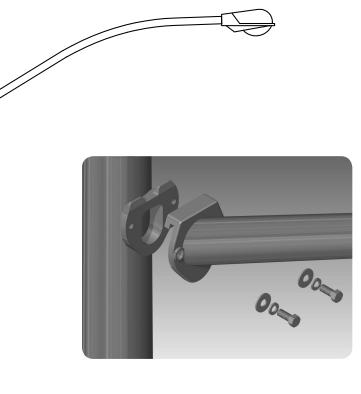


Series PL Elliptical Tapered Luminaire Arm



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.

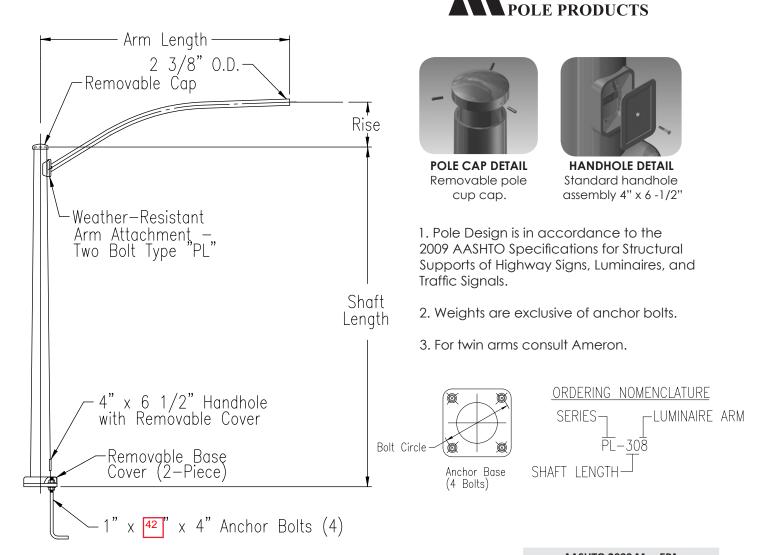
FINISH:

Poles and arms are galvanized in conformance to ASTM A123.

OPTIONS:

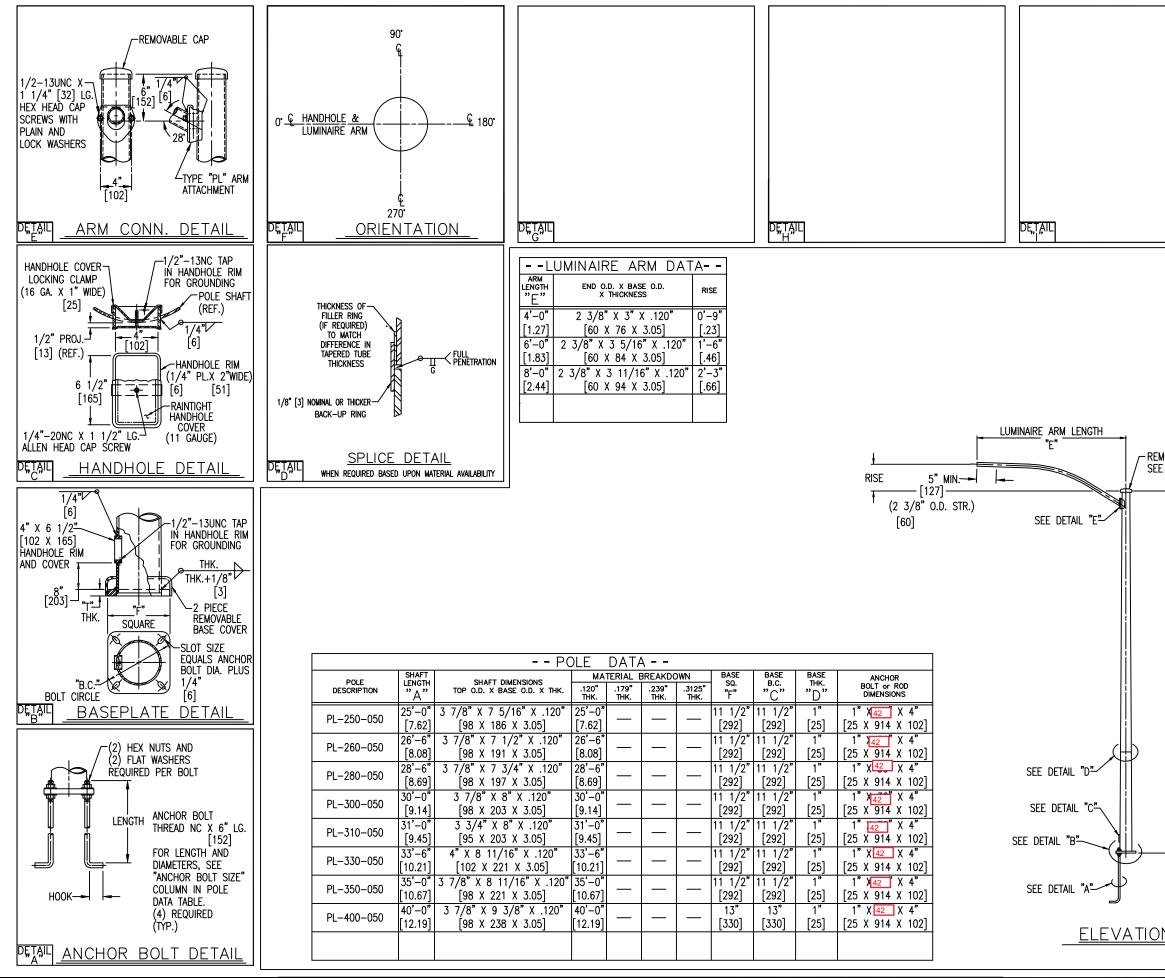
See Page 20 for options and accessories.

Series PL Elliptical Tapered Arm

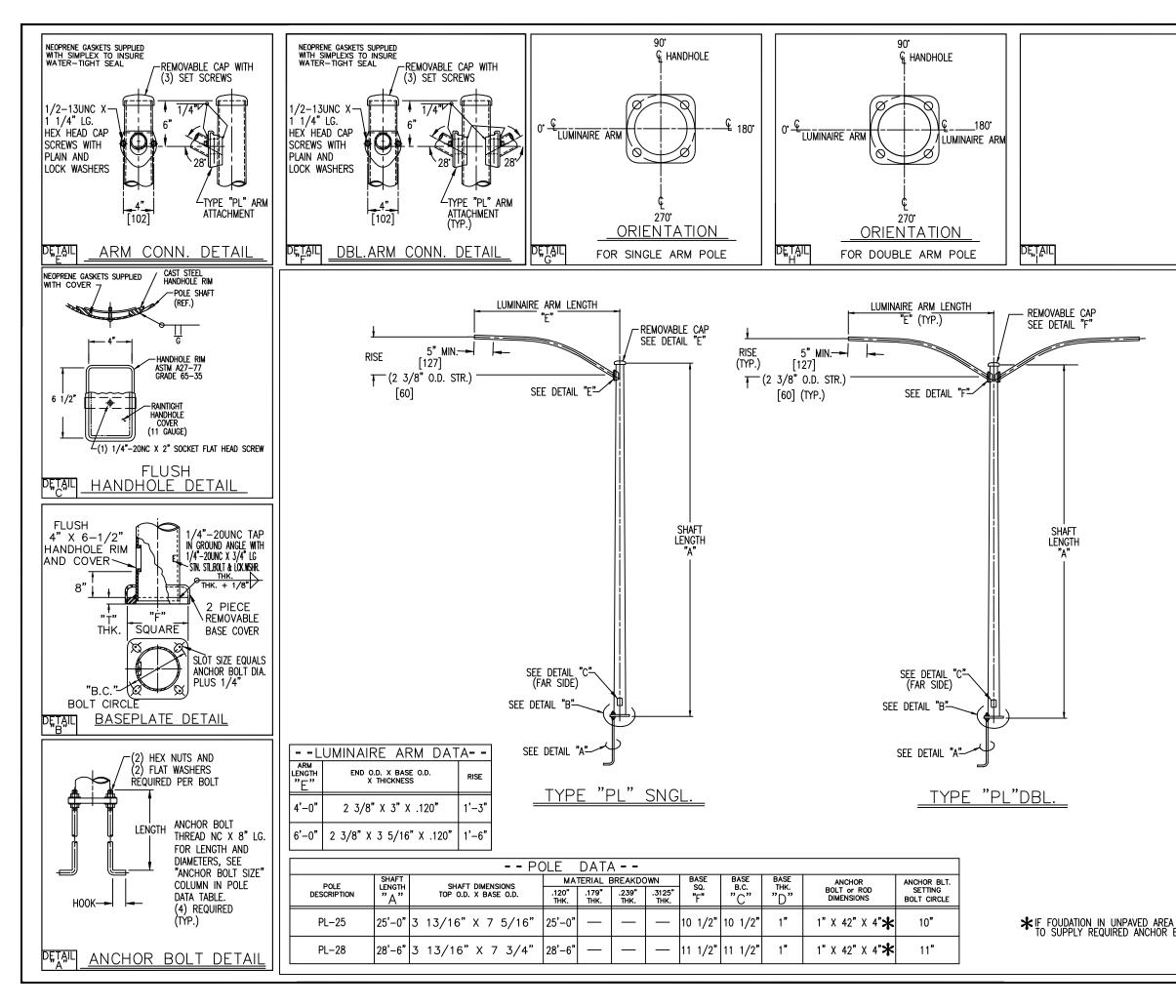


MER

| | 1 | | | | | | | | | A | ASHTO 20 | 09 Max EF | PA |
|-------------------|-------------------------|------------------|-----------------|----------------|----------------|------------------------|-----------------------|---------|-----------------|--------|----------|-----------|---------|
| Catalog Number | Shaft Length (FT) | Bolt Dia (IN) | Base OD (IN) | BC Min (IN) | BC Max (IN) | Base Square (IN) | Arm Length (FT) | Rise | Weight (LBS) | 90 MPH | 100 MPH | 110 MPH | 120 MPH |
| PL204 | 20 | 1 | 6.625 | 9.25 | 11.5 | 11.5 | 4 | 0' - 9" | 193 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL206 | 20 | 1 | 6.625 | 9.25 | 11.5 | 11.5 | 6 | 1' - 6" | 200 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL208 | 20 | 1 | 6.625 | 9.25 | 11.5 | 11.5 | 8 | 2′ - 3″ | 210 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL254 | 25 | 1 | 7.313 | 10 | 11.5 | 11.5 | 4 | 0' - 9" | 237 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL256 | 25 | 1 | 7.313 | 10 | 11.5 | 11.5 | 6 | 1' - 6" | 244 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL258 | 25 | 1 | 7.313 | 10 | 11.5 | 11.5 | 8 | 2' - 3" | 254 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL264 | 26.5 | 1 | 7.519 | 10 | 11.5 | 11.5 | 4 | 0' - 9" | 252 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL266 | 26.5 | 1 | 7.519 | 10 | 11.5 | 11.5 | 6 | 1' - 6" | 259 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL268 | 26.5 | 1 | 7.519 | 10 | 11.5 | 11.5 | 8 | 2' - 3" | 269 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL284 | 28.5 | 1 | 7.794 | 10.25 | 11.5 | 11.5 | 4 | 0' - 9" | 270 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL286 | 28.5 | 1 | 7.794 | 10.25 | 11.5 | 11.5 | 6 | 1' - 6" | 278 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL288 | 28.5 | 1 | 7.794 | 10.25 | 11.5 | 11.5 | 8 | 2′ - 3″ | 288 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL304 | 30 | 1 | 8 | 10.5 | 11.5 | 11.5 | 4 | 0' - 9" | 285 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL306 | 30 | 1 | 8 | 10.5 | 11.5 | 11.5 | 6 | 1' - 6" | 292 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL308 | 30 | 1 | 8 | 10.5 | 11.5 | 11.5 | 8 | 2' - 3" | 303 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL354 | 35 | 1 | 8.688 | 11.25 | 11.5 | 11.5 | 4 | 0' - 9" | 341 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL356 | 35 | 1 | 8.688 | 11.25 | 11.5 | 11.5 | 6 | 1' - 6" | 348 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL358 | 35 | 1 | 8.688 | 11.25 | 11.5 | 11.5 | 8 | 2' - 3" | 358 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL404 | 40 | 1 | 9.375 | 12 | 13 | 13 | 4 | 0' - 9" | 429 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL406 | 40 | 1 | 9.375 | 12 | 13 | 13 | 6 | 1' - 6" | 436 | 3.3 | 3.3 | 3.3 | 3.3 |
| PL408 | 40 | 1 | 9.375 | 12 | 13 | 13 | 8 | 2' - 3" | 446 | 3.3 | 3.3 | 3.3 | 3.3 |



