

Network Diagrams

- Autani Mesh Network Diagram
- Autani System Connectivity Diagram
- Autani Network Layout Diagram
- EnOcean Network Layout Diagram

Small Office/Conference Fixture Control (Single Zone)

- Zigbee 9A Wireless Fixture Controller + A610 MultiSensor + Wireless Single Group Switch
- Zigbee 9A Fixture Controller + EnOcean Sensors + EnOcean Single Rocker
- A630 MultiSensor & Fixture Controller + A630 Fixture Controller + AS702 Zigbee Wall Dimmer Switch

Large Office/Conference Fixture Control (Two + Zones)

- Zigbee 9A Fixture Controller + EnOcean Sensors + EnOcean Double Rocker
- Zigbee 9A Fixture Controller + A610 MultiSensor + EnOcean Double Rocker
- A630 MultiSensor/Fixture Controller + EnOcean Double Rocker
- A630 MultiSensor + Glass Touch Screen Wall Switch

Small Office/Conference Zone Control (Single Zone)

- A610 MultiSensor + AS702 Zigbee Wall Dimmer Switch + Zigbee 20A Wireless Zone Controller
- WRC + EnOcean Sensors + EnOcean Single Rocker
- Zigbee 20A Zone Controller + A610 MultiSensor + EnOcean Single Rocker
- Zigbee 20A Zone Controller + EnOcean Occupancy Sensor + EnOcean Single Rocker
- A610 MultiSensor Controlling Dim to Off Fixtures

Large Office/Conference Zone Control (Two + Zones)

- WRC/Power Pack + EnOcean Occupancy Sensor + EnOcean Double Rocker
- Zigbee 20A Wireless Zone Controller + A610 Multisensor + EnOcean Double Rocker
- Zigbee 20A Wireless Zone Controller + EnOcean Occupancy Sensors + EnOcean Double Rocker
- Zigbee 20A Wireless Zone Controllers + Internet Connected Devices

High Bay Lighting Control

- A508 High Bay MultiSensor + AS702 Zigbee Wall Dimmer Switch
- A508 High Bay MultiSensor + Glass Touch Screen Wall Switch
- A508 High Bay MultiSensor + EnOcean Single Rocker

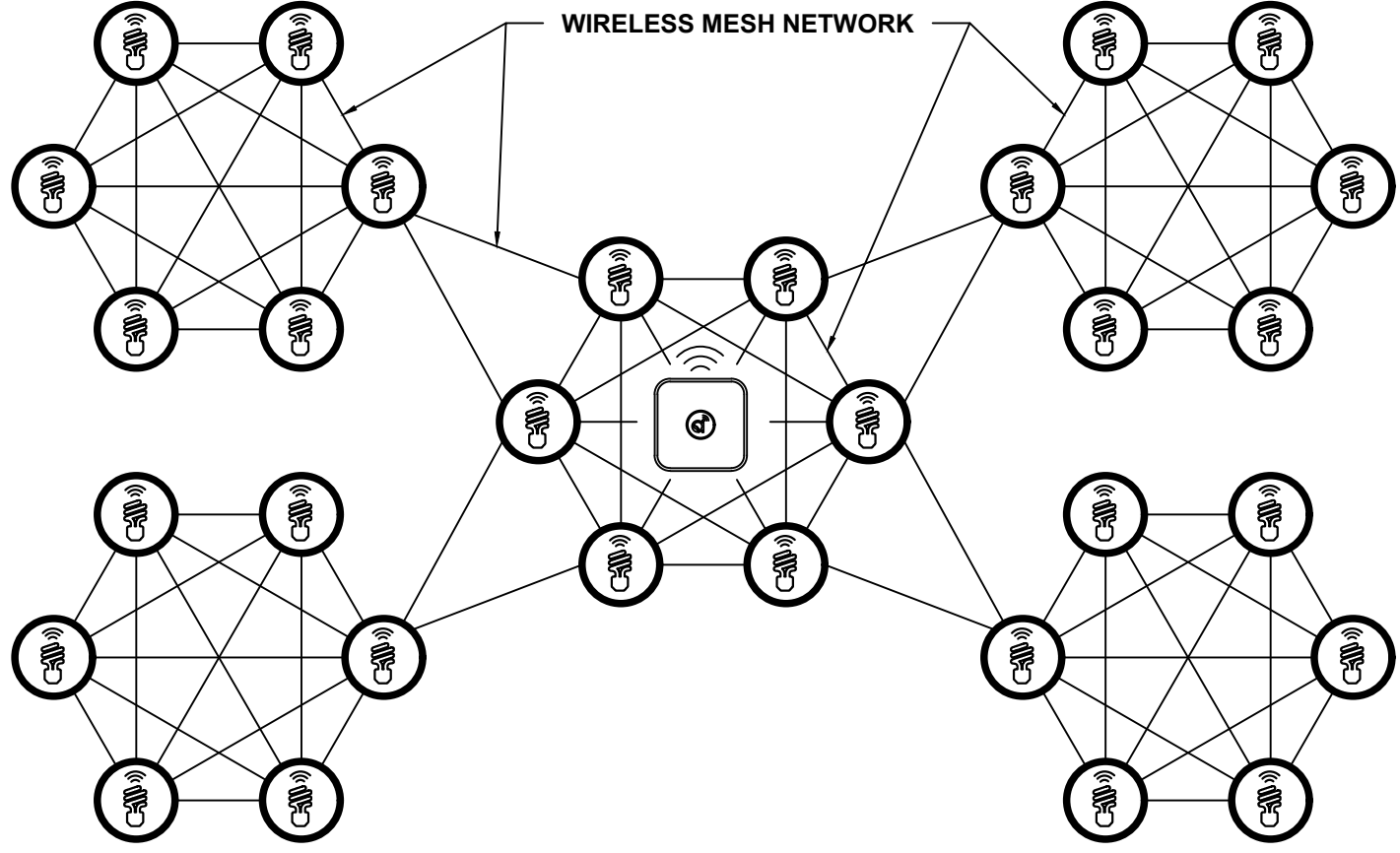
Outdoor Lighting Control

- WALI + Range Extender + Glass Touch Screen Wall Switch
- WALI + Antenna Extension Kit + Outdoor Range Extenders
- WALIs with Occ Sensor Inputs + Outdoor PIR Sensors + Antenna Extension Kit
- A620 PIR Sensor + Outdoor Range Extender + Antenna Extension Kit



HVAC

- HVAC Controls Sample

# AUTANI MESH NETWORK



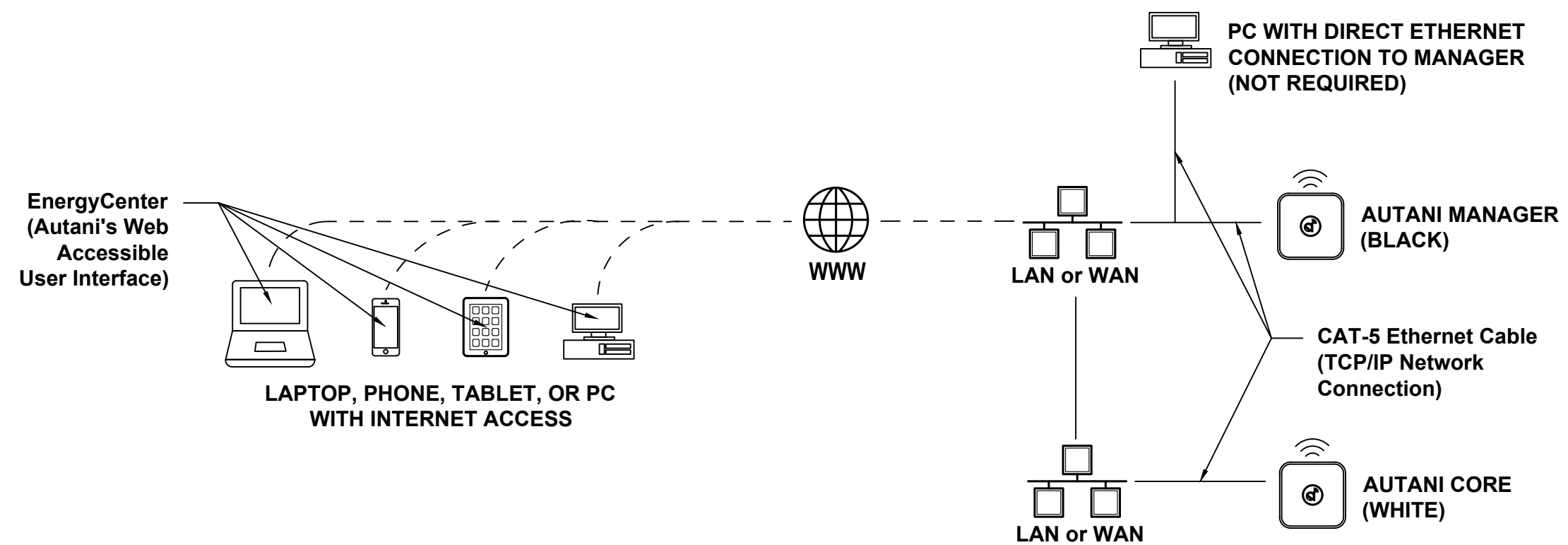
THE AUTANI MANAGER IS THE ORIGIN OF THE CONTROL SIGNAL TO CONNECTED DEVICES AND MANAGES THE WIRELESS MESH NETWORK, ALLOWING FOR REMOTE MONITORING AND CONTROL OF CONNECTED DEVICES THROUGHOUT A BUILDING SPACE. THE MANAGER HOSTS ENERGYCENTER, AUTANI'S MANAGING SOFTWARE AND USER INTERFACE. ENERGYCENTER IS USED TO MANAGE AND COLLECT DATA FROM ALL DEVICES CONNECTED TO AUTANI'S SYSTEM.

 **AUTANI MANAGER**  
 **WIRELESS DEVICE**

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PROJECT NAME		SCENARIO	
One Line Diagrams			
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		Autani Mesh Network Diagram	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	0.0
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

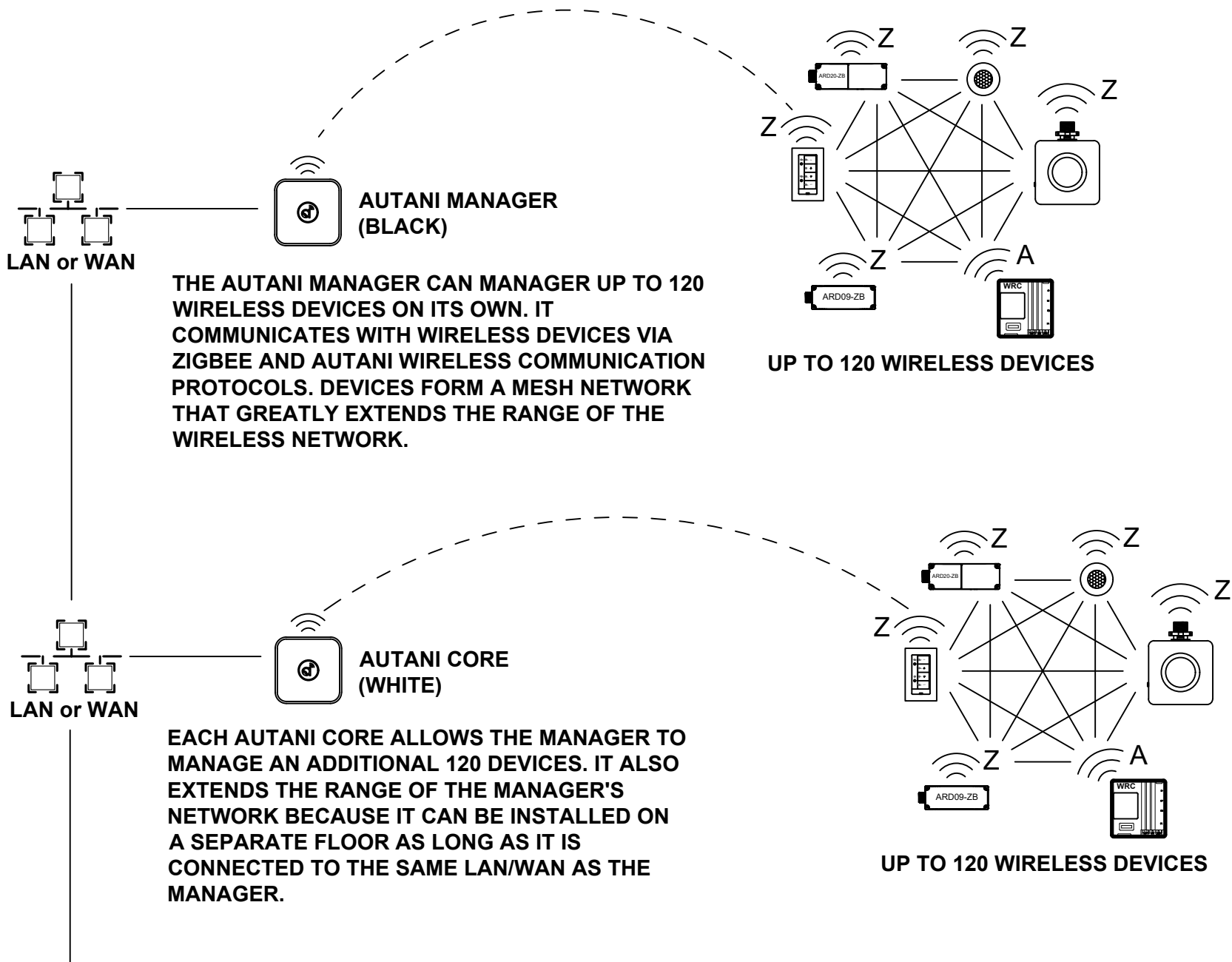
# AUTANI SYSTEM CONNECTIVITY



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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>			
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE <b>Autani System Connectivity Diagram</b>	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	<b>B</b>	<b>0.1</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

