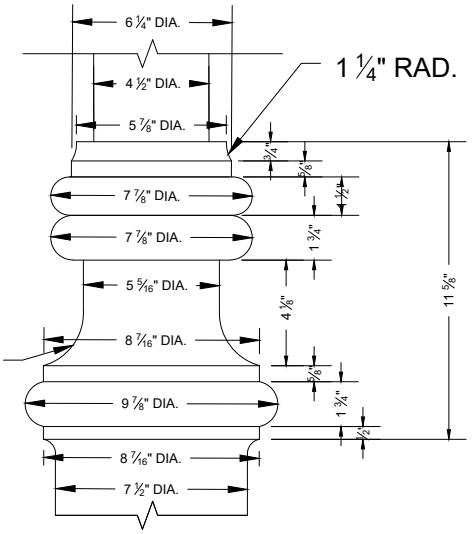
SCALE: N.T.S.

DETAIL NO. L.5.1

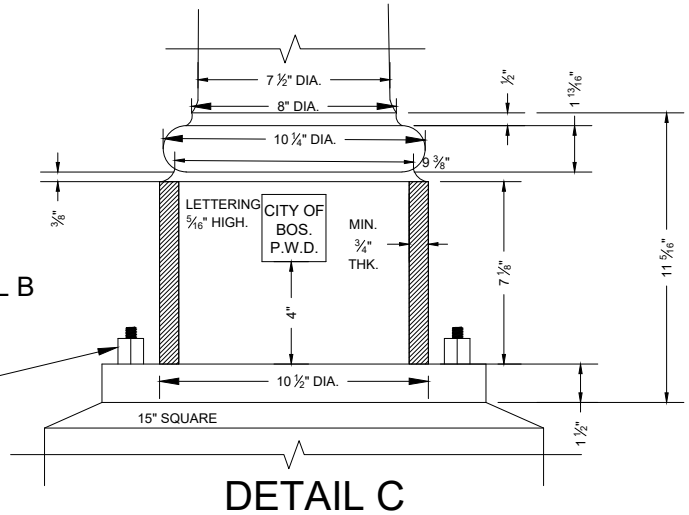




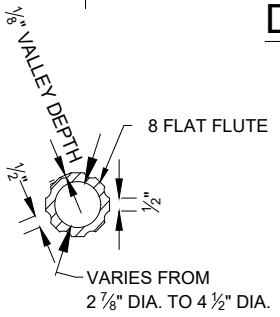
DETAIL A



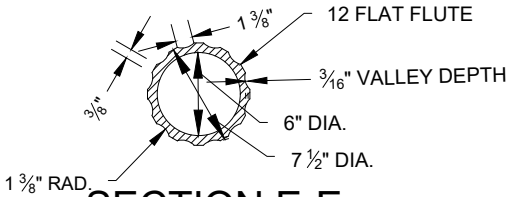
DETAIL B



DETAIL C



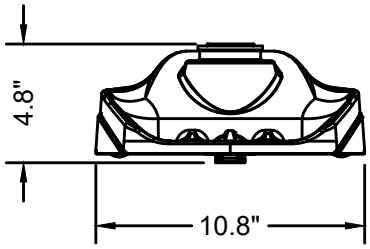
SECTION F-F



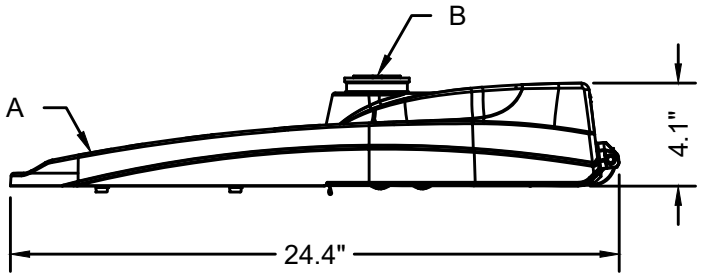
SECTION E-E

(*) AS NOTE: POLE HEIGHT AS PER SCHEDULE BELOW:
9'-5 3/8" OVERALL POST HEIGHT
11'-0" OVERALL POST HEIGHT

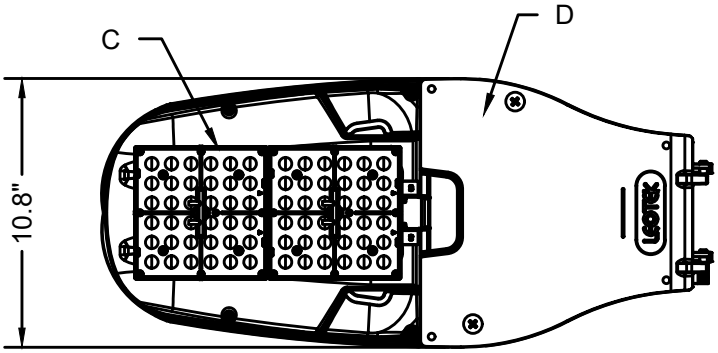
Public Works Department **Street Lighting Division** 1 CITY HALL SQUARE, ROOM 714 BOSTON, MA 02201 (617) 635-5810	HANCOCK 9'-5" GAS LAMP POST	**DATE OF ISSUE:** 10/06/2026 **SCALE: N.T.S.**	**DETAIL NO.** L.6.1



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

NOTES:

A) CORROSION-RESISTANT ALUMINUM SINGLE-CAST HOUSING
B) 7 PIN PHOTOCONTROL RECEPTACLE COMPATIBLE WITH SHORTING CAP, WIRELESS CONTROL NODE, SMART CELL OR STANDARD PHOTOCELL AS REQUIRED IN THE CONTRACT
C) IMPACT AND UV RESISTANT OPTICAL POLYCARBONATE 100,000-HR RATED (IP66 RATED) INTEGRATED LED
D) POWER DOOR HOUSING POWER SUPPLY (100,000-HR RATED) AND SURGE PROTECTOR MEETING ENHANCED (10kV/5kA) ANSI C136.2-2015 SPECIFICATION

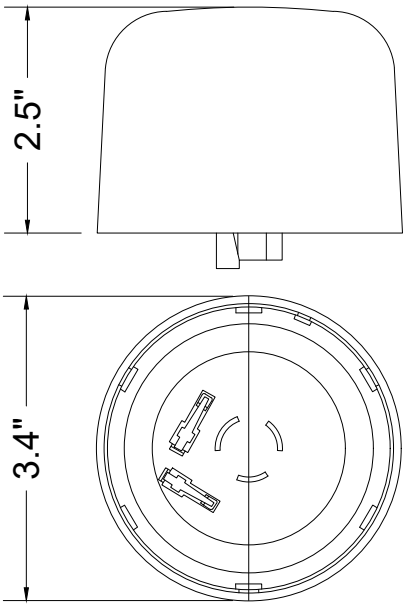
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

COBRA LED LUMINAIRE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.7.1



NOTES:

A) DIMENSIONS: 2.5" X 3.4"
B) WEIGHT: 250g
C) COLOR/HOUSING: TRANSLUCENT BLACK
D) HOUSING MATERIAL: UV STABILIZED, OUTDOOR RATED AND FLAME RESISTANT POLYMER
E) ENCLOSURE SEALING: IP66
F) OPERATING TEMPERATURE RANGE: -40C TO +70C
G) VOLTAGE RANGE: 120-480 V
H) SURGE RATING: 20 kV/10 kA TYPE C
I) AVERAGE POWER CONSUMPTION: 1W TYPICAL
J) IMPACT RATING: IK08
K) SECURITY: AES 128/256 ENCRYPTION TLS 1.2 DEDICATED SECURITY CONTROLLER COMMON CRITERIA CERTIFIED EAL6+ (HIGH)
SECURE MANAGEMENT OF CERTIFICATES
SUPPORTS DEVICE AUTHENTICATION
L) LAMP ON/OFF: PHOTOCELL CONTROL, AUTOMATED AND ASTRONOMICAL SCHEDULING W/ ADJUSTABLE OFFSETS
M) DIMMING CONTROL: AUTO SELECT - 0-10V, DALI, DALI2, DALI D4i

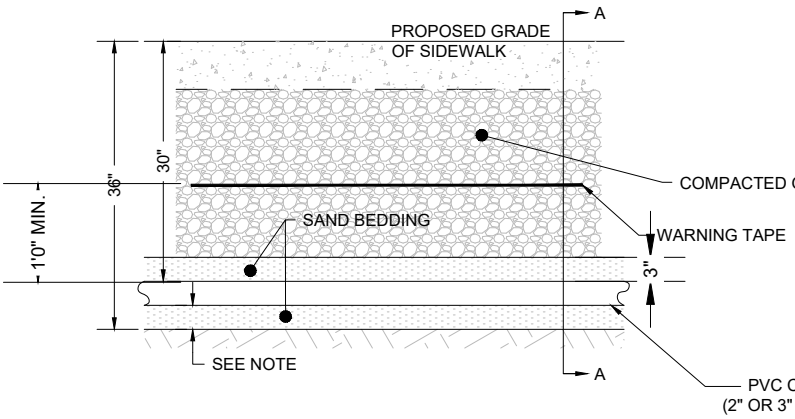
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PHOTOCELL

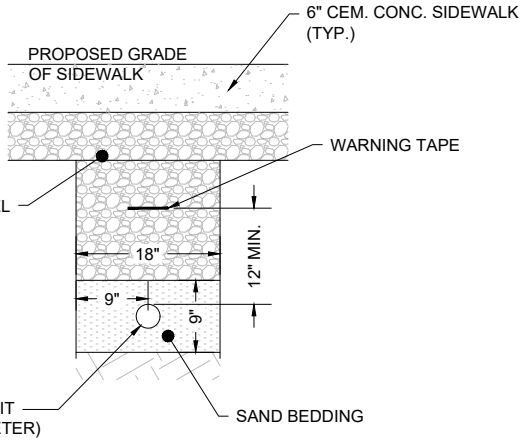
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. L.8.1



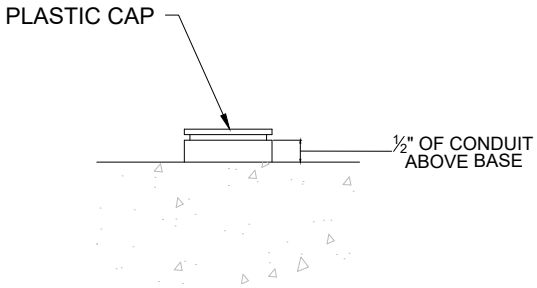
DETAIL A



SECTION A-A

RIGID PVC CONDUIT INSTALLATION IN TRENCH (TYP.)

NOTE:
3" OF SAND BELOW 3" CONDUIT
4" OF SAND BELOW 2" CONDUIT



DETAIL B

LIGHT BASE CAP

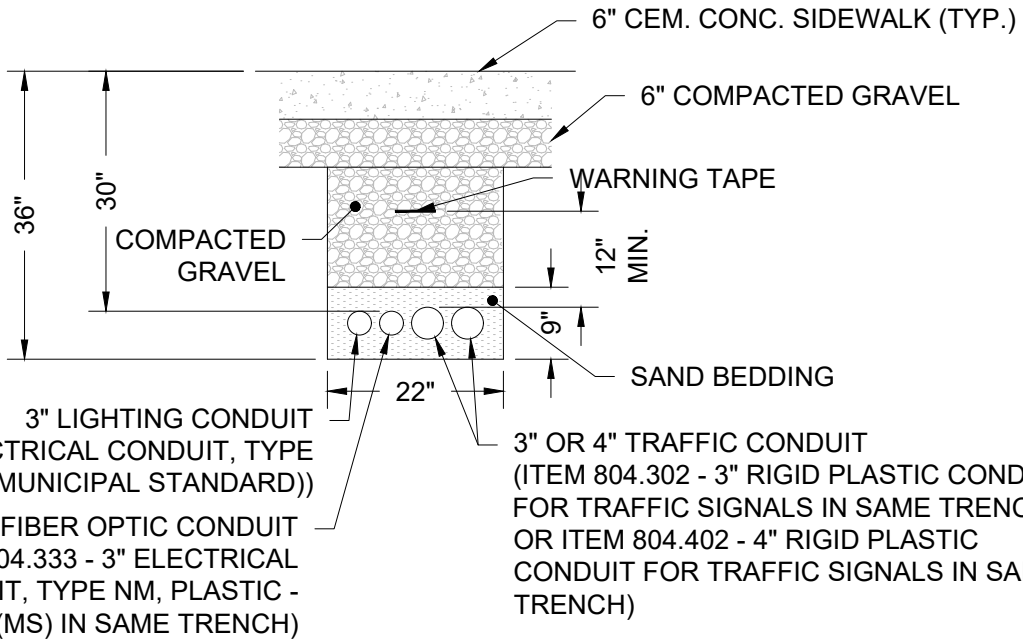
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

SINGLE CONDUIT TRENCH IN SIDEWALK

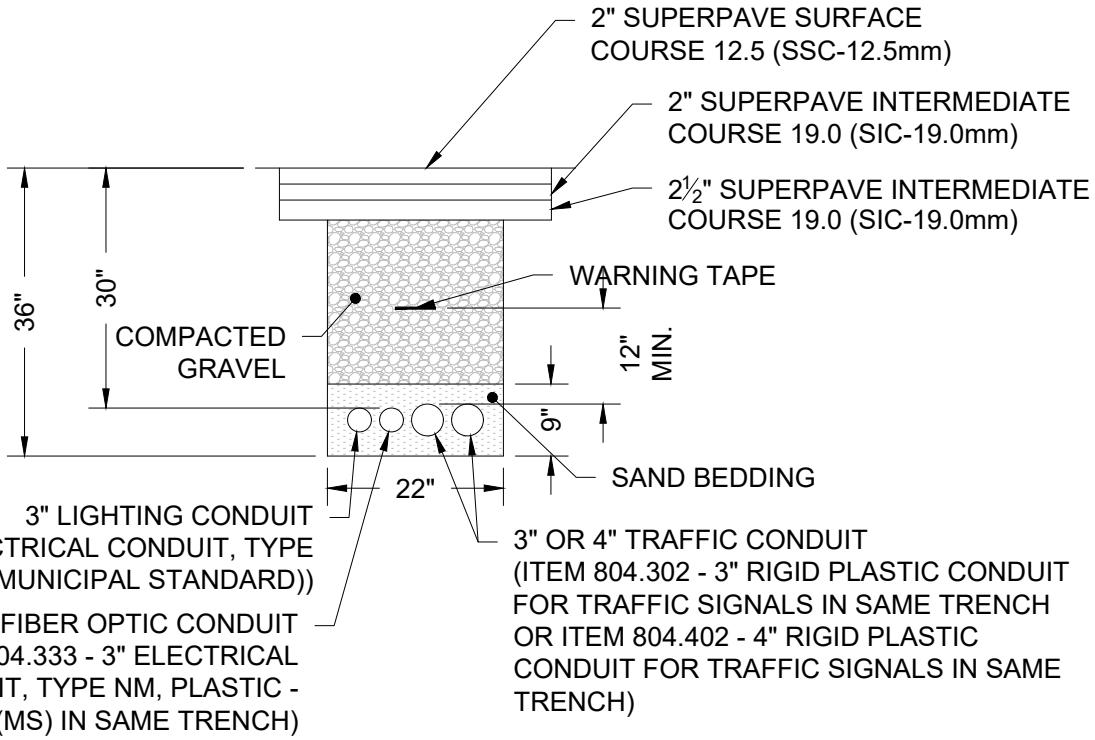
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.1.1



CONDUIT UNDER SIDEWALK

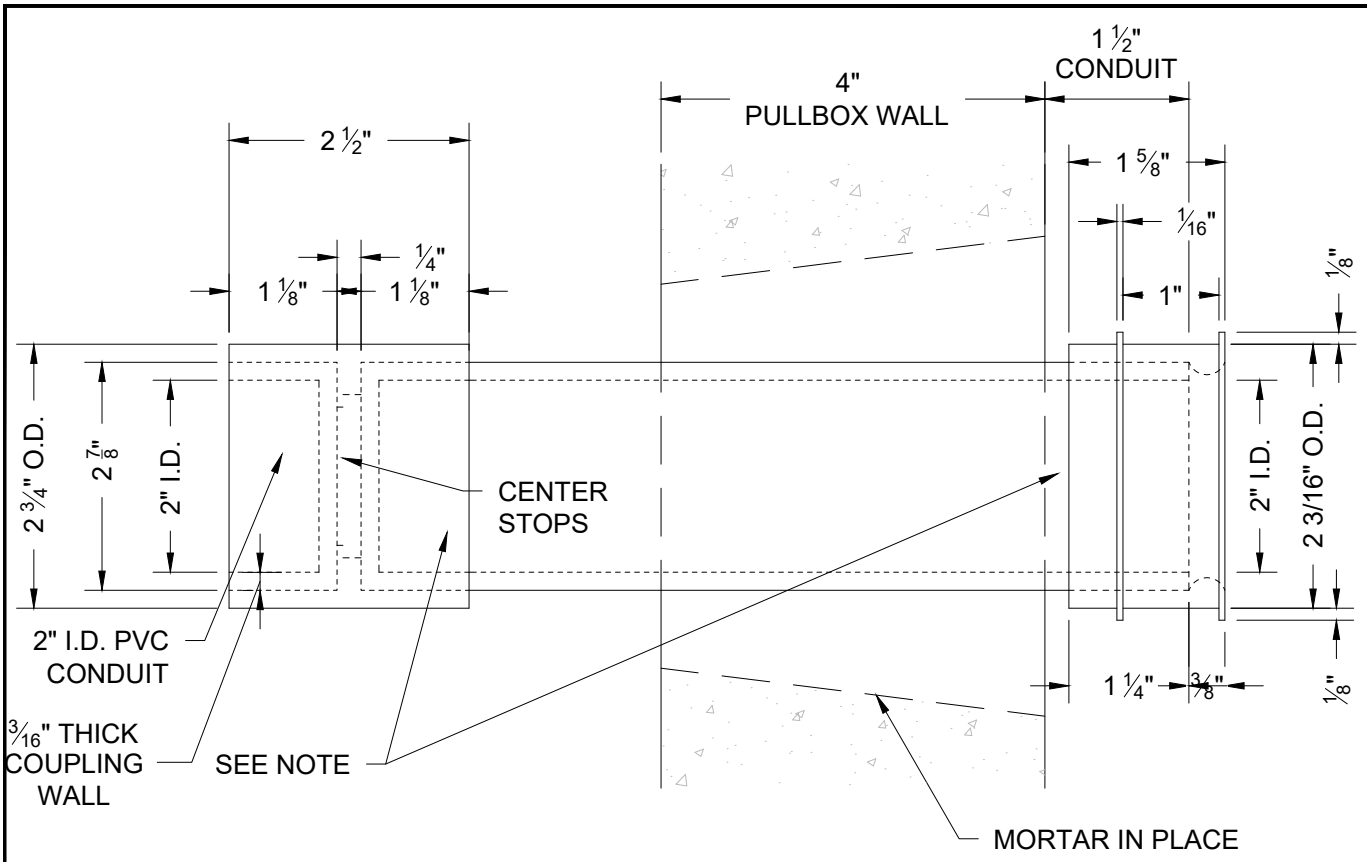


CONDUIT UNDER ROADWAY

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

MULTIPLE CONDUIT TRENCH SIDEWALK AND ROADWAY

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.1.2



2" COUPLING AND END BELL

NOTES:

TEST FIT THE CONDUIT AND THE FITTING. IF THE CONDUIT WILL NOT ENTER THE FITTING WITHOUT FORCE, REDUCE THE DIAMETER BY SANDING OR FILLING. TAKE CARE NOT TO GOUGE OR FLATTEN THE CONDUIT END. APPLY PVC SOLVENT, CEMENT IN A THICK UNIFORM COATING TO THE OUTER SURFACE OF THE CONDUIT END AND A THIN COATING TO THE INNER SURFACE OF THE FITTING. INSERT THE CONDUIT END INTO THE FITTING UNTIL IT BOTTOMS OUT AT THE INTERIOR SHOULDER. TURN THE CONDUIT ONE QUARTER (1/4) TURN DURING THE INSERTION AND HOLD THE CONDUIT IN PLACE FOR ONE (1) MINUTE.

