

BUILDING KEY

- 1 - COTTAGE
- 2 - BLOCKHOUSE
- 3 - BLOCKHOUSE
- 4 - BLOCKHOUSE
- 5 - GUARDHOUSE
- 6 - OFFICERS' QUARTERS
- 7 - OFFICERS' KITCHEN
- 8 - POWDER MAGAZINE
- 9 - MODERN KITCHEN

LEGEND

- ILLUMINATED BUILDING FACE
- TASK FLOOD LIGHTING
- ILLUMINATED PATH
- BUS PARKING ILLUMINATION

LIGHTING DESIGN

**FLEISHER
RIDOUT
PARTNERSHIP
INC.**
landscape architects

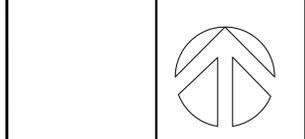
1 Atlantic Avenue, Suite 207
Toronto, Ontario, M5K 3E7
ph: 416) 533-4990
fax: 416) 533-6884
info@frpinc.ca

ELECTRICAL DESIGN

Kavski LTD.
ENGINEERING

TEL: 647 221-4902 *WEB: KAVSKI.COM
45 SHEPPARD AVE. EAST SUITE 400 NORTH YORK ON

2	APRIL 27, 2015	FOR TENDER
ISSUE	DATE	REMARKS



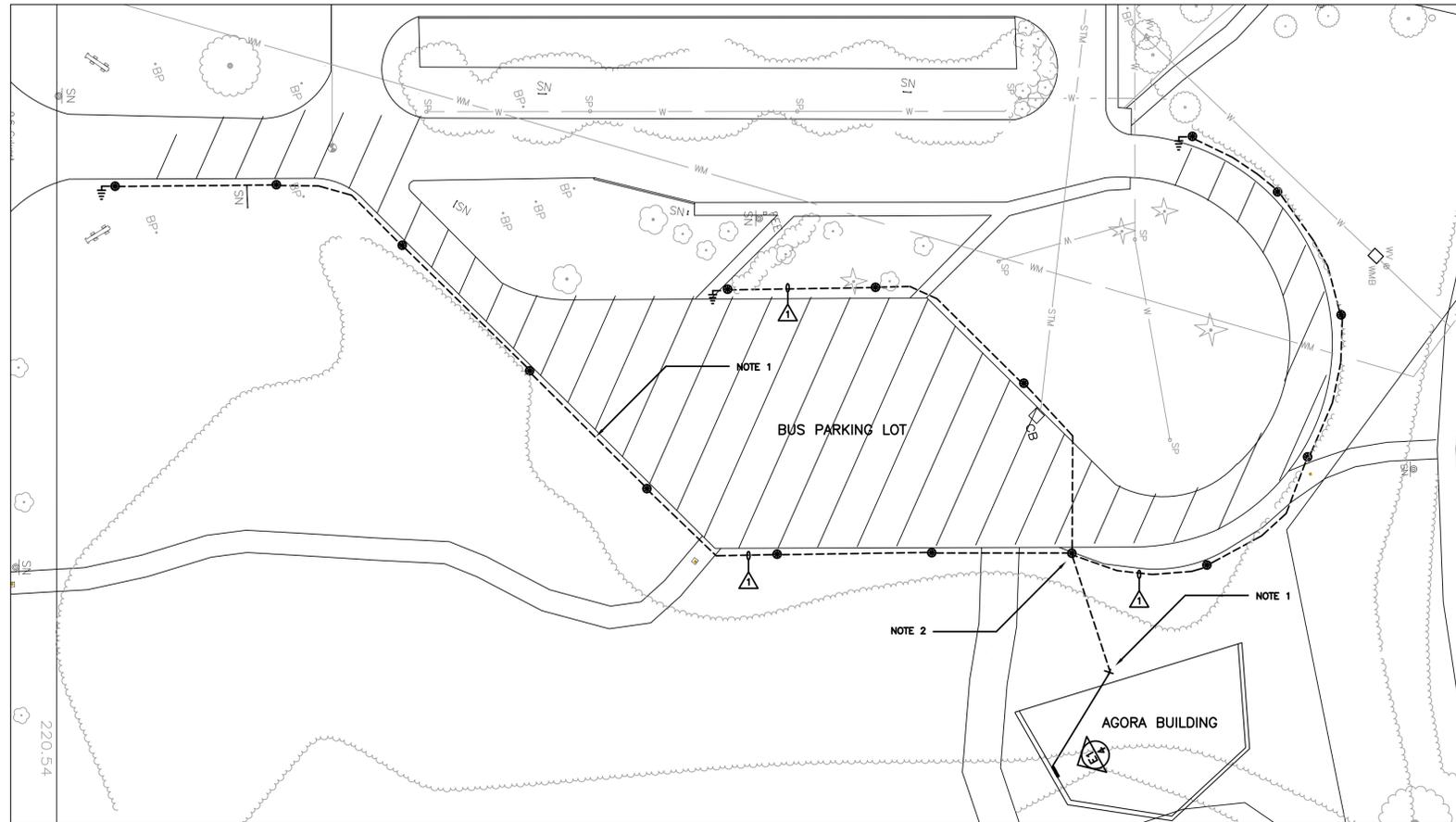
Project Name:
FORT GEORGE
Niagara-on-the-Lake, Ontario