# AUTANI NETWORK LAYOUT

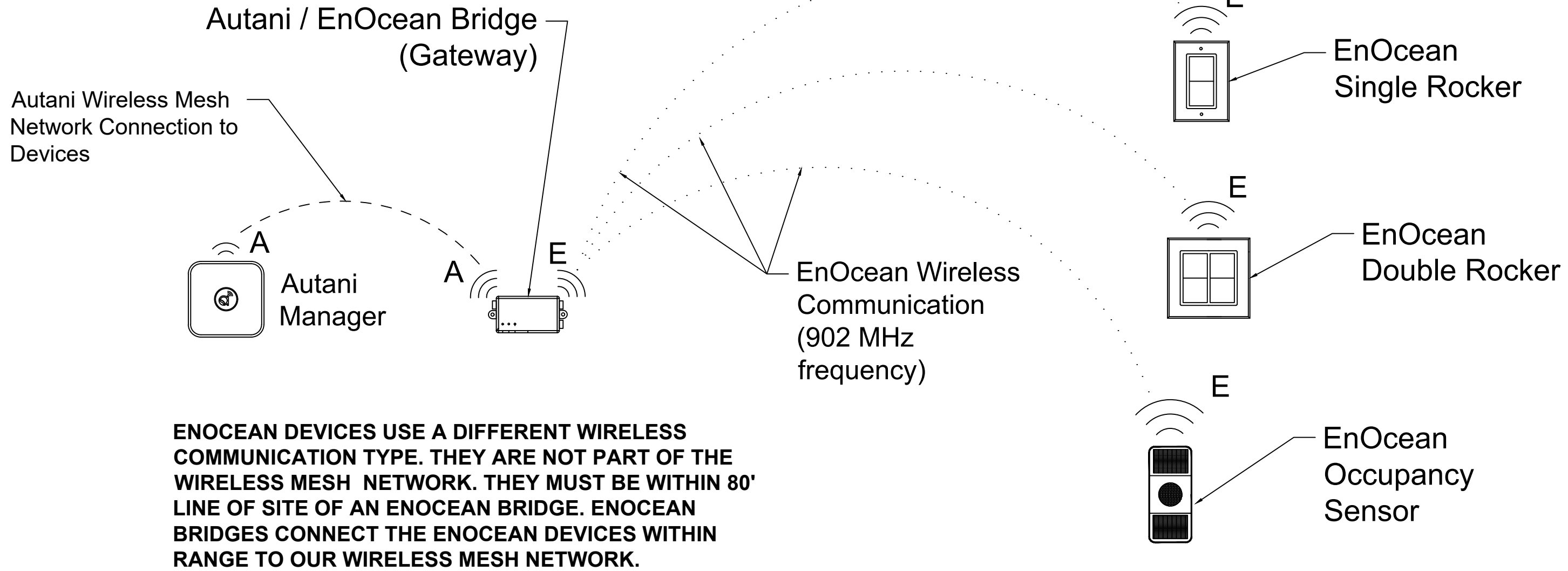


**UP TO 7 CORES CAN  
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AUTANI MANAGER**

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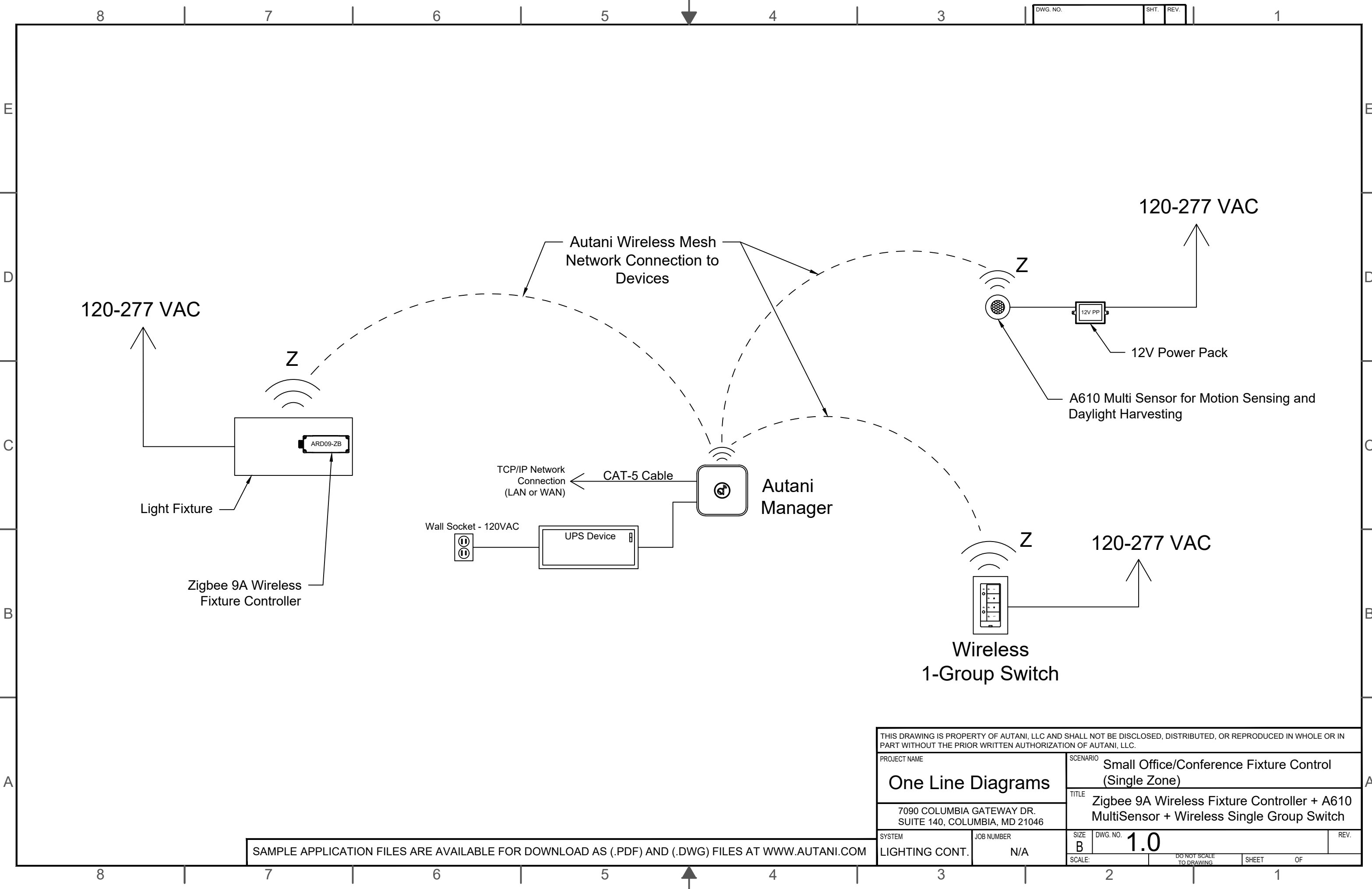
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PROJECT NAME		SCENARIO	
One Line Diagrams		Autani Network Layout Diagram	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	0.2
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

**ENOCEAN DEVICES NETWORK LAYOUT**



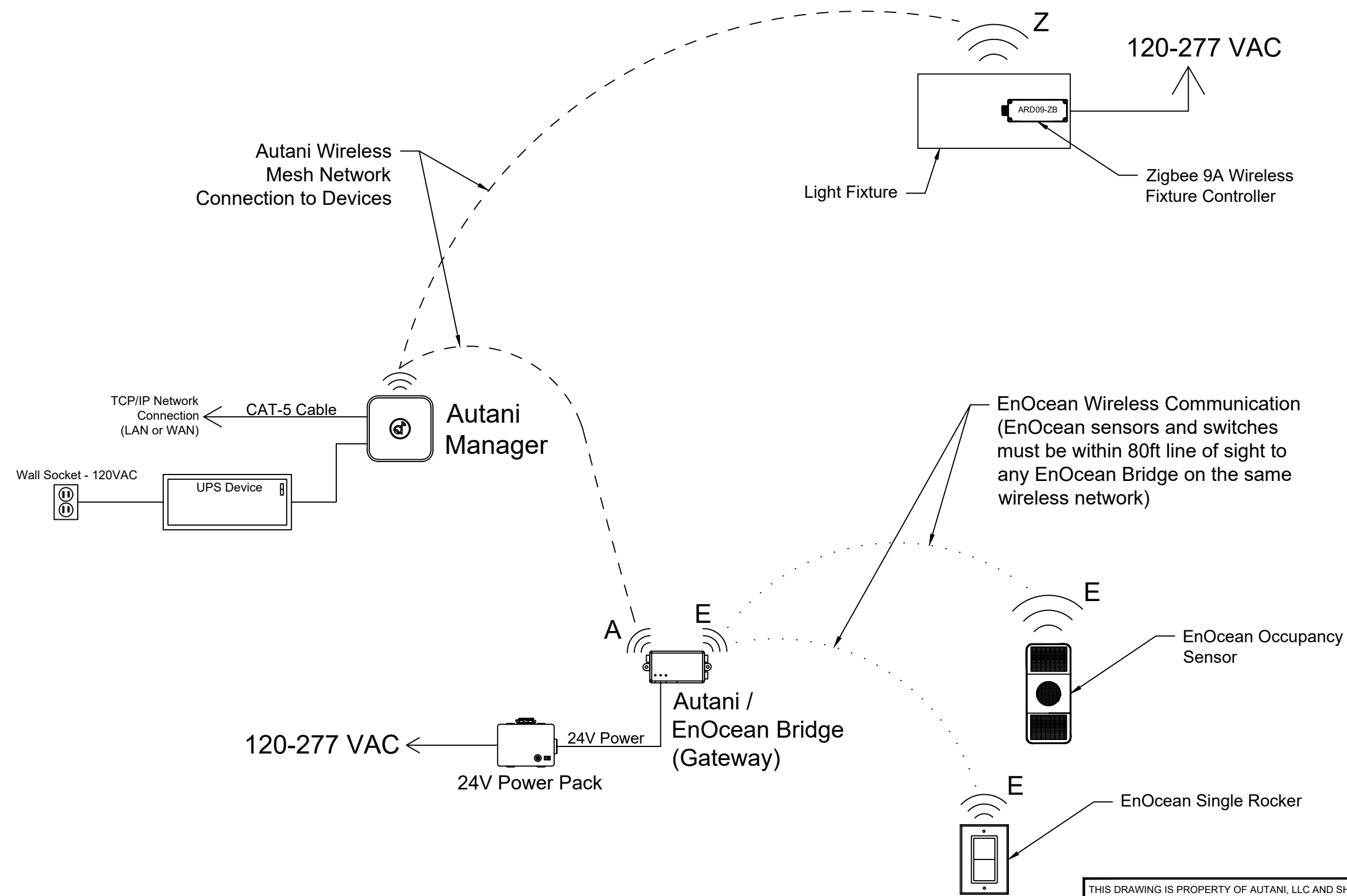
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PROJECT NAME		SCENARIO	
One Line Diagrams			
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		EnOcean Network Layout Diagram	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	0.3
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF



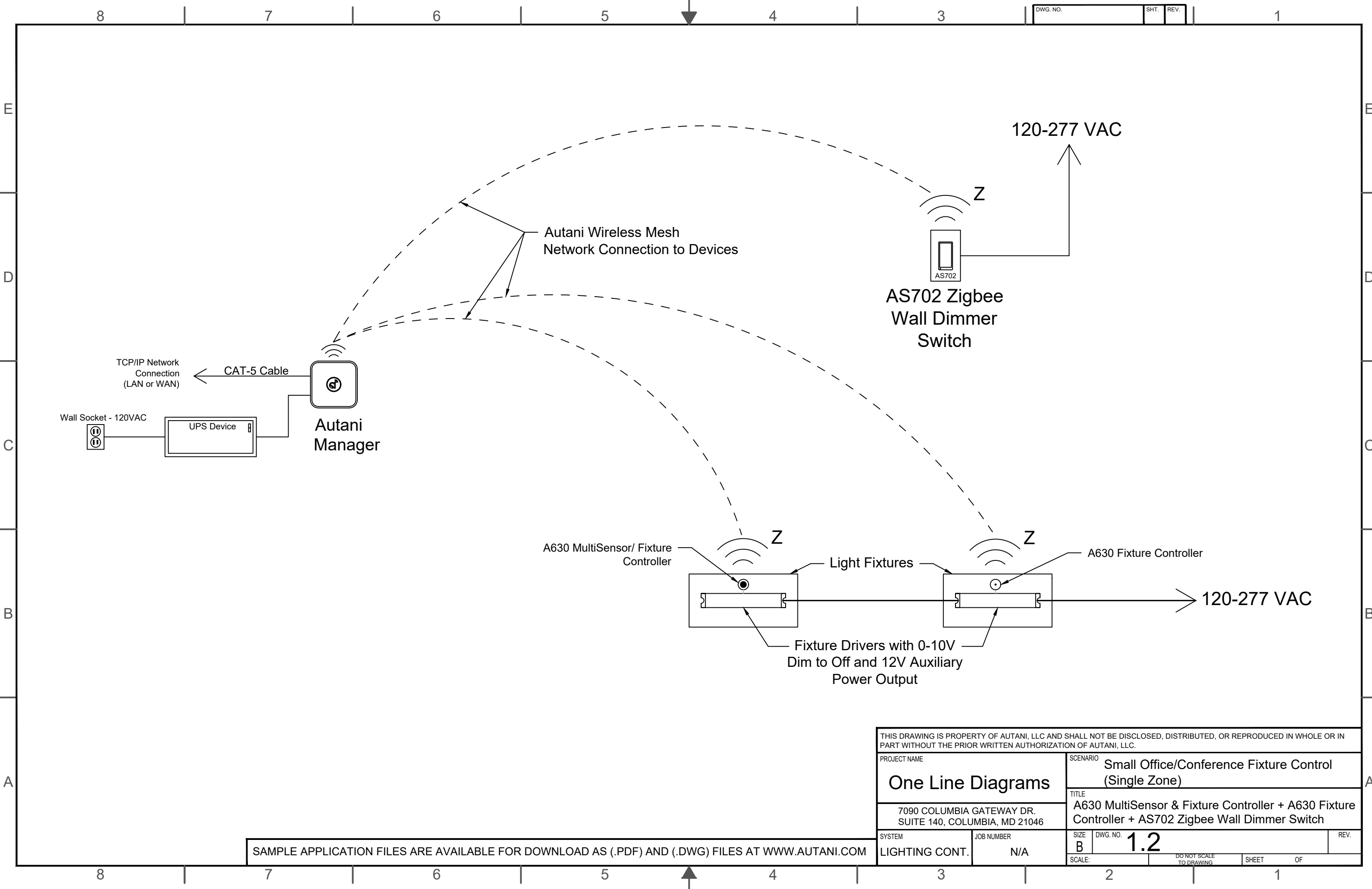
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Fixture Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		Zigbee 9A Wireless Fixture Controller + A610 MultiSensor + Wireless Single Group Switch	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	1.0
SCALE:		DO NOT SCALE TO DRAWING	
SHEET		OF	