| | – – GENERAL NOTES– – |
|---------------------------------|---|
| | MATERIAL SPECIFICATIONS |
| | SHAFT STEEL OF 48 K.S.I. MINIMUM |
| | YIELD AFTER FABRICATION |
| | BASEPLATES AND ASTM A-36 FLANGES |
| | PIPE ASTM A-53 GR. B |
| | OR A-500 GR. B |
| | ANCHOR BOLTS ASTM F1554 GR. 55 |
| | MANUFACTURING PROCESSES |
| | BUTT WELDS GROUND FLUSH WITH BASE METAL LONGITUDINAL BUTT WELDED BY THE ELECTRICAL |
| | WELDS RESISTANCE WELD PROCESS |
| | CIRCUMFERENTIAL BUTT WELD WITH PERMANENT |
| | WELDS BACK-UP RING FINISH COATING |
| | STRUCTURE HOT DIP GALVANIZE PER ASTM |
| | A-123 |
| | HARDWARE HOT DIP GALVANIZE PER ASTM A-153 |
| | DESIGN CRITERIA |
| | STRUCTURE IN ACCORDANCE WITH THE "SPEC- AND HARDWARE IFICATIONS FOR STRUCTURAL SUPPORTS OF HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS," AASHTO 1994 |
| | WELDING IN ACCORDANCE WITH LATEST EDITION |
| | OF AWS D1.1 WELDING CODE |
| | NOTES: ORDERING NOMENCLATURE |
| | SERIESLUMINAIRE ARM |
| | |
| REMOVABLE CAP SEE DETAIL "E" | PL-266-050 SHAFT LENGTH-J LDWG. NO. |
| | SHAFI LENGIH — DWG. NU. |
| | DIMENSIONS IN [] ARE METRIC. FEET CONVERT TO METERS, INCHES TO MILLIMETERS. SINGLE ARM POLES ARE DESIGNED IN ACCORDANCE WITH 1994 AASHTO FOR A MAX. OF 100 MPH WIND ZONE WITH AN EPA OF 2.0 SQ. FT. THE COMPONENT DETAILS ARE BASED ON DESIGNS THAT HAVE BEEN REVIEWED AND STAMPED BY A PROFESSIONAL ENGINEER AND ARE ON FILE WITH THE MANUFACTURER. |
| SHAFT LENGTH "A" | |
| | L 12/14 REV. UPDATE NOTES RJR MHM |
| | K 8/12 REV. MATERIAL SPEC. BB JJ |
| | J 3/12 REV. SPLICE DETAIL BB JJ |
| <u> </u> | I 5/11 REV. BASE O.D. OF PL33 BB JB H 12/08 REV. PIPE MATERIAL BB RD |
| | REV DATE DESCRIPTION BY APPR |
| | |
| | AUMERON DIVISION |
| | "PL" SERIES LIGHTING STANDARD |
| ON | |
| | THE DOCUMENT CONTAINS INFORMATION WHICH IS PROPRIETARY TO AMERICA. IT SHALL NOT BE REPACQUED, USED ON DISCLOSED TO ANTONE WITHOUT THE PROCH WITTEN PERMISSION OF AMERICAL |
| | DRAWN : N.H. DATE : 5/95 SCALE DWG. NO. REV. |
| | APPR : DATE : N.T.S. 050 L |
| | |



| | GE | NERAL NOTES |
|--------------|------------------------|---|
| | | L SPECIFICATIONS |
| | | EEL OF 48 K.S.I. MINIMUM |
| | | ELD AFTER FABRICATION |
| | | STM A-36 |
| | I FLANGES I PIPE AS | STM A-53 GR. B or A-500 GR. B |
| | | STM F1554 GR. 55 |
| | · · · · · | |
| | | ROUND FLUSH WITH BASE METAL |
| | LONGITUDINAL BU | JTT WELDED BY THE ELECTRICAL |
| | | SISTANCE WELD PROCESS |
| | | JTT WELD WITH PERMANENT ACK-UP RING |
| | | ISH COATING |
| | | DT DIP GALVANIZE PER ASTM |
| | A- | -123 |
| | | DT DIP GALVANIZE PER ASTM |
| | | -153 |
| | | IGN CRITERIA |
| | STRUCTURE IN | ACCORDANCE WITH THE "SPEC- |
| | l Isu | JPPORTS OF HIGHWAY SIGNS. |
| | | IMINAIRES AND TRAFFIC SIGNALS," |
| | | SHTO 2001 W/INTERIMS THRU 2006 ACCORDANCE WITH LATEST EDITION |
| | | ACCORDANCE WITH LATEST EDITION |
| | | |
| | NOTES: | |
| | ORDERING NOM | MENCLATURE |
| | SHAFT- | -ADD LETTER "D" |
| | LENGTH | DOUBLE ARM |
| | PL-28 | 6D |
| | T T | Ť |
| | POLE-J TYPE | LUM. ARM |
| | | ARM |
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| | | MA 1'-6" PER CUST. MHM GM ISE ON LMA TO 2'-0" MHM GM |
| | | LUM ARM BB MHN |
| | | ISE ON LMA TO 1'-6" MHM GM |
| | REV DATE | DESCRIPTION BY APPR |
| | | POLE PRODUCTS |
| | <u>almeron</u> | DIVISION |
| CONTRACTOR | CITY (| OF SAN FRANCISCO |
| BOLT LENGTH. | | SERIES LIGHTING |
| | | NFORMATION WHICH IS PROPRIETARY TO AMERICAL IT SHALL NOT BE SED TO ANYONE WITHOUT THE PRIOR WRITTEN PERMISSION OF AMERICAL |
| | | E: 2/11 SCALE DWG. NO. REV |
| | | e : 2/11 n.t.s. SF1101 d |
| | | |



1C3 Round Pole - Base Plate

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

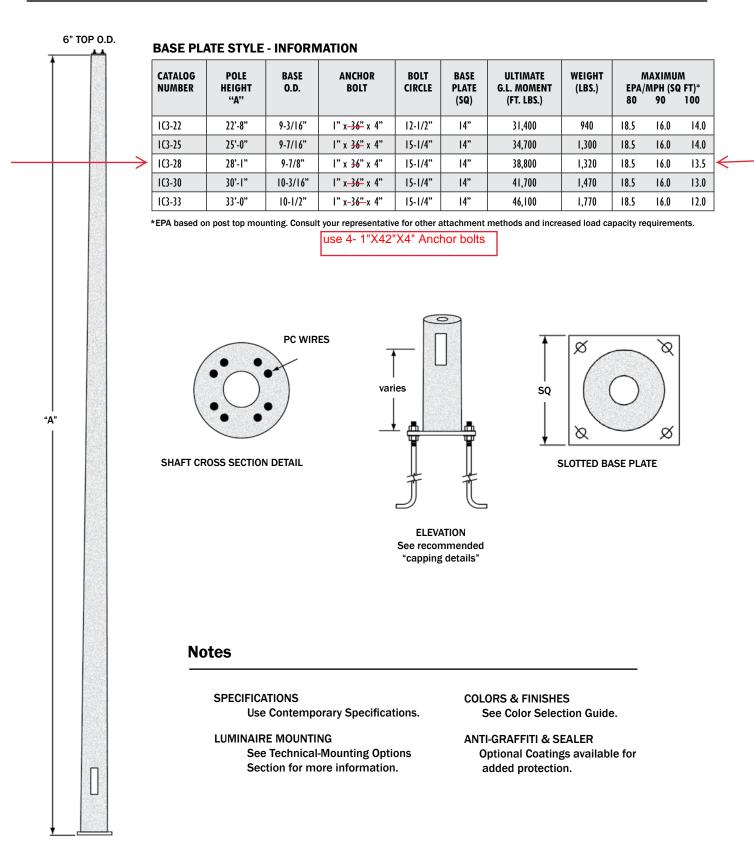
Standard, pre-formulated and custom aggregate colors are available. See separate aggregate sheet for details. Ameron offers Amershield[™], a premium graffiti-resistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the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

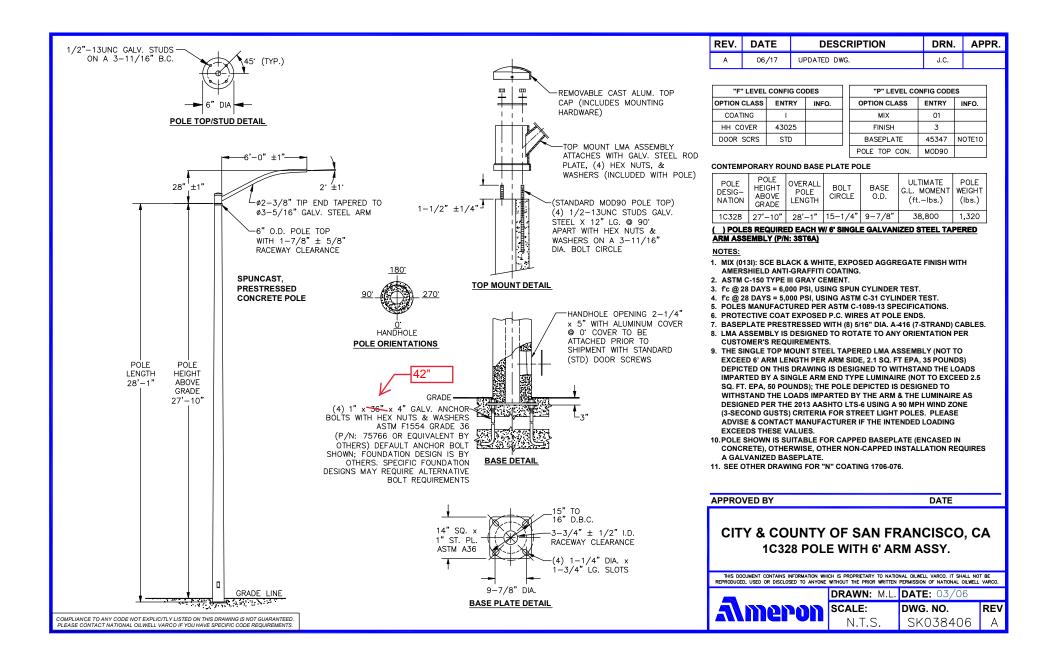


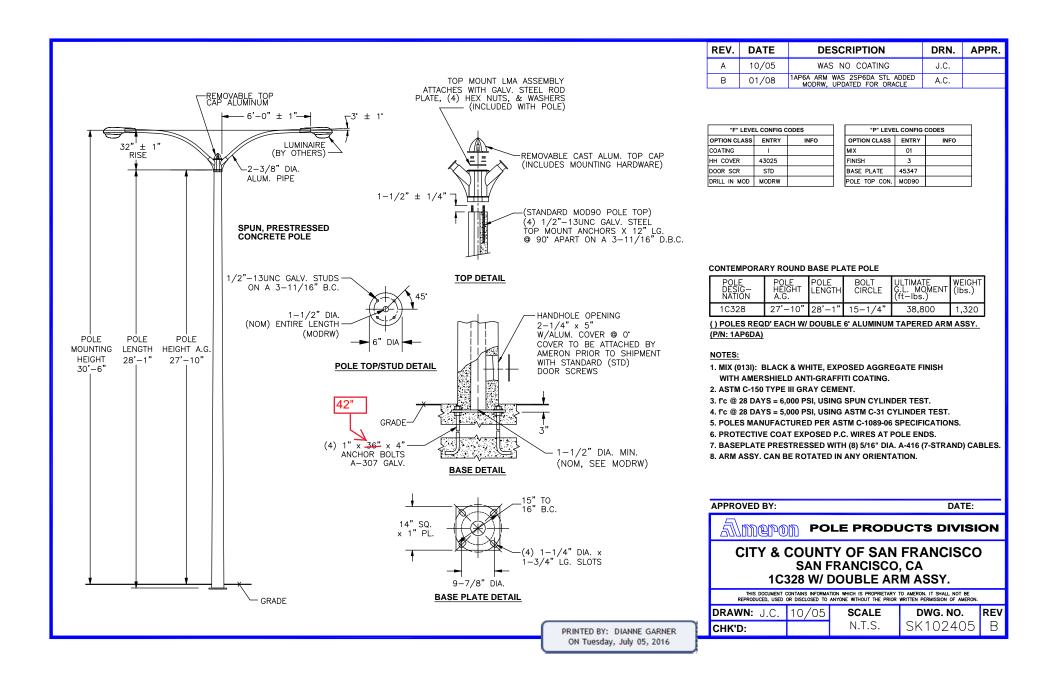


Contemporary Series 1C3 - Round Pole - Base Plate









2B2 Round Pole - Base Plate



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

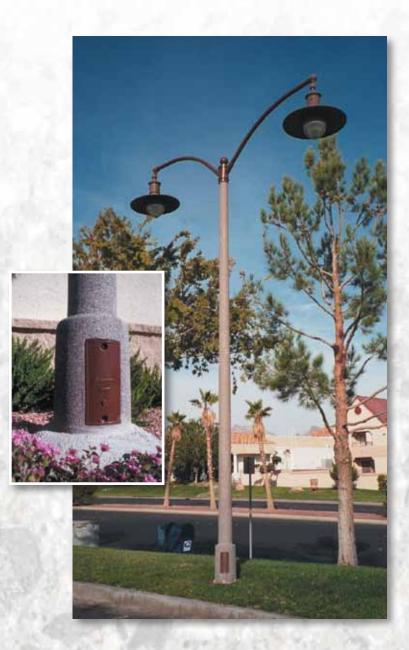
The Ameron tapered spun-cast, prestressed concrete pole is manufactured to obtain optimum strength. Each Ameron pole features accurately placed hightensile steel prestressing cables; a welded, spirally wrapped wire cage for torsional reinforcement; high-strength centrifugally cast concrete; and a surface 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 graffitiresistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the removal of graffiti.