DIMENSIONAL DATA PROVIDED BY THE DETAILS FOR VARIOUS PVC FITTINGS WERE OBTAINED FROM U.L. LISTED EQUIPMENT AS SPECIFIED IN THE PARTS LISTING, AND SPECIFIED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THESE DETAILS.

THIS DRAWING IS FOR GENERAL PURPOSE ONLY; NOT FOR MANUFACTURING PURPOSES.

AT CENTER STOPS, COUPLING I.D. 2-7/16" MINIMUM.

PARTS LISTING:

COUPLINGS:
- CARLON E940J
- ROBINTECH 1329 020
- R.&G. SLOANE 2001-020

BELL ENDS:
- CARLON E997J
- ROBINTECH 1379 0202
- R.&G. SLOANE 2150-020

PVC SWEEP 90:
- 18" RADIUS
- CARLON E791J
- ROBINTECH 1315 218
- R.&G. SLOANE 2055-020

PLASTIC CAP:
- CARLON P258J
- ROBINTECH 1349 020

HEAVY BODY SOLVENT CEMENT:
- CARLON 0082-927
- R.&G. SLOANE 705/916-020

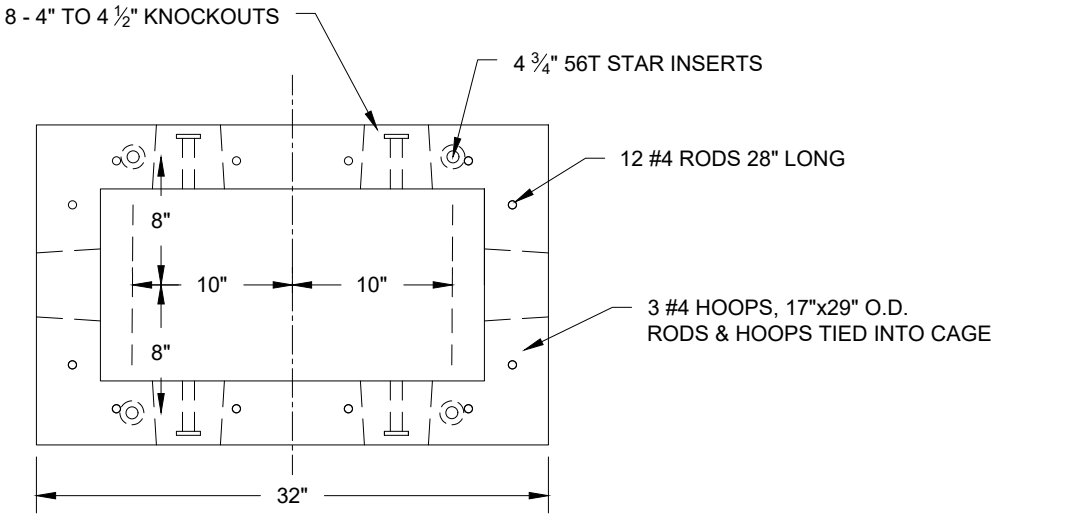
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

2" COUPLING AND END BELL

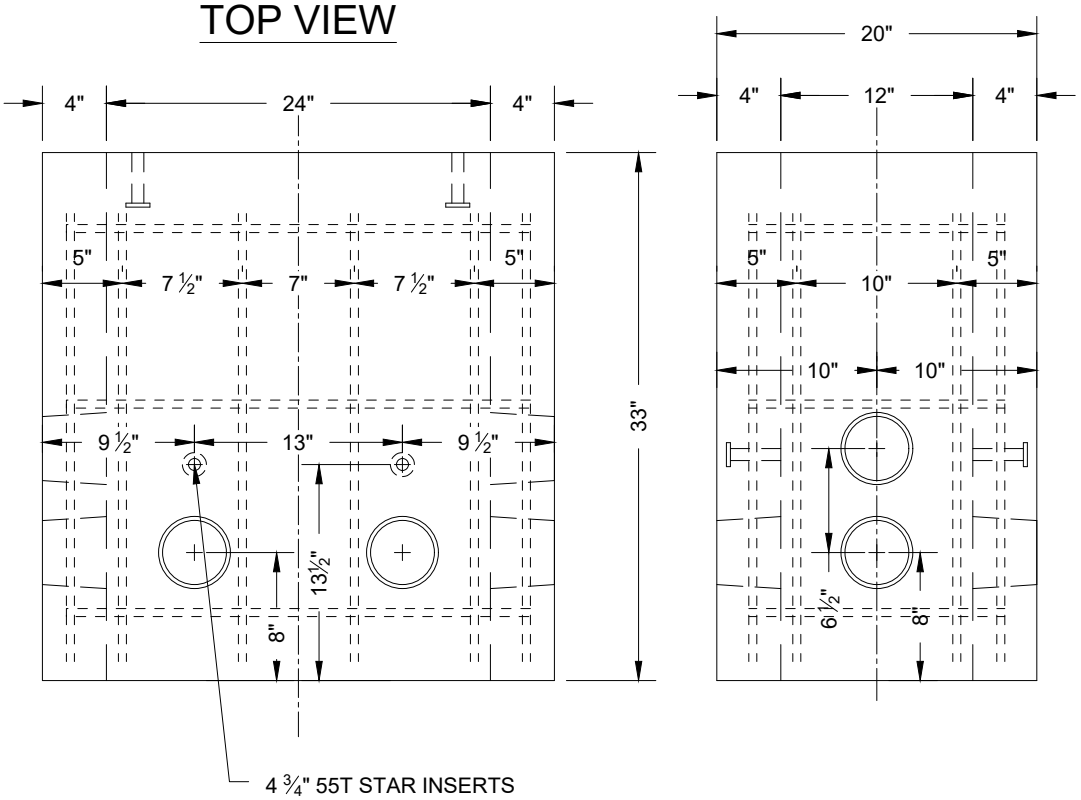
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.1.3



TOP VIEW



FRONT VIEW

SIDE VIEW

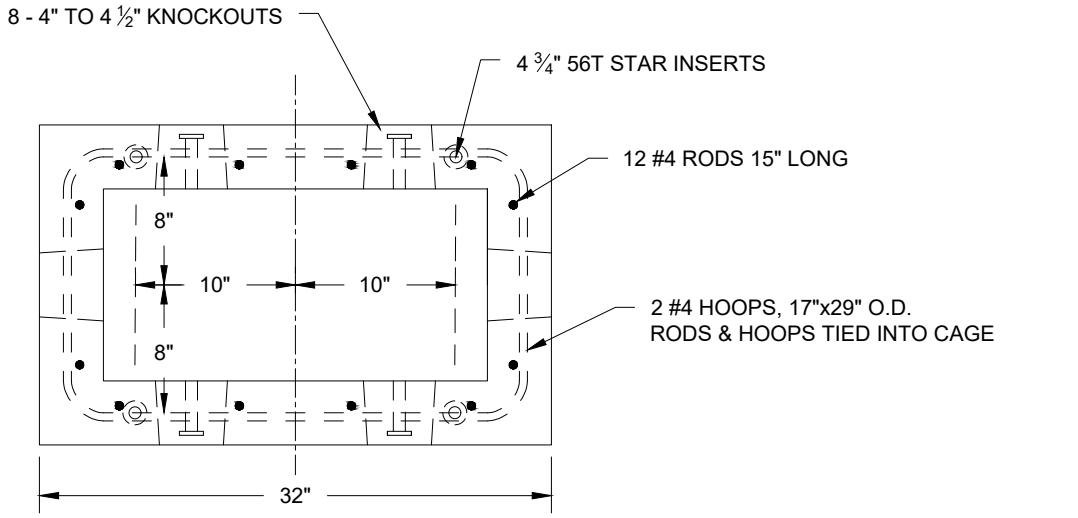
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE PULLBOX

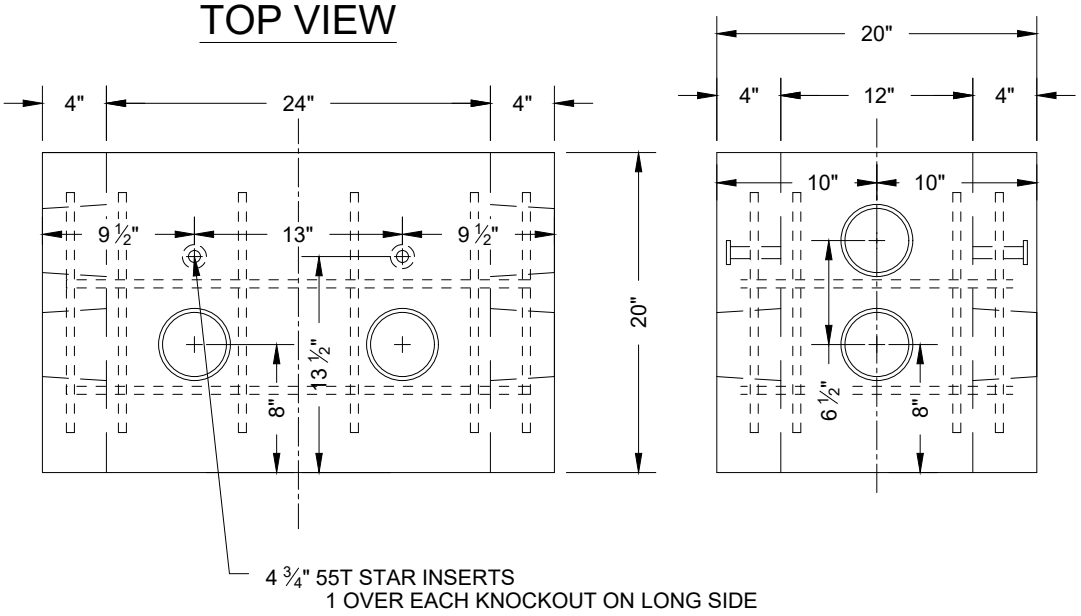
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.2.1



TOP VIEW



FRONT VIEW

SIDE VIEW

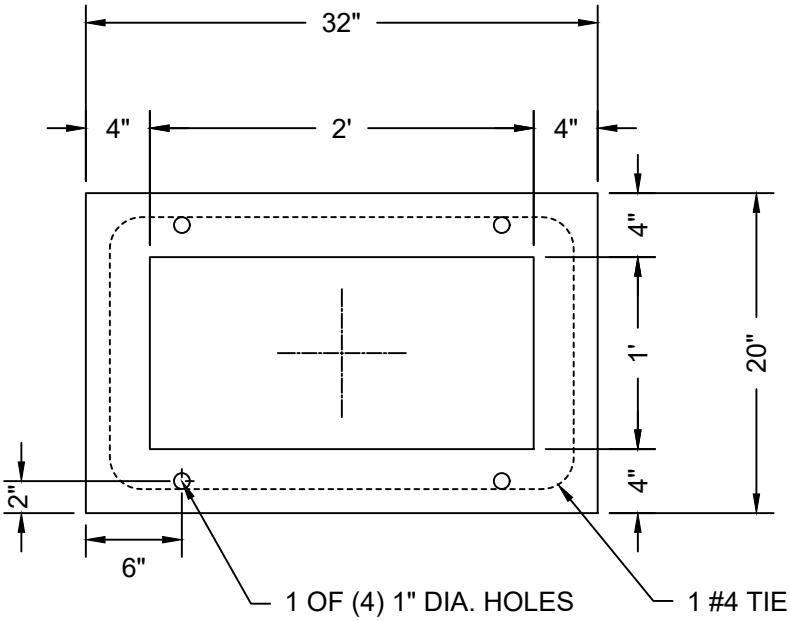
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE PULLBOX SHALLOW DEPTH

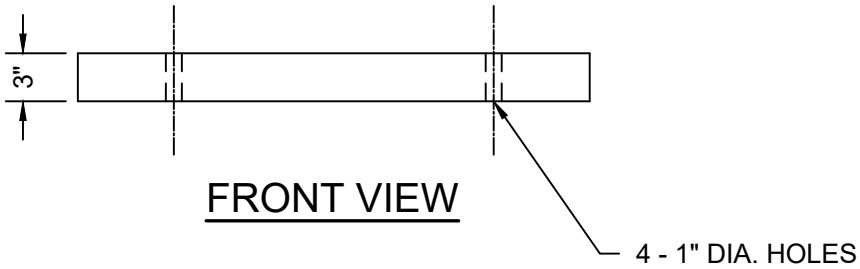
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.2.2



TOP VIEW



FRONT VIEW

NOTE:
4000 PSI CONCRETE ¾" AGGREGATE PER SPECIFICATIONS
WEIGHT: 90 LBS +/-

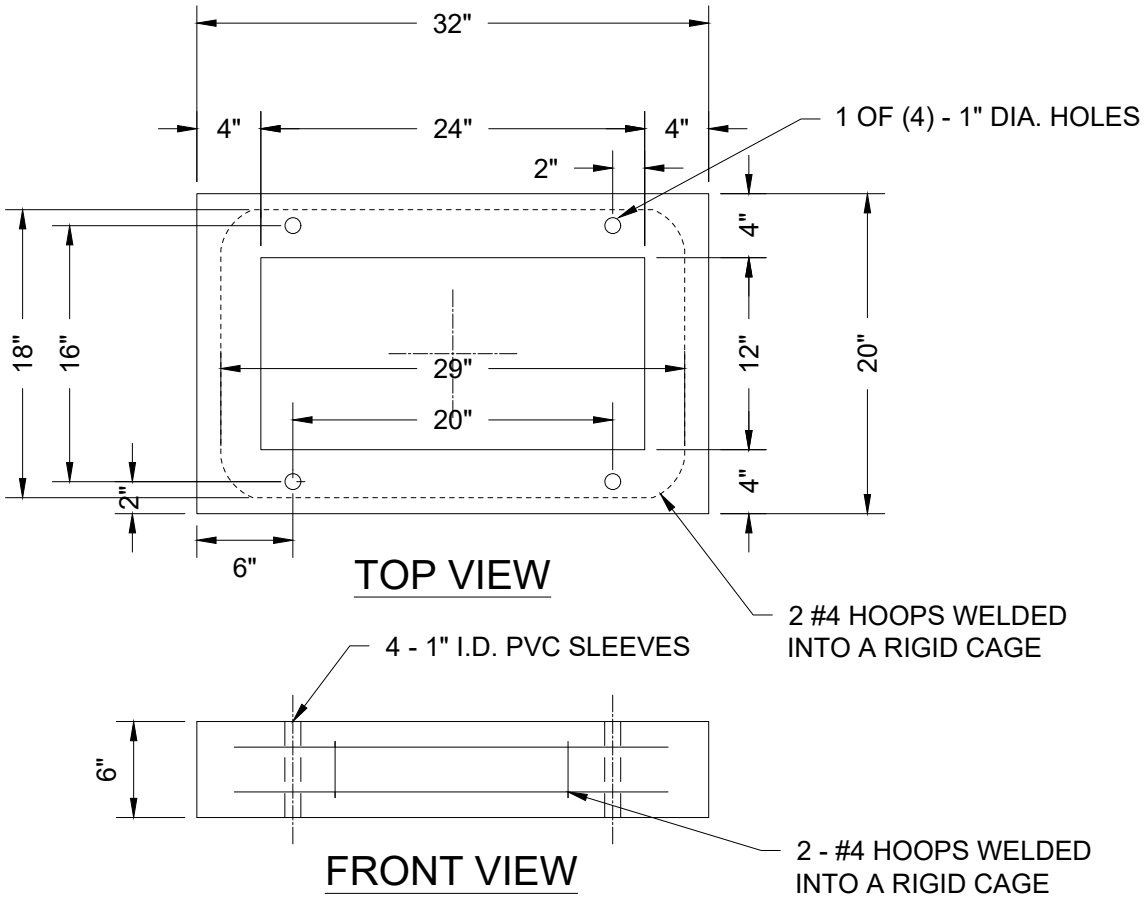
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE PULLBOX EXTENDER - 3"

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.3.1



TO BE USED IN MULTIPLES OF 6" AND BOLTED TO BOX WITH ¾"-10 NC-2A GALVANIZED THREADED ROD AND HEAVY GALVANIZED NUT. EXTENDER SHALL BE CONSTRUCTED WITH A CONCRETE MIXTURE WITH A MINIMUM OF THREE THOUSAND (3000) POUNDS COMPRESSIVE STRENGTH AT TWENTY-EIGHT (28) DAYS.

THE MIX SHALL BE PROPORTIONED OF ONE HUNDRED AND TWELVE (112) POUNDS OF CEMENT, TWO HUNDRED AND FORTY-ONE (241) POUNDS OF SAND, AND TWO HUNDRED AND SEVENTY-TWO (272) POUNDS OF STONE. ADD SEVEN (7) GALLONS OF WATER TO GIVE A SLUMP OF FOUR (4) INCHES AS INDICATED BY THE STANDARD "SLUMP CONE: TEST.