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PROJECT NAME <b>One Line Diagrams</b>		SCENARIO Small Office/Conference Fixture Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE Zigbee 9A Fixture Controller + EnOcean Sensors + EnOcean Single Rocker	
SYSTEM LIGHTING CONT.	JOB NUMBER N/A	SIZE B	DWG. NO. <b>1.1</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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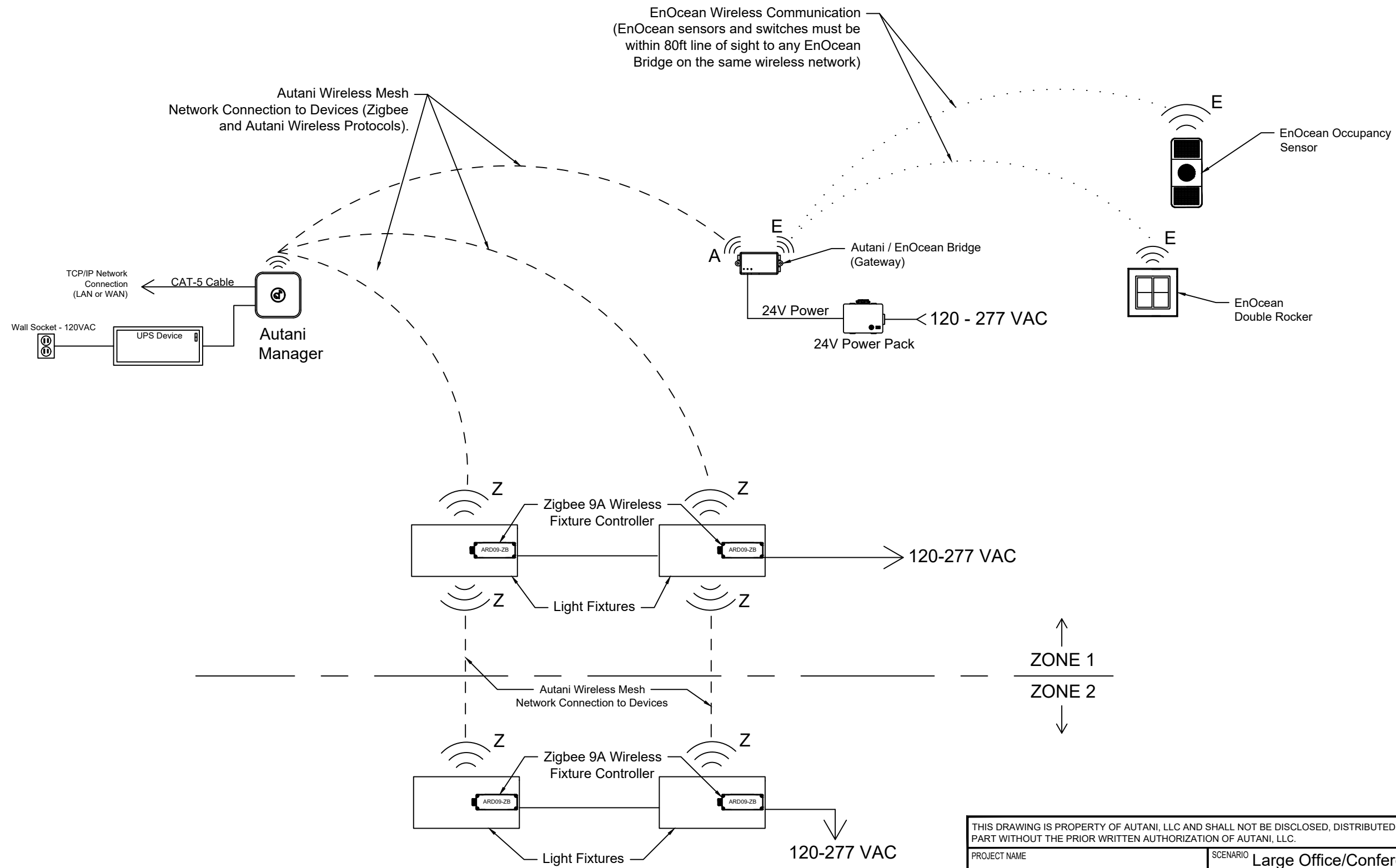


DWG. NO.	SHT.	REV.
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Fixture Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
A630 MultiSensor & Fixture Controller + A630 Fixture Controller + AS702 Zigbee Wall Dimmer Switch		SIZE	
SYSTEM	JOB NUMBER	DWG. NO.	REV.
LIGHTING CONT.	N/A	<b>1.2</b>	
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

