

Agricola Wind Project

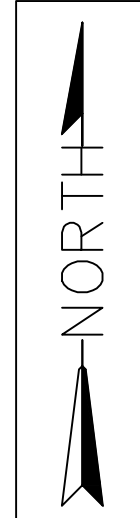
Cayuga County, New York

Substation and Point of Interconnection Switchyard plans

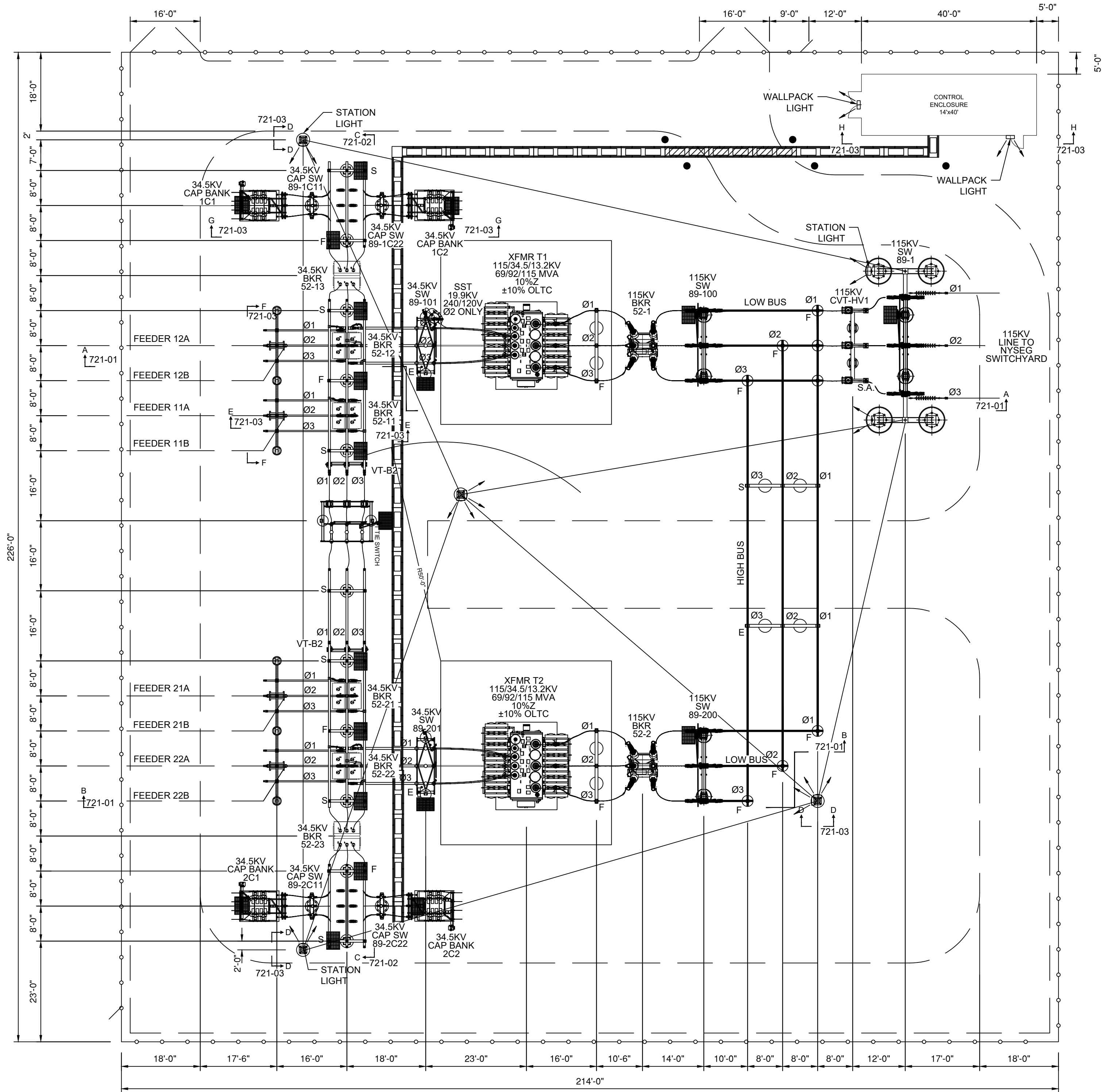
DRAWING INDEX			
Drawing Number	Drawing Title	Revision	Date
AGCL-700-01	COVER SHEET W/DRAWING INDEX	B	09/11/2024
AGCL-720-01	GENERAL ARRANGEMENT - PLAN VIEW - COLLECTOR SUBSTATION	B	06/04/2024
AGCL-721-01	GENERAL ARRANGEMENT - ELEVATION VIEWS - COLLECTOR SUBSTATION	D	09/11/2024
AGCL-721-02	GENERAL ARRANGEMENT - ELEVATION VIEWS - COLLECTOR SUBSTATION	C	08/16/2024
AGCL-721-03	GENERAL ARRANGEMENT - ELEVATION VIEWS - COLLECTOR SUBSTATION	C	09/11/2024
AGCL-720P-01	GENERAL ARRANGEMENT - PLAN VIEW - UTILITY POI SUBSTATION	B	06/04/2024
AGCL-721P-01	GENERAL ARRANGEMENT - ELEVATION VIEW - UTILITY POI SUBSTATION	C	09/11/2024
AGCL-721P-02	GENERAL ARRANGEMENT - ELEVATION VIEW - UTILITY POI SUBSTATION	C	08/16/2024
AGCL-721P-03	GENERAL ARRANGEMENT - ELEVATION VIEW - UTILITY POI SUBSTATION	C	09/11/2024
AGCL-731-01	ILLUMINATION PLAN - COLLECTOR SUBSTATION	C	08/23/2024
AGCL-731-02	ILLUMINATION - DETAILS	A	06/04/2024
AGCL-731-03	ILLUMINATION - DETAILS	B	09/11/2024

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									DWG. NO.:	AGCL-700					
										SH:	1	REV:	B		
	B	09/11/2024	LIGHTING HEIGHT AND POLE UPDATE		TB	SR	SR								
	A	08/23/2024	ISSUED FOR PERMIT-FOR REVIEW		TB	SR	SR								
								DRAWING INDEX				SCALE:		NONE	



SEE NOTE 1



NOTES:

1. SEE 760 SITE PLAN FOR INDICATION OF TRUE NORTH.

LEGEND:

- F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING
A INDICATES SECTION VIEW "A-A"
721-0 DRAWING ON WHICH SECTION APPEARS
DRIVEABLE TRENCH
PEDESTRIAN TRENCH
FENCE
WALLPACK & STATION LIGHT

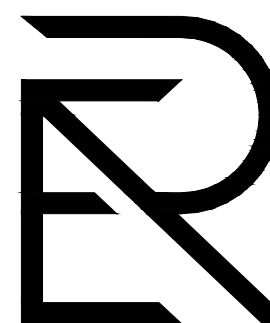
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B	06/04/2024	UPDATED TO 2 XFMR DESIGN	TB	SR	SR	
A	03/20/2024	ISSUED FOR PERMIT-FOR REVIEW	TB	SR	SR	

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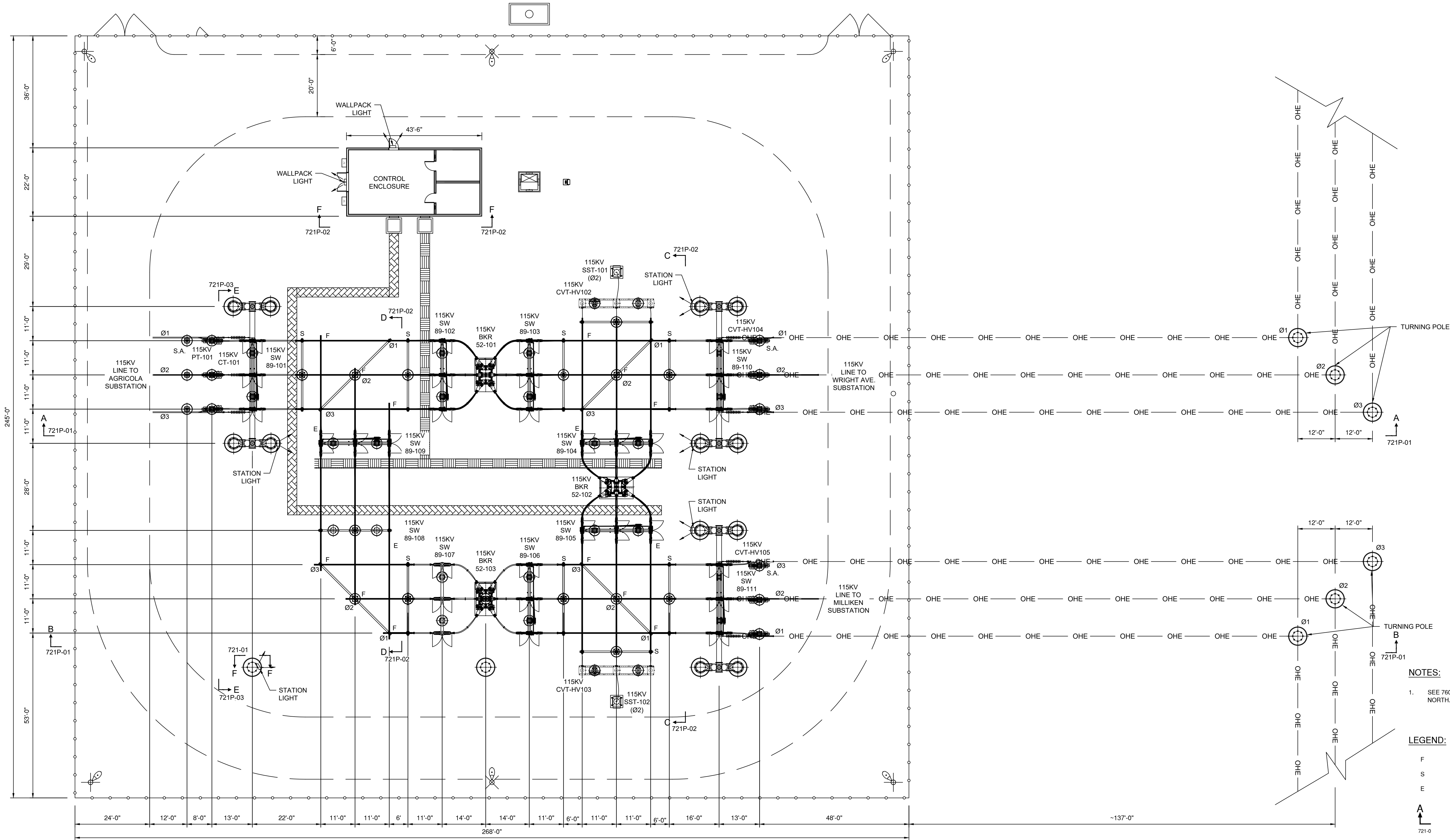
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40 TAMARACK LANE
NYSKAYUNA, NY 12309
(518) 225-9473

AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
34.5KV COLLECTION SUBSTATION
GENERAL ARRANGMENT

PROJ. NO.	AGCL
DWG. NO.	AGCL-720
SH.	1
REV.	B
SCALE:	3/32" = 1'-0"



SEE NOTE 1



NOTES:

1. SEE 760 SITE PLAN FOR INDICATION OF TRUE NORTH.

LEGEND:

- F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING
A INDICATES SECTION VIEW "A-A"
721-0 DRAWING ON WHICH SECTION APPEARS
TRENCH 1
TRENCH 2
FENCE
WALLPACK & STATION LIGHT

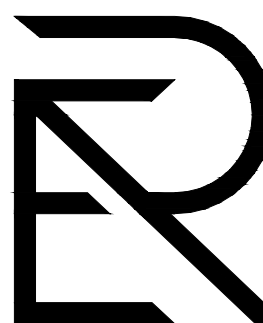
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REV.	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED	APPRVD.	P.E. STAMP
B	06/04/2024	REMOVED FUTURE BREAKER	TB	SR	SR	
A	03/20/2024	ISSUED FOR PERMIT-FOR REVIEW	TB	SR	SR	

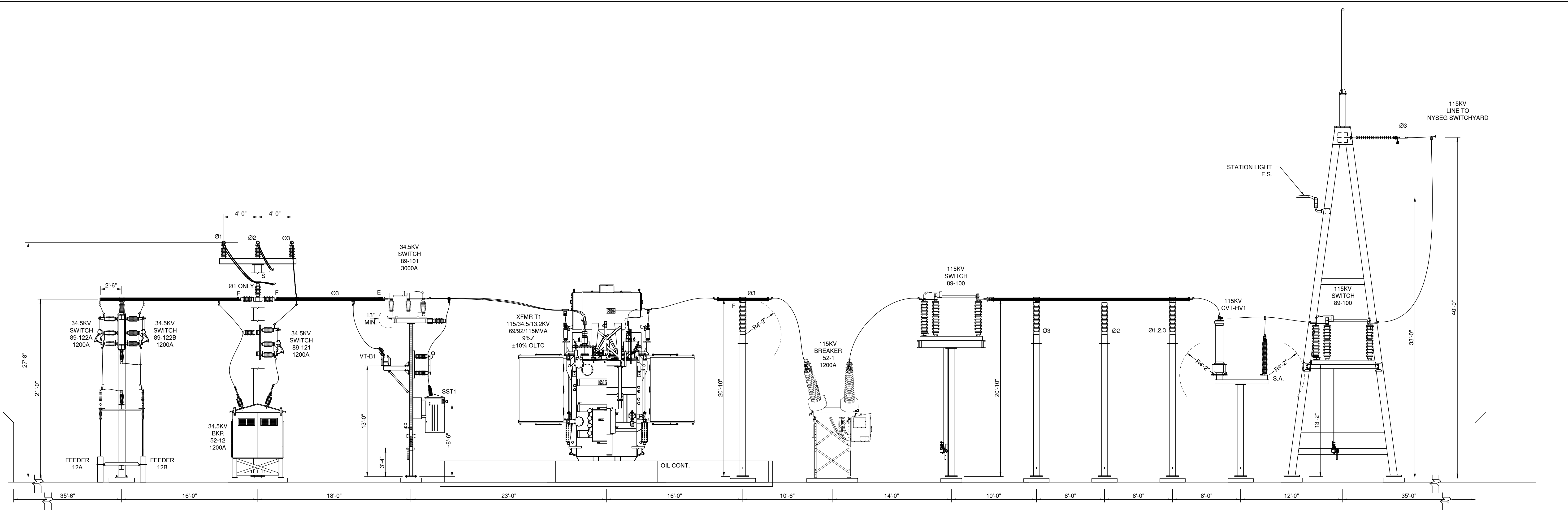
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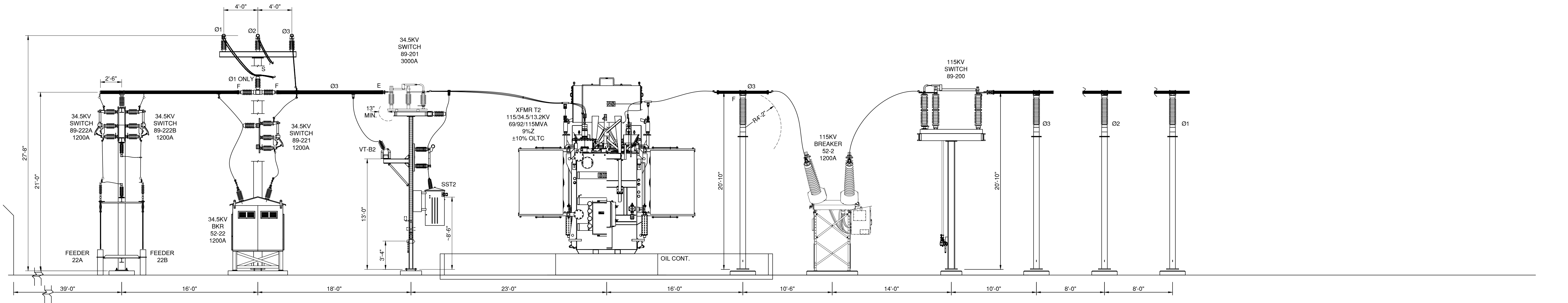
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AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
115KV NYSEG SWITCHYARD
GENERAL ARRANGEMENT

PROJ. NO.	AGCL
DWG. NO.	AGCL-720P
SH.	1
REV.	B
SCALE:	1/16" = 1'-0"



SECTION A-A



SECTION B-B

NOTE:
ALL LOW SUBSTATION STEEL STRUCTURES AND STEEL DEAD-END STRUCTURES
WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
TRANSMISSION LINE POLES IN THE UTILITY ROW ARE PLANNED TO BE
SELF-WEATHERING STEEL

LEGEND:

- F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING

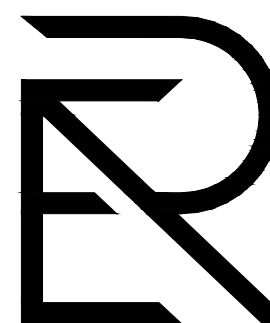
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C	08/16/2024	STEEL NOTE ADDED	TB	SR	SR	
B	06/04/2024	UPDATED TO 2 XFMR DESIGN	TB	SR	SR	
A	03/20/2024	ISSUED FOR PERMIT-FOR REVIEW	TB	SR	SR	

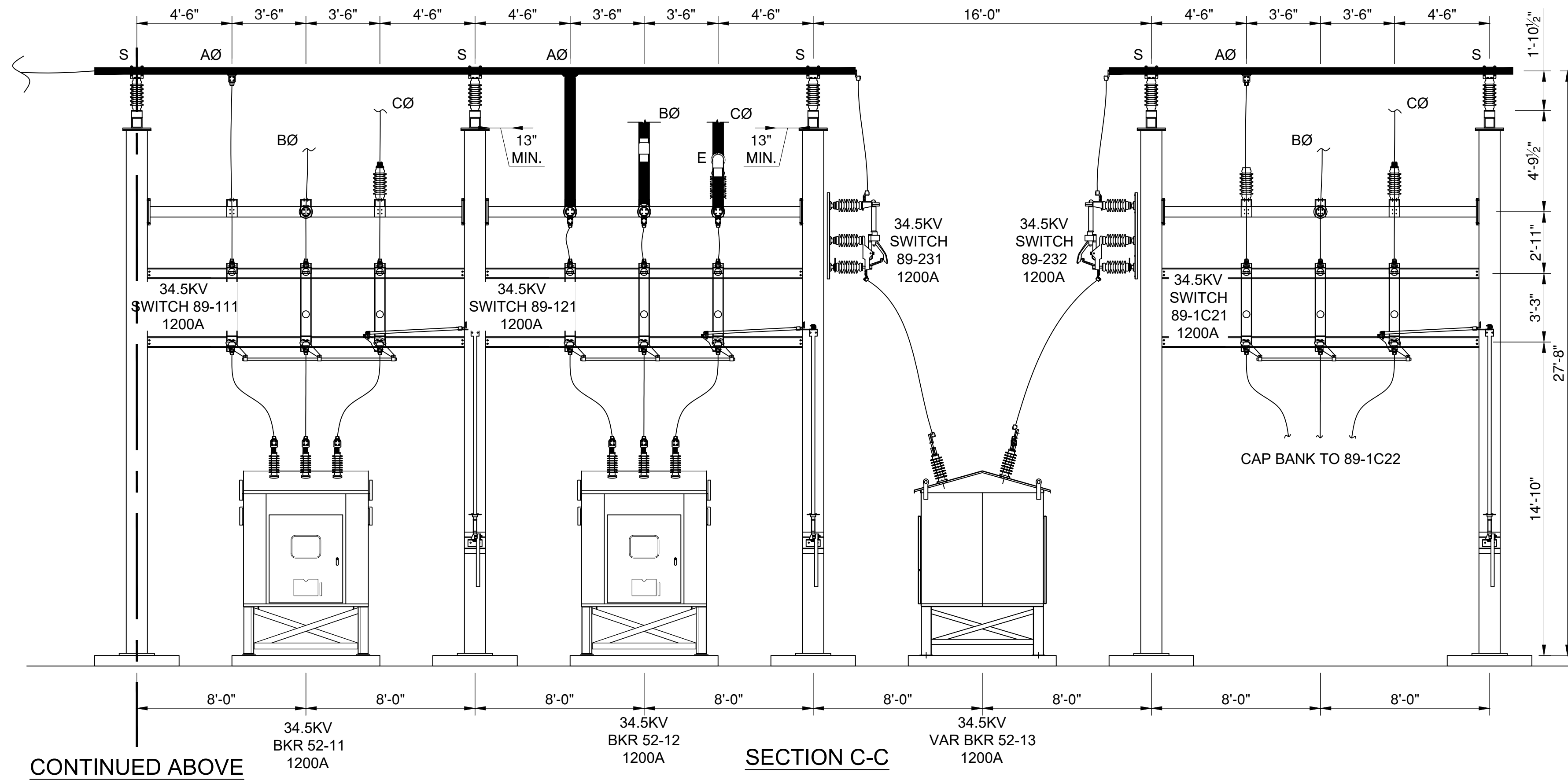
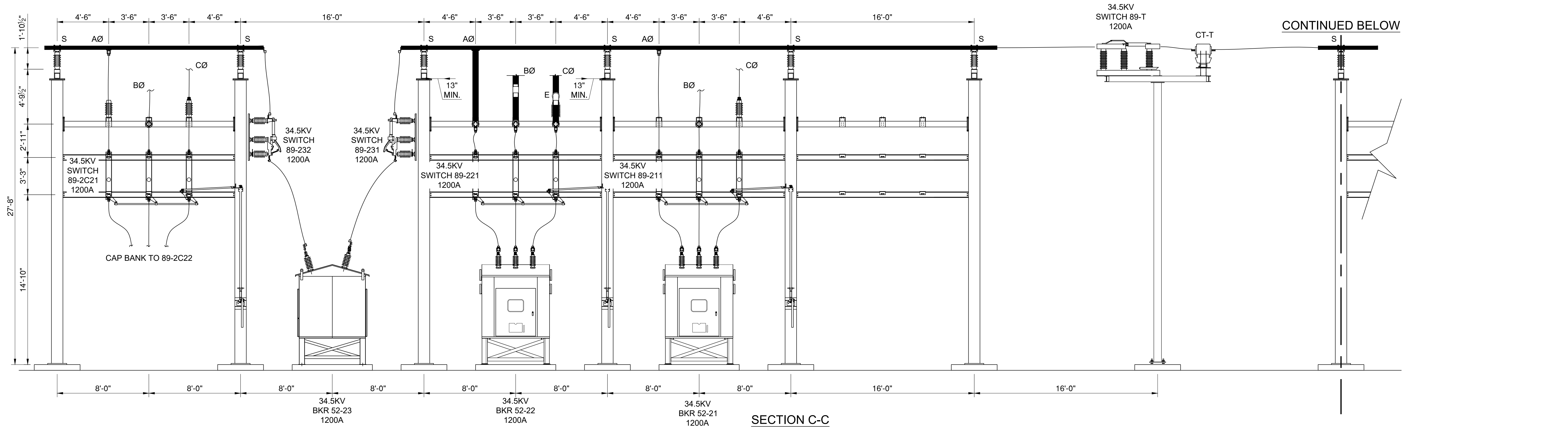
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AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
34.5KV COLLECTION SUBSTATION
GENERAL ARRANGMENT