"A"

5" TOP O.D.

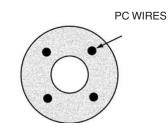


BASE PLATE STYLE - INFORMATION

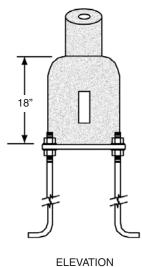
| CATALOG NUMBER | POLE HEIGHT "A" | BASE O.D. | ANCHOR BOLT | BOLT CIRCLE | BASE PLATE (SQ) | ULTIMATE G.L. MOMENT (FT. LBS.) | WEIGHT (LBS.) | | NAXIMU MPH (S 90 | |
|-------------------|-----------------------|--------------|---------------------------|----------------|-----------------------|---------------------------------------|------------------|------|------------------------|-----|
| 2B2-18 | 18'-7" | 11-3/4" | l" x 36" x 4" | 4" | 13" | 12,900 | 620 | 11.0 | 9.0 | 6.5 |
| 2B2-24 | 24'-4" | 11-3/4" | l" x 3 6" x 4" | 4" | 13" | 17,200 | 820 | 10.0 | 8.0 | 5.0 |
| 2B2-26 | 26'-7" | 11-3/4" | l" x 36" x 4" | 14" | 13" | 17,800 | 900 | 9.5 | 7.0 | 4.5 |

*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.

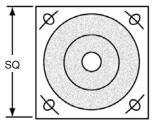
use 4- 1"X42"X4" Anchor bolts



SHAFT CROSS SECTION DETAIL



See recommended "capping detail"



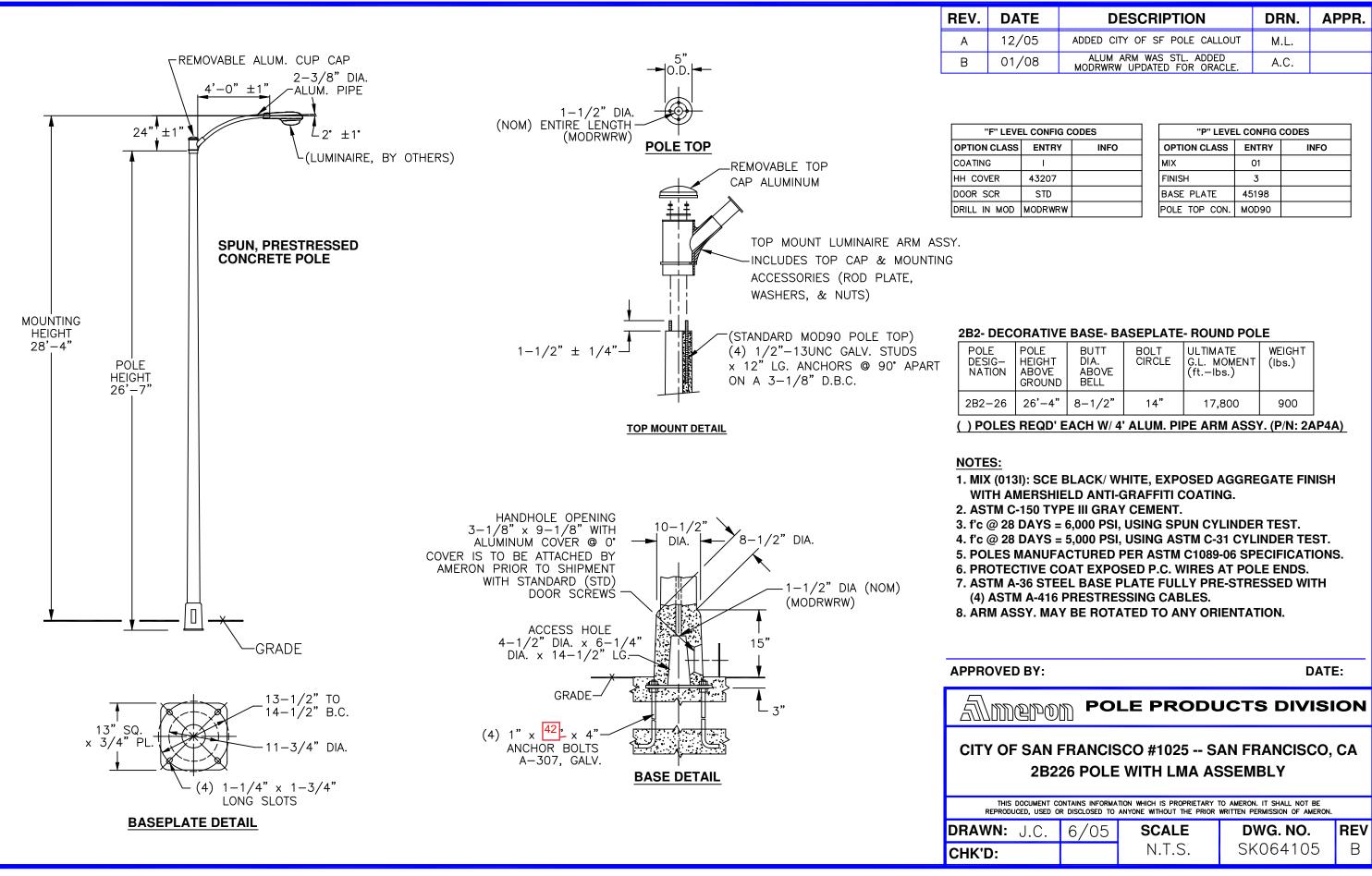
SLOTTED BASE PLATE

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.



| Ξ | DESCRIPTION | DRN. | APPR. |
|---|--|------|-------|
| 5 | ADDED CITY OF SF POLE CALLOUT | M.L. | |
| 8 | ALUM ARM WAS STL. ADDED MODRWRW UPDATED FOR ORACLE. | A.C. | |

| ONFIG CODES | | | | | |
|-------------|------|--|--|--|--|
| ENTRY | INFO | | | | |
| 1 | | | | | |
| 3207 | | | | | |
| STD | | | | | |
| DRWRW | | | | | |

| "P" LEVEL CONFIG CODES | | | | | |
|------------------------|-------|------|--|--|--|
| OPTION CLASS | ENTRY | INFO | | | |
| МІХ | 01 | | | | |
| FINISH | 3 | | | | |
| BASE PLATE | 45198 | | | | |
| POLE TOP CON. | MOD90 | | | | |

| | - | - | | |
|---------------------------|-------------------------------|----------------|---------------------------------------|------------------|
| LE IGHT OVE OUND | BUTT DIA. ABOVE BELL | BOLT CIRCLE | ULTIMATE G.L. MOMENT (ft.—Ibs.) | WEIGHT (Ibs.) |
| 6'-4" | 8-1/2" | 14" | 17,800 | 900 |

5B1 - 5B7 Octagonal Pole - Base Plate



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 hightensile 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

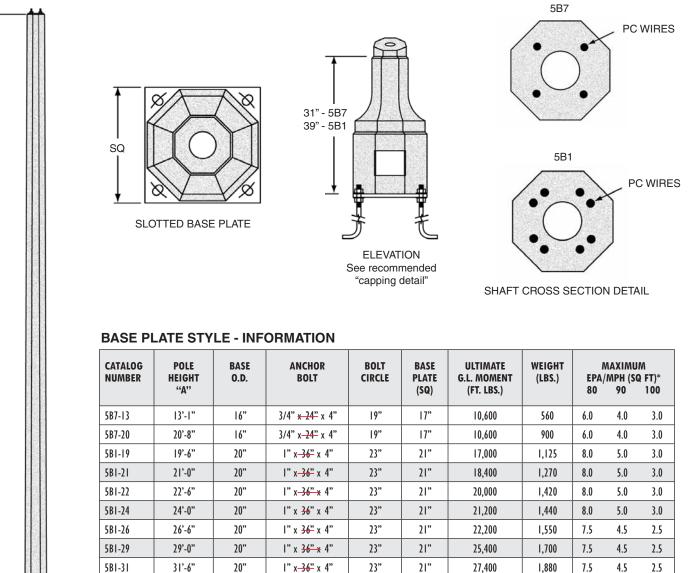
Standard, pre-formulated and custom aggregate colors are available. See separate aggregate sheet for details. Ameron offers Amershield[™], a premium graffitiresistant coating, plus an assortment of durable sealers and protectants that further enhance colors, protect the concrete surface and aid in the removal of graffiti.



Contemporary Series 5B1 - 5B7 Decorative Base Octagonal Pole - Base Plate

5" TOP O.D. - 5B7-13 4" TOP O.D. - 5B7-20 6" TOP O.D. - 5B1-19 - 31

"A"



*EPA based on post top mounting. Consult your representative for other attachment methods and increased load capacity requirements.