Drawing Title:
GENERAL
ILLUMINATION PLAN

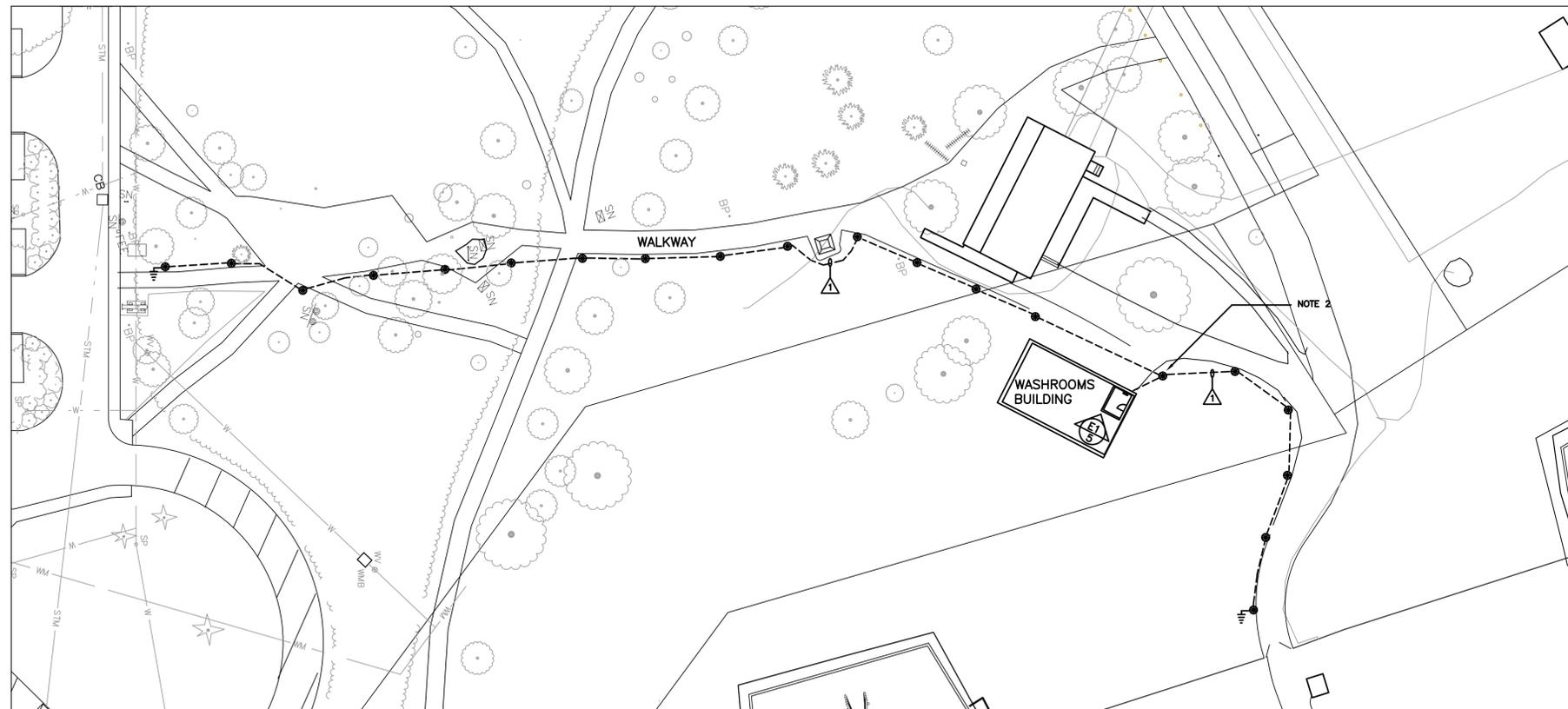
Drawn: TT	Design: TR	Date:
Checked: TR	Apprvd: TR	Scale: 1:1000
CADD File: 141324	Dwg. No.: L.1	

PROJECT NOTES:

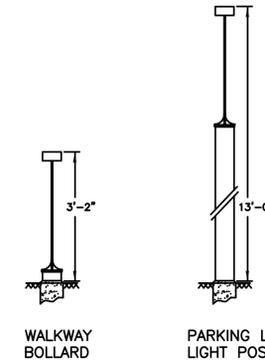
- REFER TO SEPARATE WRITTEN SPECIFICATIONS FOR THE COMPLETE DESCRIPTION OF THE WORK.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LOCATIONS ONLY. SITE MEASURE ALL DIMENSIONS AND BE RESPONSIBLE FOR PROPER FIT OF ALL NEW WORK.
- VISIT THE SITE AND ESTABLISH THE EXISTING CONDITIONS PRIOR TO SUBMITTING THE TENDER.
- COMPLY WITH THE ONTARIO ELECTRICAL SAFETY CODE, BUILDING CODE, SAFETY ACT AND ALL CODES AND BYLAWS HAVING JURISDICTION.
- PROVIDE ALL NECESSARY EQUIPMENT, ANCILLARIES, LABOUR, WARRANTIES, CERTIFICATIONS AND LICENSES, REGARDLESS IF SPECIFICALLY LISTED, AS REQUIRED FOR A COMPLETE WORKING SYSTEM.
- IN CASE OF CONFLICT AMONG RECORDS, REGULATIONS, CODES, DRAWINGS AND SPECIFICATIONS, FOLLOW THE MOST STRINGENT REQUIREMENTS.
- SUBMIT CATALOG CUTS AND SHOP DRAWING TO THE CONSULTANT FOR APPROVAL PRIOR TO PLACING ORDERS.
- REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PLACING ORDERS AND PROCEEDING WITH CONSTRUCTION.
- LOCATE UNDERGROUND PIPES, CABLES AND PLANT PRIOR TO MAKING EXCAVATIONS.
- INSTALL NEW EQUIPMENT IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- REPAIR ANY FLOORS AND WALLS AFFECTED BY DEMOLITION AND NEW CONSTRUCTION.
- BE RESPONSIBLE FOR REPAIRING AND MAKING GOOD ANY DAMAGE AT NO EXTRA CHARGE.
- ARRANGE AND PAY FOR INSPECTION OF FINISHED WORK BY ESA AND FURNISH CERTIFICATES TO THE OWNER.
- RECORD ACTUAL INSTALLATION ON A SET OF AS-BUILT DRAWINGS AND RETURN TO THE OWNER UPON COMPLETION OF THE WORK.
- PROVIDE THE OWNER WITH 12-MONTH WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP. DURING THAT TIME REPAIR AND/OR REPLACE ALL DEFECTS AT NO ADDITIONAL COST.



E1
1 PARKING LOT LIGHTING
ELECTRICAL SITE PLAN



E1
2 WALKWAY LIGHTING
ELECTRICAL SITE PLAN



E1
3 LIGHTING STANDARDS
ELEVATION

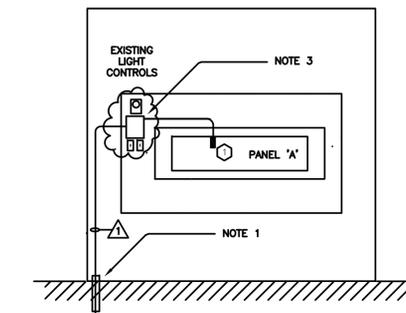
- LEGEND**
- LIGHTING CABLE IN TRENCH
 - LIGHTING CABLE IN SPARE DUCT
 - ⊙ LIGHTING STANDARD. SEE DRAWING E4 FOR SPECIFICATIONS
 - ⊕ GROUNDING ELECTRODE 3M LONG 19MM DIA. COPPER CLAD STEEL

- NOTES**
- LOCATE END OF SPARE U/G DUCT AND REUSE FOR NEW WIRING.
 - PROVIDE EXTRA DUCT IN THE CONCRETE BASE FOR THE INCOMING CABLE.
 - CONNECT TO SPARE CONTACTS.
 - CONNECT TO CONTACTOR COIL.

