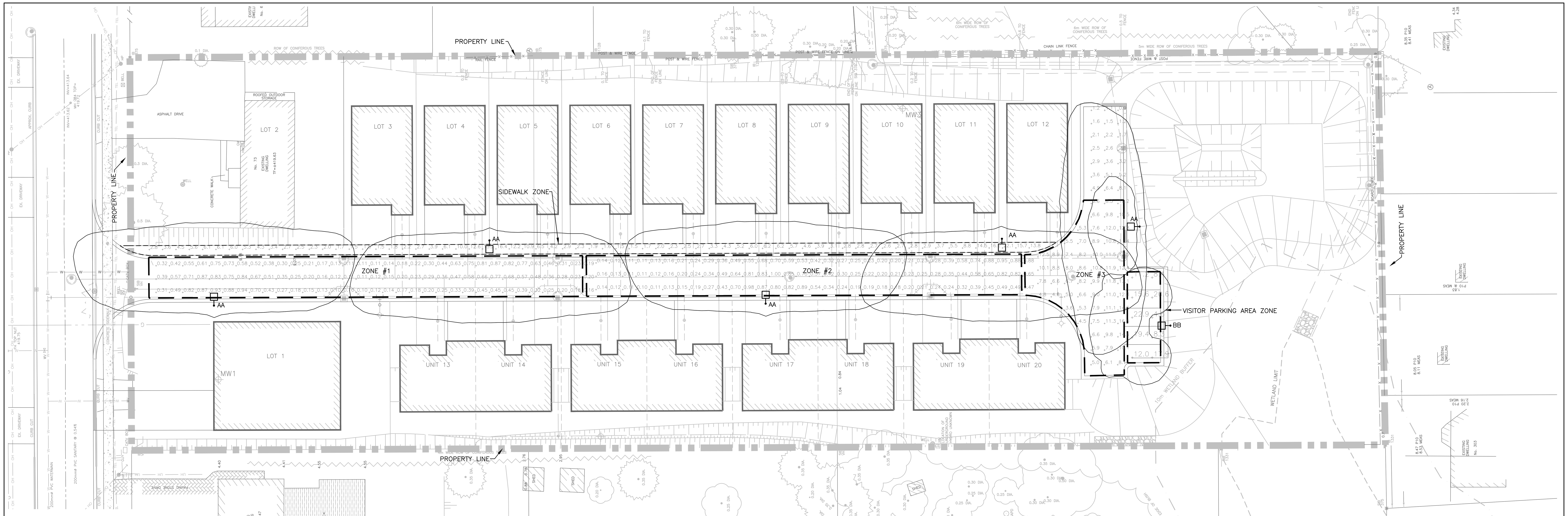


1/SL.1 STREET LIGHTING PLAN
1:300

STATISTICS					
MEASUREMENT	AVERAGE	MAXIMUM	MINIMUM	MAX:MIN	AVG:MIN
ROADWAY ZONE #1	.40 cd/m2	1.02 cd/m2	0.10 cd/m2	10.2:1	4.0:1
ROADWAY ZONE #2	.39 cd/m2	1.01 cd/m2	0.10 cd/m2	10.1:1	3.9:1
INTERSECTION – ZONE #3	9.9 LUX	17.0 LUX	3.4 LUX	5.0:1	2.9:1
VISITOR PARKING AREA	14.3 LUX	23.3 LUX	4.6 LUX	5.0:1	3.0:1
SIDEWALK HORIZONTAL CALCULATION ZONE	5.6 LUX	21.9 LUX	1.5 LUX	14.6:1	3.7:1
SIDEWALK VERTICAL CALCULATION ZONE	1.9 LUX	5.7 LUX	0.0 LUX	N/A	N/A

ELECTRICAL LEGEND	
[z]-•	POLE LIGHT FIXTURE (z = TYPE AS PER SCHEDULE)
(ellipse)	ISOFLUX LINES

SITE LIGHTING NOTES:

1. THIS DRAWING IS FOR FIXTURE LOCATIONS AND PHOTOMETRIC LAYOUT OF SITE LIGHTING ONLY. CONTACT ELECTRICAL CONSULTANT FOR BUILDING ELECTRICAL SITE PLAN TO CONFIRM LAYOUT OF CONDUIT ROUTING, CIRCUIT ARRANGEMENT, AND WIRE SIZING.
2. VOLTAGES OF FIXTURES ARE TO BE VERIFIED WITH THE ELECTRICAL SITE PLANS PRIOR TO ORDERING FIXTURES.
3. SUBSTITUTIONS OF LIGHT FIXTURES ARE NOT PERMITTED. IF THE CONTRACTOR SUBSTITUTES LIGHTING FIXTURES, THE CONTRACTOR SHALL CARRY ALL COSTS TO HAVE PHOTOMETRIC CALCULATIONS DONE BY THE OFFICE OF THE SITE LIGHTING CONSULTANT AND ALL COSTS ASSOCIATED WITH SITE PLAN RE-SUBMISSION TO THE CITY.
4. PHOTOMETRICS SHOWN CONSIDER ALL FACTORS AFFECTING LIGHT OUTPUT LEVELS SUCH AS LAMP AND BALLAST DEPRECIATION AND DIRT ACCUMULATION OVER AN ESTIMATED ONE-YEAR PERIOD.
5. PHOTOMETRIC VALUES ARE SHOWN IN LUX. A LIGHT LOSS FACTOR OF 0.81 WAS USED IN THE CALCULATION.
6. HOUSE SIDE SHIELDS ARE USED WHERE INDICATED IN LUMINAIRE SCHEDULE. NO ADDITIONAL SHIELDING IS PROVIDED.
7. ALL EXTERIOR LIGHTING MUST BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK (INTERMATIC CAT#ET2825CR OR EQUAL) TO ENSURE THAT IT IS NOT 'ON' DURING TIMES WHEN SUFFICIENT DAYLIGHT IS AVAILABLE.
8. THE SIDEWALK CALCULATIONS SHOWN ON PLAN ARE HORIZONTAL. NOT SHOWN ARE THE VERTICAL SIDEWALK CALCULATIONS. THE VERTICAL CALCULATIONS WERE BASED ON ANS/IES RP-8-25, CHAPTER 11, SECTION 11.7.5 PEDESTRIAN WALKWAYS AND FIGURE 11.8.

THE MEASUREMENT ILLUMINATION FOR STREETS IS BASED ON ANSI/IESNA RP-08-25 (ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA) THE RECOMMENDED PRACTICE FOR DESIGN AND MAINTENANCE OF ROADWAY AND PARKING FACILITY LIGHTING STANDARDS. CHAPTER 11.	ROAD CLASSIFICATION	PEDESTRIAN CLASSIFICATION	PAVEMENT CLASSIFICATION	HORIZONTAL ILLUMINATION (AVG) cd/m2	UNIFORMITY RATIO (AVG/MIN) cd/m2
PRIVATE ROAD, FERGUS, ONTARIO	LOCAL ROAD	LOW PEDESTRIAN CONFLICT	R2 & R3 PAVEMENT	0.3	6.0:1
				LUX	LUX
	PARTIAL INTERSECTION	LOW PEDESTRIAN CONFLICT	R2 & R3 PAVEMENT	4	6.0:1
	SIDEWALK HORIZONTAL	LOW PEDESTRIAN CONFLICT		2	10.0:1

LUMINAIRE SCHEDULE

TYPE	ACCEPTABLE MANUFACTURES	MODELS	CATALOGUE NUMBERS	DESCRIPTION WATTS/LUMENS VOLTAGE/KELVIN	LOCATION MOUNTING HEIGHT	NOTES
AA	KING LUMINAIRE	K601	K601D-S-PANL-111- 25(SSL) 7030-HSS/ARM: KA40-S-1 KPL20 PR7 SERIES	PENDANT 27.3W/2828L 120V/3000K	STREET POLE 6.3m	STRESSCRETE OCTAGONAL CLASS A- LIGHT DUTY POLE. POLE: E250-APO-G-25'. CONFIRM FINISH WITH OWNER PRIOR TO ORDERING FIXTURES.
BB	KING LUMINAIRE	K601	K601D-T-PANL-IV- 40(SSL) 7030/ARM: KA40-S-1 KPL20 PR7 SERIES	PENDANT 40.2W/4218L 120V/3000K	STREET POLE 6.3m	STRESSCRETE OCTAGONAL CLASS A- LIGHT DUTY POLE. POLE: E250-APO-G-25'. CONFIRM FINISH WITH OWNER PRIOR TO ORDERING FIXTURES.

