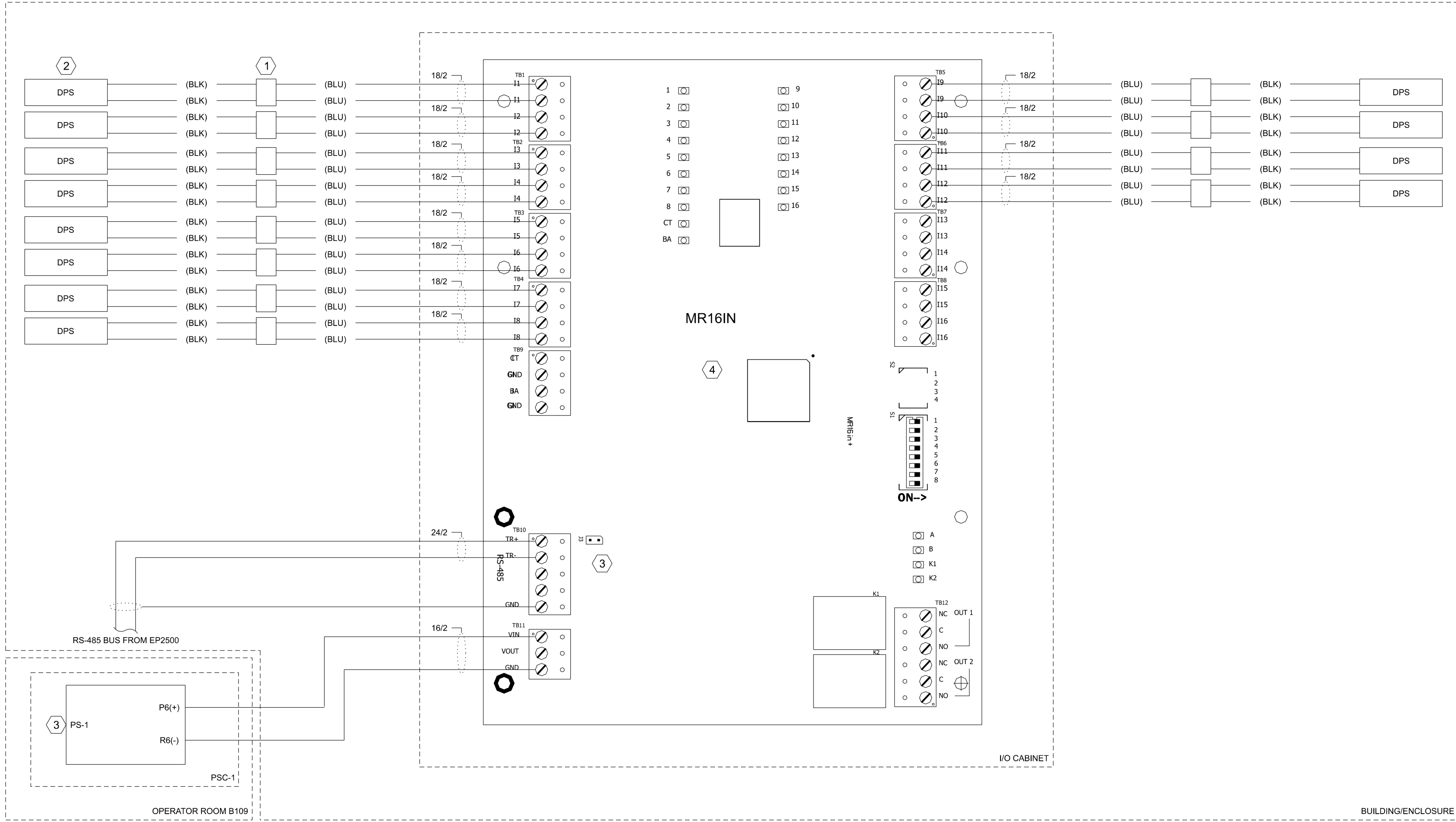




GENERAL NOTES:

- SEE DRAWING CO-209.00 FOR MOUNTING DETAILS FOR THE INPUT AND OUTPUT MODULES.
- THE POWER SUPPLY SHOWN IS AN 8 TERMINAL DEVICE, BUT ONLY THOSE RELEVANT TO THIS WIRING DIAGRAM ARE DISPLAYED HERE.
- ACTUAL NUMBER OF DPS DEVICES WILL VARY DEPENDING ON INSTALLATION LOCATION. REFER TO CO-213.00 FOR AND ACCURATE COUNT OF SWITCHES.
- REFER TO BILL OF MATERIALS ON SHEET CO-233.00 FOR ADDITIONAL DETAILS

KEY NOTES:

- RESISTOR PACK.
- DOOR POSITION SWITCH.
- PCB JUMPER USED TO TERMINATE RS-485 SERIAL BUS.
- MERCURY 16 INPUT BOARD.

ISSUED FOR PERMIT

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370 7th Avenue
SUITE 1604
New York, NY 10001

SOWINSKI
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ARCHITECTURE+ENGINEERING

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REV	DESCRIPTION	DRW BY	CHK BY	DATE
B	FINAL SUBMISSION	JDH	RAB	12/08/2022
A	INTERIM SUBMISSION	JDH	CC	09/13/2022

Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS INPUT MODULE
WIRING DIAGRAM

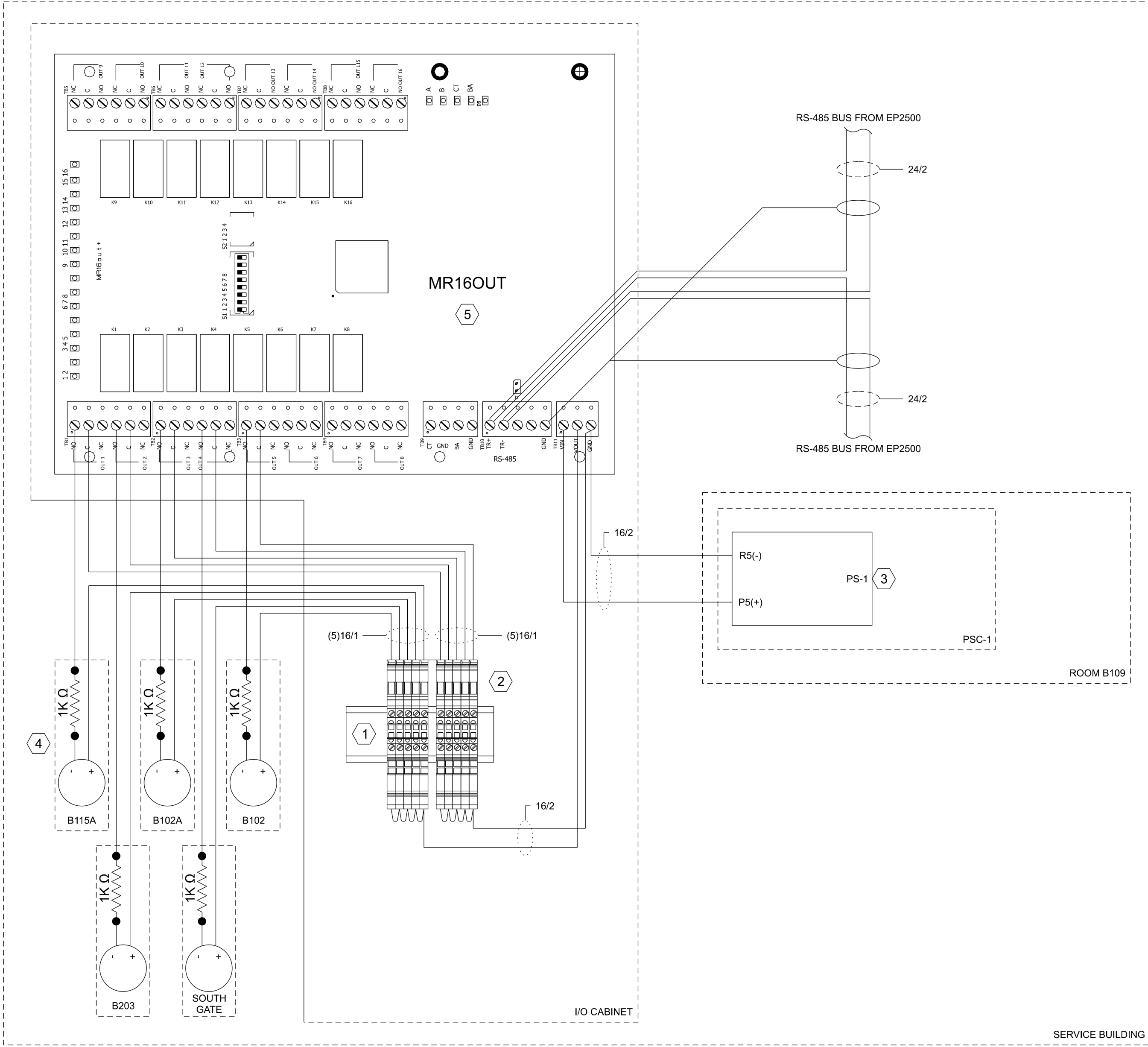
DATE	08/29/2022
PROJECT NO	105121
DRAWING BY	Author
CHECKED BY	Designer

DRAWING NO

CO-219.00

CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHPE-2022-08-29-00-MD-CO-001.rvt

1
CO-219.00 INPUT MODULE TYP WIRING DIAGRAM
TYP OF IOM-SVB-262, IOM-RH-259



1 OUTPUT MODULE WIRING DIAGRAM
CO-220.00 NOT TO SCALE

GENERAL NOTES:

- SEE DRAWING CO-209.00 FOR MOUNTING DETAILS FOR THE INPUT AND OUTPUT MODULES.
- THE POWER SUPPLY SHOWN IS AN 8 TERMINAL DEVICE, BUT ONLY THOSE RELEVANT TO THIS WIRING DIAGRAM ARE DISPLAYED HERE.
- REFER TO BILL OF MATERIALS ON SHEET CO-233.00 FOR ADDITIONAL DETAILS

KEY NOTES:

- DIN RAIL.
- TERMINAL BLOCK.
- POWER SUPPLY.
- BUZZER.
- MERCURY 16 INPUT BOARD.

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A	INTERIM SUBMISSION	JDH	CC	09/13/2022



Kiewit

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**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**COMMUNICATIONS
SYSTEMS OUTPUT
MODULE WIRING DIAGRAM**

DATE	08/29/2022
PROJECT NO	105121
DRAWING BY	Author
CHECKED BY	Designer
DRAWING NO	
CADD FILE NO	
Author: CHA-KIE-200-00-M2-CD-001.rvt	

CO-220.00

12/7/2022 11:14:11 AM

DOOR	LOCATION	INPUT MODULE/DOOR	INPUT MODULE/DOOR	DOOR TYPE	POWER SOURCE	SWITCH LOCATION	DETAIL DRAWING ID
N. GATE	EX	ACP-EX-255	MR62e	MAIN GATE	PoE	COM-RLE-303	CO-215.00
S. GATE	EX	IOM-SVB-262	MR16IN	SOUTH GATE	PS-1	-	CO-219.00
ME1	ME	ACP-ME-253	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
ME2	ME	ACP-ME-253	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
ME3	ME	ACP-ME-254	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
ME4	ME	ACP-ME-254	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
ST1	STE	ACP-STE-258	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-STE-305	CO-216.00
ST2	STE	ACP-STE-258	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-STE-305	CO-216.00
ST3	STE	ACP-STE-259	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-STE-305	CO-216.00
ST4	STE	ACP-STE-259	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-STE-305	CO-216.00
K1	RLE	ACP-RLE-256	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-RLE-303	CO-216.00
K2	RLE	ACP-RLE-256	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-RLE-303	CO-216.00
B114	SVB (Battery Room, South)	ACP-SVB-250	MR62e	SINGLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
B115A	SVB	IOM-SVB-262	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
B108	SVB	ACP-SVB-250	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
A105A	DH	ACP-SVB-252	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
B104	SVB	IOM-SVB-262	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
B103	SVB (Battery Room 1, North)	ACP-SVB-252	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-216.00
B102A	SVB (Auxiliary Room)	IOM-SVB-262	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
B101	SVB (Battery Room 2, North)	ACP-SVB-251	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-217.00
B205	SVB (Telecom Room)	ACP-SVB-251	MR62e	DOUBLE DOOR W/CARD READER	PoE	COM-SVB-301	CO-217.00
B203	SVB (L2 Corridor)	IOM-SVB-262	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104A	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104B	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104C	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104D	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104E	DH	IOM-DH-261	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104F	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104G	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104H	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104I	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104J	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A104K	DH	IOM-DH-261	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103A	RH	IOM-RH-259	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103G	RH	IOM-RH-259	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103B	RH	IOM-RH-259	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103C	RH	IOM-RH-259	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103D	RH	IOM-RH-259	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A103E	RH	IOM-RH-259	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101A	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101B	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101C	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101D	VH	IOM-VH-260	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101E	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101F	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A101G	VH	IOM-VH-260	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A102A	VH	IOM-VH-260	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A102B	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A102D	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A106B	VH	IOM-VH-260	MR16IN	SINGLE DOOR W/KEY LOCK	PS-1	-	CO-219.00
A106A	VH	IOM-VH-260	MR16IN	DOUBLE DOOR W/KEY LOCK	PS-1	-	CO-219.00

1
CO-222.00

SECURITY SYSTEM DEVICE SCHEDULE
NOT TO SCALE

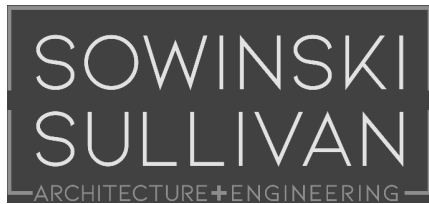
GENERAL NOTES:

1. THE DETAIL DRAWING IDs REFERENCE THE SHEETS DEPICTING TYPICAL WIRING AND INSTALLATION DETAILS.

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B	FINAL SUBMISSION	JDH	RAB	12/08/2022
A	INTERIM SUBMISSION	JDH	CC	09/13/2022
REV	DESCRIPTION	DRW BY	CHK BY	DATE

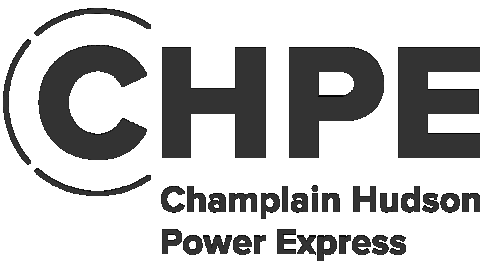
Kiewit

470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy

901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

Astoria HVDC
Converter Station
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS SECURITY
SYSTEM DEVICE
SCHEDULE

DATE

08/29/2022

PROJECT NO

105121

DRAWING BY

Author

CHECKED BY

Designer

DRAWING NO

CO-222.00

CADD FILE NO

Astoria-HVDC-CHPE
Astoria-CHPE-2022-08-01-001.rvt

GENERAL NOTES:

1. REFER TO STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.

BILL OF MATERIALS				
ITEM	DESCRIPTION	QUANTITY	MANUFACTURER	PART NUMBER
1	24VDC ELECTRIC DOOR STRIKES	TBD	TBD	TBD
2	ODSP CARD READER	TBD	HID GLOBAL	TBD
3	TWO DOOR ACCESS CONTROL MODULE	TBD	MECURY	MR6e
4	BUZZER	TBD	TBD	TBD
5	RESISTOR PACK	TBD	GRI	6644
6	REX MOTION SENSOR	TBD	TBD	TBD
7	TERMINAL BLOCKS	TBD	TBD	TBD
8	DIN RAIL	TBD	TBD	TBD
9	TRANSFER HINGE	TBD	TBD	TBD
10	24VDC, 6A, 8 OUTPUT POWER SUPPLY	TBD	SECURITRON	TBD
11	2A FUSE	TBD	TBD	TBD
12	100V/1A DIODE	TBD	DIODES INC.	1N4002
13	DOOR POSITION SWITCH	TBD	TBD	TBD
14	HEAVY DOOR POSITION SWITCH	TBD	TBD	TBD
15	ODSP CARD READER	TBD	HID GLOBAL	TBD
16	TWO DOOR ACCESS CONTROL MODULE	TBD	MERCURY	MR62e
17	MOTOR CONTROLLER	TBD	TBD	TBD
18	DOOR LOOP	TBD	TBD	TBD
19	INTELLIGENT CONTROLLER MODULE	1	MERCURY	EP2500
20	16 INPUT MODULE	4	MERCURY	MR16N
21	16 OUTPUT MODULE	1	MERCURY	MR16OUT
22	MECHANICAL CRASH BAR WITH MICROSWITCH	TBD	TBD	TBD