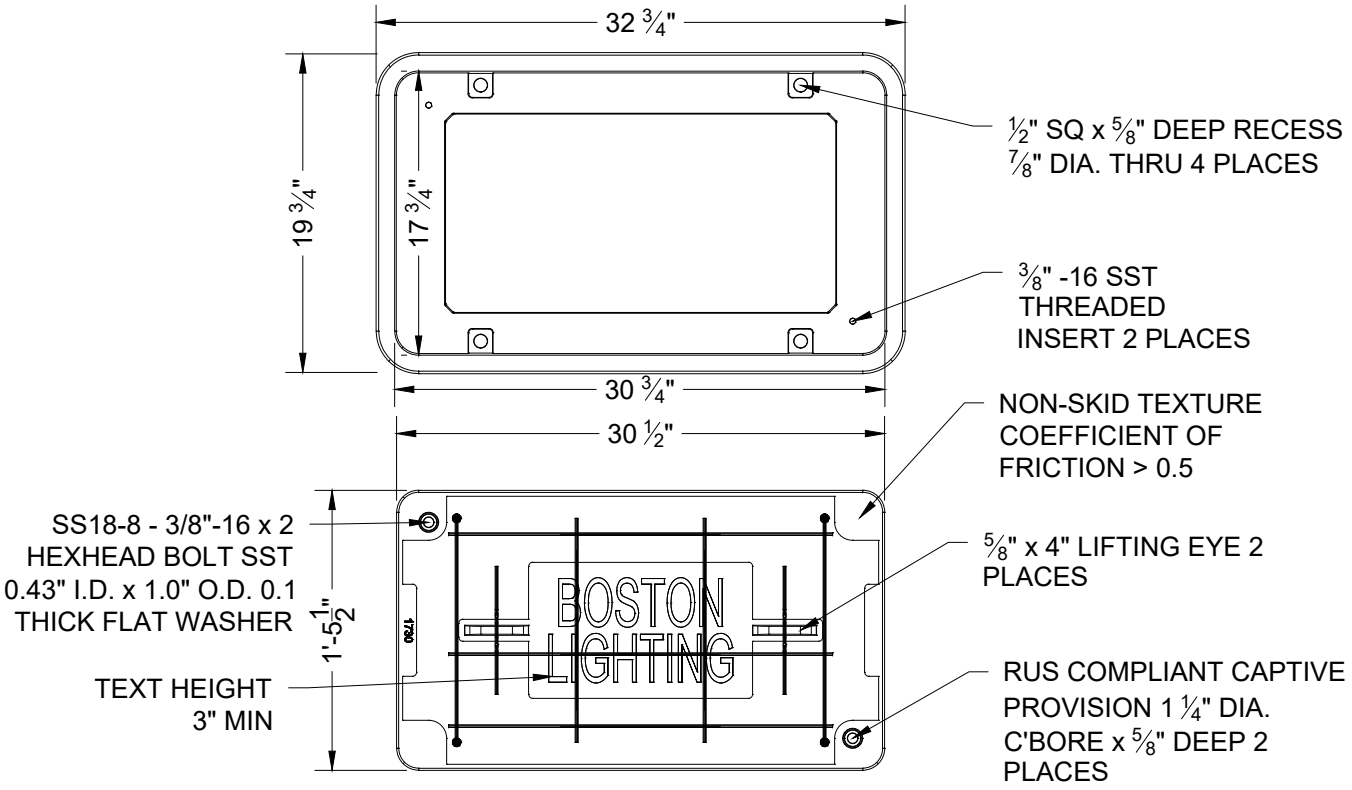
AN AIR ENTRAINING AGENT, CONFORMING TO THE AASHO-M154 SHALL BE ADDED AT THE MIXER TO YIELD AN AIR CONTENT TO THE CONCRETE OF NOT LESS THAN 3% AND NOT MORE THAN 6% BY VOLUME.

NOTE:
CONSTRUCTION METHODS MUST CORRESPOND TO METHODS OUTLINED IN SPEC. # PBPCCRD-200, PRECAST PULLBOX, EXCEPT WHERE NOTED

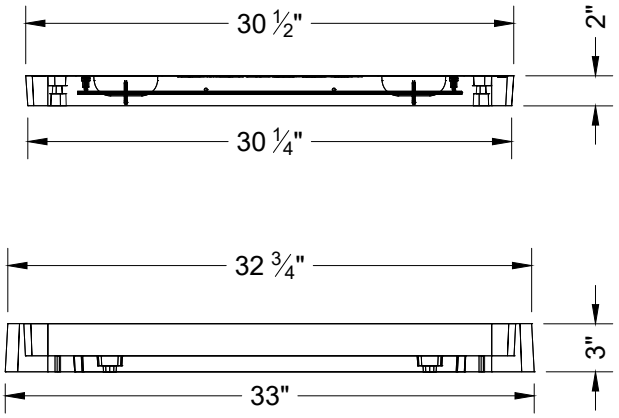
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE PULLBOX EXTENDER - 6"

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.3.2



PLAN VIEW



ELEVATION VIEW

NOTES:

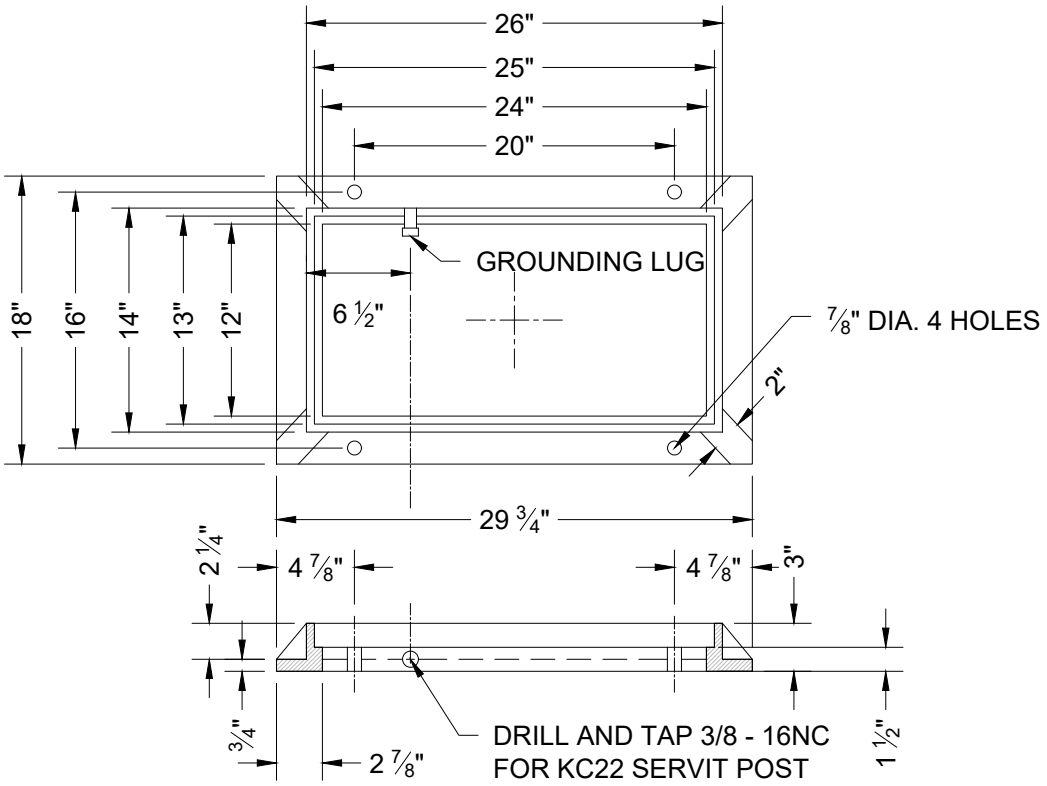
1. LOGO SHALL BE BOSTON LIGHTING CAST INTO COVER. LETTERING SHALL BE 3 INCHES IN HEIGHT CENTERED BETWEEN LIFT SLOTS.
2. THIS ASSEMBLY IS RATED FOR A STATIC DESIGN LOAD OF 15,000 LB. OVER A 10" X 10" AREA AND MUST PASS A MIN. STATIC TEST LOAD OF 22,568 LB.
3. FURNISHED W/ (4) ¾"-10 UNC X 2" LONG AND (4) ¾"-10 UNC X 6" LONG SOCKET FLAT HEAD CAP SCREWS.
4. THIS DRAWING IS FOR GENERAL PURPOSE ONLY NOT FOR MANUFACTURING PURPOSES.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

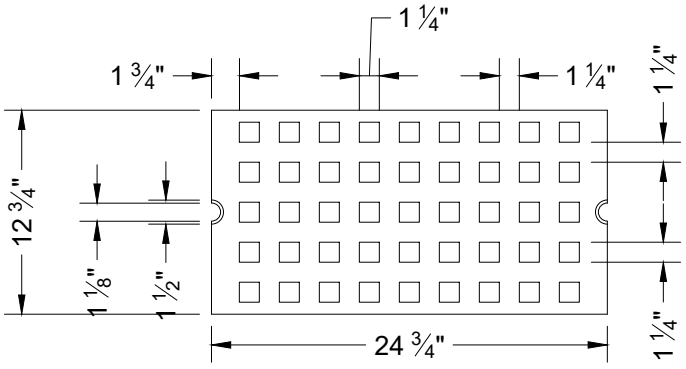
COMPOSITE CONCRETE PULLBOX FRAME AND COVER

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.4.1

FRAME TOP VIEW

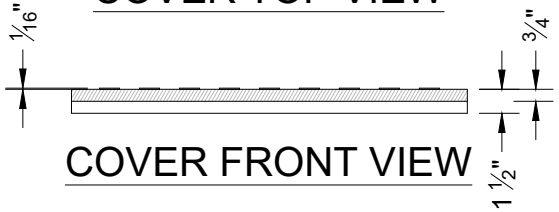


FRAME FRONT VIEW



SAFETY TREAD OR
DIAMOND SURFACE
DESIGN

COVER TOP VIEW

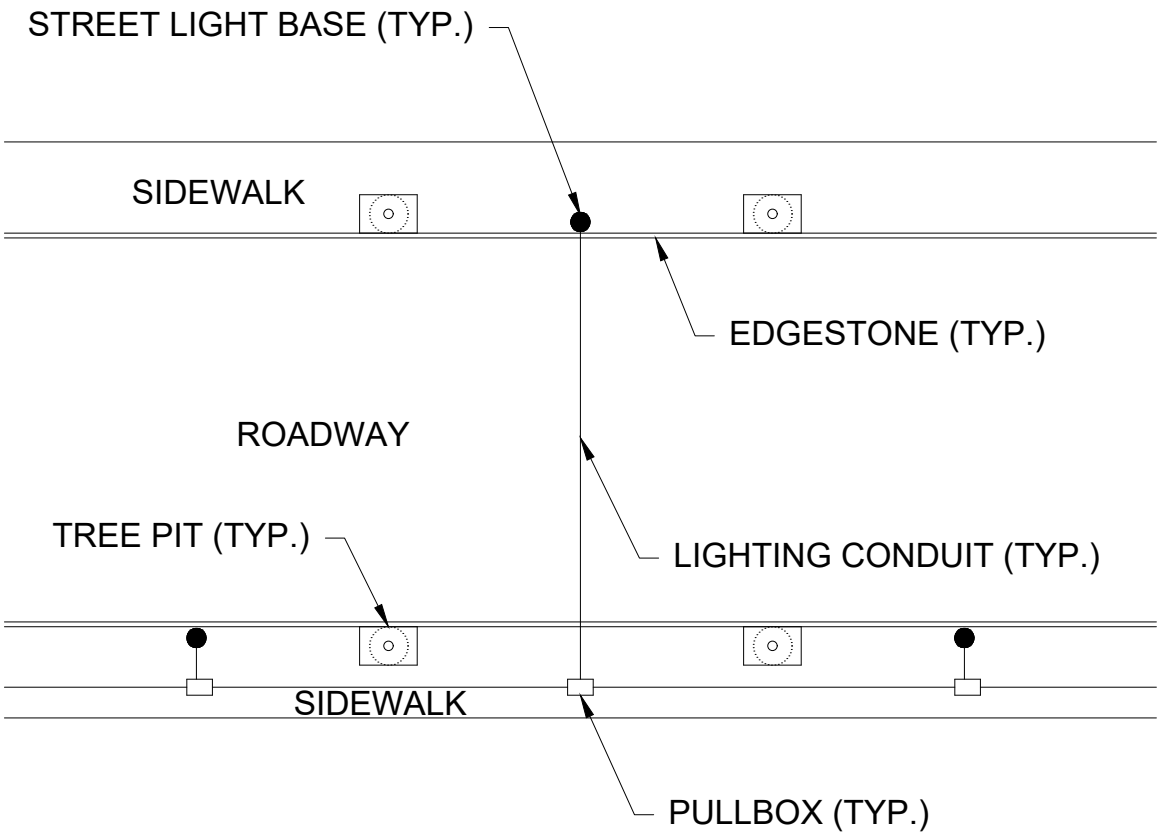


COVER FRONT VIEW

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CAST IRON FRAME AND COVER FOR ROADWAY PULLBOX

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.4.2



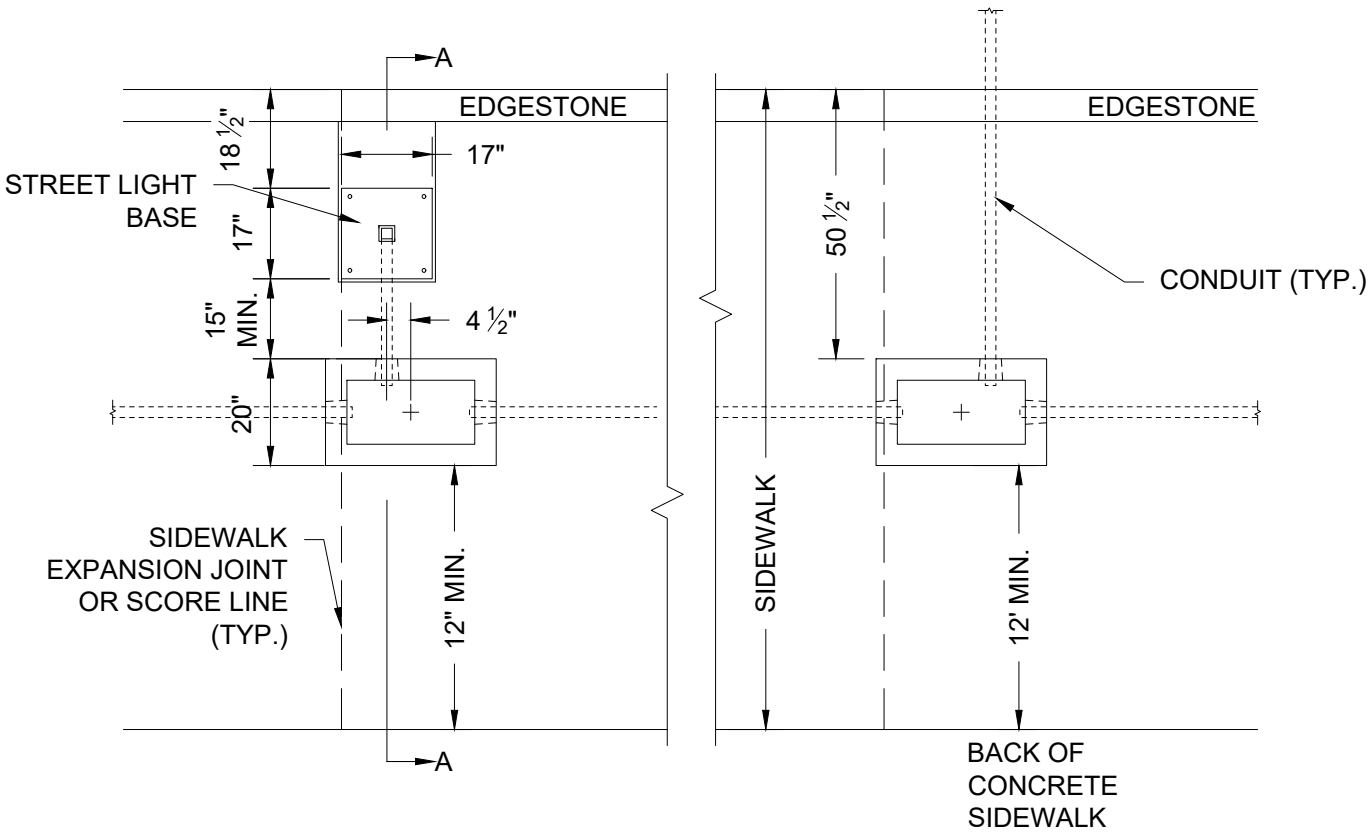
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

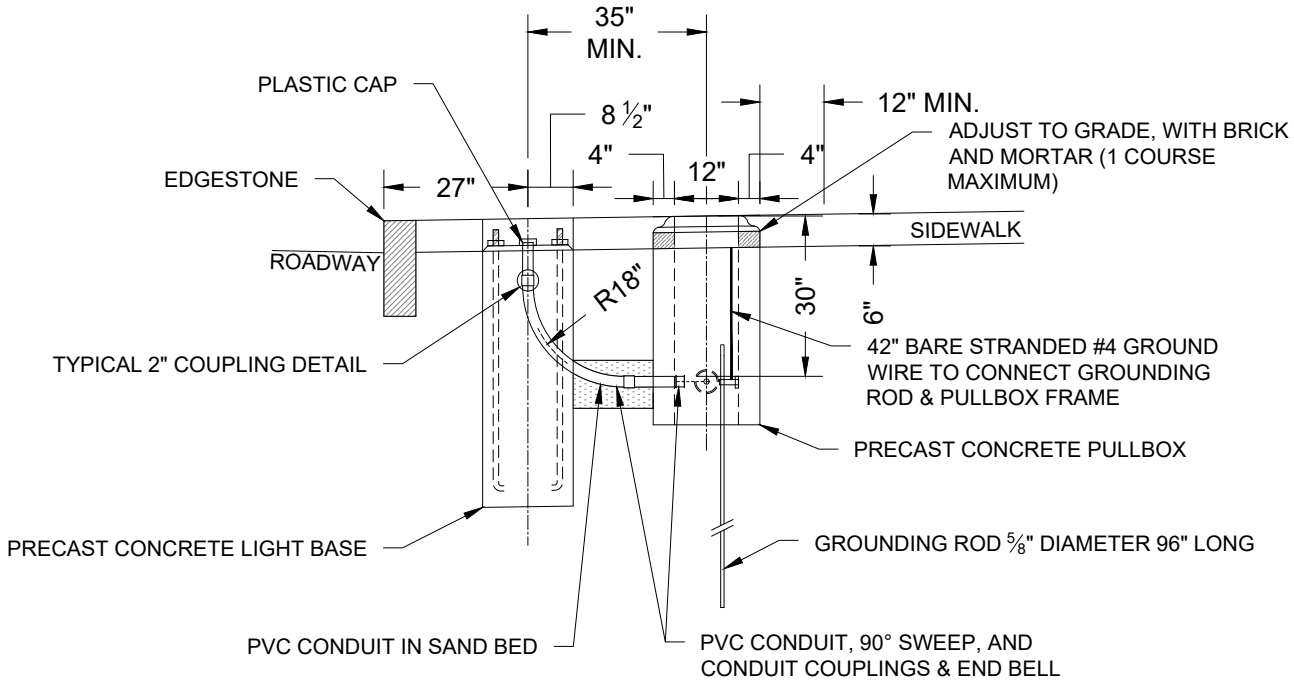
LOCATION PLAN
PULLBOXES IN SIDEWALK AREA WITH TREE PITS

