

LIGHTING, LUMINAIRE & PHOTOMETRIC NOTES:

PRODUCT & SCHEDULE NOTES

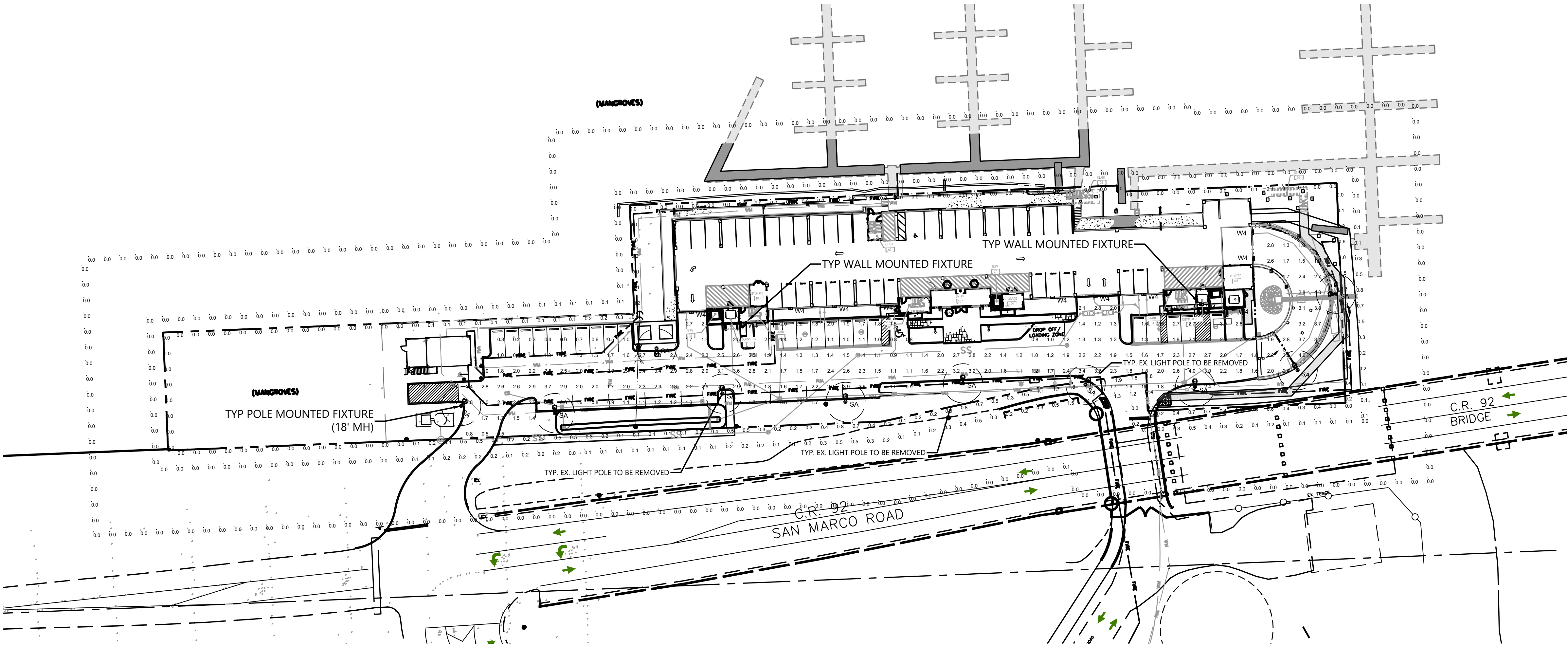
- 1 These Site Lighting Photometric Plans **DO NOT** convey any electrical connectivity information. All Electrical design and connection are to be provided by a professional electrical engineer or equally qualified specialist.
- 2 SEE Luminaire & Pole Cut Sheets for full product descriptions.
- 3 See Calculations and Schedules for photometric data and code related requirements.

