

1 MASTER SITE PLAN - ELECTRICAL
E100 1 : 250

DETAIL APPLIES TO FIXTURE TYPES:

H-A
H-B
H-C
H-D
H-E

THE 'POLE' IS NOTED AS H-POLE IN THE LUMINAIRE SCHEDULE

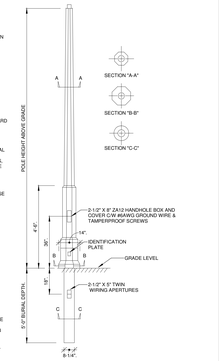
DIRECT BURIAL METHOD STANDARD

NOTE:

GENERALLY THE NATIVE MATERIAL CAN BE USED FOR BACKFILL. DEPENDING ON SITE CONDITIONS, ALTERNATIVE MATERIALS MAY BE REQUIRED.

FOLLOW THE MANUFACTURER RECOMMENDATION FOR INSTALLATION ON A CASE BY CASE BASIS.

1. AUGER THE APPROPRIATE SIZE HOLE.
2. SET POLE IN HOLE AND PLUMB STRAIGHT.
3. BACKFILL WITH SPECIFIED MATERIAL, TAMPING EVERY 6".

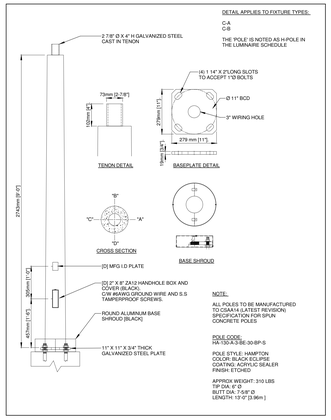


2 CONCRETE POLE INSTALLATION DETAIL
E100 NTS.

DETAIL APPLIES TO FIXTURE TYPES:

C-A
C-B

THE 'POLE' IS NOTED AS H-POLE IN THE LUMINAIRE SCHEDULE



3 LIGHTING STANDARD BASE PEDESTRIAN
E100 NTS.

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CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS ON THE JOB.

NO.	REVISIONS	DATE
11	RE-ISSUED FOR SPA	2022.08.08
10	RE-ISSUED FOR TENDER	2022.07.08
9	ISSUED FOR ESA REVIEW	2022.04.27
8	ISSUED FOR TENDER	2022.04.19
7	ISSUED FOR PROGRESS	2022.04.04
6	ISSUED FOR TENDER PROGRESS SET	2022.03.31
5	ISSUED FOR PROGRESS SET	2022.03.21
4	ISSUED FOR PERMIT	2021.11.01
3	ISSUED FOR 50% CD	2021.09.20
2	ISSUED FOR CONSULTANT COORDINATION	2021.07.15
1	ISSUED FOR 100% DD	2021.06.08

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS

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DRAWN: Author	SCALE: As indicated
CHECKED: Checker	DATE: 2021.11.01

