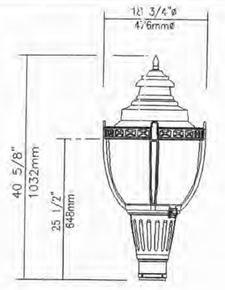


Qty 2 Luminaire **SS5C2-65W49LED4K-ACDR-LE3-120-SFX-BKTX**

Description of Components:

Finial: Decorative cast 356 aluminum, mechanically assembled.

Hood: Spun aluminum 1100-0 dome, permanently assembled to the globe.

Guard: In a round shape, this guard is made of four cast aluminum 356 decorative arms and one decorative ring. The guard is welded to the fitter.

Globe: (ACDR), One-piece, seamless, injected-molded impact-resistant (DR) acrylic globe having an inner prismatic surface with semi-prismatic house side shield and glare softening prisms on the street side. The smooth external finish offers self-cleaning properties. The globe is permanently sealed onto the access-mechanism.

Lamp: *(Included)*, Composed of 49 high performance white LEDs, 65w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan, 70 000 hours after which the system emits 70% of its original lumen output, all of those parameters are tested for 100% of light engines. Use of a metal core board insures greater heat transfer and longer lifespan of the light engine

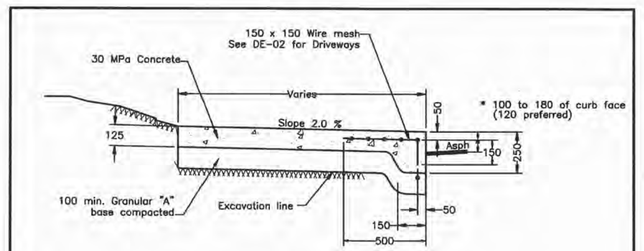
Optical System: (LE3), I.E.S type III (asymmetrical), Composed of high performance collimators, optimized with varying acrylic beam angles to achieve desired distribution. System is rated IP66. Performance shall be tested per LM63 and LM79 (IESNA) certifying its photometric performance. Street-side indicated.

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (passive cooling device)

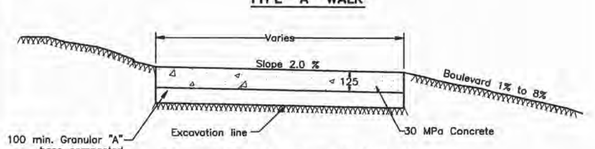
Driver: High power factor of 99%. Electronic driver, operating range 50-60 Hz. **Auto-adjusting to a voltage between 120 and 277 volt AC, Class II**, THD of 20%. Maximum ambient operating temperature from -40F(40C) to 130F(55C) degrees. Certified in compliance to CUL requirement. Weather tightness rating IP66. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 105F(40.5C) degrees.

PHILIPS LUMEC 640, Cure-Boivin Boisbriand (Québec) Canada, J7G 2A7

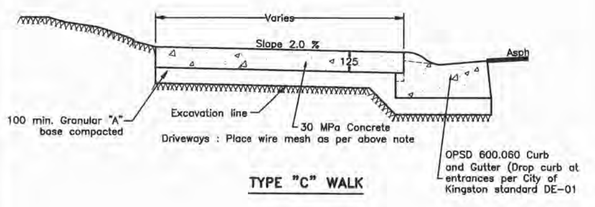
NOTE:
TWO (2) NEW LIGHT POSTS TO HAVE ELECTRICITY FED UNDER NEW WALK INTO BASEMENT ELECTRICAL ROOM IN EXISTING PANEL. CONCEAL ALL CONDUIT WHERE POSSIBLE.



TYPE "A" WALK



TYPE "B" WALK



TYPE "C" WALK

ALL DIMENSIONS ARE IN MILLIMETRES

CITY OF KINGSTON
ENGINEERING DEPARTMENT

SECTION OF STANDARD ONE-COURSE CONCRETE WALK

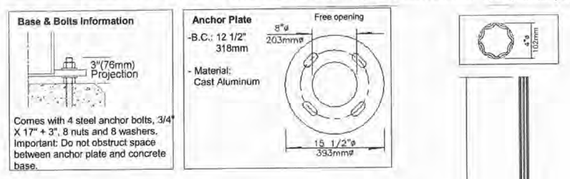
Revised March 28 2007 D-183-M

The current supplying the LEDs will be reduced by the driver if the internal temperature exceeds 203F(95C), as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction.

