Series PL Elliptical Tapered Luminaire Arm

SERIES PL DESIGN INFORMATION

MAST ARM ATTACHMENTS:
Arms are secured by (2) cap screws to a weather-resistant fitting.

BASE PLATES:
Provided with slotted holes to allow easy anchor bolt installation.

BASE COVERS:
Give a pleasing, smooth transition from shaft to base. They are supplied in two halves and clamp securely to the pole.

ANCHOR BOLTS:
If ordered, are galvanized and supplied with two nuts and two washers per bolt. They meet ASTM F1554 Grade 55 specification.

FINISH:
Poles and arms are galvanized in conformance to ASTM A123.

OPTIONS:
See Page 20 for options and accessories.
Series PL Elliptical Tapered Arm

1. Pole Design is in accordance to the 2009 AASHTO Specifications for Structural Supports of Highway Signs, Luminaires, and Traffic Signals.

2. Weights are exclusive of anchor bolts.

3. For twin arms consult Ameron.

### AASHTO 2009 Max EPA

<table>
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<th>Catalog Number</th>
<th>Shaft Length (FT)</th>
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<th>Base OD (IN)</th>
<th>BC Min (IN)</th>
<th>BC Max (IN)</th>
<th>Base Square (IN)</th>
<th>Arm Length (FT)</th>
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Ameron Contemporary Series 1C3 prestressed, spun-cast concrete lighting poles are ideal for street lighting, recreational areas, parking lots, park security and walkways. Application can be post top or mast arm. These strong, durable poles are available in optional color finishes that blend attractively with the environment.

General Information
The Ameron tapered spun-cast, prestressed concrete pole is manufactured to obtain optimum strength. Each Ameron pole features accurately placed high-tensile steel prestressing cables; a welded, spirally wrapped wire cage for torsional reinforcement; high-strength centrifugally cast concrete; and a surface treated to insure uniform texture. Ameron poles conform to applicable sections of ACI, AASHTO, ASTM and UBC standards.

Surface Treatment
The concrete shafts are lightly blasted to expose the texture and beauty of the natural aggregates while maintaining sharp definition of details and patterns.

Colors and Finishes
Standard, pre-formulated and custom aggregate colors are available. See separate aggregate sheet for details. Ameron offers Amershield™, a premium graffiti-resistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the removal of graffiti.
Contemporary Series
1C3 - Round Pole - Base Plate

BASE PLATE STYLE - INFORMATION

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>POLE HEIGHT &quot;A&quot;</th>
<th>BASE O.D.</th>
<th>ANCHOR BOLT</th>
<th>BOLT CIRCLE</th>
<th>BASE PLATE (SQ)</th>
<th>ULTIMATE G.L. MOMENT (FT. LBS.)</th>
<th>WEIGHT (LBS.)</th>
<th>MAXIMUM EPA/MPH (SQ FT)*</th>
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<td>1C3-22</td>
<td>22'-8&quot;</td>
<td>9-3/16&quot;</td>
<td>1&quot; x 34&quot; x 4&quot;</td>
<td>12-1/2&quot;</td>
<td>14&quot;</td>
<td>31,400</td>
<td>940</td>
<td>18.5 16.0 14.0</td>
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<td>25'-0&quot;</td>
<td>9-7/16&quot;</td>
<td>1&quot; x 34&quot; x 4&quot;</td>
<td>15-1/4&quot;</td>
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<td>15-1/4&quot;</td>
<td>14&quot;</td>
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<td>46,100</td>
<td>1,770</td>
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*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.

Manufacturer reserves the right to alter the product design without prior notice. Consult Ameron or authorized representative for additional information.
CONTemporary Round Base plate Pole