PROJ. NO.	AGCL
DWG. NO.	AGCL-721
SH.	1
REV.	D
SCALE:	3/32" = 1'-0"



NOTE:
ALL LOW SUBSTATION STEEL STRUCTURES AND STEEL DEAD-END STRUCTURES
WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
TRANSMISSION LINE POLES IN THE UTILITY ROW ARE PLANNED TO BE
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LEGEND:

F	FIXED FITTING
S	SLIP FITTING
E	EXPANSION FITTING

NOT FOR
CONSTRUCTION

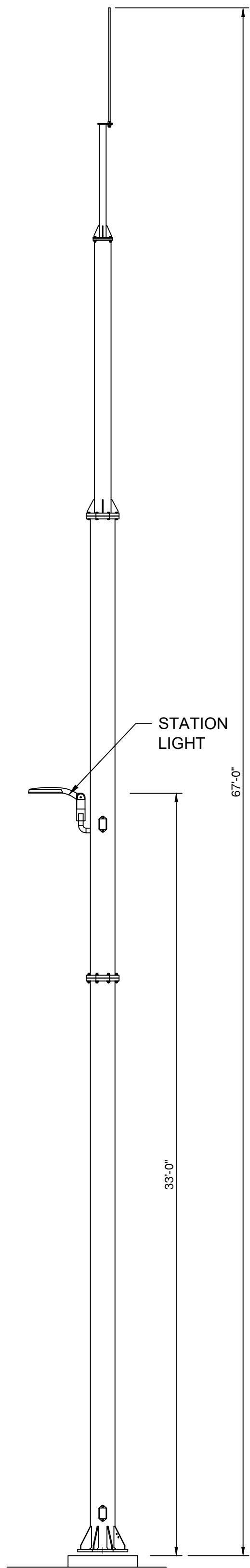
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		B	06/04/2024	UPDATED TO 2 XFMR DESIGN	TB	SR	SR	
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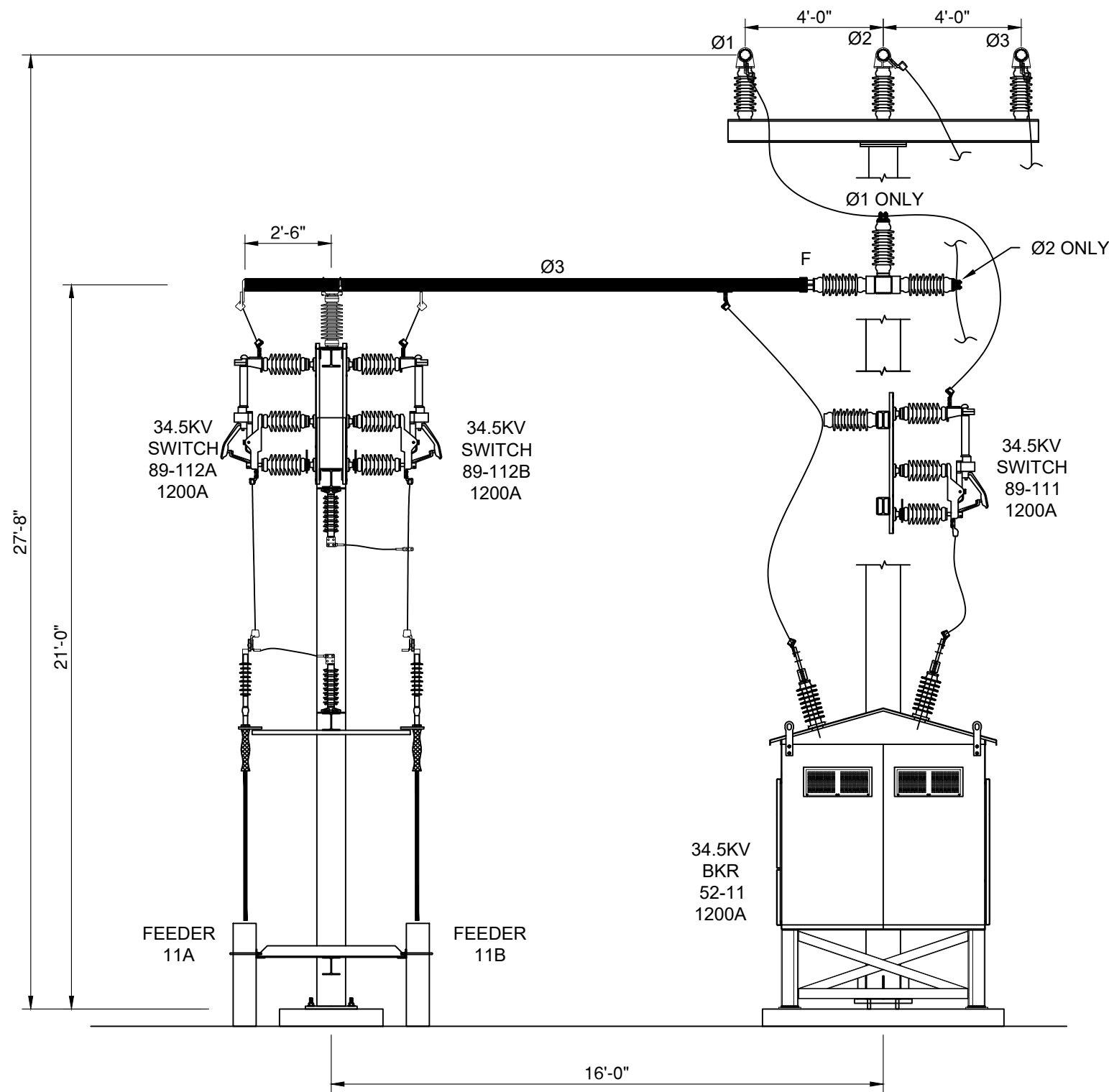
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34.5KV COLLECTION SUBSTATION
GENERAL ARRANGMENT

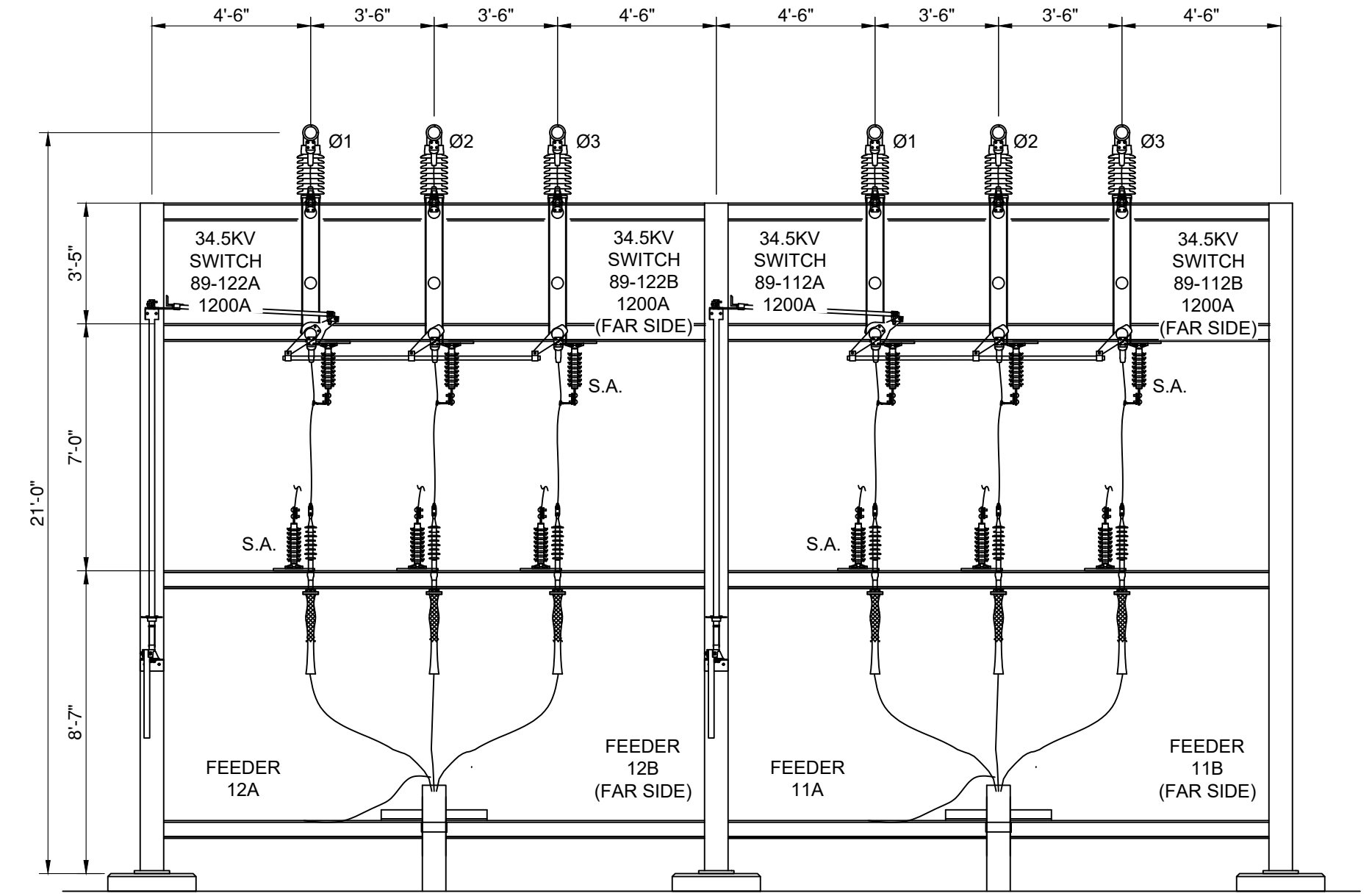
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DWG. NO.	AGCL-721
SH.	2
REV.	C
SCALE:	3/32" = 1'-0"