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.5.1



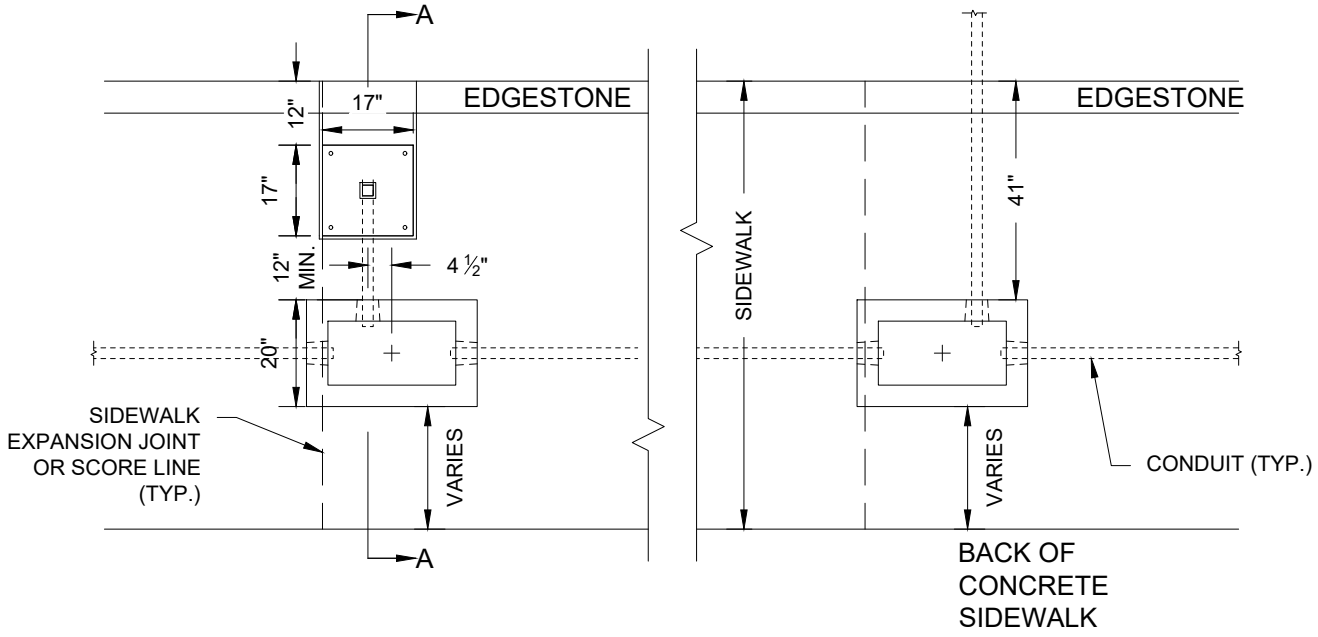


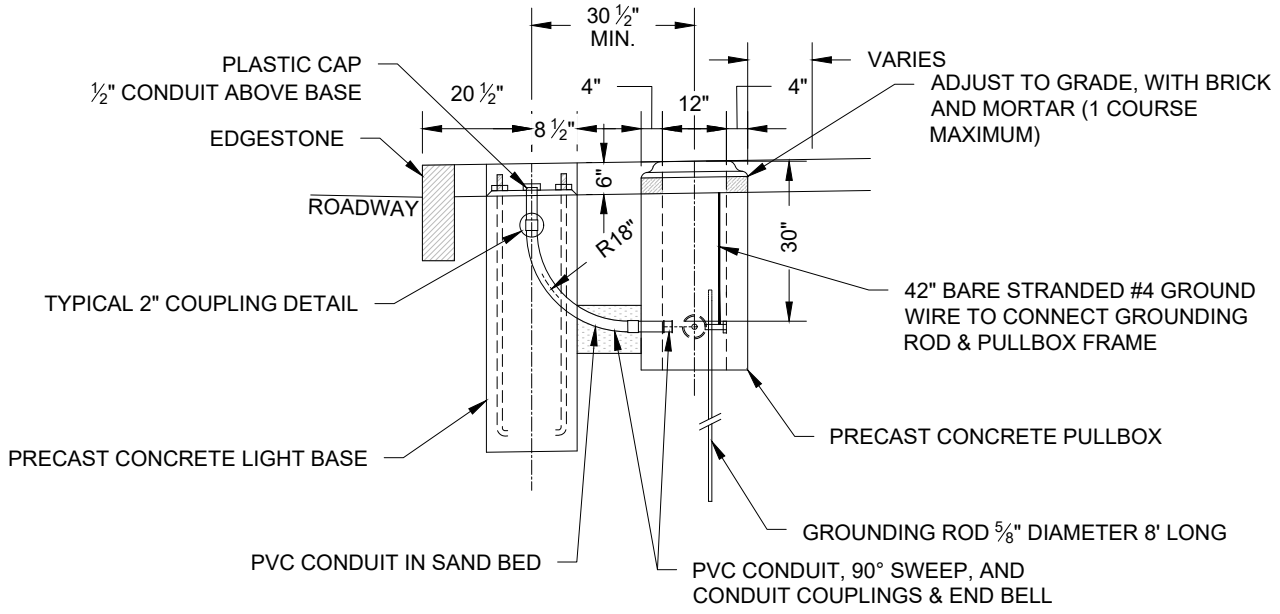
SECTION A-A

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN SIDEWALK AREA WITH TREES (SIDEWALK 7'-0" & GREATER)

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.5.2



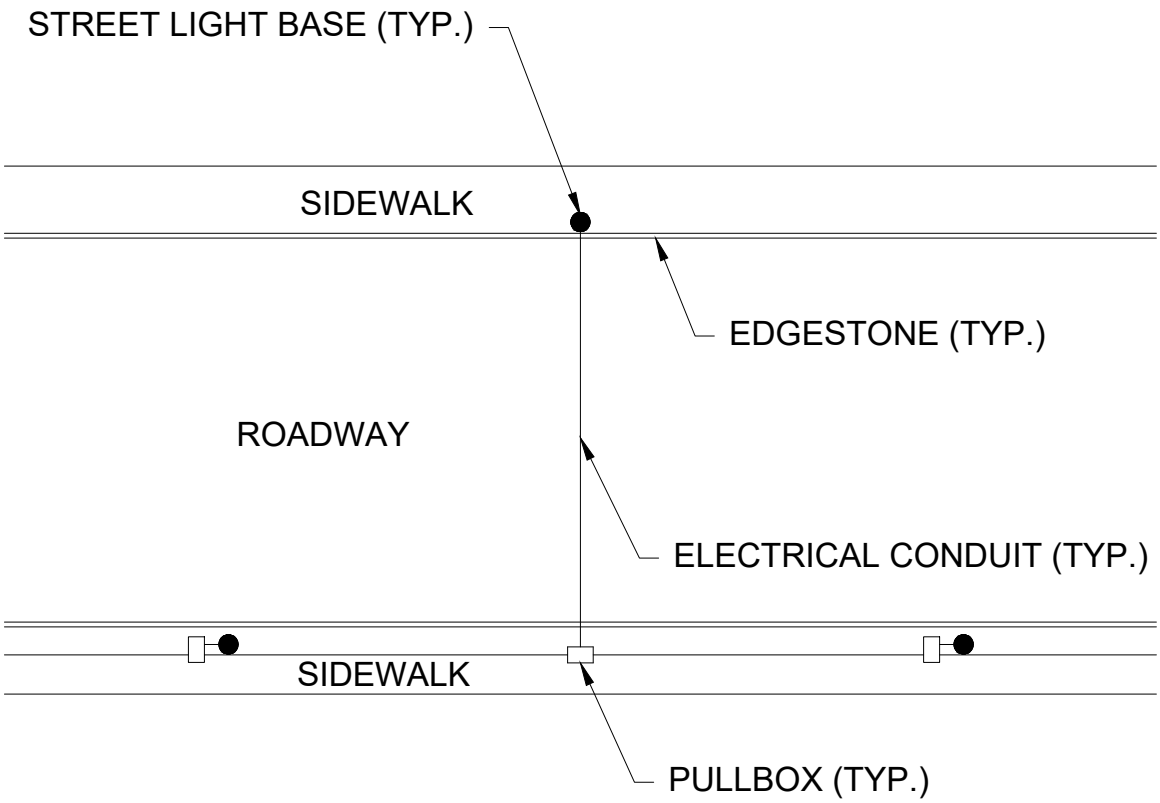


SECTION A-A

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN SIDEWALK AREA WITH TREES (SIDEWALK LESS THAN 7'-0")

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.5.3



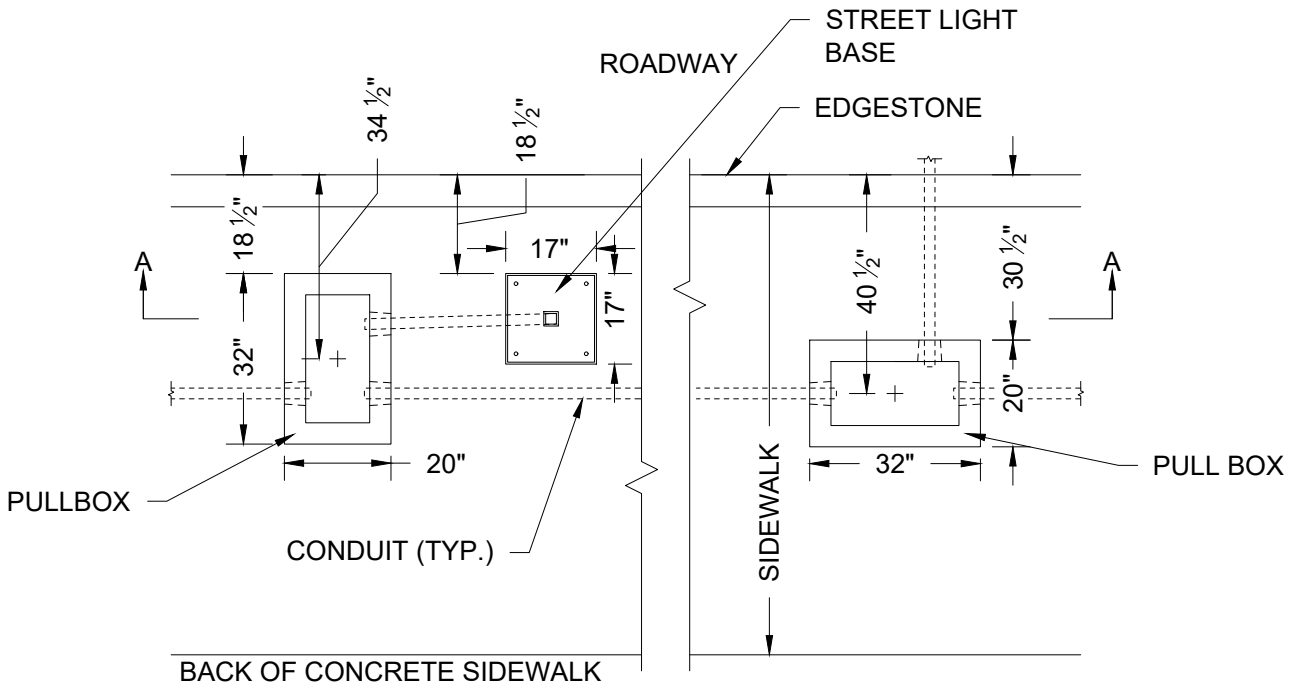
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

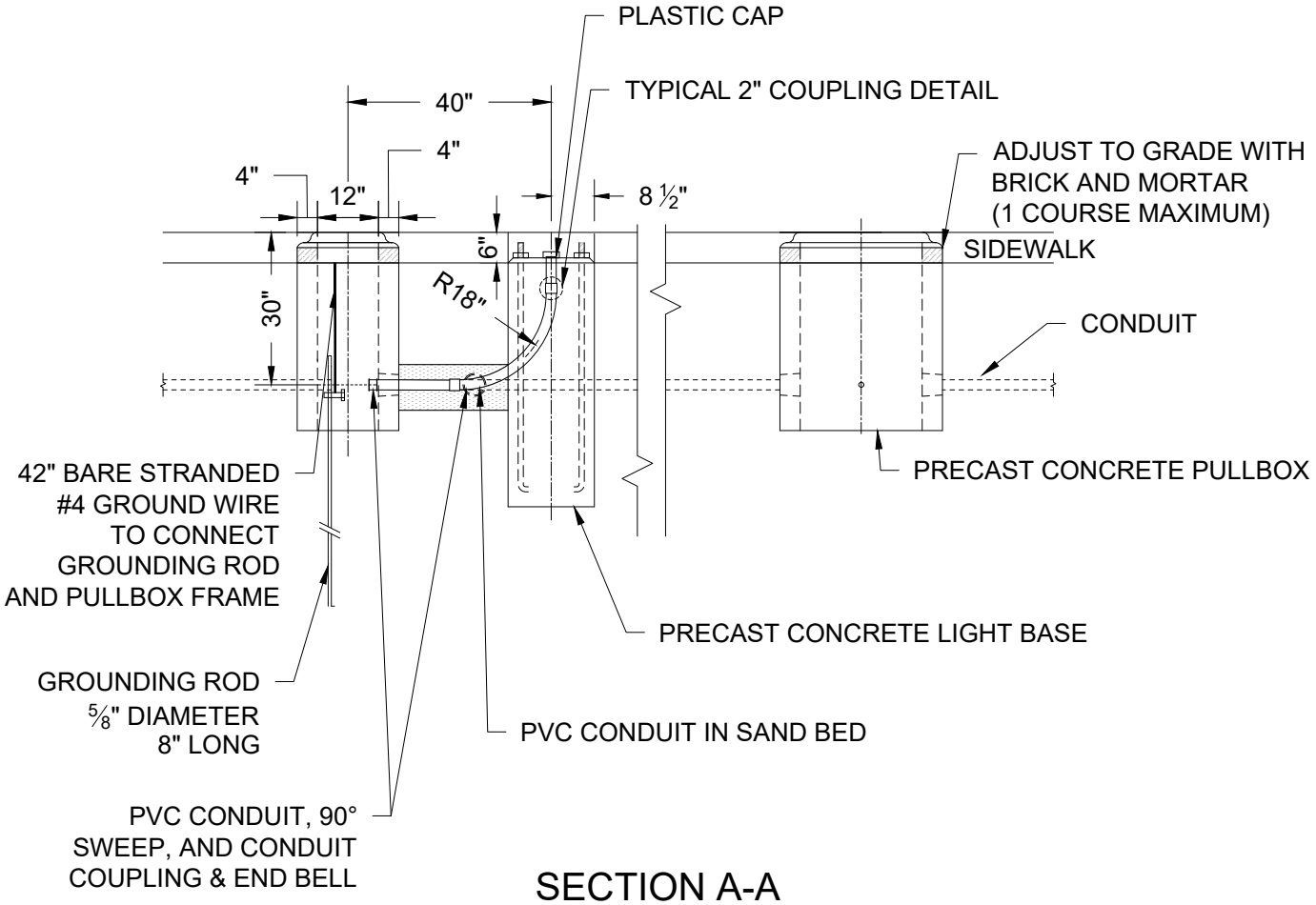
LOCATION PLAN
PULLBOXES IN SIDEWALK AREA WITH NO TREES

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.5.4



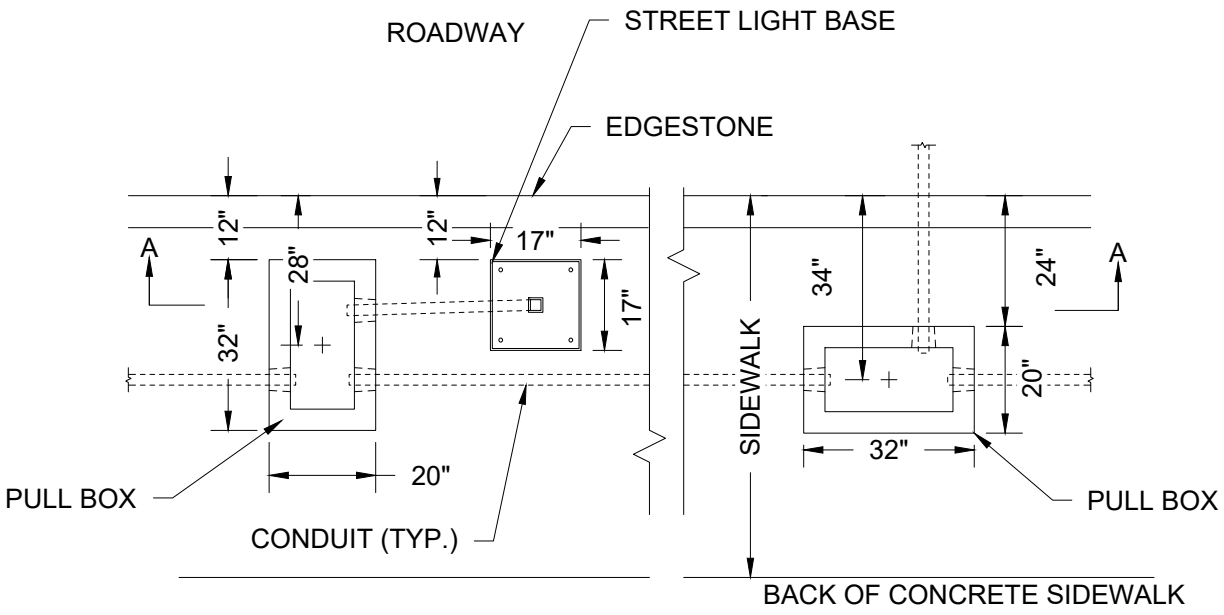


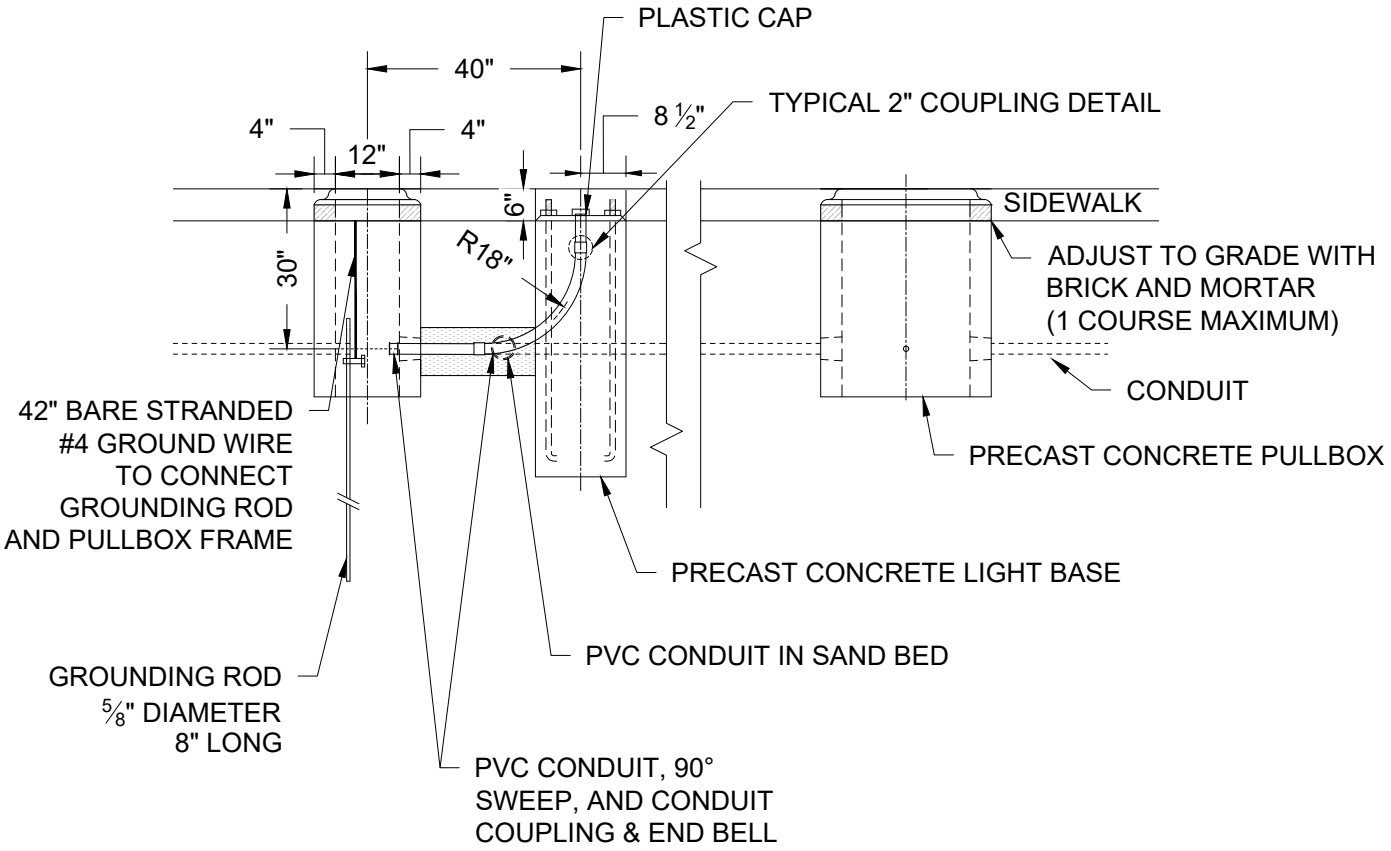
SECTION A-A

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN SIDEWALK AREA WITH NO TREES (SIDEWALK 7'-0" & GREATER)