1. MIX (013): SCE BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
2. ASTM C-150 TYPE III GRAY CEMENT.
3. $f'c\text{ @ 28 DAYS} = 6,000$ PSI, USING SPUN CYLINDER TEST.
4. $f'c\text{ @ 28 DAYS} = 5,000$ PSI, USING ASTM C-31 CYLINDER TEST.
5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
7. BASEPLATE PRESTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.
8. LMA ASSEMBLY IS DESIGNED TO ROTATE TO ANY ORIENTATION PER CUSTOMER'S REQUIREMENTS.
9. THE SINGLE TOP MOUNT STEEL TAPERED LMA ASSEMBLY (NOT TO EXCEED 6' ARM LENGTH PER ARM SIDE, 2.1 SQ. FT EPA, 35 POUNDS) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ARM END TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 POUNDS); THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE ARM & THE LUMINAIRE AS DESIGNED PER THE 2013 AASHTO LTS-6 USING A 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. PLEASE ADVISE & CONTACT MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.
10. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.
11. SEE OTHER DRAWING FOR "R" COATING 1706-076.
1. MIX (013I): BLACK & WHITE, EXPOSED AGGREGATE FINISH
2. ASTM C-150 TYPE III GRAY CEMENT
3. f'c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST
4. f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST
5. POLES MANUFACTURED PER ASTM C-1089-06 SPECIFICATIONS
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS
7. BASEPLATE PRESTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.
8. ARM ASSY. CAN BE ROTATED IN ANY ORIENTATION

CONTEMPORARY ROUND BASE PLATE POLE

POLE TOP/STUD DETAIL

BASE DETAIL

THE DOCUMENT CONTAINED HEREIN WHEN DISTRIBUTED TO ANYONE IS FOR INFORMATION PURPOSES ONLY AND SHALL NOT BE DISCLOSED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF AMERON.

DRAWN: J.C. 10/05 SCALE: N.T.S. DWG. NO: SK102405 REV: B

PRINTED BY: DIANNE GARNER ON TUESDAY, JULY 05, 2016

CITY & COUNTY OF SAN FRANCISCO
SAN FRANCISCO, CA
1C326 W/ DOUBLE ARM ASSY.

APPROVED BY:
DATE:
Ameron Contemporary Series 2B2 prestressed, spun-cast concrete lighting poles are ideal for street lighting, recreational areas, parking lots, park security and walkways. Application can be post top or mast arm. These strong, durable poles are available in optional color finishes that blend attractively with the environment.

General Information
The Ameron tapered spun-cast, prestressed concrete pole is manufactured to obtain optimum strength. Each Ameron pole features accurately placed high-tensile steel prestressing cables; a welded, spirally wrapped wire cage for torsional reinforcement; high-strength centrifugally cast concrete; and a surface treated to insure uniform texture. Ameron poles conform to applicable sections of ACI, AASHTO, ASTM and UBC standards.

Surface Treatment
The concrete shafts are lightly blasted to expose the texture and beauty of the natural aggregates while maintaining sharp definition of details and patterns.

Colors and Finishes
Standard, pre-formulated and custom aggregate colors are available. See separate aggregate sheet for details. Ameron offers Amershield™, a premium graffiti-resistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the removal of graffiti.
## BASE PLATE STYLE - INFORMATION

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<th>BASE O.D.</th>
<th>ANCHOR BOLT</th>
<th>BOLT CIRCLE</th>
<th>BASE PLATE (SQ)</th>
<th>ULTIMATE G.L. MOMENT (FT. LBS.)</th>
<th>WEIGHT (LBS.)</th>
<th>MAXIMUM EPA/MPH (SQ FT)*</th>
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<td>14&quot;</td>
<td>13&quot;</td>
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<td>820</td>
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<td>2B2-26</td>
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<td>11-3/4&quot;</td>
<td>1” x 36&quot; x 4&quot;</td>
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<td>13&quot;</td>
<td>17,800</td>
<td>900</td>
<td>9.5 7.0 4.5</td>
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*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.

**Notes**

**SPECIFICATIONS**
Use Contemporary Specifications.

**LUMINAIRE MOUNTING**
See Technical-Mounting Options Section for more information.

**COLORS & FINISHES**
See Color Selection Guide.

**ANTI-GRAFFITI & SEALER**
Optional Coatings available for added protection.

Manufacturer reserves the right to alter the product design without prior notice. Consult Ameron or authorized representative for additional information. 08/11
**2B2- DECORATIVE BASE- BASEPLATE- ROUND POLE**

(4) POLES REQ'D EACH W/ 4' ALUM. PIPE ARM ASSY. (P/N: 2AP4A)