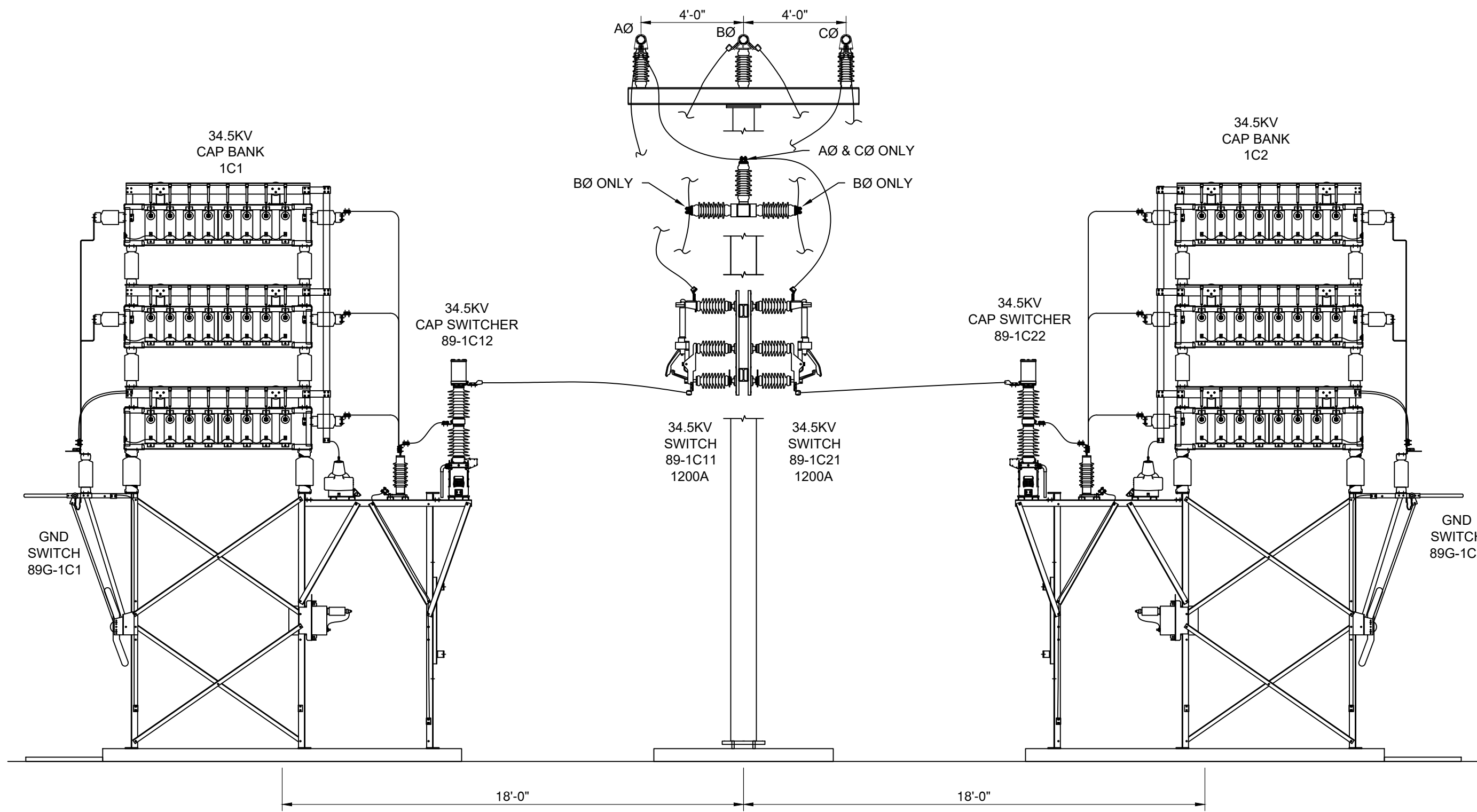
SECTION D-D
TYPICAL SHIELDING MAST
(SEE 731 FOR LIGHT LOCATIONS)



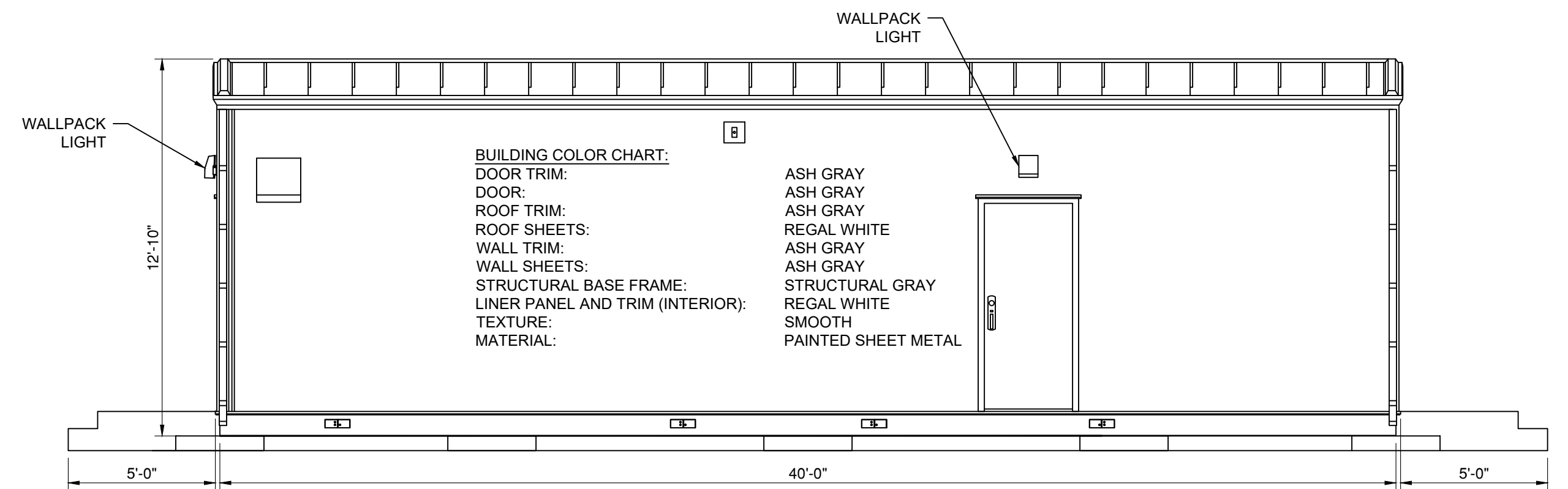
SECTION E-E
TYPICAL FEEDER BAY



SECTION F-F
TYPICAL FEEDER BAY



SECTION G-G
TYPICAL CAP BANK BAY



SECTION H-H
GENERAL ARRANGMENT

NOTE:
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WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
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SELF-WEATHERING STEEL

LEGEND:

F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING

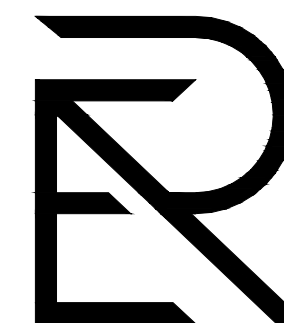
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A	06/04/2024	UPDATED TO 2 XFMR DESIGN (NEW SHEET)	TB	SR	SR	

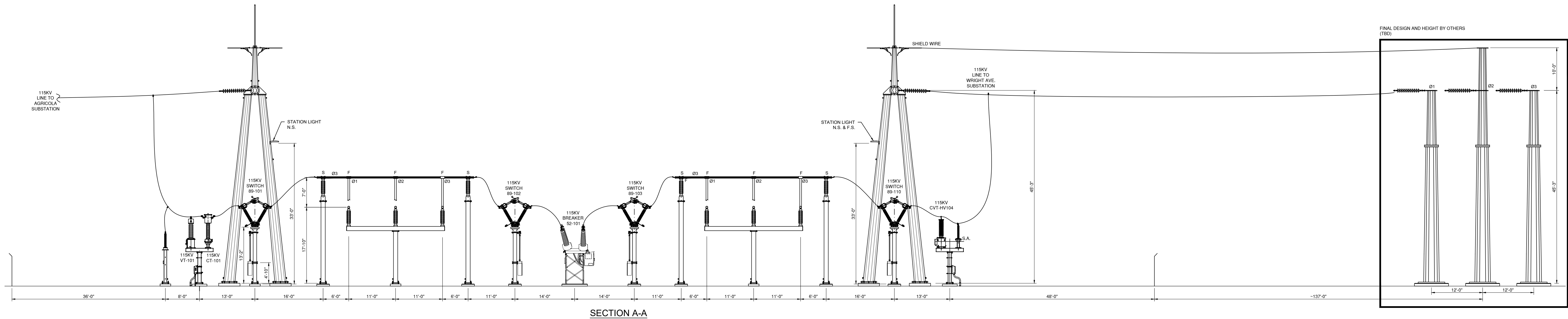
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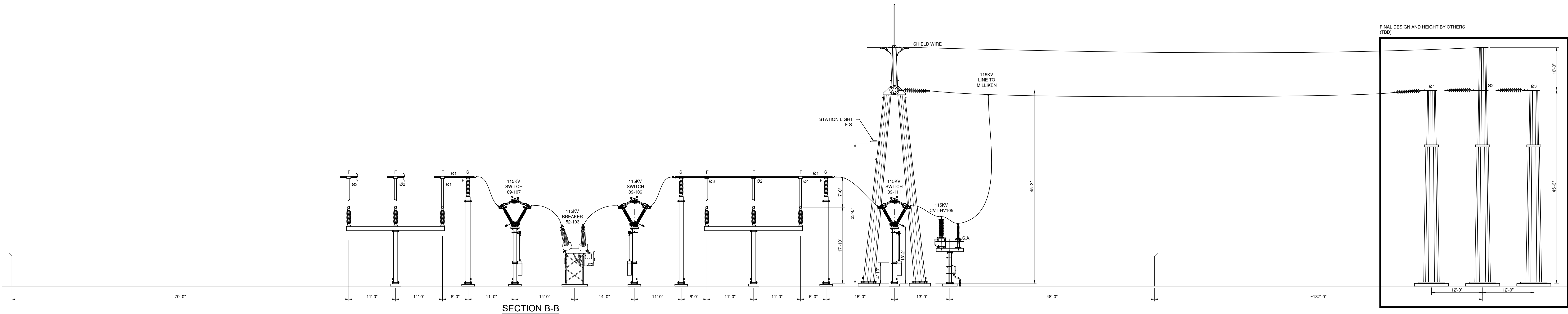
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LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
34.5KV COLLECTION SUBSTATION
GENERAL ARRANGMENT