1

CO-223.00

ACCESS CONTROL SYSTEM
BILL OF MATERIALS

BILL OF MATERIALS				
ITEM	DESCRIPTION	QUANTITY	MANUFACTURER	PART NUMBER
1	DUAL BATTERY HARNESS	1	BOSCH	D122/D122L
2	CLASS 2 PLUG-IN TRANSFORMER 18VAC 60HZ	1	BOSCH	CX4010
3	12 VDC BATTERY	2	TBD	TBD
4	SDI2 LCD KEYPAD	2	BOSCH	TBD
5	POWER RECEPTACLE	TBD	TBD	TBD
6	MOTION SENSOR	4	BOSCH	ISN-AP1
7	INTRUSION ALARM PANEL	1	BOSCH	B5512

2

CO-223.00

INTRUSION DETECTION SYSTEM
BILL OF MATERIALS

BILL OF MATERIALS				
ITEM	DESCRIPTION	QUANTITY	MANUFACTURER	PART NUMBER
1	600 VAC, 30A, ELECTRIC DISCONNECT	TBD	SQUARE D	2510KG1
2	CAT6 BISCUIT JACK	TBD	TBD	CX4010

3

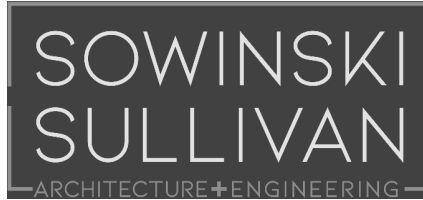
CO-223.00

SECURITY MISCELLANEOUS
BILL OF MATERIALS

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REV	DESCRIPTION	DRW BY	CHK BY	DATE



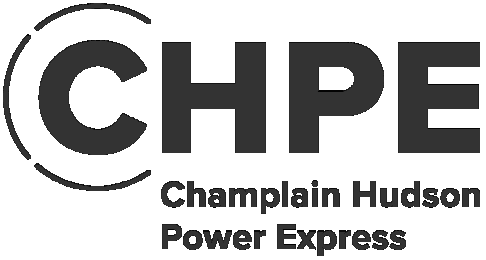
Kiewit

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Woodcliff Lake, NJ 07677

 Hitachi Energy

901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

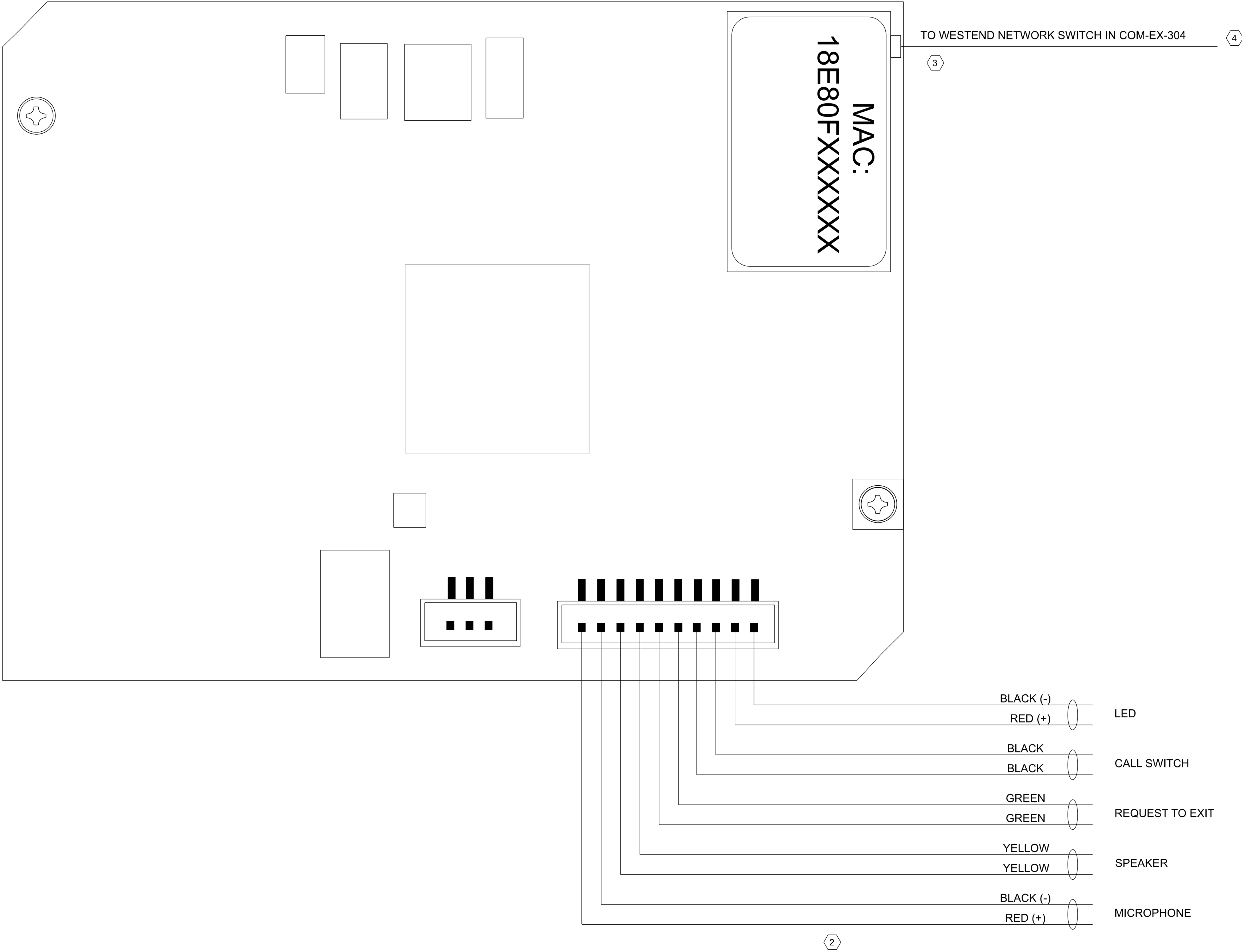
 **CHPE**
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**COMMUNICATIONS
SYSTEMS SECURITY BILL
OF MATERIALS**

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-223.00
CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHA-KIE-200-00-MD-CO-001.rvt



1 INTERCOM WIRING DETAILS
CO-224.00 NOT TO SCALE

GENERAL NOTES:

- SEE SHEET CO-225.00 FOR INTERCOM MOUNTING DETAILS.
- DUAL INTERCOMS ARE SHOWN IN THE LAYOUT BECAUSE IT IS MOUNTED ON A DUAL HEIGHT PEDESTAL FOR SEMI-TRUCK AND CAR HEIGHTS TO REACH.

KEY NOTES:

- VIKING E-10-IP-EWP
- CABLING INCLUDED WITH PRODUCT.
- CAT6A CABLE
- REFER TO SHEET CO-203.00 FOR MORE DETAILS.

ISSUED FOR PERMIT

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SUITE 1604
New York, NY 10001

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Kiewit
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Woodcliff Lake, NJ 07677

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901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT **CHPE**
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

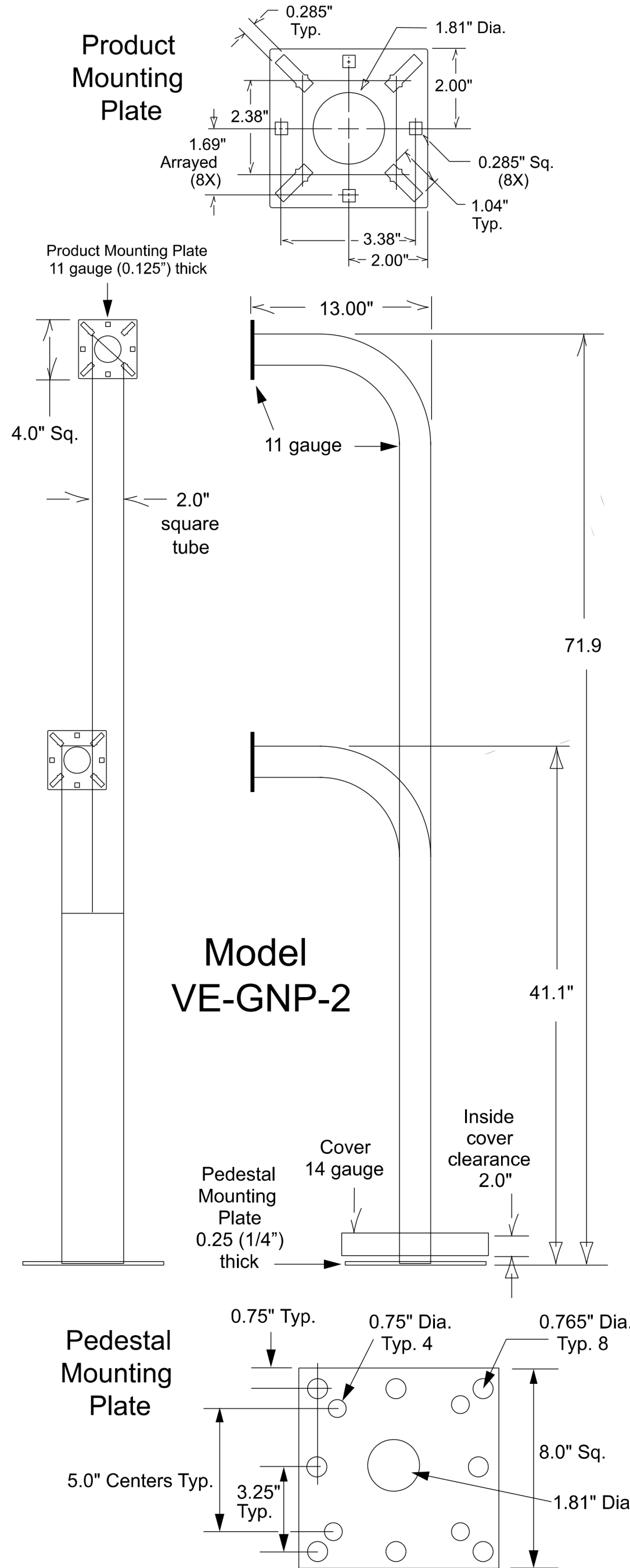
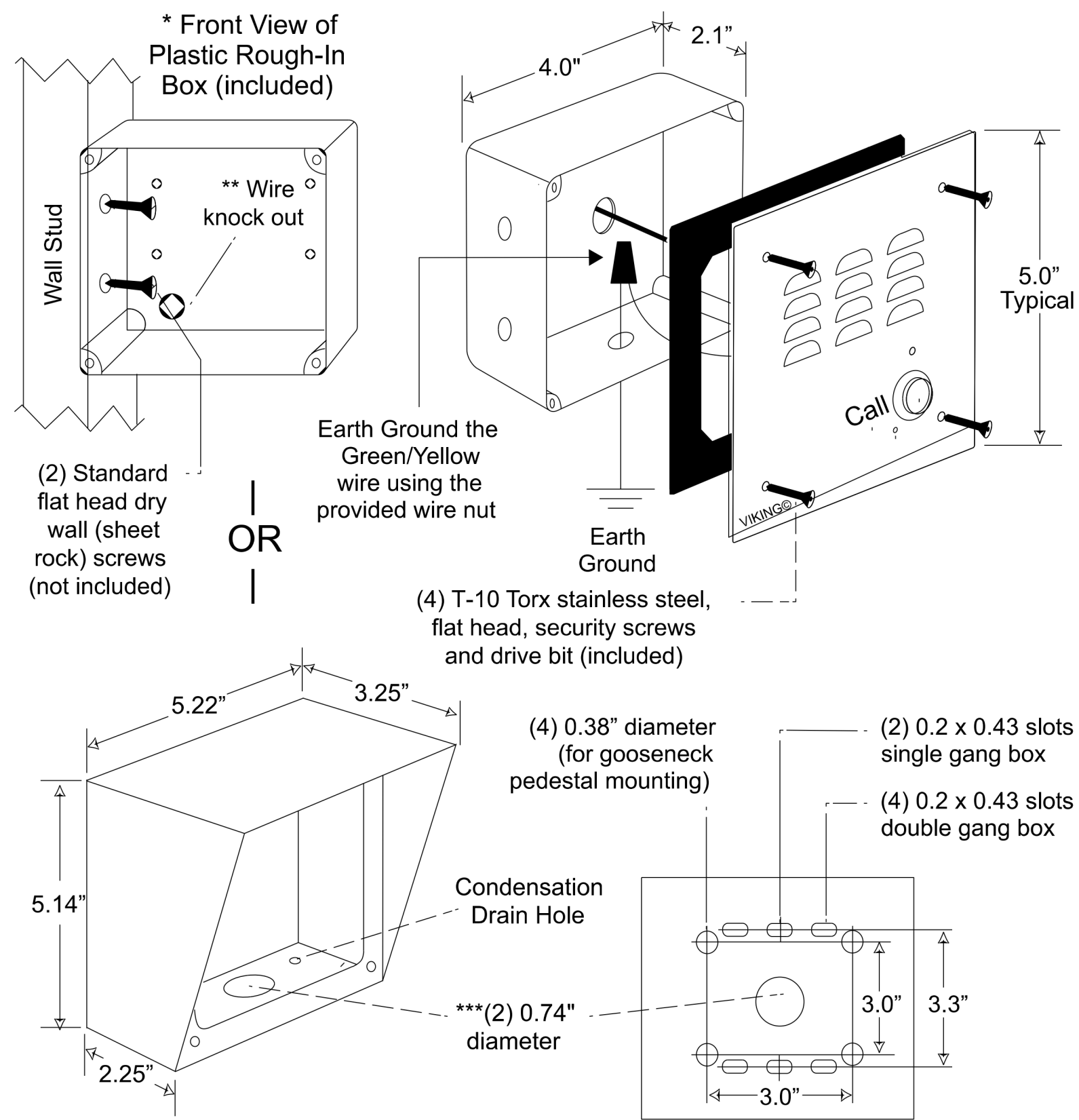
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**COMMUNICATIONS
SYSTEMS INTERCOM
WIRING DETAILS**

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer

DRAWING NO
CO-224.00

CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHA-KIE 200-00-MD-CO-001.rvt



GENERAL NOTES:

- CARD READERS WILL BE MOUNTED ON A SEPERATE DUAL HEIGHT PEDESTAL OF THE SAME MODEL, WHICH WILL BE ADJACENT TO THE INTERCOM SYSTEM AT THE MAIN GATE.
- INSTALL THE INTERCOM UNIT INTO THE SURFACE MOUNT BOX BEFORE ATTACHING TO FACE PLATE OF THE VE-GNP-2.
- ATTACH SURFACE MOUNT BOX TO THE PRODUCT MOUNTING PLATE AT BOTH DESIGNATED HEIGHTS.

KEY NOTES:

- VIKING E-10-IP-EWP
- VIKING VE-5x5
- VIKING VE-GNP-2

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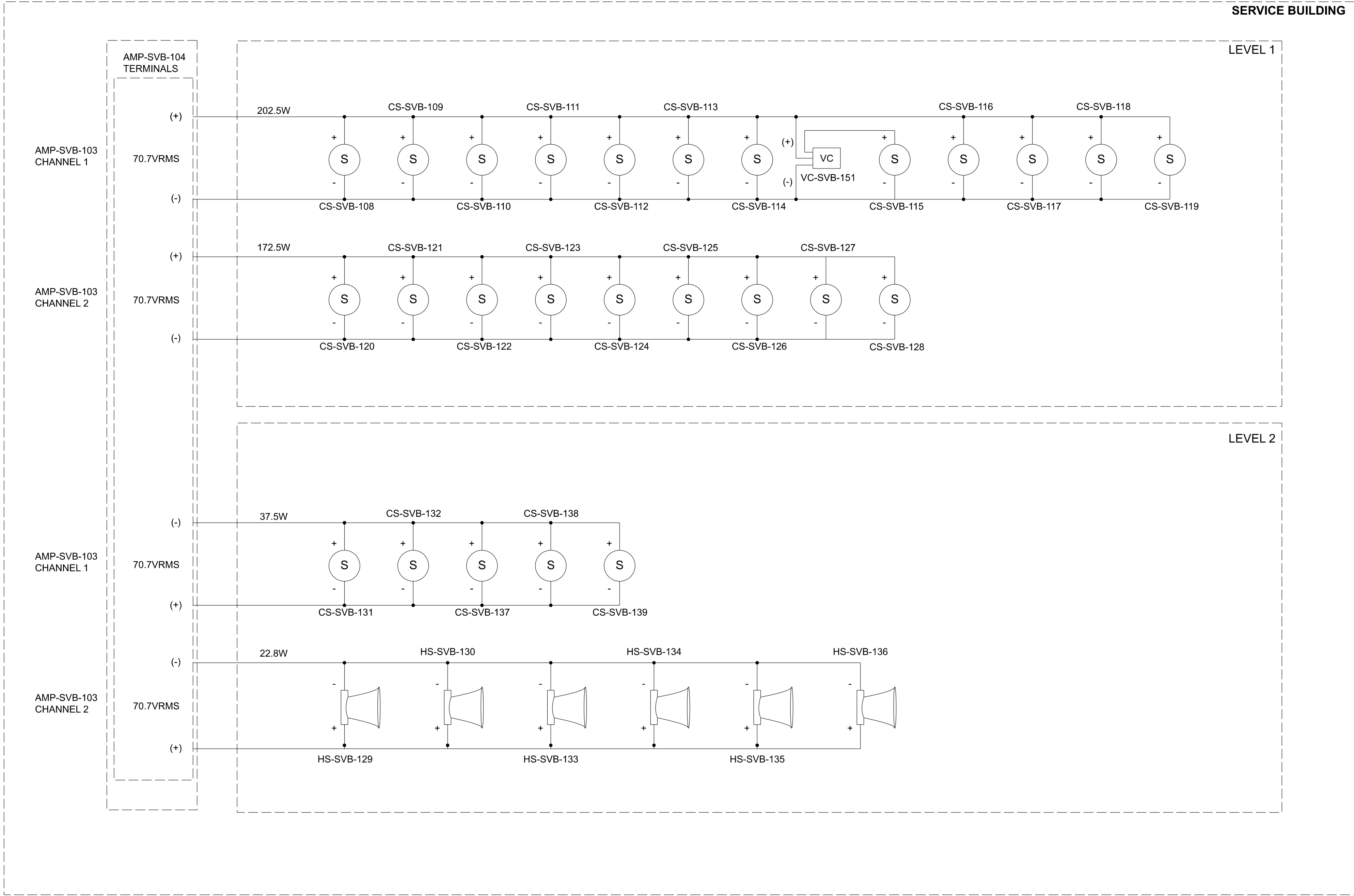
**COMMUNICATIONS
SYSTEMS
TELEPHONE/INTERMOM
DUAL HEIGHT PEDESTAL
MOUNTING**

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-225.00
CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHPE-2022-08-00-MD-CO-001.rvt

12/7/2022 3:52:37 PM

GENERAL NOTES:

- AMP-SVB-103 IS A DCI 4/300N AMPLIFIER, AND AMP-SVB-104 IS A DCI 2/600N AMPLIFIER.
- SPEAKER CABLE FOR SPEAKERS WITHIN SERVICE BUILDING IS 14AWG, LSZH, AND SHIELDED.
- SEE SHEET CO-232.00 FOR SPEAKER TAPS.
- VOLUME CONTROL IS DONE BY THE BOGEN AT35A.