No	REVISION	DATE
5	ISSUED FOR SITE PLAN APPROVAL	2026.04.21
4	ISSUED FOR APPROVAL	2026.04.13
3	ISSUED FOR SITE PLAN APPROVAL	2026.01.12
2	ISSUED FOR SITE PLAN APPROVAL	2025.07.31
1	ISSUED FOR REVIEW	2025.07.02

N E W
TRUE NORTH

LICENSED PROFESSIONAL ENGINEER
T. ALI
100084607
Apr 21, 2026
PROVINCE OF ONTARIO

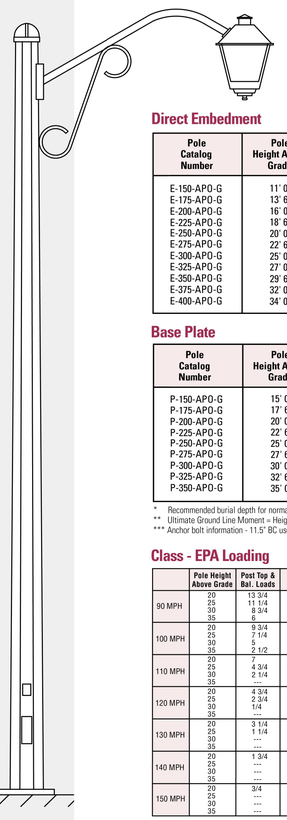
MIGHTON ENGINEERING
493 LANCASTER ST W, UNIT 204
KITCHENER, ON N2K 1L8
PH (519) 745-3703
WEB www.mighton.com

PROJECT TITLE:
PROPOSED
WELLINGTON DEVELOPMENT
73 & 79 SIDEROAD 19
FERGUS, ONTARIO

DRAWING TITLE:
STREET LIGHTING

DRAWN BY: B.E.	CUSTOMER PROJECT No. –
CHECKED BY: T.A.	MIGHTON PROJECT No. 45173
DATE: JULY 2025	DRAWING No. SL.1
SCALE 1:300	

Octagonal Class A - Light Duty Pole



Octagonal Class A - Light Duty Pole



Physical Details:

- Octagonal symmetrically tapered shaft.
- 5.375" flat to flat pole tip.
- 0.125" per linear ft. taper increase.
- 600 lb. transverse bending strength (2 ft. from tip).
- Mold finish is standard but optional etched or polished finish and Decor colors are available.
- For various luminaire mounting details, please reference arms and accessories.

Direct Embedment

Pole Catalog Number	Pole Height Above Grade	Assumed Embedment Depth*	Overall Pole Length	Pole Butt Flat to Flat (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
E-150-APO-G	11' 0"	4' 0"	15' 0"	7.25	5400	495
E-175-APO-G	13' 6"	4' 0"	17' 6"	7.56	6500	600
E-200-APO-G	16' 0"	4' 0"	20' 0"	7.88	8400	710
E-225-APO-G	18' 6"	4' 0"	22' 6"	8.19	9900	825
E-250-APO-G	20' 0"	5' 0"	25' 0"	8.50	10800	975
E-275-APO-G	22' 6"	5' 0"	27' 6"	8.81	12300	1110
E-300-APO-G	25' 0"	5' 0"	30' 0"	9.13	13800	1255
E-325-APO-G	27' 0"	5' 6"	32' 6"	9.44	15000	1400
E-350-APO-G	29' 6"	5' 6"	35' 0"	9.75	16500	1555
E-375-APO-G	32' 0"	5' 6"	37' 6"	10.06	18000	1735
E-400-APO-G	34' 0"	6' 0"	40' 0"	10.38	19200	1990