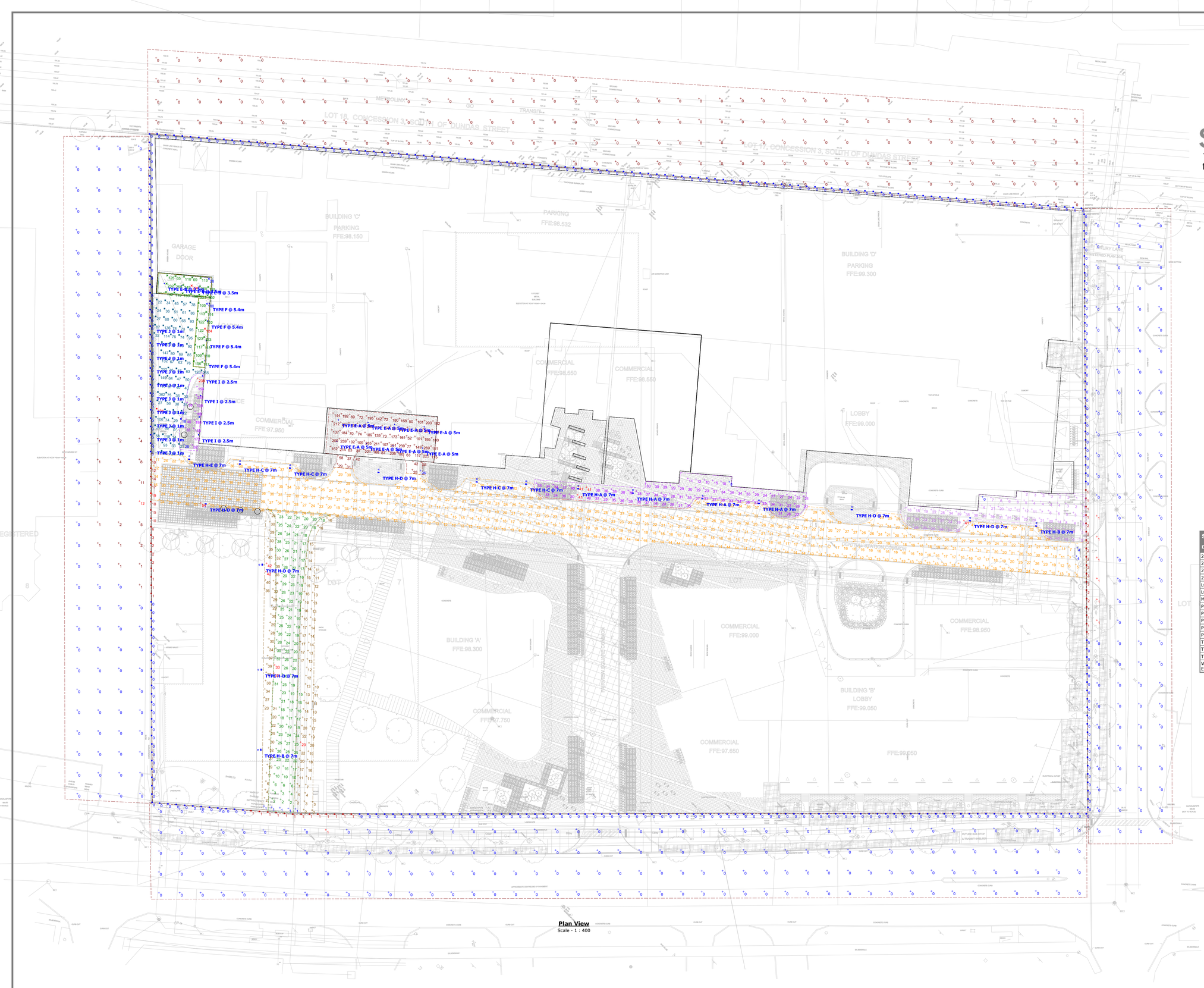
TITLE

MASTER SITE PLAN - ELECTRICAL

PROJECT NO.	DRAWING NO.
20371.000.E.001	E100

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2243 FAIRVIEW STREET
BURLINGTON ON
L7R 2E1 CANADA



Plan View
Scale - 1 : 400

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
20m BEYOND PROPERTY (EAST)	+	0 lux	1 lux	0 lux	N/A	N/A
20m BEYOND PROPERTY (NORTH)	+	0 lux	0 lux	0 lux	N/A	N/A
20m BEYOND PROPERTY (SOUTH)	+	0 lux	1 lux	0 lux	N/A	N/A
20m BEYOND PROPERTY (WEST)	+	1 lux	12 lux	0 lux	N/A	N/A
LOADING AND WEST ENTRANCE	■	97 lux	434 lux	18 lux	24.1:1	5.4:1
LOADING AREA ENTRANCE	X	158 lux	294 lux	28 lux	10.5:1	5.6:1
MAIN DROPOFF ENTRANCE WEST	+	141 lux	272 lux	26 lux	10.5:1	5.4:1
PEDESTRIAN AREA WEST	+	126 lux	238 lux	25 lux	9.5:1	5.0:1
PEDESTRIAN ZONE MIDDLE	+	31 lux	41 lux	8 lux	5.1:1	3.9:1
PEDESTRIAN ZONE WEST	+	16 lux	41 lux	0 lux	N/A	N/A
PRIVATE ROAD - EAST WEST	+	24 lux	54 lux	4 lux	13.5:1	6.0:1
PROPERTY LINE	■	0 lux	19 lux	0 lux	N/A	N/A
TEMPORARY ROAD EAST WALKWAY	+	13 lux	23 lux	1 lux	23.0:1	13.0:1
TEMPORARY ROAD LIGHTING	+	20 lux	33 lux	1 lux	33.0:1	20.0:1
TEMPORARY ROAD WALKWAY WEST	+	28 lux	42 lux	1 lux	42.0:1	28.0:1
WEST AREA - BACK OF HOUSE ENTRANCE	X	115 lux	124 lux	100 lux	1.2:1	1.2:1