LUMINAIRE NOTES

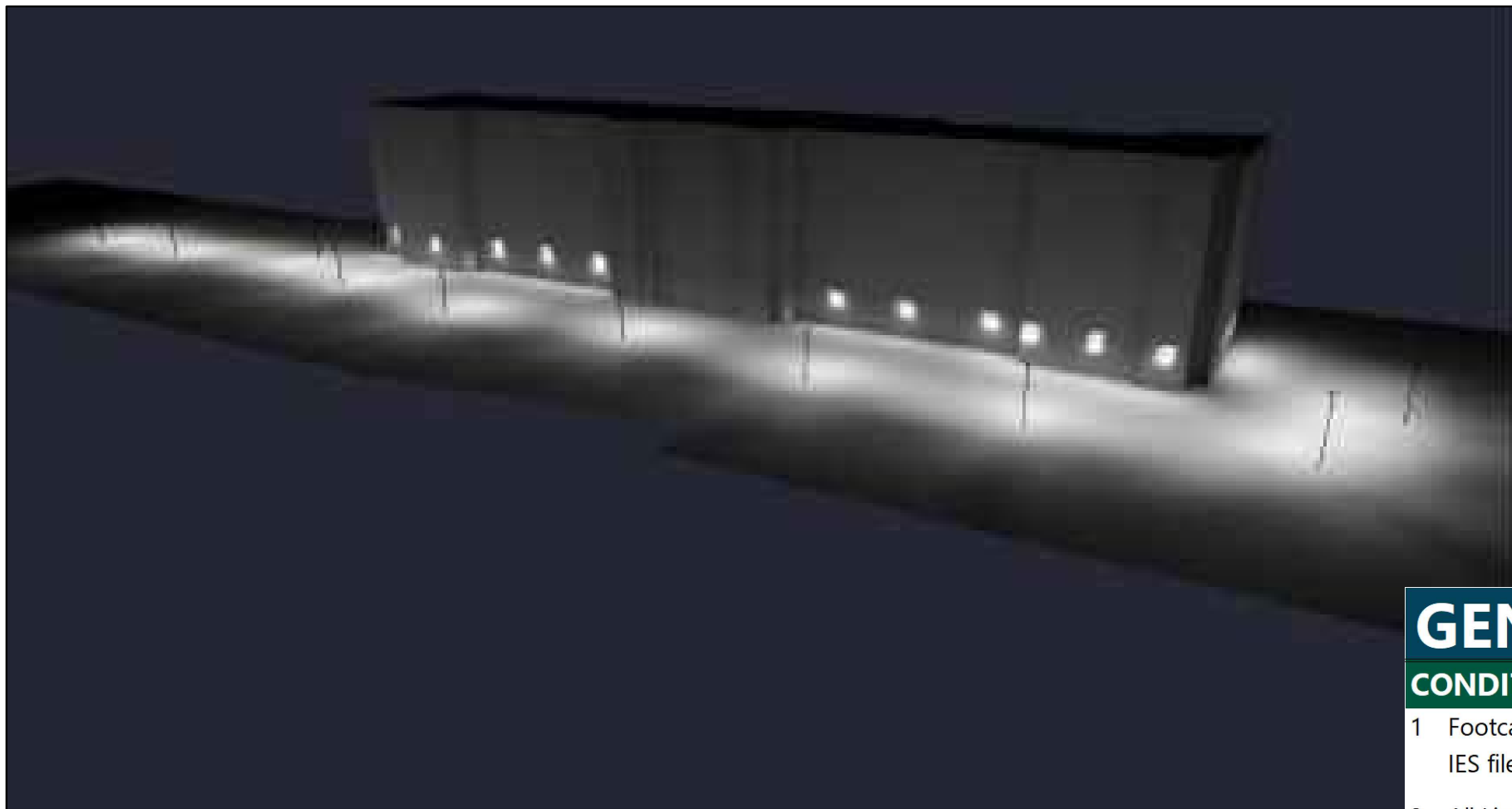
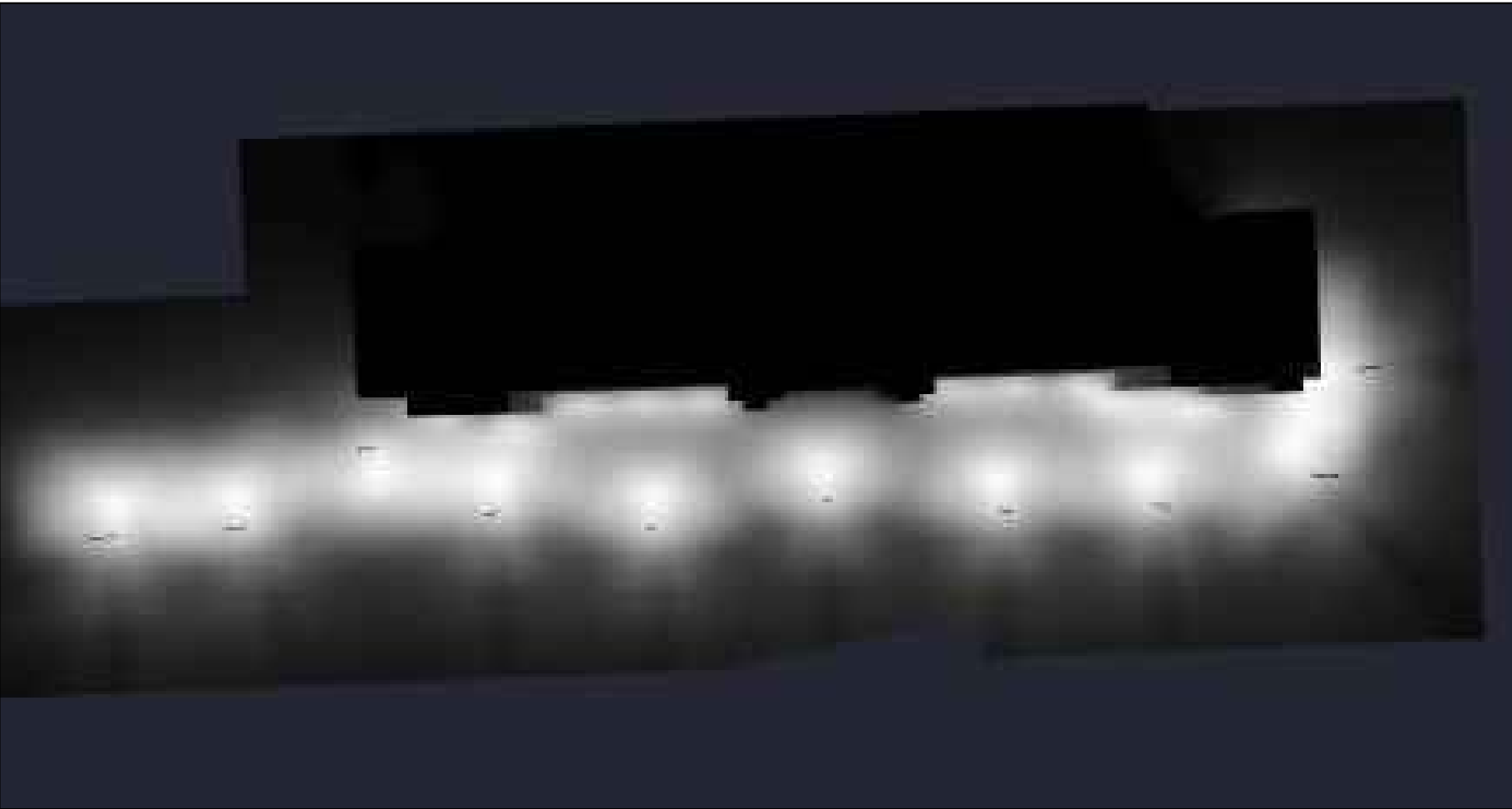
- 1 The included standards and photometric calculations are based on the AGI.32 Photometric Lighting Program designed to calculate the foot candle readings of lighting fixtures based on the imported data files provided by their manufacturers as illustrated in this plan set.
- 2 **Foot Candle Levels:** all foot candle levels illustrated are initial values based on manufacturer data calculated using no "Light Loss Factor" (LLF)
- 3 **Statistics:** the statistics noted herein were calculated within the project property parameters required by code, including offsite calculations required to assure that the maximum allowable spillage of light is maintained or less.
- 4 **Light Trespass:** Light levels must not exceed 0.5 foot candles on all property lines. For adjacent residential applications, this factor may not exceed 0.0 foot candles offset 10 feet from the property line. At a fifty foot (50') offset from all property lines, the photometric foot candles readings must be 0.0 in all other instances.
- 5 **Pole Height:** The pole heights are noted on the plans and/or by the Light Pole Cut Sheet.
- 6 **Shop Drawings:** the CONTRACTOR must submit shop drawings of all the specified lighting components and poles herein specified prior to the execution of work.

LIGHTING PERFORMANCE NOTES

- 1 If Lighting substitutions are made subsequent to the approval of these permit documents, the CONTRACTOR must submit shop drawings of the replacement fixture and/or pole and heights. These shop drawings must be complete with manufactures full breakdown of lighting components. Upon approval of the shop drawings, BOWMAN will be required to recalculate the photometrics and submit for modification to the Development Order. The CONTRACTOR assumes full risk of implementing any products that are herein specified prior to an approval from the jurisdictional agency when revisions are made.
- 2 All fixtures must be full cut-off style lighting systems.
- 3 For the Village of Estero; all lighting fixtures may not exceed 3,000 Kelvin in lighting temperatures.



