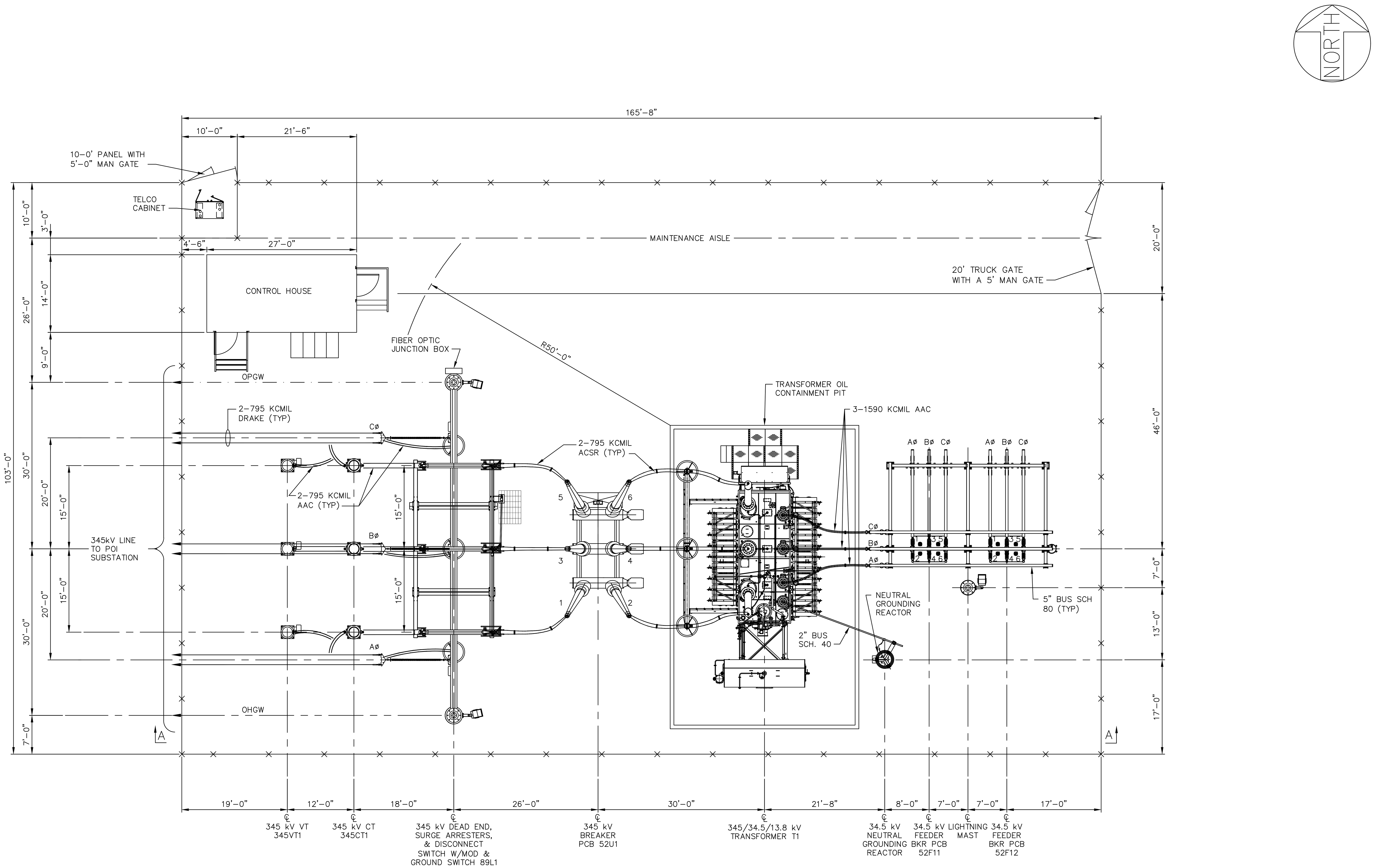
Appendix 11-3:

Electrical Design



ELECTRICAL CLEARANCES

DESCRIPTION	VOLTAGE CLASS SYSTEM	
OPERATING VOLTAGE	345 kV	34.5 kV
BIL	1300 kV	200 kV
CENTERLINE TO CENTERLINE FOR Φ TO Φ FOR RIGID BUS[1,4]	14'-6"	3-0"
MINIMUM Φ TO GROUND[1,4]	8'-1"	1'-3"
BOTTOM OF INSULATOR OR BUSHING PORCELAIN TO FDN. TOP[2,3,4]	8'-6"	8'-6"
VERTICAL CLEARANCE OF UNGUARDED LIVE PARTS TO FDN. TOP[2,3,4]	17'-9"	9'-6"
CLEARANCE FROM PERIMETER FENCE TO LIVE PARTS	19'-0"	10'-7"
HIGH BUS HEIGHT, BUS CENTERLINE ABOVE FDN.[2]	33'-6"	N/A
LOW BUS HEIGHT, BUS CENTERLINE ABOVE FDN.[2]	19'-0"	N/A

1. IEEE C37.30.1-2011
2. IEEE 1427
3. NESC, PART 1, SECTION 12
4. NESC, PART 2, TABLE 232-1

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

LEGEND

	STRUCTURE MOUNTED YARD LIGHTING
—— X ——	SUBSTATION FENCE
—— · —— · ——	OPGW WIRE

REFERENCE DRAWING

13666-076-E1-0101	SECTION A-A
13666-076-E1-0145	GROUNDING PLAN
13666-076-E1-0165	LIGHTING PLAN
13666-076-E1-0185	LIGHTNING PROTECTION PLAN
13666-076-E1-0300	CONTROL HOUSE PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1" = 10'-0"

0 10' 20'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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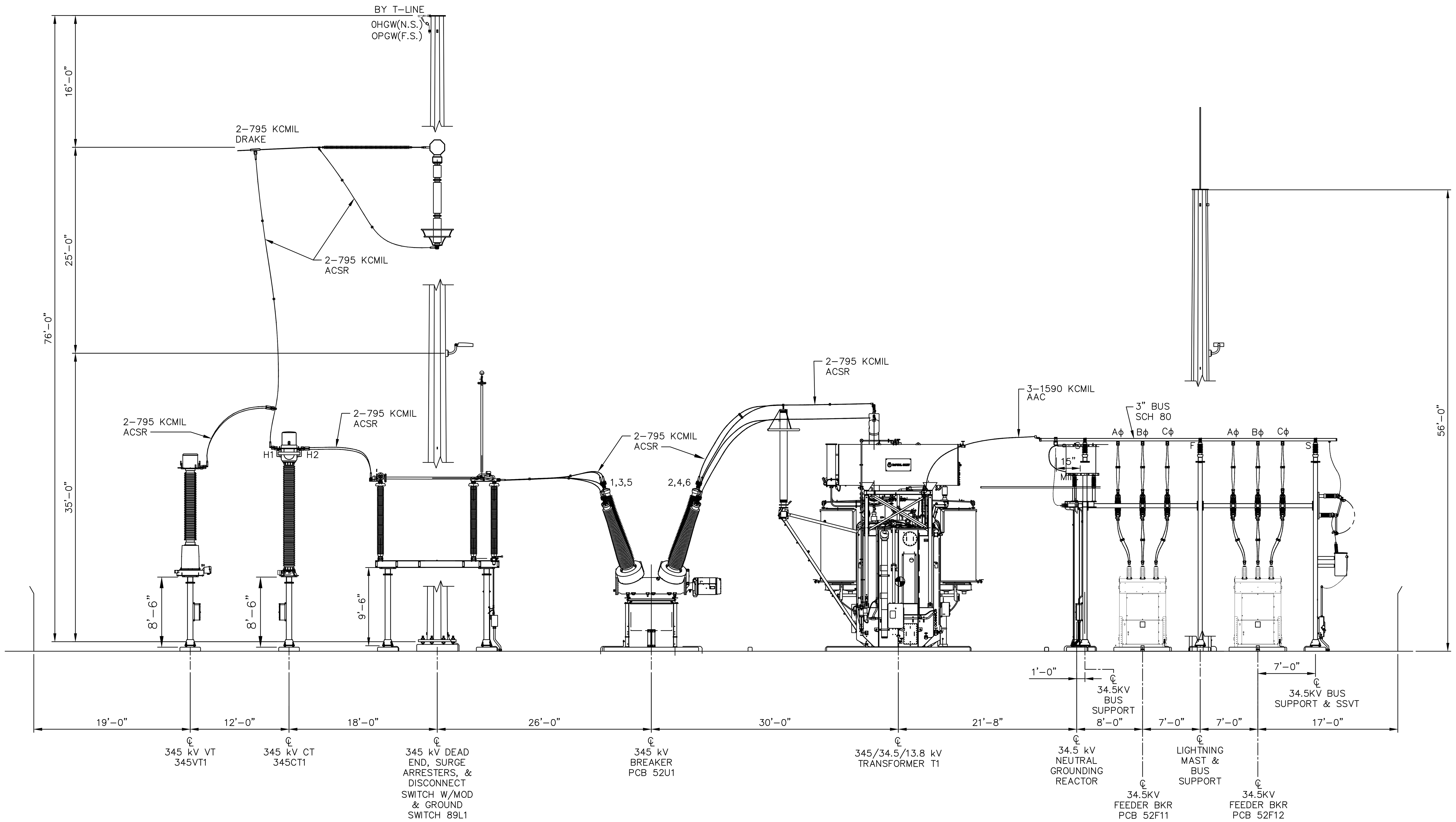
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345/34.5kV SUBSTATION
GENERAL ARRANGEMENT PLAN