**SCALE DRAWN:**

**CHK'D:**

**DWG. NO.**

**REV.**

**DATE**

**DESCRIPTION**

**DRN. APPR.**

---

**NOTES:**

1. MIX (013I): SCE BLACK/ WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.

2. ASTM C-150 TYPE III GRAY CEMENT.

3. **f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.**

4. **f'c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.**

5. POLES MANUFACTURED PER ASTM C1089-06 SPECIFICATIONS.

6. **PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.**

7. **ASTM A-36 STEEL BASE PLATE FULLY PRE-STRESSED WITH (4) ASTM A-416 PRESTRESSING CABLES.**

8. ARM ASSY. MAY BE ROTATED TO ANY ORIENTATION.

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**APPROVED BY:**

**DATE:**

---

**CITY OF SAN FRANCISCO #1025 -- SAN FRANCISCO, CA**

**2B226 POLE WITH LMA ASSEMBLY**

---

**ENTRY OPTION CLASS**

**LEVEL CONFIG CODES**

---

**BASE DETAIL**

**BASEPLATE DETAIL**

---

**POLE PRODUCTS DIVISION**

**DRAWN:** J.C. 6/05  **SCALE:** N.T.S.  **DWG. NO.:** SK064105  **REV.:** B
Ameron Contemporary Series 5B1 - 5B7 prestressed, spun-cast concrete lighting poles are ideal for street lighting, recreational areas, parking lots, park security and walkways. Application can be post top or mast arm. These strong, durable poles are available in optional color finishes that blend attractively with the environment.

**General Information**

The Ameron tapered spun-cast, prestressed concrete pole is manufactured to obtain optimum strength. Each Ameron pole features accurately placed high-tensile steel prestressing cables; a welded, spirally wrapped wire cage for torsional reinforcement; high-strength centrifugally cast concrete; and a surface treated to insure uniform texture. Ameron poles conform to applicable sections of ACI, AASHTO, ASTM and UBC standards.

**Surface Treatment**

The concrete shafts are lightly blasted to expose the texture and beauty of the natural aggregates while maintaining sharp definition of details and patterns.

**Colors and Finishes**

Standard, pre-formulated and custom aggregate colors are available. See separate aggregate sheet for details. Ameron offers Amershield™, a premium graffiti-resistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the removal of graffiti.
Contemporary Series
5B1 - 5B7 Decorative Base Octagonal Pole - Base Plate

**SPECIFICATIONS**
Use Contemporary Specifications.

**LUMINAIRE MOUNTING**
See Technical-Mounting Options Section for more information.

**COLORS & FINISHES**
See Color Selection Guide.

**ANTI-GRAFFITI & SEALER**
Optional Coatings available for added protection.

Manufacturer reserves the right to alter the product design without prior notice. Consult Ameron or authorized representative for additional information.

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**BASE PLATE STYLE - INFORMATION**

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<th>CATALOG NUMBER</th>
<th>POLE HEIGHT &quot;A&quot;</th>
<th>BASE O.D.</th>
<th>ANCHOR BOLT</th>
<th>BOLT CIRCLE</th>
<th>BASE PLATE (SQ)</th>
<th>ULTIMATE G.L. MOMENT (FT. LBS.)</th>
<th>WEIGHT (LBS.)</th>
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*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.

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**Notes**

use 4- 1"X42"X4" Anchor bolts
1. MIX (013I): EDISON BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
2. ASTM C-150 TYPE III GRAY CEMENT.
3. f'c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.
4. f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
7. BASEPLATE PRESTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.
8. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.
9. EVEN THOUGH THE POLE DEPICTED ON THIS DRAWING DOES NOT REFLECT ANY SHOWN ARM LOADS (AS IT IS A DRAWING OF A SHAFT-ONLY POLE FOR STOCKING PURPOSES); IT IS DESIGNED & INTENDED TO WITHSTAND THE LOADS IMPARTED BY A 8' SINGLE TOP MOUNT LMA ASSEMBLY, AMERON: 1AP8A OR EQUIVALENT, [NOT TO EXCEED 2.5 SQ. FT. E.P.A, 25 LBS. (ARM & CAN COMBINED)] WITH ARM HOLDING A LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. E.P.A, 50 LBS) PER THE 2013 AASHTO LTS-6 USING A 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. PLEASE CONTACT & ADVISE AMERON ENGINEERING IF INTENDED LOADING EXCEEDS THESE VALUES.

