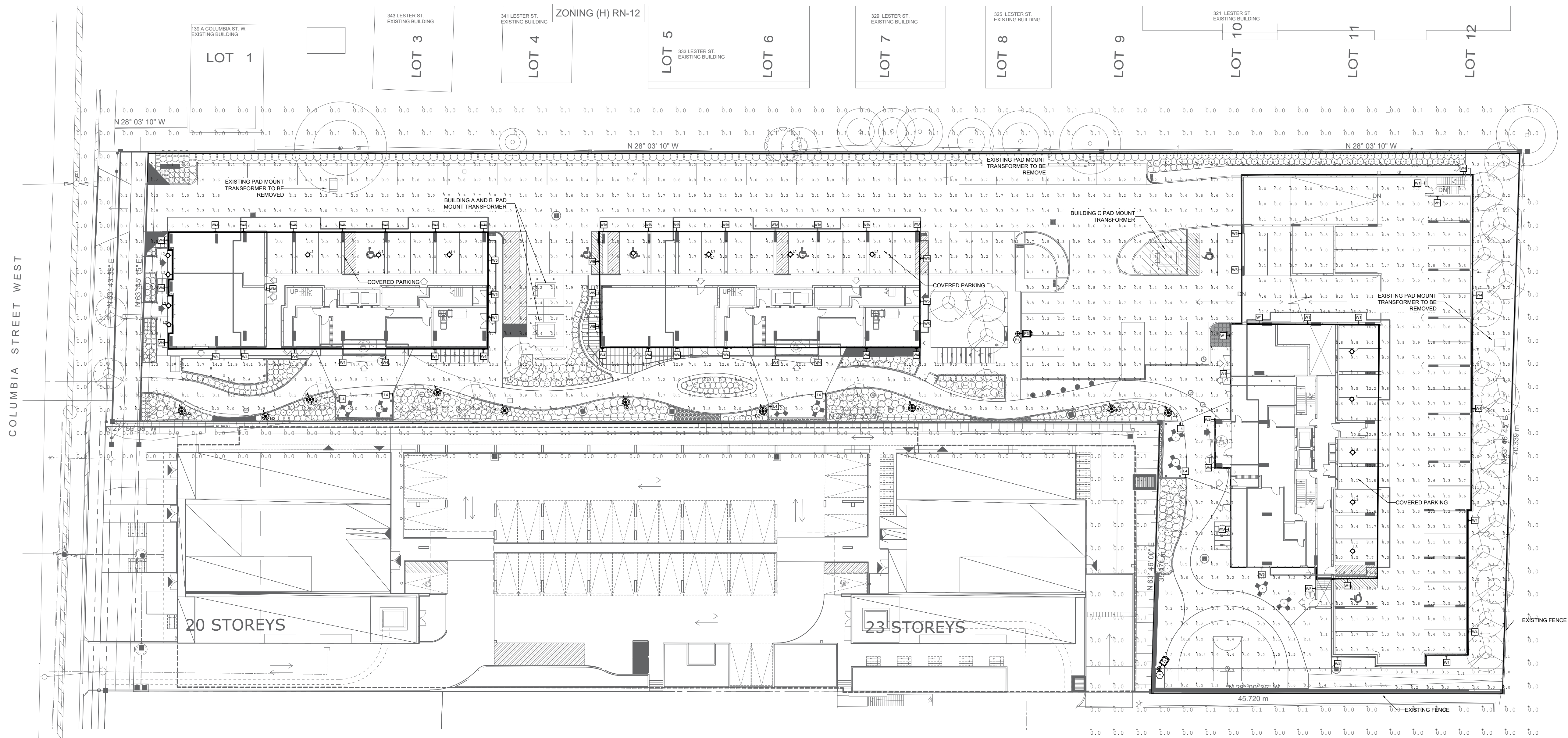
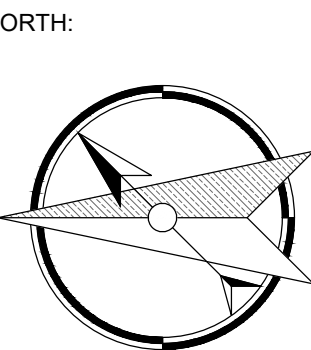




NOTE TO USER: DO NOT SCALE DRAWINGS. ALL DRAWINGS REMAIN THE PROPERTY OF ROMBALD INC. AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT WRITTEN PERMISSION.