PROJ. NO.	AGCL
DWG. NO.	AGCL-721
SH.	3
REV.	C
SCALE:	1/4" = 1'-0"



SECTION A-A



SECTION B-B

NOTE:
ALL LOW SUBSTATION STEEL STRUCTURES AND STEEL DEAD-END STRUCTURES
WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
TRANSMISSION LINE POLES IN THE UTILITY ROW ARE PLANNED TO BE
SELF-WEATHERING STEEL

LEGEND:

F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING

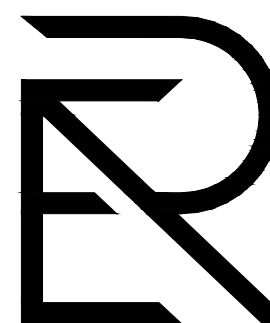
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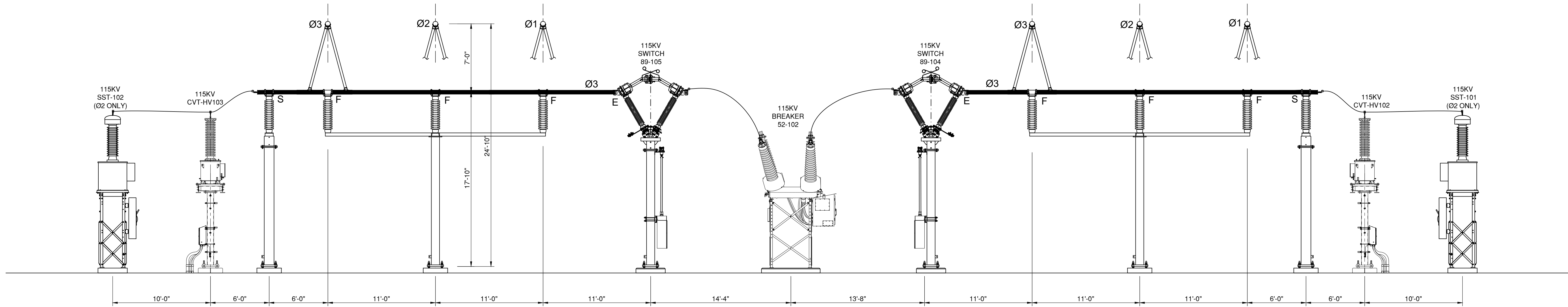
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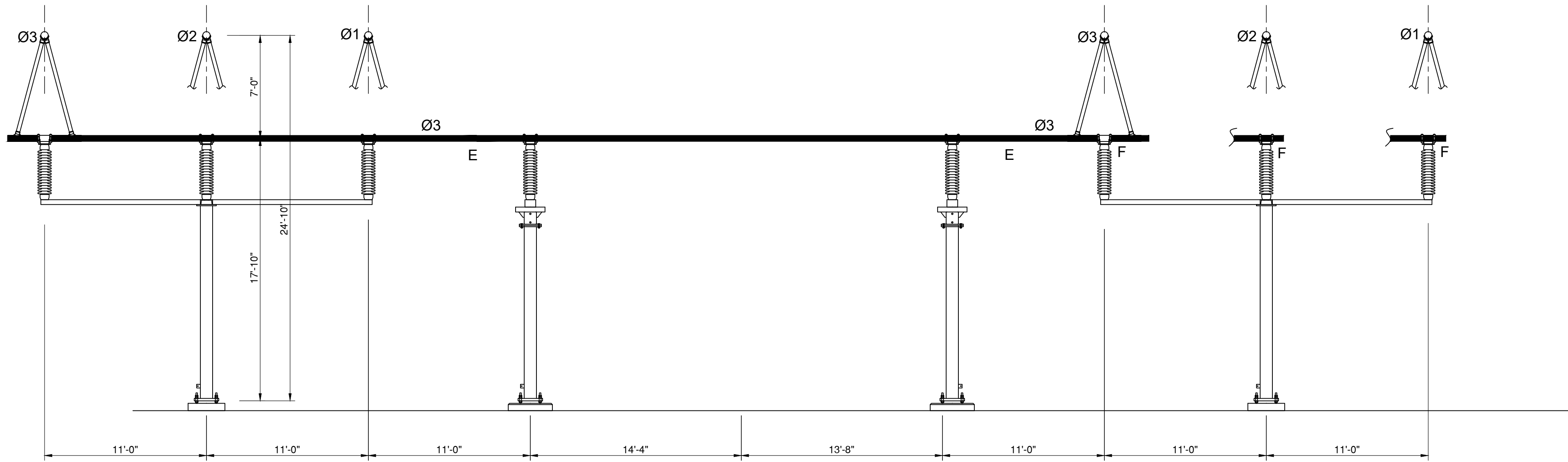
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AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
115KV NYSEG SWITCHYARD
ELEVATION VIEWS

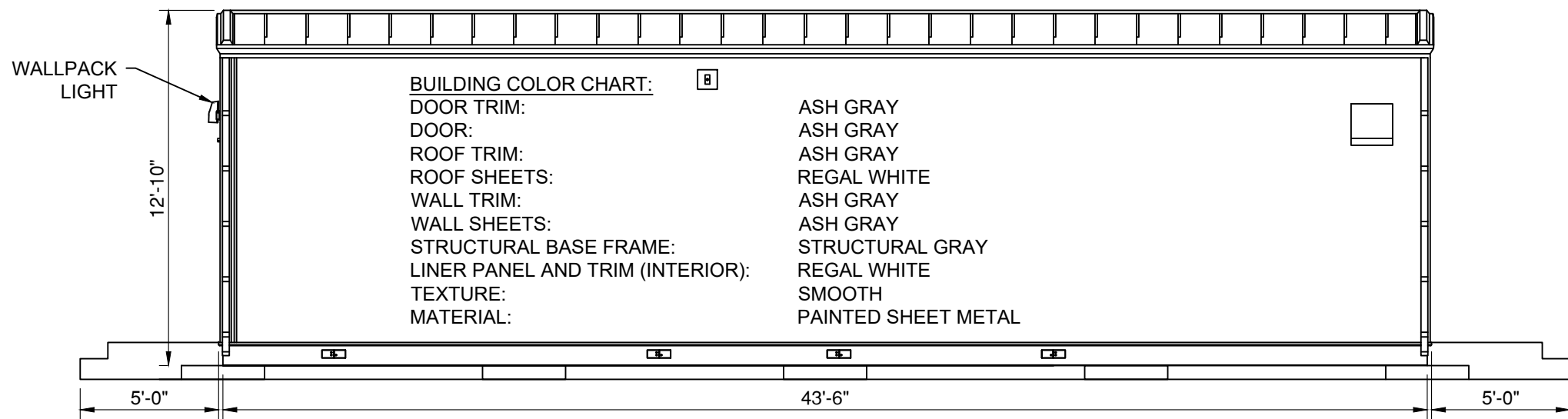
PROJ. NO.	AGCL
DWG. NO.	AGCL-721P
SH.	1
REV.	C
SCALE:	1/8" = 1'-0"



SECTION C-C



SECTION D-D



SECTION F-F

NOTE:
ALL LOW SUBSTATION STEEL STRUCTURES AND STEEL DEAD-END STRUCTURES
WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
TRANSMISSION LINE POLES IN THE UTILITY ROW ARE PLANNED TO BE
SELF-WEATHERING STEEL

LEGEND:

F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING

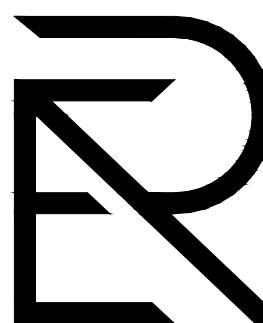
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C	08/16/2024	STEEL NOTE ADDED	TB	SR	SR	
B	06/04/2024	UDPATE CONTROL ENCLOSURE NOTES	TB	SR	SR	
A	03/20/2024	ISSUED FOR PERMIT-FOR REVIEW	TB	SR	SR	