COMPLIANCE TO ANY CODE NOT EXPLICITLY LISTED ON THIS DRAWING IS NOT GUARANTEED. PLEASE CONTACT AMERON IF YOU HAVE SPECIFIC CODE REQUIREMENTS.
1. MIX (013I): EDISON BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.

2. ASTM C-150 TYPE III GRAY CEMENT.

3. $f'_c$ @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.

4. $f'_c$ @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.

5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.

6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.

7. BASEPLATE PRESSTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.

8. TOP MOUNTED OCTAGONAL ARM BRACKET IS DESIGNED TO ALIGN WITH ANY OF THE POLES OCTAGONAL FLATS PER THE CUSTOMER'S REQUIREMENTS.

9. THE SINGLE 6' LUMINAIRE MAST ARM (NOT TO EXCEED 2.1 SQ. FT. EPA, 20 LBS) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ARM END TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 LBS); THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE SINGLE ARM AND THE SINGLE LUMINAIRE, AS DESIGNED USING THE 2013 AASHTO LTS-6 USING A 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.

10. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.
CONTEMPORARY ROUND BASE PLATE POLE

SPUNCAST, PRESTRESSED CONCRETE POLE

POLE TOP STUD DETAIL

BASE DETAIL

BASE PLATE DETAIL

POLE ORIENTATIONS

POLE TOP STUD DETAIL

POLE LENGTH 28'-1"
POLE HEIGHT ABOVE GRADE 27'-10"

GRADE LINE

15" TO 16" D.B.C.
14" SQ. X 1" ST. PL.
ASTM A36

3-3/4" ± 1/2" I.D.
RACEWAY CLEARANCE

9-7/8" DIA.

(4) 1-1/4" DIA. X 1-3/4" LG. SLOTS

180°

HANGHOLE OPENING 2-1/4" X 5" WITH ALUMINUM COVER Ø 0" COVER TO BE ATTACHED PRIOR TO SHIPMENT WITH STANDARD (STD) DOOR SCREWS

HANGHOLE

POLE TOP STUD DETAIL

TOP MOUNT LMA ASSEMBLY ATTACHES WITH GALV. STEEL ROD PLATE, (4) HEX NUTS, & WASHERS (INCLUDED WITH POLE) (STANDARD MOD90 POLE TOP) (4) 1/2-13UNC STUDS GALV. STEEL X 12" LG. @ 90° APART WITH HEX NUTS & WASHERS ON A 3-11/16" DIA. BOLT CIRCLE

POLE TOP CON. MOD90

POLE ORIENTATIONS

(4) 1" GALV. ANCHOR BOLTS WITH HEX NUTS & WASHERS ASTM F1554 GRADE 36 (F.N.: 75 765 OR EQUIVALENT BY OTHERS) DEFAULT ANCHOR BOLT SHOWN. FOUNDATION DESIGN IS BY OTHERS. SPECIFIC FOUNDATION DESIGNS MAY REQUIRE ALTERNATIVE BOLT REQUIREMENTS

POLE ORIENTATIONS:
1. MIX (013I): SCE BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
2. ASTM C-150 TYPE III GRAY CEMENT.
3. f'c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.
4. f'c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
7. BASEPLATE PRESTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.
8. LMA ASSEMBLY IS DESIGNED TO ROTATE TO ANY ORIENTATION PER CUSTOMER'S REQUIREMENTS.
9. THE SINGLE TOP MOUNT STEEL TAPPED LMA ASSEMBLY (NOT TO EXCEED 6' ARM LENGTH PER ARM SIDE, 2.1 SQ. FT, EPA, 35 POUNDS) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ARM END TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT, EPA, 50 POUNDS); THE POLE DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE ARM & THE LUMINAIRE AS DESIGNED PER THE 2013 AASHTO LTS-6 USING A 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. PLEASE ADVISE & CONTACT MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.
10. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.
11. SEE OTHER DRAWING FOR "F" COATING 1706-075.