13666-076-E1-0100



SECTION A–A
(13666–076–E1–0100)
SCALE: 1/8" = 1'-0"

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

LEGEND

F	FIXED BUS FITTING
S	SLIP BUS FITTING

REFERENCE DRAWINGS

13666–076–E1–0100 GENERAL ARRANGEMENT PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: AS NOTED

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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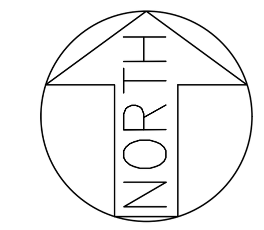
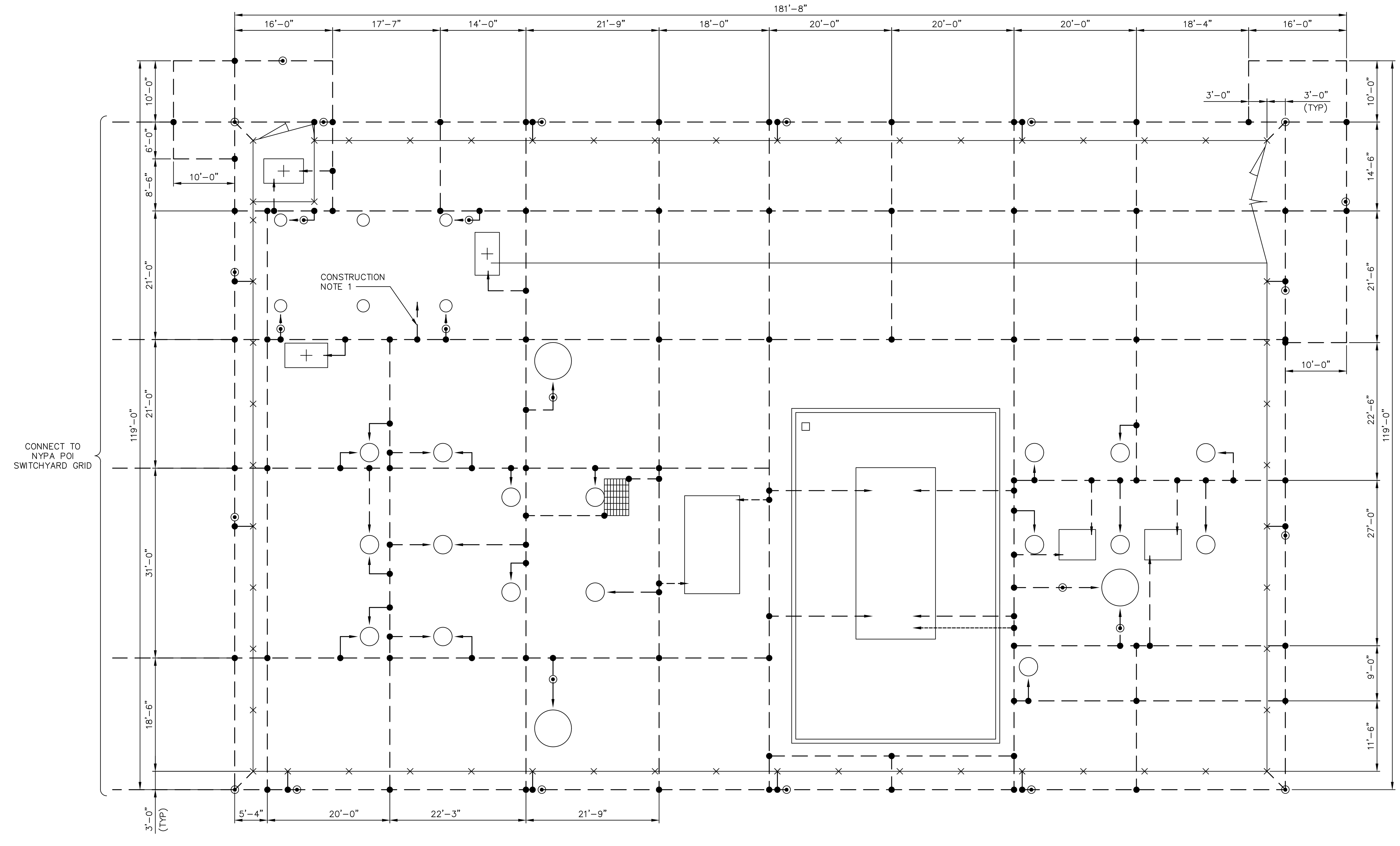
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
SECTION A-A