1
CO-226.00

PA SYSTEM WIRING DIAGRAM (SERVICE BUILDING)

NOT TO SCALE

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REV	DESCRIPTION	DRW BY	CHK BY	DATE
B	FINAL SUBMISSION	JDH	RAB	12/08/2022
A	INTERIM SUBMISSION	JDH	CC	09/13/2022

Kiewit

470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy

901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

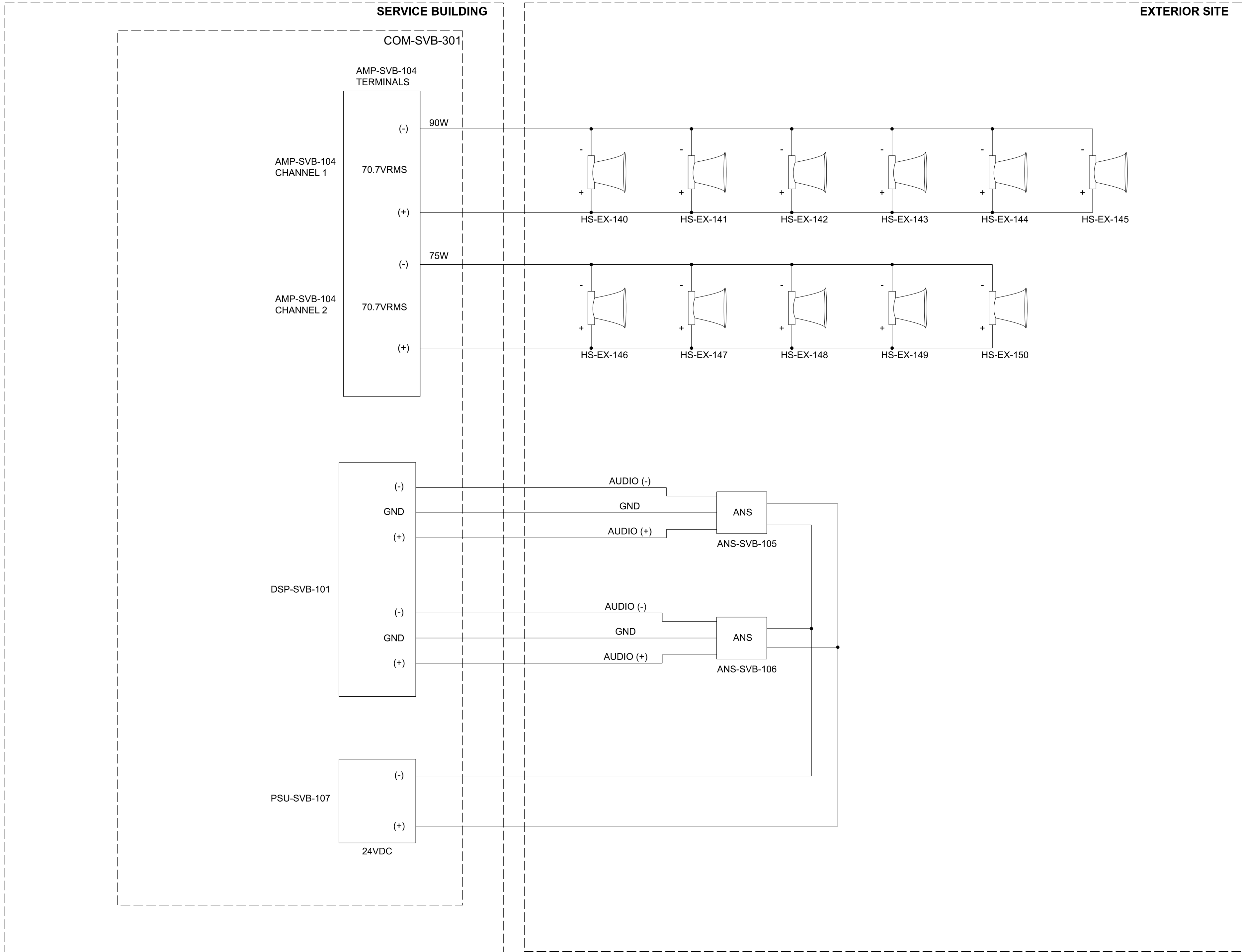
**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**COMMUNICATIONS
SYSTEMS SERVICE
BUILDING PA SYSTEM
WIRING DIAGRAM**

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-226.00
CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHA-KIE 200-00-MD-CO-001.rvt

12/7/2022 3:53:23 PM



1 PA SYSTEM WIRING DIAGRAM (EXTERIOR SITE)
CO-227.00 NOT TO SCALE

GENERAL NOTES:

- AMP-SVB-103 IS A DCI 4J300N AMPLIFIER, AND AMP-SVB-104 IS A DCI 2J600N AMPLIFIER.
- SPEAKER CABLE FOR SPEAKERS IN THE EXTERIOR SITE IS 14AWG, LSZH, AND SHIELDED.
- SEE SHEET CO-232.00 FOR SPEAKER TAPS.
- AMBIENT NOISE SENSOR SHALL BE THE PZM-11-LL-WR.

ISSUED FOR PERMIT

Engineering and Land Surveying, P.C.
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New York, NY 10001

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Raleigh, North Carolina 27606

PROJECT
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Champlain Hudson
Power Express
Astoria HVDC Converter Station
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS EXTERIOR SITE
PA SYSTEM WIRING
DIAGRAM

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-227.00
CADD FILE NO
Astoria-CHPE-2022-08-29-00-MD-CO-001.rvt

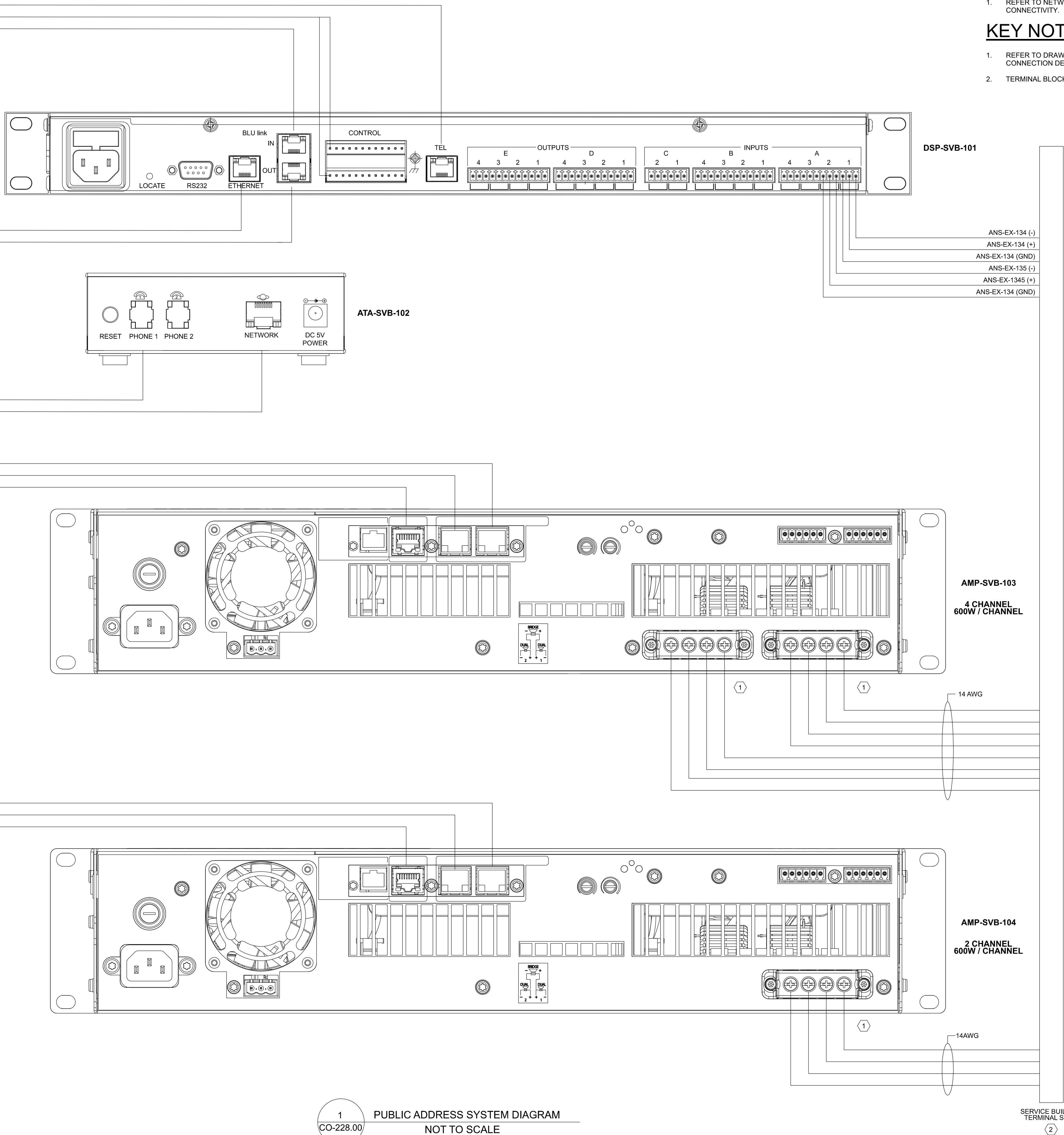
ATA-SVB-102 (PHONE 1)
FIRE MUTE
AMP-SVB-102 (BLU LINK OUT)

TO NETWORK SWITCH #1
TO AMP-SVB-102 (BLU LINK IN)

FROM DSP-SVB-101 (TEL)
TO NETWORK SWITCH #1

DSP-SVB-101 (BLU LINK IN)
DSP-SVB-101 (BLU LINK OUT)
TO NETWORK SWITCH #1

DSP-SVB-101 (BLU LINK IN)
AMP-SVB-103 (BLU LINK OUT)
TO NETWORK SWITCH #1



1 PUBLIC ADDRESS SYSTEM DIAGRAM
CO-228.00 NOT TO SCALE

GENERAL NOTES:

1. REFER TO NETWORK DRAWINGS FOR SWITCH LOCATION AND PORT CONNECTIVITY.

KEY NOTES:

1. REFER TO DRAWING CO-226.00 AND CO-227.00 FOR AMPLIFIER CONNECTION DETAILS.
2. TERMINAL BLOCKS LOCATED WITHIN CABINET COM-SVB-301

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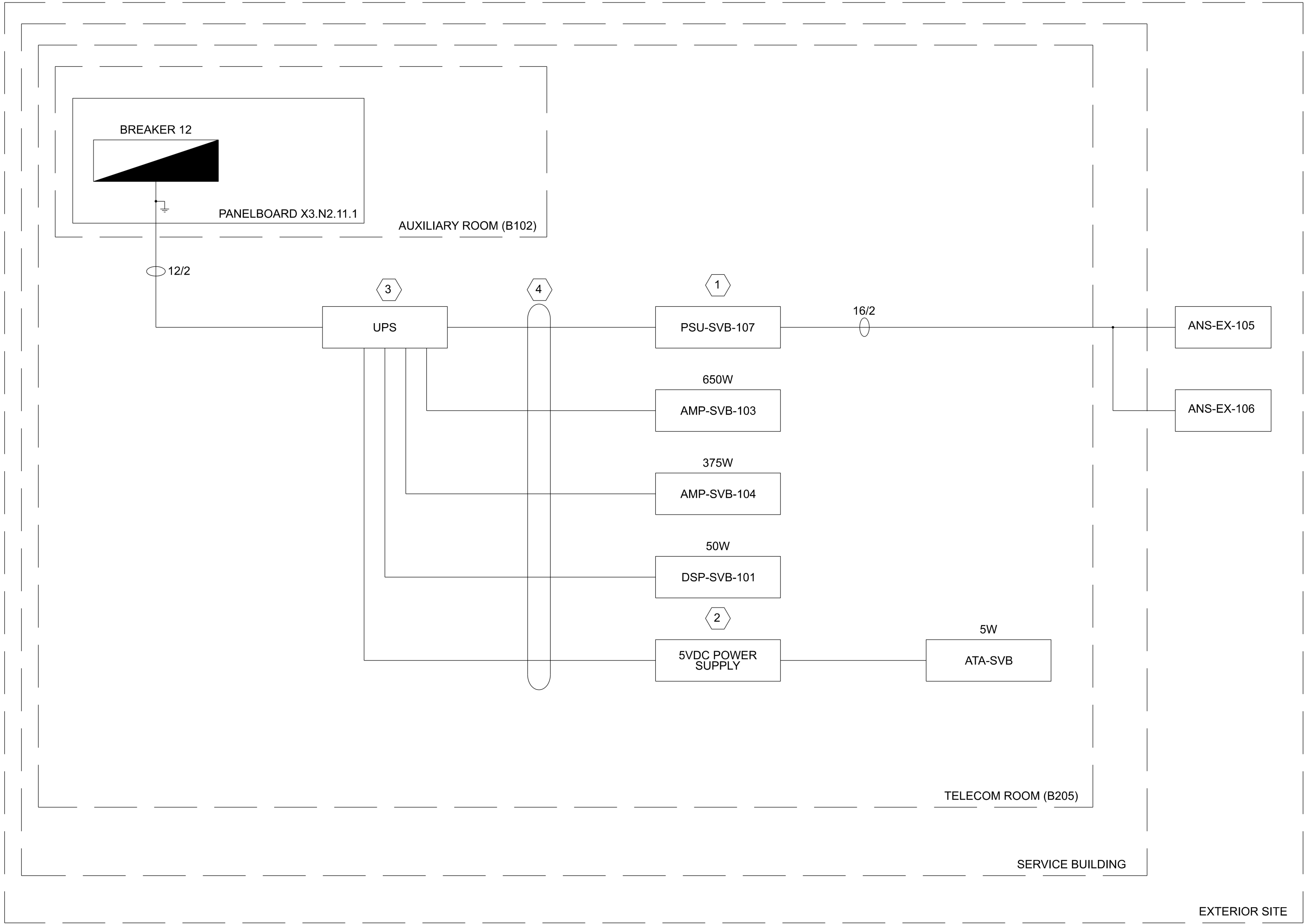
PROJECT
CHPE
Champlain Hudson
Power Express

Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS PUBLIC
ADDRESS SYSTEM
DIAGRAM

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-228.00
CADD FILE NO
Astoria/CHPE/CO-228.00-MD-CO-001.rvt



1 PA POWER SUPPLY DIAGRAM
CO-229.00 NOT TO SCALE

GENERAL NOTES:

- SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION IN REGARDS BREAKER WIRING AND PANELBOARD SCHEDULES.

KEY NOTES:

- ACOPIAN W24LTU3000.
- THIS IS PROVIDED WITH THE CISCO ATA-191.
- TRIPP LITE 3kVA (2.88kW) UPS.
- POWER CORDS INCLUDED WITH RESPECTIVE DEVICE.