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.5.5



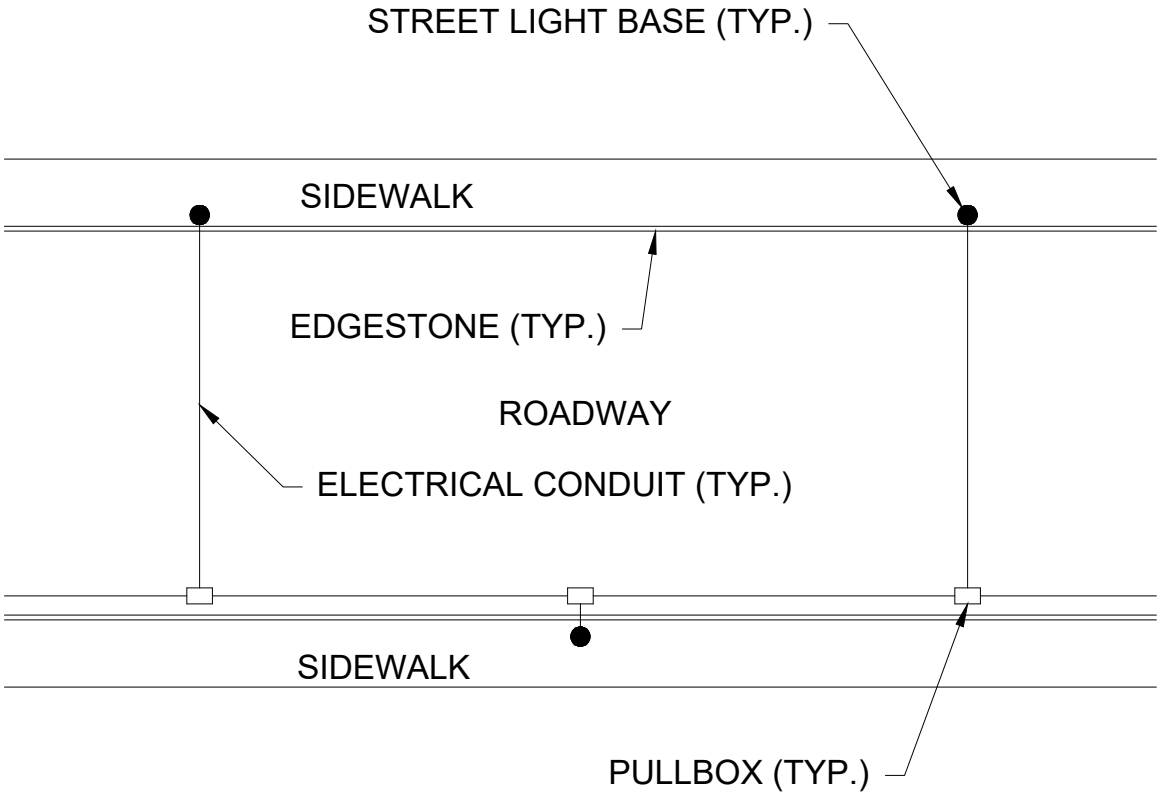


SECTION A-A

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN SIDEWALK AREA WITH NO TREES (SIDEWALK LESS THAN 7'-0")

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.5.6



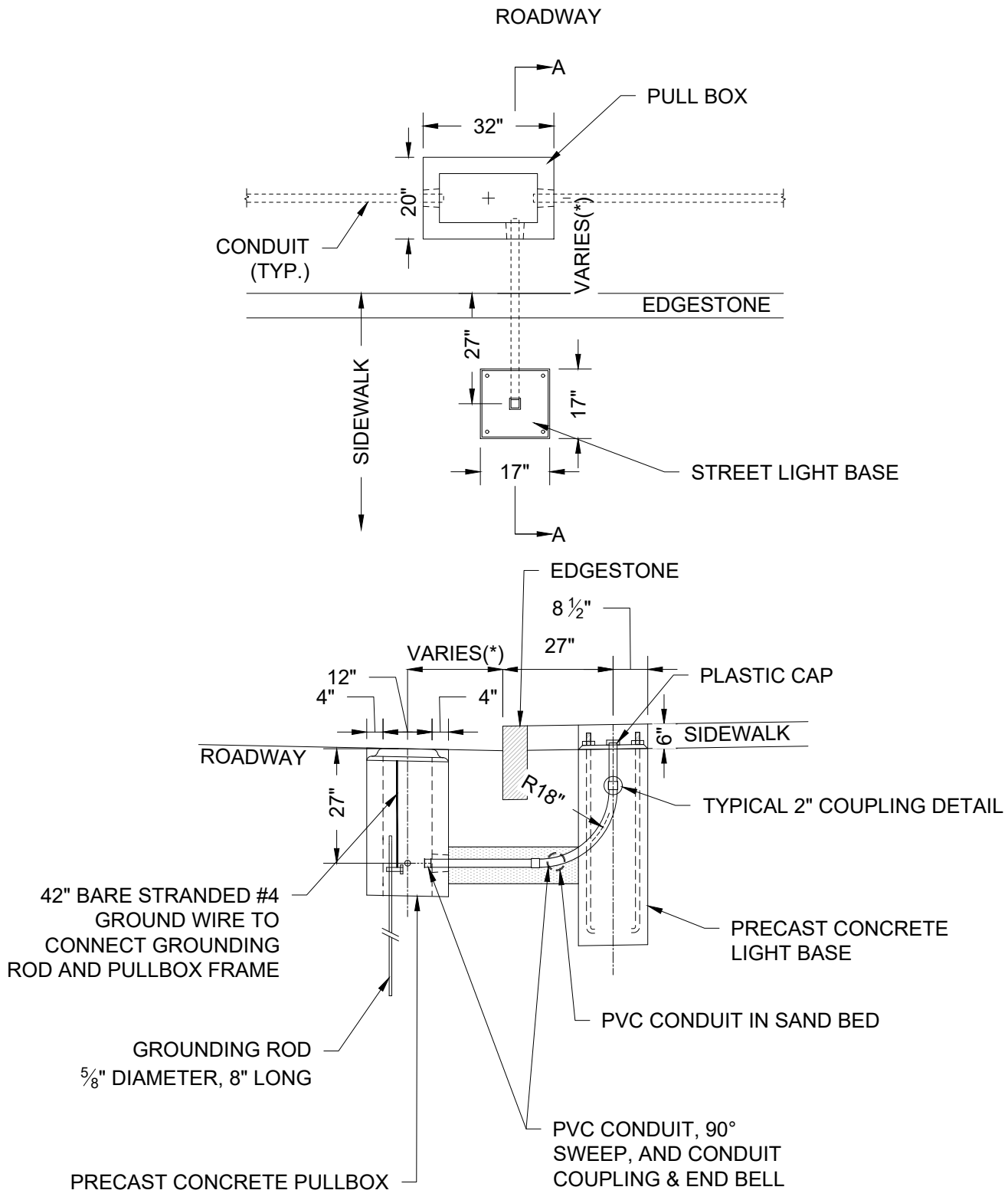
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

LOCATION PLAN
PULLBOXES IN ROADWAY AREA

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.5.7



SECTION A-A

(*) MINIMUM DISTANCE: 32"

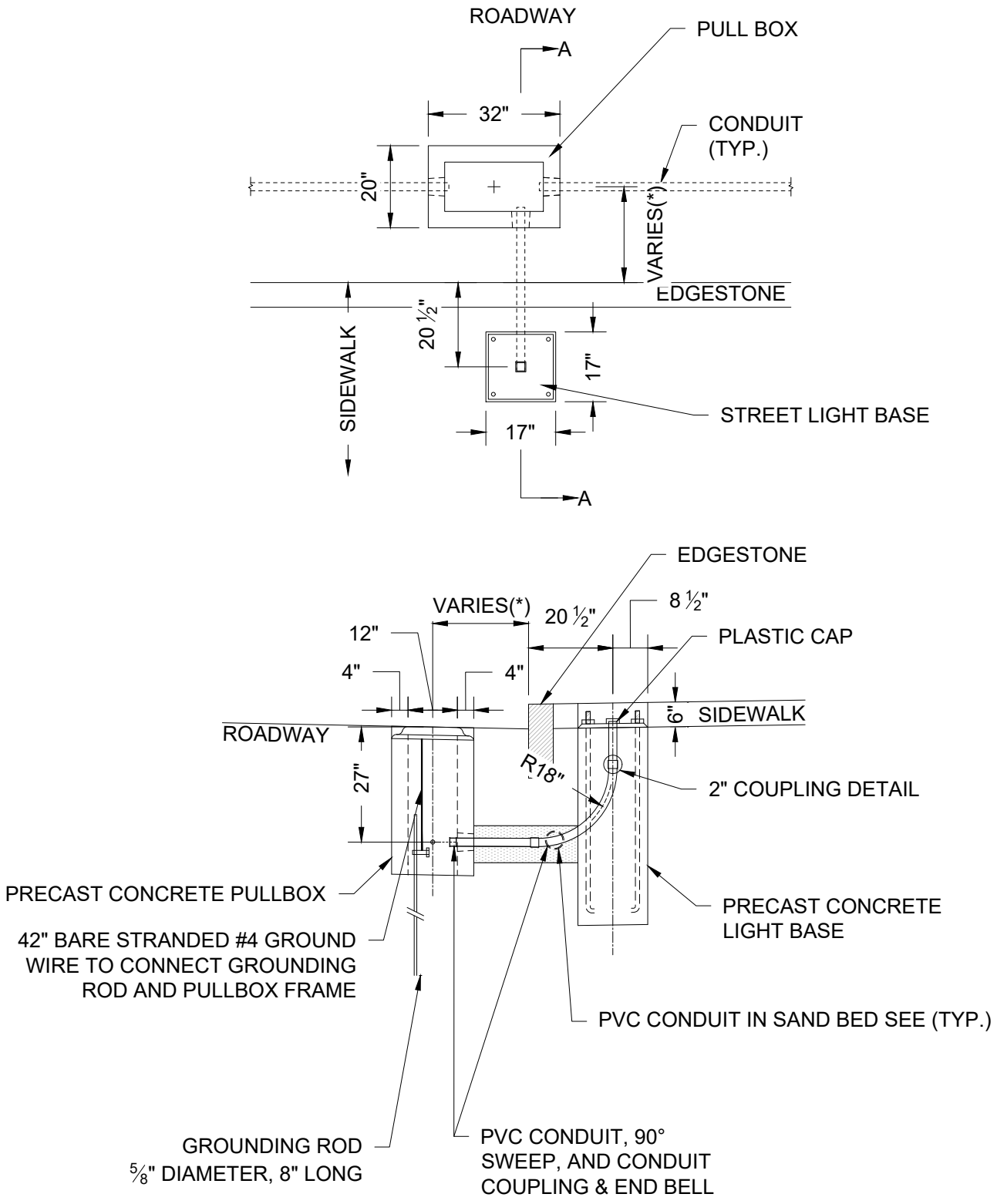
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN ROADWAY AREA (SIDEWALK 7'-0" & GREATER)

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.5.8



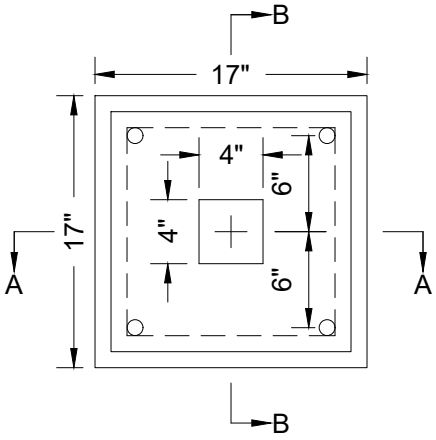
SECTION A-A

(*) MINIMUM DISTANCE: 32"

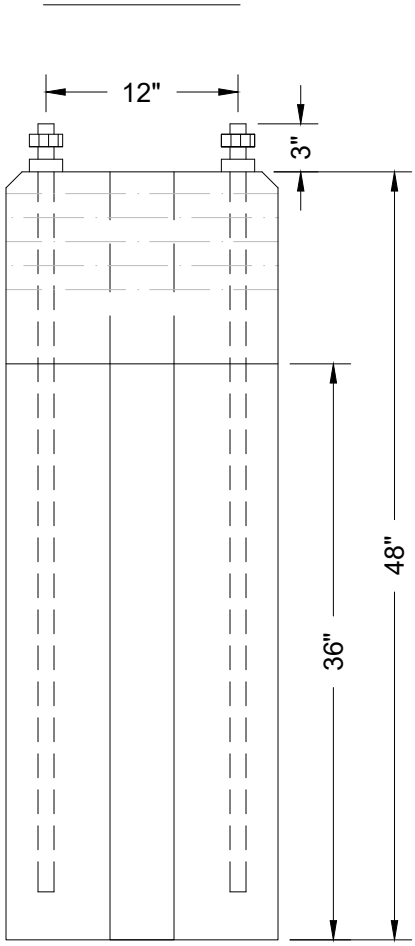
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PULLBOXES IN ROADWAY AREA (SIDEWALK LESS THAN 7'-0")

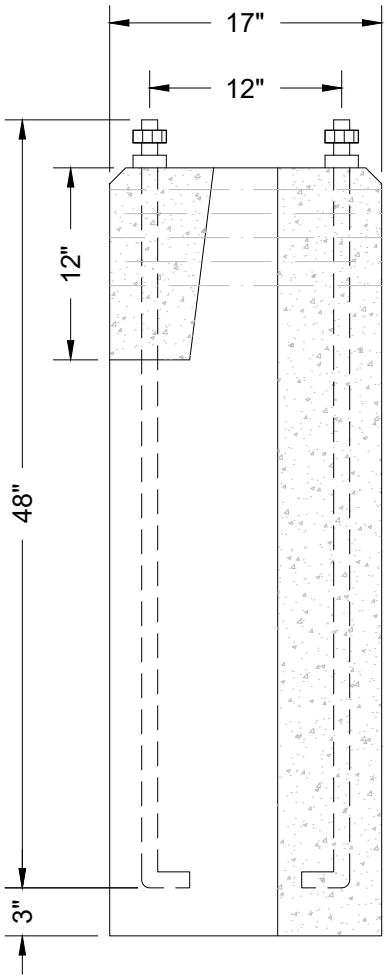
DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.5.9



TOP VIEW



SECTION B-B



SECTION A-A

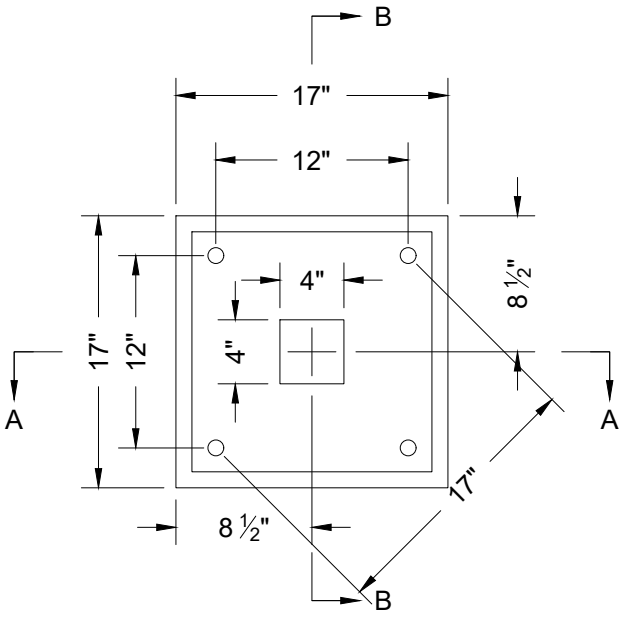
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE LIGHT STANDARD BASE

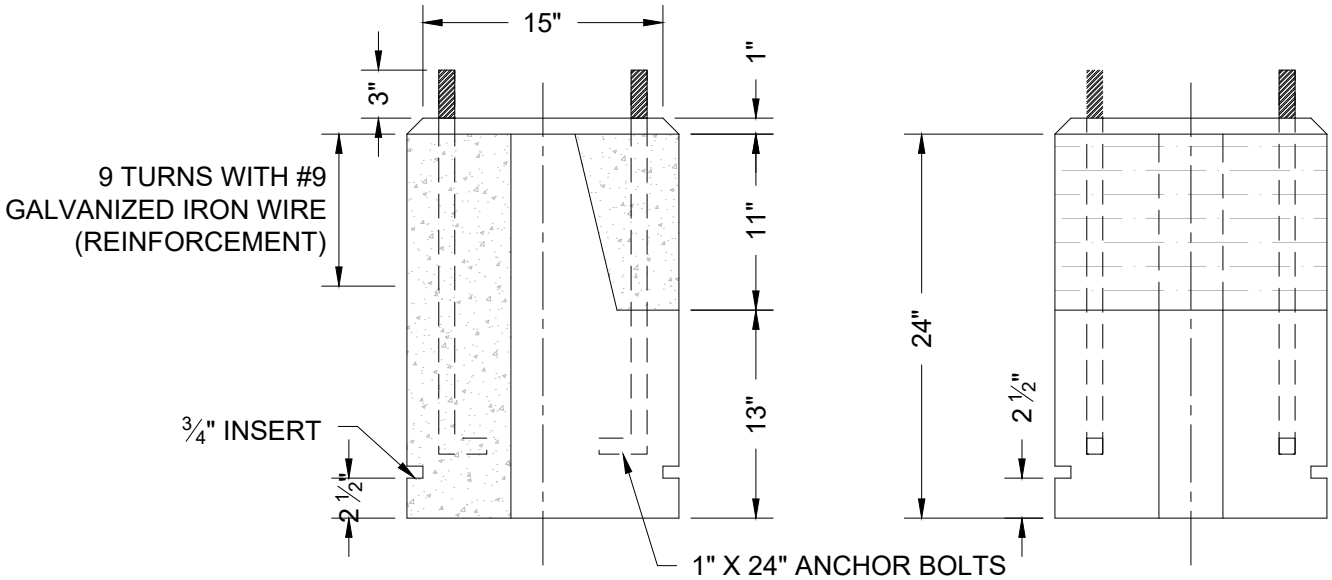
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.6.1



TOP VIEW



SECTION A-A

SECTION B-B

NOTE:

1. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 400 PSI.
2. 4 - 1"x2" ANCHOR BOLTS WITH NUTS & WASHER (GALV.) SHALL BE USED.
3. 1 - ¾" INSERTS CENTERED ON THREE SIDES UP 2 ½" FROM BOTTOM.