NOTES:
**GRADE 9-3/4" OCT. BASE DETAIL 3" 36" 8-3/4" OCT.**

**APPR. REV. DATE**

**DESCRIPTION**

**DATE APPROVED BY**

**"F" LEVEL CONFIG CODES**

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**"P" LEVEL CONFIG CODES**

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<td>BASEPLATE</td>
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**POLE TOP CON.**

**MOD90**

**DRN. INFO.**

1. **INFO.**
   - **MOD90**
   - **45293-1**
   - **301**

**POLE ORIENTATIONS**

- **TOP MOUNT LMA ASSEMBLY ATTACHES WITH GALV. STEEL ROD PLATE, (4) HEX NUTS, & WASHERS (ALL INCLUDED WITH POLE)**
- **STUD EXTENSION**

---

**POLE TOP/STUD DETAIL**

**BASE DETAIL**

**BASEPLATE DETAIL**

**DECORATIVE BASE PLATE OCTAGONAL POLE**

**NOTE:**

1. MIX (013I): EDISON BLACK & WHITE, EXPOSED AGGREGATE FINISH WITH AMERSHIELD ANTI-GRAFFITI COATING.
2. ASTM C-150 TYPE III GRAY CEMENT.
3. f’c @ 28 DAYS = 6,000 PSI, USING SPUN CYLINDER TEST.
4. f’c @ 28 DAYS = 5,000 PSI, USING ASTM C-31 CYLINDER TEST.
5. POLES MANUFACTURED PER ASTM C-1089-13 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
7. BASEPLATE PRESTRESSED WITH (8) 5/16" DIA. A-416 (7-STRAND) CABLES.
8. TOP MOUNTED OCTAGONAL ARM BRACKET IS DESIGNED TO ALIGN WITH ANY OF THE POLES OCTAGONAL FLATS PER THE CUSTOMER'S REQUIREMENTS.
9. THE SINGLE 8' LUMINAIRE MAST ARM (NOT TO EXCEED 2.5 SQ. FT. EPA, 25 LBS) DEPICTED ON THIS DRAWING IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY A SINGLE ARM END TYPE LUMINAIRE (NOT TO EXCEED 2.5 SQ. FT. EPA, 50 LBS); THE POLE DEPICTED IS DESIGNED TO WITHSTAND THE LOADS IMPARTED BY THE SINGLE ARM AND THE SINGLE LUMINAIRE, AS DESIGNED USING THE 2013 AASHTO LTS-6 USING A 90 MPH WIND ZONE (3-SECOND GUSTS) CRITERIA FOR STREET LIGHT POLES. PLEASE CONTACT & ADVISE MANUFACTURER IF THE INTENDED LOADING EXCEEDS THESE VALUES.
10. POLE SHOWN IS SUITABLE FOR CAPPED BASEPLATE (ENCASED IN CONCRETE), OTHERWISE, OTHER NON-CAPPED INSTALLATION REQUIRES A GALVANIZED BASEPLATE.

---

**CITY OF SAN FRANCISCO, CA**

**5B129 POLE WITH 1AP8A ARM**

**APPROVED BY**

**DATE**

**REV. DATE**

**DESCRIPTION**

**DRN.**

**NOTE:**

- **SCALE:**
- **DRAWN:**
- **DWG. NO.:**
- **N.T.S.:**
- **REV.:**
- **DATE:**
- **2012-029**

---

**COMPLIANCE TO ANY CODE NOT EXPLICITLY LISTED ON THIS DRAWING IS NOT GUARANTEED. PLEASE CONTACT NATIONAL OILWELL VARCO IF YOU HAVE SPECIFIC CODE REQUIREMENTS.**
**Base Detail**

- **Baseplate (ASTM A-36)**: Fully prestressed with (8) 5/16" Dia. prestressing cables (ASTM A-416).
- **Top Mount LMA Assembly**: Designed to orient to any of the octagonal flats per customer requirements.
- **Group ModelRW**: D & E (1) 3/4" NPS (straight) pipe coupling as shown. MODELRW: Drill race way as required.

**NOTES:**

1. Mix (403I): Gray natural, exposed aggregate finish, with Amershield anti-graffiti coating.
2. ASTM C-150 Type III gray cement.
3. f'c @ 28 days = 6,000 PSI, using spun cylinder test.
4. f'c @ 28 days = 5,000 PSI, using ASTM C-31 cylinder test.
5. POLES MANUFACTURED PER ASTM C-1089-06 SPECIFICATIONS.
6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.
8. TOP MOUNT LMA ASSEMBLY DESIGNED TO ORIENT TO ANY OF THE OCTAGONAL FLATS PER CUSTOMER REQUIREMENTS.
9. GROUP MODELRW: MODEL: D & E (1) 3/4" NPS (straight) pipe coupling as shown. MODELRW: Drill race way as required.