7	SPA 4TH SUBMISSION	02/21/24
6	ISSUED FOR SPA	12/12/23
5	ISSUED FOR SPA	08/08/23
4	ISSUED FOR SPA	04/04/23
3	ISSUED FOR REVIEW	03/27/23
2	ISSUED FOR SPA	11/03/21
1	ISSUED FOR REVIEW	11/01/21
#	DESCRIPTION	MM/DD/YY

143 COLUMBIA STREET
WEST DEVELOPMENT
143 COLUMBIA ST
WATERLOO, ON

DRAWING TITLE:
SITE LIGHTING PLAN

DRAWN BY: N.RUTTAN	CHECKED BY: B.WIRZBA	APPROVED BY: D.SARGENT
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SCALE: AS NOTED	SHEET SIZE: ARCH D
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PROJECT #: 20-258	SHEET #: ES.1
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1 ELECTRICAL SITE LIGHTING PLAN
ES.1 1:300

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Max/Avg	Avg/Min	# Points
COVER PARKING A	illuminance	Fc	3.78	5.3	2.0	2.65	1.89	-
COVER PARKING B	illuminance	Fc	3.61	5.4	2.2	2.45	1.64	-
GROUND PLANAR	illuminance	Fc	2.12	19.9	0.0	N/A	N/A	-
OPEN PARKING TOP	illuminance	Fc	4.59	32.7	0.0	N/A	N/A	-
PROPERTY LINE	illuminance	Fc	0.01	0.3	0.0	N/A	N/A	-

1. CONDUIT TYPES AS NOTED ON DRAWING
2. DEVICE MOUNTING HEIGHTS TO BOTTOM OF DEVICES UNLESS OTHERWISE NOTED ON PLANS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION. NOTIFY CONSULTANT OF ANY DISCREPANCIES.

G1 THE CANADIAN STANDARD FORM OF CONSTRUCTION CONTRACT AND GENERAL CONDITIONS GOVERNING THE SAME CCDC ARTICLES 1 TO 45 INCLUSIVE ARE HEREBY MADE A PART OF THIS SPECIFICATION.

- | SYMBOL | DESCRIPTION | MTD. HEIGHT |
|---|--------------------------------------|-------------|
|  | POLE MOUNTED FIXTURE | AS NOTED |
|  | PENDANT FIXTURE / RECESSED DOWNLIGHT | AS NOTED |
|  | WALL MOUNTED FIXTURE | AS NOTED |
|  | BOLLARD FIXTURE | N/A |
|  | NOTE TAG | N/A |

SYMBOL	METRIC	IMPERIAL
16mm	16mm	5/8"
21mm	21mm	7/8"
27mm	27mm	1"
35mm	35mm	1-1/4"
40mm	40mm	1-1/2"
50mm	50mm	2"
75mm	75mm	3"
100mm	100mm	4"

	UNDERGROUND CONDUIT (SIZE AS PER PLAN)
	OVERHEAD CONDUIT (SIZE AS PER PLAN)
	CONDUIT STUB DOWN
	CONDUIT STUB UP

(P1) ELECTRICAL CONTRACTOR SHALL PROVIDE 3' POLE BASE. REFER TO "POLE BASE DETAILS" FOR INSTALLATION DETAILS.

ROMBALD INC.

Engineers Specializing in Building Services

NORTH:

CONSULTANT STAMP:

REGISTERED PROFESSIONAL ENGINEER
ROY GOMALA
PROVINCE OF ONTARIO
02/21/24

7	SPA 4TH SUBMISSION	02/21/24
6	ISSUED FOR SPA	12/12/23
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#	DESCRIPTION	MM/DD/YY

143 COLUMBIA STREET
WEST DEVELOPMENT

143 COLUMBIA ST
WATERLOO, ON

DRAWING TITLE:

SITE LIGHTING
NOTES & DETAILS

DRAWN BY:
J.RUTTAN

CHECKED BY:
B.WIRZBA

APPROVED BY:
D.SARGENT

SCALE:
AS NOTED

SHEET SIZE:
ARCH D

PAGE #:
20-258

SHEET #:
ES.2

7	SPA 4TH SUBMISSION	02/21/24
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143 COLUMBIA STREET
WEST DEVELOPMENT
143 COLUMBIA ST
WATERLOO, ON

DRAWING TITLE:

SITE LIGHTING

NOTES & DETAILS

DRAWN BY:	CHECKED BY:	APPROVED BY:
J.RUTTAN	B.WIRZBA	D.SARGENT

SCALE:	SHEET SIZE:
AS NOTED	ARCH D

PROJECT #:	SHEET #:
20-258	ES.2

1	FIXTURE W1 SPECIFICATION SHEET
ES.3	N.T.S

2	FIXTURE W4 SPECIFICATION SHEET
ES.3	N.T.S

3	FIXTURE W4A & W5 SPECIFICATION SHEET
ES.3	N.T.S

4
ES.3

5
ES.3

6
ES.3

7	SPA 4TH SUBMISSION	02/21/24
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143 COLUMBIA STREET
WEST DEVELOPMENT

143 COLUMBIA ST
WATERLOO, ON

DRAWING TITLE:

SITE LIGHTING NOTES & DETAILS

DRAWN BY: N.RUTTAN	CHECKED BY: B.WIRZBA	APPROVED BY: D.SARGENT
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SCALE: AS NOTED	SHEET SIZE: ARCH D
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PROJECT #: 20-258 SHEET #: ES 3