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	TYPE H-A		6	WE-EF USA	108-1243_us	VPLMA2 SE, Street and Area Lighting VPLMA2 SE 4K R2 MVOLT SRM (WE-EF-108-1243) SE, Street and Area Lighting	48	210	0.8	109	Max: 4109cd
	TYPE H-B		2	WE-EF USA	108-1253_us	VPLMA2 SE, Street and Area Lighting VPLMA2 SE 4K R2 TYPE IV MVOLT SRM (WE-EF-108-1253) SE, Street and Area Lighting	36	190	0.8	81	Max: 7205cd
	TYPE H-C		4	WE-EF USA	108-1270_us	VPLMA2 SE, Street and Area Lighting VPLMA2 SE 4K R2 TYPE IV MVOLT SRM (WE-EF-108-1270) SE, Street and Area Lighting	36	210	0.8	81	Max: 4726cd
	TYPE H-D		6	WE-EF USA	108-2060_us	VPLMA2 SE, Street and Area Lighting VPLMA2 SE 4K R2 MVOLT SRM (WE-EF-108-2060) HS,TUNNEL,WLAP,HSS SE, Street and Area Lighting	48	354	0.8	162	Max: 10157cd
	TYPE J		10	LUMINII	lum-4672-8030	Auto 7 Recessed luminaire	1	2685	0.8	36	Max: 2254cd
	TYPE H-E		1	WE-EF USA	108-1281_us +430-4029	VPLMA2 SE, Street and Area Lighting VPLMA2 SE 4K R2 MVOLT SRM (WE-EF-108-1281) + 21180	48	72	0.8	54	Max: 4726cd
	TYPE I		4	SRGA Commercial, LLC SRGA 4' FT 8ft 25W 2 way	13458		1	4847	0.8	57	Max: 2646cd
	TYPE E-A		8	Upshare Architectural Lighting	EVOK 35/40 4K MD LS	EVO 6IN ROUND, 3500K, 4000LM, MEDIUM DIST, SPECULAR FINISH	1	4785	0.8	57.41	Max: 3924cd
	TYPE E-B		3	Upshare Architectural Lighting	EVOK 35/40 4K WD LBS	EVO 6IN ROUND, 4K CRI, 3500K, 4000LM, WIDE DIST, CLEAR, OPEN OPAL	1	4275	0.8	47.3	Max: 3016cd
	TYPE F		4	Lithonia Lighting	WDGE1 LED P3 740K	WDGE1 LED WITH P3 - PERFORMANCE PACKAGE, 30MA, 7400, TYPE V MTD	1	9548	0.8	71.6052	Max: 5634cd