**APPROVED BY**

CITY OF SAN FRANCISCO #55D – SAN FRANCISCO, CA

5B126 POLE WITH 1AP6DA ARM ASSEMBLY

5B126 POLE WITH 1AP6DA ARM ASSEMBLY

MODRW: DRILL RACE WAY AS REQUIRED.
1. MIX (37I): BLACK & WHITE LA, EXPOSED AGGREGATE FINISH WITH AMER SHIELD ANTI-GRAFFITI COATING.

2. ASTM C-150 TYPE III GRAY CEM.

3. $f'c @ 28$ DAYS $= 6,000$ PSI, USING SPUN CYLINDER TEST.

4. $f'c @ 28$ DAYS $= 5,000$ PSI, USING ASTM C-31 CYLINDER TEST.

5. POLES MANUFACTURED PER ASTM C-1089-97 SPECIFICATIONS.

6. PROTECTIVE COAT EXPOSED P.C. WIRES AT POLE ENDS.


8. TOP MOUNT LMA ASSEMBLY IS DESIGNED TO ORIENT TO ANY OF THE OCTAGONAL PLATS PER CUSTOMER REQUIREMENTS.
Specifications

POST DESCRIPTION
The lighting post shall consist of a decorative, octagonal clamshell base, a tapered, octagonal shaft, and an octagonal-pattern single-arm crossarm with 1 1/2" NPT fitting for luminaire mounting.

MATERIALS
The base material shall be heavy-wall cast iron (ASTM A48, class 30), formed true to pattern with complete detail. The shaft shall high strength steel with tenon and anchor plate. The crossarm shall be heavy-wall cast aluminum (356.1 alloy), formed true to pattern with complete detail.

DIMENSIONS
The post shall be 22'-0" in height with a 32" tall x 19-1/2" (flat-to-flat) octagonal base. The 11-gauge (.1196" wall) octagonal shaft shall taper from 9.3" at the anchor plate to 5.2" at post top. A 4-1/2"Ø x 5" tall tenon shall be sl post top for crossarm mounting.

INSTALLATION
Post shall be provided with (4) Ø1-1/4" hot dipped galvanized, L-type anchor bolts to be installed on a Ø4" bolt circle. Two doors are located in the base and tamper proof screws, one coinciding with the shaft handhole, for wiring access.

FINISH
Post assembly shall be furnished with a AS powder coat finish. Shaft assembly shall be hot-dip galvanized prior to finishing.

LUMINARIA DESCRIPTION
For complete specifications see.

Anchorage Detail

Catalog #’s:
(AOL-8207-02)/SF22-11GA-T-AS - SF20CI-AS - SFC24-AS - AB1.25X48

San Francisco Streets
San Francisco, CA

ORDER #: TYPE:
REVISION: 2 REVISION DATE: 09/01/11
DRAWN: ACH ORIGIN DATE: 10-09-07
DRAWING #: TSG 003216
PAGE: 1 of 2
Specifications

POST DESCRIPTION
The lighting post shall consist of a decorative, octagonal clamshell base, a tapered, octagonal shaft, and an octagonal-pattern twin-arm crossarm with 1 1/2" NPT fitting for luminaire mounting.

MATERIALS
The base material shall be heavy-wall cast iron (ASTM A48, class 30), formed true to pattern with complete detail. The shaft shall high strength steel with tenon and anchor plate. The crossarm shall be heavy-wall cast aluminum (356.1 alloy), formed true to pattern with complete detail.

DIMENSIONS
The post shall be 27'-0" in height with a 32" tall x 19-1/2" (flat-to-flat) octagonal base. The 11-gauge (.1196" wall) octagonal shaft shall taper from 9.3" at the anchor plate to 5.2" at post top. A 4-1/2"Ø x 5" tall tenon shall be set post top for crossarm mounting.