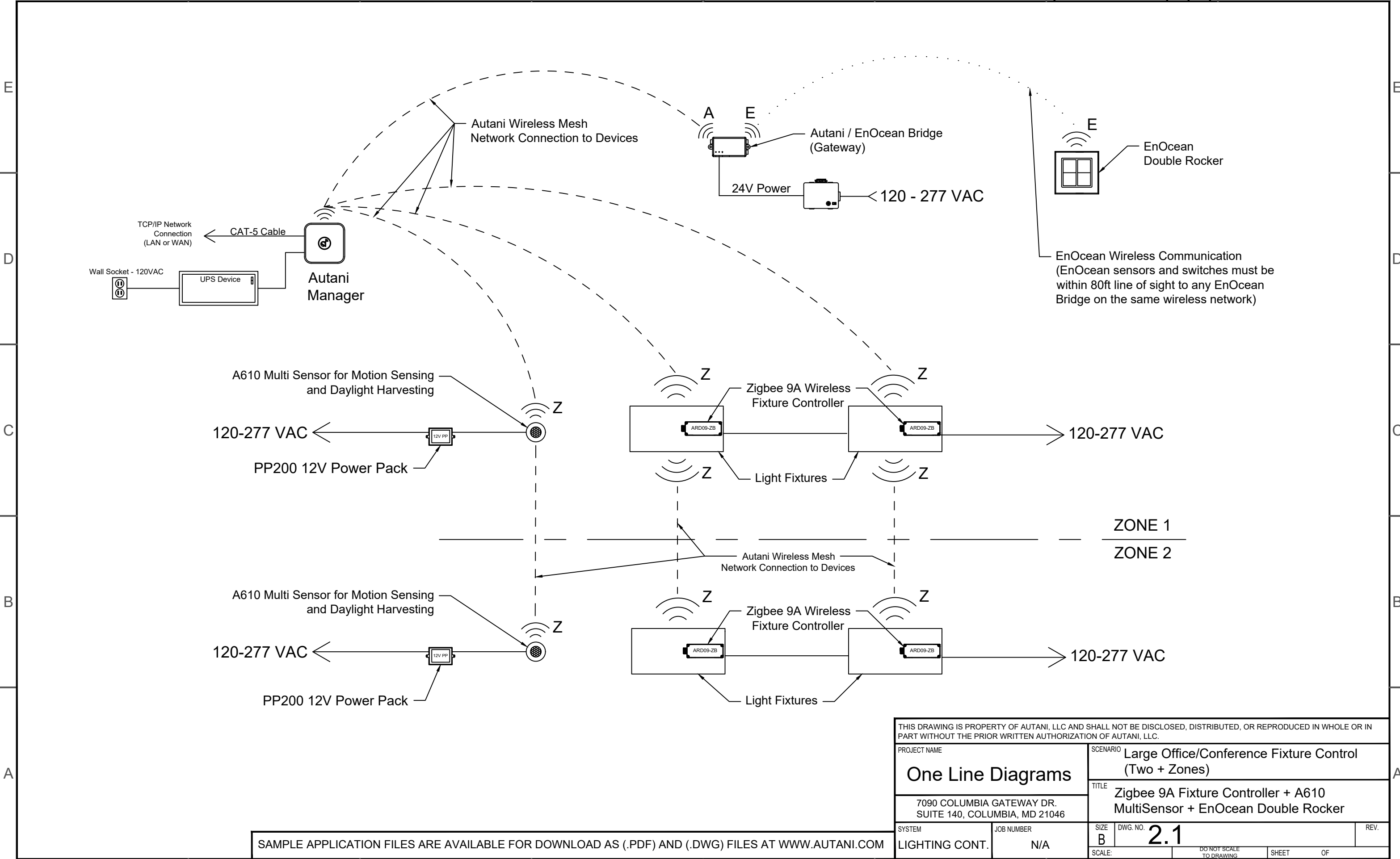
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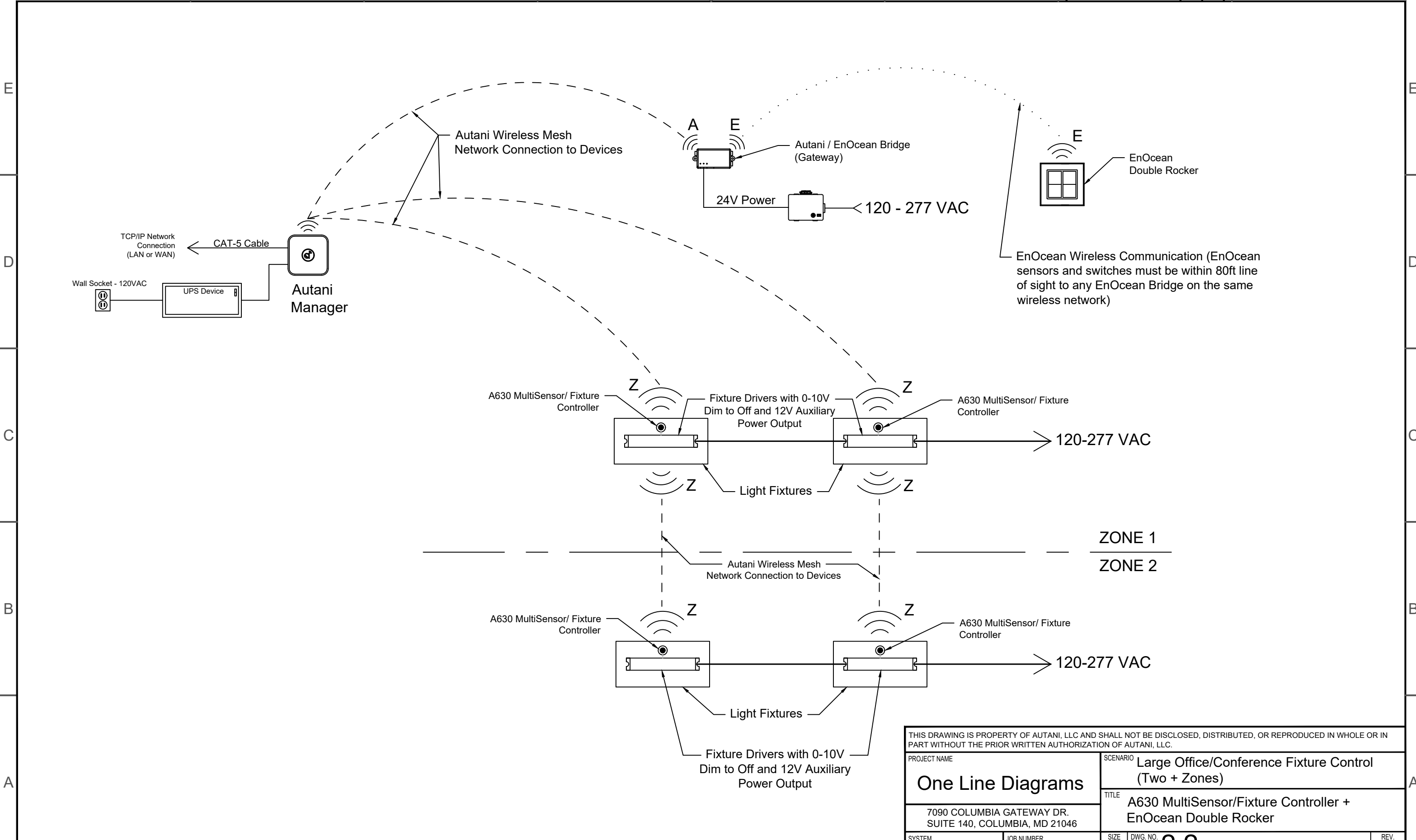
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Large Office/Conference Fixture Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		Zigbee 9A Fixture Controller + EnOcean Sensors + EnOcean Double Rocker	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	2.0
SCALE:		DO NOT SCALE TO DRAWING	
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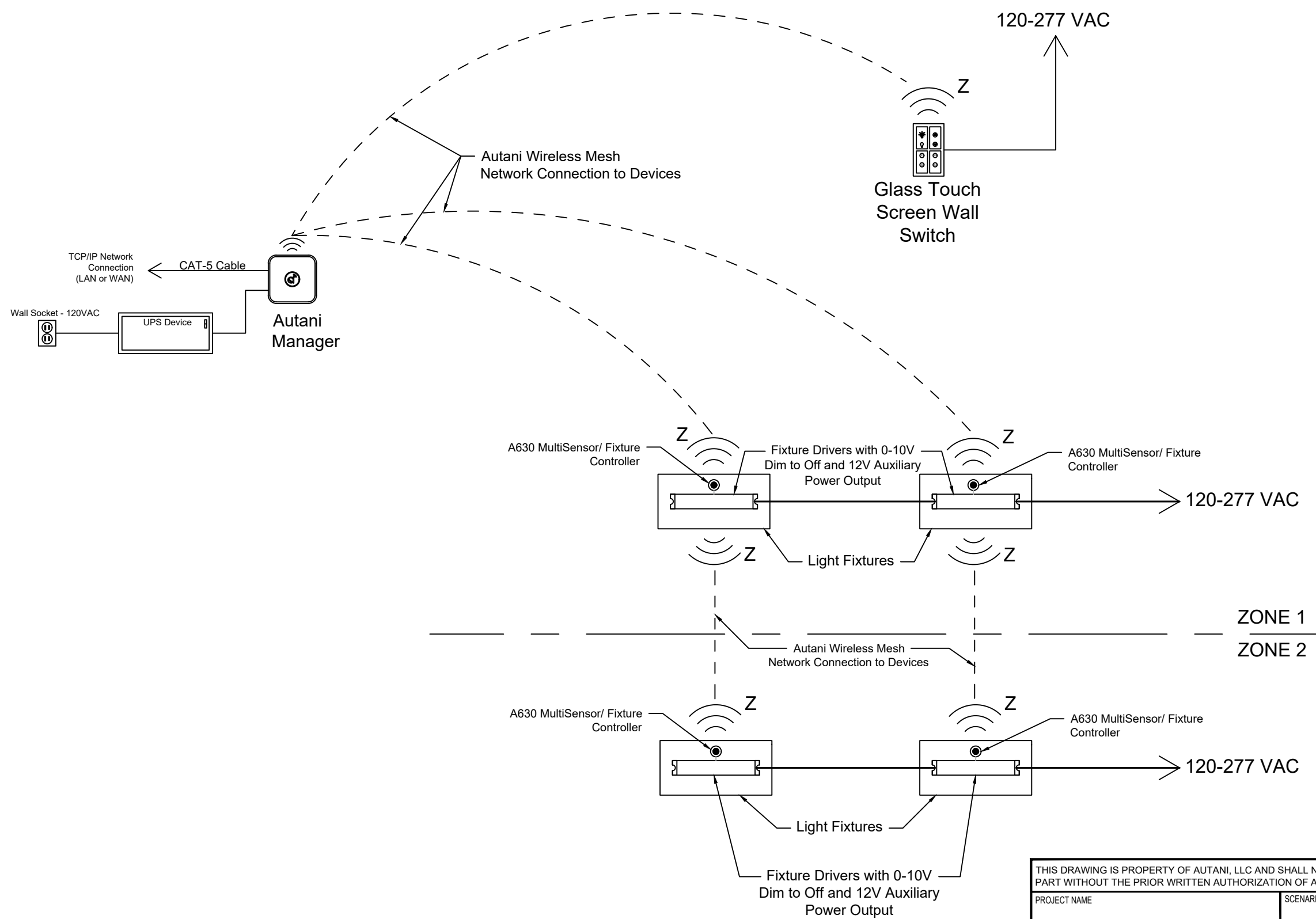
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Large Office/Conference Fixture Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
Zigbee 9A Fixture Controller + A610 MultiSensor + EnOcean Double Rocker		SIZE	
SYSTEM		DWG. NO.	REV.
LIGHTING CONT.	JOB NUMBER	<b>2.1</b>	N/A
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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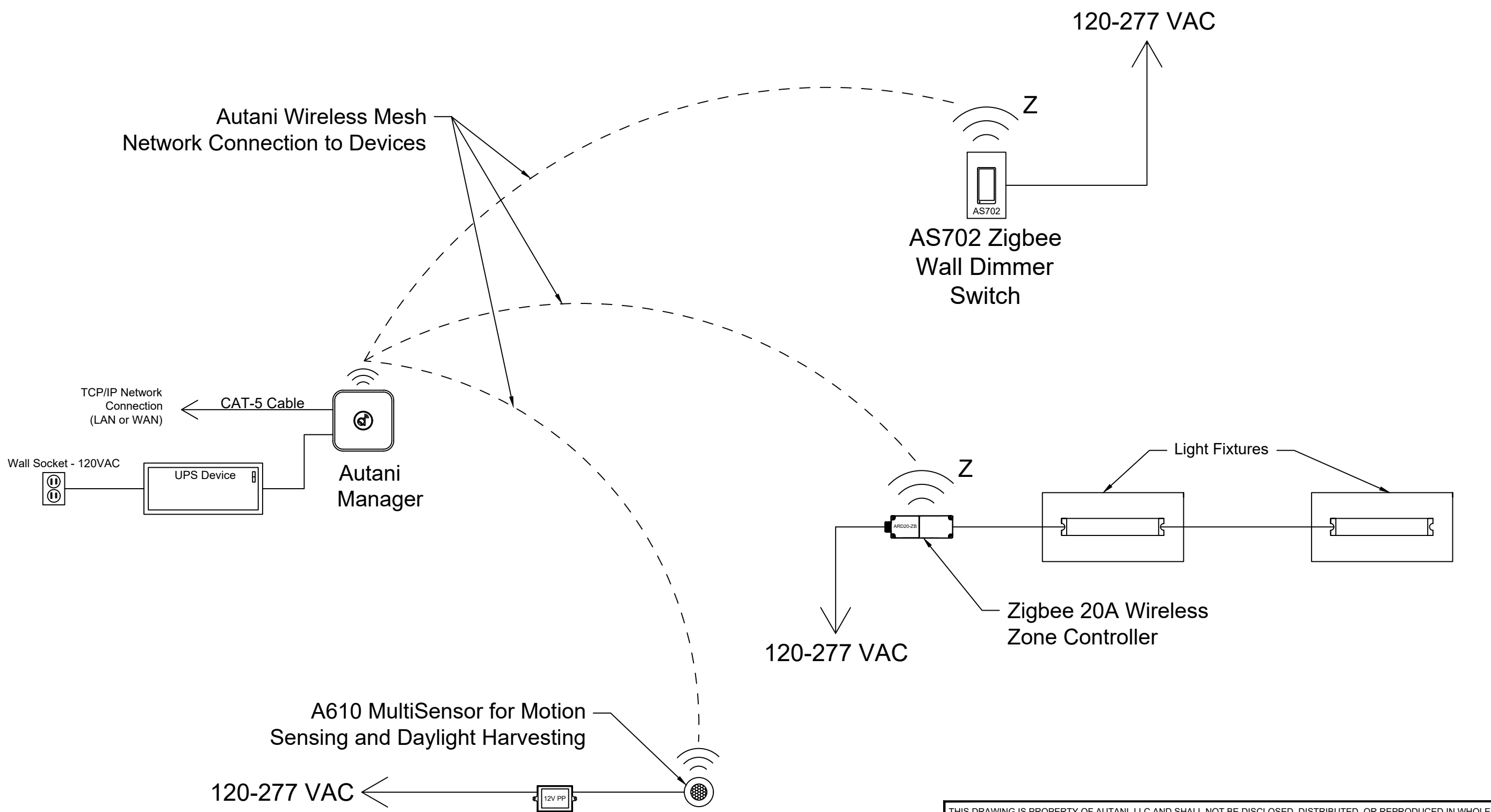
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Large Office/Conference Fixture Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
A630 MultiSensor/Fixture Controller + EnOcean Double Rocker		SIZE	
SYSTEM		DWG. NO.	
LIGHTING CONT.		<b>2.2</b>	
JOB NUMBER		REV.	
N/A			
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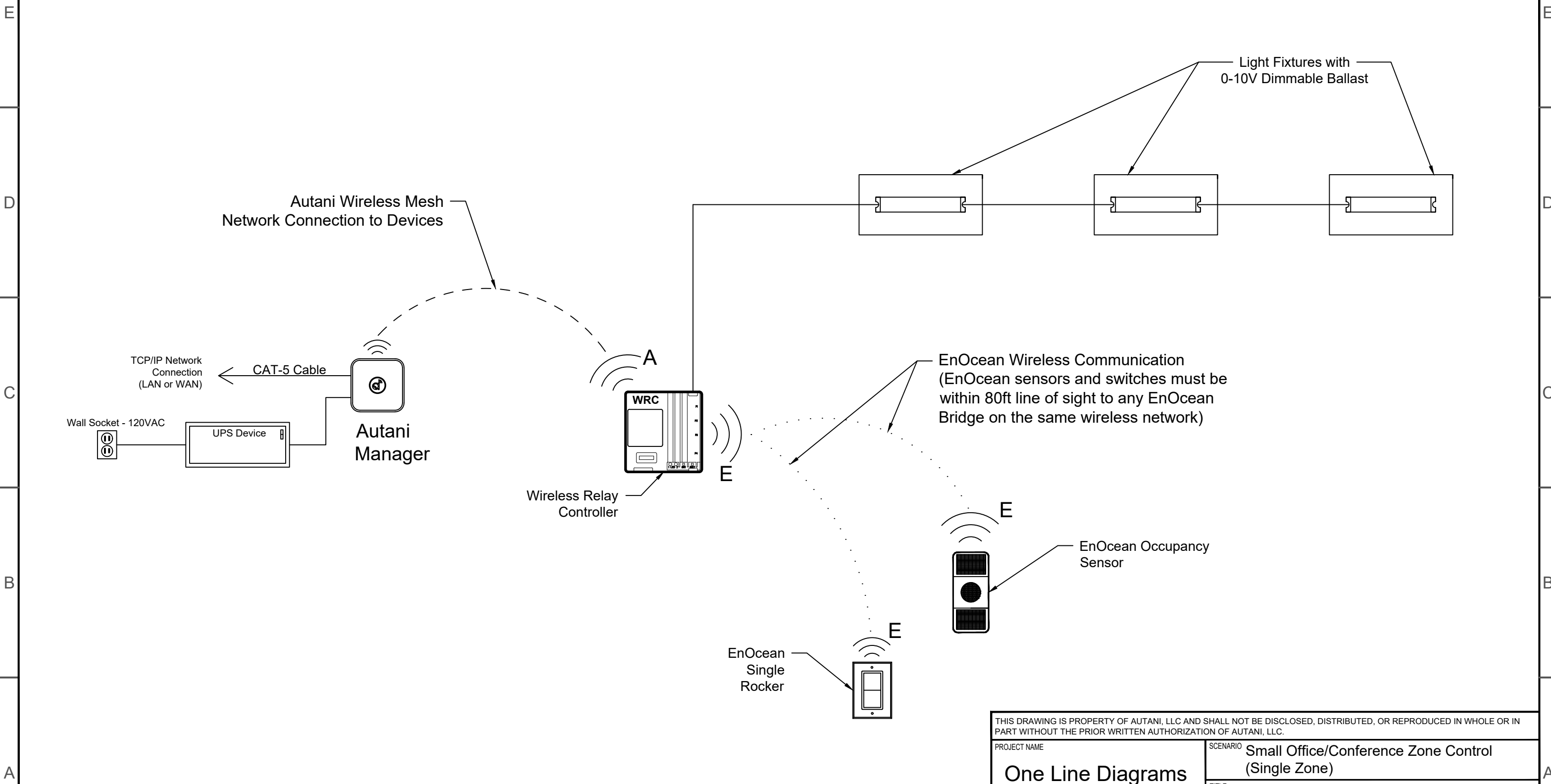
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Large Office/Conference Fixture Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
A630 MultiSensor + Glass Touch Screen Wall Switch		SIZE	
SYSTEM	JOB NUMBER	DWG. NO.	REV.
LIGHTING CONT.	N/A	<b>2.3</b>	
SCALE:		DO NOT SCALE TO DRAWING SHEET OF	



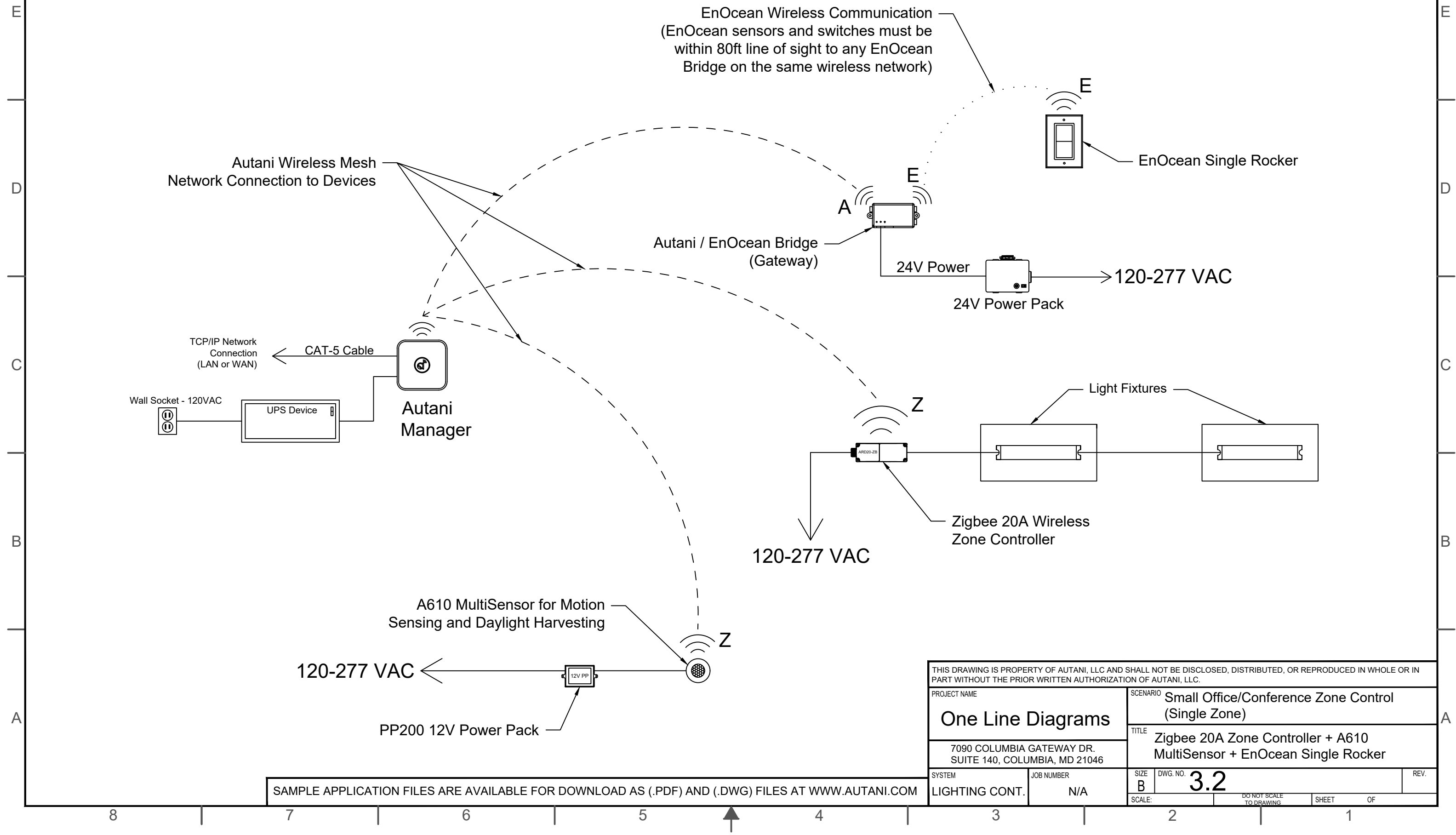
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PROJECT NAME		SCENARIO	
One Line Diagrams		Small Office/Conference Zone Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
A610 MultiSensor + AS702 Zigbee Wall Dimmer Switch + Zigbee 20A Wireless Zone Controller		SIZE	
SYSTEM		DWG. NO.	REV.
LIGHTING CONT.	JOB NUMBER	B	3.0
N/A	SCALE:	DO NOT SCALE TO DRAWING	SHEET OF