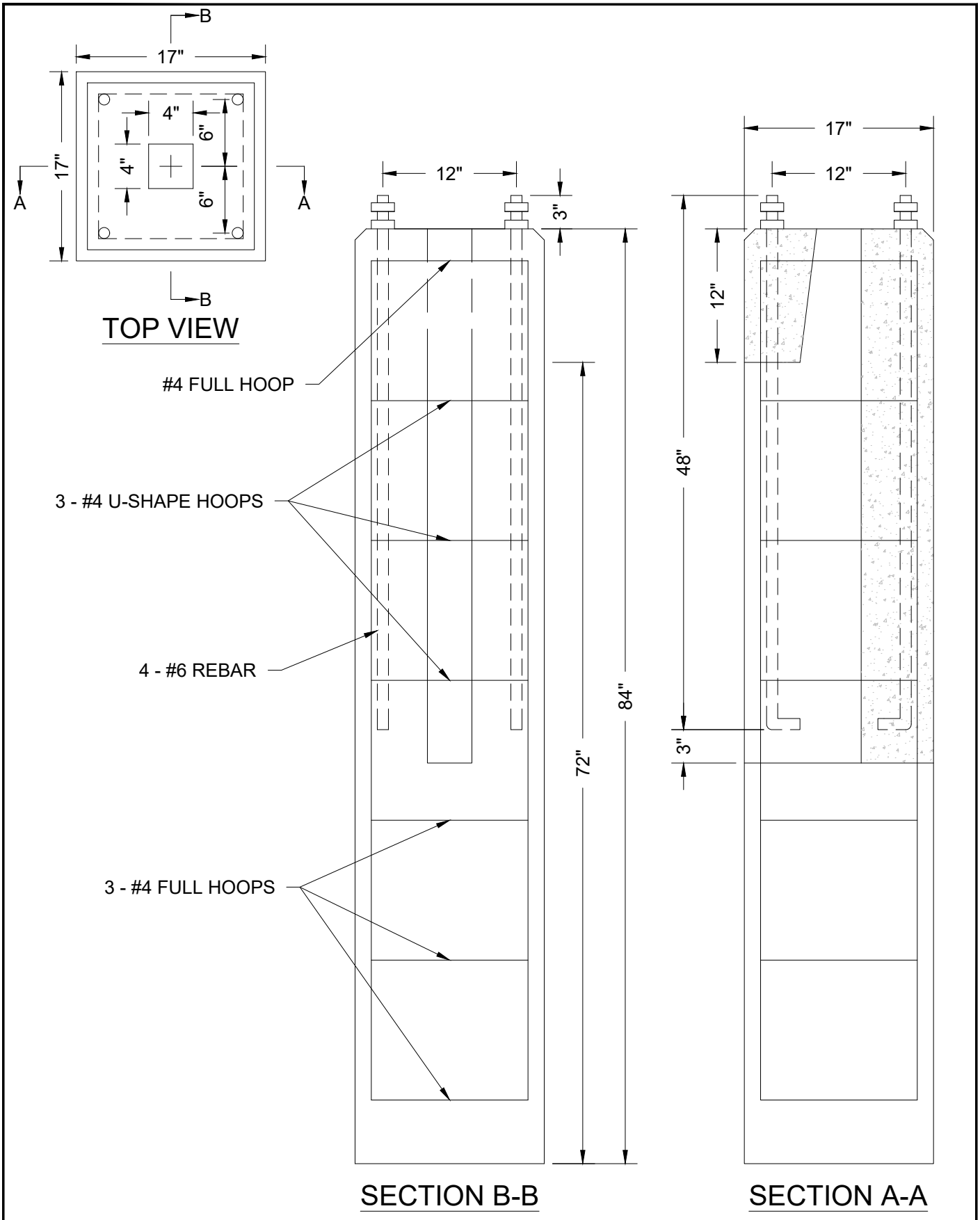
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

PRECAST CONCRETE LIGHT STANDARD SHORT BASE

DATE OF ISSUE: 10/06/2026

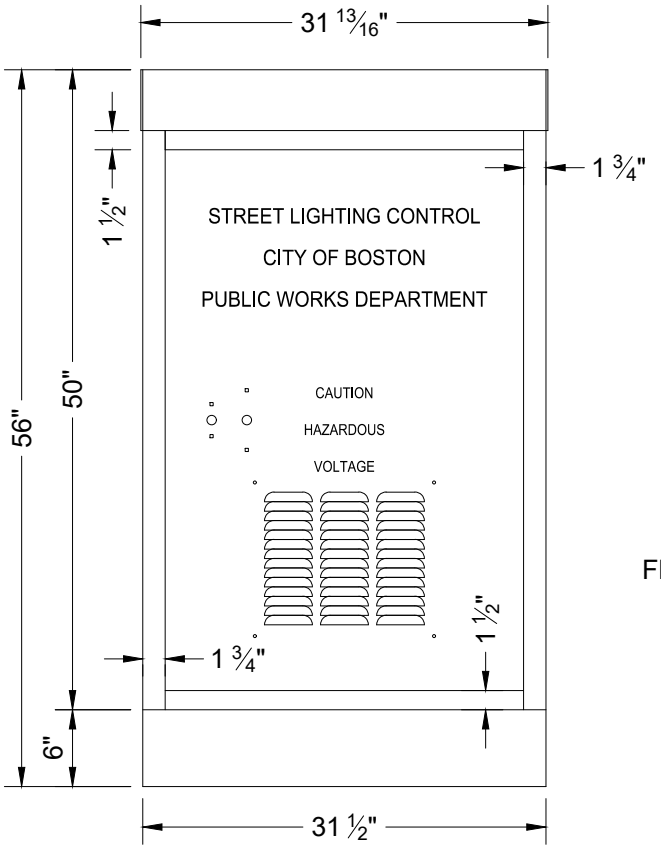
SCALE: N.T.S.

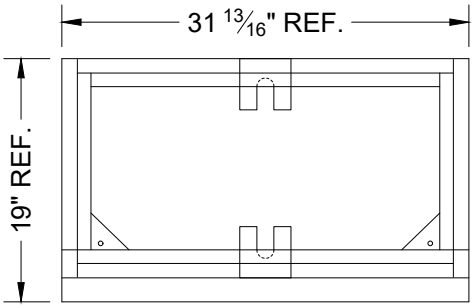
DETAIL NO. U.6.2



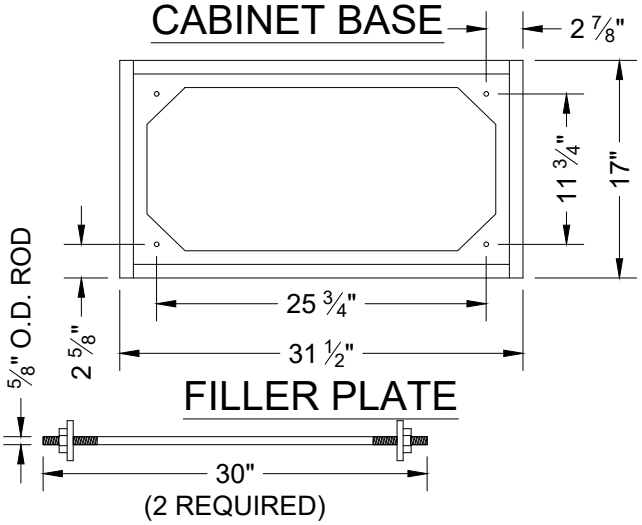
Public Works Department **Street Lighting Division** 1 CITY HALL SQUARE, ROOM 714 BOSTON, MA 02201 (617) 635-5810	PRECAST CONCRETE LIGHT STANDARD TALL BASE	**DATE OF ISSUE:** **10/06/2026**	**DETAIL NO.**
		SCALE: N.T.S.	U.6.3

FRONT VIEW





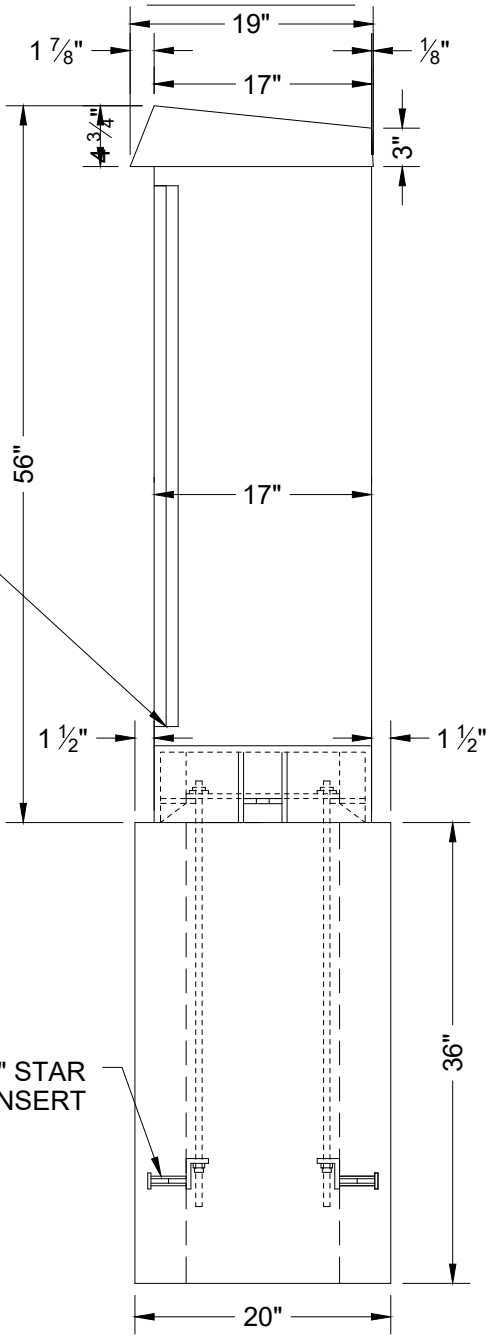
CABINET BASE



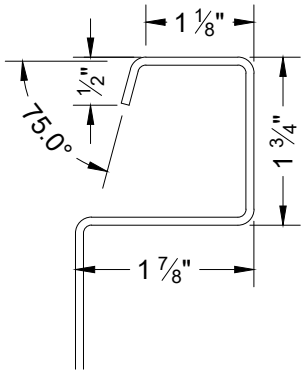
FILLER PLATE

(2 REQUIRED)

SIDE VIEW



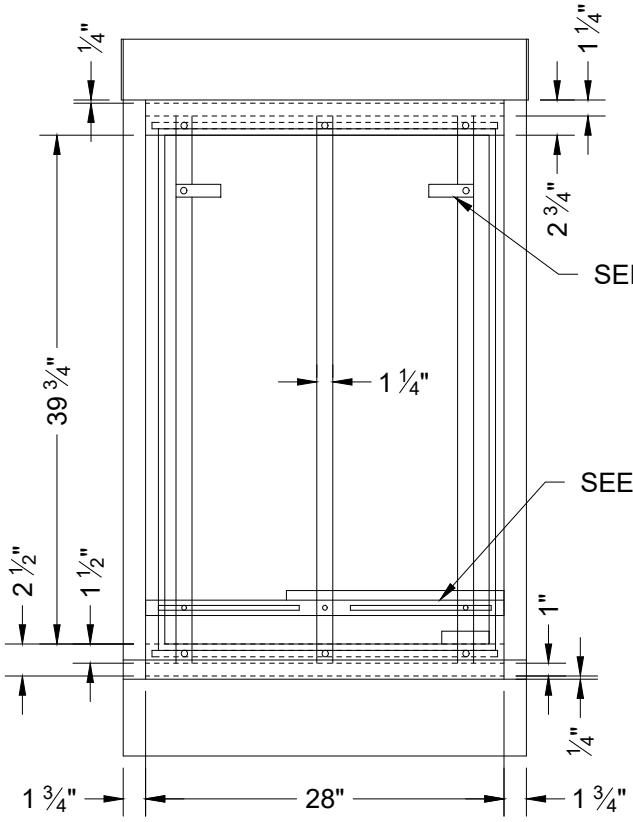
DOUBLE FLANGE DETAIL



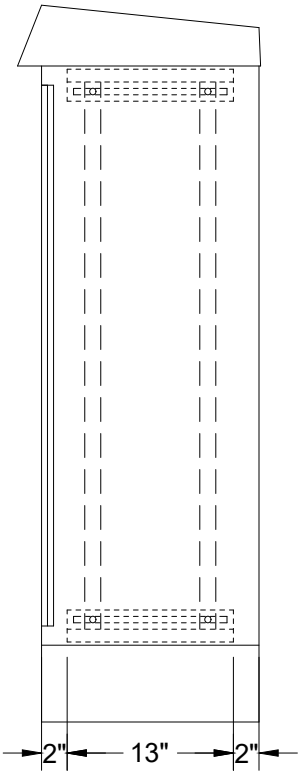
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STREET LIGHT CONTROL CABINET AND MOUNTING BRACKETS

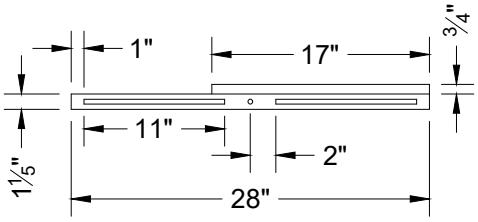
DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.7.1



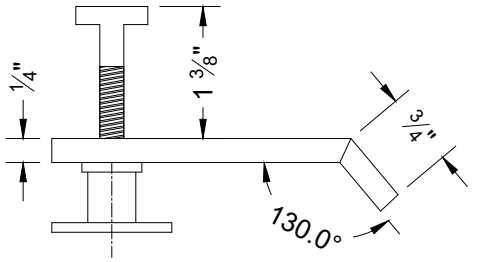
FRONT VIEW



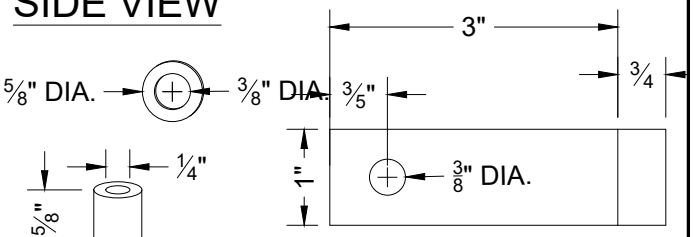
SIDE VIEW



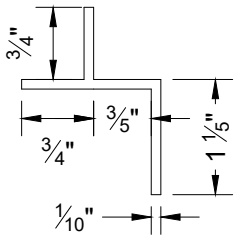
FRONT VIEW



SIDE VIEW

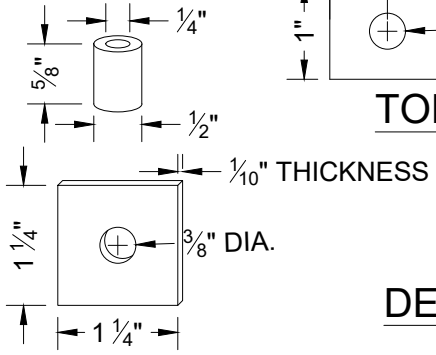


TOP VIEW



SIDE VIEW

DETAIL A



DETAIL B

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STREET LIGHT CONTROL CABINET BRACKET AND PANELBOARD ASSEMBLY

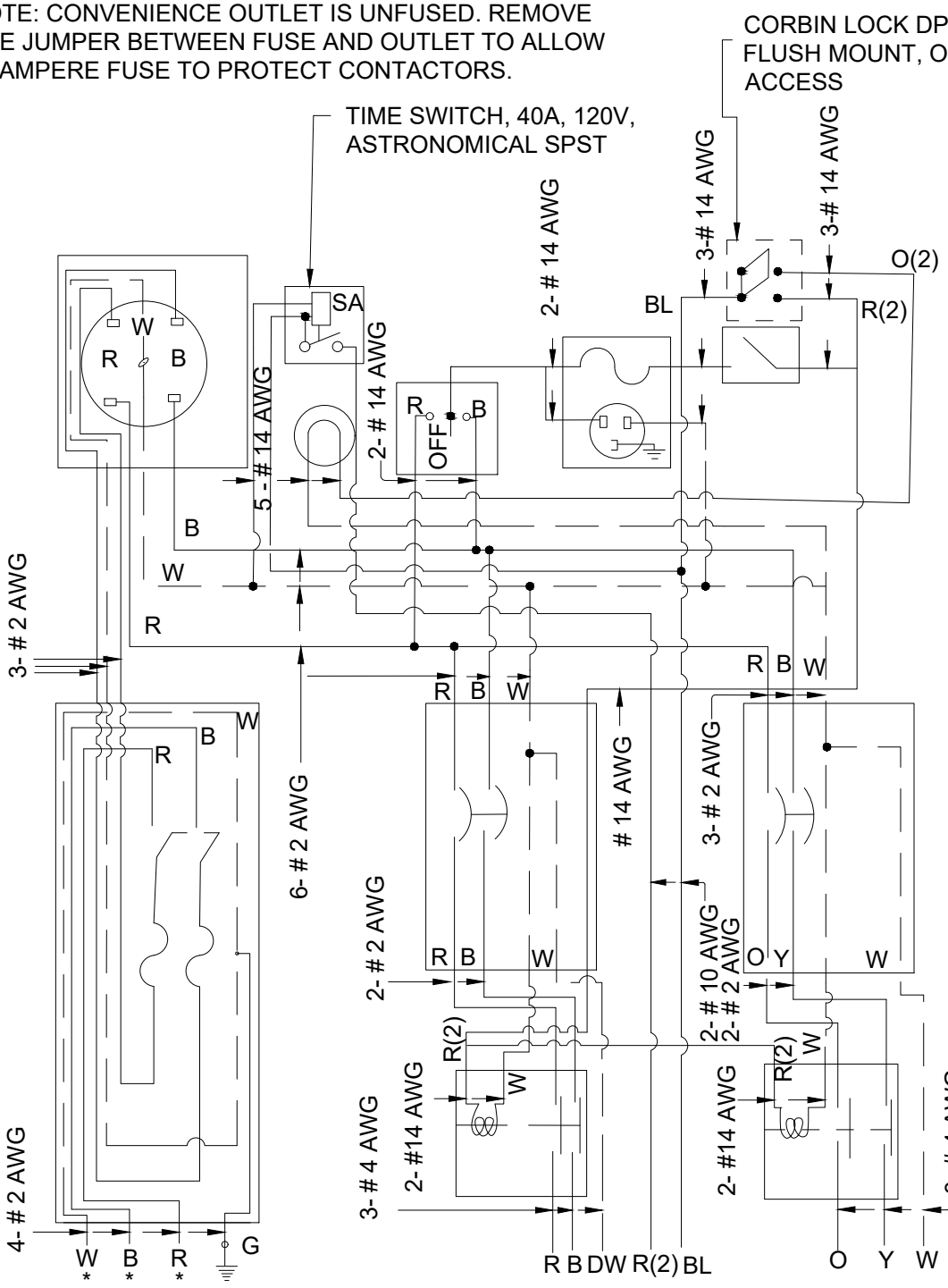
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.7.2

SPEC. # PBSLC-400

NOTE: CONVENIENCE OUTLET IS UNFUSED. REMOVE THE JUMPER BETWEEN FUSE AND OUTLET TO ALLOW 15 AMPERE FUSE TO PROTECT CONTACTORS.