INSTALLATION
Post shall be provided with (4) Ø1-1/4" hot-dip galvanized, L-type anchor bolts to be installed on a Ø14" bolt circle. Two doors are located in the base and tamper proof screws, one coinciding with the shaft handlehole, for wiring access.

FINISH
Post assembly shall be furnished with a AS powder coat finish. Shaft assembly shall be hot-dip galvanized prior to finishing.

LUMINAIRE DESCRIPTION
For complete specifications see.

San Francisco Streets
San Francisco, CA

ORDER #: TYPE:
REVISION: 2 REVISION DATE: 09/01/11
DRAWN: ACH ORIGIN DATE: 10-09-07
DRAWING #: TSG 003216 PAGE: 2

Catalog #: (AOL-8267-02)/SF22-11GA-T-AS - SF20C1-AS - SFC48-AS - AB1.25X48

An AcuityBrandsCompany

This drawing, when approved, shall become the complete specification for the materials to be furnished by Holophane or the order noted above, a unit of similar design may be supplied, but only after approval by the customer. In疑问, on pole orders an anchor bolt template print will be supplied with each anchor bolt. To order with the pole provided, this print is the property of Holophane and is deemed subject to return upon demand and upon express condition that it will not be used directly or indirectly in any way detrimental to our interests, and only in connection with material furnished by Holophane.
MATERIAL SPECIFICATIONS:

POLE SHAFT: COMM. GRADE STEEL 55 K.S.I. MIN. YIELD
BASE PLATE: ASTM A36, 55 K.S.I. MIN. YIELD
ANCHOR BOLT: ASTM F1554, 55 K.S.I. MIN. YIELD

Entire standard to be hot dip galvanized in accordance with ASTM A123. [G]

POLE CAP & SIMPLEX DETAIL

2-BOLT SIMPLEX [S2]

(2) 1/2-13 x 1" BOLT A325
W/ LOCK WASHER
SIDE REINFORCING GUSSET
(BOTH SIDES)

REMOVABLE POLE CAP
W/ (3) 1/4-20 SET SCREW
@ 120° APART

POLE CAP & SIMPLEX DETAIL

DATA TABLE

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<tr>
<th>CATALOGUE ITEM</th>
<th>POLE SHAFT LENGTH</th>
<th>POLE SHAFT BASE O.D.</th>
<th>POLE SHAFT TOP O.D.</th>
<th>POLE SHAFT THK.</th>
<th>MOUNTING H.T.</th>
<th>ARM LENGTH</th>
<th>ARM RISE</th>
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<td>30'-0&quot;</td>
<td>6'-0&quot;</td>
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HANDHOLE DETAIL

1/4" DIA. THRU HOLE (VERTICAL)

GROUNDING PROVISION
5/16-18 UNC TAPPED HOLE (HORIZONTAL)
(TAPPED 3/4" Deep)

HOLE (HORIZONTAL)
(TAPPED 3/4" DEEP)

4" X 6 1/2" HANDHOLE
W/ GASKET & COVER
(SEE DETAIL)

SPECIAL BASE COVER [SBC]
(SEE DETAIL)

SPECIAL BASE PLATE [SBP]
(SEE DETAIL)

(4) ANCHOR BOLT
(1" X 42" X 4")
THREADED END GALV.
A MIN. OF 9".

4" X 6 1/2" HANDHOLE
W/ GASKET & COVER
(SEE DETAIL)

SPECIAL BASE COVER [SBC]
(SEE DETAIL)

SPECIAL BASE PLATE [SBP]
(SEE DETAIL)

(4) ANCHOR BOLT
(1" X 42" X 4")
THREADED END GALV.
A MIN. OF 9".

FOR APPROVAL ONLY

PRINT NAME: ____________________________
SIGNATURE: ____________________________
DATE: _________________________________

CHANGED BOLT CIRCLE, ARM RISE & SHAFT LENGTH

23967 JU 4/10/2020

A. 25518

CITY OF SAN FRANCISCO
UPSweep ARM POLES
SINGLE ARMS

K W

K W INDUSTRIAL DIV. • TULARE LAND, TULARE COUNTY

DRAWN BY: ____________________________
CHECKED BY: _________________________
APPROVED: __________________________
PREPARED: __________________________

1 OF 2
**City of San Francisco - Lumec SMN 16’ pole** (fits 1 x 42 x 4 bolts, 10.5 -11.5 BC, inside paint)

**Description of Components:**

**Pole Shaft:** Shall be made from a 4” (102mm) round high tensile carbon steel tubing, having a 0.188” (4.8mm) wall thickness, welded to the pole base.