ISSUED FOR PERMIT

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Kiewit 470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy 901 Main Campus Drive
Raleigh, North Carolina 27606

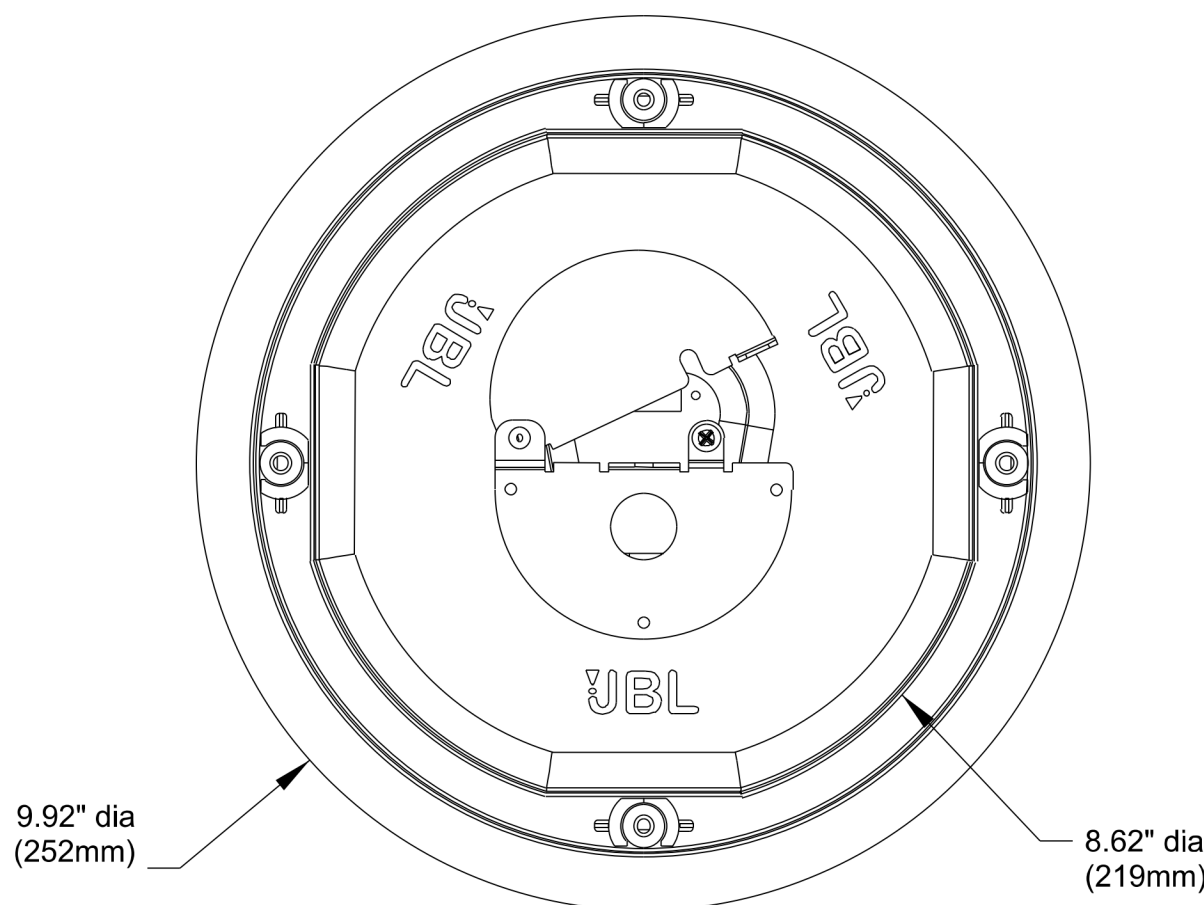
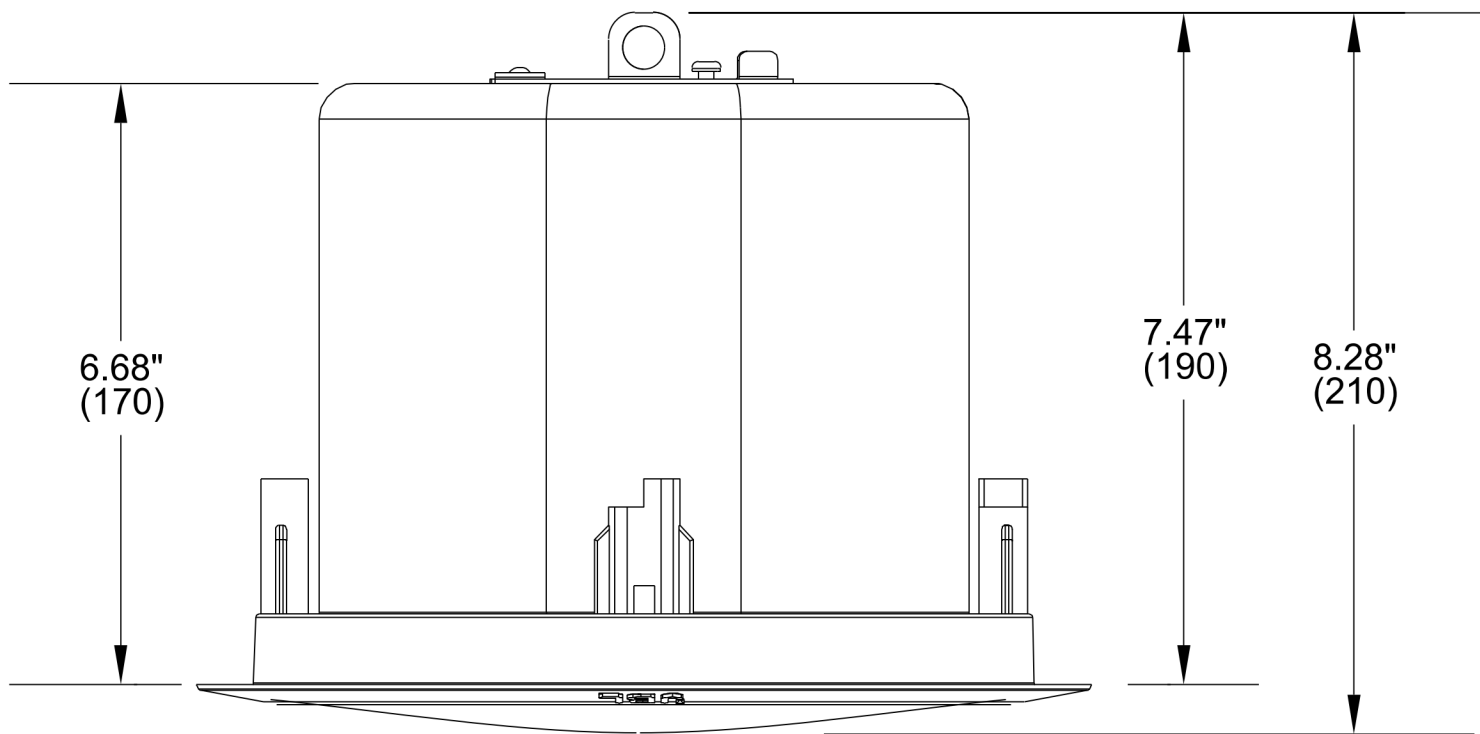
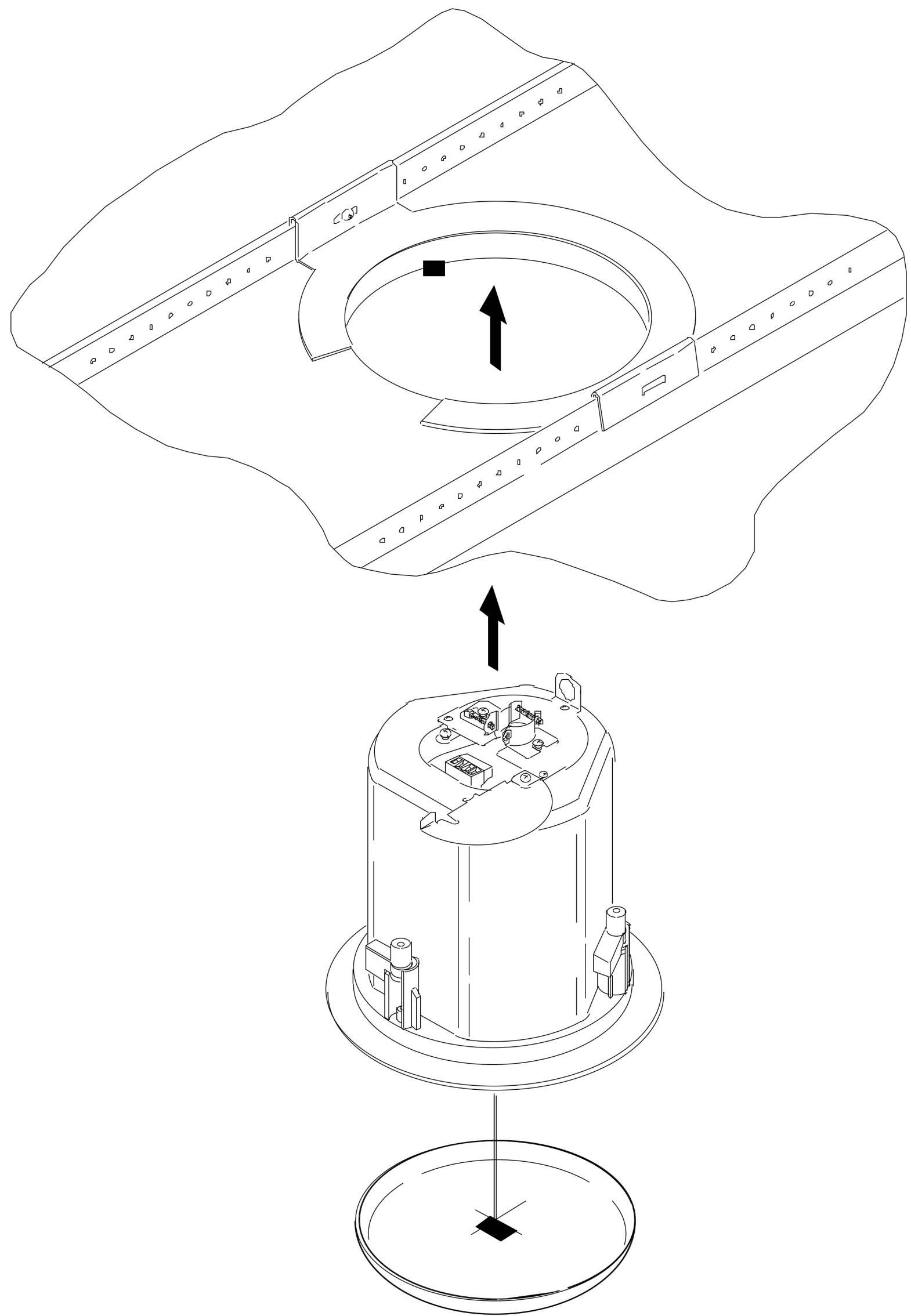
PROJECT
CHPE
Champlain Hudson
Power Express
**Astoria HVDC
Converter Station**
31-45 20th Avenue, Astoria, Queens NY 11105
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COMMUNICATIONS
SYSTEMS PA SYSTEM
POWER SUPPLY DIAGRAM

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-229.00
CADD FILE NO
Astoria-CHPE-2022-08-29-00-00-00-001.rvt

GENERAL NOTES:

1. REFER TO NETWORK DRAWINGS FOR SWITCH LOCATION AND PORT CONNECTIVITY.



1
CO-230.00

CEILING SPEAKER MOUNTING DETAILS
NOT TO SCALE

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Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