- EQUIPMENT SCHEDULE**
- ⊙ CIRCUIT BREAKER. 15A, 120V, 1P TO FIT PANEL
 - ⊕ LIGHTING CONTACTOR. SEE DRAWING E3
 - ⊕ LIGHTING TIMER. SEE DRAWING E3
 - ⊕ BYPASS SWITCH. SEE DRAWING E3

- CABLE SCHEDULE**
- ⊕ 2 x AWG10 RWU CU + GROUND WIRE IN 37MM PVC DUCT TYPE DBIL.

- GENERAL NOTES**
- DO UNDERGROUND LOCATES AND EXCAVATE BY HAND IN PROXIMITY OF CABLES AND PIPES.
 - SCALE SHOWN IS APPROXIMATE ONLY. DO NOT SCALE DRAWINGS.
 - LOCATION OF LIGHT STANDARDS IS APPROXIMATE ONLY. MARK PROPOSED LOCATIONS BY WOODEN STAKES AND OBTAIN APPROVAL OF THE LIGHTING DESIGNER PRIOR TO PROCEEDING WITH THE WORK.



E1
4 ELECTRICAL CLOSET
AGORA BUILDING

ELECTRICAL DESIGN

Kavski LTD. ENGINEERING

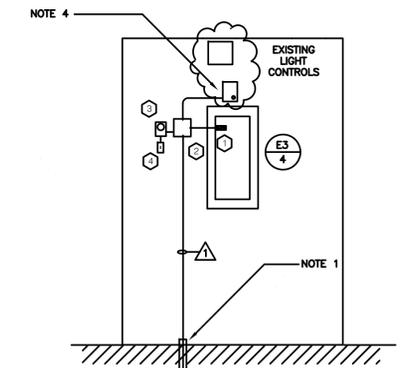
TEL: 447 722-4902 FAX: KAVSKICOM
45 SHEPPARD AVE EAST SUITE 401 NORTH YORK ON

LIGHTING DESIGN

FLEISHER RIDOUT PARTNERSHIP INC.
landscape architects

1 Atlantic Avenue, Suite 207
Toronto, Ontario, M6K 3E7
ph (416) 533-4990
fax (416) 533-6884
info@rpinco.ca

2	APRIL 27, 2015	FOR TENDER
1	APRIL 18, 2015	80% REVIEW
ISSUE	DATE	REMARKS

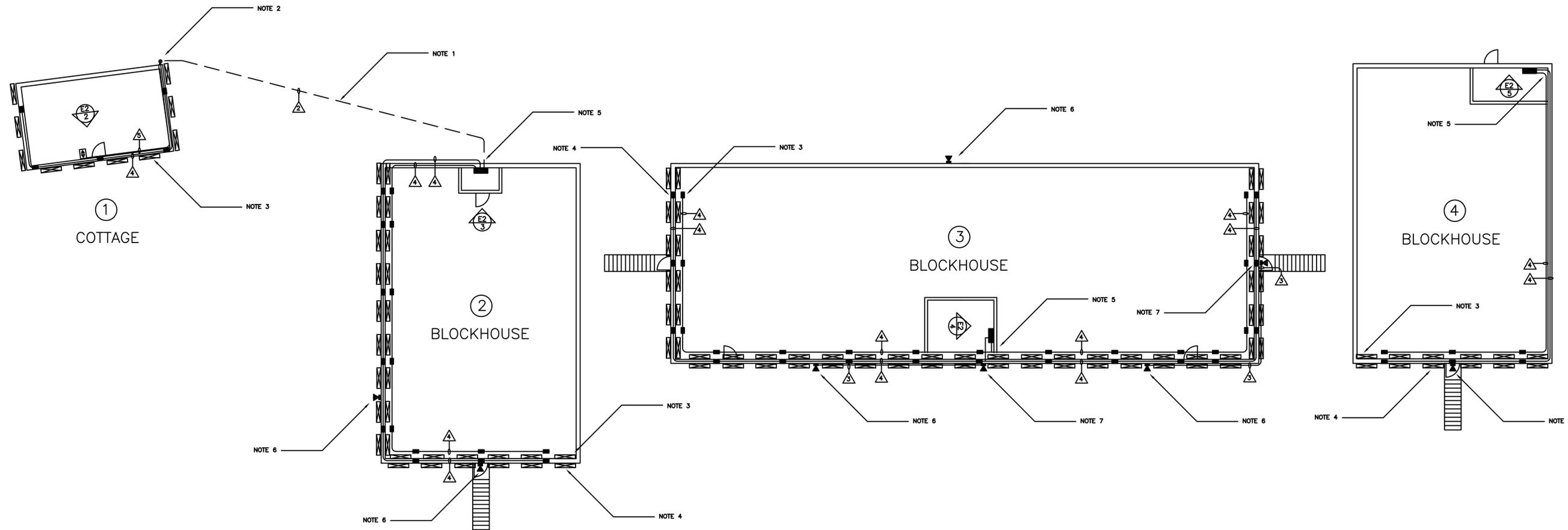


E1
5 ELECTRICAL ROOM
WASHROOMS BUILDING

Project Name:
FORT GEORGE
Niagara-on-the-Lake, Ontario

Drawing Title:
SITE WIRING

Drawn: SK	Design: HB	Date: APRIL 27 2015
Checked: JL	Approved: AK	Scale: N.T.S.
CADD File: 14066	Dwg. No.:	E1



- LEGEND**
- LIGHTING CABLE IN TRENCH
 - WIRING IN SURFACE MOUNT CONDUIT
 - ▬ OUTDOOR LED STRIP LIGHT. SEE DRAWING E3 FOR SPECIFICATIONS
 - LED STRIP LIGHT DRIVER IN NEMA 3 BOX. SEE DRAWING E3 FOR SPECIFICATIONS
 - ⊕ LED STRIP LIGHT DIMMER. SEE DRAWING E3 FOR SPECIFICATIONS
 - ▲ LED OUTDOOR FLOODLIGHT. SEE DRAWING E3 FOR SPECIFICATIONS