**Joint Cover:** One-piece round joint cover made from cast 356 aluminum.

**Pole Base:** Shall be made from a 6 5/8” (168mm) round high tensile carbon steel tubing base having a 0.180” (4.6mm) wall thickness, welded to both the bottom and top of the anchor plate.

**Maintenance Opening:** The pole shall have a 4 1/2” x 10” (114mm x 254mm) maintenance opening centered 21” (533mm) from the bottom of the anchor plate, complete with a weatherproof embossed aluminum cover and a copper ground lug.

**Base Cover:** Two piece round base cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

**Pole Options:** (BLN1) Anchor plate accepting 1” (25mm) O.D. bolts.

(IP) The pole inner wall will be painted.

**Note:** A tenon will be provided when the luminaire or bracket does not fit directly on pole shaft. Tenon not shown on the drawing.

**IMPORTANT:** Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.

**Pole Weight:** 130 lbs (59.1 kg)
MATERIAL SPECIFICATIONS

TUBES: CHEM. & PHYSICAL PROP. OF ASTM A595 GR. A PLATE, BAR: ASTM A36
ANCHOR BOLTS: ASTM A307 TOP END GALV. TO A153
ANCHOR BOLT NUTS: ASTM A563 GR. A GALV. TO A153
MISC. HDWE. (SIN, STL.) A203 300 SERIES (18-8)
STEEL TENON TUBE: ASTM A513
MISC. STEEL HDWE: ASTM A307 GALV. TO A153
ALUMINUM CASTINGS: A319
FINISH: H.D. GALV. TO ASTM A123 & POWDER COATED (CUSTOMER TO SPECIFY COLOR)

DESIGN CRITERIA:

1. DESIGNED IN ACCORDANCE WITH 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" FOR 80 M.P.H. WIND ZONE.

2. ANCHOR BOLTS ANALYZED FOR STEEL STRENGTH ONLY. THE ANCHOR BOLT EMBEDMENT LENGTH SHOWN ON THIS DRAWING SHALL BE VERIFIED BY THE FOUNDATION ENGINEER.

3. CUSTOMER TO CONFIRM ALL DIMENSIONS & ORIENTATIONS BEFORE RELEASING ORDER FOR MANUFACTURING.
**VIBRATION DISCLAIMER**

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES, BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES. VIBRATIONS ARE GENERALLY UNPREDICTABLE.

THE USERS MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXISTING VIBRATION AND STABILIZATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. THE WARRANTY SPECIFICALLY EXCLUDES FAULTY WORK OR BEHAVIOR PHENOMENA RESULTING FROM INDUCED VIBRATIONS. HANDHOLE DENTATION OR CRACKING ASSOCIATED WITH APPLICATION OF AN EXTERNAL LOAD AROUND THE PRODUCT.

**POLE DATA**

- **ITEM:** RPD308669
- **QTY:** 1
- **BASE OVL. 1/4" THK:** 6.30
- **TOP OVL. 1/4" THK:** 11.00
- **CALC'D THK:** 10.00
- **BOLT CIRCLE "D" (IN):** 1.00
- **SLOT (IN):** 0.00
- **DIA. "K" (IN):** 1.00
- **LENGTH "O" (IN):** 4.00
- **THD "N" (IN):** 4.00
- **ANCHOR BOLTS:** BY OTHERS

**NOTES FOR CUSTOMER:**
1. **DECK BASE PROVIDED BY HOLOPHANE, HANDHOLE LOCATION AND FLUTE STOP LOCATION MUST BE VERIFIED PRIOR TO RELEASE.**
2. **ALL OTHER LOCATIONS/orientations to be verified prior to release (See Sheet 2),**
3. **VALMONT IS NOT RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE EXISTING ANCHORAGE,**
4. **APPROVED, SIGNED DRAWING MUST ACCOMPANY PO.**

**16' Pole, Bolt Circle Slotted 10" to 11"**

**APPROVED**