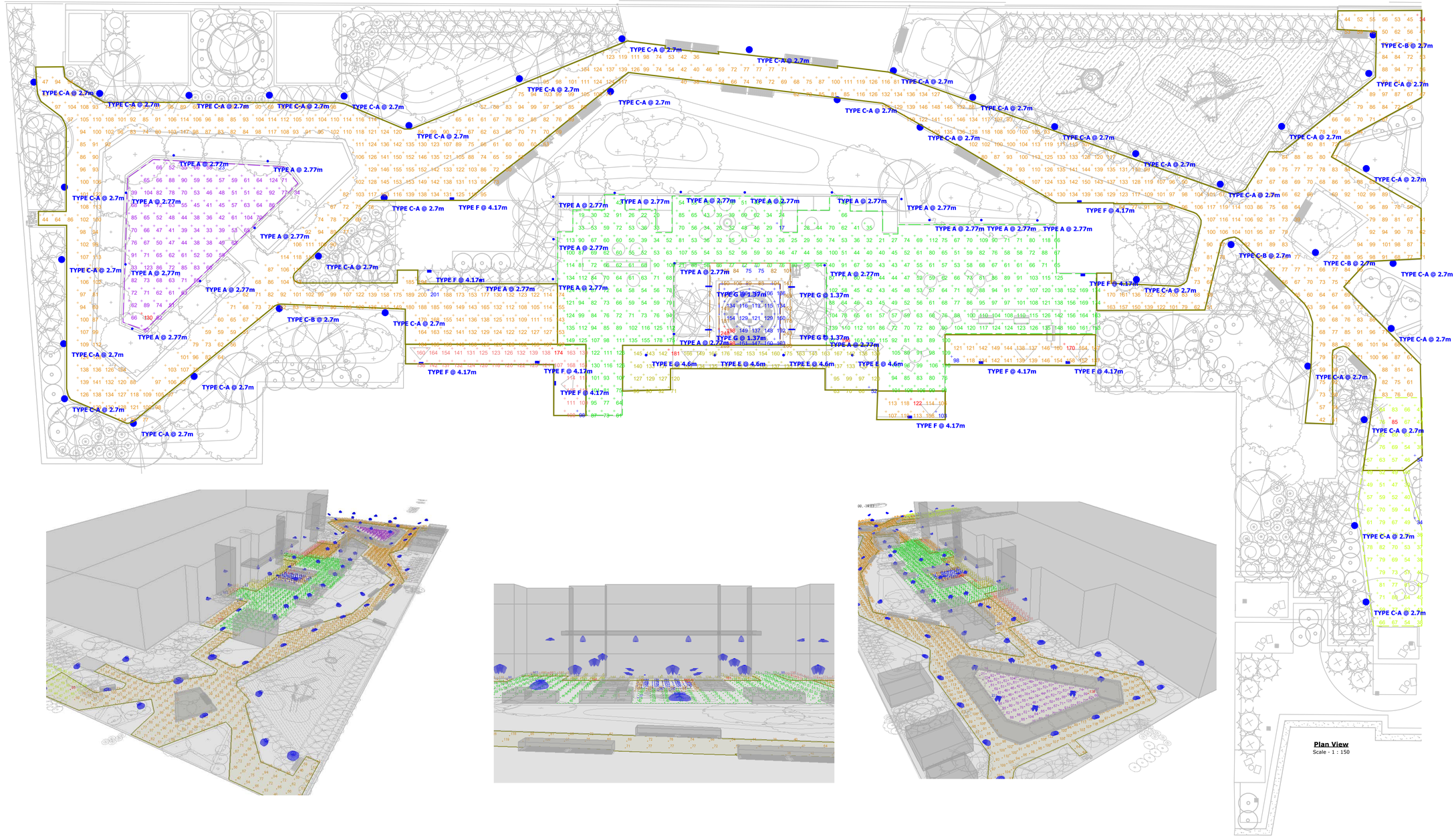
LICENSED PROFESSIONAL ENGINEER
H. ROMANI
100508102
August 8, 2022
PROVINCE OF ONTARIO

20371.000.E.001
2243 FAIRVIEW STREET
SITE LIGHTING
ENVIROMENTAL ZONE - E3

Revision 1
Date: 08/08/2022
Scale as Noted

TITLE
E-W PRIVATE ROAD

DWG #
SPA-E01



Plan View
Scale - 1 : 150

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ACTIVITY AREA	+	79 lux	196 lux	17 lux	11.5:1	4.6:1
EAST ENTRANCES	+	142 lux	170 lux	98 lux	1.7:1	1.4:1
EAST WALKWAY - CONNECTING TO NEXT PHASE	+	60 lux	85 lux	34 lux	2.5:1	1.8:1
HOTTUB AREA	+	143 lux	198 lux	102 lux	1.9:1	1.4:1
HOTTUB WALKWAY	+	141 lux	248 lux	75 lux	3.3:1	1.9:1
MAIN ENTRANCE AREA	+	132 lux	181 lux	52 lux	3.5:1	2.5:1
PET AREA	+	63 lux	130 lux	23 lux	5.7:1	2.7:1
SOUTH EAST ENTRANCE	+	111 lux	122 lux	103 lux	1.2:1	1.1:1
WALKWAY	+	98 lux	201 lux	34 lux	5.9:1	2.9:1
WEST AREA ENTRANCES	+	131 lux	174 lux	98 lux	1.8:1	1.3:1

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	LMF	Wattage	Plot
	TYPE A		23	BEGA	84 065 3K4	PAVING3	1	2168	0.8	44	
	TYPE C-A		35	Lithonia Lighting	WAOPT P2 30K ASY RFA	WAOAW Post Top with P2 3000K Asymmetric distribution with right rotated optics	1	4686	0.8	38.0167	
	TYPE C-B		4	Lithonia Lighting	WAOPT P2 30K SYM	WAOAW Post Top with P2 3000K Symmetric distribution	1	4631	0.8	38.0167	
	TYPE E		4	Upshyn Architectural Lighting	EVOK 30/25 AR MD LS	EVO AIR ROUND, AR CEIL 3000K, 2500LM, WIDE DIST, CLEAR, SPECULAR	1	2580	0.8	24.7	
	TYPE F		13	Lithonia Lighting	WAOAT LED P2 740/K RF SRA	WAOAT LED WITH P2 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE II OPTIC	1	9548	0.8	71.6952	
	TYPE G		4	Luminaire	BLEO-SO-1SO-E1T-CSx-540-30K-IOS-80-4	Luminiblade	1	2253	0.8	36	