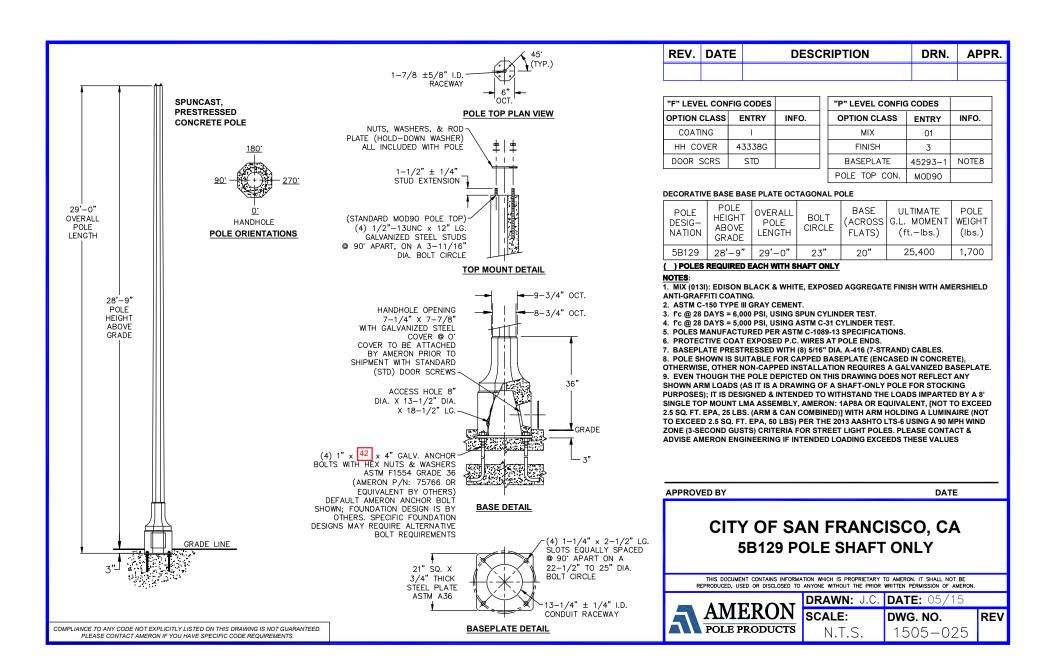
use 4- 1"X42"X4" Anchor bolts

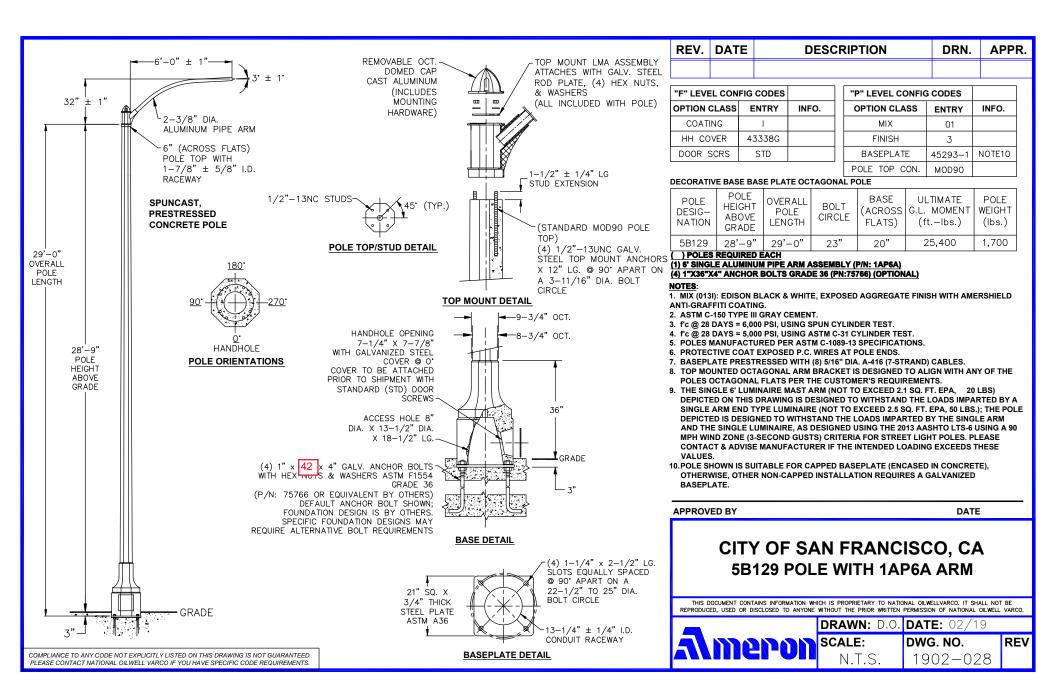
Notes

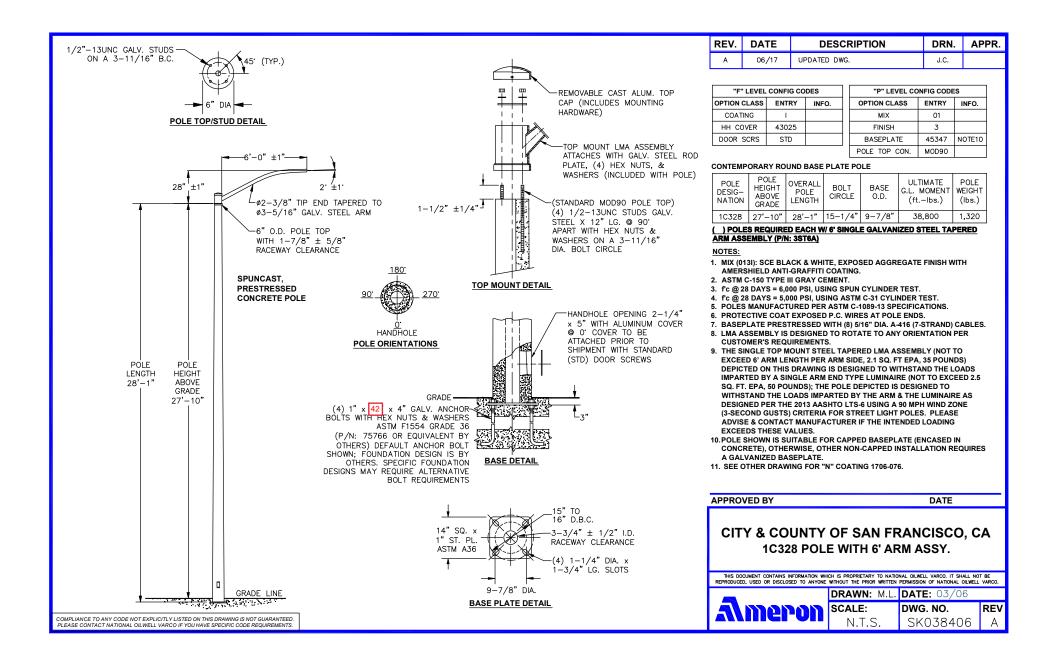
SPECIFICATIONS Use Contemporary Specifications.

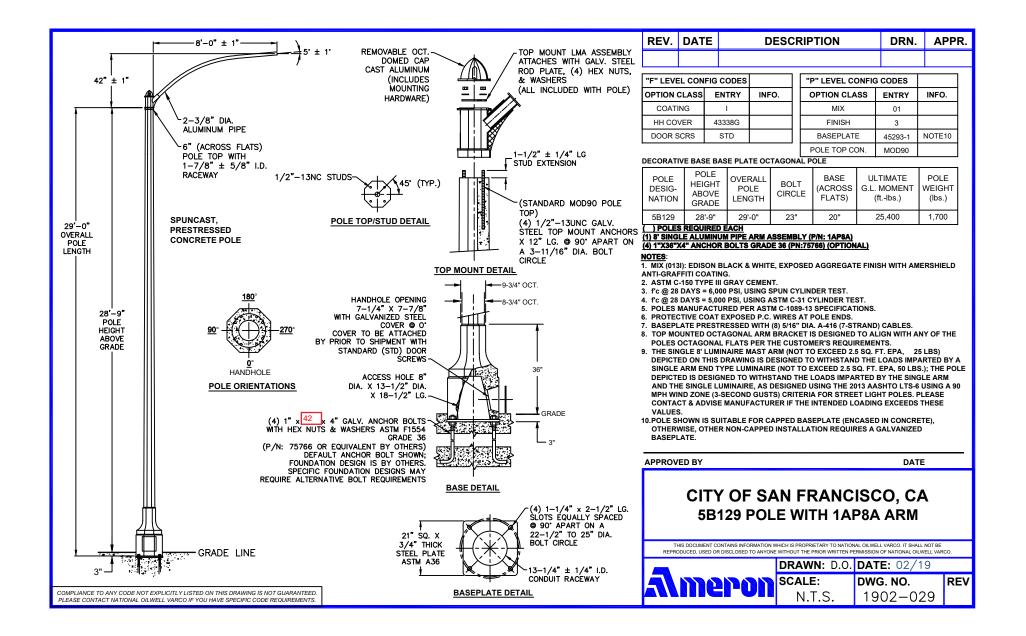
LUMINAIRE MOUNTING See Technical-Mounting Options Section for more information. COLORS & FINISHES See Color Selection Guide.

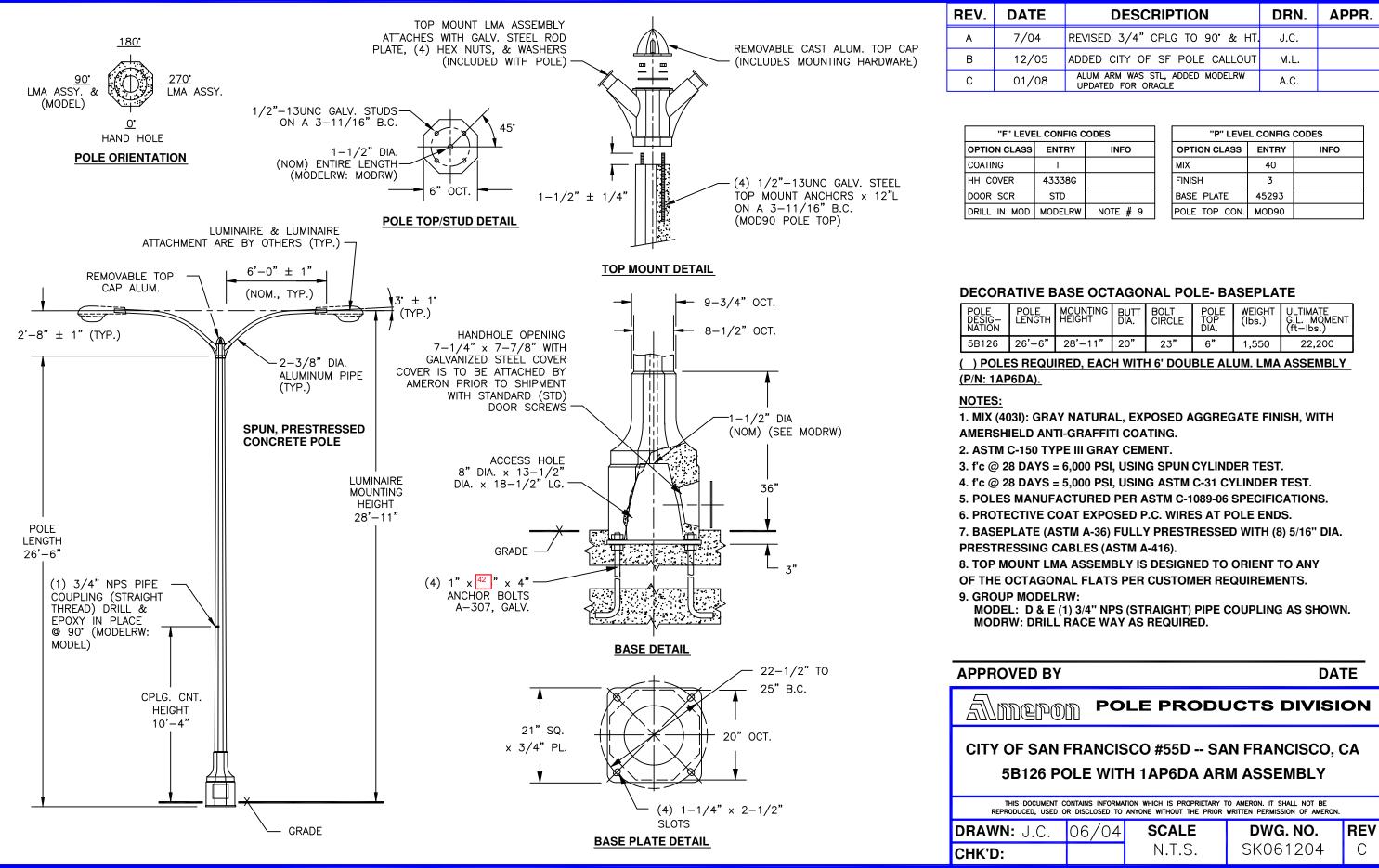
ANTI-GRAFFITI & SEALER Optional Coatings available for added protection.