- NOTES**
1. DO UNDERGROUND LOCATES AND EXCAVATE BY HAND IN PROXIMITY OF CABLES AND PIPES.
 2. BRING THE DUCT UP ON THE OUTSIDE WALL AND SECURE TO THE BUILDING.
 3. MOUNT STRIP LIGHTS, DRIVERS AND CONDUIT ON OUTSIDE WALL BELOW ROOF. COORDINATE THE EXACT LOCATION WITH THE LIGHTING DESIGNER.
 4. MOUNT SECOND ROW OF STRIP LIGHTS, DRIVERS AND CONDUIT ON OUTSIDE WALL BELOW THE RAFTERS. COORDINATE THE EXACT LOCATION WITH THE LIGHTING DESIGNER.
 5. DRILL AND WATER SEAL THE OUTSIDE WALL PENETRATION.
 6. REMOVE FLOODLIGHT AND TURN OVER TO STAFF. REPLACE WITH LED FIXTURE. COORDINATE THE AIM WITH THE LIGHTING DESIGNER.
 7. ADD LED FLOODLIGHT FIXTURE. EXTEND CONDUIT AND CONNECT TO EXISTING. COORDINATE THE LOCATION AND AIM WITH THE LIGHTING DESIGNER.

- EQUIPMENT SCHEDULE**
- ⊕ CIRCUIT BREAKER, 15A, 120V, 1P TO FIT PANEL

- CABLE SCHEDULE**
- ▲ 2 x AWG12 RWU CU + GROUND WIRE IN 25MM PVC DUCT TYPE DGBI
 - ▲ 2 x AWG14 RWU CU + GROUND WIRE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS
 - ▲ 2 x AWG14 RWU CU + GROUND WIRE AND DIMMER CABLE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS
 - ▲ LOW VOLTAGE DIMMER CABLE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS.

ELECTRICAL DESIGN

TEL: 647 722-4962 • WEB: KAVSKILTD.COM
45 SHEPPARD AVE EAST SUITE 500 NORTH YORK ON

E2
1 BUILDINGS 1, 2, 3 & 4
ELECTRICAL PLAN

LIGHTING DESIGN

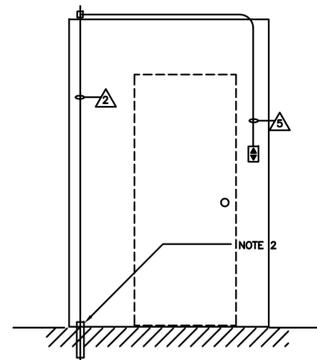
landscape architects
1 Atlantic Avenue, Suite 207
Toronto, Ontario, M5R 3E7
ph (416) 533-6880
fax (416) 533-6884
info@rpic.ca

2	APRIL 27, 2015	FOR TENDER
1	APRIL 17, 2015	50% REVIEW
ISSUE	DATE	REMARKS

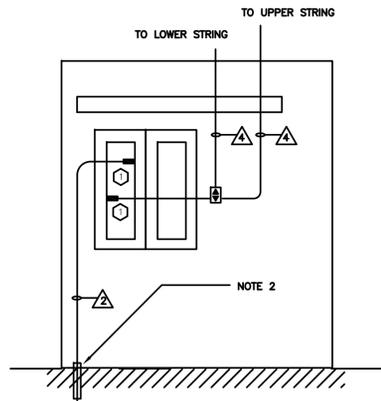
Project Name: **FORT GEORGE**
Niagara-on-the-Lake, Ontario

Drawing Title: **BUILDINGS WIRING 1**

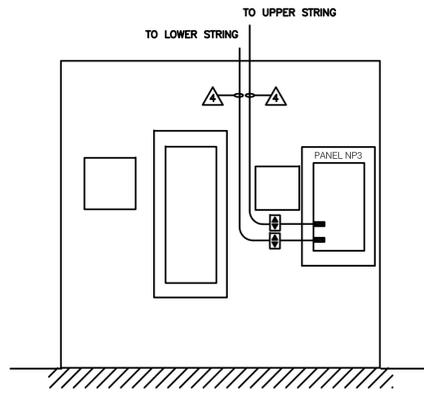
Drawn: SK	Design: HB	Date: APRIL 27 2015
Checked: IL	Approved: AK	Scale: N.T.S.
CADD File: 14066		Dwg. No.: E2