PHOTOMETRIC PLAN:



PHOTOMETRIC RENDERINGS:

| Luminaire Schedule |     |       |             |                                           |       |            |                              |            |
|--------------------|-----|-------|-------------|-------------------------------------------|-------|------------|------------------------------|------------|
| Symbol             | Qty | Label | Arrangement | Description                               | LLF   | Lum. Watts | Mtg Height                   | BUG Rating |
|                    | 10  | SA    | Single      | Lithonia MR1 LED 42C<br>530 40K SR3 MVOLT | 0.900 | 75         | 18                           | B1-U0-G2   |
|                    | 13  | W4    | Single      | Lithonia WPX1 LED P1<br>40K Mvolt         | 0.900 | 12         | 12   45   65<br>(Wall Mount) | B1-U0-G1   |

| Calculation Summary       |             |       |      |     |     |         |         |
|---------------------------|-------------|-------|------|-----|-----|---------|---------|
| Label                     | CalcType    | Units | Avg  | Max | Min | Avg/Min | Max/Min |
| Parking Lot               | Illuminance | Fc    | 1.95 | 4.0 | 0.2 | 9.75    | 20.00   |
| Property Line             | Illuminance | Fc    | 0.28 | 2.9 | 0.0 | N.A.    | N.A.    |
| Property Line-10ft Beyond | Illuminance | Fc    | 0.13 | 2.1 | 0.0 | N.A.    | N.A.    |
| Property Line-50ft Beyond | Illuminance | Fc    | 0.00 | 0.1 | 0.0 | N.A.    | N.A.    |

| Luminaire Location Summary |       |    |        |      |
|----------------------------|-------|----|--------|------|
| LumNo                      | Label | Z  | Orient | Tilt |
| 1                          | SA    | 18 | 272    | 0    |
| 2                          | SA    | 18 | 92     | 0    |
| 3                          | SA    | 18 | 92     | 0    |
| 4                          | SA    | 18 | 92     | 0    |
| 5                          | SA    | 18 | 98     | 0    |
| 6                          | SA    | 18 | 92     | 0    |
| 7                          | SA    | 18 | 92     | 0    |
| 8                          | SA    | 18 | 110    | 0    |
| 9                          | W4    | 12 | 272    | 0    |
| 10                         | W4    | 12 | 272    | 0    |
| 11                         | W4    | 12 | 272    | 0    |
| 12                         | W4    | 12 | 272    | 0    |

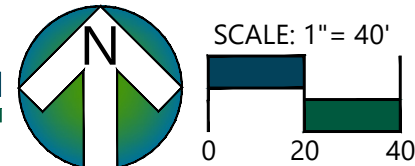
| Luminaire Location Summary |       |    |        |      |
|----------------------------|-------|----|--------|------|
| LumNo                      | Label | Z  | Orient | Tilt |
| 13                         | W4    | 12 | 272    | 0    |
| 14                         | W4    | 12 | 272    | 0    |
| 15                         | W4    | 12 | 272    | 0    |
| 16                         | W4    | 12 | 272    | 0    |
| 17                         | W4    | 12 | 272    | 0    |
| 18                         | W4    | 12 | 272    | 0    |
| 19                         | W4    | 12 | 272    | 0    |
| 21                         | W4    | 12 | 2      | 0    |
| 22                         | W4    | 12 | 2      | 0    |
| 23                         | SA    | 18 | 180    | 0    |
| 24                         | SA    | 18 | 135    | 0    |

GENERAL PHOTOMETRIC NOTES

CONDITIONS & LIMITATIONS:

- 1 Footcandle analysis is provided through software applications and manufacture provided IES files.
- 2 All Lighting Fixtures proposed are full cut off with flat glass lenses with no tilt factors.
- 3 This Lighting Layout meets IES RP8-22 recommendations for basic parking lot lighting levels and uniformity.
- 4 Footcandle results illustrated by these plans do not include shadowing effects that may be caused by obstructions such as trees, palms, or other elements that may be applied by other applications.
- 5 The IES Photometric Files used for this lighting analysis were provided by the Light Fixture Manufacturer. The accuracy of these files are the responsibility of the Manufacturer in effort to generate accurate readings for Photometric purposes.
- 6 Conformance to any and all Applicable Ordinances for Lighting Operations will be the Responsibility of the Owner or Management Company of the Property.
- 7 The Accurate Placement, Orientation, and Compliance with the Specified Materials and Placement Heights is essential to replicate the readings illustrated by these documents. Any incorrect Fc readings or light trespass upon adjacent properties during the certification process may require material site adjustments or material replacements if these plans are not executed as drawn and approved.
- 8 These Photometric Lighting Plans do not imply or include any Electrical Engineering Components required to make the system operational. Consultation with a Licensed Electrical Engineer or Contractor to implement the necessary Electrical connections is required.

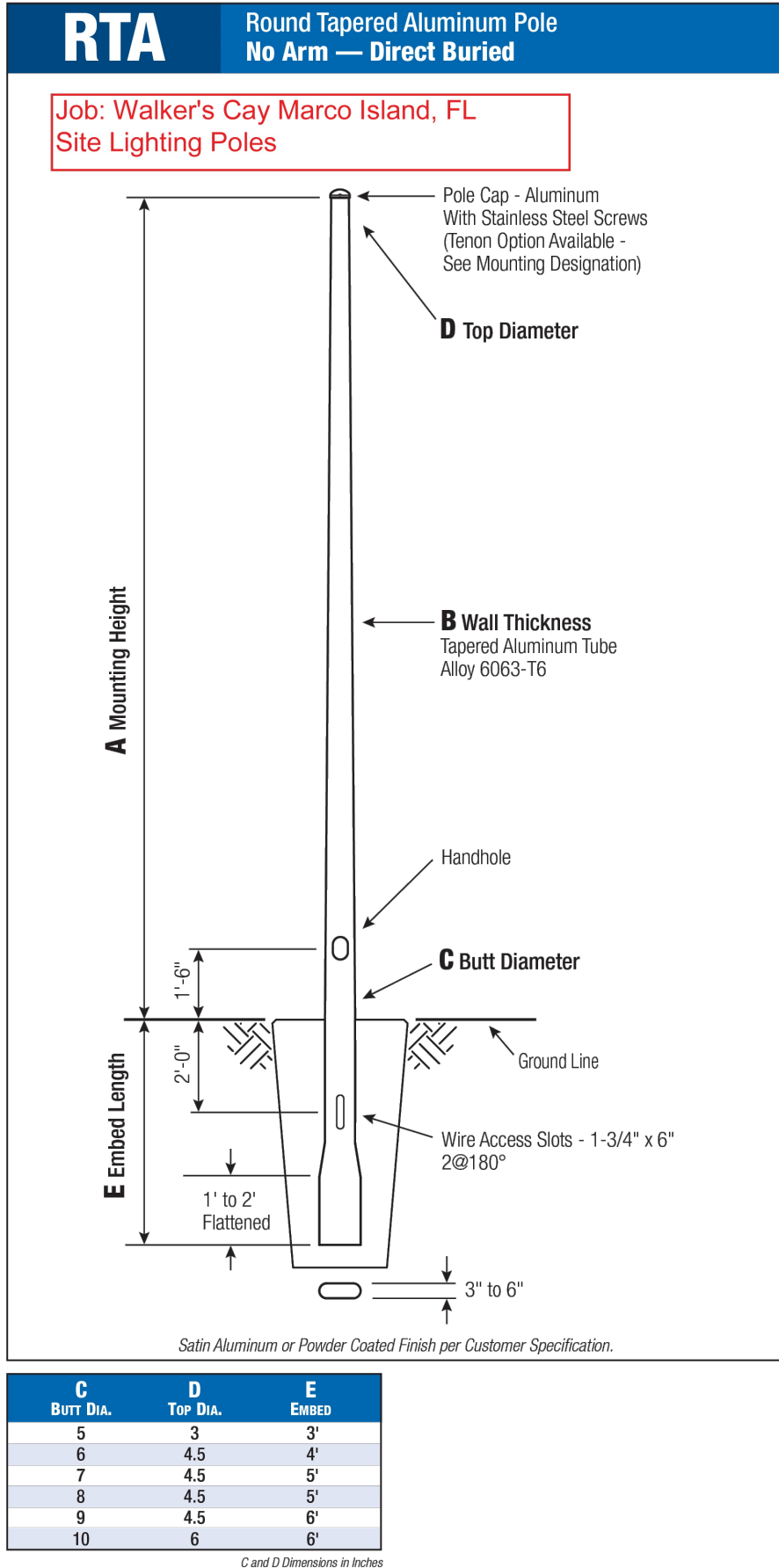
OUTDOOR SITE LIGHTING PHOTOMETRIC PLAN:



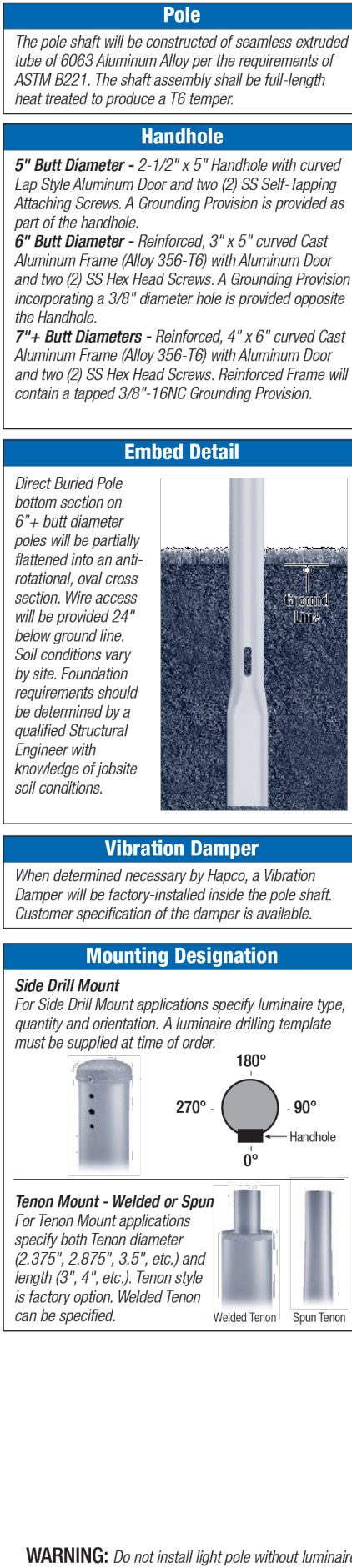
| REV# | DATE       | REVISION                        |
|------|------------|---------------------------------|
| 1    | 2025/06/02 | Updated Civil Base              |
| 2    | 2025/02/10 | Updated Pole Callout            |
| 3    | 2025/10/20 | Updated Lighting & Photometrics |

## LIGHT POLE DIAGRAMS:

(SEE SCHEDULE FOR SPECIFIED POLE HEIGHTS)



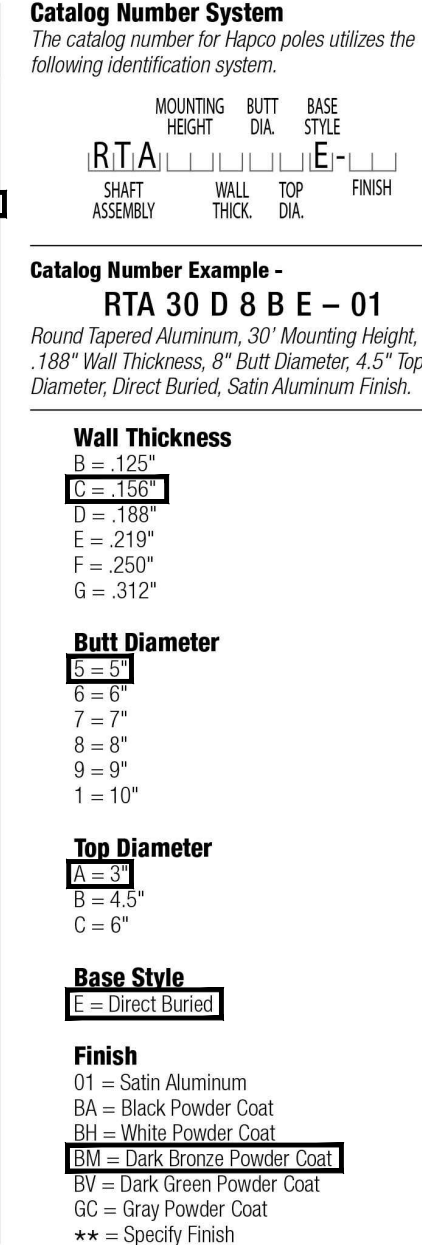
20 **hapco** www.hapco.com



## LIGHT POLE DIAGRAMS:

(SEE SCHEDULE BELOW FOR SPECIFIED POLE HEIGHTS)