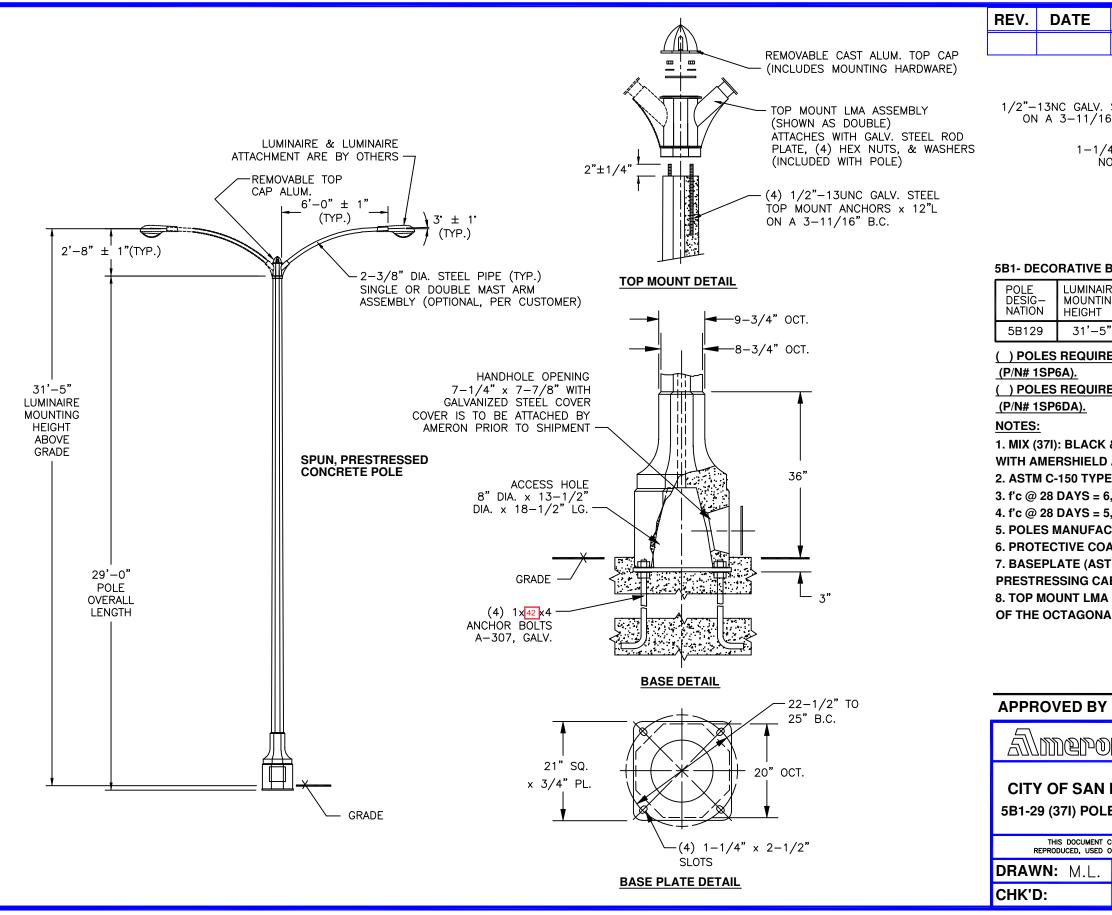


| Ξ | DESCRIPTION | DRN. | APPR. |
|---|---|------|-------|
| | REVISED 3/4" CPLG TO 90° & HT. | J.C. | |
| 5 | ADDED CITY OF SF POLE CALLOUT | M.L. | |
| 8 | ALUM ARM WAS STL, ADDED MODELRW UPDATED FOR ORACLE | A.C. | |
| | | | |

| CONFIG CODES | | | | | |
|--------------|----------|--|--|--|--|
| ENTRY INFO | | | | | |
| Ι | | | | | |
| 43338G | | | | | |
| STD | | | | | |
| MODELRW | NOTE # 9 | | | | |

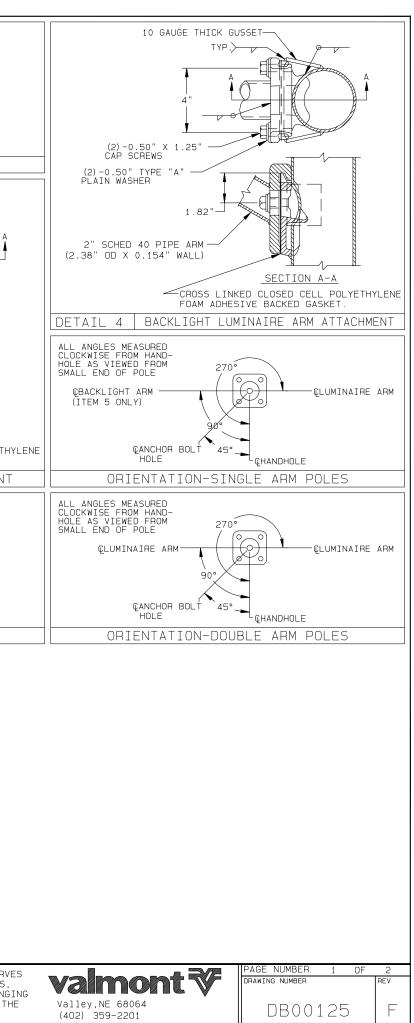
| "P" LEVEL CONFIG CODES | | | | | | |
|------------------------|-------|------|--|--|--|--|
| OPTION CLASS | ENTRY | INFO | | | | |
| MIX | 40 | | | | | |
| FINISH | 3 | | | | | |
| BASE PLATE | 45293 | | | | | |
| POLE TOP CON. | MOD90 | | | | | |

| тн Тн | MOUNTING HEIGHT | BUTT DIA. | BOLT CIRCLE | POLE TOP DIA. | WEIGHT (Ibs.) | ULTIMATE G.L. MOMENT (ft-lbs.) | | |
|----------|--------------------|--------------|----------------|---------------------|------------------|--------------------------------------|--|--|
| 6" | 28'-11" | 20" | 23" | 6" | 1,550 | 22,200 | | |
| | | | | | | | | |



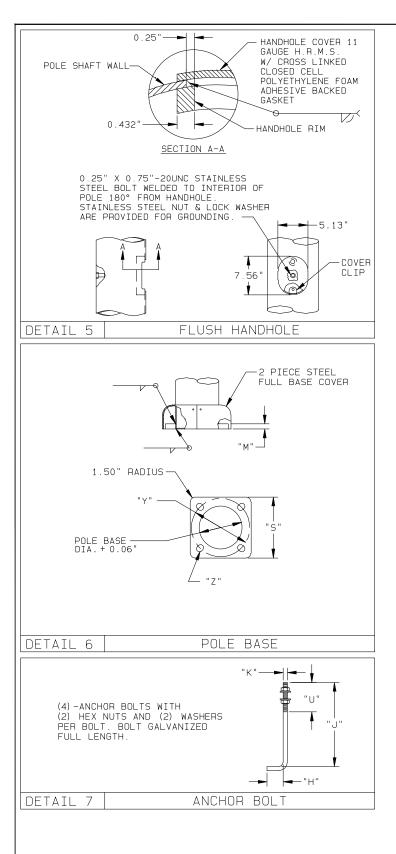
| | DE | SCRIPT | ION | | DRN. | AF | PR. | | | |
|--|--------------------------------------|---------------|--------------|----------|-------------------------|--------|-----|--|--|--|
| | | | | | | | | | | |
| A. STUDS 16" B.C. 1/4" DIA. NOMINAL 6" OCT. POLE TOP/STUD DETAIL E BASE- BASE PLATE- OCTAGONAL POLE AIRE POLE BOLT ULTIMATE WEIGHT TING LENGTH CIRCLE ULTIMATE (Ibs.) 5" 29'-0" 23" 25,400 1,700 | | | | | | | | | | |
| IRE | D, EACH W | ITH 6' SIN | GLE STEE | L PIP | E LMA AS | SEM | BLY | | | |
| IRED, EACH WITH 6' DOUBLE STEEL PIPE LMA ASSEMBLY K & WHITE LA, EXPOSED AGGREGATE FINISH D ANTI-GRAFFITI COATING. PE III GRAY CEMENT. = 6,000 PSI, USING SPUN CYLINDER TEST. = 5,000 PSI, USING ASTM C-31 CYLINDER TEST. ACTURED PER ASTM C-1089-97 SPECIFICATIONS. OAT EXPOSED P.C. WIRES AT POLE ENDS. STM A-36) FULLY PRESTRESSED WITH (8) 5/16" DIA. CABLES (ASTM A-416). MA ASSEMBLY IS DESIGNED TO ORIENT TO ANY NAL FLATS PER CUSTOMER REQUIREMENTS. | | | | | | | | | | |
| | PC | DLE | PR | \sim | | СТ | S | | | |
| D |))) | & | SYS | | EMS | | - | | | |
| DLE | FRANCIS E WITH 6' L | .MA ASS | EMBLY (| SING | LE OR D | OUB | | | | |
| | ONTAINS INFORMAT R DISCLOSED TO / | NYONE WITHOUT | THE PRIOR WR | ITTEN PE | RMISSION OF A | MERON. | | | | |
| • | 12/05 | SCA N.T. | | | VG. NO. 12180 | | REV | | | |
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| | DETAIL 1 | | DETAIL 3 | | | | | DETAIL | 1 | | | DETAIL | . Э | | | | |
| | | | | 4 | | | | | | | | 4 | • | | PLACE WIT | TOP CAP HELD IN H 3 STAINLESS | |
| | <u>†</u> | | | Ş | | | - | <u> </u> | | | | H | Ş | | STEEL SET | SCREWS. | |
| ll Î | Ă | | <u>I</u> | LUMIN. MOUNT | ING | | Ť | Ĭ | | | $\overline{}$ | | LUMINAIRE MOUNTING | | | | |
| | I | | \ | HEIG "T | HT. | | | I | | | | | HEIGHT "T" | | | | |
| | | DETAIL 2 | SEE LUMINAIRE | | | | | | | - DETAII | | SEE INATRE | | | | | |
| | | | ARM DATA | | | | | | | | ARM | INAIRE DATA | | DETA | TI 1 | POI | E TOP |
| | | | | | | | | | | | | | | | | | |
| | | SINGLE ARM POLE | | | | | | | | OUBLE | ARM POLE | | | | 10 | 0 GAUGE THICK GUSSET | |
| | | | - | | | | | | | OODLL | | | | | (2)-0.50 | TYP.≻ × 1.25" − | |
| | | | | | | | | | | | | | | | CAP SCRE | WS T | |
| | "∟"→ | DETAIL 4 | | | | | | | | | | | | | | I Î (T | |
| SEE PI | | (ITEM 5 ONLY) | | | | | SEE P | | | | | | | | | 4.00" | |
| DAT | A | | | | | | DAT/ | 4 | | | | | | | | | |
| | Ī | | | | | | | | | | | | | | | | A Star |
| | | | | | | | | | | | | | | | -0.50" TYPE IN WASHER | _ A | |
| | | | | | | | | | | | | | | | THE | | |
| | | | | | | | | | | | | | | | | | |
| | 14'-0" | | | | | | | | | | | | | * | | 1.82" | |
| | | DETAIL 5 | | | | | | | | | DETAIL 5 | | | | | 4'-0" ARM- 3.25" | |
| | | | | | | | | | | | | | | | | 6'-0" ARM- 3.75" 8'-0" ARM- 4.00" | |
| | | DETAIL 6 | | | | | | | J OF | | DETAIL 6 | | | | 2.75" 🖛 | | |
| | 1 | DETAIL 7 | | | | | Ţ | | 1'-6" | [| DETAIL 7 | | | SEC | CTION B-B | | SECTION A-A |
| | | DETAIL / | | | | | | | | | JETAIL / | | | | | FOAM ADHESIVE | LOSED CELL POLYETHY BACKED GASKET. |
| | | ĻJ | | | | | | | LJ | | | | | DETA | IL 2 | LUMINAIRE A | RM ATTACHMENT |
| | МАТЕГ | RIAL DATA | | INISH | דעם ב | - ^ | | | LLIM | | re arm da | ТΛ | | | ł | | |
| | MAILE | | | TNTO | I DAI | A | | | | TUATI | | | - DIGE | 8. RE | .00" NOMINA EFORMED TO | L STRAIGHT SECTION 2.38" O.D. | |
| Col | MPONENT | ASTM MIN. YIELD | | | | | | QTY | | IXED E DIA. | ND FREE END DIA. | GAUGI OR | HEIGHT | | | | |
| | | DESIGNATION (KSI) | SYSTEM: BASE COAT: | | ANIZED | | | GIT | . (FT) | (IN) | (IN) | THIC (IN) | | | | | |
| POLE SH BASE PL | | A595 GR.A 55 A36 36 | | ASTM | A123 | _VANIZEL | , 10 | | 1.83 | 2.38 | 2.38 | 0.15 | | | | | 3° |
| SIMPLEX | | A27 GR65-35 OR A36 36 | PRIME COAT FINISH COA | | | | | | 4.00 | 3.08 | 2.40 | 11 | 2.00 | | | 8.0 | DO" 🖛 🗂 RISE |
| PIPE AF | | A501,A513,A618 36 | COLOR: SPEC: | NONE F-1 | | | | | 6.00 | З.ЗО | 2.40 | 11 | 2.00 | | | | |
| ANCHOR | | A500 GR.B F1554 GR.55 55 | | | | | | | 8.00 | 3.57 | 2.40 | 11 | 2.00 | | TL O | | |
| HARDWAF | RE COATING | HOT DIP ZINC | | | | | | | | | | | | | IL 3 | REFURME | D ARM END |
| | | | | | | POLE | DATA | | | | | | | | | | |
| | | | LUMINAIRE | | POLE | E TUBE | | | POLE B | ASE | | | ANCHOR BOLT | | | | |
| | | | MOUNTING | DAGE | TOD | | GAUGE | COUL4 DE | BOLT CIRCLE | T1.07 | | D.T.4 | | THREAD | | | |
| QTY. | ITEM | DESCRIPTION | HEIGHT "T" | BASE DIA. | TOP DIA. | LENGTH (FT) | OR THICK | SQUARE "S" | RANGE | ТНК. "М" | HOLE/SLOT "Z" | DIA. "K" | LENGTH HOOK | LENGTH "U" | | | |
| | | | (FT) | (IN) | (IN) | | (IN) | (IN) | (IN) | (IN) | (IN) | (IN) | (IN) (IN) | (IN) | | | |
| | SIN | GLE ARM POLES | | | | | | | | | | | | | | | |
| | 1 | DS36-738A160-0S | 17.50 | 7.38 | 5.14 | 16.00 | 11 | 10.50 | 10.00 - 11.00 | 1.000 | 1.25 X 1.75 | 1.00 | 42.00 6.00 | 6.00 | | | |
| | 2 | DS36-738A220-0S | 23.50 | 7.38 | 4.30 | 22.00 | 11 | 10.50 | 10.00 - 11.00 | 1.000 | 1.25 X 1.75 | 1.00 | 42.00 6.00 | 6.00 | | | |
| | 3 | DS36-738A250-0S | 26.50 | 7.38 | 3.88 | 25.00 | 11 | 10.50 | 10.00 - 11.00 | 1.000 | 1.25 X 1.75 | 1.00 | 42.00 6.00 | 6.00 | | | |
| | 4 | DS36-730A286-0S | 30.00 | 7.30 | 3.31 | 28.50 | 11 | 10.50 | 10.00 - 11.00 | 1.000 | 1.25 X 1.75 | 1.00 | 42.00 6.00 | 6.00 | | | |
| | |)S36-730A286-0S-BACKLIGHT | 30.00 | 7.30 | 3.31 | 28.50 | 11 | | 10.00 - 11.00 | | | | | 6.00 | | | |
| | 6 | DS36-730A336-0S | 35.00 | 7.30 | 2.61 | 33.50 | 11 | 10.50 | 10.00 - 11.00 | 1.000 | 1.25 X 1.75 | 1.00 | 42.00 6.00 | 6.00 | | | |
| | 1 | JBLE ARM POLES | 00 50 | 7 ^^ | 2 | 00.00 | 4.4 | 10 50 | 10.00 11.00 | 1 000 | 1 05 4 75 | 1 00 | | 6 00 | | | |
| | 7 8 | DS36-700A220-0D DS36-700A250-0D | 23.50 | 7.00 | 3.92 3.50 | 22.00 25.00 | 11 | | 10.00 - 11.00 10.00 - 11.00 | | | | | 6.00 6.00 | | | |
| | 9 | DS36-730A286-0D | 30.00 | 7.30 | 3.30 | 28.50 | 11 | | 10.00 - 11.00 10.00 - 11.00 | | | | | 6.00 | | | |
| | 10 | DS36-762A336-0D | 35.00 | 7.62 | 2.93 | | 11 | | 10.00 - 11.00 | | | | | | | | |
| | | | | L | | 1 | | | 1 | | | | | | | | |
| | | BDS 11/06/19 ABS WERE 1"X | | 0 07 - | IF 611 | | TITLE C | ITY R. | COUNTY OF | SAN | FRANCISCO |) | | | | | TRIES, INC. RESERVE |
| | | BDS 03/12/19 BPLS RESIZED <jw5 11="" 12="" 18="" added="" backlig<="" td=""><td></td><td>U BE TI</td><td>TE SAME</td><td>-</td><td></td><td></td><td>LES SINGLE</td><td></td><td></td><td></td><td>AIRE</td><td></td><td></td><td>ENGINEER APPRO</td><td>O INSTALL VARIOUS, VED, MATERIAL HANGI</td></jw5> | | U BE TI | TE SAME | - | | | LES SINGLE | | | | AIRE | | | ENGINEER APPRO | O INSTALL VARIOUS, VED, MATERIAL HANGI |
| — JKC | 08/30/85 | GJM 08/30/85 — — — - | | | | - — – | | | NG STRUCTUR | | | | | | | ACCOMMODATIO | NS TO FACILITATE THE TURING PROCESS. |
| REV DRAW | IN BY-DATE | CHECK BY-DATE | DESCRIPTION | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