* CONNECT TO EDISON FEEDS

NOTE: BLACK & RED (2) ARE BANDED TOGETHER AND CONNECTED TO LEADS FROM THE PHOTOCELL ON THE CONTROL LIGHT.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CABINET AND PANELBOARD WIRING

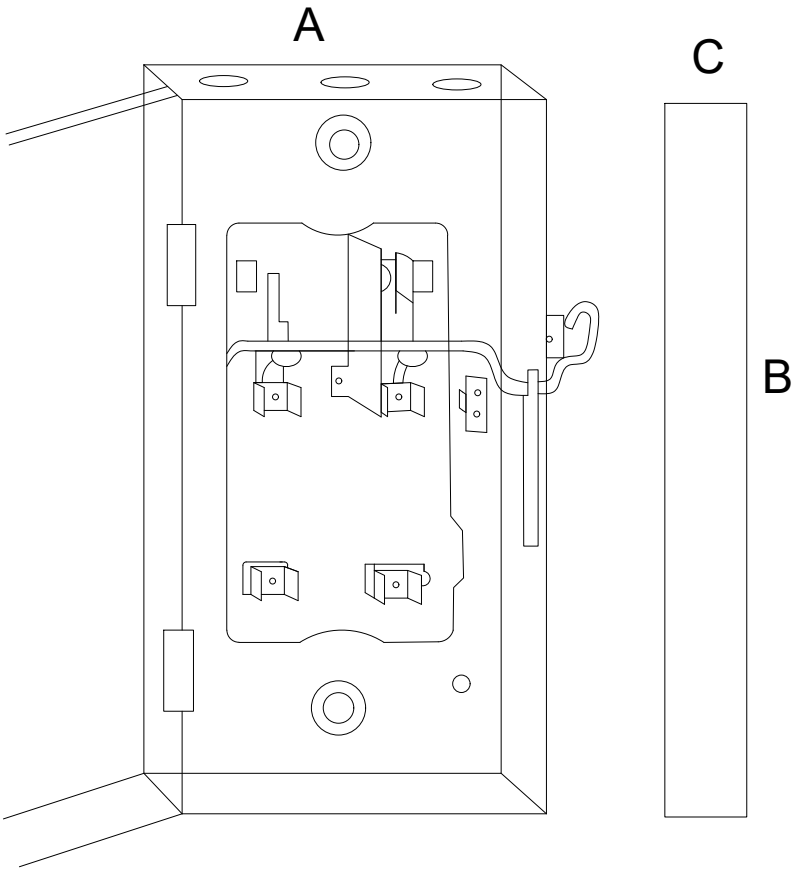
DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.7.3.1

SPEC #SS 100

SAFETY SWITCHES

100 AMP- 120/240 VOLTS AC. -7 1/2 HP

TYPE: STANDARD DUTY



TYPE G
NEMA ENCLOSEURE
SURFACE MTG
2 BLADES - 2 FUSES
NEUTRAL LUGS

DIMENSIONS

A) MAX. 9 ½"
B) MAX. 21"
C) MAX. 5"

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CABINET AND PANELBOARD
SAFETY SWITCHES

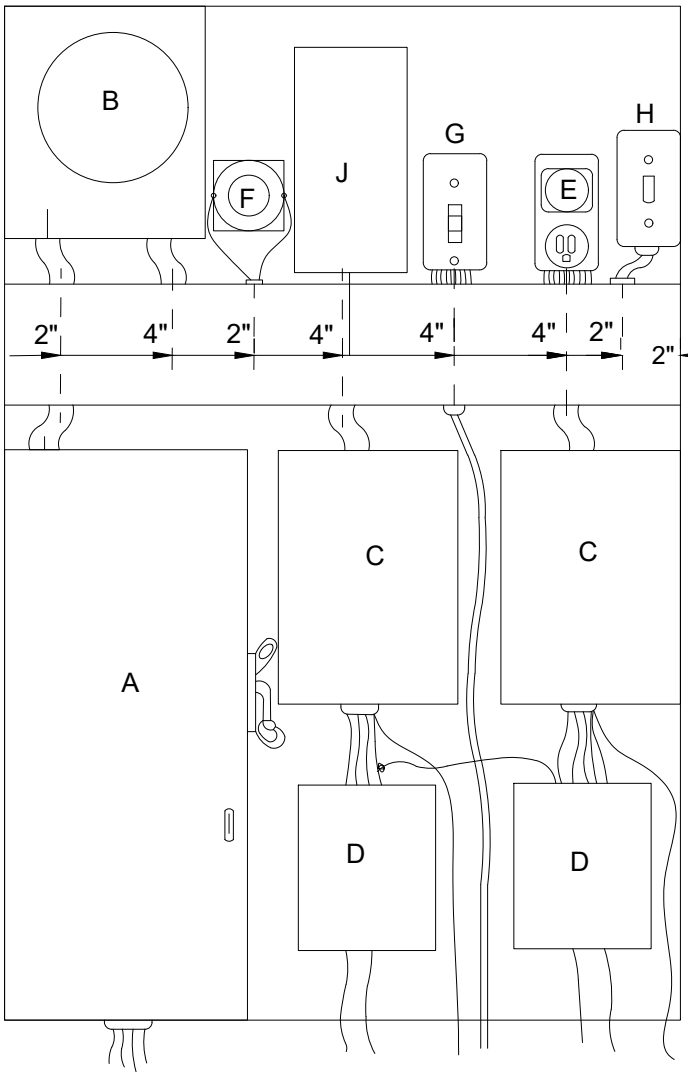
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

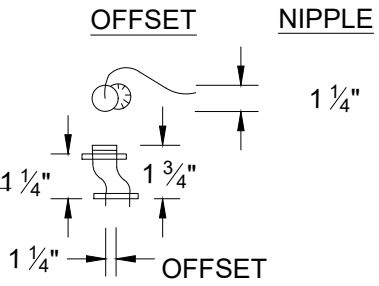
DETAIL NO. U.7.3.2

KNOCKOUTS USED IN WIRE TROUGH INDICATED BY POSITION FROM LEFT TO RIGHT.

SPEC. # PBSIC-400



NOTE: LIGHT BULB SOCKET TO ACCOMMODATE STANDARD 60W INCANDESCENT BULB



PANELBOARD 24" X 36"

A) 8 5/8" W. X 20 1/4 " L.
B) 7 1/8" W. X 8 1/4" L.
C) 6 3/8" W. X 9" L.
D) 4 7/8" W. X 5 7/8" L.
E) 2 1/4" W. X 4 1/8" L.
F) 2 1/2" W. X 2 1/2" L.
G) 2 1/4" W. X 4 1/8" L.
H) 2 1/4" W. X 4 1/8" L.
I) 1 5/16" W. X 4" L.
J) 4" W. X 8" L.
K) 24" W. X 4" L.

NOTE: I, NOT SHOWN. MOUNTING LOCATION UPPER RIGHT CORNER, RIGHT SIDE OF CAST ALUMINUM CABINET (ALTERNATELY, THE UPPER LEFT CORNER, REAR SIDE OF CAST ALUMINUM CABINET)

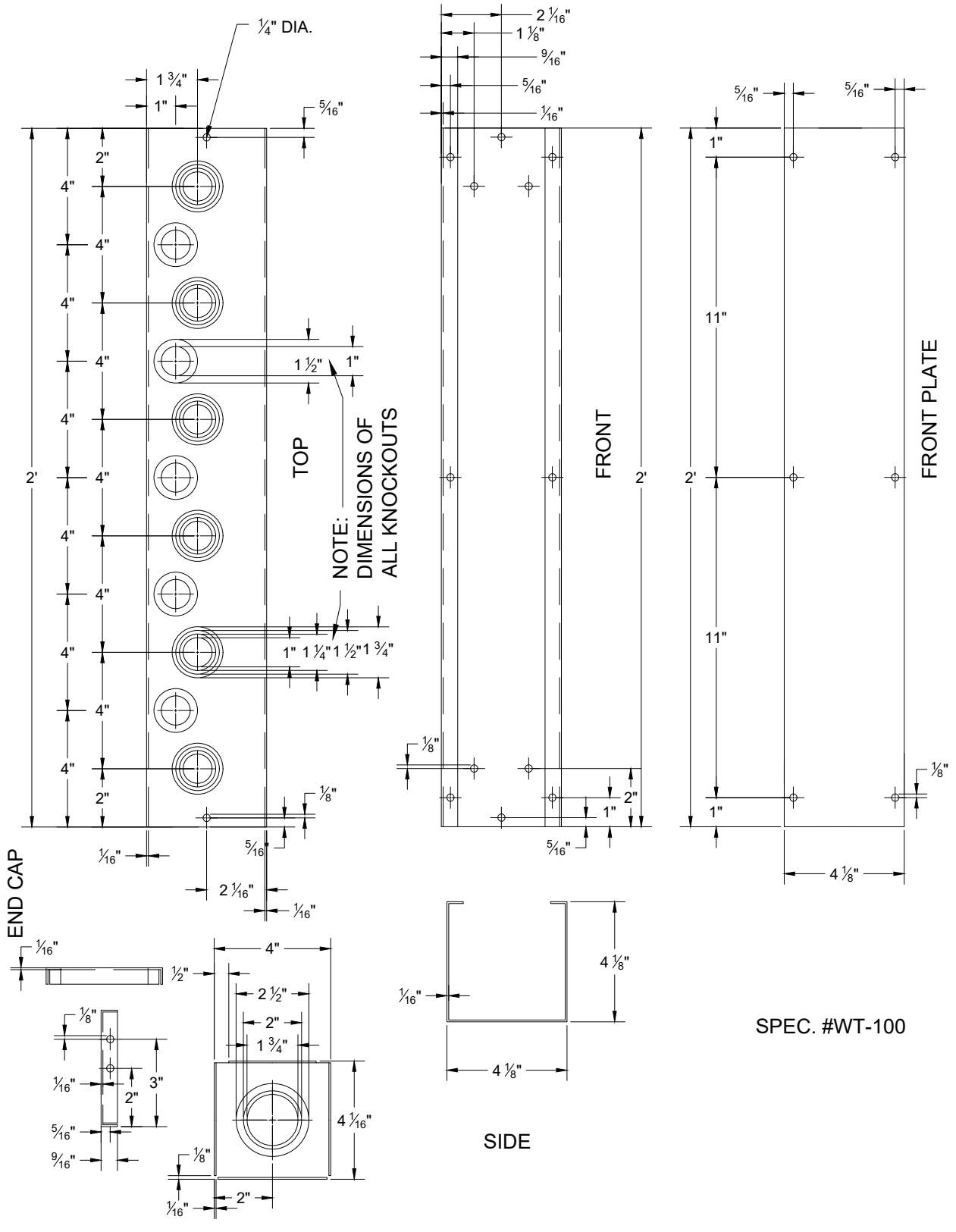
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CABINET AND PANELBOARD PANELBOARD COMPONENT SIZE AND PLACEMENT

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

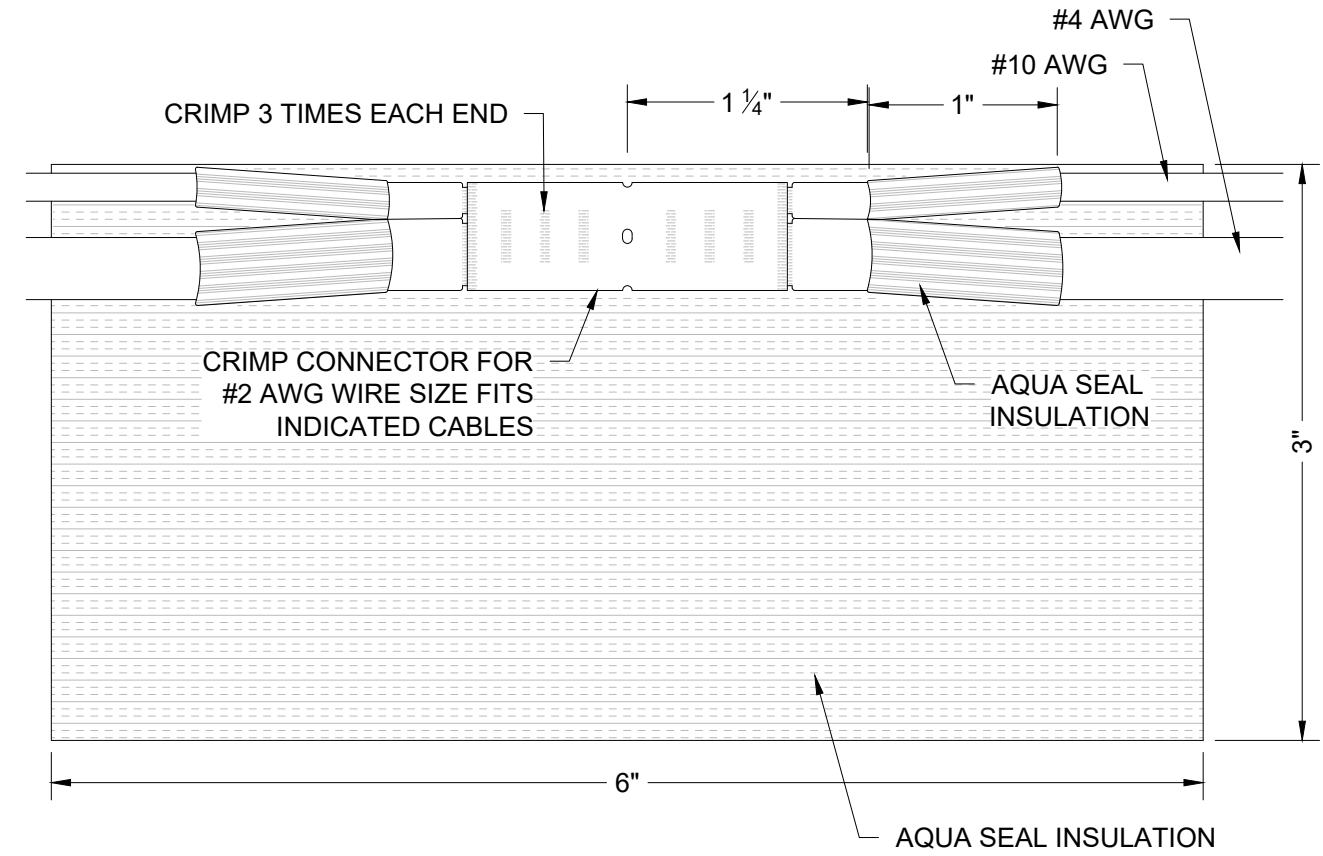
DETAIL NO. U.7.3.3

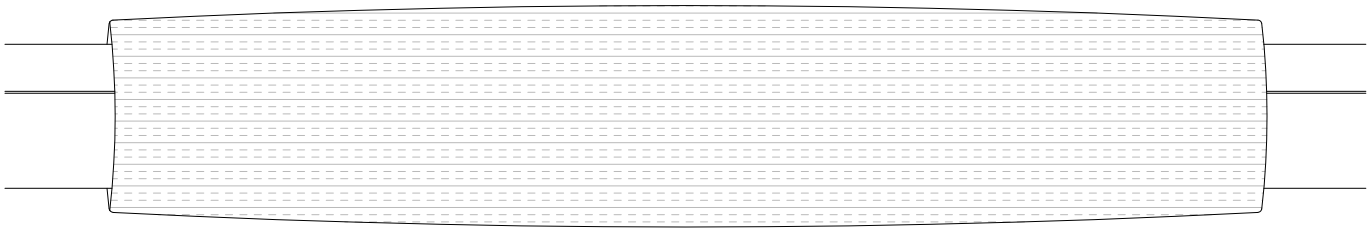


Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CABINET AND PANELBOARD WIRE TROUGH

DATE OF ISSUE: 10/06/2026	DETAIL NO.
SCALE: N.T.S.	U.7.3.4





SEE NEXT PAGE FOR WRITTEN SPECIFICATION

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BARREL CONNECTOR SPLICE

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.8.1

1. ALL CABLES TO BE SPLICED WITH BARREL CONNECTORS SHALL HAVE THEIR INSULATION STRIPPED ¾" BACK FROM THE END OF THE CABLE. THE BARED COPPER CONDUCTORS AND 3" OF THE INSULATION SHALL BE CLEANED WITH AN ELECTRICIAN'S ABRASIVE CLOTH (120 GRIT AL 02). THE CLEANED INSULATION SHALL BE COATED WITH AN APPROVED ELECTRICAL GRADE, FAST DRY SEALANT AND BONDING COMPOUND. AFTER ALLOWING THE ELECTRICAL COATING TO DRY TACK FREE, EACH COATED JACKET SHALL BE WRAPPED WITH A 1"W X 1"L BAND OF INSULATING AND WATERPROOFING COMPOUND MANUFACTURED BY KEARNEY NATIONAL INC. UNDER THE TRADE NAME AQUA SEAL OR AN APPROVED EQUAL. KEEP THE BANDS OF INSULATING COMPOUND FROM ADHERING TOGETHER UNTIL THE CONDUCTORS HAVE BEEN JOINED. THE CONDUCTORS SHALL BE JOINED BY AN APPROPRIATE SOLDERLESS CONNECTOR SIZED AS PREVIOUSLY INDICATED. A PAD OF INSULATING AND WATERPROOFING COMPOUND 3"W X 6"L MUST BE USED TO ENCASE THE CONNECTOR AND EXTEND 2" BEYOND THE CONNECTOR ON THE INSULATING JACKET OF THE CONDUCTORS. ENCASE THE BANDED CONDUCTORS ON EACH SIDE WITH A PORTION OF THE PAD; CONTINUE BY WRAPPING THE ENTIRE SPLICE WITH THE COMPOUND. KNEAD THE COMPOUND BY HAND ENCASING THE CONNECTOR AND FORMING A HOMOGENIZED MASS WITH THE BANDS AROUND EACH CONDUCTOR; NO PORTION OF THE CONNECTOR OR CONDUCTORS TO BE ENCASED IN THE SPLICE MAY HAVE ANY EXPOSED AREA ALLOWING ENTRY OF WATER OR VAPOR.