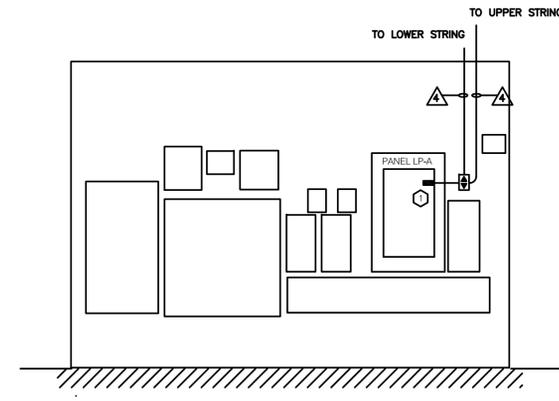
E2
2 EL. CONNECTION BLDG 1
DIAGRAM



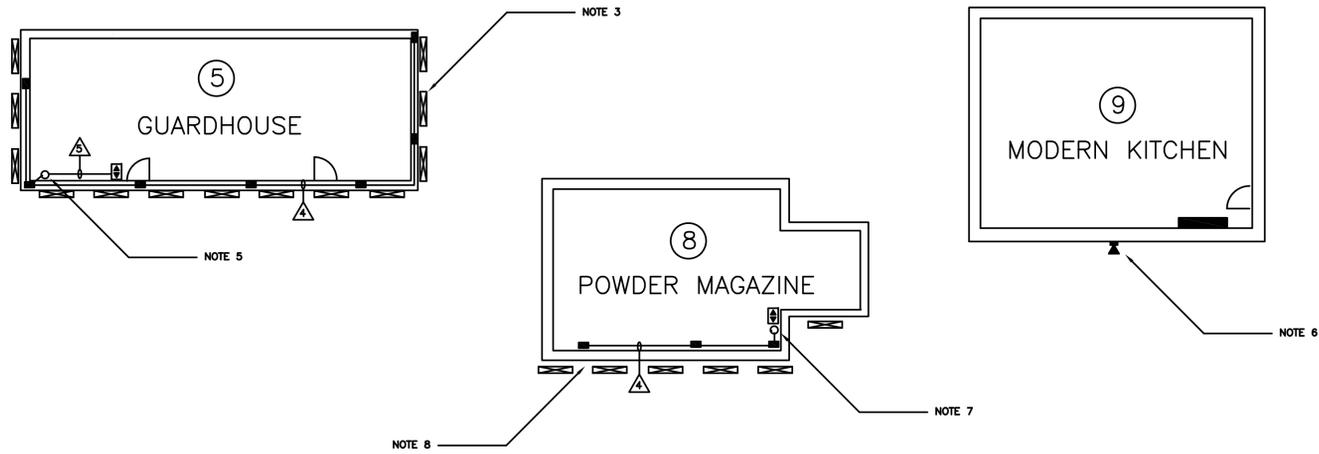
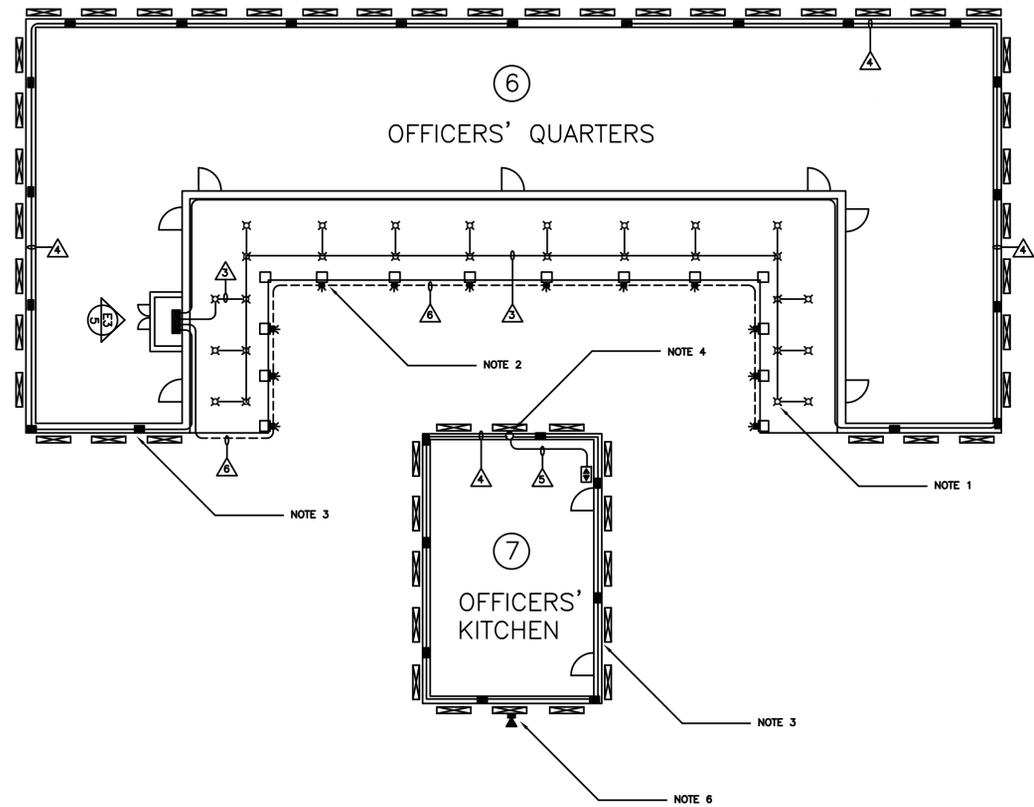
E2
3 EL. ROOM BLDG 2
DIAGRAM



E2
4 EL. ROOM BLDG 3
DIAGRAM



E2
5 EL. ROOM BLDG 4
DIAGRAM



E3 BUILDINGS 5-9
1 ELECTRICAL PLAN

- LEGEND**
- LIGHTING CABLE IN TRENCH
 - WIRING IN SURFACE MOUNT CONDUIT
 - ▬ OUTDOOR LED STRIP LIGHT. SEE SPECIFICATION THIS DRAWING
 - LED STRIP LIGHT DRIVER IN NEMA 3 BOX. SEE SPECIFICATION THIS DRAWING
 - ⊞ LED STRIP LIGHT DIMMER. SEE SPECIFICATION THIS DRAWING
 - ▲ LED OUTDOOR FLOODLIGHT. SEE SPECIFICATION THIS DRAWING

- NOTES**
1. MOUNT LED SPOTLIGHTS UNDER ROOF CANOPY. COORDINATE LOCATION WITH LIGHTING DESIGNER.
 2. MOUNT LED WALL LIGHTS ON CANOPY POSTS. COORDINATE LOCATION WITH LIGHTING DESIGNER.
 3. MOUNT STRIP LIGHTS, DRIVERS AND CONDUIT ON OUTSIDE WALL BELOW ROOF. COORDINATE THE EXACT LOCATION WITH THE LIGHTING DESIGNER.
 4. REMOVE FLOODLIGHT AND TURN OVER TO STAFF. REUSE CIRCUIT FOR NEW LED LIGHTING. ADD EMT CONDUIT WITH DIMMER WIRE AND WEATHER-SEAL THE CONDUIT WALL PENETRATION.
 5. REPURPOSE CEILING RECEPTACLE FOR LED LIGHTING. ADD EMT WITH DIMMER WIRE. DRILL AND WEATHER-SEAL THE CONDUIT WALL PENETRATION.
 6. REMOVE FLOODLIGHT AND TURN OVER TO STAFF. REPLACE WITH LED FIXTURE. COORDINATE THE AIM WITH THE LIGHTING DESIGNER.
 7. ADD LED LIGHTING TO EXISTING LIGHT CIRCUIT. ADD EMT WITH DIMMER WIRE. MOUNT DRIVERS ON INSIDE WOODEN RACK.
 8. BRING OUT CIRCUITS UNDER ROOF AND WEATHER SEAL THE WALL CONDUIT PENETRATION. COORDINATE LOCATION OF STRIP LIGHTS WITH THE LIGHTING DESIGNER.