Power Statistics

Description	# Luminaires	Total Watts	Area	Density
EAST ENTRANCE LPD	2	143.4 W	29.1 m²	4.9 W/m²
MIDDLE AREA ENTRANCE LPD	4	98.8 W	51.9 m²	1.9 W/m²
OVERALL WALKWAY LPD	35	1376.0 W	1098.0 m²	1.3 W/m²
SOUTH EAST ENTRANCE LPD	1	71.7 W	12.4 m²	5.8 W/m²
WEST ENTRACE LPD	3	215.1 W	33.4 m²	6.4 W/m²

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20371.000.E.001
2243 FAIRVIEW STREET
SITE LIGHTING
ENVIROMENTAL ZONE - E3

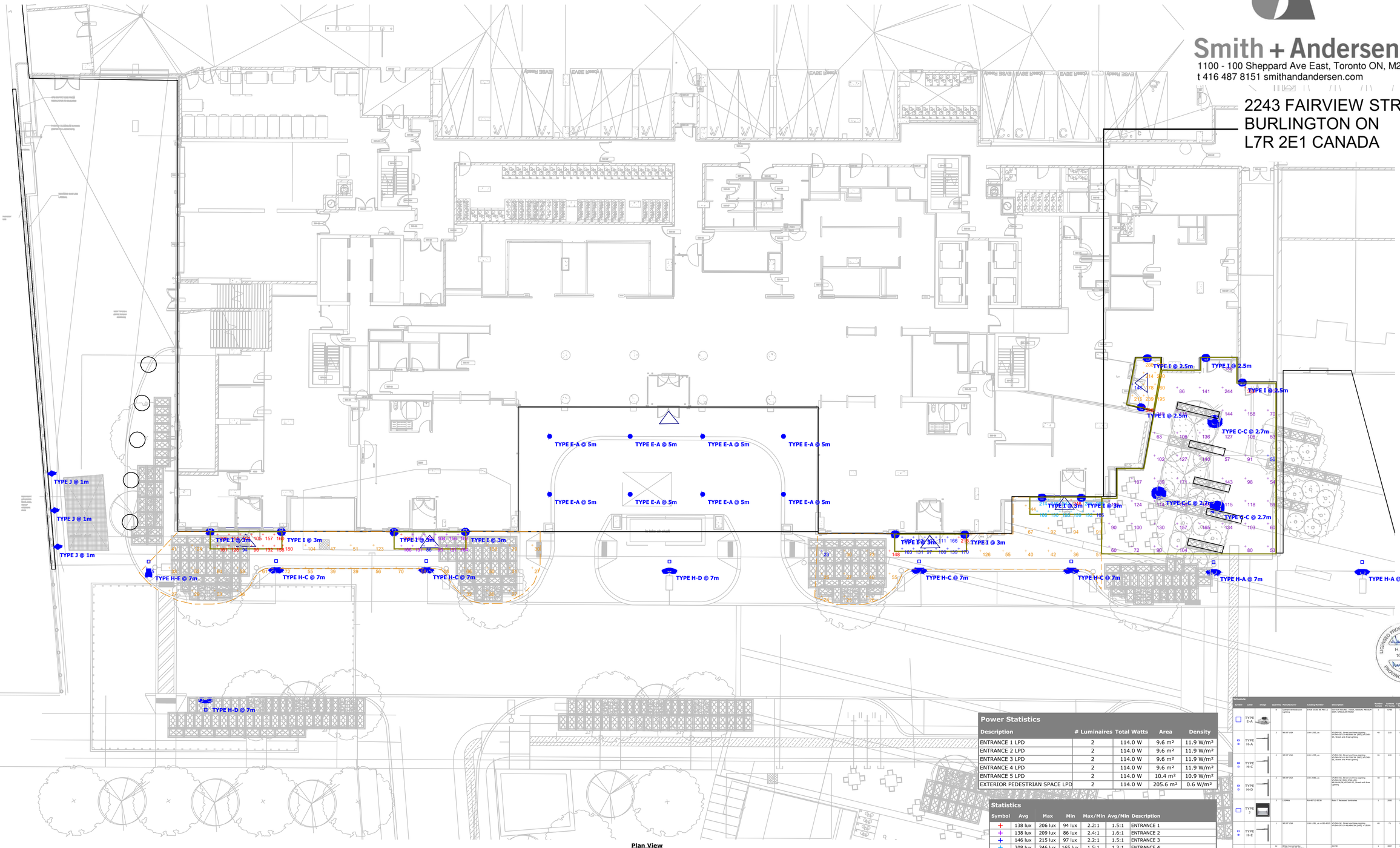
Revision 0
Date: 08/09/2022
Scale 1:150

TITLE
LEVEL 4 SITE PLAN

DWG #
SPA-E02

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2243 FAIRVIEW STREET
BURLINGTON ON
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Plan View