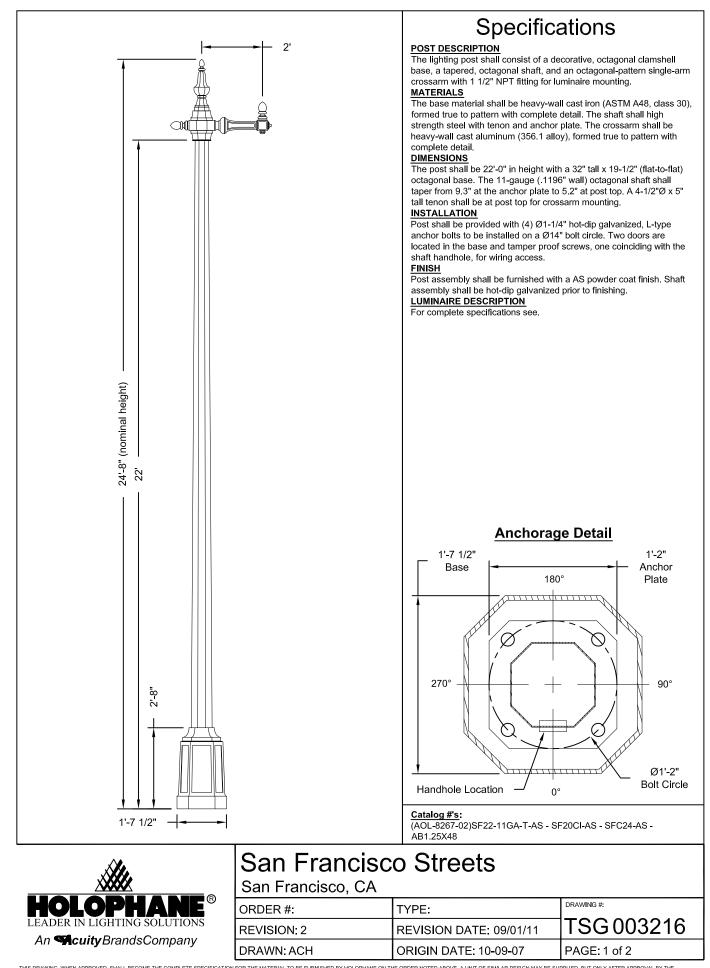


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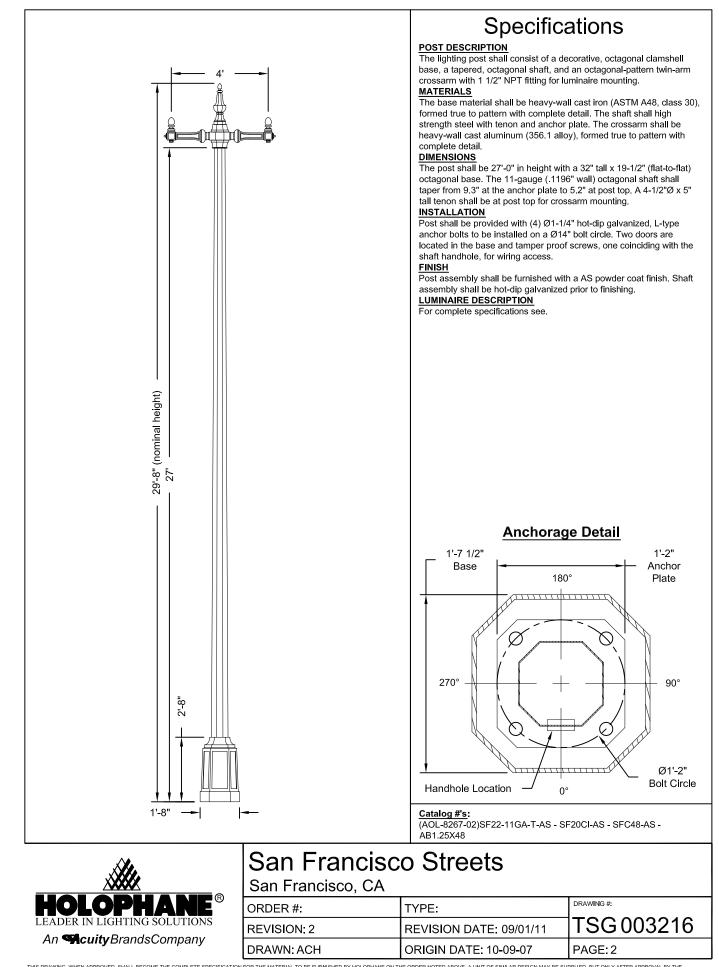
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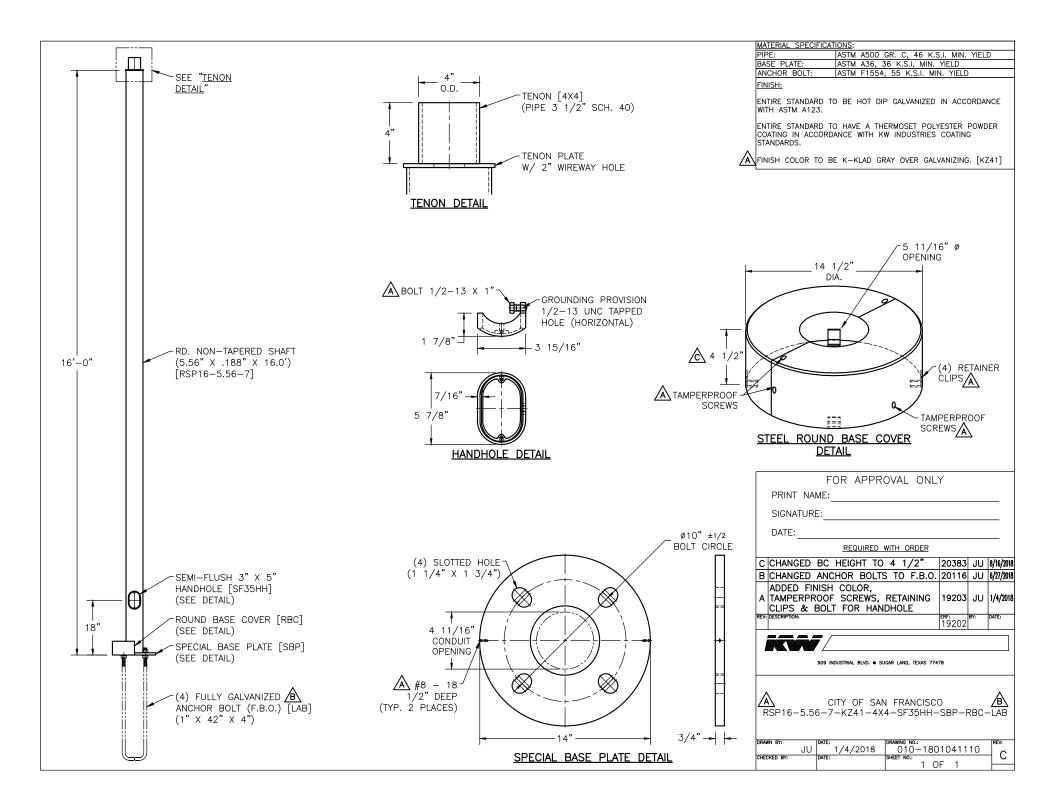
| TITLE CITY & COUNTY OF SAN FRANCISCO DS36 POLES SINGLE OR DOUBLE LUMINAIRE LIGHTING STRUCTURES | VALMONT INDUSTRIES, INC. RESERVE THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGI ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS. |
|--|--|
|--|--|