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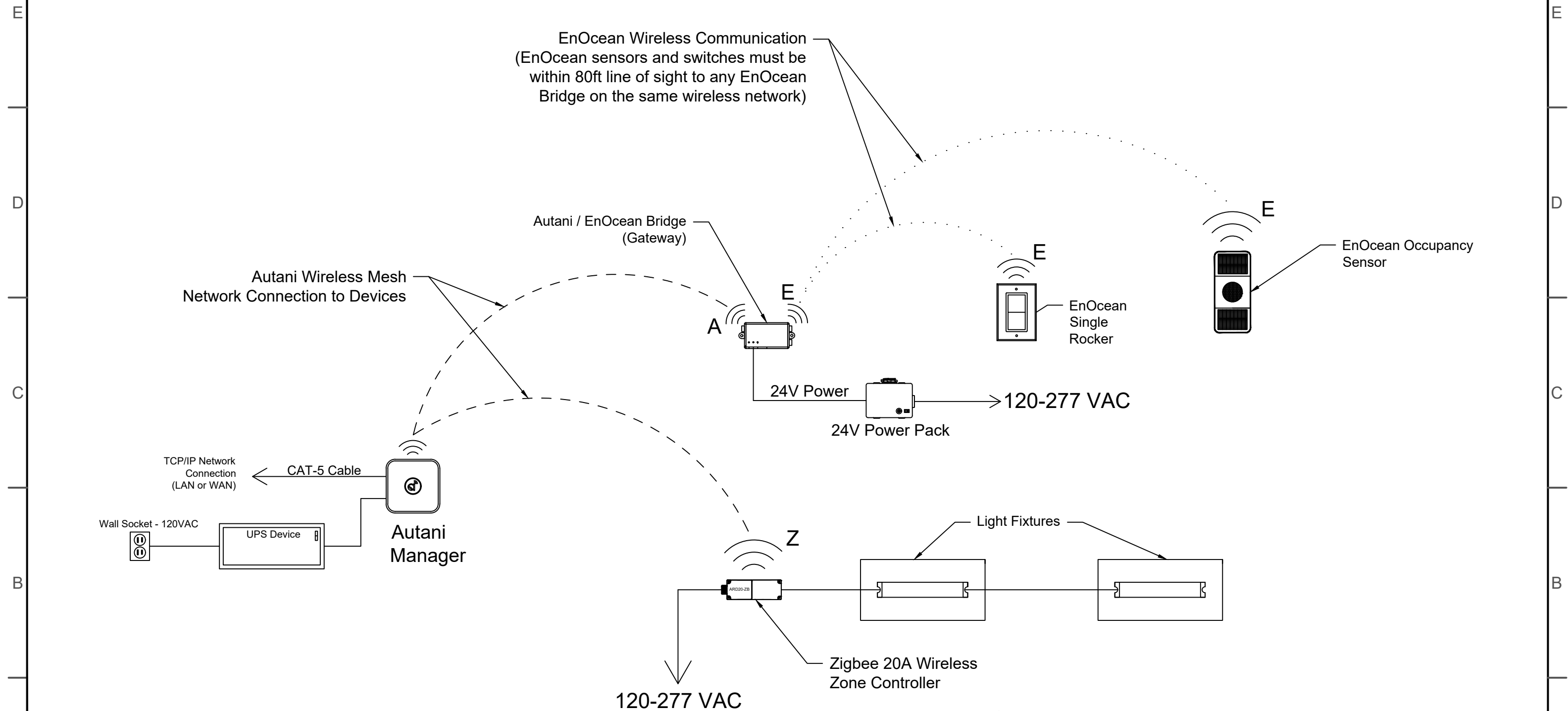
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Zone Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
WRC + EnOcean Sensors + EnOcean Single Rocker		SIZE	
SYSTEM	JOB NUMBER	DWG. NO.	REV.
LIGHTING CONT.	N/A	<b>3.1</b>	
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Zone Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
Zigbee 20A Zone Controller + A610 MultiSensor + EnOcean Single Rocker		SIZE	
SYSTEM	JOB NUMBER	DWG. NO.	REV.
LIGHTING CONT.	N/A	<b>3.2</b>	
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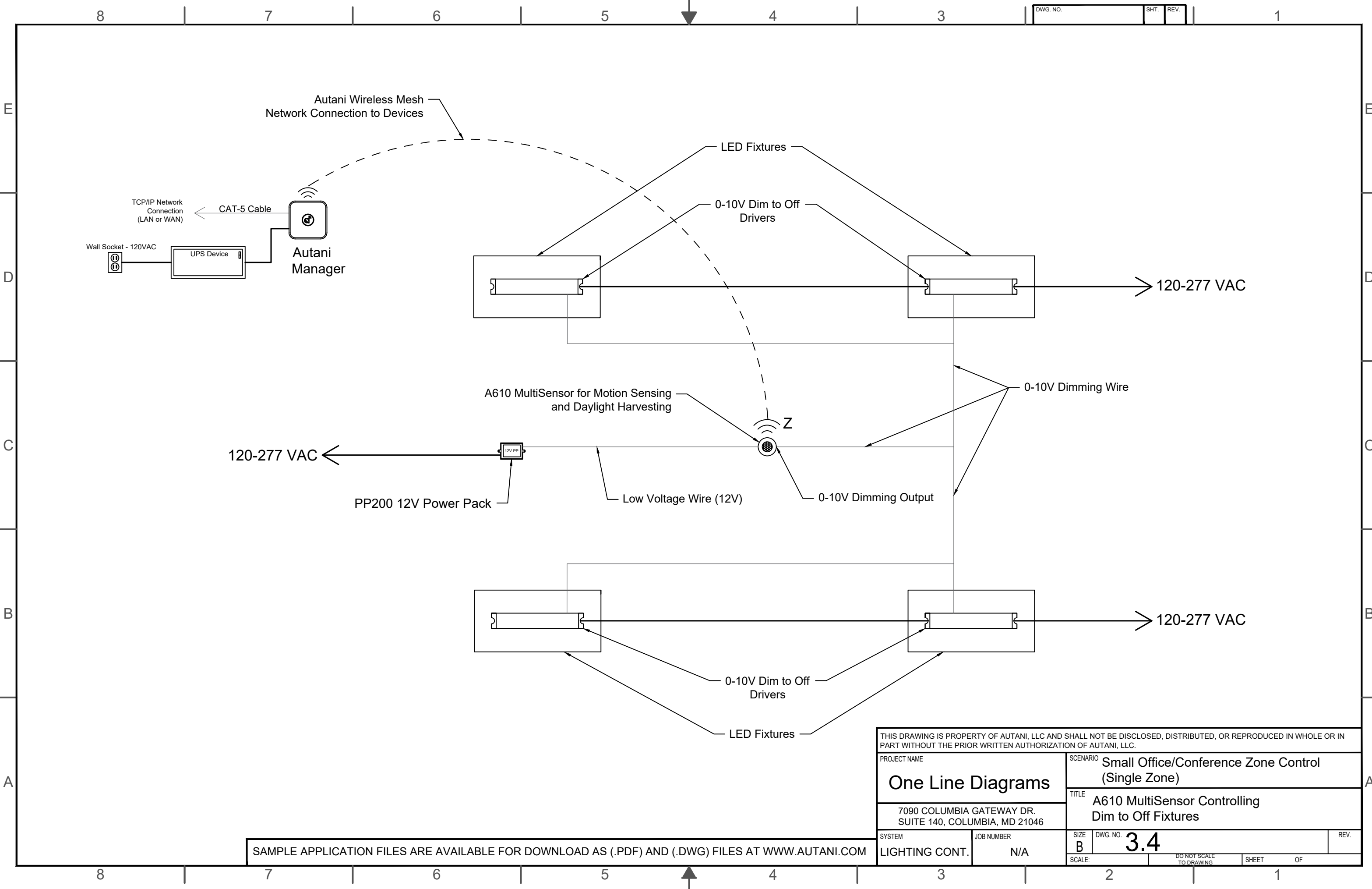
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Zone Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		Zigbee 20A Zone Controller + EnOcean Occupancy Sensor + EnOcean Single Rocker	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>3.3</b>
SCALE:		DO NOT SCALE TO DRAWING	
SHEET		OF	





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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Small Office/Conference Zone Control (Single Zone)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		A610 MultiSensor Controlling Dim to Off Fixtures	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>3.4</b>
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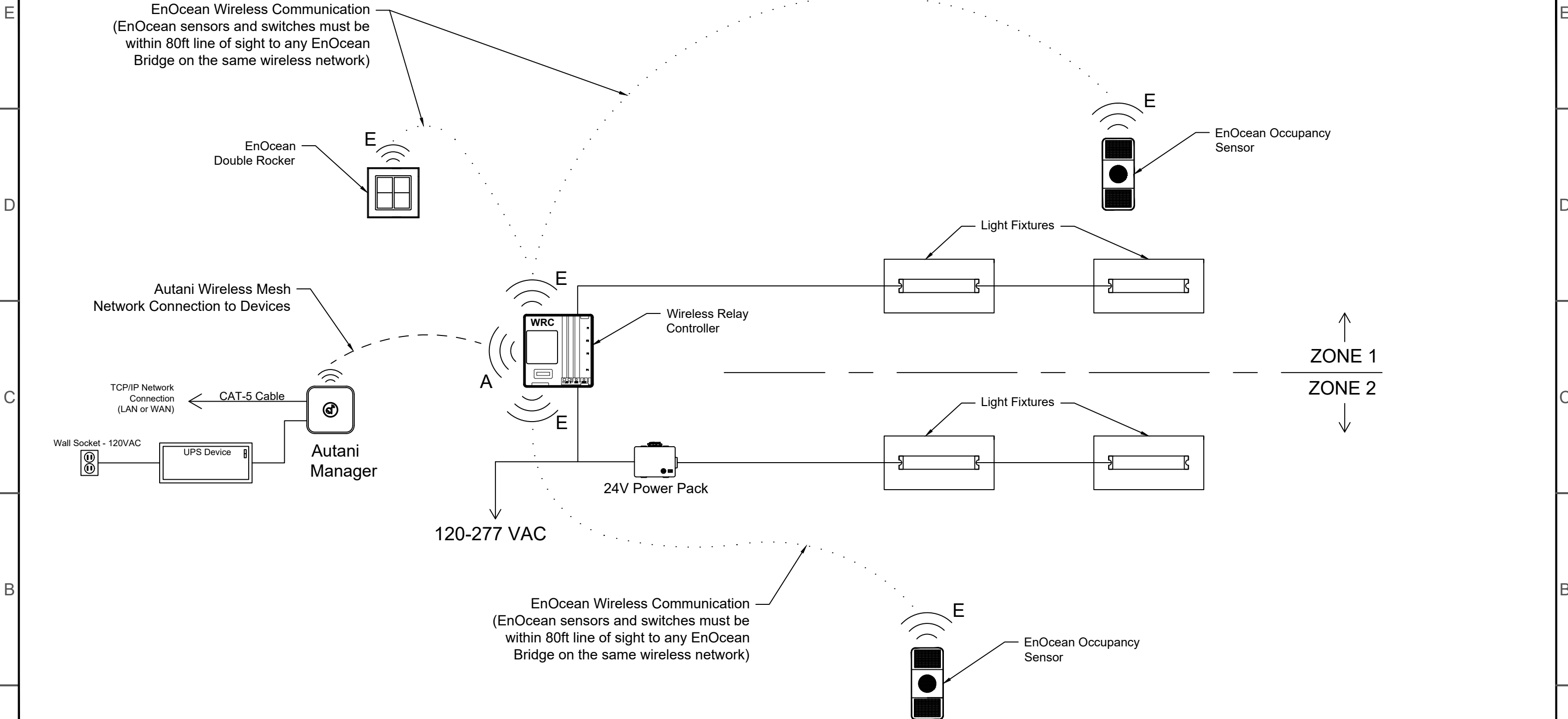
D D

