LUMINAIRE: S55CI-85QL-DSX5-120V-PH8-FS
POLE: AM6F-14-BA
BANNER ARM: = SINGLE

MANUFACTURER: LUMEC

LAMP/DISCHARGE VESSEL: 85W INDUCTION LAMP, CRI 80+, 4000K, AVERAGE RATED LIFE: NOT LESS THAN 100,000 HRS
MEAN HORIZONTAL LUMENS: 4800HRS / INITIAL HORIZONTAL LUMENS: 6000HRS

INDUCTION LAMPS SHALL BE FACTORY INSTALLED IN QUALIFIED LUMINAIRES, INDUCTION LAMPS SHALL CONSIST OF: DISCHARGE VESSEL (BULB), POWER COUPLER (INDUCTION COIL AND CORE), AND HF GENERATOR.

ELECTRICAL MODULE: ALL ELECTRICAL COMPONENTS SHALL BE UL AND CSA RECOGNIZED, MOUNTED ON A SINGLE PLATE AND FACTORY PREWIRED WITH QUICK-DISCONNECT PLUGS FOR ATTACHMENT TO THE INCOMING WIRES AND THE SOCKET WIRES. THE MODULE ATTACHES INSIDE THE HOUSING USING KEYHOLE SLOTS. GENERATOR SHALL BE MULTI-TAP (120,240) WIRED AT 120V.

HOUSING: THE ELECTRICAL MODULE HOUSING IS A ONE PIECE DIE-CAST ALUMINUM COMPONENT WITH INTEGRAL COOLING FINS. THE REFLECTOR HOUSING IS ONE PIECE DIE-CAST ALUMINUM. THE HOUSING ATTACHES TO THE REFLECTOR HOUSING WITH STAINLESS STEEL FASTENERS AND IS SEALED WITH A SILICONE GASKET.

LENS/FRAME: ONE PIECE CAST ALUMINUM. PROVIDE STAINLESS STEEL HINGES FOR ATTACHMENT TO THE REFLECTOR HOUSING. PROVIDE A THICK CLEAR FLAT TEMPERED GLASS LENS AND SEAL AT THE REFLECTOR FLANGE BY A ONE PIECE EXTRUDED SILICONE GASKET WITH FUSED SEAM, TO PRODUCE A FULLY SEALED OPTICAL CHAMBER.

OPTICAL SYSTEM SHALL BE CUTOFF WITH LESS THAN 1% UP-LIGHT.

REFLECTOR MODULE: SPECULAR ALZAK OPTICAL SEGMENTS ARE RIGIDLY MOUNTED WITHIN AN ALUMINUM ENCLOSURE WHICH ATTACHES TO THE REFLECTOR HOUSING AS A ONE PIECE MODULE. REFLECTORS ARE FIELD ROTATABLE IN 90° INCREMENTS. ALL SOCKETS ARE FACTORY PREWIRED WITH A QUICK-DISCONNECT PLUG, WITH WIRES PASSING THROUGH A SILICONE GASKET TO MAINTAIN SEALED OPTICAL CHAMBER INTEGRITY. THE OPTICAL SEGMENTS ARE POSITIONED SO THAT REFLECTED LIGHT DOES NOT PASS THROUGH THE LAMP. ALL OPTICAL SYSTEMS SHALL BE INTERCHANGEABLE WITHIN THE HOUSING.

PHOTOCELL: TWISTLOCK, PH8, ANSI C136.10 LATEST REVISION. VOLTAGE SHALL BE 120V. THE PHOTOELECTRIC CELL CIRCUITRY SHALL BE DESIGNED TO BE NORMALLY CLOSED AT NIGHT.
THE RELAY SHALL HAVE A TIME DELAY TO AVOID OPERATION DUE TO LIGHTNING AND TRANSIENT LIGHT. IN THE EVENT OF A FAILURE, THE RELAY SHALL FAIL "SAFE" ON IN THE EVENT OF ANY FAILURE IN THE ELECTRONIC CIRCUIT.