**Astoria HVDC
Converter Station**

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

**COMMUNICATIONS
SYSTEMS PA SYSTEM
CEILING SPEAKER
MOUNTING DETAILS**

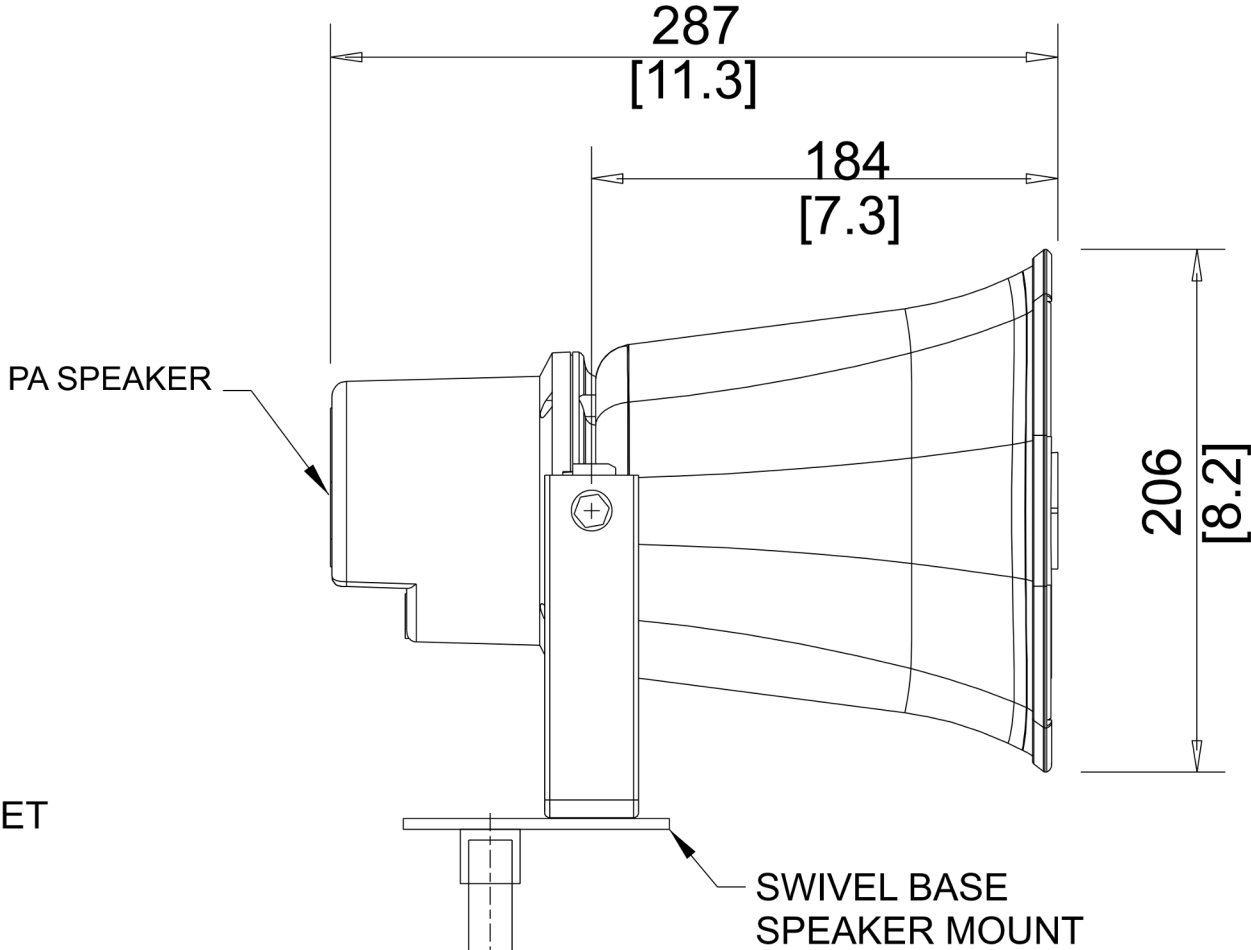
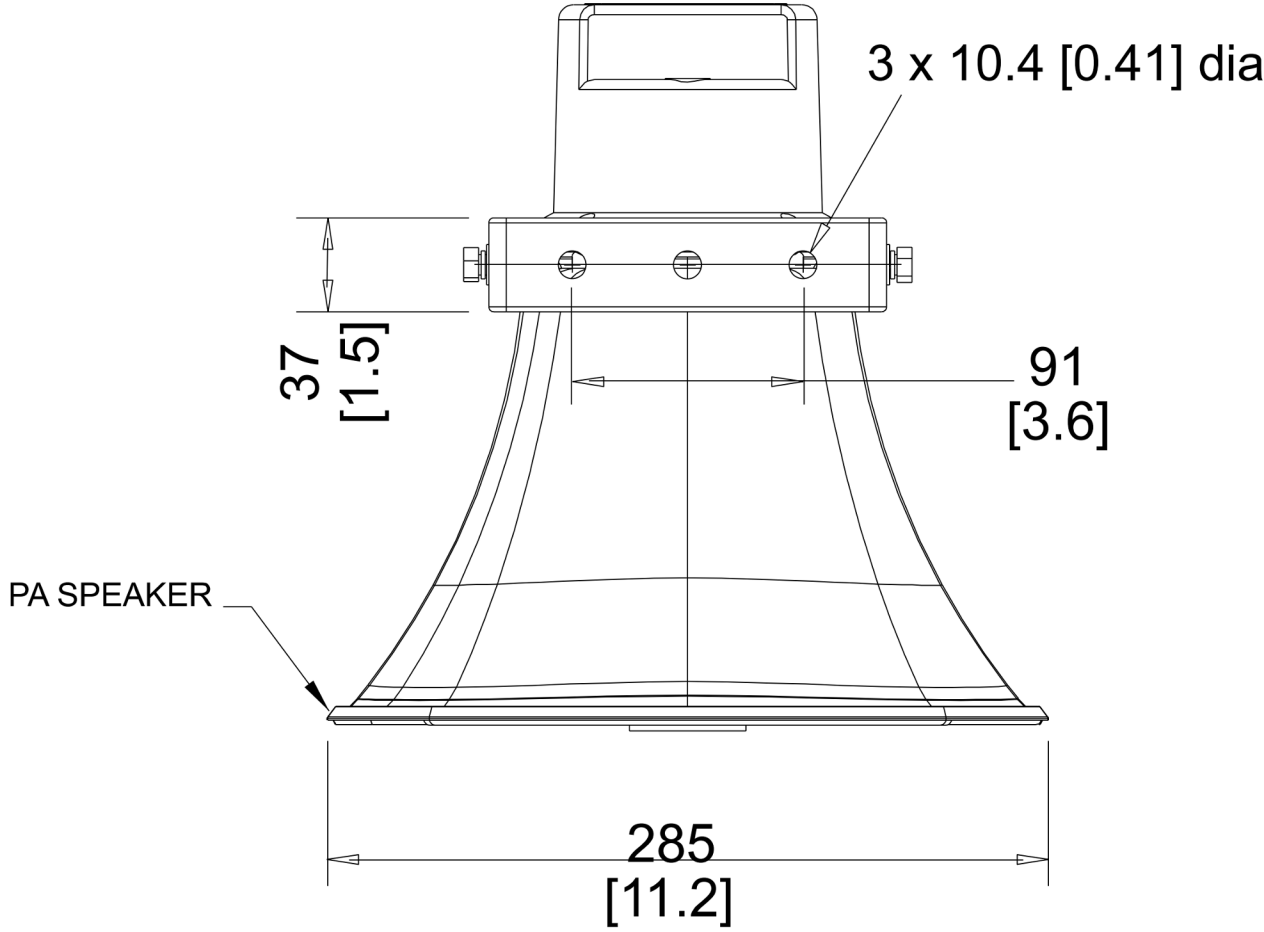
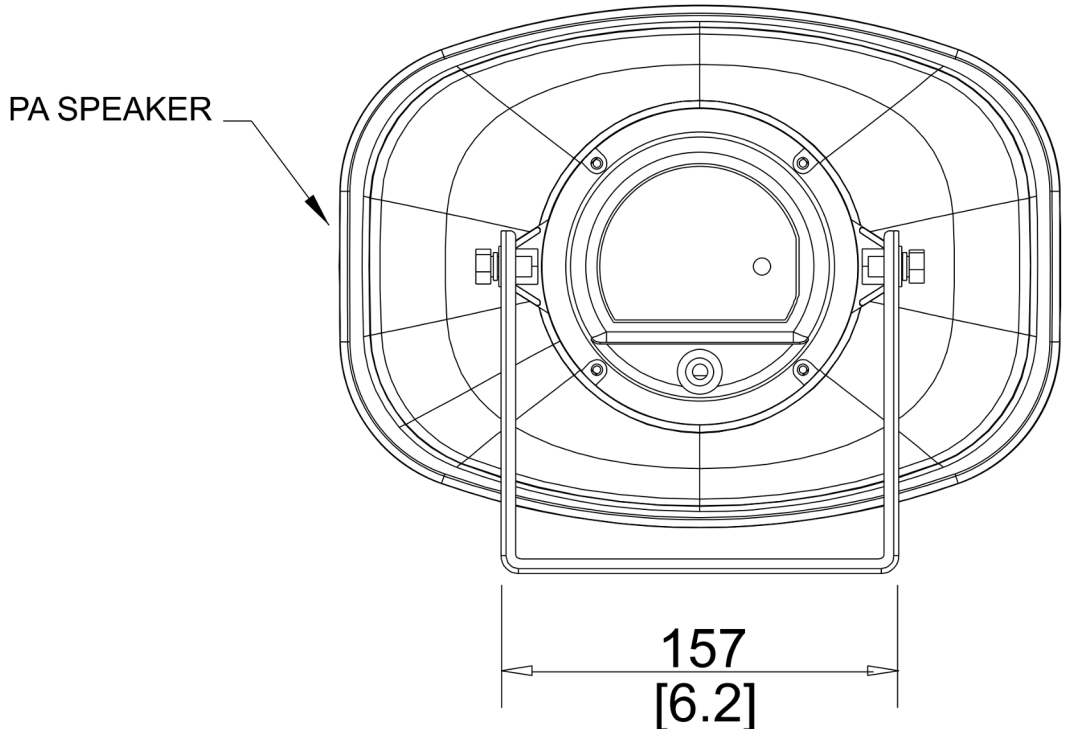
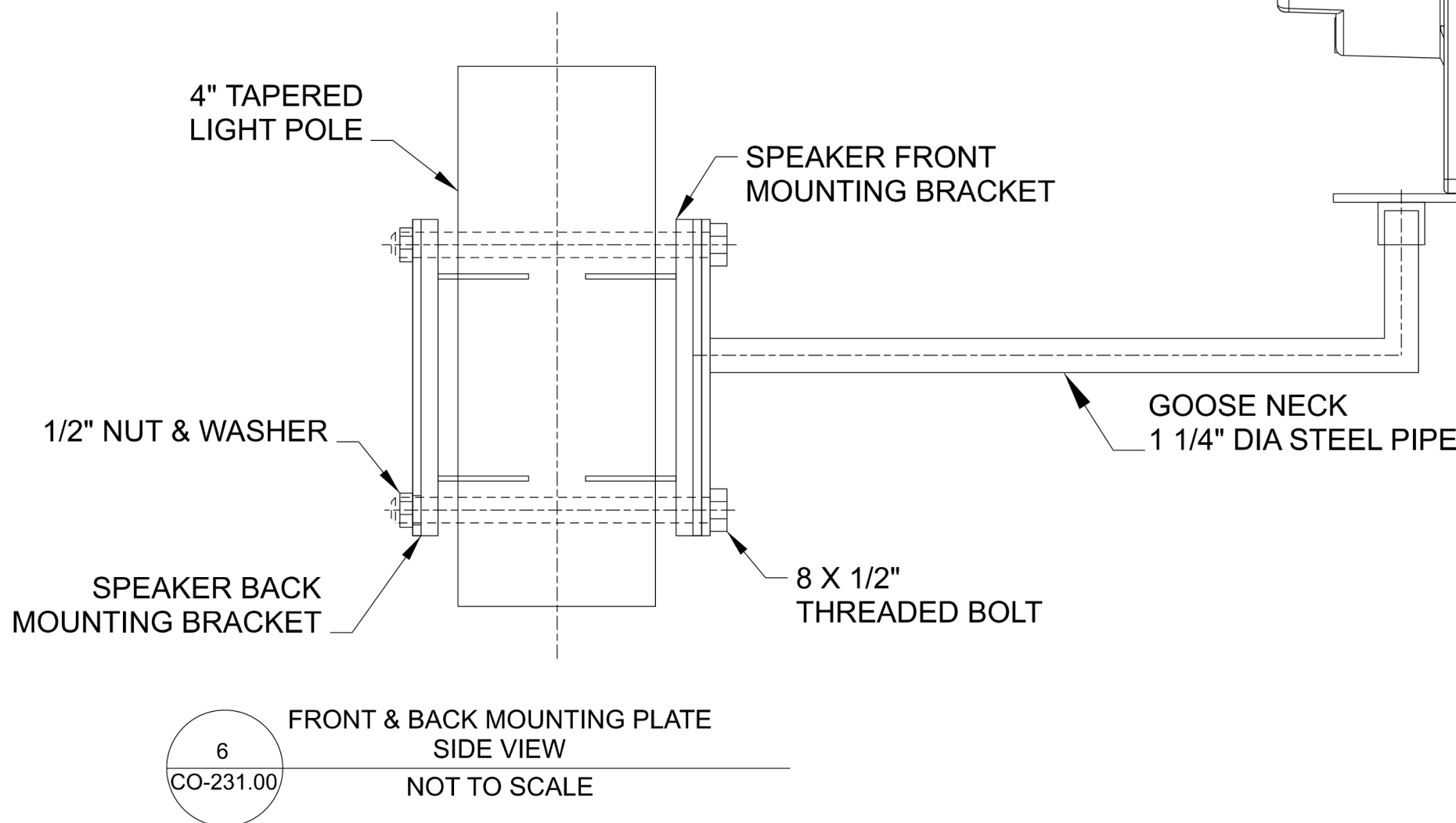
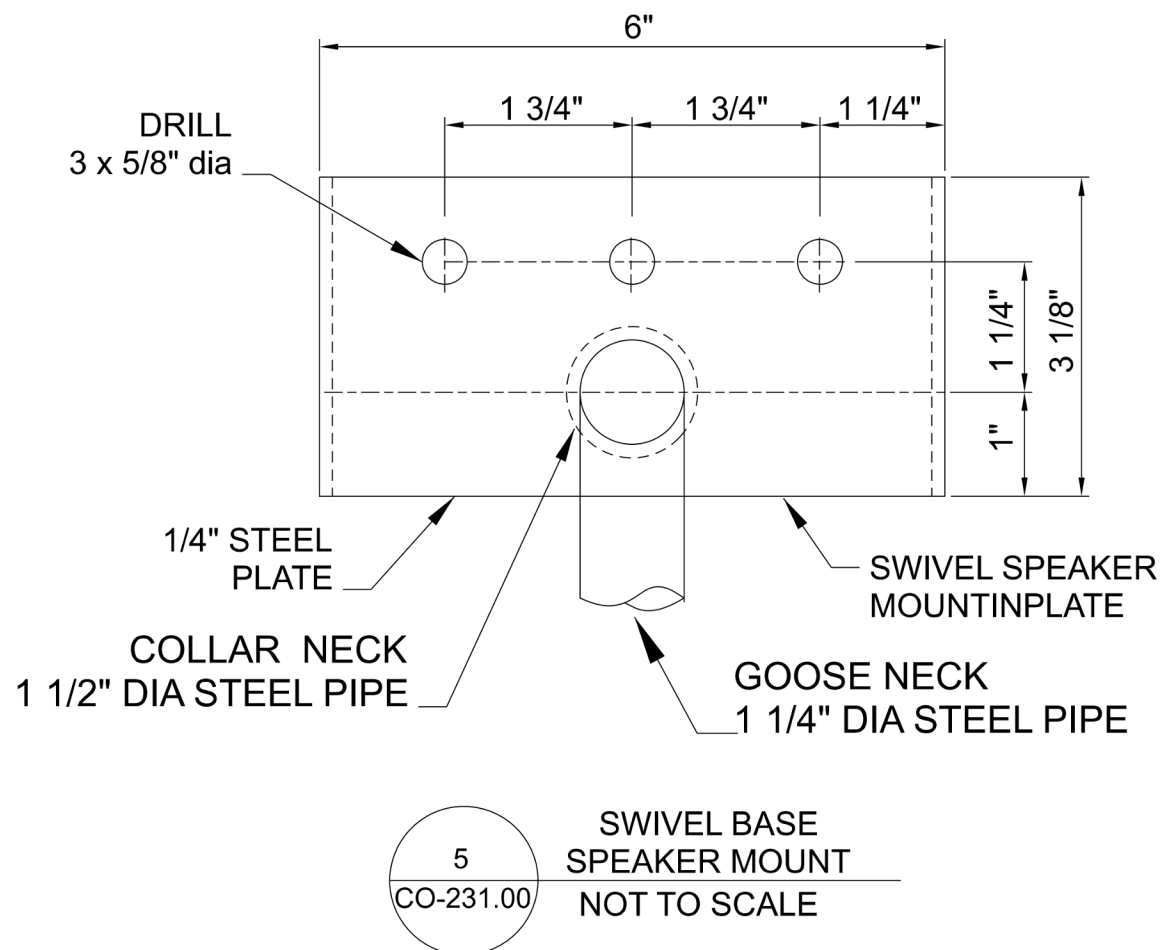
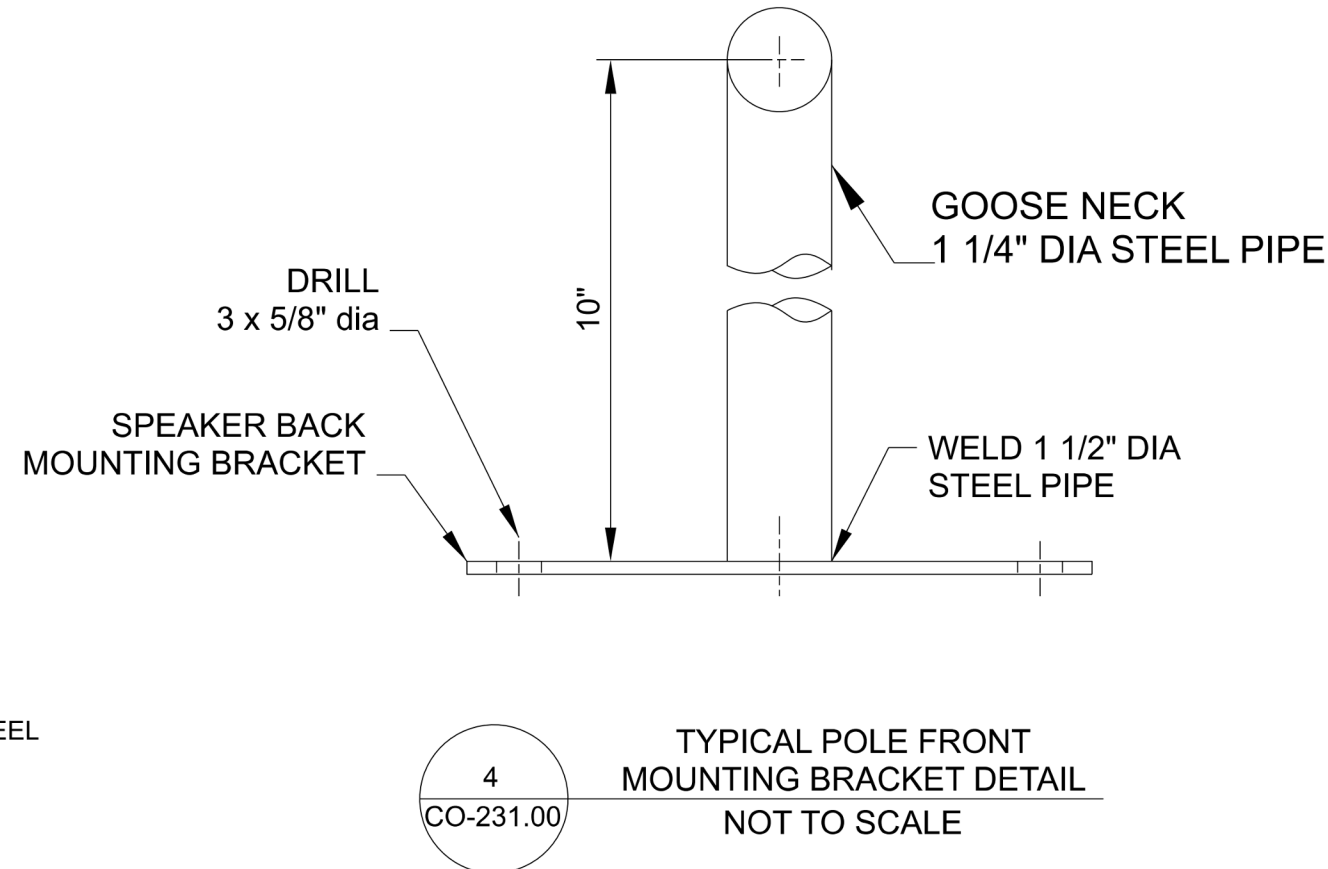
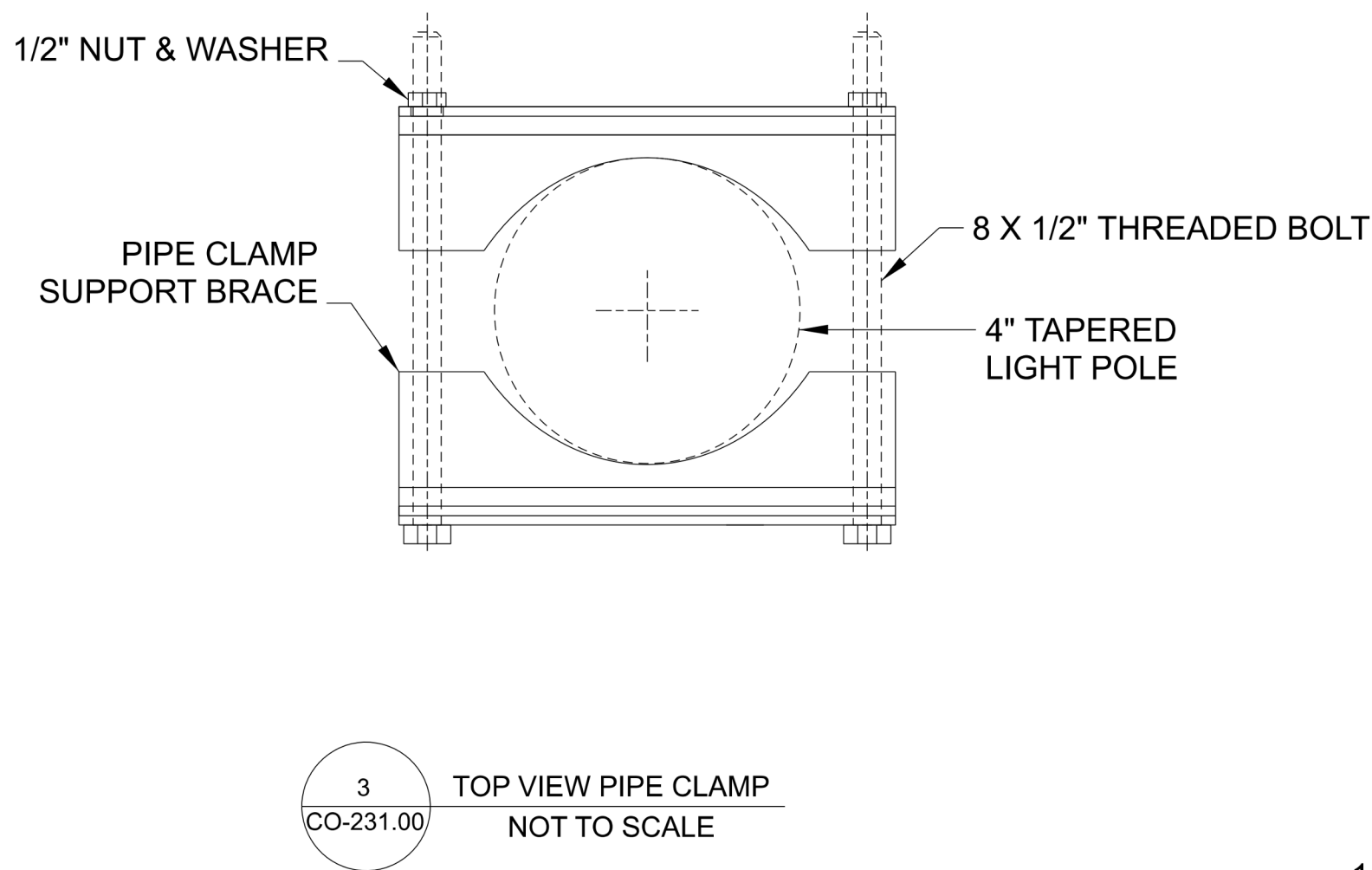
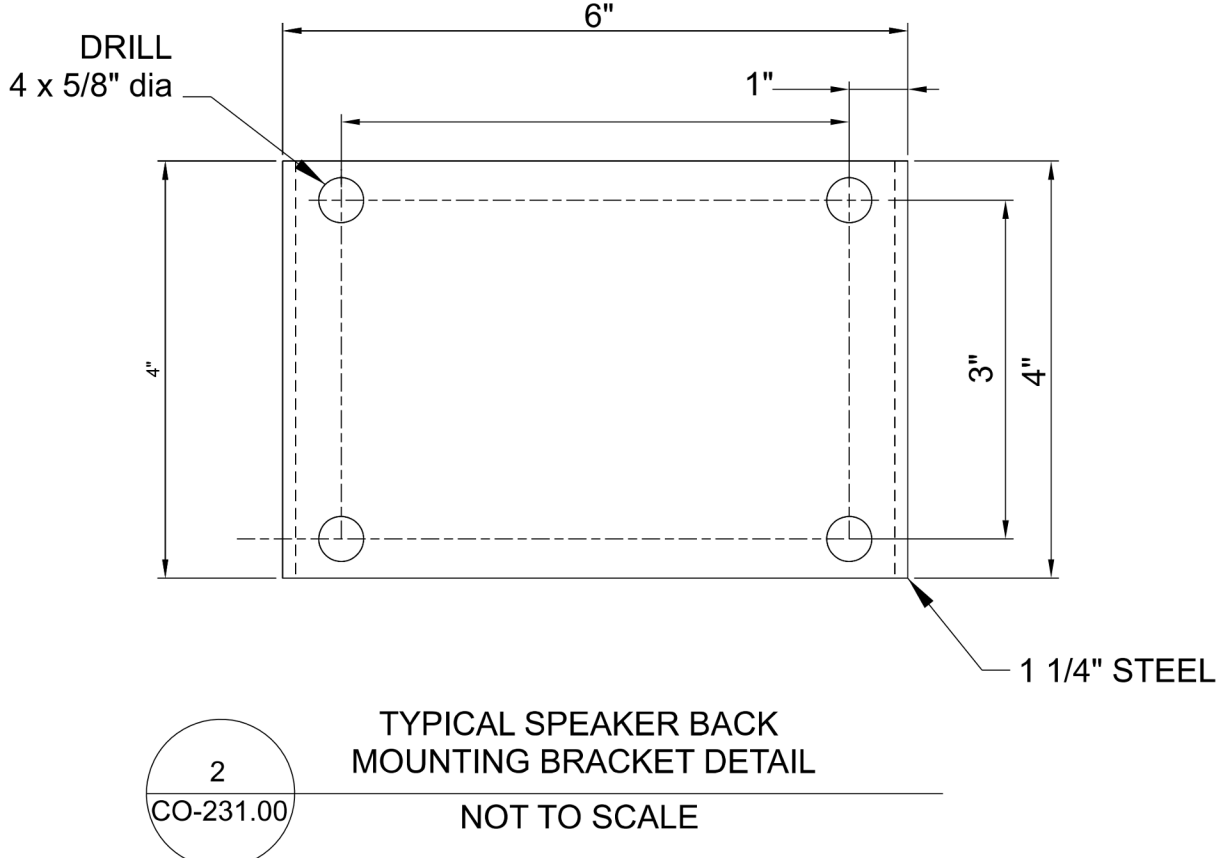
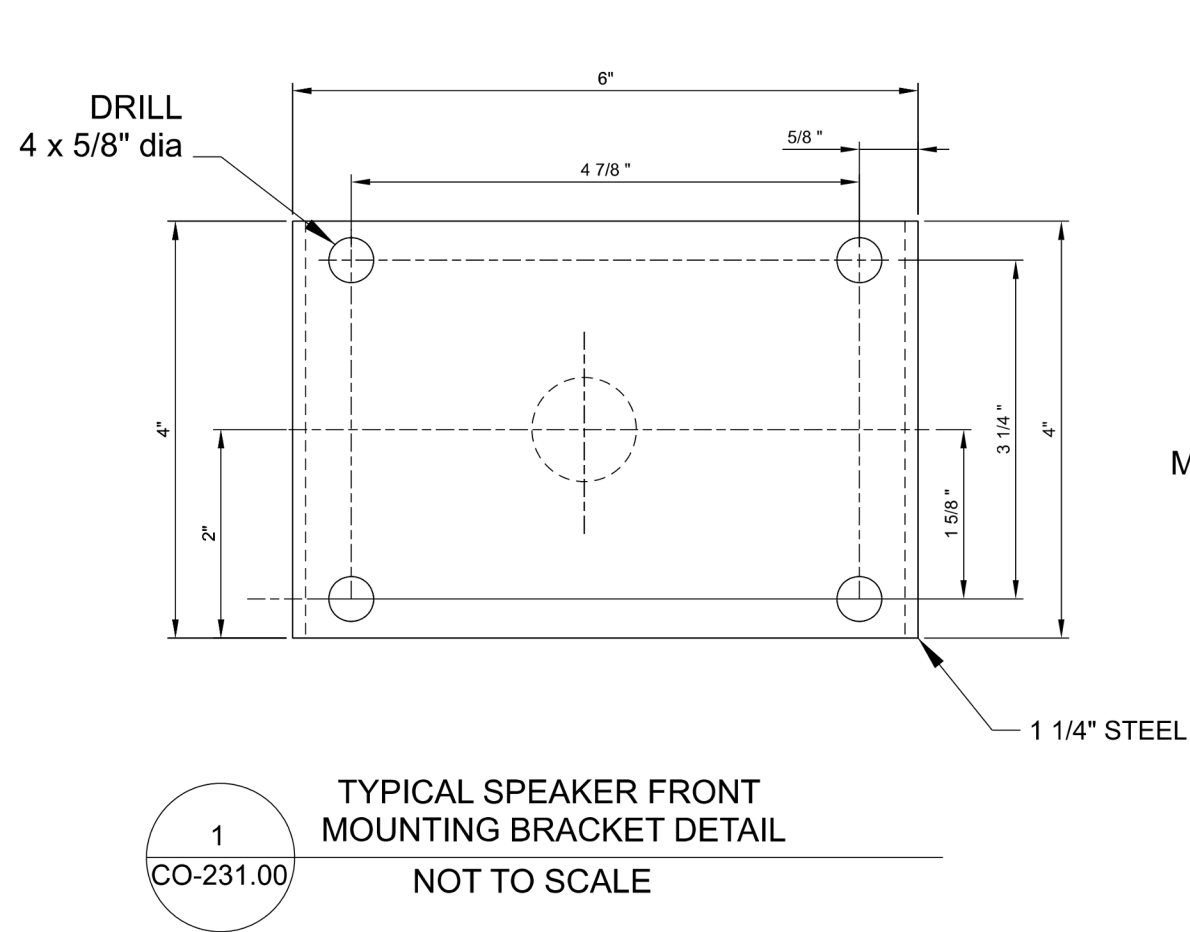
DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer

DRAWING NO

CO-230.00

CADD FILE NO
Astoria-HVDC-CHPE

Astoria/CHA-KIE-200-00-M2-CD-001.rvt



GENERAL NOTES:

- SEE DRAWING CO-232.00 FOR TYPICAL DOUBLE MOUNTED HORN SPEAKERS, WHICH ONLY EXIST IN THE EXTERIOR SITE.
- THIS IS FOR REFERENCE AND TYPICAL INSTALLATIONS ONLY. EXPERIENCED INSTALLER TO MAKE THE CUSTOM MOUNTING BRACKET ONLY.
- THE MOUNTING BRACKET TO THE POLE BEAM DOES NOT CHANGE. REFER TO CO-231.00 FOR DETAILS ON MOUNTING THE BRACKET UNTO THE POLE. IN GENERAL, ATTACH BARACKET TO POLE/BEAM, AND USE A STAINLESS STEEL BAND TO KEEP IT SECURE

KEY NOTES:

- THIS IS ONLY APPROPRIATE FOR SPEAKER HORNS INSTALL IN PAIRS. FOR INDIVIDUALLY MOUNTED HORN SPEAKERS, REFER TO DRAWING CO-231.00
- USE 2 STEEL BANDS TO KEEP THE MOUNTS ONTO THE STEEL POLE. USE BOTH HOLES ON THE EDGES OF THE CUSTOM MOUNTING BRACKETS.
- USE A STEEL BAND TO KEEP THE MOUNT ONTO THE ALUMINUM POLE.
- INSTALLER TO SIZE SCREW AND HOLE THREADING ACCORDINGLY.
- THIS IS AN EXAMPLE OF A MOUNT FOR A 40DEG SPEAKER CONFIGURATION. FOR OTHER ANGLES (OF OTHER SPEAKERS), THE HOLES MUST BE DRILLED TO MAINTAIN THE SPECIFIED ANGLE FOR ACOUSTICAL PERFORMANCE INTEGRITY.

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Kiewit
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Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

Astoria HVDC Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS SYSTEMS PA SYSTEM TYPICAL HORN SPEAKER MOUNTING DETAILS

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
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DRAWING NO
CO-231.00
CADD FILE NO
Astoria HVDC CHPE
Astoria CHA-KIE-200-00-M2-CO-001.rvt

12/7/2022 4:55:09 PM

LOCATION	SPEAKER ID	TAP (WATTS)	PART NUMBER	INSTALLATION HEIGHT (FEET)
SVB - LEVEL 1 - AUXILIARY ROOM (B102)	CS-SVB-108	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - AUXILIARY ROOM (B102)	CS-SVB-109	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - AUXILIARY ROOM (B102)	CS-SVB-110	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - AUXILIARY ROOM (B102)	CS-SVB-111	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - BATTERY ROOM (B103)	CS-SVB-112	15	CONTROL 26CT	CEILING
SVB - LEVEL 1 - BATTERY ROOM (B101)	CS-SVB-113	15	CONTROL 26CT	CEILING
SVB - LEVEL 1 - CONTROL & PROTECTION ROOM 2	CS-SVB-114	15	CONTROL 26CT	CEILING
SVB - LEVEL 1 - OPERATOR ROOM (B109)	CS-SVB-115	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 1 - CORRIDOR	CS-SVB-116	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 1 - CONTROL & PROTECTION ROOM 1	CS-SVB-117	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 1 - I/O ROOM (B105)	CS-SVB-118	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 1 - ENTRANCE ROOM (B108)	CS-SVB-119	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 1 - RESTROOM	CS-SVB-120	7.5	CONTROL 26CT	10 (CEILING)
SVB - LEVEL 1 - LOCKER ROOM (B110)	CS-SVB-121	7.5	CONTROL 26CT	10 (CEILING)
SVB - LEVEL 1 - BREAK ROOM (B111)	CS-SVB-122	7.5	CONTROL 26CT	10 (CEILING)
SVB - LEVEL 1 - VALVE COOLING ROOM (B115)	CS-SVB-123	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - VALVE COOLING ROOM (B115)	CS-SVB-124	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - VALVE COOLING ROOM (B115)	CS-SVB-125	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - VALVE COOLING ROOM (B115)	CS-SVB-126	30	CONTROL 26CT	CEILING
SVB - LEVEL 1 - BATTERY ROOM (B114)	CS-SVB-127	15	CONTROL 26CT	CEILING
SVB - LEVEL 1 - MCC ROOM (B116)	CS-SVB-128	15	CONTROL 26CT	CEILING
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-129	3.8	CSS-H30	12
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-130	3.8	CSS-H30	12
SVB - LEVEL 2 - STORAGE ROOM (B204)	CS-SVB-131	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 2 - CORRIDOR	CS-SVB-132	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-133	3.8	CSS-H30	12
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-134	3.8	CSS-H30	12
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-135	3.8	CSS-H30	12
SVB - LEVEL 2 - CLIMATE CONTROL ROOM (B202)	HS-SVB-136	3.8	CSS-H30	12
SVB - LEVEL 2 - CORRIDOR	CS-SVB-137	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 2 - CLEAN AGENT (B201)	CS-SVB-138	7.5	CONTROL 26CT	CEILING
SVB - LEVEL 2 - TELECOM ROOM (B205)	CS-SVB-139	7.5	CONTROL 26CT	CEILING
EXTERIOR SITE	HS-EX-140	15	CSS-H30	15
EXTERIOR SITE	HS-EX-141	15	CSS-H30	15
EXTERIOR SITE	HS-EX-142	15	CSS-H30	15
EXTERIOR SITE	HS-EX-143	15	CSS-H30	15
EXTERIOR SITE	HS-EX-144	15	CSS-H30	15
EXTERIOR SITE	HS-EX-145	15	CSS-H30	15
EXTERIOR SITE	HS-EX-146	15	CSS-H30	15
EXTERIOR SITE	HS-EX-147	15	CSS-H30	15
EXTERIOR SITE	HS-EX-148	15	CSS-H30	15
EXTERIOR SITE	HS-EX-149	15	CSS-H30	15
EXTERIOR SITE	HS-EX-150	15	CSS-H30	15