C C

B B

A A

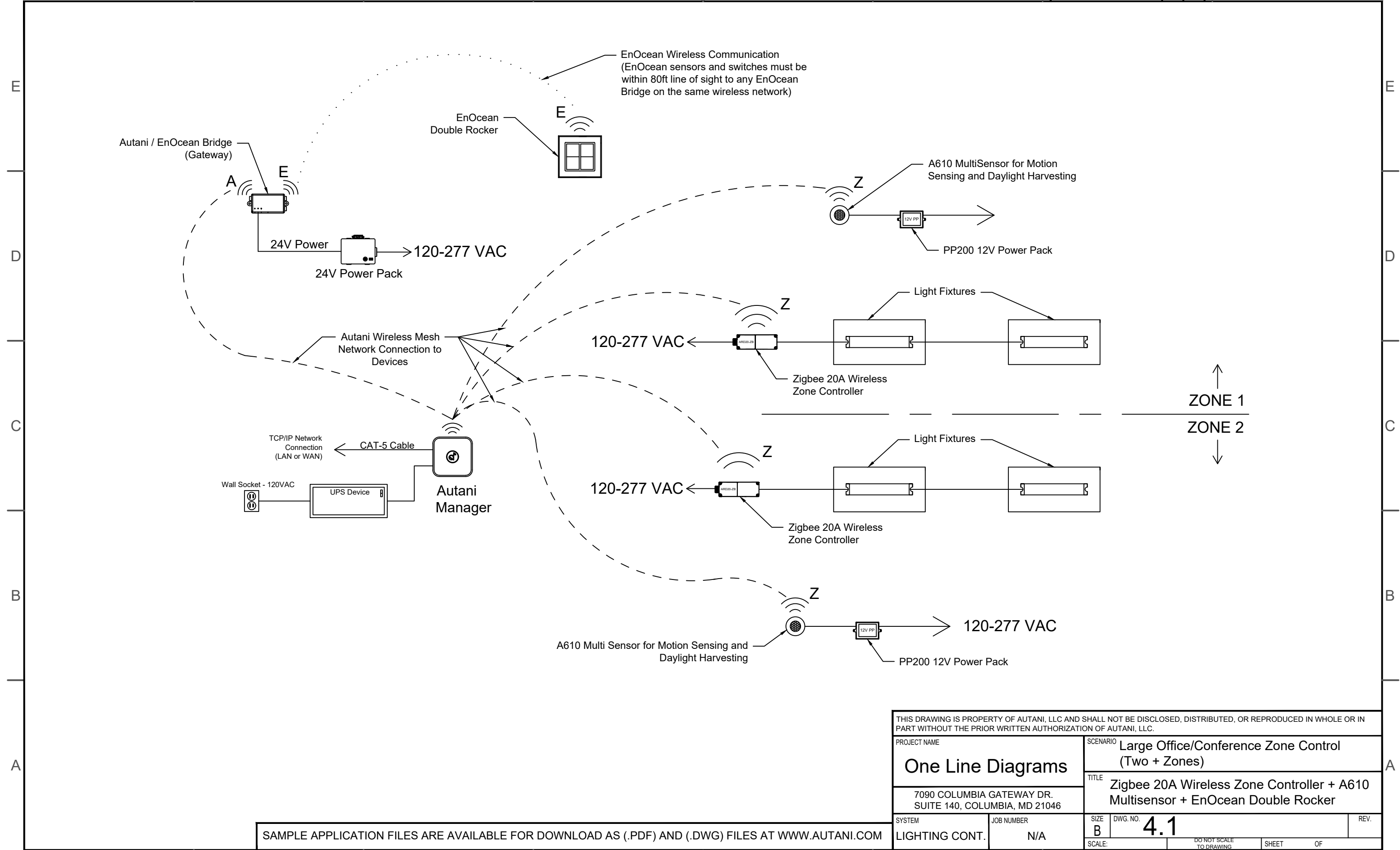
8 7 6 5 4 3 2 1



↑ ZONE 1  
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 ↓ ZONE 2

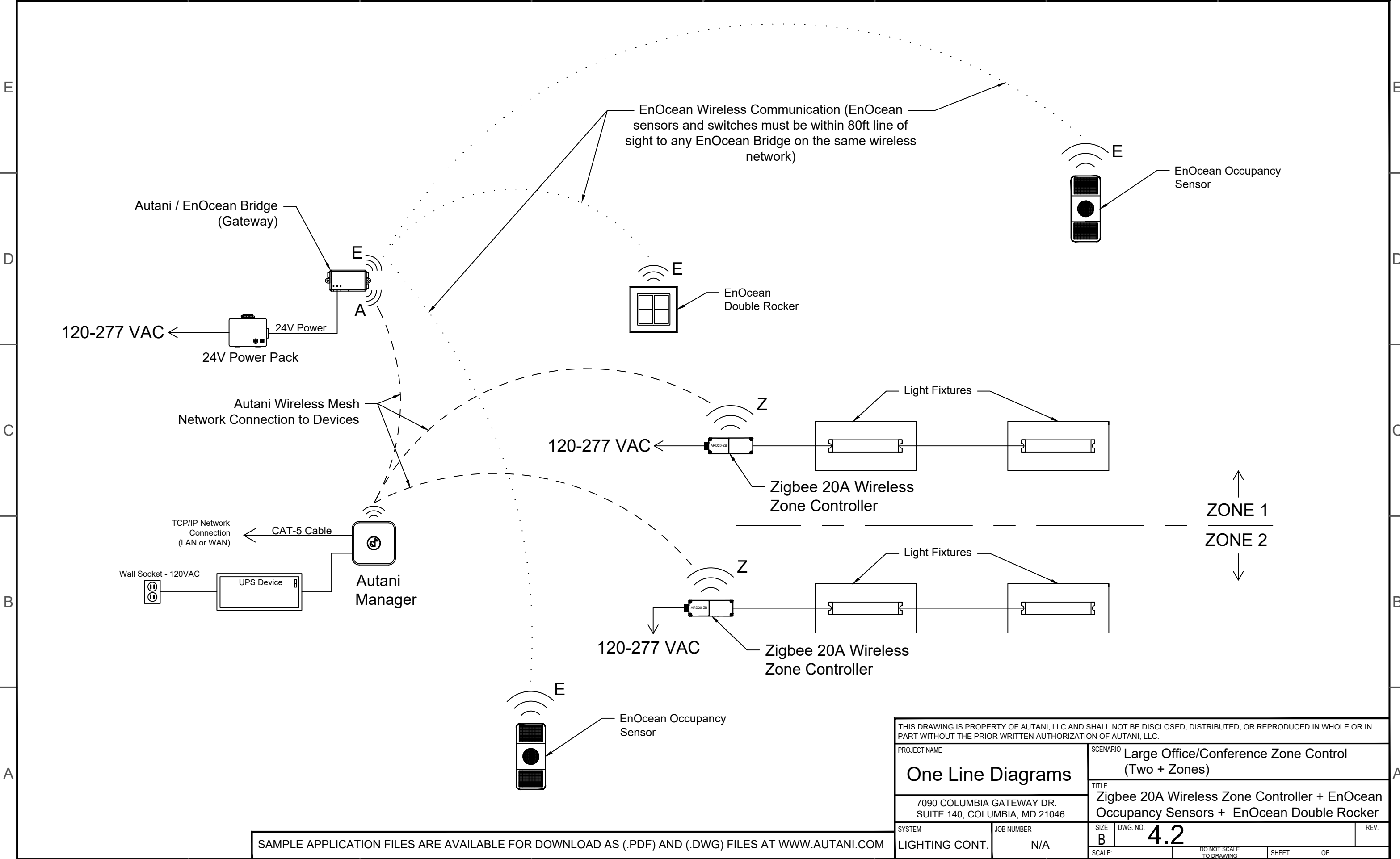
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Large Office/Conference Zone Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
WRC/Power Pack + EnOcean Occupancy Sensor + EnOcean Double Rocker		SIZE	DWG. NO.
SYSTEM		4.0	
LIGHTING CONT.		JOB NUMBER	REV.
		N/A	
SCALE:		DO NOT SCALE TO DRAWING	
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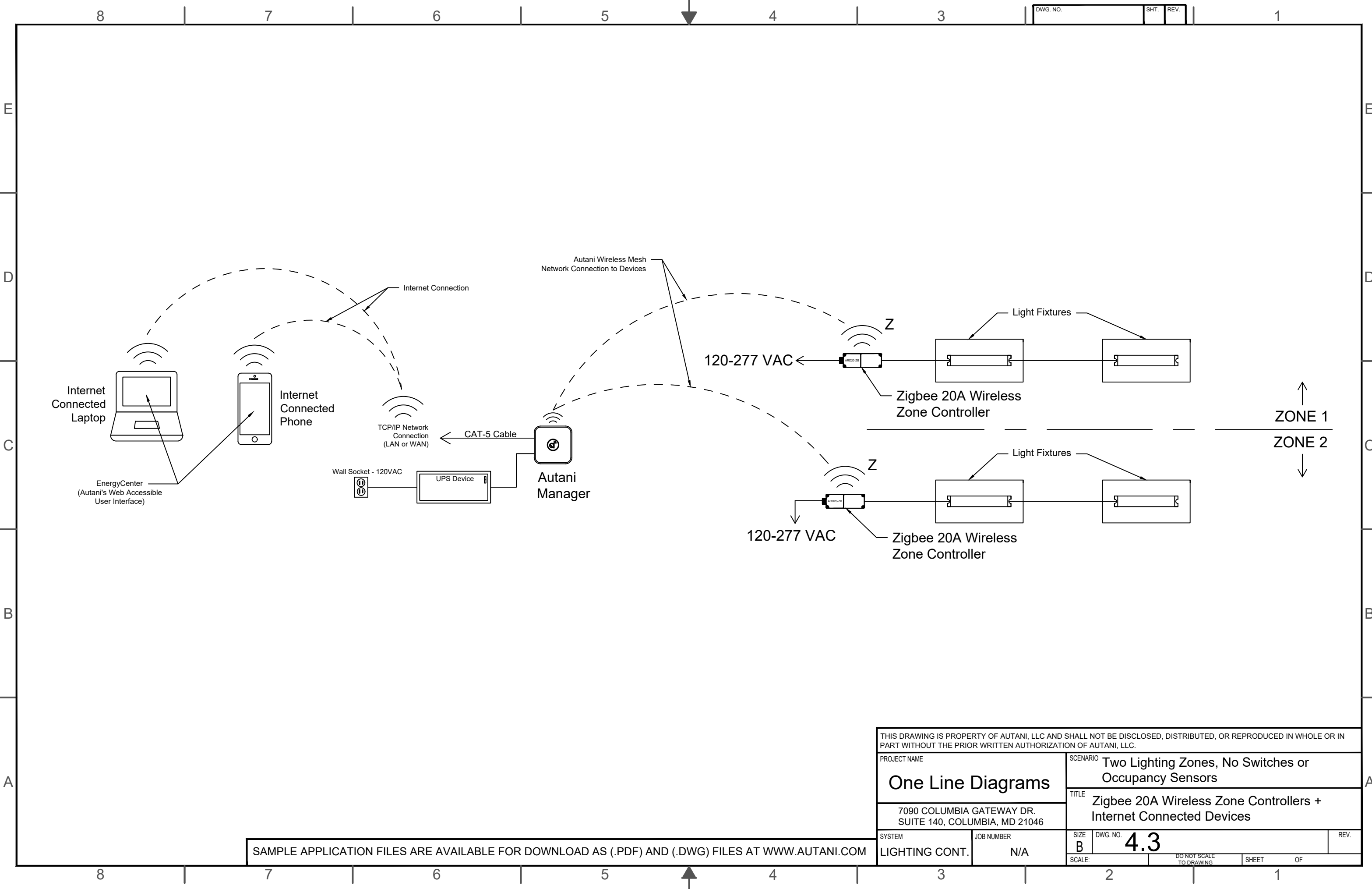
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<b>One Line Diagrams</b>		Large Office/Conference Zone Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
Zigbee 20A Wireless Zone Controller + A610 Multisensor + EnOcean Double Rocker		SIZE	
SYSTEM		DWG. NO.	REV.
LIGHTING CONT.		B	4.1
JOB NUMBER		SCALE:	
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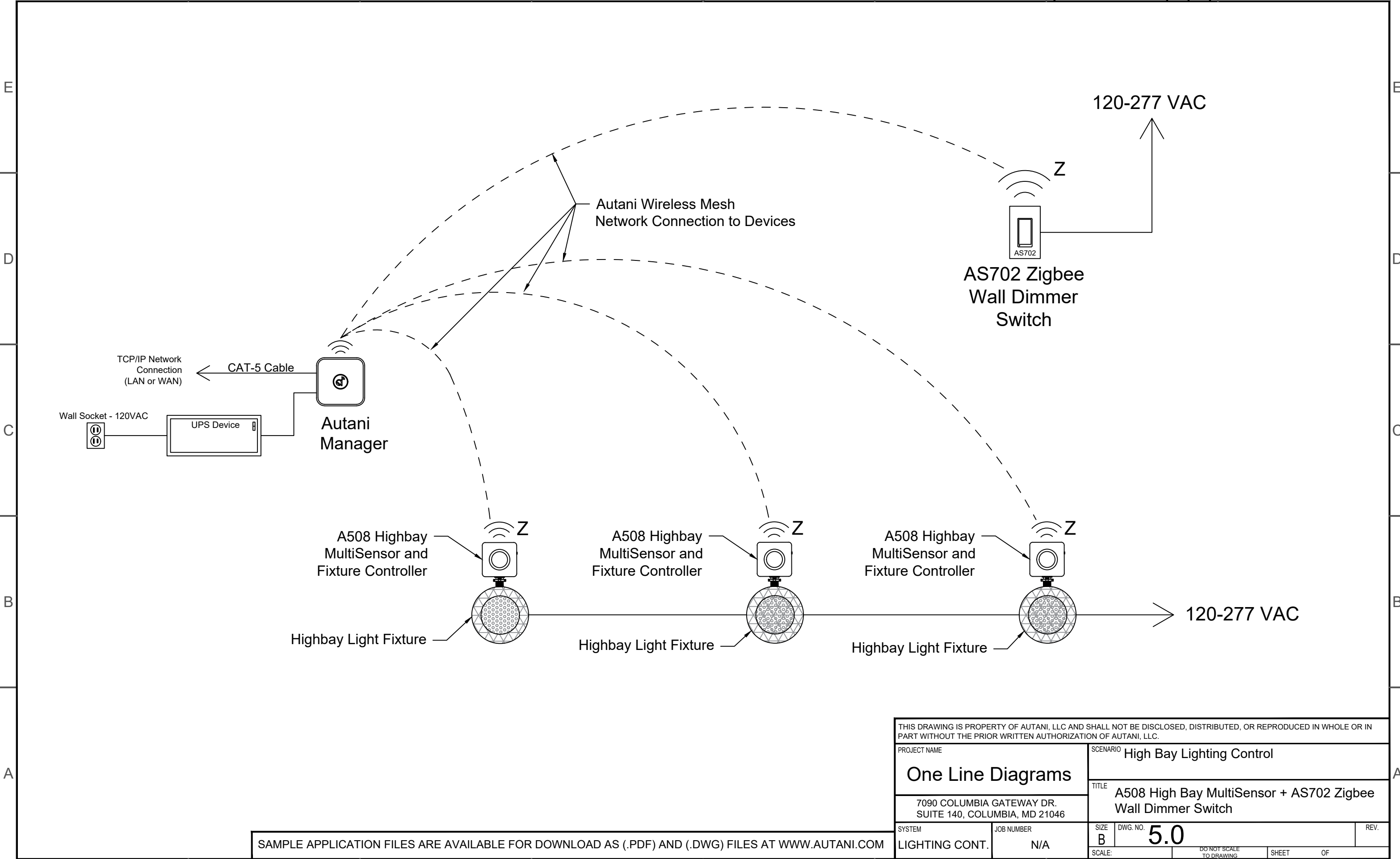
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<b>One Line Diagrams</b>		Large Office/Conference Zone Control (Two + Zones)	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
Zigbee 20A Wireless Zone Controller + EnOcean Occupancy Sensors + EnOcean Double Rocker		SIZE	
SYSTEM	JOB NUMBER	DWG. NO.	REV.
LIGHTING CONT.	N/A	<b>4.2</b>	
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF



DWG. NO.	SHT.	REV.
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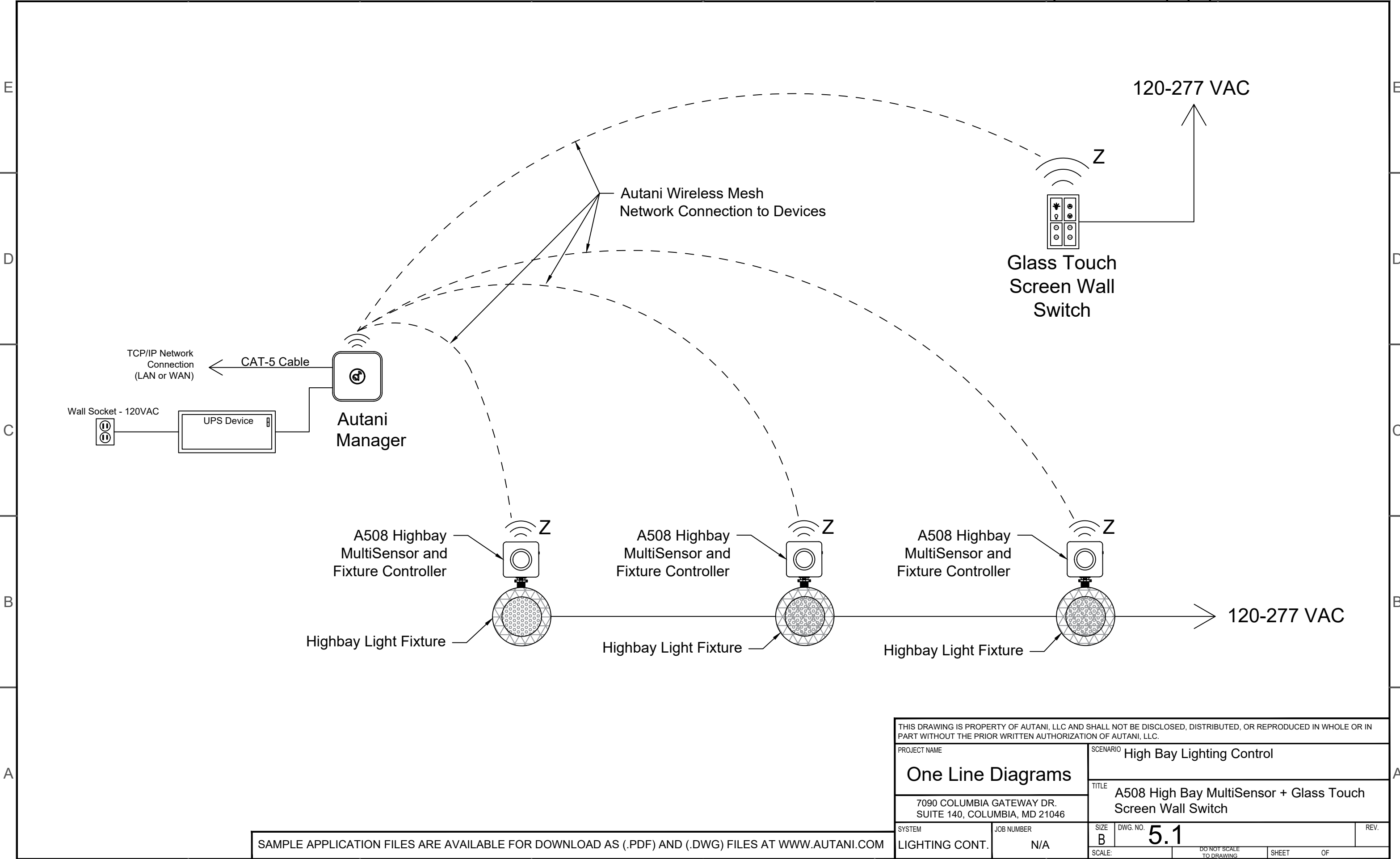
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Two Lighting Zones, No Switches or Occupancy Sensors	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		Zigbee 20A Wireless Zone Controllers + Internet Connected Devices	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>4.3</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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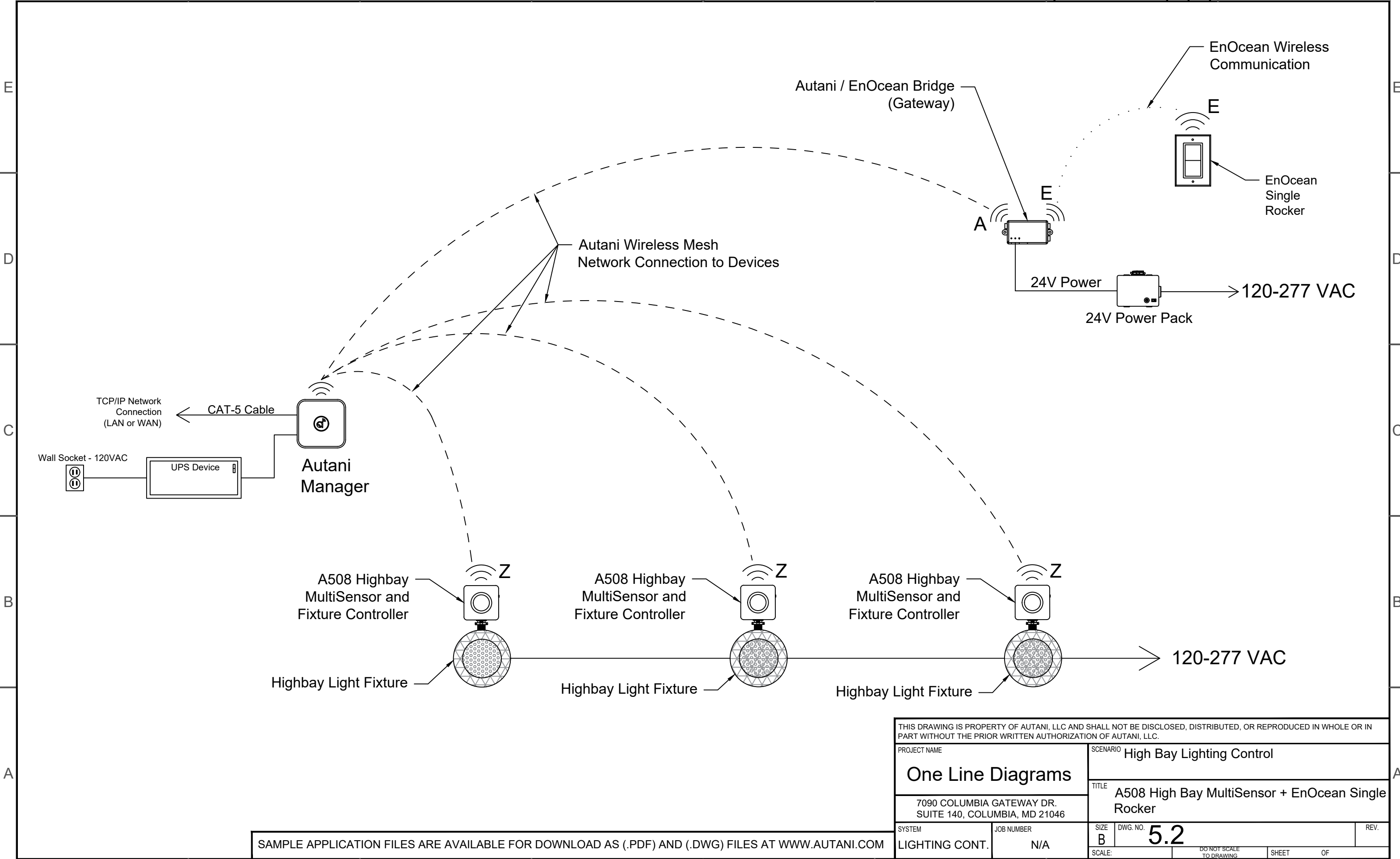
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		High Bay Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		A508 High Bay MultiSensor + AS702 Zigbee Wall Dimmer Switch	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	5.0
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF



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<b>One Line Diagrams</b>		High Bay Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		A508 High Bay MultiSensor + Glass Touch Screen Wall Switch	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>5.1</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

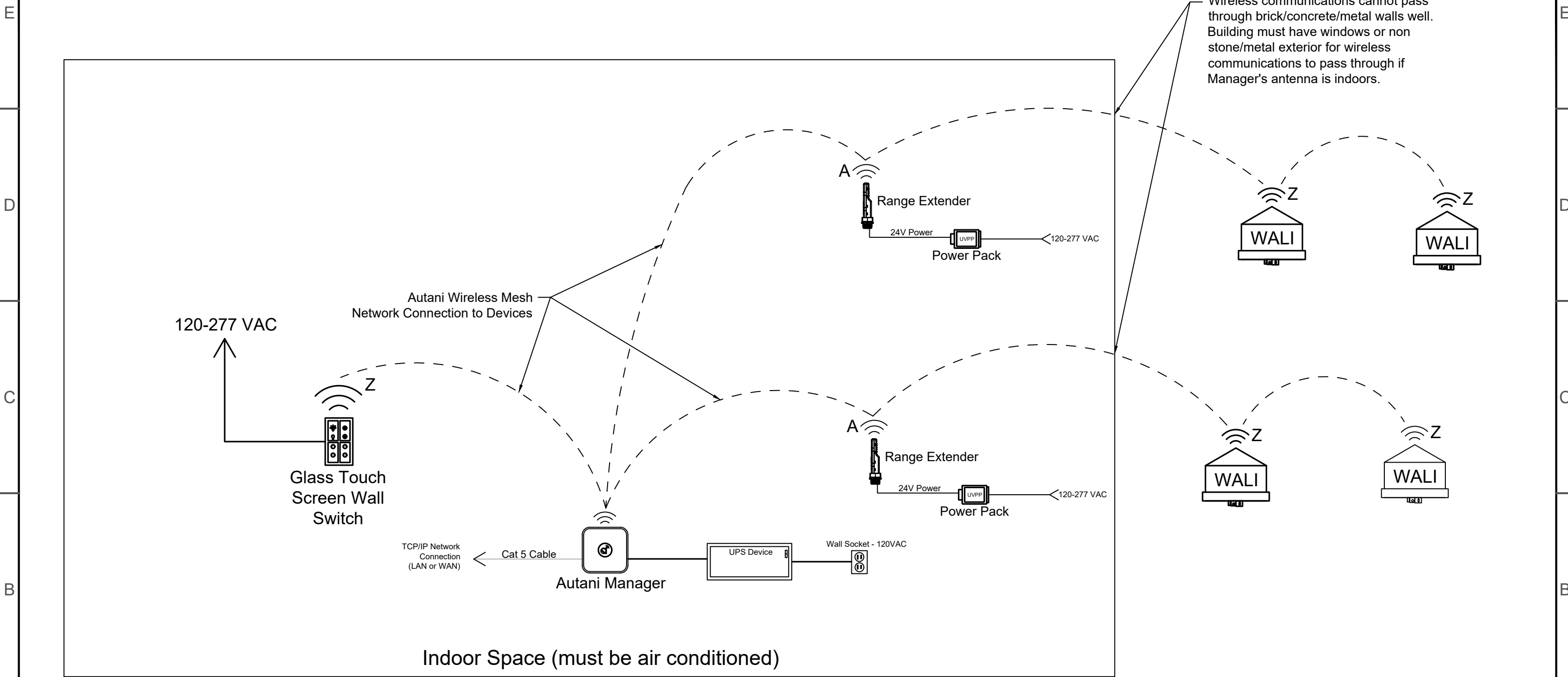
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		High Bay Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
LIGHTING CONT.		A508 High Bay MultiSensor + EnOcean Single Rocker	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	5.2
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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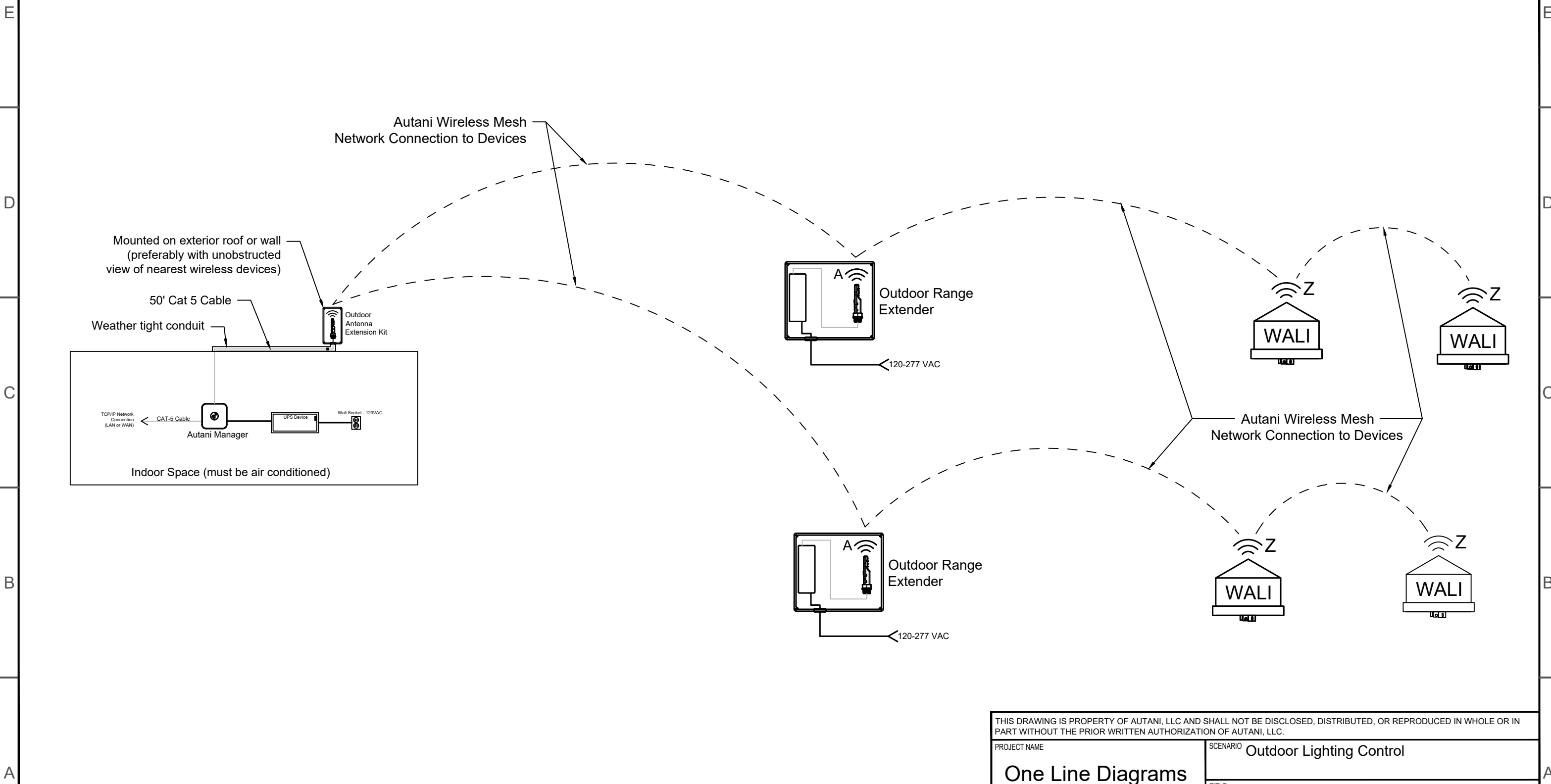