Base Plate

Pole Catalog Number	Pole Height Above Grade	Pole Butt Flat to Flat (Inches)	Base Plate Size (Inches)	Bolt Circle*** (Inches)	Ultimate Ground-Line Moment (ft. lbs.**)	Nominal Weight (lbs.)
P-150-APO-G	15' 0"	7.25	11.5 x 11.5	11.5	7800	538
P-175-APO-G	17' 6"	7.56	11.5 x 11.5	11.5	9300	640
P-200-APO-G	20' 0"	7.88	11.5 x 11.5	11.5	10800	750
P-225-APO-G	22' 6"	8.19	11.5 x 11.5	11.5	12300	870
P-250-APO-G	25' 0"	8.50	11.5 x 11.5	11.5	13800	1020
P-275-APO-G	27' 6"	8.81	11.5 x 11.5	11.5	15300	1155
P-300-APO-G	30' 0"	9.15	11.5 x 11.5	11.5	16800	1300
P-325-APO-G	32' 6"	9.44	14.5 x 14.5	17	18300	1480
P-350-APO-G	35' 0"	9.75	14.5 x 14.5	17	19800	1635

* Recommended burial depth for normal soils. Where large imbalanced loads are applied or soil strength is questionable, deeper burial may be necessary.
** Ultimate Ground Line Moment = Height above grade minus 2 ft x transverse bending strength.
*** Anchor bolt information - 11.5" BC uses 3/4" x 27" anchor bolts. 17" BC uses 1" x 36" anchor bolts.

Class - EPA Loading

	Pole Height Above Grade	Post Top & Bal. Loads	Imbalanced Loads 4' arm	6' arm	8' arm
90 MPH	20	13 3/4	12	10 3/4	9 1/4
	25	11 1/4	9 3/4	8	7 3/4
	30	8 3/4	7 1/2	6 3/4	5 3/4
	35	6	5	4 1/2	3 3/4
100 MPH	20	9 3/4	8 1/2	7 1/2	6 1/4
	25	7 1/4	6 1/2	5 3/4	4 3/4
	30	5	4	3 1/2	2 3/4
	35	2 1/2	1 3/4	1 1/4	1/2
110 MPH	20	7	5 3/4	5	4
	25	4 3/4	3 3/4	3 1/4	2 1/2
	30	2 1/4	1 1/2	1	1/2
	35	---	---	---	---
120 MPH	20	4 3/4	4	3 1/4	2 1/4
	25	2 3/4	1 3/4	1 3/4	3/4
	30	1/4	---	---	---
	35	---	---	---	---
130 MPH	20	3 1/4	2 1/4	1 3/4	1
	25	1 1/4	1/4	---	---
	30	---	---	---	---
	35	---	---	---	---
140 MPH	20	1 3/4	1 1/4	3/4	---
	25	---	---	---	---
	30	---	---	---	---
	35	---	---	---	---
150 MPH	20	3/4	1/4	---	---
	25	---	---	---	---
	30	---	---	---	---
	35	---	---	---	---

Decor Colors & Finishes

Color / Finish	Eclipse (Black)	Ash White	Pearl Gray	Dusty Rose	Aztec Jade (Green)	Desert Sand (Buff)	Saluki Bronze (Brown)
Etched Finish	E11	E35	E40	E41	E51	E70	E90
Polished	S11	S35	S40	S41	S51	S70	S90

Mold finish, catalog #M00, is standard on all poles. Decor colors and finishes must be specified. A clear acrylic coating is standard on all Decor poles.

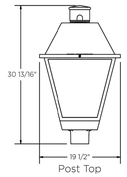
When selecting a pole strength class, care must be taken to ensure it will carry the desired EPA loading of arm and luminaire for the wind conditions at your location. If you are unsure of your location's wind condition, please reference Isotach Map in General and Technical section.

StressCrete

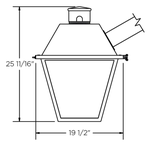
FIXTURE OPTIONS

K601D COACH LANTERN - LED

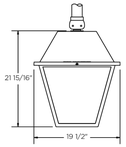
Fixture Formats



Post Top

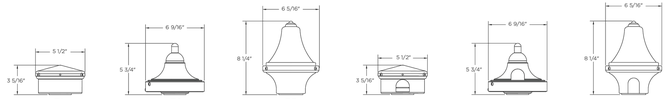


Side Mount

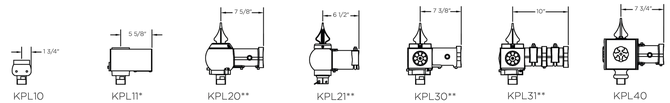


Pendant

Finial Options (Post Top/Side Mount)