1

CO-233.00

PA SYSTEMS SPEAKER SCHEDULE
NOT TO SCALE

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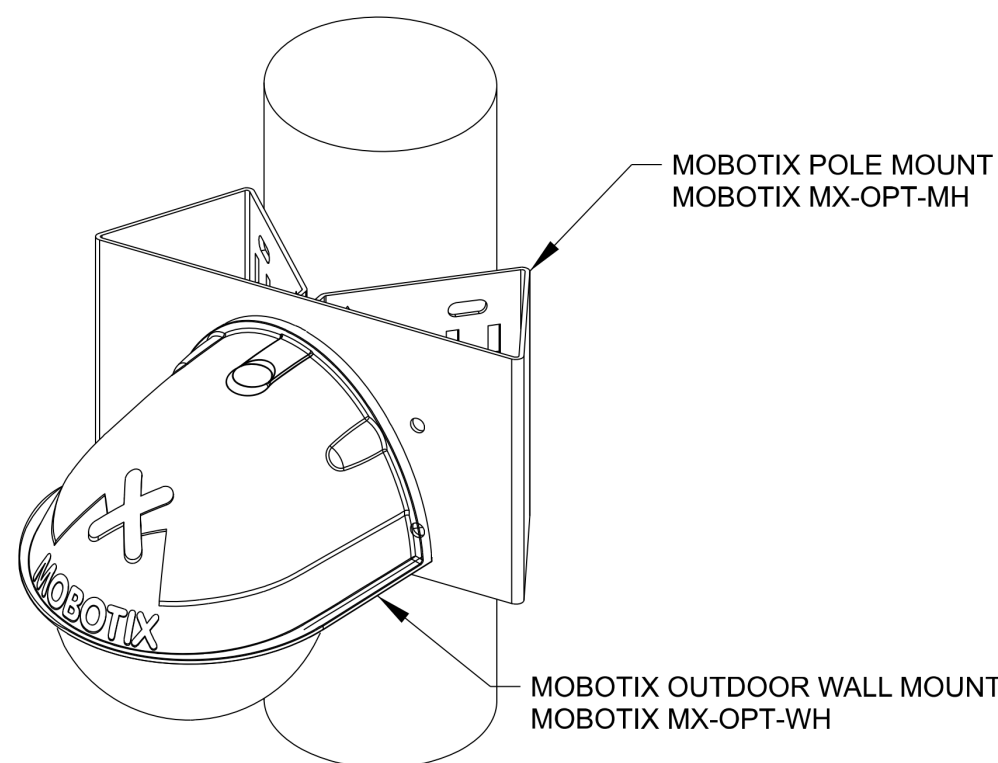
31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS PA SYSTEM
SPEAKER SCHEDULE

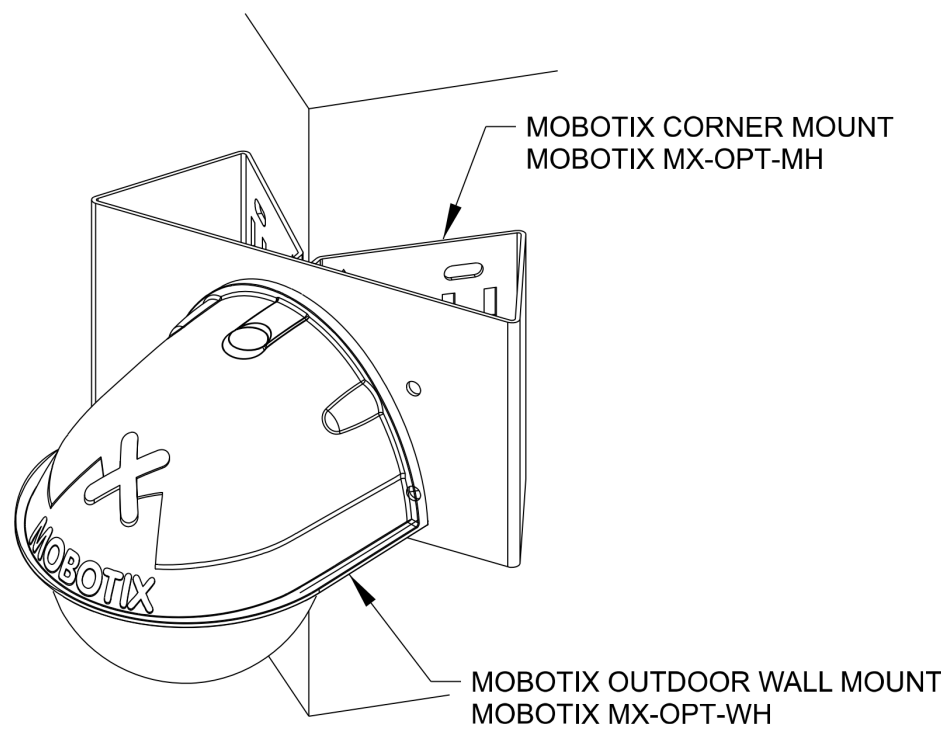
DATE	08/29/2022
PROJECT NO	105121
DRAWING BY	Author
CHECKED BY	Designer
DRAWING NO	CO-232.00
CADD FILE NO	Astoria-HVDC-CHPE
	Astoria-CHPE-KIE 200-00-MD-CO-001.rvt

GENERAL NOTES:

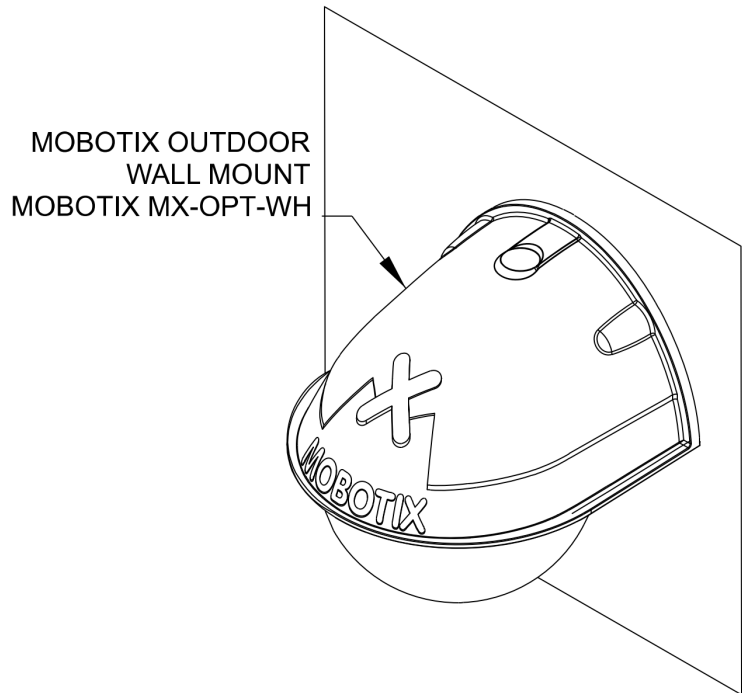
1. APPROPRIATE WALL ANCHORS SHALL BE USED FOR CAMERAS MOUNTED ON CONCRETE WALLS AND CEILINGS.



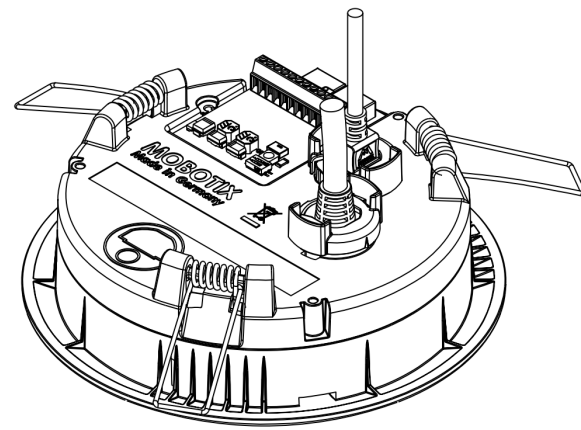
1
CO-233.00
DETAIL - POLE MOUNTED
MOBOTIX D26A DOME & D16 DUALDOME
NOT TO SCALE



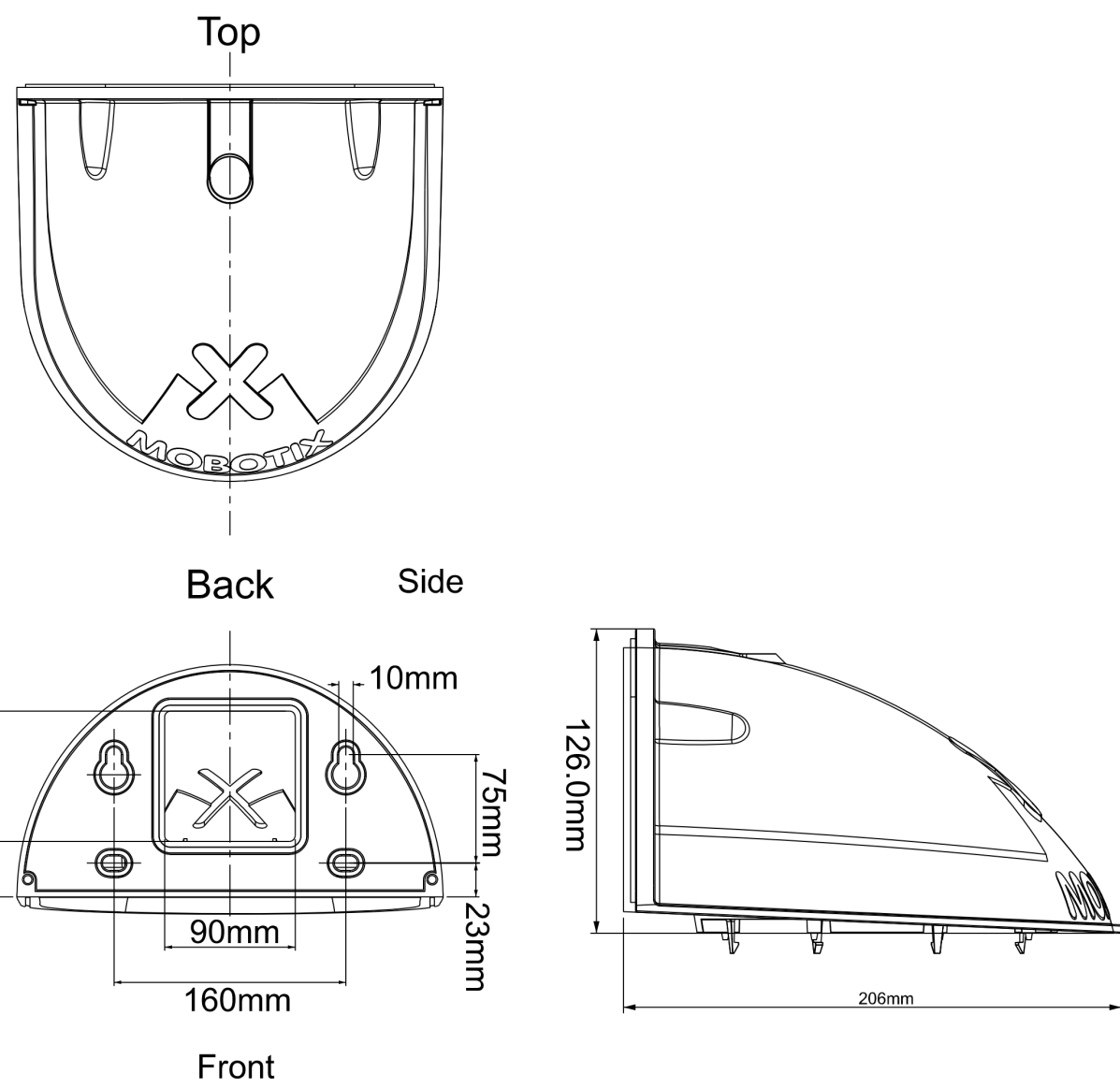
2
CO-233.00
DETAIL - CORNER MOUNTED
MOBOTIX D26A DOME & D16 DUALDOME
NOT TO SCALE



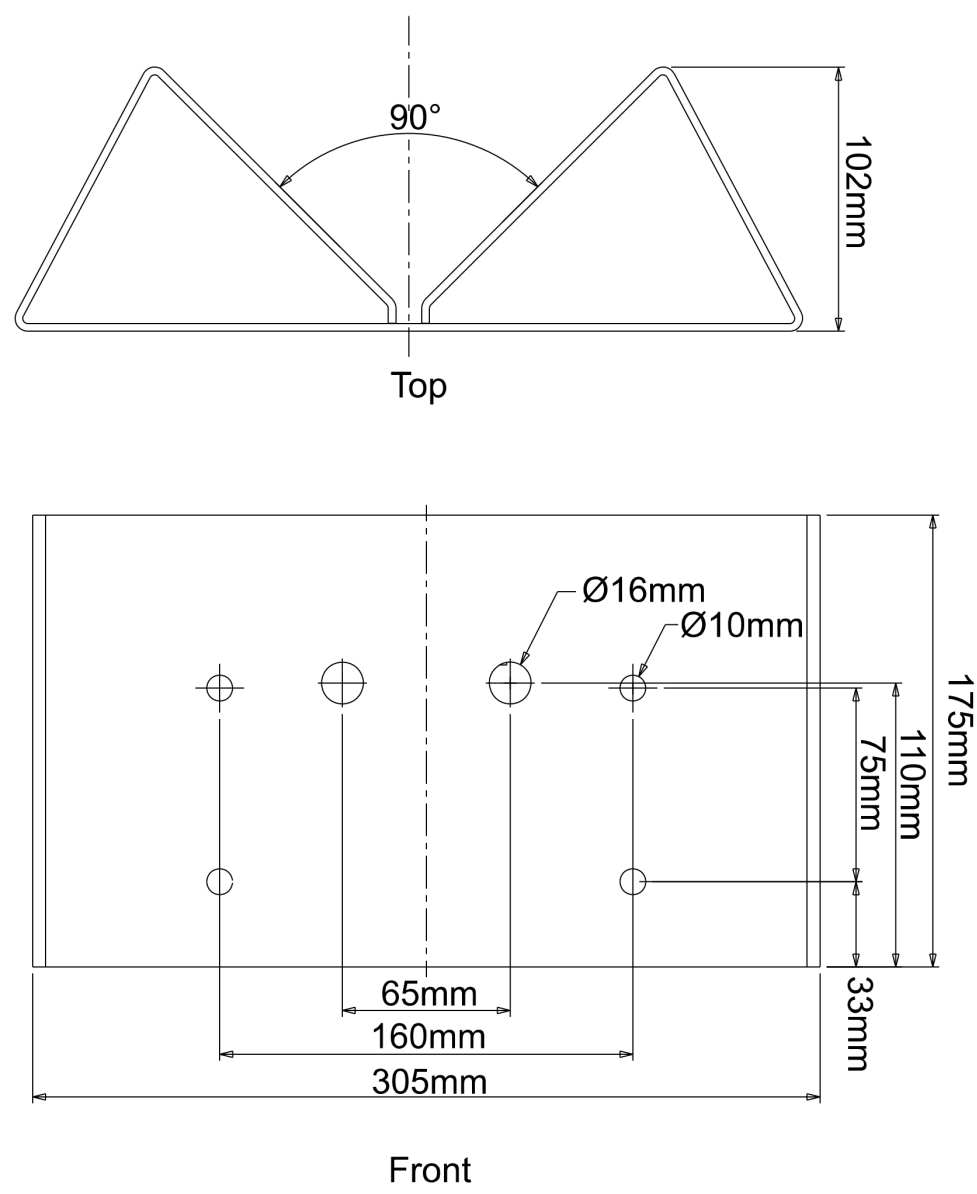
3
CO-233.00
DETAIL - OUTDOOR WALL MOUNTED
MOBOTIX D26A DOME & D16 DUALDOME
NOT TO SCALE



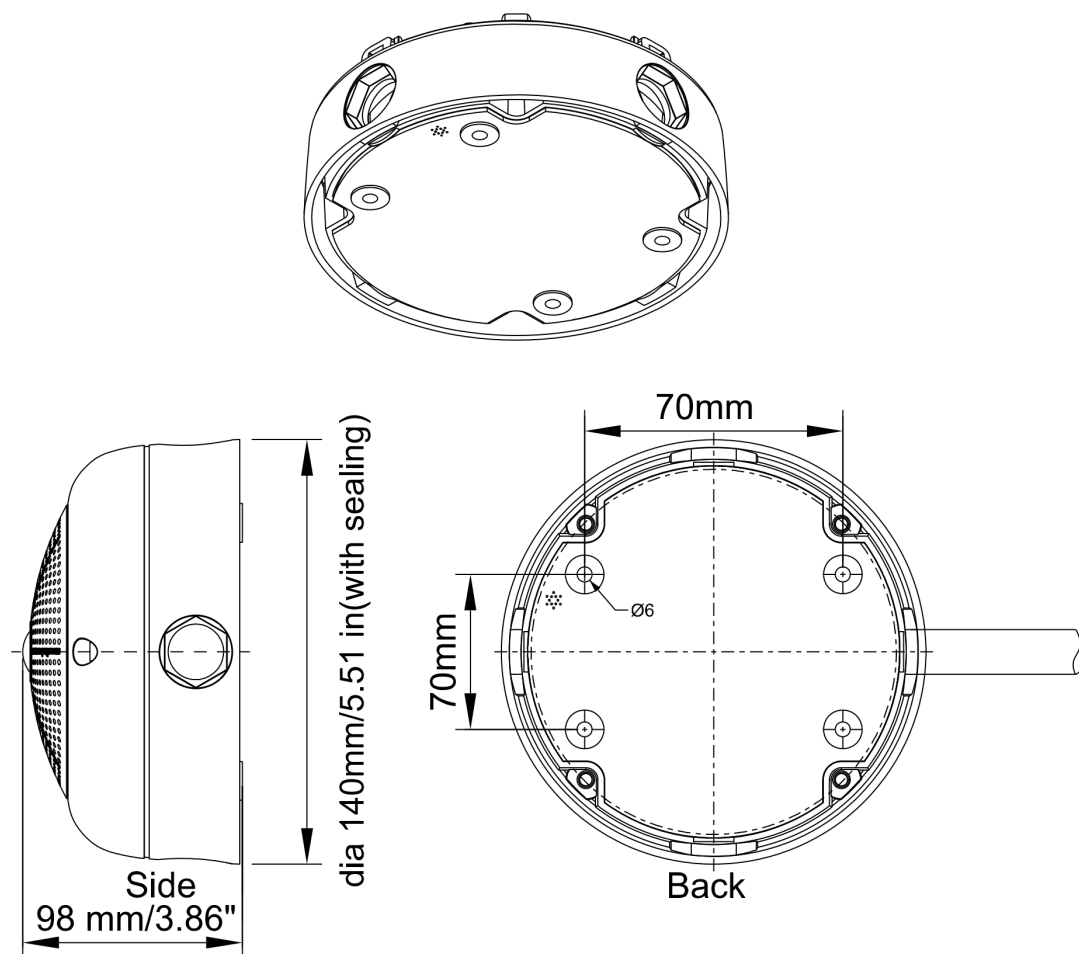
DETAIL - CEILING MOUNTED (STORAGE & RELAY ENCLOSURE)
MOBOTIX C26 360
NOT TO SCALE