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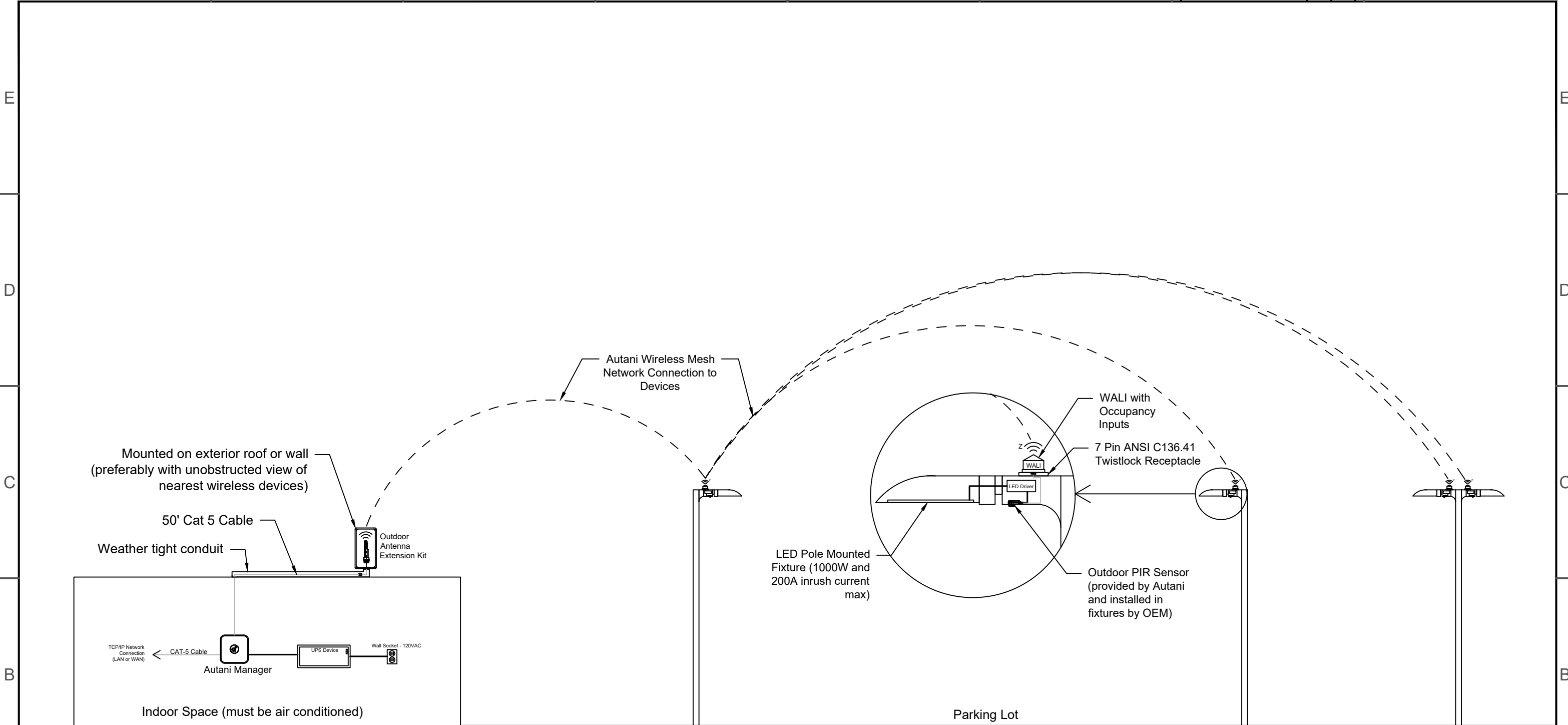
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Outdoor Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
LIGHTING CONT.		WALI + Range Extender + Glass Touch Screen Wall Switch	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
	N/A	B	6.0
SCALE:		DO NOT SCALE TO DRAWING	
SHEET		OF	

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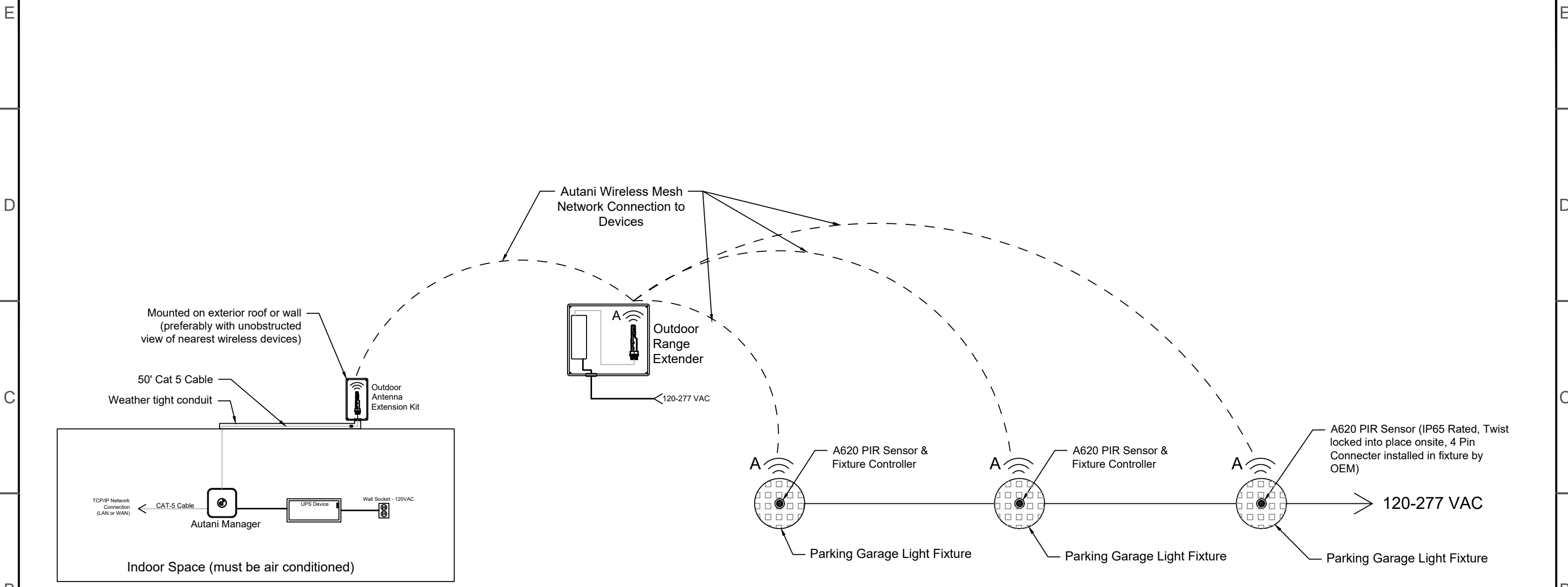
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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Outdoor Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
		WALI + Antenna Extension Kit + Outdoor Range Extenders	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>6.1</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Outdoor Lighting Control	
TITLE		TITLE	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		WALIs with Occ Sensor Inputs + Outdoor PIR Sensors + Antenna Extension Kit	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>6.2</b>
SCALE:		DO NOT SCALE TO DRAWING	SHEET OF

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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		Outdoor Lighting Control	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
LIGHTING CONT.		A620 PIR Sensor + Outdoor Range Extender + Antenna Extension Kit	
SYSTEM	JOB NUMBER	SIZE	DWG. NO.
LIGHTING CONT.	N/A	B	<b>6.3</b>
SHEET		OF	
1		1	

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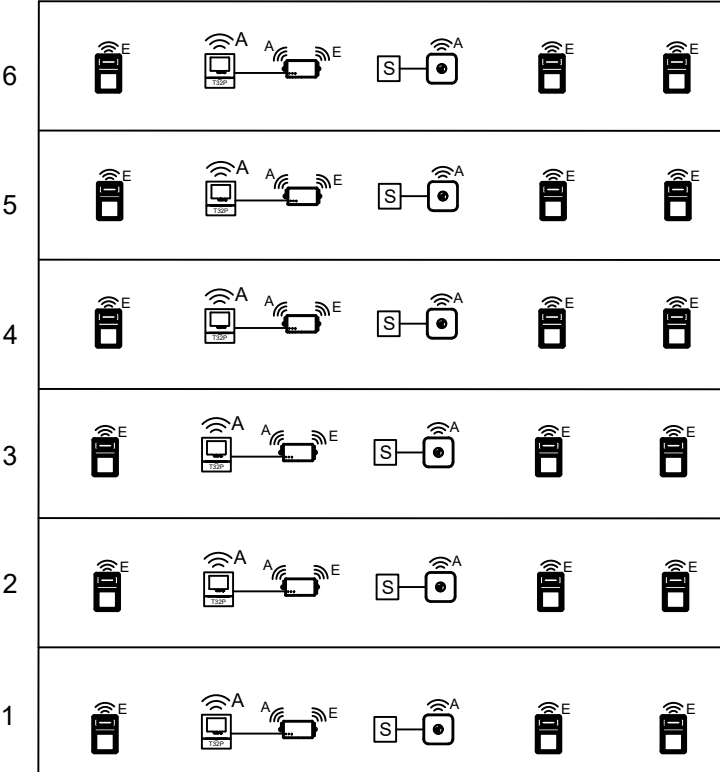
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SCALE: DO NOT SCALE TO DRAWING

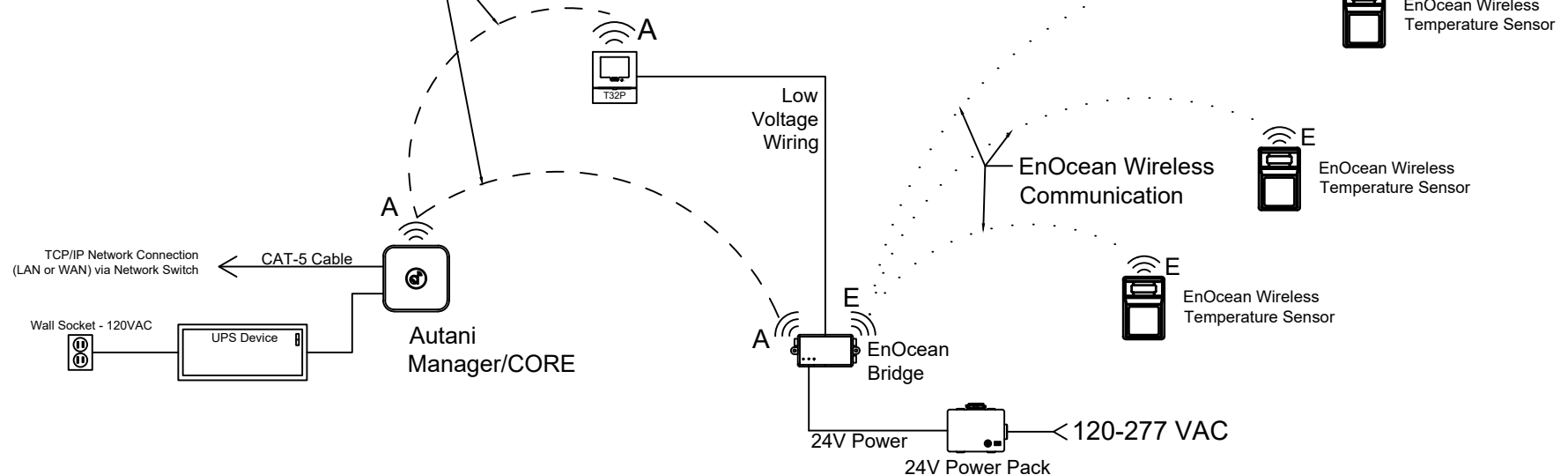
E  
D  
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E  
D  
C  
B  
A


6 Floor Building




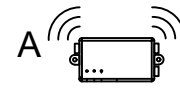
Autani Wireless Mesh Network Connection to Devices




 (Color is Black)  
**Autani Manager** -  
 Brain of Autani's network. Can manage up to 120 wireless nodes on it's own. Can use up to 7 COREs to extend network. Forms wireless mesh network with Autani and Zigbee protocols. Must be within about 100 feet line of site to nearest wireless device being managed.

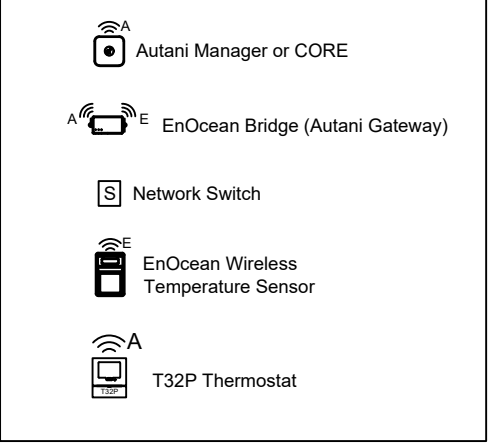
 (Color is White)  
**Autani CORE** -  
 Extends Autani Manager's capabilities by 120 wireless nodes. Also extends wireless network to more floors. Must be within about 100 feet line of site to nearest wireless device being managed.

  
**EnOcean Wireless Temperature Sensor** -  
 Wirelessly communicates to EnOcean Bridges. Must be within 80 feet Line of Sight to EnOcean Bridge for reliable strength of signal. Powered by solar cell and 3V coin cell battery.

  
**EnOcean Bridge (Autani Gateway)** -  
 Wirelessly communicates with EnOcean Temperature Sensors. Sends the wireless temperature sensor readings to T32P Thermostat via wired connection. Wired connection allows T32P to actuate HVAC Units based on wireless temperature sensor readings. Powered by 24V supplied from standard 24V Power Pack. Multiple EnOcean Bridges may be needed to ensure all EnOcean Temperature Sensors are within 80ft LOS of an EnOcean Bridge.

  
**T32P Thermostat** -  
 Wireless Thermostat. Joins Autani's Mesh Network. Can be put on schedules or occupancy controlled via EnergyCenter.

LEGEND



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PROJECT NAME		SCENARIO	
<b>One Line Diagrams</b>		<b>Multi Floor Building with Wireless Temperature Sensors on Several Floors</b>	
7090 COLUMBIA GATEWAY DR. SUITE 140, COLUMBIA, MD 21046		TITLE	
HVAC Controls Sample		SIZE	DWG. NO.
SYSTEM		7.0	
LIGHTING CONT.		JOB NUMBER	REV.
N/A		SCALE: DO NOT SCALE TO DRAWING SHEET OF	

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