- EQUIPMENT SCHEDULE**
- ⊞ CIRCUIT BREAKER, 15A, 120V, 1P TO FIT PANEL

- CABLE SCHEDULE**
- ⚠ 2 x AWG14 RWU CU + GROUND WIRE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS.
 - ⚠ 2 x AWG14 RWU CU + GROUND WIRE AND DIMMER CABLE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS
 - ⚠ LOW VOLTAGE DIMMER CABLE IN 13MM ALUMINUM EMT WITH COMPRESSION FITTINGS.
 - ⚠ 2 x AWG16 RWU CU + GROUND WIRE IN 25MM PVC DUCT TYPE DBIL.

ELECTRICAL DESIGN

TEL: 647 722 4902 • WEB: KAVSKI.COM
45 SHEPPARD AVE EAST SUITE 500 NORTH YORK ON

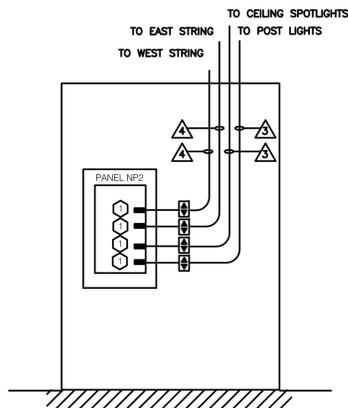
LIGHTING DESIGN

landscape architects
1 Atlantic Avenue, Suite 207
Toronto, Ontario, M5S 3E7
ph (416) 533-6980
fax (416) 533-6984
info@fripinc.ca

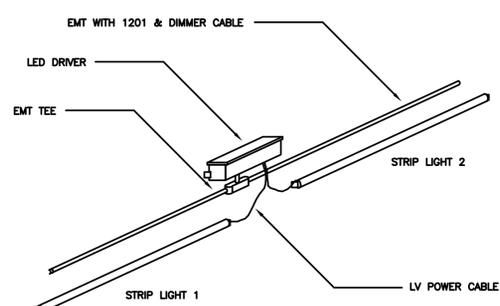
2	APRIL 27, 2015	FOR TENDER
1	APRIL 17, 2015	BOOK REVIEW
ISSUE	DATE	REMARKS

Project Name:		
FORT GEORGE Niagara-on-the-Lake, Ontario		
Drawing Title:		
WIRING AND DETAILS		

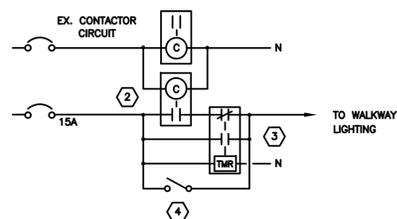
Drawn:	Design:	Date:
SK	HB	APRIL 27 2015
Checked:	Apprvd:	Scale:
IL	AK	N.T.S.
CADD File:	Dwg. No.:	
14066	E3	



E3 EL. ROOM BLDG 6
2 DIAGRAM

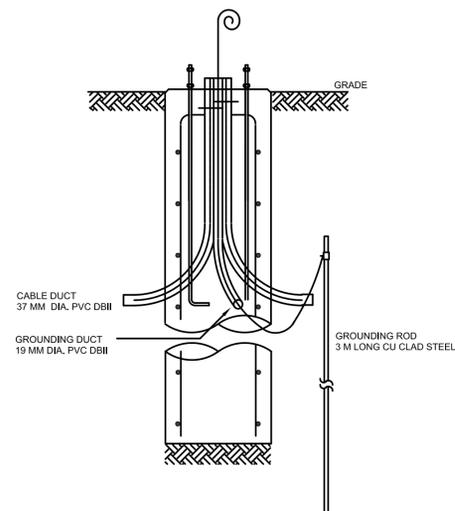


E3 STRIP LIGHTS
3 MOUNTING DETAIL

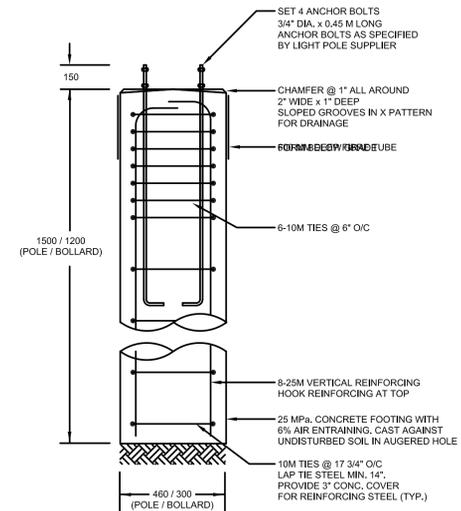


- 2 LIGHTING CONTACTOR: 4P, 15A, 120V CONTACTS & COIL. IN NEMA1 BOX
- 3 365-DAY ELECTRONIC TIMER, 120V SUPPLY, 15A/120V CONTACT, LONG LIFE BATTERY, NO ENCLOSURE. EQUAL TO PARAGON EC71D-185-120
- 4 TIMER BYPASS SWITCH: 15A, 120V, TOGGLE LIGHTING SWITCH C/W CAST AL BOX AND COVER PLATE

E3 LIGHT CONTROLS
4 DUCTS AND GROUND



E3 LIGHT STANDARD
5 DUCTS AND GROUND



E3 LIGHT STANDARD
6 CONCRETE BASE

Solera SRB8-T

CONSTRUCTION: EXTRUDED ALUMINUM (6061-T6 ALLOY) WITH LOW COPPER CONTENT. SILICONE SEALED LENS FOR FULL WEATHERPROOF PROTECTION AND STAINLESS STEEL EXTERNAL HARDWARE. "CONSULT SOLERA FOR CUSTOM HEIGHT OPTIONS"

LISTING: COMPLIES WITH CSA UR 1358 WITH APPROPRIATE LABEL FOR OUTDOOR LOCATION

LAMPING: 30W CREE GE LED (HIGH POWER CREE LED WITH 50,000HRS RATED LAMP LIFE @ 70% LUMEN MAINTENANCE, 100W-4000K WHITE, 3500K (STANDARD))

ANCHORING INFO: 1/2" ØØ Flange, 1/2" BOLT PROJECTION, 1/2" BOLT SIZE: 1/4" X 1/4" X 1/2"

CONSTRUCTION: EXTRUDED ALUMINUM (6061-T6 ALLOY) WITH LOW COPPER CONTENT. SILICONE SEALED LENS FOR FULL WEATHERPROOF PROTECTION AND STAINLESS STEEL EXTERNAL HARDWARE. "CONSULT SOLERA FOR CUSTOM HEIGHT OPTIONS"