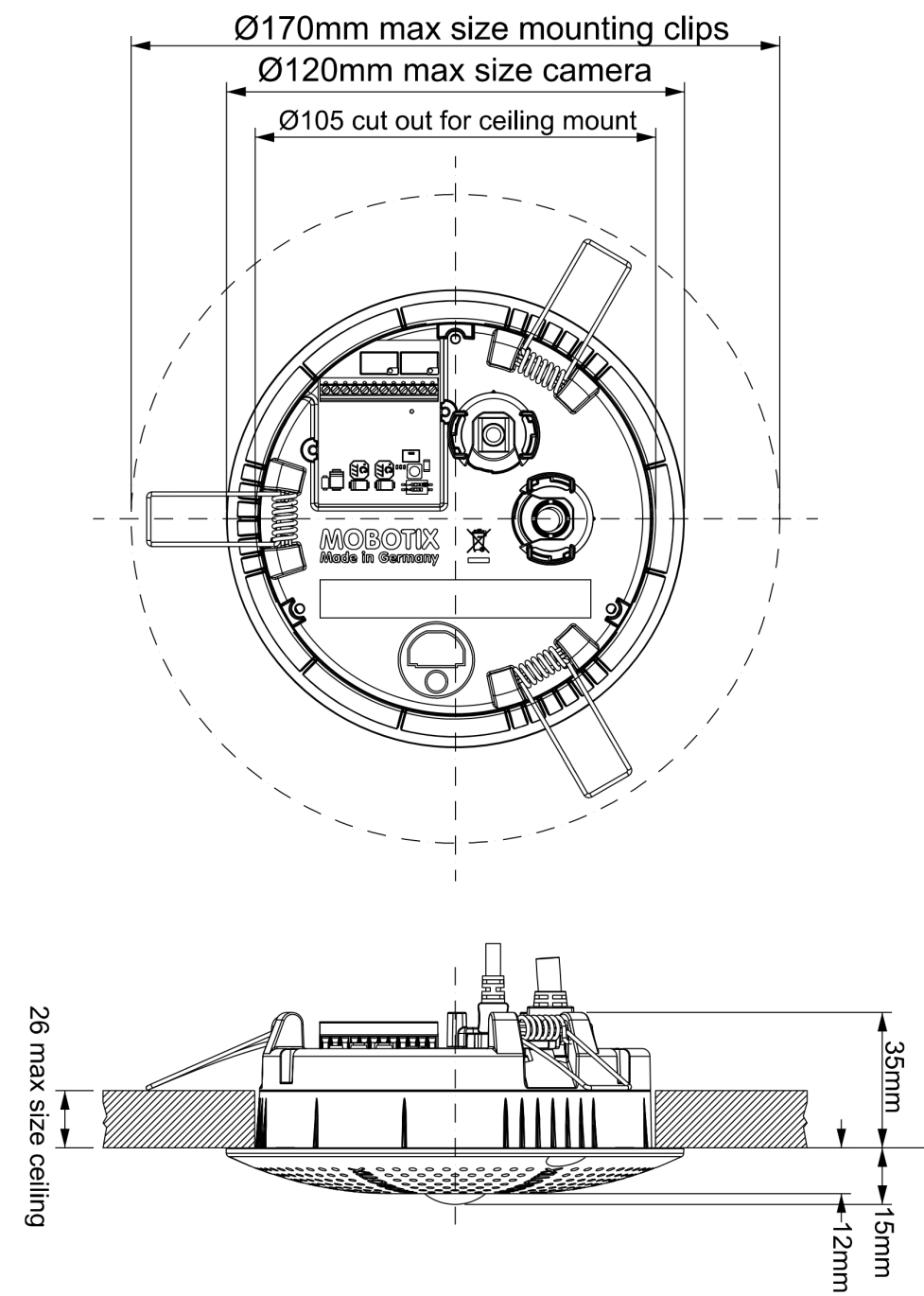
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CO-233.00
DETAIL - MOUNT
MOBOTIX D26A DOME & D16 DUALDOME
NOT TO SCALE



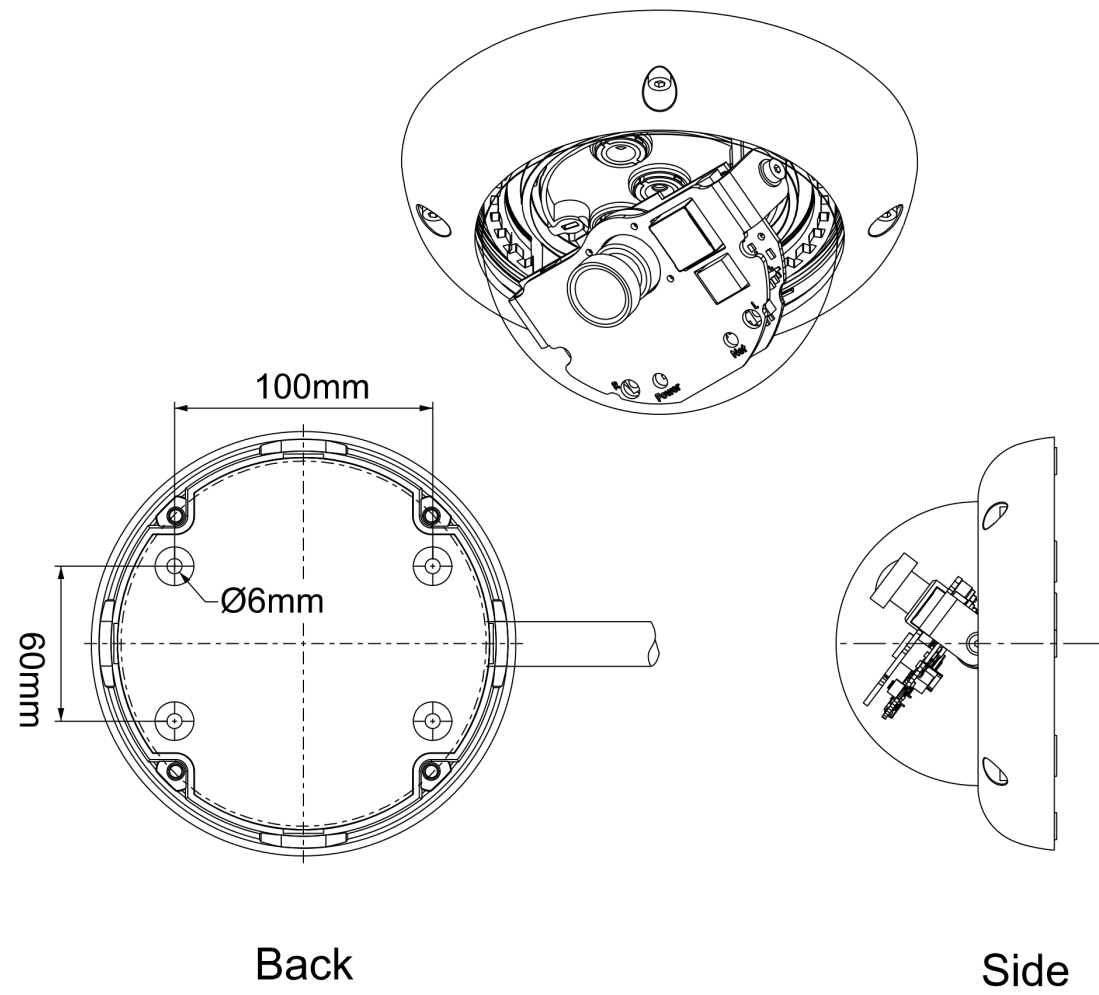
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CO-233.00
MOBOTIX CORNER MOUNT
MOBOTIX MX-OPT-MH
NOT TO SCALE



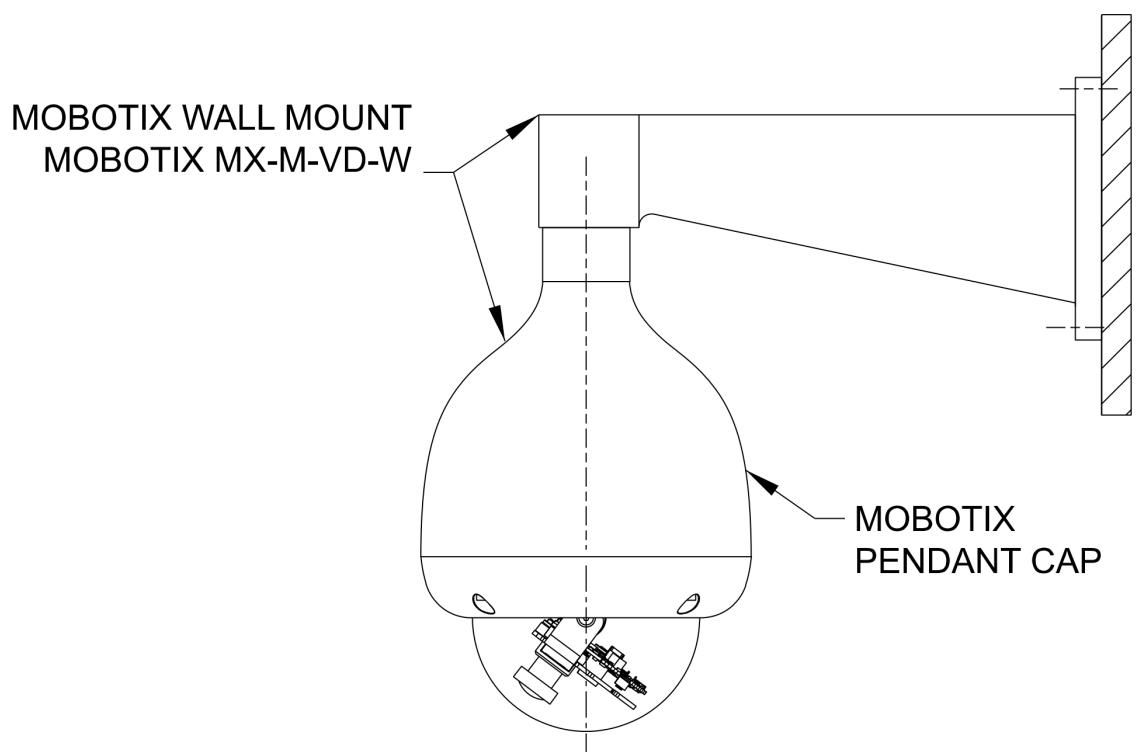
6
CO-233.00
DETAIL - CEILING MOUNTED (STORAGE & RELAY ENCLOSURE)
MOBOTIX C26 360
NOT TO SCALE



7
CO-233.00
DETAIL - CEILING (SERVICE BUILDING)
MOBOTIX C26 360
NOT TO SCALE



8
CO-233.00
DETAIL - INDOOR WALL MOUNTED
MOBOTIX D26A DOME
NOT TO SCALE



9
CO-233.00
DETAIL - WALL MOUNTED (CONVERTER BUILDING)
MOBOTIX MOVE VD1A-4-IR
NOT TO SCALE

ISSUED FOR PERMIT

Engineering and
Land Surveying, P.C.

370 7th Avenue
SUITE 1604
New York, NY 10001

SOWINSKI
SULLIVAN
ARCHITECTURE+ENGINEERING

25 Mohawk Avenue
Sparta, NJ 07871

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REV	DESCRIPTION	DRW BY	CHK BY	DATE
B	FINAL SUBMISSION	JDH	RAB	12/08/2022
A	INTERIM SUBMISSION	JDH	CC	09/13/2022

Kiewit
470 Chestnut Ridge Rd # 2,
Woodcliff Lake, NJ 07677

Hitachi Energy
901 Main Campus Drive
Raleigh, North Carolina 27606

PROJECT

CHPE
Champlain Hudson
Power Express

Astoria HVDC
Converter Station

31-45 20th Avenue, Astoria, Queens NY 11105
Block #850 - Lot #310 - BIN #4624437

COMMUNICATIONS
SYSTEMS TYPICAL
CAMERA MOUNT DETAILS

DATE 08/29/2022
PROJECT NO 105121
DRAWING BY Author
CHECKED BY Designer
DRAWING NO
CO-233.00
CADD FILE NO
Astoria-HVDC-CHPE
Astoria-CHPE-2022-08-29-00-MD-CO-001.rvt

GENERAL NOTES:

1. REFER TO NETWORK DRAWINGS FOR SWITCH LOCATION AND PORT CONNECTIVITY.

Device Label	Manufacturer	Type	Part Number	Mount Type	Mounting Height (ft)
CC-EX-01	Mobotix	DualDome	D16A	Pole	15
CC-EX-02	Mobotix	DualDome	D16A	Pole	15
CC-EX-03	Mobotix	DualDome	D16A	Pole	15
CC-EX-04	Mobotix	DualDome	D16A	Corner	20
CC-EX-05	Mobotix	Fixed	D26A	Corner	15
CC-EX-06	Mobotix	DualDome	D16A	Pole	15
CC-EX-07	Mobotix	DualDome	D16A	Pole	15
CC-EX-08	Mobotix	DualDome	D16A	Pole	15
CC-EX-09	Mobotix	DualDome	D16A	Pole	15
CC-EX-10	Mobotix	DualDome	D16A	Pole	15
CC-EX-11	Mobotix	Fixed	D26A	Pole	15
CC-EX-12	Mobotix	Fixed	D26A	Pole	15
CC-EX-13	Mobotix	DualDome	D16A	Wall	15
CC-EX-14	Mobotix	Fixed	D26A	Wall	12
CC-EX-15	Mobotix	Fixed	D26A	Corner	12
CC-EX-16	Mobotix	DualDome	D16A	Pole	15
CC-SVB-017	Mobotix	360°	C26	Ceiling	15
CC-SVB-018	Mobotix	360°	C26	Ceiling	10
CC-SVB-019	Mobotix	360°	C26	Ceiling	12
CC-SVB-020	Mobotix	360°	C26	Ceiling	12
CC-SVB-021	Mobotix	360°	C26	Ceiling	10
CC-SVB-022	Mobotix	360°	C26	Ceiling	12
CC-SVB-023	Mobotix	Fixed	D26A	Wall	9
CC-SVB-024	Mobotix	360°	C26	Ceiling	10
CC-SVB-025	Mobotix	Fixed	D26A	Wall	9
CC-RLE-028	Mobotix	Fixed	D26A	Wall	12
CC-RLE-029	Mobotix	360°	C26	Ceiling	10
CC-RLE-030	Mobotix	Fixed	D26A	Wall	12
CC-STE-040	Mobotix	360°	C26	Ceiling	20
CC-STE-041	Mobotix	360°	C26	Ceiling	20
CC-DH-50	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-DH-51	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-DH-52	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-DH-53	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-VH-54	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	40
CC-VH-55	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	40
CC-VH-56	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	40
CC-VH-57	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	40
CC-RH-58	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-RH-59	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35
CC-RH-60	Mobotix	PTZ	MOVE VD1A-4-IR	Wall	35

1

CCTV CAMERA DEVICE SCHEDULE

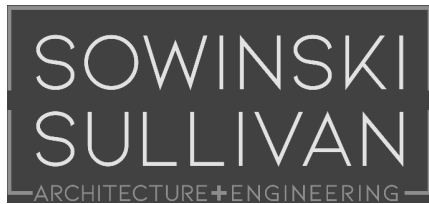
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COMMUNICATIONS
SYSTEMS CCTV SYSTEM
CAMERA DEVICE
SCHEDULE

DATE	08/29/2022
PROJECT NO	105121
DRAWING BY	Author
CHECKED BY	Designer
DRAWING NO	
CO-234.00	
CADD FILE NO Astoria-HVDC-CHPE Astoria-CHA-KIE-200-00-MD-CO-001.rvt	