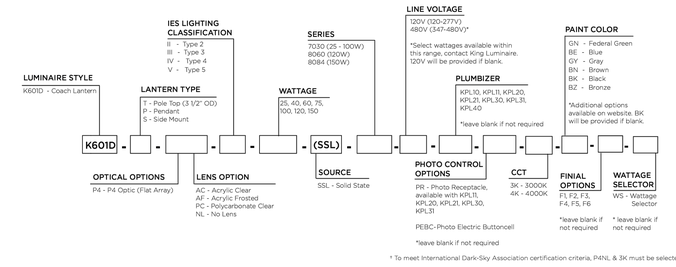


Plumbizer/Mounting Options (Pendant)



*Available with PR7
**Available with PR7 or finial

HOW TO ORDER



† To meet International Dark-Sky Association certification criteria, P4NL & 3K must be selected

StressCrete GROUP

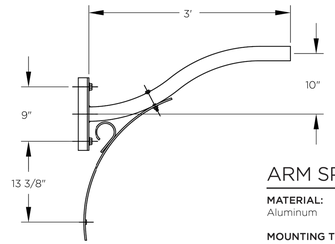
www.scgrp.com

King Luminaire

KA40 // MINI SCROLL ARM WITH DECORATIVE SCROLL

DECORATIVE ARM

King Luminaire



The King Luminaire KA40 Mini Scroll Arm with Decorative Scroll is a delicate and simple arm with a decorative scroll embellishment. Available in either side, tenon or wall mount, and single or double arm configurations, the KA40 is an ideal solution when space is limited.

ARM SPECIFICATIONS

MATERIAL:
Aluminum

MOUNTING TYPE:
Side
Tenon
Wall

ARM QUANTITY:
Single
Double

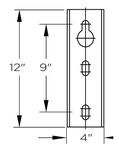
ARM LENGTH:
3'

FINISH:
Available in textured or smooth.

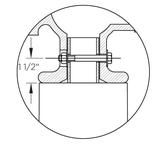
EPA
0.96 - 1.94 sq. ft.

WEIGHT
9 - 18 lbs

MOUNTING TYPES:



Side Mount Details
4" x 1 3/4" x 12"L



Tenon Mount Details
TO ACCEPT 2 3/8" DIAMETER X 2 3/4"L TENON

ARM DIMENSIONS:

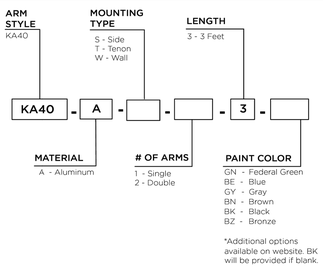
Run	Rise
3'	10"

LEVELING DEVICE:


KPL20 KPL30

*See leveling device spec sheet for more options

HOW TO ORDER



EPA & WEIGHT

Catalog Number	Mount Type	# of Arms	L (ft)	EPA (sq ft)	Wt. (lbs)
KA40-A-S-1-3	Side	1	3	0.96	9
KA40-A-S-2-3	Side	2	3	1.94	18
KA40-A-T-1-3	Tenon	1	3	1.25	9
KA40-A-T-2-3	Tenon	2	3	1.85	18
KA40-A-W-1-3	Wall	2	3	1.18	13

06-05-2025

No	REVISION	DATE
5	ISSUED FOR SITE PLAN APPROVAL	2026.04.21
4		
3	ISSUED FOR SITE PLAN APPROVAL	2026.01.12
2	ISSUED FOR SITE PLAN APPROVAL	2025.07.31
1	ISSUED FOR REVIEW	2025.07.02

LICENSED PROFESSIONAL ENGINEER
T. ALI
100084607
Apr 21, 2026
PROVINCE OF ONTARIO

MIGHTON ENGINEERING
493 LANCASTER ST W, UNIT 204
KITCHENER, ON N2K 1L8
PH (519) 745-3703
WEB www.mighton.com

PROJECT TITLE:
PROPOSED

WELLINGTON DEVELOPMENT

73 & 79 SIDEROAD 19
FERGUS, ONTARIO

DRAWING TITLE:
FIXTURE SPEC SHEETS

DRAWN BY: B.E.	CUSTOMER PROJECT No. –
CHECKED BY: T.A.	MIGHTON PROJECT No. 45173
DATE: JULY 2025	DRAWING No. SL.2
SCALE 1:300	