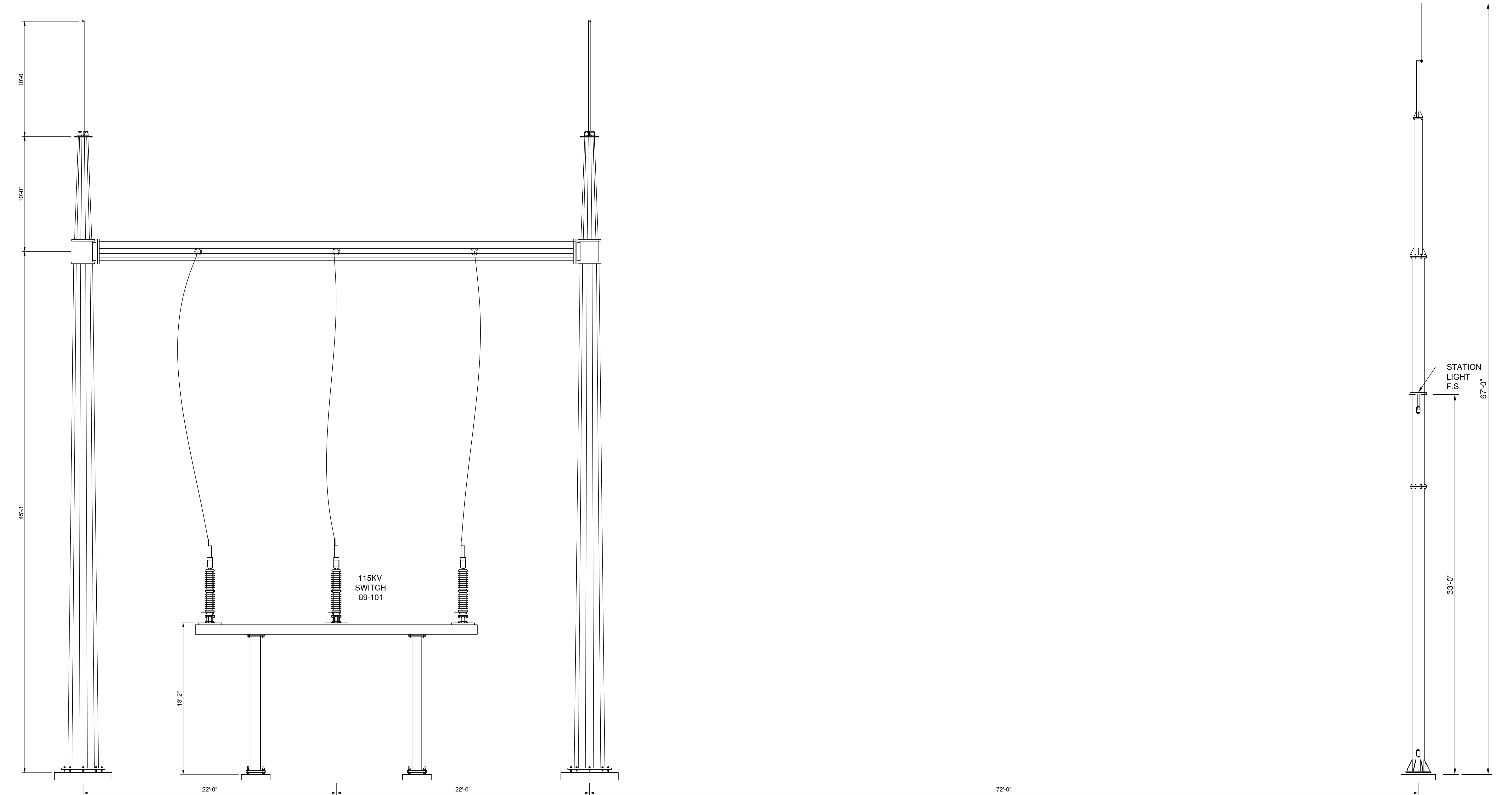
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AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
115KV NYSEG SWITCHYARD
ELEVATION VIEWS

PROJ. NO.	AGCL
DWG. NO.	AGCL-721P
SH.	2
REV.	C
SCALE:	3/32" = 1'-0"



NOTE:
ALL LOW SUBSTATION STEEL STRUCTURES AND STEEL DEAD-END STRUCTURES
WITHIN THE SUBSTATION FENCE ARE METALLIC GRAY GALVANIZED STEEL.
TRANSMISSION LINE POLES IN THE UTILITY ROW ARE PLANNED TO BE
SELF-WEATHERING STEEL

SECTION E-E
TYPICAL DEAD END BAY

LEGEND:

- F FIXED FITTING
S SLIP FITTING
E EXPANSION FITTING

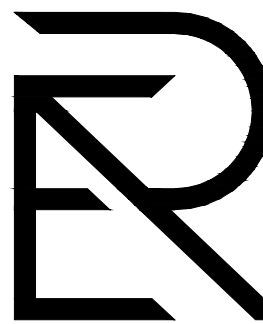
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B	08/16/2024	STEEL NOTE ADDED	TB	SR	SR	
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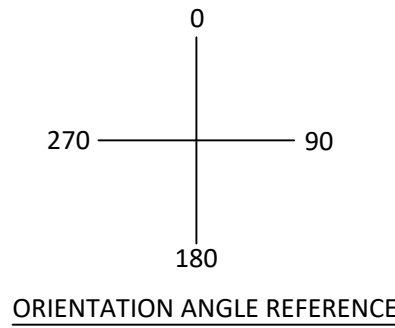


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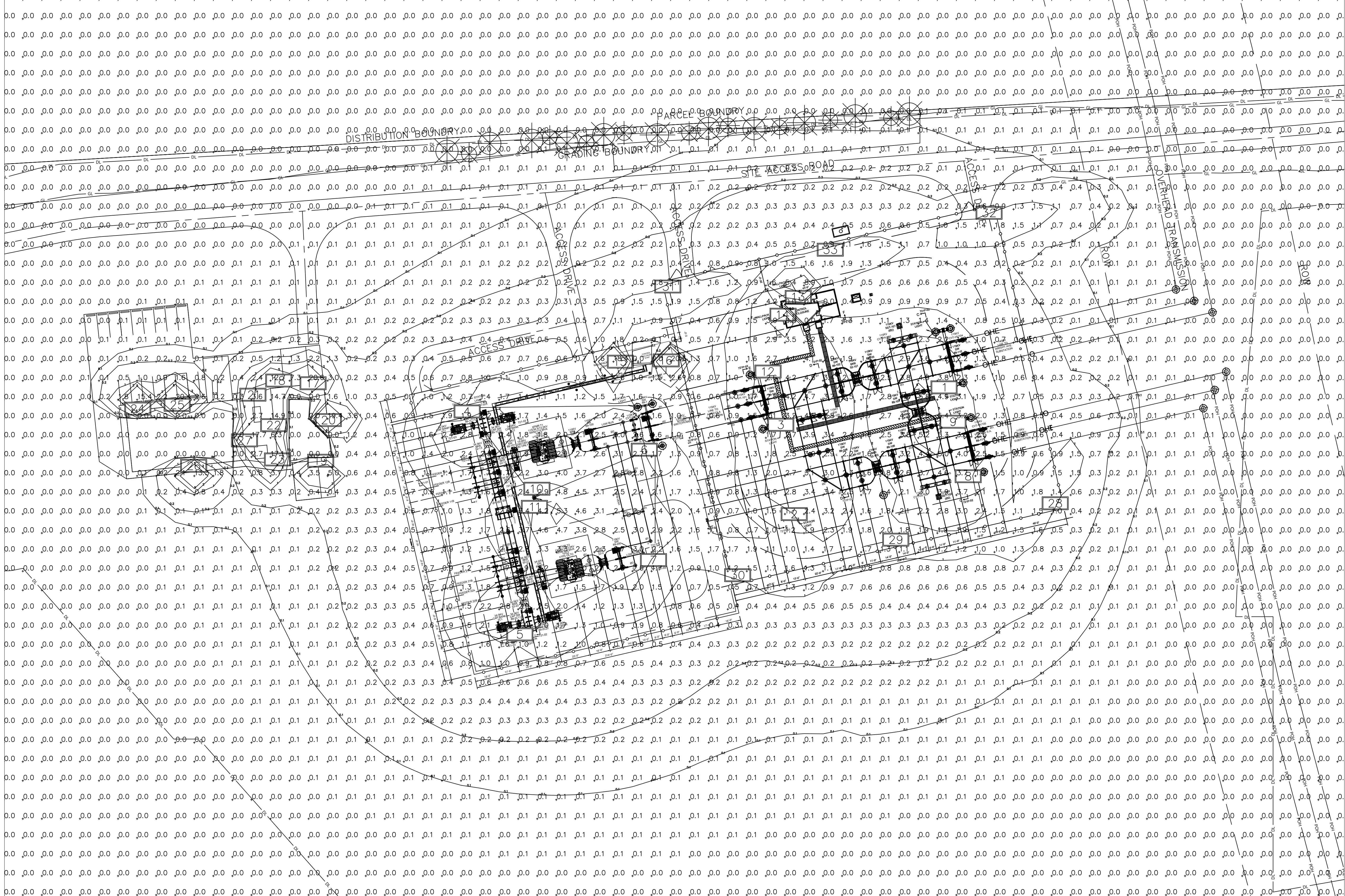
AGRICOLA WIND PROJECT - 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
115KV NYSEG SWITCHYARD
ELEVATION VIEWS

PREL NO:	AGCL
DWG NO:	AGCL-721P
SH:	3
REV:	C
SCALE:	3/32" = 1'-0"

NORTH



LUMINAIRE SCHEDULE						
LABEL	QTY	CATALOG NUMBER	DESCRIPTION	LAMP	LUMENS	WATTAGE
AREA LIGHTS	14	IVAT4-130LSF730U	TYPE IV, 130 LUMENS, SLIPFITTER MOUNTING, 3000K COLOR TEMP., 0-10V DIMMING	LED	13,237	117,311
CONTROL ENCLOSURE & O&M BUILDING LIGHTS	15	SLIMFC37 (FULL CUT-OFF HOOD)	CAST BROWN PAINTED METAL HOUSING, EXTRUDED 2-PIECE DIFFUSE METAL HEAT SINK, 1 WHITE CIRCUIT BOARD WITH 16 LEDs, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH, CLEAR FLAT PRISMATIC GLASS LENS IN CAST BROWN PAINTED METAL LENS FRAME WITH INTEGRAL VISOR. LENS PRISMS DOWN.	LED	4512	37
PERIMETER LIGHTS	6	AMERICAN ELECTRIC LIGHTING ATBMC P151 R2 3K HSS	AUTOBAHN MICRO P151 PACKAGE ROADWAY TYPE II 3000K HOUSE SIDE SHIELD	LED	3723	30



LUMINAIRE LOCATIONS				
LIGHT #	LABEL	MTG. HEIGHT	ORIENTATION	TILT ANGLE
1	AREA LIGHT	33'-0"	258	0
2	AREA LIGHT	33'-0"	38	0
3	AREA LIGHT	33'-0"	75	0
4	AREA LIGHT	33'-0"	165	0
5	AREA LIGHT	33'-0"	350	0
6	AREA LIGHT	33'-0"	255	0
7	AREA LIGHT	33'-0"	308	0
8	AREA LIGHT	33'-0"	259	0
9	AREA LIGHT	33'-0"	255	0
10	AREA LIGHT	33'-0"	80	0
11	AREA LIGHT	33'-0"	165	0
12	AREA LIGHT	33'-0"	78	0
13	CONTROL ENCLOSURE LIGHT	9'-0"	348	0
14	CONTROL ENCLOSURE LIGHT	9'-0"	258	0
15	CONTROL ENCLOSURE LIGHT	9'-0"	255	0
16	CONTROL ENCLOSURE LIGHT	9'-0"	165	0
17	O&M BUILDING LIGHT	9'-0"	348	0
18	O&M BUILDING LIGHT	9'-0"	0	0
19	O&M BUILDING LIGHT	9'-0"	180	0
20	O&M BUILDING LIGHT	9'-0"	78	0
21	O&M BUILDING LIGHT	9'-0"	255	0
22	O&M BUILDING LIGHT	9'-0"	261	0
23	O&M BUILDING LIGHT	9'-0"	270	0
24	O&M BUILDING LIGHT	9'-0"	0	0
25	O&M BUILDING LIGHT	9'-0"	0	0
26	O&M BUILDING LIGHT	9'-0"	180	0
27	O&M BUILDING LIGHT	9'-0"	78	0
28	PERIMETER LIGHT	25'-0"	302	0
29	PERIMETER LIGHT	25'-0"	341	0
30	PERIMETER LIGHT	25'-0"	18	0
31	PERIMETER LIGHT	25'-0"	161	0
32	PERIMETER LIGHT	25'-0"	165	0
33	PERIMETER LIGHT	25'-0"	165	0

STATION YARD LIGHTS SHALL BE NORMALLY OFF, AND TURNED ON MANUALLY ONLY AS NECESSARY FOR INTERMITTENT OPERATIONS, MAINTENANCE, OR EMERGENCY SITUATIONS.