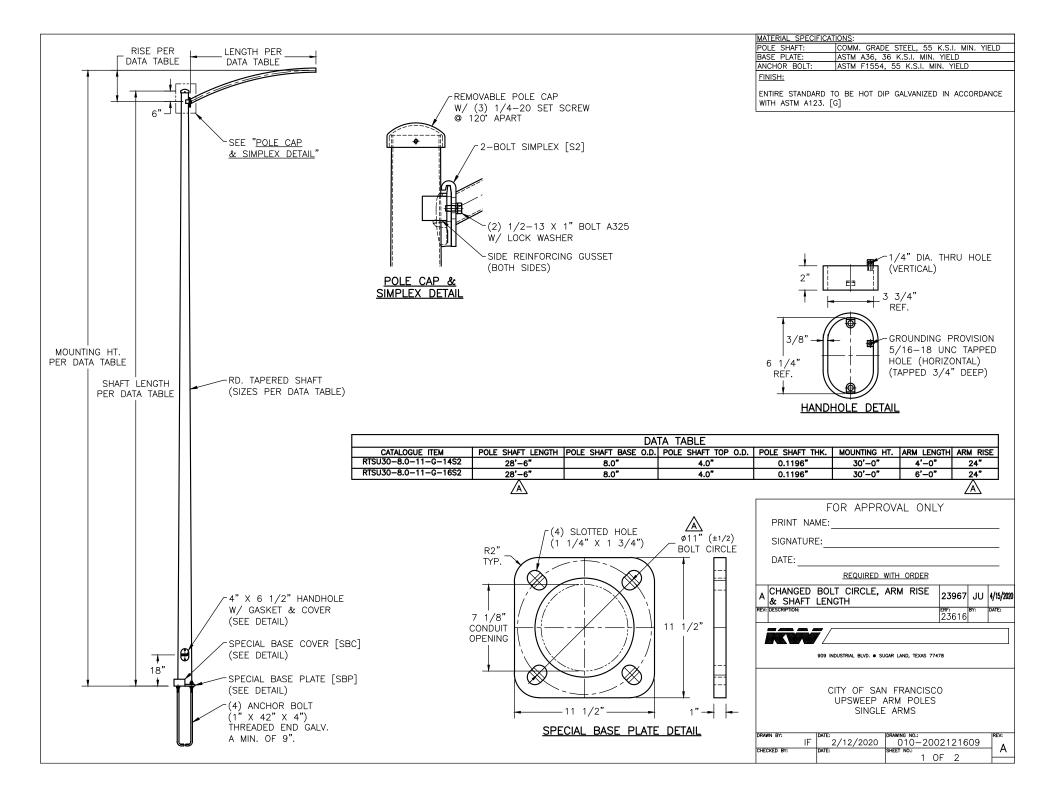


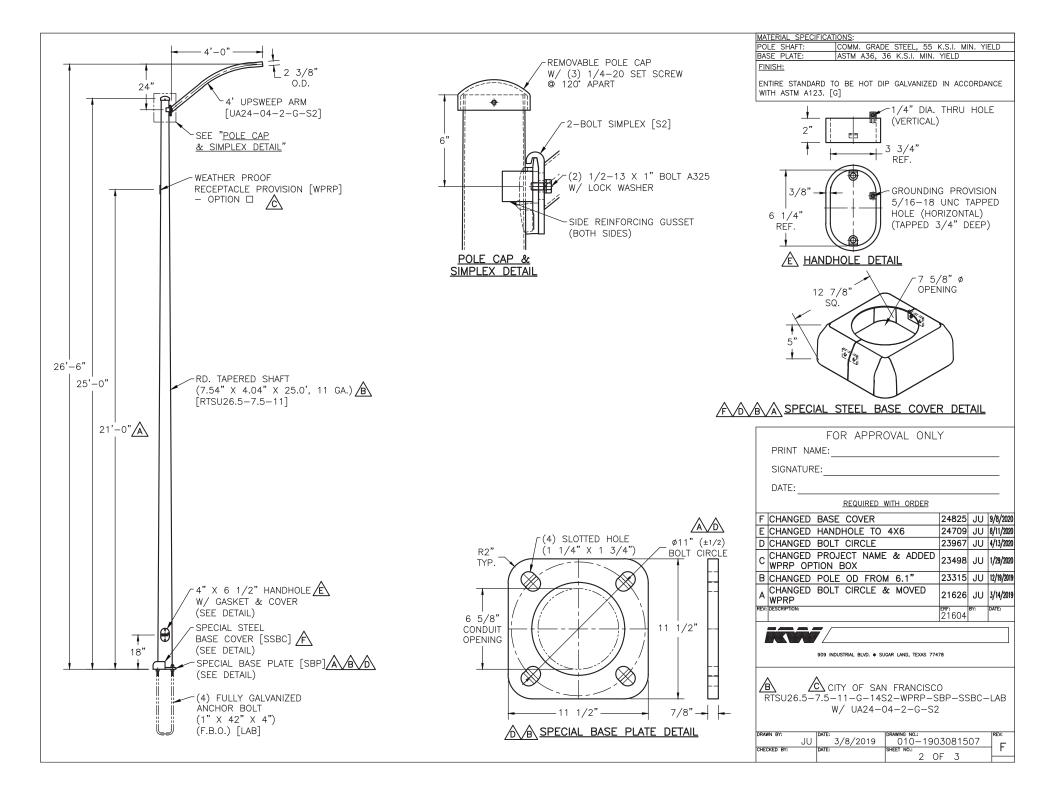
THIS DRAWING, WHEN APPROVED. SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON FOLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT TORER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BUSED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO ORIGINERTATION ONLY IN CONSECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



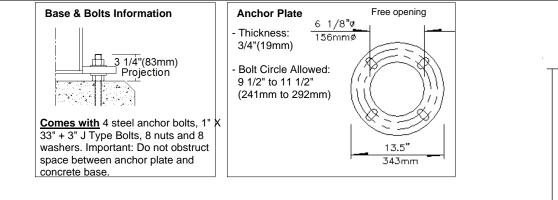
THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING, ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANACHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND LOYD EXPRESS CONDITION THAT IT WILL NOT BUSED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.



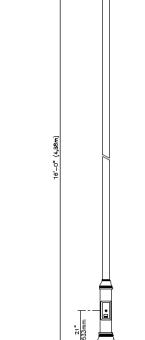




City of San Francisco - Lumec SMN 16' pole (fits 1 x 42 x 4 bolts, 10.5 -11.5 BC, inside paint)







16"#

Pole [SM6N-007]-16-BLN1-IP-BKTX

Qty

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.

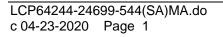
Base Cover: Two piece round base cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

Pole Options: (**BLN1**) Anchor plate accepting 1" (25mm) O.D. bolts. (IP) The pole inner wall will be painted.

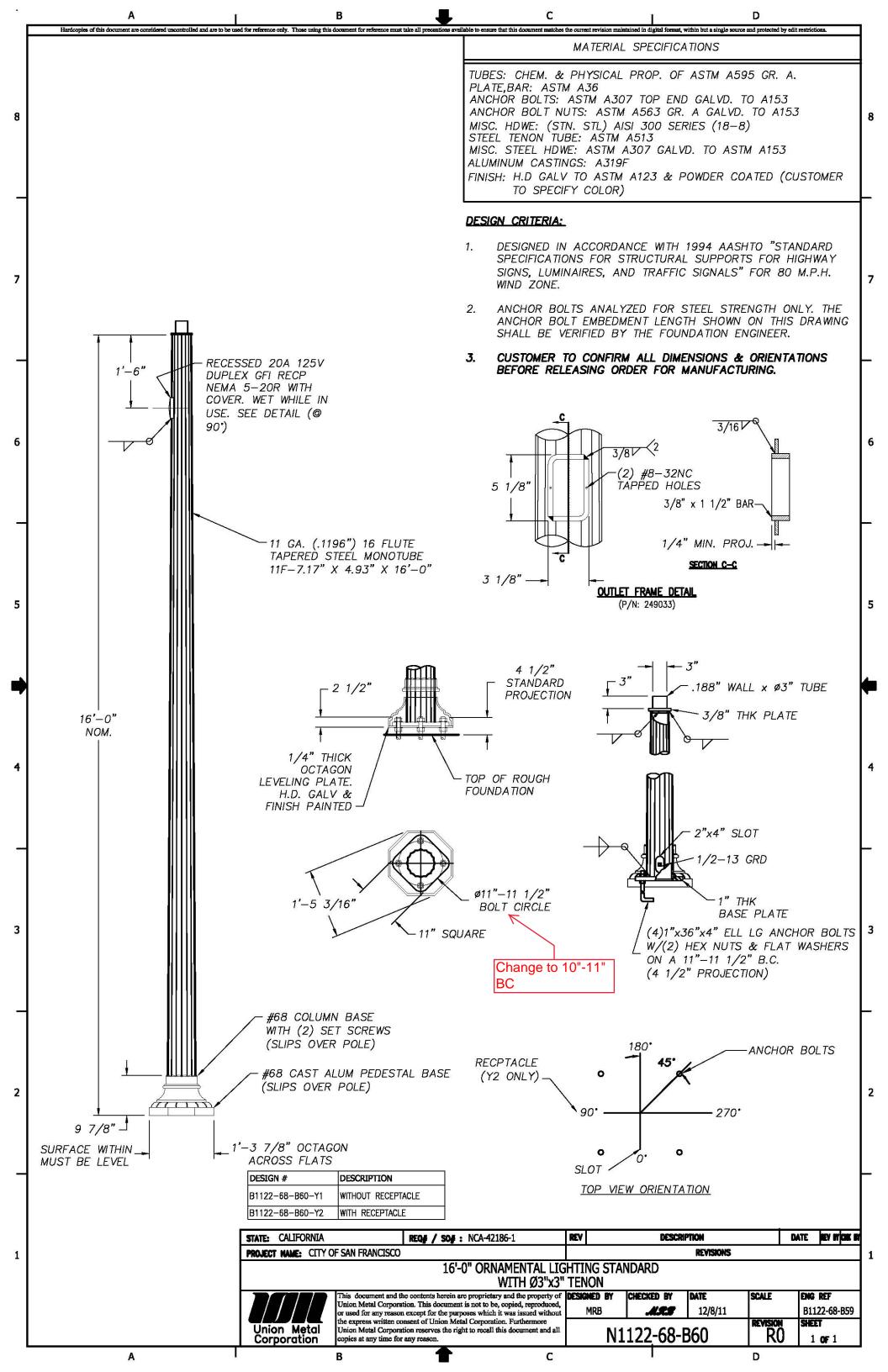
Note: A tenon will be provided when the luminaire or bracket does not fit directly on pole shaft. Tenon not shown on the drawing.

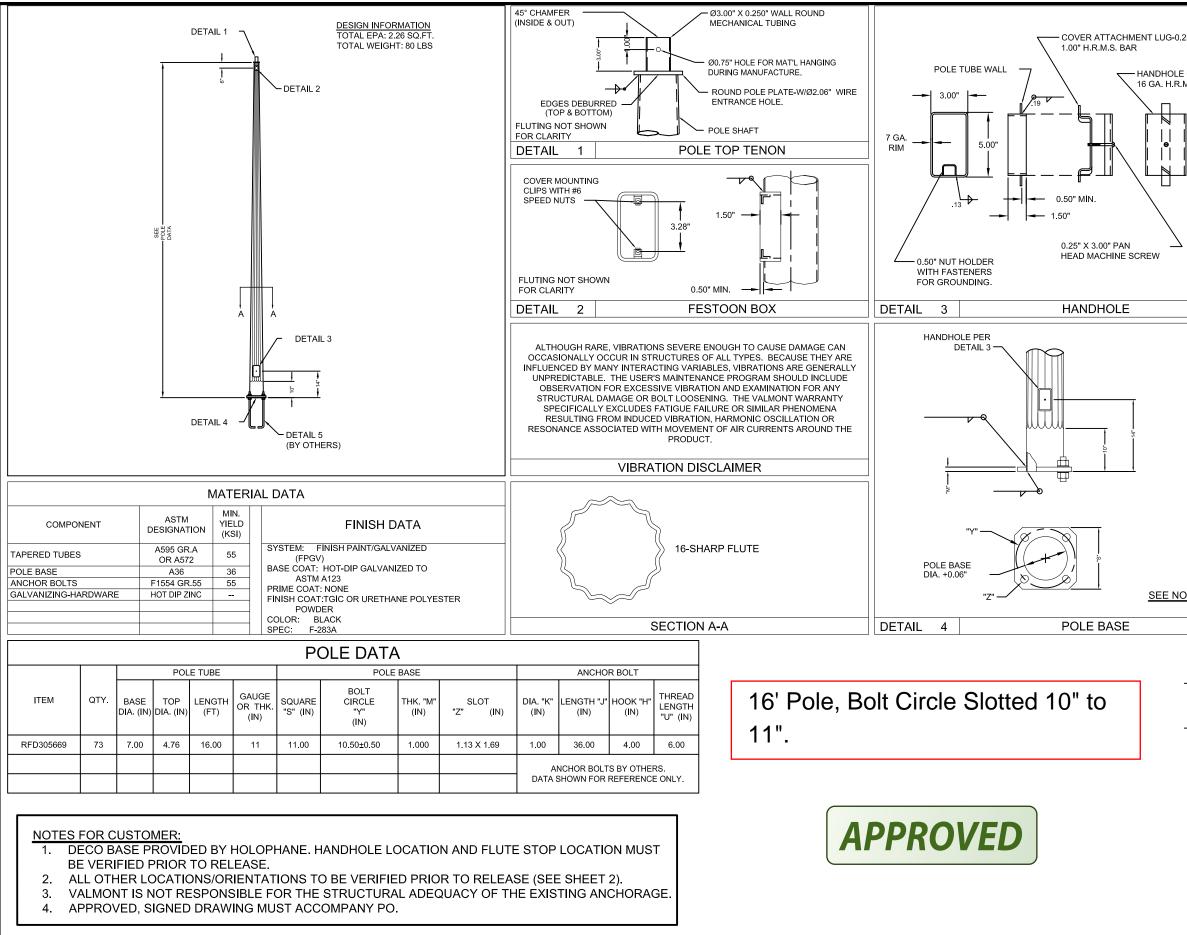
IMPORTANT: Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.