Power Statistics

Description	# Luminaires	Total Watts	Area	Density
ENTRANCE 1 LPD	2	114.0 W	9.6 m²	11.9 W/m²
ENTRANCE 2 LPD	2	114.0 W	9.6 m²	11.9 W/m²
ENTRANCE 3 LPD	2	114.0 W	9.6 m²	11.9 W/m²
ENTRANCE 4 LPD	2	114.0 W	9.6 m²	11.9 W/m²
ENTRANCE 5 LPD	2	114.0 W	10.4 m²	10.9 W/m²
EXTERIOR PEDESTRIAN SPACE LPD	2	114.0 W	205.6 m²	0.6 W/m²

Statistics

Symbol	Avg	Max	Min	Max/Min	Avg/Min	Description
+	138 lux	206 lux	94 lux	2.2:1	1.5:1	ENTRANCE 1
+	138 lux	209 lux	86 lux	2.4:1	1.6:1	ENTRANCE 2
+	146 lux	215 lux	97 lux	2.2:1	1.5:1	ENTRANCE 3
+	208 lux	246 lux	165 lux	1.5:1	1.3:1	ENTRANCE 4
+	218 lux	305 lux	146 lux	2.1:1	1.5:1	ENTRANCE 5
+	120 lux	332 lux	50 lux	6.6:1	2.4:1	EXTERIOR PEDESTRIAN SPACE
+	60 lux	148 lux	23 lux	6.4:1	2.6:1	PEDESTRIAN AREA WALKWAY MIDDLE
+	56 lux	180 lux	25 lux	7.2:1	2.2:1	PEDESTRIAN WALKWAY ENTRANCE WEST

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Plot
	TYPE E-A		8	Gotham Architectural Lighting	EVOS 35/50 WB MD LS	EVOS 35/50W WB MD LS (3000K, 3500K, OR 4000K), MEDIUM DIST	1	6786	0.8	57.65	Plot - 3000K.ies
	TYPE H-A		2	MO-ST USA	198-1265_xx	HPLS40 SD: Street and Area Lighting HPLS40 SD-xx-ALLTHEW: 3500, HPLS40 SD: Street and Area Lighting	48	210	0.8	329	Plot - 6339k2
	TYPE H-C		6	MO-ST USA	198-1291_xx	HPLS40 SD: Street and Area Lighting HPLS40 SD-xx-ALLTHEW: 3500, HPLS40 SD: Street and Area Lighting	36	210	0.8	61	Plot - 4758k2
	TYPE H-D		2	MO-ST USA	198-3580_xx	HPLS40 SD: Street and Area Lighting HPLS40 SD-3000_ANALOG-xx-ALLTHEW:3K,HPLS40 SD: Street and Area Lighting	48	350	0.8	102	Plot - 10137.ies
	TYPE J		2	LUMARK	RX-BZ12-BEDE	Rotiz 7 Recessed luminaires	1	2682	0.8	30	Plot - 2294.ies
	TYPE H-E		1	MO-ST USA	198-1291_xx +410-4025	HPLS40 SD: Street and Area Lighting HPLS40 SD-xx-ALLTHEW:3K (NAD) + 10140	48	71	0.8	74	Plot - 4758k2
	TYPE I		17	NEMA (converted to IESNA in VT-IN-2021-1 rev.)		LUMIR	1	4947	0.8	57	Plot - 2294.ies
	TYPE C-C		3	Lithonia Lighting	AADPT PA 30K SPP	RADIAN Post Top with PA 3000K luminaire distribution	1	1.437E	0.8	65.6762	Plot - 3047.ies

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20371.000.E.001
2243 FAIRVIEW STREET
SITE LIGHTING
ENVIROMENTAL ZONE - E3

Revision 0
Date: 08/08/2022
Scale 1:150

TITLE
E-W PRIVATE ROAD ENTRANCES
DWG #
SPA-E03