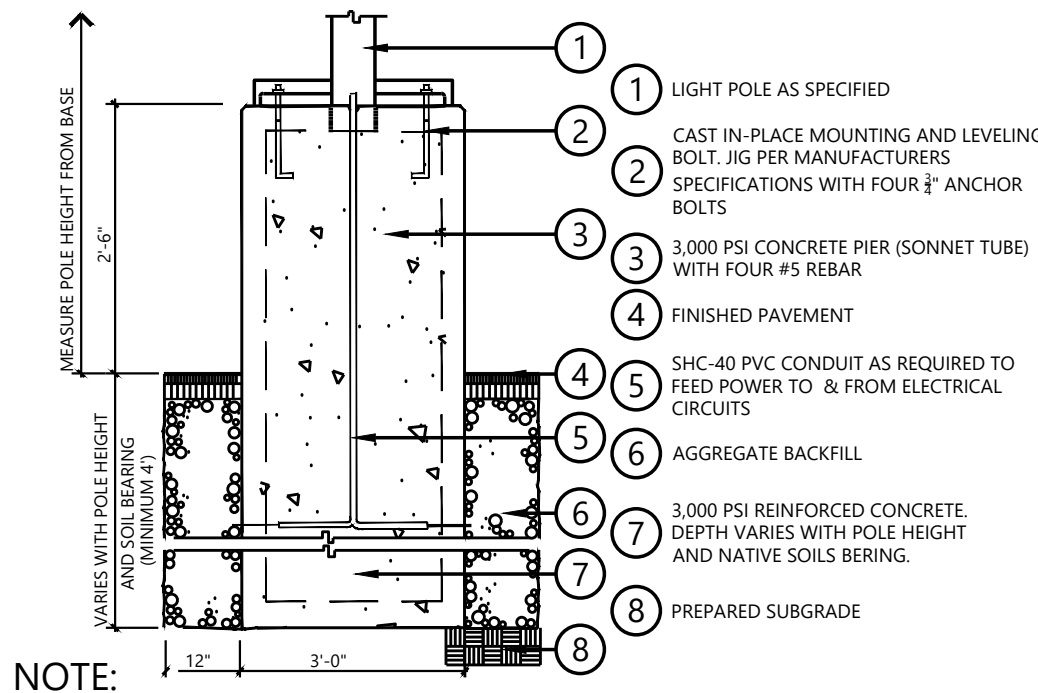
| A        | B              | C             | D                 | E    | F    | G    | H   | I   | J   | K   | L   | M   | N   | O   | P   | Q   | R   | S   | T   | U   | V   | W   | X   | Y   | Z   | AA  | AB  | AC  | AD  | AE  | AF  | AG  | AH  | AI  | AJ  | AK  | AL  | AM  | AN  | AO  | AP  | AQ  | AR  | AS  | AT  | AU  | AV  | AW  | AX  | AY  | AZ  | BA  | BB  | BC  | BD  | BE  | BF  | BG  | BH  | BI  | BJ  | BK  | BL  | BM  | BN  | BO  | BP  | BQ  | BR  | BS  | BT  | BU  | BV  | BW  | BX  | BY  | BZ  | CA  | CB  | CC  | CD  | CE  | CF  | CG  | CH  | CI  | CJ  | CK  | CL  | CM  | CN  | CO  | CP  | CQ  | CR   | CS  | CT  | CU  | CV  | CW  | CX  | CY  | CZ  | DA  | DB  | DC  | DD  | DE  | DF  | DG  | DH  | DI  | DJ  | DK  | DL  | DM  | DN  | DO  | DP  | DQ  | DR  | DS  | DT  | DU  | DV  | DW  | DX  | DY  | DZ  | EA  | EB  | EC  | ED  | EE  | EF  | EG  | EH  | EI  | EJ  | EK  | EL  | EM  | EN  | EO  | EP  | EQ  | ER  | ES  | ET  | EU  | EV  | EW  | EX  | EY  | EZ  | FA  | FB  | FC  | FD  | FE  | FF  | FG  | FH  | FI  | FJ  | FK  | FL  | FM  | FN  | FO  | FP  | FQ  | FR  | FS  | FT  | FU  | FV  | FW  | FX  | FY  | FZ  | GA  | GB  | GC  | GD  | GE  | GF  | GG  | GH  | GI  | GJ  | GK  | GL  | GM  | GN  | GO  | GP  | GQ  | GR  | GS  | GT  | GU  | GV  | GW  | GX  | GY  | GZ  | HA  | HB  | HC  | HD  | HE  | HF  | HG  | HH  | HI  | HJ  | HK  | HL  | HM  | HN  | HO  | HP  | HQ  | HR  | HS  | HT  | HU  | HV  | HW  | HX  | HY  | HZ  | IA  | IB  | IC  | ID  | IE  | IF  | IG  | IH  | II  | IJ  | IK  | IL  | IM  | IN  | IO  | IP  | IQ  | IR  | IS  | IT  | IU  | IV  | IW  | IX  | IY  | IZ  | JA  | JB  | JC  | JD  | JE  | JF  | JG  | JH  | JI  | IJ  | JK  | JL  | JM  | JN  | JO  | JP  | JQ  | JR  | JS  | JT  | JU  | JV  | JW  | JX  | JY  | JZ  | KA  | KB  | KC  | KD  | KE  | KF  | KG  | KH  | KI  | KJ  | KK  | KL  | KM  | KN  | KO  | KP  | KQ  | KR  | KS  | KT  | KU  | KV  | KW  | KX  | KY  | KZ  | LA  | LB  | LC  | LD  | LE  | LF  | LG  | LH  | LI  | LJ  | LK  | LL  | LM  | LN  | LO  | LP  | LQ  | LR  | LS  | LT  | LU  | LV  | LW  | LX  | LY  | LZ  | MA  | MB  | MC  | MD  | ME  | MF  | MG  | MH  | MI  | MJ  | MK  | ML  | MM  | MN  | MO  | MP  | MQ  | MR  | MS  | MT  | MU  | MV  | MW  | MX  | MY  | MZ  | NA  | NB  | NC  | ND  | NE  | NF  | NG  | NH  | NI  | NJ  | NK  | NL  | NM  | NN  | NO  | NP  | NQ  | NR  | NS  | NT  | NU  | NV  | NW  | NX  | NY  | NZ  | OA  | OB  | OC  | OD  | OE  | OF  | OG  | OH  | OI  | OJ  | OK  | OL  | OM  | ON  | OO  | OP  | OQ  | OR  | OS  | OT  | OU  | OV  | OW  | OX | OY | OZ | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK | PL | PM | PN | PO | PP | PQ | PR | PS | PT | PU | PV | PW | PX | PY | PZ | QA | QB | QC | QD | QE | QF | QG | QH | QI | QJ | QK | QL | QM | QN | QO | QP | QQ | QR | QS | QT | QU | QV | QW | QX | QY | QZ | RA | RB | RC | RD | RE | RF | RG | RH | RI | RJ | RK | RL | RM | RN | RO | RP | RQ | RR | RS | RT | RU | RV | RW | RX | RY | RZ | SA | SB | SC | SD | SE | SF | SG | SH | SI | SJ | SK | SL | SM | SN | SO | SP | SQ | SR | SS | ST | SU | SV | SW | SX | SY | SZ | TA | TB | TC | TD | TE | TF | TG | TH | TI | TJ | TK | TL | TM | TN | TO | TP | TQ | TR | TS | TT | TU | TV | TW | TX | TY | TZ | UA | UB | UC | UD | UE | UF | UG | UH | UI | UJ | UK | UL | UM | UN | UO | UP | UQ | UR | US | UT | UU | UV | UW | UX | UY | UZ | VA | VB | VC | VD | VE | VF | VG | VH | VI | VJ | VK | VL | VM | VN | VO | VP | VQ | VR | VS | VT | VU | VV | VW | VX | VY | VZ | WA | WB | WC | WD | WE | WF | WG | WH | WI | WJ | WK | WL | WM | WN | WO | WP | WQ | WR | WS | WT | WU | WV | WW | WX | WY | WZ | XA | XB | XC | XD | XE | XF | XG | XH | XI | XJ | XK | XL | XM | XN | XO | XP | XQ | XR | XS | XT | XU | XV | XW | XX | XY | XZ | YA | YB | YC | YD | YE | YF | YG | YH | YI | YJ | YK | YL | YM | YN | YO | YP | YQ | YR | YS | YT | YU | YV | YW | YX | YZ | ZA | ZB | ZC | ZD | ZE | ZF | ZG | ZH | ZI | ZJ | ZK | ZL | ZM | ZN | ZO | ZP | ZQ | ZR | ZS | ZT | ZU | ZV | ZW | ZX | ZY | ZZ | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | BB | BC | BD | BE | BF | BG | BH | BI | BJ | BK | BL | BM | BN | BO | BP | BQ | BR | BS | BT | BU | BV | BW | BX | BY | BZ | CA | CB | CC | CD | CE | CF | CG | CH | CI | CJ | CK | CL | CM | CN | CO | CP | CQ | CR | CS | CT | CU | CV | CW | CX | CY | CZ | DA | DB | DC | DD | DE | DF | DG | DH | DI | DJ | DK | DL | DM | DN | DO | DP | DQ | DR | DS | DT | DU | DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | EH | EI | EJ | EK | EL | EM | EN | EO | EP | EQ | ER | ES | ET | EU | EV | EW | EX | EY | EZ | FA | FB | FC | FD | FE | FF | FG | FH | FI | FJ | FK | FL | FM | FN | FO | FP | FQ | FR | FS | FT | FU | FV | FW | FX | FY | FZ | GA | GB | GC | GD | GE | GF | GG | GH | GI | GJ | GK | GL | GM | GN | GO | GP | GQ | GR | GS | GT | GU | GV | GW | GX | GY | GZ | HA | HB | HC | HD | HE | HF | HG | HH | HI | HJ | HK | HL | HM | HN | HO | HP | HQ | HR | HS | HT | HU | HV | HW | HX | HY | HZ | IA | IB | IC | ID | IE | IF | IG | IH | II | IJ | IK | IL | IM | IN | IO | IP | IQ | IR | IS | IT | IU | IV | IW | IX | IY | IZ | JA | JB | JC | JD | JE | JF | JG | JH | JI | IJ | JK | JL | JM | JN | JO | JP | JQ | JR | JS | JT | JU | JV | JW | JX | JY | JZ | KA | KB | KC | KD | KE | KF | KG | KH | KI | KJ | KK | KL | KM | KN | KO | KP | KQ | KR | KS | KT | KU | KV | KW | KX | KY | KZ | LA | LB | LC | LD | LE | LF | LG | LH | LI | LJ | LK | LL | LM | LN | LO | LP | LQ | LR | LS | LT | LU | LV | LW | LX | LY | LZ | MA | MB | MC | MD | ME | MF | MG | MH | MI | MJ | MK | ML | MM | MN | MO | MP | MQ | MR | MS | MT | MU | MV | MW | MX | MY | MZ | NA | NB | NC | ND | NE | NF | NG | NH | NI | NJ | NK | NL | NM | NN | NO | NP | NQ | NR | NS | NT | NU | NV | NW | NX | NY | NZ | OA | OB | OC | OD | OE | OF | OG | OH | OI | OJ | OK | OL | OM | ON | OO | OP | OQ | OR | OS | OT | OU | OV | OW | OX | OY | OZ | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK | PL | PM | PN | PO | PP | PQ | PR | PS | PT | PU | PV | PW | PX | PY | PZ | QA | QB | QC | QD | QE | QF | QG | QH | QI | QJ | QK | QL | QM | QN | QO | QP | QQ | QR | QS | QT | QU | QV | QW | QX | QY | QZ | RA | RB | RC | RD | RE | RF | RG | RH | RI | RJ | RK | RL | RM | RN | RO | RP | RQ | RR | RS | RT | RU | RV | RW | RX | RY | RZ | SA | SB | SC | SD | SE | SF | SG | SH | SI | SJ | SK | SL | SM | SN | SO | SP | SQ | SR | SS | ST | SU | SV | SW | SX | SY | SZ | TA | TB | TC | TD | TE | TF | TG | TH | TI | TJ | TK | TL | TM | TN | TO | TP | TQ | TR | TS | TT | TU | TV | TW | TX | TY | TZ | UA | UB | UC | UD | UE | UF | UG | UH | UI | UJ | UK | UL | UM | UN | UO | UP | UQ | UR | US | UT | UU | UV | UW | UX | UY | UZ | VA | VB | VC | VD | VE | VF | VG | VH | VI | VJ | VK | VL | VM | VN | VO | VP | VQ | VR | VS | VT | VU | VV | VW | VX | VY | VZ | WA | WB | WC | WD | WE | WF | WG | WH | WI | WJ | WK | WL | WM | WN | WO | WP | WQ | WR | WS | WT | WU | WV | WW | WX | WY | WZ | XA | XB | XC | XD | XE | XF | XG | XH | XI | XJ | XK | XL | XM | XN | XO | XP | XQ | XR | XS | XT | XU | XV | XW | XX | XY | XZ | YA | YB | YC | YD | YE | YF | YG | YH | YI | YJ | YK | YL | YM | YN | YO | YP | YQ | YR | YS | YT | YU | YV | YW | YX | YZ | ZA | ZB | ZC | ZD | ZE | ZF | ZG | ZH | ZI | ZJ | ZK | ZL | ZM | ZN | ZO | ZP | ZQ | ZR | ZS | ZT | ZU | ZV | ZW | ZX | ZY | ZZ |
|----------|----------------|---------------|-------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--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| Min. Ht. | Wall Thickness | Butt Diameter | Total Lin. Weight | 50   | 100  | 110  | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 570 | 580 | 590 | 600 | 610 | 620 | 630 | 640 | 650 | 660 | 670 | 680 | 690 | 700 | 710 | 720 | 730 | 740 | 750 | 760 | 770 | 780 | 790 | 800 | 810 | 820 | 830 | 840 | 850 | 860 | 870 | 880 | 890 | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 | 1000 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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| 10       | 0.125"         | 5"            | 16.6              | 13.0 | 12.2 | 10.2 | 8.2 | 6.7 | 5.3 | 4.2 | 3.3 | 2.6 | 2.1 | 1.7 | 1.4 | 1.1 | 0.9 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1  | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   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**EPA Notes:**