LISTING: COMPLIES WITH CSA UR 1358 WITH APPROPRIATE LABEL FOR OUTDOOR LOCATION

LAMPING: 30W CREE GE LED (HIGH POWER CREE LED WITH 50,000HRS RATED LAMP LIFE @ 70% LUMEN MAINTENANCE, 100W-4000K WHITE, 3500K (STANDARD))

ANCHORING INFO: 1/2" ØØ Flange, 1/2" BOLT PROJECTION, 1/2" BOLT SIZE: 1/4" X 1/4" X 1/2"

CONSTRUCTION: EXTRUDED ALUMINUM (6061-T6 ALLOY) WITH LOW COPPER CONTENT. SILICONE SEALED LENS FOR FULL WEATHERPROOF PROTECTION AND STAINLESS STEEL EXTERNAL HARDWARE. "CONSULT SOLERA FOR CUSTOM HEIGHT OPTIONS"

LISTING: COMPLIES WITH CSA UR 1358 WITH APPROPRIATE LABEL FOR OUTDOOR LOCATION

LAMPING: 30W CREE GE LED (HIGH POWER CREE LED WITH 50,000HRS RATED LAMP LIFE @ 70% LUMEN MAINTENANCE, 100W-4000K WHITE, 3500K (STANDARD))

ANCHORING INFO: 1/2" ØØ Flange, 1/2" BOLT PROJECTION, 1/2" BOLT SIZE: 1/4" X 1/4" X 1/2"

E4
1 LIGHTING STANDARDS SPECIFICATION

Gen3™ Miniwasher LED Linear Luminaire

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

E4
2 BUILDING STRIP LIGHTS SPECIFICATION

Gen3™ Miniwasher LED Linear Luminaire

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

Take full advantage of versatility.

The Gen3™ LED Miniwasher from i2Systems offers high technology and high performance in an incredibly versatile format.

- ### SPECIFICATIONS
- POLE LIGHT & BOLLARD, LED 30W, 120V AC SUPPLY, INTERNAL LED DRIVER, POLE LIGHT DISTRIBUTION TYPE T4FT, BOLLARD TYPE T4W, 50,000 LIFE SPAN HOURS AT 70% LUMEN DEPRECIATION, 3500K WARM WHITE LIGHT, POWDER COATED BLACK FINISH WITH STAINLESS STEEL HARDWARE, APPROVED EQUAL TO SOLERA SRB8-T-E-TP-BL.
 - STRIP LIGHTS, LOW PROFILE LED TUBE, 32W, 1.2M LONG, 3500K WARM WHITE LIGHT, 30 DEGREE BEAM ANGLE, NEMA3 OUTDOOR RATED, ALUMINUM CLEAR ANODIZED FINISH, APPROVED EQUAL TO GEN3 MINIWASHER V3285-A-3-CBC, WITH MOUNTING HARDWARE AND VLA-14 ADJUSTABLE BRACKETS.
 - LED DRIVER, MATCHING THE STRIP LIGHT, 75W, 120V AC SUPPLY, NEMA3 OUTDOOR RATED, ONE DRIVER PER EACH TWO STRIP LIGHTS, POWDER COATED WHITE FINISH, COMPLETE WITH MOUNTING HARDWARE AND DIMMER CABLES, APPROVED EQUAL TO GEN3 MODEL V3285 EOP6W.
 - LED DIMMER, MATCHING THE STRIP LIGHT DRIVER, 120V AC SUPPLY, PUSH-BUTTON INCREMENTAL DIMMING FUNCTION, IN CAST ALUMINUM BOX WITH DECORATIVE COVER PLATE, POWDER COATED WHITE FINISH, APPROVED EQUAL TO GEN3 LIGHTLINK LL-205, LED FLOODLIGHT, 75W, 120V AC SUPPLY, INTERNAL LED DRIVER, 50,000 HOURS LIFE SPAN AT 70% LUMEN DEPRECIATION, PREFERABLY 3500K WARM WHITE LIGHT, WIDE BEAM LIGHT DISTRIBUTION, NEMA3 OUTDOOR RATED, POWDER COATED FINISH GLOSSY GRAY OR PEWTER TO BE SELECTED FROM COLOUR SAMPLE, COMPLETE WITH TILT & SWIVEL HARDWARE, APPROVED EQUAL TO VISTA MODEL 1059-W-WF-35-G-MV-ND-HS.
 - POST LIGHT, WALL-MOUNT STARLIGHT TYPE, LED 4W, 12V DC SUPPLY, NEMA3 CAST ALUMINUM OUTDOOR CONSTRUCTION, PREFERABLY 3500K WARM WHITE LIGHT, OR 3000K, COMPLETE WITH MOUNTING HARDWARE AND INDOOR DIMMING DRIVER 75W, 120V AC SUPPLY, APPROVED EQUAL TO LINEA LIGHT MODEL TAPE 9222W70.
 - CEILING SPOT LIGHT, SURFACE MOUNT ARCHITECTURAL LIGHT, WALK-OVER TYPE, 2W, 12V DC INPUT, 3500K WARM WHITE LIGHT, MIN. 210 LUMEN, 30 DEGREE LIGHT BEAM, NEMA3 OUTDOOR RATED, POWDER COATED FINISH WHITE, COMPLETE WITH MOUNTING HARDWARE AND INDOOR DIMMING DRIVER 75W, 120V AC SUPPLY, APPROVED EQUAL TO VISTOR-VALTUR MODEL VV-30.

- ### GENERAL NOTES
- SUPPLY DIMMABLE SYSTEMS AS MATCHING SETS, OR WITH MANUFACTURER'S CERTIFICATE OF COMPONENTS COMPATIBILITY BETWEEN THE LIGHTS, DRIVERS AND DIMMERS.
 - SUBMIT SHOP DRAWINGS WITH PROPOSED INSTALLATION HARDWARE AND METHODS FOR APPROVAL OF THE LIGHTING DESIGNER PRIOR TO COMMENCING WORK AND PLACING ORDERS.
 - RESPONSIBILITY FOR MOUNTING METHODS REMAINS WITH THE CONTRACTOR, AS MUCH AS POSSIBLE AVOID WALL DRILLING AND INTERFERENCE WITH THE BUILDING HISTORIC CHARACTER.
 - OBTAIN APPROVAL OF THE LIGHTING DESIGNER OF THE EXPOSED CONDUIT ROUTES AND WALL DRILLING. WEATHER-SEAL ALL OUTSIDE WALL PENETRATIONS.
 - USE WHITE, SILVER OR LIGHT GRAY OUTDOOR HARDWARE AND USE TOUCH-UP PAINT TO MATCH THE EXISTING BUILDING FINISH.