FINISH: LUMITAL POLYESTER POWDER COAT PAINT, 2.5 MIL NOMINAL THICKNESS, APPLIED OVER A CHROMATE CONVERSION COATING; A.S.T.M. 2500 HOUR SALT SPRAY TEST ENDURANCE RATING. COLOR - TEXTURED BLACK

CERTIFICATION: UL LISTED TO U.S. SAFETY STANDARDS FOR WET LOCATIONS. FIXTURE MANUFACTURER SHALL EMPLOY A QUALITY PROGRAM THAT IS AUDITED TO ISO9001 STANDARDS.

POLE

POLE CONSTRUCTION: ONE-PIECE, SEAMLESS 4" -ROUND (102 MM) TUBE OF EXTRUDED ALUMINUM WELDED OVER AND IN A 6 5/8" -ROUND (168 MM) EXTRUDED-ALUMINUM POLE BASE. THE ASSEMBLY IS WELDED TO BOTH THE TOP AND BOTTOM OF A REINFORCED BASE CAST FROM ZINC-RICH ALUMINUM. A 4" BY 9" (102 BY 229 MM) MAINTENANCE OPENING, COMPLETE WITH COVER AND COPPER GROUND LUG, IS CENTERED 21" (533 MM) FROM THE BOTTOM OF THE ANCHOR PLATE.

JOINT COVER: MADE FROM TWO PIECES OF CAST ALUMINUM MECHANICALLY FASTENED TO THE JUNCTION WITH STAINLESS STEEL SCREWS.

BASE COVER: MADE FROM TWO PIECES OF CAST ALUMINUM MECHANICALLY FASTENED TO THE BASE WITH STAINLESS STEEL SCREWS.

HANDHOLE: 21" UP FROM BASE, WITH A GASKETED COVER AND GROUND LUG.

MOUNTING ACCESSORIES: FOUR STAINLESS STEEL ANCHOR BOLTS PROVIDED COMPLETE WITH EIGHT NUTS, EIGHT FLAT WASHERS, AND A PRESSWOOD TEMPLATE.

STRENGTH: POLES SHALL WITHSTAND STEADY WINDS (MINIMUM EPA OF 90) WHEN LUMINAIRES ARE MOUNTED PER FIXTURE INSTALLATION INSTRUCTIONS.

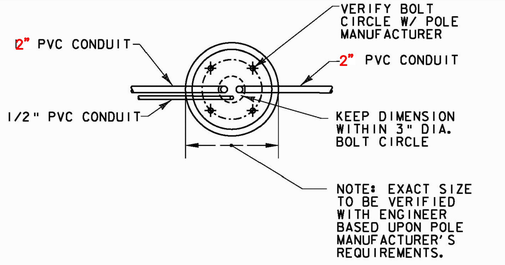
WARNING: DO NOT INSTALL POLES WITHOUT LUMINAIRES OR STRENGTH GUARANTEE IS VOIDED. ANY UNAUTHORIZED ACCESSORIES SECURED TO POLE SHALL VOID STRENGTH GUARANTEE.

FINISH: HOT DIP CHEMICAL ETCHING PREPARATION. THERMOSET POLYESTER POWDER COAT PAINT. DURABLE UV-RESISTANT EXTERIOR FINISH AS PER ASTM G7 AND OUTSTANDING SALT-SPRAY RESISTANCE ACCORDING TO ASTM D2247 TESTING PROCEDURES. COLOR - TEXTURED BLACK

GFCI: NONE

WARRANTY: WRITTEN MANUFACTURER'S WARRANTY, AGREEING TO REPLACE EXTERNAL PARTS OF LUMINAIRES AND POLES EXHIBITING A FAILURE OF FINISH AS SPECIFIED BELOW. PROTECTION OF METAL FROM CORROSION: WARRANTY AGAINST PERFORATION OR EROSION OF FINISH DUE TO WEATHERING. COLOR RETENTION: WARRANTY AGAINST FADING, STAINING, AND CHALKING DUE TO EFFECTS OF WEATHER AND SOLAR RADIATION.