Surge Protector: LED Driver 3 poles surge Protectors that protect Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE / ANSI C62.41.2 guidelines.

Access-Mechanism: A cast A360.1 aluminum technical ring with latch and hinge. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofness.

Fitter: Cast aluminum A360.1 c/w 4 set screws 3/8-16 UNC, Fits on a 4"(102mm) outside diameter by 4"(102mm) long tenon.



Qty 1 Pole **R80A-12-BKTX**

Description of Components:

Pole Shaft: Shall be made from a 4" (102mm) 8 fluted round extruded 6061-T6 aluminum tubing, having a 0.167" (4.2mm) wall thickness, welded to the pole base.

Joint Cover: One-piece round joint cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

Pole Base: Shall be made from a round fluted cast 356-T6 aluminum base having a 0.375" (9.5mm) wall thickness, complete with a cast-in anchor plate.

Maintenance Opening: The pole shall have a 4" x 9" (102mm x 229mm) maintenance opening centered 21" (533mm) from the bottom of the anchor plate, complete with a weatherproof cast 356 aluminum cover and a copper ground lug.

Nut cover: Made from cast 356 aluminum, mechanically fastened with stainless steel screws.

IMPORTANT: Philips 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.

PHILIPS LUMEC 640, Cure-Boivin Boisbriand (Québec) Canada, J7G 2A7

TANGENT SUPERELEVATED

LEGEND:
S – Rate of pavement superelevation in percent, %.

NOTES:
1 When curb and gutter is adjacent to concrete pavement or base, this drawing is to be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure, a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

CONCRETE SEMI-MOUNTABLE CURB WITH STANDARD GUTTER

OPSD 600.060

Miscellaneous

Description of Components:

Wiring: Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Hardware: All exposed screws shall be stainless steel with Ceramic primer-seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

Finish: Color to be **black textured (BKTX)**. Application of a polyester powder coat paint. (4 mils/100 microns). The chemical composition provides a highly durable UV and salt spray resistant finish in accordance to the ASTM-B117-73 standard and humidity proof in accordance to the ASTM-D2247-68 standard.

Lamp Technical Information

Lamps #	Rated life-hrs.[1]	LED Manufacturer	CRI	Color Temperature	Initial lumens	Wattage: Lamp	Wattage: System [2]	Max System AC current 120V	LED mA
40W30LED4K	70,000	Philips Lumileds Rebel or Cree XP	70	4000K	2000	40W	43W	0.41A	400mA
49W49LED4K	70,000		70	4000K	3800	42W	47W	0.47A	285mA
80W80LED4K	70,000		70	4000K	4000	80W	86W	0.7A	380mA
65W49LED4K	70,000		70	4000K	5200	65W	72W	0.6A	428mA
90W49LED4K	70,000		70	4000K	5300	90W	102W	1A	571mA
105W79LED4K	70,000		70	4000K	8200	105W	119W	1.15A	428mA
130W96LED4K	70,000	Philips Lumileds Rebel or Cree XP	75	4000K	10400	130W	147W	1.4A	428mA
150W79LED4K	70,000		70	4000K	10350	150W	170W	1.7A	390mA
180W96LED4K	70,000		70	4000K	12600	180W	206W	2A	571mA

[1] Rated life represents the time it takes for the LED suite to reach 70% of initial lumen output.
[2] On average.
[3] System wattage includes the lamp and the LED driver.