Effective Projected Area (EPA) in square feet. EPA's calculated using wind velocity (mph) indicated in accordance with 2009 ASHRAE 90.1-2009 using a 25 year design life. Maximum EPA is based on the luminaire weight shown. Increased luminaire weight may reduce the maximum EPA. Weight is indicated, or if other design life or code is required, please consult the factory.

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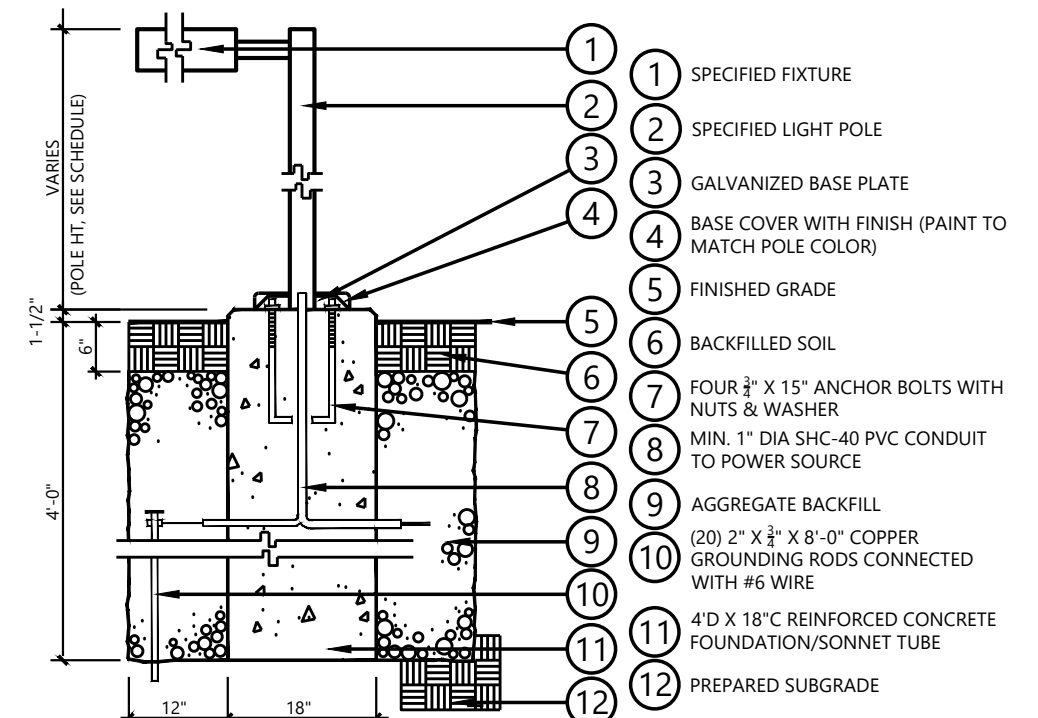


**NOTE:**

THIS POLE MOUNTING DETAIL NO. 2 MAY ONLY BE USED IN PARKING AREAS WHERE THE POLE IS PROTECTED BY WHEEL STOPS THAT WILL PREVENT ANY VEHICLE FROM MAKING CONTACT WITH THE POLE. OTHERWISE THIS DETAIL MUST BE USED. DIRECT BURY POLES MAY NOT BE USED IN PAVED PARKING AREAS.

## TYPICAL LIGHT POLE TUBE MOUNT (Alt for DB)

NOT TO SCALE

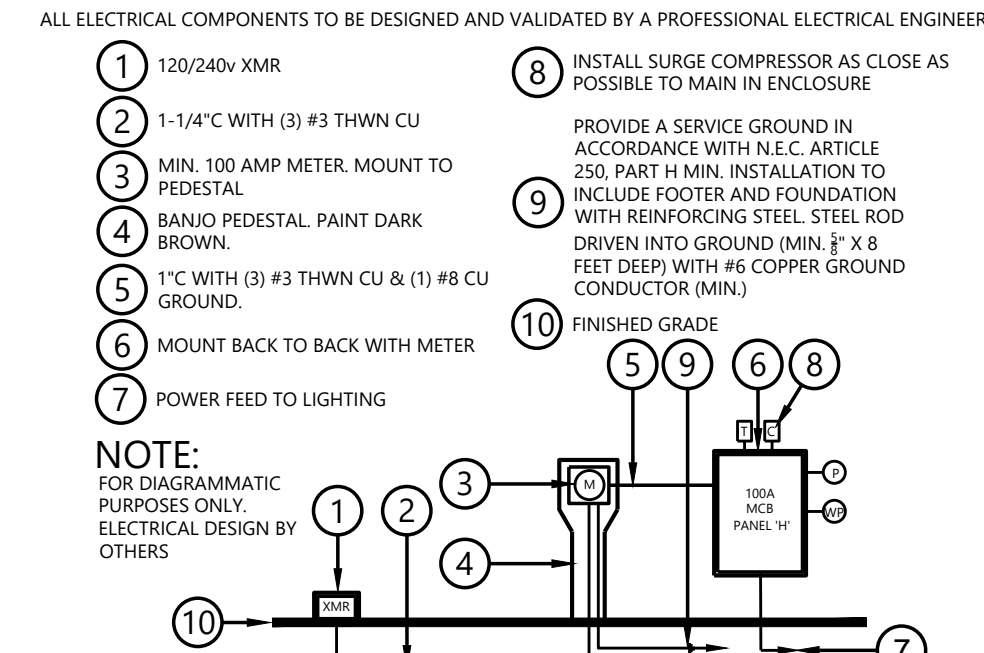


**NOTE:**

THIS POLE MOUNTING DETAIL MAY ONLY BE USED IN PARKING AREAS WHERE THE POLE IS PROTECTED BY WHEEL STOPS THAT WILL PREVENT ANY VEHICLE FROM MAKING CONTACT WITH THE POLE. OTHERWISE DETAIL NO. 1 MUST BE USED. DIRECT BURY POLES MAY NOT BE USED IN PAVED PARKING AREAS.

## TYPICAL LIGHT POLE GROUND MOUNT (Alt for DB)

NOT TO SCALE



## ELECTRICAL RISER DIAGRAM

NOT TO SCALE - ONLY FOR REFERENCE PURPOSES

## ELECTRICAL CONNECTIONS

NOTICE TO OWNER/CONTRACTOR:

- These drawings are strictly limited to the purpose of Exterior Lighting Fixture Selections, Pole Type and locations, and corresponding Photometric Calculations as required by local code. These are NOT electrical drawings nor is electrical circuitry specified.
- The electrical diagrams and accompanying notes herein included only represent a suggested manner in which to provide power in effort to provide said power and to reasonably budget the cost accordingly. No electrical specificity is implied or intended with these photometric drawings.
- The OWNER or CONTRACTOR must employ the services of either a licensed Electrical Engineer or Electrical Contractor to implement these drawings by providing the appropriate electrical systems to energize their applications. At no time should these drawings be executed without the noted professional expertise being involved prior to their installation.