WARRANTY PERIOD: NOT LESS THAN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.



CONCRETE BASE AND GENERAL NOTES:

1. ALL CONCRETE BASES SHALL BE POURED ON-SITE, NOT PRE-FABRICATED. WHERE SITE CONDITIONS PROHIBIT DEPTH REQUIRED DUE TO PRESENCE OF LEDGE, THE CONTRACTOR SHALL DRILL LEDGE TO A DEPTH OF 12" AND SET 3-#4 REBARS INTO LEDGE WITH CONCRETE. MINIMUM 3' CONCRETE BASE AS SHOWN SHALL BE POURED IN PLACE TO INCORPORATE SET REBAR.

2. ALL CONCRETE BASES SHALL BE SIZED BASED ON MANUFACTURER REQUIREMENTS.

3. CONCRETE USED FOR THE CONSTRUCTION OF THE BASES SHALL BE CONCRETE CLASS B, AND SHALL HAVE A SMOOTH LEVEL TOP SURFACE AT A HEIGHT AS SHOWN ABOVE GRADE AND FINISHED WITH A 3/4" RADIUS EDGING TOOL.

4. ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS FOR "REINFORCING STEEL".

5. PROVIDE BOLT CIRCLE TEMPLATE FOR ANCHOR BOLTS, STAINLESS STEEL ANCHOR BOLTS, NUTS AND WASHERS TO BE OBTAINED BY CONTRACTOR PRIOR TO CONSTRUCTION OF BASES.

6. CONDUIT SIZE - AS SHOWN ON THE PLANS AND ONE-LINE.

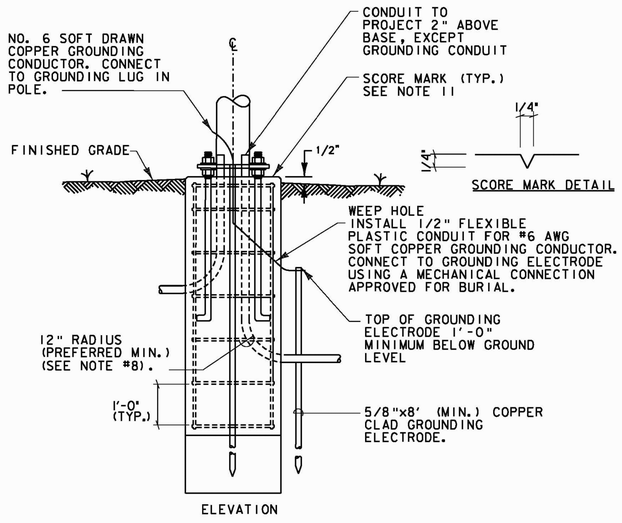
7. ALL EXPOSED METAL HARDWARE SHALL BE STAINLESS STEEL.

8. IF THE ELECTRICAL CONDUIT IN THE CONCRETE BASE IS GALVANIZED STEEL, GROUNDING BUSHINGS SHALL BE USED.

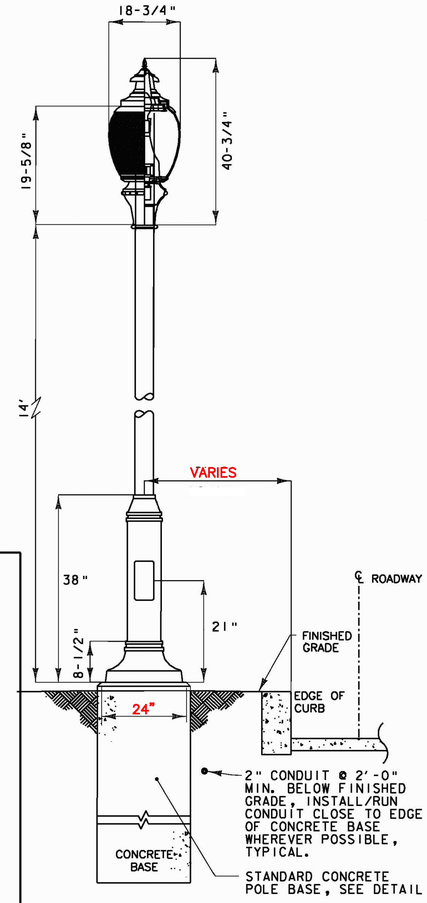
9. THE MINIMUM RADIUS FOR RIGID METALLIC OR NONMETALLIC ELECTRICAL CONDUIT SHALL BE SIX TIMES THE INSIDE DIAMETER OF THE CONDUIT.