- How to calculate the lamp lumen per watt ratio: In the abo ve table and according to your choice of lamp, please note the initial lamp lumen value and divide this value by the lamp wattage. (Example: 40W30LED4K : 2000/40=75)
- How to calculate the system lumen per watt ratio (LER): First, visit our website at www.lumec.com and download the IES file (photometric files) of your selected Philips Lumec product. Then, use a photometric software to get the «bsolute system lumens value and divide by the system wattage. (Example: 40W30LED4K : Absolute system lumens / 40W = LER)

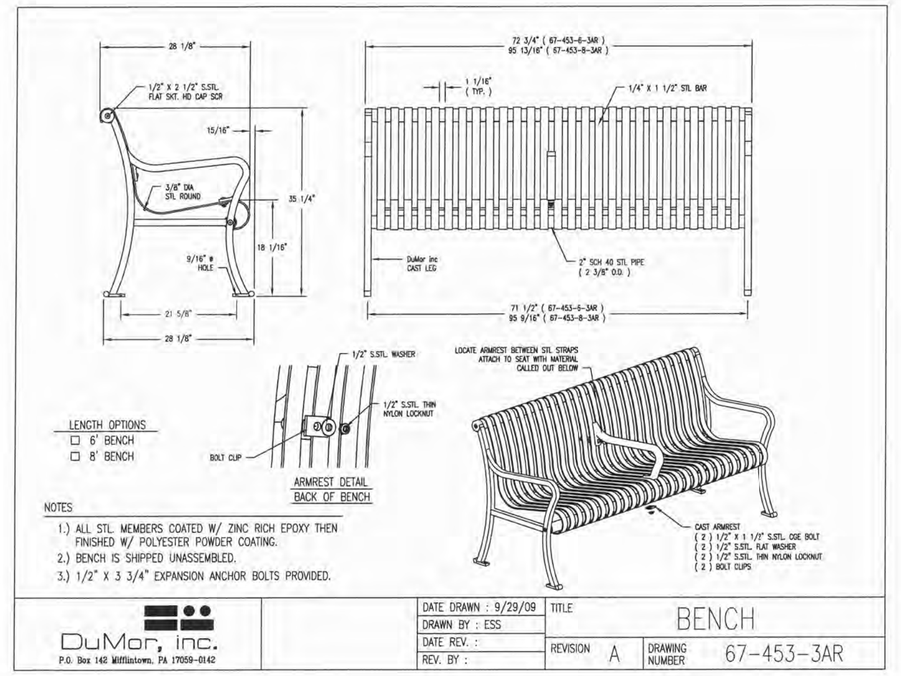
PHILIPS LUMEC 640, Cure-Boivin Boisbriand (Québec) Canada, J7G 2A7

NOTES:
A Directional lines shall be 10x10mm made with grooving tool having a 15mm radius.
B All dimensions are in millimetres or metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | 1993 10 01 | Rev | Date

CONCRETE SIDEWALK RAMPS AT INTERSECTIONS

OPSD – 310.030



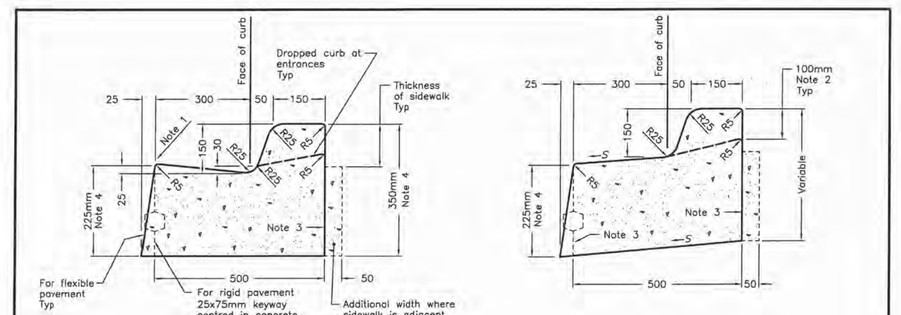
LENGTH OPTIONS
☐ 6' BENCH
☐ 8' BENCH

NOTES
1.) ALL STL. MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2.) BENCH IS SHIPPED UNASSEMBLED.
3.) 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PROVIDED.