## LIGHTING SPECIFICATIONS & GUIDELINES:

GENERAL NOTES & REQUIREMENTS:

- The Electrical CONTRACTOR must comply with the Standard Building Codes (including the National Electric Code (NEC)) and all local codes as may be applicable. Submittal of Shop Drawings for all components herein specified is required prior to ordering. Any shipment or installation conducted without approved shop drawings will be at the CONTRACTOR'S risk.
- The work herein depicted will include all labor, materials, permits, and costs for the installation of a complete lighting system. These drawings are for product and material specification for photometric lighting calculations as required by code. The products and materials herein specified must be followed or the photometric calculations required by code and the approved permit documents will become void. The CONTRACTOR assumes full responsibility for meeting these requirements and providing all associated electrical components and requirements to energize the system as intended.
- All equipment, fixtures, outlets, etc. must be started, tested, adjusted, and placed in satisfactory operating condition by the CONTRACTOR who shall guarantee all workmanship, materials, and equipment to be free of defects for a period of not less than one-year from

PRODUCT & MATERIAL CUT SHEETS:

TYPE 'SA' LUMINAIRE:  
(MANUFACTURERS MODEL NO. - MR1 LED (Sheet 1 of 3))



MR1 LED  
LED Area Luminaire



Conting Number: MR1-LED-42C-530-40K-SR5-MVOLT-RPA-DBDXD

Notes: Walker's Cay Marco Island, FL

Type: SA

At the top of or move over the page to see of interactive elements.

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability!
- This luminaire is part of an A+ Certified solution for ROAM2 or Roam™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**

To learn more about A+ visit [www.acuitybrands.com/aplus](#).

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately. [Link to Roam](#) [Link to DTL DLL](#)

Ordering Information

EXAMPLE: MR1 LED 42C 700 40K SR5 MVOLT SPA DBDXD

| Series  | Size                  | Driver Current | Color temperature | Distribution | Voltage  | Mounting                 |
|---------|-----------------------|----------------|-------------------|--------------|----------|--------------------------|
| MR1 LED | 42C 41 LED (per ring) | 350 320mA      | 30K 3000K         | SR2 Type I   | 50V 277V | SPA Square pole mounting |
|         |                       | 700 320mA      | 40K 4000K         | SR5 Type II  | 208V 347 | SPA Round pole mounting  |
|         |                       | 700 320mA      | 50K 5000K         |              |          | SPA Wall bracket         |

Control Options

Other Options

Finish/Mount

Shipped/Installed

PER - With wall kit (except only for controls)

PER - For wire-remote only (no controls)

PER - Seven wire remote only (no controls)

DMG - On the drawing who pulled extra heat (On use with an external control, ordered separately)

BL30 - Bi-level white/dimming, 30%<sup>(1)</sup>

BL50 - Bi-level white/dimming, 50%<sup>(1)</sup>

PMW7000 - Part right, dim 0.5 to 1

PMW5000 - Part right, dim 0.5 to 1

PMW7000 - Part right, dim 0.5 to 1

SR2 - Single face (100, 277, 347V)

SR5 - Double face (208, 346, 480V)

DTL - Diffusing lens

DBDXD - Dark bronze

DBL30 - Black

DBALD - Natural aluminum

DBW30 - White

DBD30 - Textured dark bronze

DBL30 - Textured black

DBW30 - Textured natural aluminum

DBD30 - Textured white

 Commercial Outdoor

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TYPE 'SA' LUMINAIRE:  
(MANUFACTURERS MODEL NO. - MR1 LED (Sheet 2 of 3))

Ordering Information

EXAMPLE: MR1 LED 42C 700 40K SR5 MVOLT SPA DBDXD

| Series  | Size                  | Driver Current | Color temperature | Distribution | Voltage  | Mounting                 |
|---------|-----------------------|----------------|-------------------|--------------|----------|--------------------------|
| MR1 LED | 42C 41 LED (per ring) | 350 320mA      | 30K 3000K         | SR2 Type I   | 50V 277V | SPA Square pole mounting |
|         |                       | 700 320mA      | 40K 4000K         | SR5 Type II  | 208V 347 | SPA Round pole mounting  |
|         |                       | 700 320mA      | 50K 5000K         |              |          | SPA Wall bracket         |

Control Options

Other Options

Finish/Mount

Shipped/Installed

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PER - For wire-remote only (no controls)

PER - Seven wire remote only (no controls)

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PMW5000 - Part right, dim 0.5 to 1

PMW7000 - Part right, dim 0.5 to 1

SR2 - Single face (100, 277, 347V)

SR5 - Double face (208, 346, 480V)

DTL - Diffusing lens

DBDXD - Dark bronze

DBL30 - Black

DBALD - Natural aluminum

DBW30 - White

DBD30 - Textured dark bronze

DBL30 - Textured black

DBW30 - Textured natural aluminum

DBD30 - Textured white

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TYPE 'SA' LUMINAIRE:  
(MANUFACTURERS MODEL NO. - MR1 LED (Sheet 3 of 3))

Ordering Information

EXAMPLE: MR1 LED 42C 700 40K SR5 MVOLT SPA DBDXD

| Series  | Size                  | Driver Current | Color temperature | Distribution | Voltage  | Mounting                 |
|---------|-----------------------|----------------|-------------------|--------------|----------|--------------------------|
| MR1 LED | 42C 41 LED (per ring) | 350 320mA      | 30K 3000K         | SR2 Type I   | 50V 277V | SPA Square pole mounting |
|         |                       | 700 320mA      | 40K 4000K         | SR5 Type II  | 208V 347 | SPA Round pole mounting  |
|         |                       | 700 320mA      | 50K 5000K         |              |          | SPA Wall bracket         |

Control Options

Other Options

Finish/Mount

Shipped/Installed

PER - With wall kit (except only for controls)

PER - For wire-remote only (no controls)

PER - Seven wire remote only (no controls)

DMG - On the drawing who pulled extra heat (On use with an external control, ordered separately)

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PMW7000 - Part right, dim 0.5 to 1

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SR5 - Double face (208, 346, 480V)

DTL - Diffusing lens

DBDXD - Dark bronze

DBL30 - Black

DBALD - Natural aluminum

DBW30 - White

DBD30 - Textured dark bronze

DBL30 - Textured black

DBW30 - Textured natural aluminum

DBD30 - Textured white

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MH NOTE:

ALL SITE LOCATED LIGHT POLES ARE TO HAVE A MAXIMUM MOUNTING HEIGHT OF EIGHTEEN FEET (18').

TYPE 'W4' LUMINAIRE:  
(MANUFACTURERS MODEL NO. - WPX LED (Sheet 1 of 2))

WPX LED Wall Packs