2. WRAP THE ENTIRE AREA OF THE SPLICE WITH HIGH VOLTAGE ELECTRICAL INSULATING TAPE (1 ½"W X 0.030" THICK) MANUFACTURED BY PLYMOUTH RUBBER CO., PLYSAFE CAT. #2134 OR 3M CO., SCOTCH 23, OR APPROVED EQUAL. APPLY UNIFORMLY LAPPING HALF THE WIDTH OF THE TAPE WITH EACH TAPE WRAP, ELONGATING 30% OR LESS OF THE ORIGINAL, TAPE LENGTH. TAKE CARE THAT NO PORTION OF THE INSULATING COMPOUND PROTRUDES THROUGH THE WRAPS OF INSULATING TAPE.

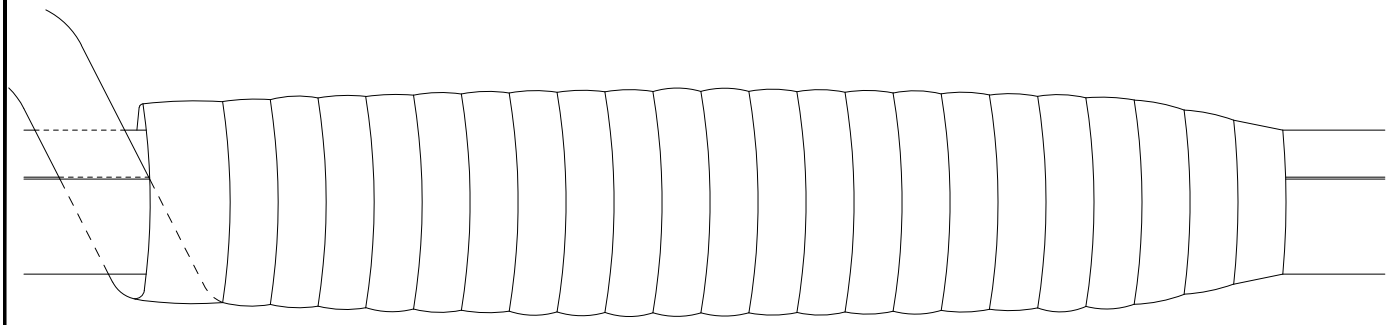
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

BARREL CONNECTOR SPLICE SPLICING SPECIFICATION

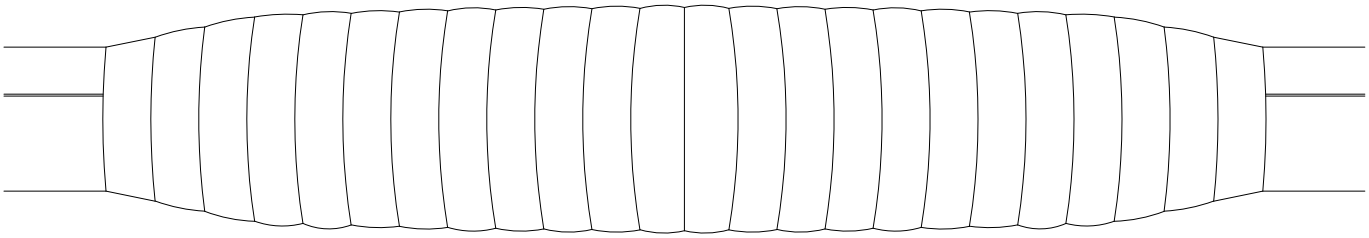
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.8.2



3. WHEN THE INSULATING TAPE HAS BEEN WRAPPED OVER THE LENGTH OF THE SPLICE, CONTINUE WRAPPING TO FINISH THE LAYER AND SECURELY SEAL THE END OF THE SPLICE.



4. FINALLY, THE ENTIRE SPLICE SHALL BE OVERWRAPPED WITH A PROTECTING LAYER OF 7 MIL. VINYL PLASTIC ELECTRICAL TAPE (¾" W.) MANUFACTURED BY PLYMOUTH RUBBER COMPANY, SLIPKNOT GRAY CAT. #3272 OR 3M CO., SCOTCH 33 PLUS, OR APPROVED EQUAL. APPLY UNIFORMLY IN THE SAME MANNER AS THE PREVIOUS WRAP OF HIGH VOLTAGE INSULATING TAPE.

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

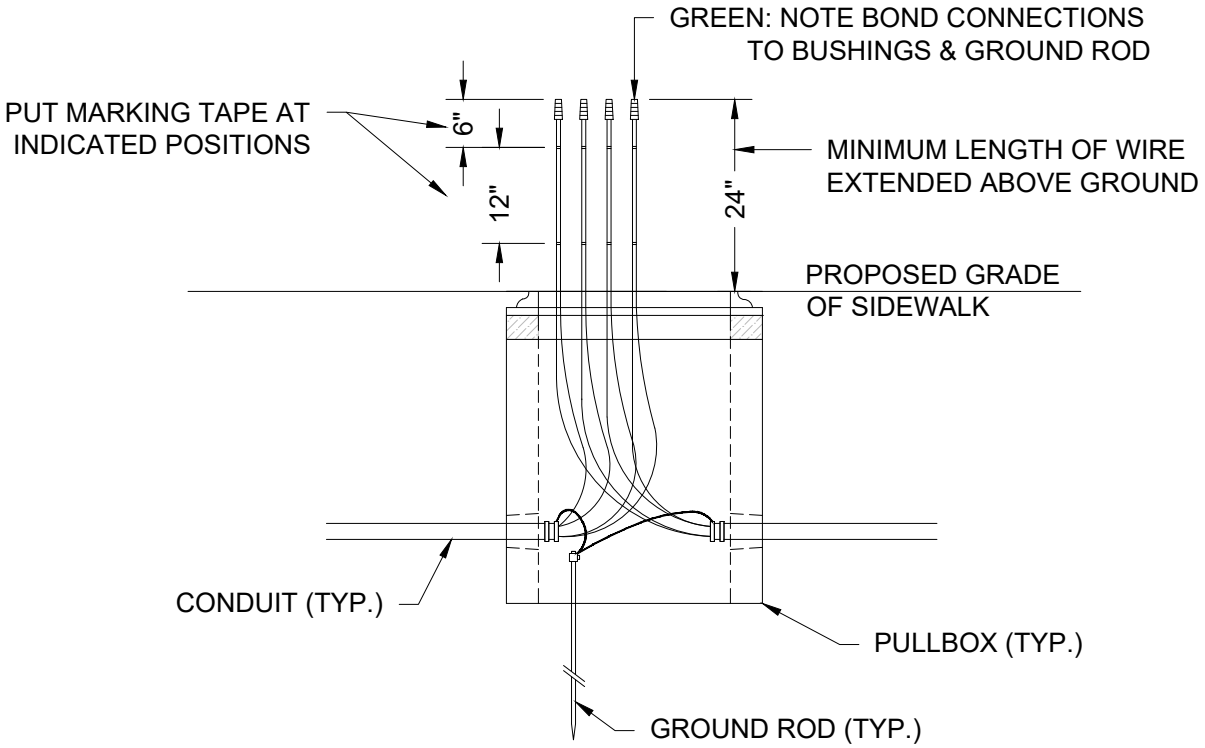
BARREL CONNECTOR SPLICE SPLICING SPECIFICATION

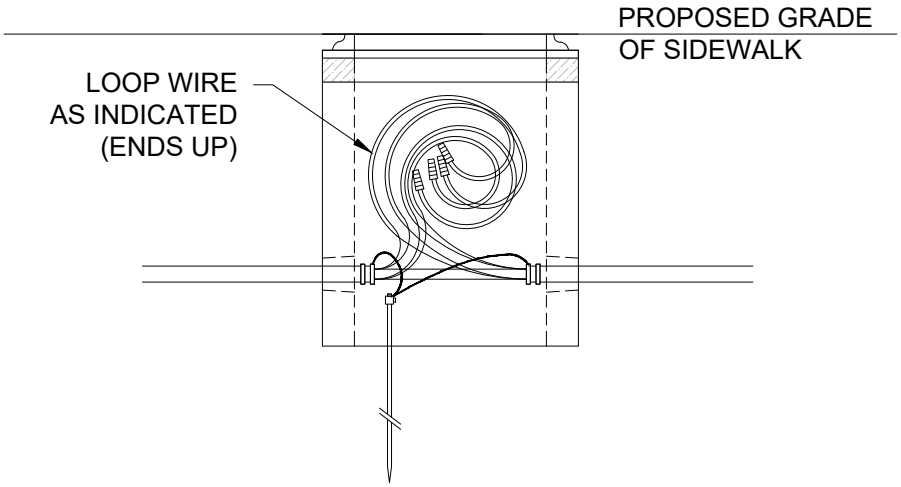
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO.

U.8.3





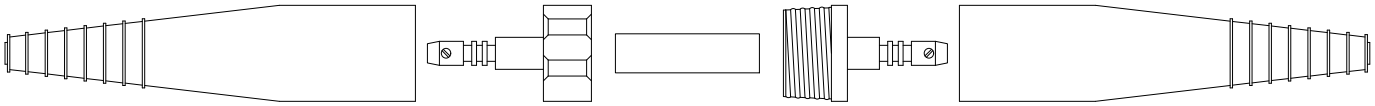
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

SPLICING SPECIFICATION TYPICAL DETAILS

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.9



RATING:	600 VOLTS - 30 AMPS
FUSE SIZE:	1 ½" X 13/32" O.D. - FERRULE 3/8"
CONNECTOR SIZE:	8 ½" X 7/8" O.D.
CONNECTOR TYPE:	FUSE - QUICK DISCONNECT SET SCREW TYPE CONNECTION
CONNECTOR MATERIAL:	MOULDED PLASTIC BODY WITH RUBBER INSULATING BOOTS.
CONDUCTOR SIZE:	LINE & LOAD #2 AWG O.D.0.42 THROUGH #12 AWG
REQUIRED FEATURES:	WATERTIGHT NO TAPING OR SEALANT REQUIRED.
FUSE HELD IN LOAD SIDE WHEN CONNECTOR IS DISCONNECTED. FURNISH ROD BLANK 1 ½" X 13/32"	

NOTE:
SMALLER SIZE CONDUCTORS SHALL HAVE BARE PORTION OF CONDUCTOR DOUBLED BACK BEFORE INSERTION INTO BODY OF CONNECTOR TO ASSURE GOOD CONTACT BETWEEN THE CONDUCTOR AND THE SET SCREW.

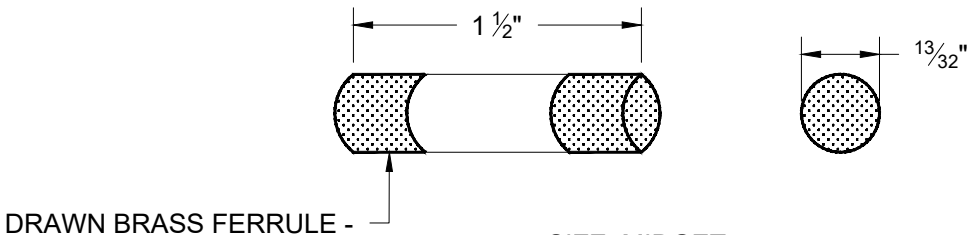
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STRAIGHT THRU CONNECTOR

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.10



SIZE: MIDGET
TYPE: CURRENT LIMITING FUSE
VOLTAGE RATING - 250 VOLTS
USE: PROTECTION OF STREET
LIGHTING EQUIPMENT.

MINIMUM INTERRUPTING TIME		
FUSE SIZE	OVERLOAD	MIN. INTER. TIME
5 AMPS	6 TIMES RTG.	0.02 SECONDS
10 AMPS	6 TIMES RTG.	0.05 SECONDS
15 AMPS	6 TIMES RTG.	0.12 SECONDS
20 AMPS	6 TIMES RTG.	0.03 SECONDS

NOTE:
FOR 175W LIGHTS USE 10 AMP FUSE
FOR 250W LIGHTS USE 15 AMP FUSE
FOR 450W LIGHTS USE 20 AMP FUSE

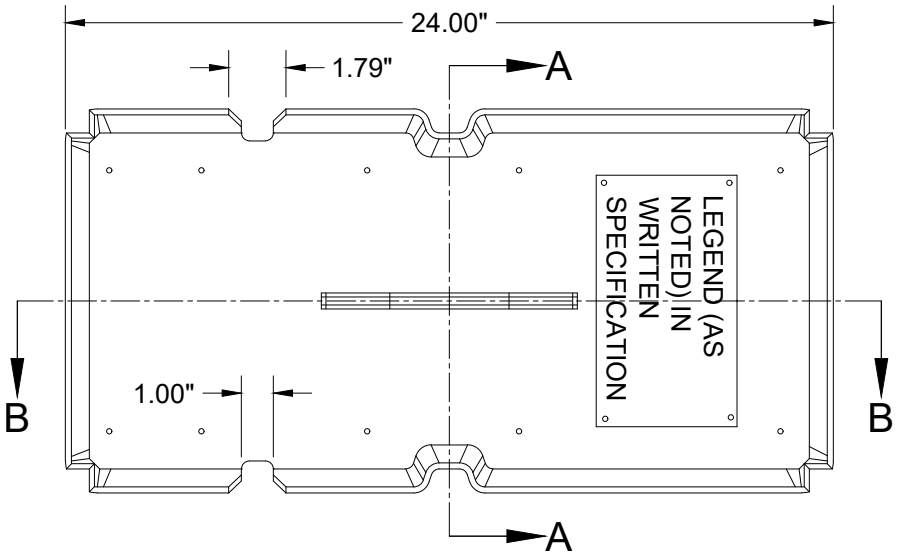
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

FUSES

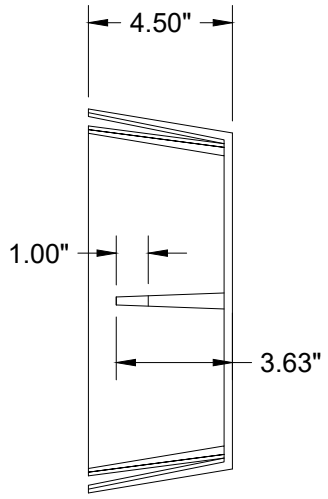
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

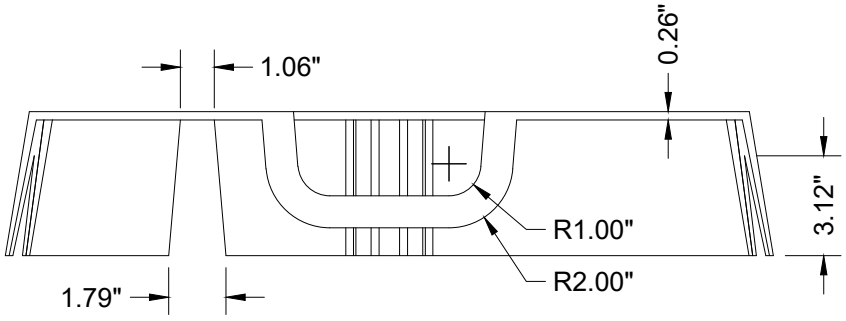
DETAIL NO. U.11



PLAN VIEW



SECTION A-A



SECTION B-B

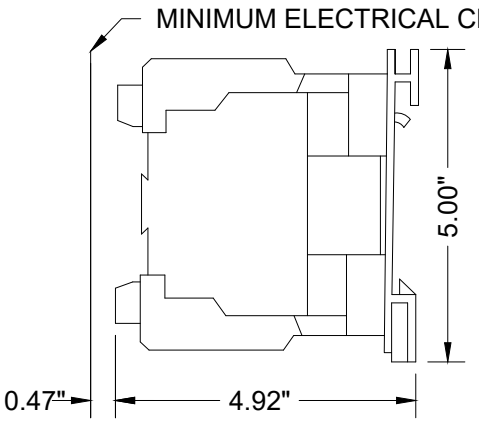
Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

STREET LIGHTING NON-CONDUCTING INSULATING SLEEVE

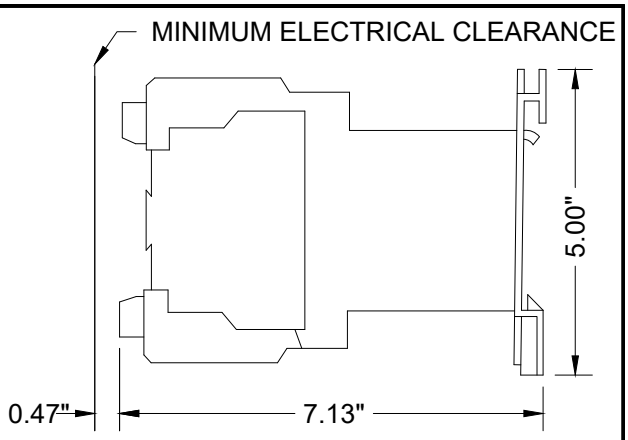
DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.12

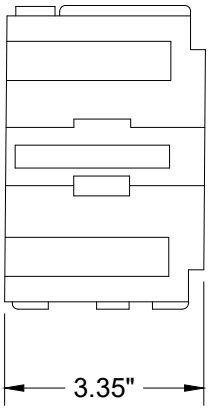


SIDE VIEW (AC COIL)



SIDE VIEW (DC COIL)

POLES		3
AUXILIARY CONTACTS		1N.O. + 1N.C.
WEIGHT AC / DC		3.4 / 5.7 LBS
RATED INSULATION VOLTAGE (VAC)		1000
OPERATING FREQUENCY (OP./HR.)		3600
AMBIENT TEMPERATURE		23 TO 131°F (-5 TO +55°C)
MAXIMUM OPERATING ALTITUDE (METER)		3000
MECHANICAL LIFE (x10^6 OPERATIONS)		4
RATED HEATING CURRENT	(A) AC-1	125
	(A) AC-3	80
THREE-PHASE CAGE MOTOR AC-3	(Hp) 208 V	25
	(Hp) 240 V	25
	(Hp) 480 V	60
	(Hp) 600 V	60
	(kW) 220 V	22
	(kW) 380 V	37
	(kW) 415 V	45
	(kW) 600 V	45



TOP VIEW

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CONTACTOR

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.13

TERMINAL CONNECTION			
FLEXIBLE CABLE AWG:			10~2
TIGHTENING TORQUE IN-LB			75
COIL SPECS.			
COIL POWER	AC	IN-RUSH (VA)	245
		SEATED (VA)	26
	DC	IN-RUSH (VA)	22
		SEATED (VA)	22
RECOMMENDED TRANSFORMER			100 VA
AVERAGE OPERATING TIME	AC	CLOSING (MSEC)	20 - 35
		OPENING (MSEC)	06 - 20
	DC	CLOSING (MSEC)	95 - 130
		OPENING (MSEC)	20 - 35
OPERATION RANGE	AC	OPERATION VOLTAGE (AC)	80~110%
		DROP-OUT VOLTAGE (AC)	30~60%
	DC	OPERATION VOLTAGE (AC)	85~110%
		DROP-OUT	10~25%
AUXILIARY CONTACT			
RATED THERMAL CURRENT ITH (A)			10
TERMINAL CAPACITY AWG			16-10
TORQUE OF TERMINALS IN-LB			9.0000

Public Works Department
Street Lighting Division
1 CITY HALL SQUARE, ROOM 714
BOSTON, MA 02201
(617) 635-5810

CONTACTOR SPECIFICATION

DATE OF ISSUE: 10/06/2026

SCALE: N.T.S.

DETAIL NO. U.14