DuMor, inc.
P.O. Box 142 Mifflintown, PA 17059-0142

DATE DRAWN : 9/29/09
DRAWN BY : ESS
DATE REV. :
REV. BY :
TITLE: BENCH
REVISION A
DRAWING NUMBER 67-453-3AR

NOTE:
QUANTITY 4 (ALL BENCHES TO BE 6' AND HAVE THE OPTIONAL CENTER ARM REST



TANGENT SUPERELEVATED

LEGEND:
S – Rate of pavement superelevation in percent, %.

NOTES:
1 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
2 Where sidewalk is continuously adjacent, reduce the dropped curb at entrances to 75mm.
3 For slipforming procedure, a 5% batter is acceptable.
4 For composite pavement the depth of concrete curb to be adjusted to depth of concrete pavement.
5 When tie bars are specified, refer to OPSD 552.010 and 552.020 for details.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

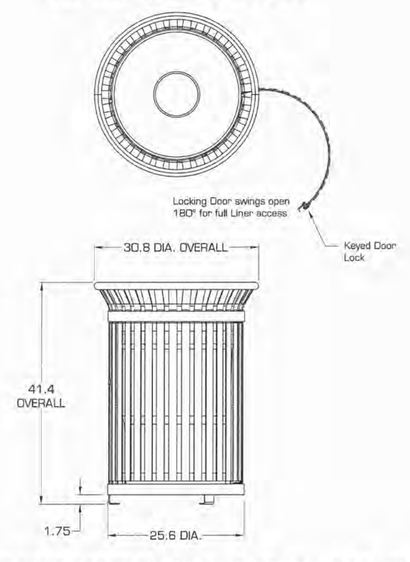
ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

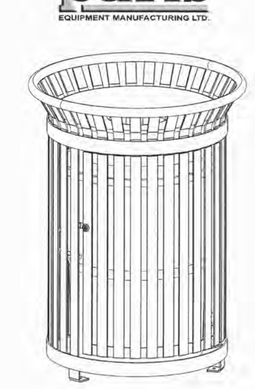
CONCRETE BARRIER CURB WITH STANDARD GUTTER

OPSD 600.040

SPECIFICATIONS

paris EQUIPMENT MANUFACTURING LTD.





MATERIAL SPECIFICATIONS
SLATS, RINGS & BRACKETS - 3/16 HRPO
INSIDE RING - Ø 1/2 HR ROD
TOP RING - Ø 1.5/16 x 1/8" HR TUBE
STANDARD LINER - POLYETHYLENE
(OPTIONAL LINER - GALVANIZED STEEL)
LID - 16 GA GALV
(OPTIONAL LANYARD FOR LID - STAINLESS STEEL BRAIDED CABLE)

NOTE: Optional Inground Leg Mounting Kit Available (P-Leg)

PREMIER 34 GALLON FLARE TOP LITTER RECEPTACLE with DOOR - Model: 71149100

SHEET 1 OF 1 SCALE: 1:16 27MAY04 REV:- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES

NOTE:
QUANTITY – THREE (3)

ernest a. cromarty
architect inc
kingston ontario

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THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

No.	DATE	DESCRIPTION	BY
1	10.08.04	ISSUED FOR TENDER	

REVISIONS

DETAIL REFERENCE SYMBOL
X / Y — detail No. X / drawing No. Y

ONTARIO ASSOCIATION OF ARCHITECTS
ERNEST A. CROMARTY
LICENCE 1268

ARCHITECTURAL ONLY

DRAWINGS MUST NOT BE SCALED
CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND SHALL REPORT ANY DIS-CREPANCY TO THE ARCHITECT BEFORE PROCEEDING WITH ANY WORK.

PROJECT:
RICHARDSON BEACH BATH HOUSE EXTERIOR UPGRADES & NEWLANDS PAVILION

LOCATION:
KING ST EAST, KINGSTON ONTARIO

FOR:
CITY OF KINGSTON

DRAWING:
DETAILS

DWG. BY:			SCALE	DRAWING No.
DEPT.	CK'D BY	DATE	AS NOTED	A3
DES.				
W.D.			DATE JULY 2010	
SPEC.				
PROJECT No. 2010-31				2010-31 – A3