Pole Weight: 130 lbs (59.1 kg)









| REV | DRAWN BY-DATE | CHECK BY-DATE | DESCRIPTION | | | | |
|-----|---------------|---------------|-------------|----------|--------------------------------------|------|----------------------|
| _ | TS8 06/11/19 | AT7 06/11/19 | | AGENT: | PHIL HEINZ | ווון | ELIGHTING STRUCTURES |
| | | | | P.O. #: | 2165-19-11171-4 (DR19011, RFD305669) | | SAN FRANCISCO, CA |
| | | | | SHIP TO: | SAN FRANCISCO, CA | | |
| | | | | SOLD TO: | UPPER HAIGHT STREET | JOB | UPPER HAIGHT STREET |

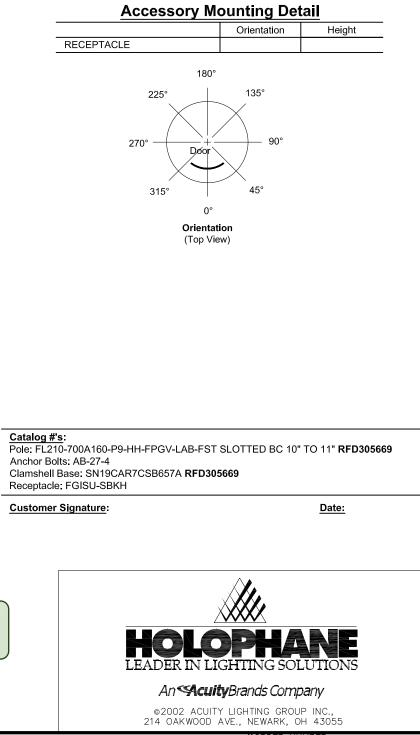
| 25" X COVER M.S. | (4)-ANCHOR BOLTS WITH (2) HEX NUTS AND (2) WASHERS PER BOLT WITH THREADED END GALVANIZED AT LEAST 12.00". |
|-------------------------------------|---|
| | ANCHOR BOLTS SUPPLIED BY OTHERS. DATA SHOWN FOR REFERENCE ONLY. DETAIL 5 ANCHOR BOLT |
| J | THE LIGHTING STRUCTURES SHOWN ON THIS DRAWING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LOADING AND THE ALLOWABLE STRESS REQUIREMENTS OF THE 2013 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", SIXTH EDITION, LTS-6. THE WIND LOADS WERE CALCULATED FROM A BASIC WIND VELOCITY OF 100 MPH WITH A RECURRENCE INTERVAL OF 50 YEARS. |
| | PER THE CODE COMMON LIGHTING STRUCTURES ARE NOT REQUIRED TO BE ANALYZED FOR FATIGUE LOADS AS THEY HAVE NOT NORMALLY EXHIBITED FATIGUE PROBLEMS. |
| | AASHTO 2013 SPECIFICATIONS |
| | ALL ANGLES MEASURED CLOCKWISE FROM HAND- HOLE AS VIEWED FROM SMALL END OF POLE |
| | JANCHOR BOLT |
| | RADIAL INDEX |
| <u>DTE 1</u> | |
| Catalog # Pole: FL2 (See Shee | |
| <u>Custome</u> | r Signature: Date: |
| | |
| | |
| | HOLOPHANE LEADER IN LIGHTING SOLUTIONS |
| | An CuityBrands Company |
| | 214 OAKWOOD AVE., NEWARK, OH 43055 |
| | PAGE NUMBER: 1 OF 2 DRAWING NUMBER REV |

| TSG01 | 1528 |
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|-------|------|

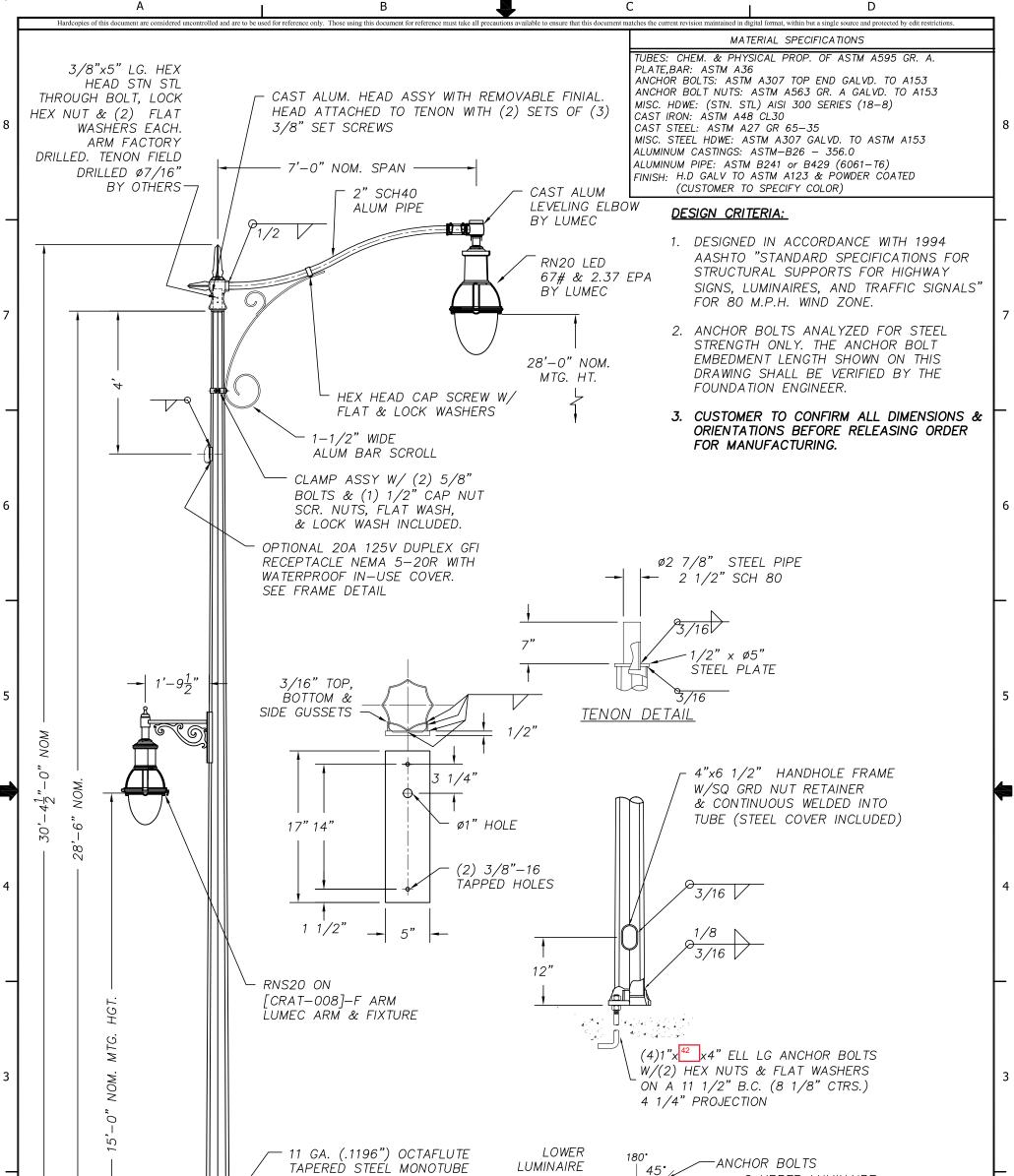
| -

| NOTES FOR CUSTOMER: 1. DECO BASE PROVIDED BY HOLOPHANE. HANDHOLE LOCATION AN BE VERIFIED PRIOR TO RELEASE. 2. ALL OTHER LOCATIONS/ORIENTATIONS TO BE VERIFIED PRIOR TO 3. VALMONT IS NOT RESPONSIBLE FOR THE STRUCTURAL ADEQUAC 4. APPROVED, SIGNED DRAWING MUST ACCOMPANY PO. | RELEASE (SEE SHEET 2). | 16'-5" (Nominal Height) | | |
|---|--|-------------------------|---------------|----------|
| ALL OTHER LOCATIONS/ORIENTATIONS TO BE VERIFIED PRIOR TO VALMONT IS NOT RESPONSIBLE FOR THE STRUCTURAL ADEQUAC | RELEASE (SEE SHEET 2). Y OF THE EXISTING ANCHORAGE. | | | AFFNOVED |
| | | | →Ø19" →→ | |
| | OLD TO: UPPER HAIGHT STREET | | HT STREET | |

| | | | | SOLD TO: UPPER HAIGHT STREET | | |
|-----|---------------|---------------|-------------|--|-------------------|--|
| | | | | SHIP TO: SAN FRANCISCO, CA | | |
| | | | | P.O. #: 2165-19-11171-4 (DR19011, RFD305669) | SAN FRANCISCO, CA | |
| | TS8 06/11/19 | AT7 06/11/19 | | AGENT: PHIL HEINZ | | |
| RE\ | DRAWN BY-DATE | CHECK BY-DATE | DESCRIPTION | | | |
| | | | | | | |



| ORDER | | | | | | | |
|-----------|--|--|--|--|--|--|--|
| PAGE 1 | | | | | | | |
| DRAWING | | | | | | | |
| TSG011528 | | | | | | | |



| 2 | | 11D-8.50" > CAST STEEL W/ CAST IR LEAF COVER | RON | -6" & - 90 HANDHOLE & DUPLEX | | | 270· | ₩ C UPPL | ER LUMINAI | RE | | | - | 2 |
|---|---|--|--------------------------------|--|---|----|----------------|------------------------------|-----------------------|----------------|--------|-----------------------|------|---|
| _ | FOUNDATION SURFACE WITHIN MUST BE LEVEL | <u>1</u> ," SQ. | B70028–B91–Y1 B70028–B91–Y2 | DESCRIPTION WITHOUT RECEPTACLE WITH RECEPTACLE | | | | | | | | | - | _ |
| | | | | | [| R1 | 3 1/4" ARM PLA | te dim. Was ' | to top of plate | | 6/9/17 | MB | MB | |
| | | STATE: CALIFORNIA | | req# / so# : | R | EV | | DESCRI | PTION | | DATE | REV BY | ж BY | |
| 1 | | PROJECT NAME: DOLO | | MPROVEMENT PROJECT, SAN FR | | | | | REVISIONS | | | | | 1 |
| | | ORNAMENTAL LIGHTING STANDARD WITH 6'-0" ARM & PEDESTRIAN ARM OPTIONAL GFCI DUPLEX RECEPTACLE | | | | | | | | | | | | |
| | | This document and the contents herein are proprietary and the propert Union Metal Corporation. This document is not to be, copied, reproduc | | | | | IED BY CHE | CKED BY | DATE | SCALE | ENG | | 72 | |
| | | Union Metal Corporation Or used for any reason except for the purposes which it was issued with the express written consent of Union Metal Corporation. Furthermore Union Metal Corporation reserves the right to recall this document and copies at any time for any reason. | | | | | | <u>мяя</u> 0 <u>28-</u> В | <u>11/14/16</u> 91 | revision R1 | SHEE | 0028-B .T .OF 1 | /3 | |
| • | A | | В | | С | | | | | D | | | | |