ILLUMINATION NOTE:

THE ILLUMINATION LEVELS WITHIN THE SUBSTATION WERE ANALYZED TO MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL SAFETY CODE (NESC). THE DESIGN WAS ANALYZED AND CONFIRMED TO MEET THE REQUIREMENTS DEFINED IN THE NESC. THE REMOTE AREA HAD A MINIMUM ILLUMINATION VALUE OF 0.4 FOOTCANDLES COMPARED TO THE REQUIREMENTS OF 0.2 FOOTCANDLES. THE SWITCHES HAD A MINIMUM ILLUMINATION VALUE OF 2.4 FOOTCANDLES COMPARED TO THE REQUIREMENT OF 2.0 FOOTCANDLES.

REFERENCE DRAWINGS:

GENERAL ARRANGEMENT PLAN AGCL-720-01 & AGCL-720P-01

LEGEND:

— TREE/BRUSH COVERAGE
MODELED AND INCLUDED IN LIGHTING LEVEL CALCULATIONS.

NOT FOR CONSTRUCTION

PROPRIETARY INFORMATION

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REV.:	DATE:	DESCRIPTION OF REVISION:	DRAWN:	CHECKED:	APPROVED:	P.E. STAMP
C	08/23/2024	O&M BUILDING RELOCATED	TB	SR	SR	
B	06/04/2024	UPDATE TO 2 XFMR DESIGN (NEW SHEET)	TB	SR	SR	
A	03/20/2024	ISSUED FOR PERMIT-FOR REVIEW	TB	SR	SR	

DRAWING CREATED BY
SCOTT REYNOLDS, P.E.,
NEW YORK STATE

REYNOLDS
ARCHITECTURE
ENGINEERING
40 TAMARACK LANE
NYSKAYUNA, NY 12309
(518) 225-9473

AGRICOLA WIND PROJECT – 180MWAC
LIBERTY RENEWABLES INC.
2598 BURNS RD., VENIXCE, NY 13147, CAYUGA COUNTY
115/34.5kV POI AND COLLECTION SUBSTATION
STATION ILLUMINATION PLAN

PROJ. NO.:	AGCL		
DWG. NO.:	AGCL-731		
SH:	1	REV:	C
SCALE:	1" = 40'-0"		

IVAT4-130LPA730ZU

RAB



Low profile, low glare. Edge-lit technology unlike any other.

Color: Bronze Weight: 18.6 lbs

Project:	Type:
Prepared By:	Date:

Driver Info		LED Info	
Type	Constant Current	Watts	117W
120V	1.68A	Color Temp	3000K (Warm)
208V	0.58A	Color Accuracy	80 CRI
240V	0.50A	L70 Lifespan	100,000 Hours
277V	0.43A	Lumens	13,232 lm
Input Watts	117.3W	Efficiency	112.8 lm/W

Technical Specifications

Compliance UL Listed: Suitable for wet locations	Dimming Driver: Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit. Dims down to 10%.	Color Uniformity: RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.
IESNA LM-79 & LM-80 Testing: RAB LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80	THD: 3.48% at 120V, 5.48% at 277V	Construction Cold Weather Starting: The minimum starting temperature is -40°C (-40°F)
Title 24 Compliant: An VELDT edge-lit area light can be used with a motion sensor or photocell control option to comply with 2016 Title 24 Part 6 Section 130.2 (a,b,v)	Power Factor: 99.9% at 120V, 97% at 277V	Maximum Ambient Temperature: Suitable for use in up to 40°C (104°F)
IP Rating: Ingress protection rating of IP66 for dust and water	Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations at 25°C	Housing: Precision die-cast aluminum
DLC Listed: This product is listed by Design Lights Consortium (DLC) as an ultra-efficient premium product that qualifies for the highest tier of rebates from DLC Member Utilities. Designed to meet DLC S.1 requirements.	Wattage Equivalency: Equivalent to 450W Pulse Start Metal Halide	IES Classification: The Type IV distribution is especially suited for mounting on the sides of buildings and walk, and for illuminating the perimeter of parking areas. It produces a semicircular distribution with essentially the same candlepower at lateral angles from 90° to 270°.
DLC Product Code: S-EP8GJT	LED Characteristics LEDs: Long-life, high-efficiency, surface-mount LEDs	Mounting: Universal pole adapter
Electrical Driver: Class 2, 50/60Hz, 120-277V, 4kV standard, 10kV optional	Color Stability: LED color temperature is warranted to shift no more than 200K in color temperature over a 5-year period	Lens: Diffused Polymethyl Methacrylate (PMMA)

Need help? Tech help line: (888) 722-1000 Email: sales@rablighting.com Website: www.rablighting.com
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IVAT4-130LPA730ZU

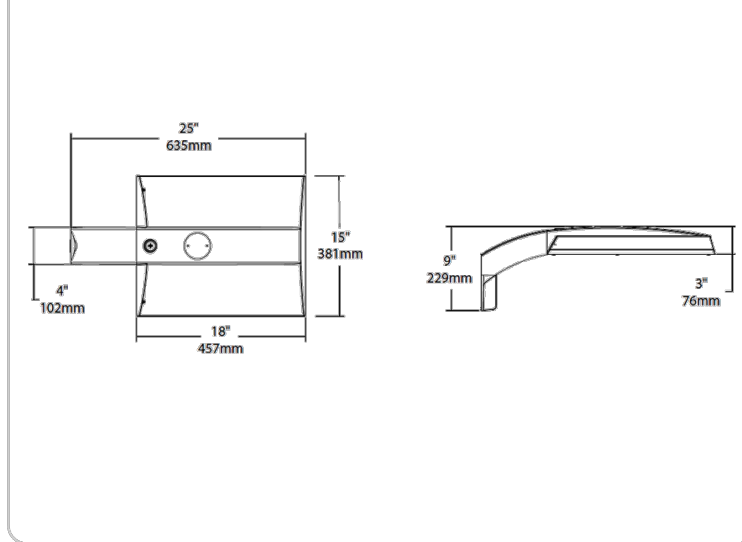
RAB

Technical Specifications (continued)

Effective Projected Area: EPA = 0.61
Finish: Formulated for high durability and long-lasting color
Green Technology: Mercury and UV free. RoHS-compliant components.
Optical BUG Rating: B3 U0 G3
Other Warranty: RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty .

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Dimensions



Features

0-10V Dimming, standard
100,000-Hour LED lifespan

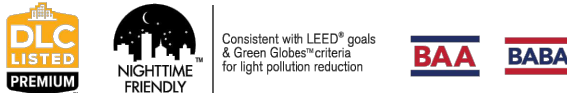
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IVAT4-130LPA730ZU

RAB

Ordering Matrix									
Family	Distribution	Lumen Output	Mounting	CRU/Color Temp	Finish	Voltage/Driver	Sensor Options	Lightcloud Option	
IVA	T4	-	130L	PA	730	Z	U		
T2 = Type II T3 = Type III T4 = Type IV T5 = Type V Square FT = Forward Throw		45L = 4,500lm (30W) 75L = 7,500lm (67W) 100L = 10,000lm (94W) 130L = 13,000lm (117W)	PA = Universal Pole Mount WM = Wall mount SF = Splitter	750 = 70CRI 3000K 740 = 70CRI 4000K 730 = 70CRI 3000K	Z = Bronze W = White G = Roadway Gray K = Black	U = 120-277V 0-10V Dimming H = 347-480V, 0-10V Dimming	Blank = No Options /WS = 8ft lens /WS2 = 20ft lens /WS3 = 40ft lens /WS4 = 40ft lens /WS5 = 7ft lens /WS6 = 7ft lens /WS7 = 7ft lens /WS8 = 7ft lens /WS9 = 7ft lens /WS10 = 7ft lens /WS11 = 7ft lens /WS12 = 7ft lens /WS13 = 7ft lens /WS14 = 7ft lens /WS15 = 7ft lens /WS16 = 7ft lens /WS17 = 7ft lens /WS18 = 7ft lens /WS19 = 7ft lens /WS20 = 7ft lens /WS21 = 7ft lens /WS22 = 7ft lens /WS23 = 7ft lens /WS24 = 7ft lens /WS25 = 7ft lens /WS26 = 7ft lens /WS27 = 7ft lens /WS28 = 7ft lens /WS29 = 7ft lens /WS30 = 7ft lens /WS31 = 7ft lens /WS32 = 7ft lens /WS33 = 7ft lens /WS34 = 7ft lens /WS35 = 7ft lens /WS36 = 7ft lens 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/WS984 = 7ft lens /WS985 = 7ft lens /WS986 = 7ft lens /WS987 = 7ft lens /WS988 = 7ft lens /WS989 = 7ft lens /WS990 = 7ft lens /WS991 = 7ft lens /WS992 = 7ft lens /WS993 = 7ft lens /WS994 = 7ft lens /WS995 = 7ft lens /WS996 = 7ft lens /WS997 = 7ft lens /WS998 = 7ft lens /WS999 = 7ft lens /WS1000 = 7ft lens /WS1001 = 7ft lens /WS1002 = 7ft lens /WS1003 = 7ft lens 		



Autobahn Series ATBMicro
Roadway Lighting

PRODUCT OVERVIEW



Features:

OPTICAL

The Autobahn's new molded silicone optics provide exceptional performance. Silicone optics are superior to other polymeric materials in the areas of: optical efficiency, thermal performance, and reduction in dirt accumulation, all of which can lead to long term lumen degradation and a shift in optical distribution. Also, because silicone allows for the molding of fine details as well as thick sections, it produces the most crisp, clean and well-defined lighting distributions available. Silicone optics paired with modern LEDs allow the Autobahn to take full advantage of both technologies.

Same Light: Performance is comparable to 70-150W HPS roadway luminaires.

White Light: Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, all 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing. Available in Type II, III, IIII, IV, and V roadway distributions.

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected of 40-60% over comparable HLD luminaires.

Robust Surge Protection: Two different surge protection options provide a minimum of ANSI C136.2 10kV/5kA protection. 20kV/10kA protection is also available.

Luminaire ships with a 0-10v dimmable driver. Luminaire is continuous and step dimming capable via AO option or controls installed on P7 photocontrol receptacle option.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 7 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Max arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter.