ELECTRICAL DESIGN

Kavski LTD. ENGINEERING

TEL: 647 722 4902 • WEB: KAVSKI.COM
45 SHEPPARD AVE EAST SUITE 500 NORTH YORK ON

LIGHTING DESIGN

FLEISHER RIDOUT PARTNERSHIP INC.
landscape architects

1 Atlantic Avenue, Suite 207
Toronto, Ontario, M5S 3E7
ph (416) 533-6880
fax (416) 533-6884
info@frpinc.ca

ISSUE	DATE	REMARKS
2	APRIL 27, 2015	FOR TENDER
1	APRIL 17, 2015	BOOK REVIEW

Project Name:
FORT GEORGE
Niagara-on-the-Lake, Ontario

Drawing Title:
LED SPECIFICATIONS

Drawn: SK	Design: HB	Date: APRIL 27 2015
Checked: IL	Approved: AK	Scale: N.T.S.
CADD File: 14066 R2A		Dwg. No.: E4

Gen3 Installation Guide

Power Boxes for the Gen3 (Use One Type)

Depending where you will install the Fixture and how it was specified during the ordering process, you will find one of the following Power Boxes in your product package.

Indoor Power Box PS24V75W-EOSP
120V-277V AC Input
Powers up to 10 Feet of Gen3

Outdoor Power Box PS24V75W-EOSPW
120V-277V AC Input
Powers up to 30 Feet of Gen3

Dimming Components for the Gen3 (Optional)

LightLink LL-205-10V
Use as a stand-alone Dimmer or as a bridge to a 0 to 10V Dimming Input (ask or search 100-277V AC input.

Dimming Cable (Optional)

- Indoor: 685-01561-100
- Outdoor: 685-02026-100

For dimming installations, i2Systems provides both indoor and outdoor rated Dimming Cable for your wiring convenience. Use the Dimming Cable to connect the LightLink LL-205 Dimmer to Power Boxes and to "daisy-chain" Power Boxes together. The cable is available in 100-foot spools.

i2Systems | 1405 Sycamore Avenue, Sunnyvale, CA 95051 | 408.247.9999 | 408.247.9978 (toll free) | www.i2systems.com

E4
3/4 LED DRIVER & DIMMER SPECIFICATION

VISTA PROFESSIONAL OUTDOOR LIGHTING

SPECIFICATION SHEET

Type: Model: 1059-xx-NS-3K-G-MV-xx-HS Project: Fort George

MODEL 1059 Architectural Series • Up & Accent

FEATURE SPECIFICATIONS:

DOOR: Die-cast, low copper content, A160 aluminum offers maximum corrosion protection. Capless stainless steel fasteners affixed to a minimalist-cleated door. Door is designed to shed water from the lens surface.

HOUSING: Die-cast A160 aluminum. Optic and driver compartment separately sealed when being identically connected. Housing pinning achieved via a heavy aluminum yoke strap and bolted in position with stainless steel lock washers and nuts. Lending fasteners are covered with decorative die-cast aluminum end caps.

FINISH: Durable powder coat finish available in Glossy Gray, Black, Architectural Bronze, Dark Bronze, Pearl, Pewter, Architectural Brick, Granite, Terracotta, Rust, Hunter Green, Mocha, Weathered Bronze, Weathered Iron, and White. Custom Powder Coat finishes available on request.

POWER: Die-cast 3/8" ØØ CBIØ driver at 1050mA, 1170mA, 1000mA, or 1750mA.

COLOR TEMPERATURE: LEDs are available in 3000K, 3500K, 4000K, or 5000K CCT AND/ or white Light Cree® EpiWhite™ lens.

LIGHT DISTRIBUTION: Very Narrow Spot VNS (NEMA 2x2), Narrow Spot NS (NEMA 2x2), Medium Flood MP (NEMA 3x3), and Wide Flood WF (NEMA 4x4).

REFLECTOR: High purity anodized specular or semi-specular aluminum optic designed for maximum performance and uniformity. Very Narrow Spot VNS optic incorporates an internal source shield to eliminate unwanted glare outside the lensed pattern.

DIMENSIONS:

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of its fixtures shown without further notification.

1405 Sycamore Avenue, Sunnyvale, CA 95051 | 408.247.9999 | 408.247.9978 (toll free) | www.vistalighting.com

E4
5 LED FLOOD LIGHT SPECIFICATION

Tape

TAPE Wall Light LED powerLED 4W 630mA 9222W70

Single emission wall light for outdoor application. The slim white LED light fixture with a 2" light distribution is approved if 2 powered LEDs with CCT of 3000K and a CRI of 80. The source luminaire flux is 414 lm, with a 1.24 mrad beam spread.

The slim anodized profile is 4 W, and is provided by a specific driver. The power supply cable is recessed and features a 1 m length. The device features protection class I and can be wall-mounted.

Technical data	
Brand	HL-ED
Type	Wall light
Installation position	Wall
Installation requirements	Outdoor
Type of source	LED
LED type	powerLED
Power	4 W
Light colour	Warm white
CCT	3000 K
CR	80 Ra
Luminous flux	414 lm
Optics	Spot
Current intensity	630 mA
AC/DC	DC
C.C.F./C.L.	CC
Finish (coating)	coated
Material	Aluminum
Color	white
Processing	coating
Cable type	1
IP	IP65
Show wire test	80°
Direct mounting on normally flammable surfaces	Yes
CE	Yes
Driver included	Yes
Dimmable	No
Emergency mode	No
Dimmable	No
Walk-over	No
Drive-over	No
Cable included	Yes
Cable length	1 m
Mounting	Yes
Height	84 mm
Depth	32 mm
Length	100 mm
Volume	0.20000 m³
Net weight	0.410 kg

HL-ED

E4
6 LED POST LIGHT SPECIFICATION

Architectural LED lights

70mm diameter LED lights used under roof overhang in building 6

Vistor - Valtur

Full aluminum or steel AS2016 with clear finish. Temperature insensitive non-glaring glass diffusion for optimized cable beam supplier with 3 meters of FEPEP 2x1.75 (30mm) insulated flat cable in black/neutral colour.

Vistor
1 LED 630 mA 2W POWER

E4
7 LED SPOT LIGHT SPECIFICATION