10. GROUT TO ELIMINATE ANY SPACE BETWEEN CONCRETE BASE AND METAL BASE OF FIXTURE.

11. SCORE TOP OF CONCRETE BASE TO SHOW LOCATION OF CONDUIT(S).



CONCRETE BASE DETAIL
NOT TO SCALE

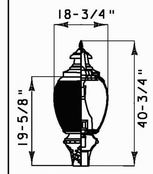


STREET LIGHTING
TYPE 'A'
NOT TO SCALE

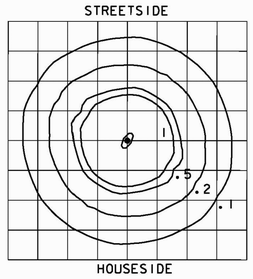
LUMINAIRE:
LENS: GLASS GLOBE
HOUSING: ALUMINUM

LAMP:
TYPE: 85W INDUCTION LAMP
LUMENS: 7500 MEAN LMS

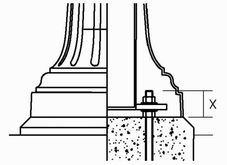
ANSI/IES TYPE:
TYPE V CUT-OFF
OPTICS



MOUNTING HEIGHT TO LUMINOUS CENTER: 15.6'
GRID SIZE: 10'



FIXTURE TYPE 'A'
ISO-FOOTCANDLE DATA
NOT TO SCALE



X = 3"
COMES WITH 4 ANCHOR BOLTS, 8 NUTS AND 8 WASHERS.

- NOT TO SCALE -

NOTES:

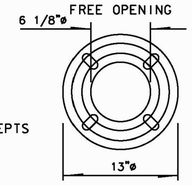
1. FIXTURES SHALL BE INSTALLED ON A STRAIGHT LINE WHICH IS DETERMINED BASED ON THE NOMINALLY DISTANCE SHOWN FROM THE EDGE OF ROADWAY.

2. EDGE OF ROADWAY SHALL BE DETERMINED BASED UPON AN AVERAGE DISTANCE FROM CENTERLINE OF ROADWAY.

3. STRAIGHTLINE LAYOUT AND FIXTURE LOCATIONS SHALL BE MARKED WITH STAKES AND APPROVED BY THE OWNER/ENGINEER BEFORE PROCEEDING WITH INSTALLATION.

ANCHOR PLATE

- B.C.: 13"ø
- THICKNESS: 3/4" 19mm
- NOTE:
  THIS ANCHOR PLATE ACCEPTS A BOLT CIRCLE FROM 8-3/4"ø @ 11"ø
- ANCHORING BOLTS STEEL, 1"x 36"



RECORD DRAWING TYPE 'A' BASE DETAILS
DATE: DECEMBER 21, 2012

Stantec

PROJECT NAME:	COLCHESTER CAMPUS CONNECTOR
PROJECT NUMBER:	TCSP TCSE (007)
FILE NAME: ...\123-125_Lightdet.ptf	PLOT DATE: 12/2/2010
PROJECT LEADER: JBL	DRAWN BY: PZA
DESIGNED BY: MLC	CHECKED BY: GGG
LIGHTING DETAIL LID-2	SHEET 120 OF 153