Provides a 3G vibration rating per ANSI C136.31

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle optionally available.

Premium solid state locking style photocontrol - PCSS (10 year rated life) Extreme long life solid state locking style photocontrol - PCLL (20 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

STANDARDS

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.dlcqualifies.org/DLC to confirm which versions are qualified.

Color temperatures of ≤ 5000K must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient
CSA Certified to U.S. and Canadian standards
Complies with ANSI C136.2, C136.3, C136.31, C136.35, C136.37

GOVERNMENT PROCUREMENT — BAA - Buy American) Act: Product with the BAA option qualifies as a domestic end-product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA - Build America Buy America) Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

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Autobahn Series ATBMicro
Roadway Lighting

PERFORMANCE PACKAGE

LLD @ 25°C										
ATBMc	R2, R3 Distributions 3000K & 4000K CCT			R2, R3 Distributions 2700K & 5000K CCT*			R3L, R4, & R5 Distributions Any CCT			
	50k Hours	75k Hours	100k Hours	50k Hours	75k Hours	100k Hours	50k Hours	75k Hours	100k Hours	
P101	0.96	0.95	0.94	0.92	0.88	0.85	0.92	0.88	0.85	
P102	0.96	0.95	0.94	0.92	0.88	0.85	0.92	0.88	0.85	
P103	0.96	0.95	0.93	0.92	0.88	0.85	0.92	0.88	0.85	
P104	0.96	0.95	0.93	0.92	0.88	0.85	0.92	0.88	0.85	
P105	0.96	0.95	0.93	0.92	0.88	0.85	0.92	0.88	0.85	
P106	0.96	0.95	0.93	0.92	0.88	0.84	0.92	0.88	0.84	
P151	0.96	0.95	0.94	0.92	0.88	0.85	0.92	0.88	0.85	
P152	0.96	0.95	0.93	0.92	0.88	0.85	0.92	0.88	0.85	
P153	0.96	0.95	0.94	0.91	0.88	0.85	0.91	0.88	0.85	
P154	0.96	0.95	0.93	0.91	0.88	0.84	0.91	0.88	0.84	
P155	0.96	0.95	0.94	0.91	0.87	0.83	0.91	0.87	0.83	
P156	0.96	0.95	0.93	0.91	0.87	0.83	0.91	0.87	0.83	

* Also includes any custom (non-catalog) CCT



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Autobahn Series ATBMicro
Roadway Lighting

ORDERING INFORMATION

Series	Performance Packages	Voltage	Optics
ATBMc Autobahn LED Roadway	P101 2,888 lumens nominal¹ P102 3,400 lumens nominal P103 4,016 lumens nominal P104 4,950 lumens nominal P105 5,897 lumens nominal P106 6,755 lumens nominal P151 4,320 lumens nominal P152 5,077 lumens nominal P153 6,041 lumens nominal P154 7,380 lumens nominal P155 8,158 lumens nominal P156 8,706 lumens nominal	MVOLT Multi-volt, 120-277V 347 347V ±1 480 480V ±1	R2 Roadway Type II R3 Roadway Type III R3L Roadway Type III Long R4 Roadway Type IV R5 Roadway Type V

Options			
Color Temperature (CCT)	UMR-GALV	8" Horizontal Arm for Round Pole, Galvanized	Notes
(Blank) 4000K CCT, 70 CRI Min.	UMS-GALV	8" Horizontal Arm for Square Pole, Galvanized	1 Not available in 347 or 480V.
27K 2700K CCT, 70 CRI Min.	PW#	Pre-wire, # indicates wire length in one foot increments from 1' thru 10' (e.g. PW4 = 4' of pre-wire)	2 Not available with NR.
3K 3000K CCT, 70 CRI Min.			3 Not available with P151 - P156 performance packages.
5K 5000K CCT, 70 CRI Min.			4 Not available with P101 performance package.
Paint (Blank)	Controls (Blank)	3 Pin NEMA Photocontrol Receptacle (Standard)	5 Must select MP surge protection option.
BL Black	P7*	7 Pin Photocontrol Receptacle (Dimmable Driver Included)	6 Not available with 347V or 480V.
BZ Bronze	NR	No Photocontrol Receptacle	
DB Dark Bronze	AO	Field Adjustable Output	
GI Graphite	PCSS	Solid State Lighting	
WH White	PCLL	Photocontrol (120-277V)	
GN Green	SH	State Long Life Photocontrol	
Surge Protection (Blank)	Standard 20kV/10kA SPD ¹		
MP	MOV Pack 10kV/5kA		
Terminal Block (Blank)	Terminal Block (Standard)		
Misc.	BL External Bubble Level		
HSS	House-Side Shield		
NL	Nema Label		
XL	Not CSA Certified		
UMR-XX	8" Horizontal Arm for Round Pole, Painted to match Fixture		
UMS-XX	8" Horizontal Arm for Square Pole, Painted to match Fixture		
BAA	Buy American(ri) Act and/or Build America Buy American Qualified		

Accessories:
House side shields for field installation
ATBMCP10XR2R3LRHSSS for use with P101 - P106, R2, R3L, & R5 distribution
ATBMCP10XR2R3LRHSS for use with P101 - P106, R3, R4 distribution
ATBMCP15XR2R3LRHSSS for use with P151 - P156, R2, R3L, & R5 distribution
ATBMCP15XR3HSSS for use with P151 - P156, R3 distribution
Light Trespass Side Shields
ATBMCHSLTS ATBMC House Side Light Trespass Shield
ATBMCSLSLT ATBMC Street Side Light Trespass Shield

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Autobahn Series ATBMicro
Roadway Lighting

B.U.G. Ratings

ATBMc	Distribution	2700K			3000K			4000/5000K		
		B	U	G	B	U	G	B	U	G
P101	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	1	1	0	1	1	0	1
	R4	1	0	1	1	0	1	1	0	1
	R5	2	0	1	2	0	1	2	0	1
P102	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	1	1	0	1	1	0	1
	R4	1	0	1	1	0	1	1	0	1
	R5	2	0	1	2	0	1	2	0	1
P103	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	1	1	0	1	1	0	1
	R4	1	0	1	1	0	1	1	0	1
	R5	3	0	1	3	0	1	3	0	1
P104	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	1	1	0	1	1	0	1
	R5	3	0	1	3	0	1	3	0	1
P105	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P106	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P151	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	1	1	0	1	1	0	1
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P152	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P153	R2	1	0	1	1	0	1	1	0	1
	R3	1	0	1	1	0	1	1	0	1
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P154	R2	1	0	2	1	0	2	1	0	2
	R3	1	0	2	1	0	2	1	0	2
	R3L	1	0	2	1	0	2	1	0	2
	R4	1	0	2	1	0	2	1	0	2
	R5	3	0	1	3	0	1	3	0	1
P155	R2	2	0	2	2	0	2	2	0	2
	R3	1	0	2	1	0	2	1	0	2
	R3L	1	0	2	2	0	2	2	0	2
	R4	1	0	2	2	0	2	2	0	2
	R5	3	0	2	3	0	2	3	0	2
P156	R2	2	0	2	2	0	2	2	0	2
	R3	1	0	2	1	0	2	1	0	2
	R3L	2	0	2	2	0	2	2	0	2
	R4	1	0	2	2	0	2	2	0	2
	R5	3	0	2	3	0	2	3	0	2



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Autobahn Series ATBMicro
Roadway Lighting

PERFORMANCE PACKAGE

ATBMc	Distribution	Input Watts	2700K			3000K			4000/5000K		
			Lumens	LPW		Lumens	LPW		Lumens	LPW	
P101	R2	20	2,855	134	2,733	137	2,910	148			
	R3		2,836	134	2,716	136	2,822	148			
	R3L		2,853	136	2,804	132	2,781	139			
	R4		2,834	136	2,648	133	2,751	144			
	R5		2,706	141	2,752	143	2,876	150			
P102	R2	25	3,116	126	3,153	127	3,277	137			
	R3		3,099	128	3,180	130	3,277	135			
	R3L		2,865	119	3,151	126	3,247	130			
	R4		2,801	121	2,829	119	3,158	128			
	R5		3,181	131	3,253	130	3,387	140			
P103	R2	29	3,654	125	3,731	127	3,962	135			
	R3		3,631	125	3,735	128	3,915	135			
	R3L		3,456	119	3,688	124	3,768	130			
	R4		3,508	121	3,698	120	3,715	128			
	R5		3,728	129	3,776	130	3,950	136			
P104	R2	37	4,425	116	4,457	120	4,593	130			
	R3		4,398	118	4,493	120	4,745	127			
	R3L		4,243	115	4,392	119	4,616	125			
	R4		4,278	118	4,278	117	4,553	125			
	R5		4,515	125	4,588	126	4,784	132			
P105	R2	45	5,216	116	5,407	118	5,712	127			
	R3		5,184	116	5,342	120	5,597	125			
	R3L		5,051	110	5,128	114	5,386	120			
	R4		5,042	113	4,940	110	5,343	119			
	R5		5,322	119	5,434	122	5,635	126			
P106	R2	53	5,893	114	5,843	114	6,510	121			
	R3		5,905	110	6,155	115	6,541	122			
	R3L		5,881	107	5,855	110	6,158	116			
	R4		5,853	111	5,728	110	6,181	118			
	R5		6,060	116	6,140	118	6,421	123			
P151	R2	43	4,082	103	4,025	133	4,227	142			
	R3		4,058	133	4,096	134	4,286	140			
	R3L		3,891	130	4,080	135	4,222	141			
	R4		4,145	138	4,236	138	4,352	144			
	R5		4,853	133	4,817	133	5,007	142			
P152	R2	43	4,655	133	4,605	132	5,086	145			
	R3		4,595	129	4,588	131	4,900	140			
	R3L		4,772	137	4,825	135	5,063	145			
	R4		5,176	120	5,811	130	5,962	138			
	R5		5,145	119	5,488	128	5,779	134			
P153	R2	43	5,262	132	5,461	132	5,746	134			
	R3		5,651	124	5,716	134	5,996	132			
	R3L		6,172	114	6,744	125	7,211	135			
	R4		5,135	134	5,732	129	6,057	131			
	R5		6,339	117	6,509	121	6,895	128			
P154	R2	61	6,287	117	6,674	123	6,873	124			
	R3		7,242	119	7,530	124	8,184	125			
	R3L		6,932	114	7,165	117	7,540	124			
	R4		7,286	125	7,385	125	7,858	133			
	R5		7,853	120	7,829	120	8,710	133			
P156	R2	65	7,988	120	7,782	119	8,217	126			
	R3		7,453	115	7,847	115	8,107	125			
	R3L		7,294	124	7,722	120	8,471	131			
	R4										
	R5										