13666-076-E1-0101





HOLD FOR TEST RESULT

LEGEND

#4/0 S.D. COPPER GROUND CONDUCTOR

350 KCMIL CU INSULATED GROUND CABLE

GROUND CONDUCTOR STUB-UP PIGTAIL

GROUND CONDUCTOR BOND CONNECTION, CADWELD OR EQUAL

5/8" x 20' COPPER CLAD GROUND ROD

FENCE GROUND (CONNECT CONDUCTOR TO INSIDE OF FENCE & GATE POST AND MAKE SINGLE GROUND ROD CONNECTION).

GROUND CONDUCTOR CROSS CONNECTION, CADWELD OR EQUAL

SWITCH OPERATOR PLATFORM (6'x4')

INDICATES DETAIL NUMBER
INDICATES DRAWING NUMBER IN WHICH DETAIL APPEARS

GROUND GRID CRITERIA

GROUNDING SYSTEM DESIGN IS BASED ON THE FOLLOWING PARAMETERS:
- XXXX AMP, 34.5 kV SINGLE PHASE TO GROUND FAULT
- EARTH CURRENT SPLIT FACTOR OF XXXX DURING SUMMER , XXXX DURING WINTER.
- 0.3 SECOND FAULT CLEARING TIME
- MAINTAINED 3 INCHES OF 3000 OHM-METER SURFACING MATERIAL
- THREE LAYER SOIL MODEL

LAYER	RESISTIVITY	THICKNESS
TOP LAYER:	XXXX OHM-METERS	XXXX FEET
SECOND LAYER:	XXXX OHM-METERS	XXXX FEET
THIRD LAYER:	XXXX OHM-METER	INFINITE

UPON COMPLETION OF STATION GROUNDING SYSTEM, THE RESISTANCE OF MAT TO EARTH SHALL BE DETERMINED BY A THREE-ELECTRODE TEST METHOD. IF THE RESISTANCE TO REMOTE EARTH IS GREATER THAN XXXX OHMS, ADDITIONAL GROUNDING FACILITIES MAY BE REQUIRED.

GROUND GRID FIELD MEASUREMENT .xx OHMS

DATE TAKEN 00/00/00

CONSTRUCTION NOTES & DETAILS

1. CONTROL ENCLOSURE GROUND TO BE CONNECTED TO GROUND GRID THROUGH PULL BOX GROUND.
2. SEE FENCE GROUNDING DETAILS FOR GROUNDING GATES, POSTS, WIRE, FABRIC, ETC.
3. BURIAL DEPTH OF GROUND GRID SHALL BE 18" BELOW SUBGRADE.
4. ARRESTER GROUNDING CONNECTIONS SHALL BE LOOPED FORMING TWO PATHS TO THE GROUND GRID.
5. FOR NEUTRAL BUSHING GROUNDING USE 350 KCMIL 600 V INSULATED CU CABLE (ITEM G040).

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

REFERENCE DRAWING

13666-076-E1-0100	GENERAL ARRANGEMENT PLAN
13666-076-E1-0101	SECTION A-A
13666-076-E1-0185	LIGHTNING PROTECTION PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1" = 10'-0"

0 10' 20'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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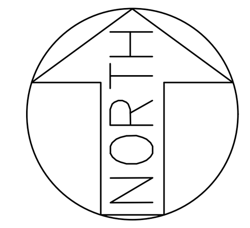
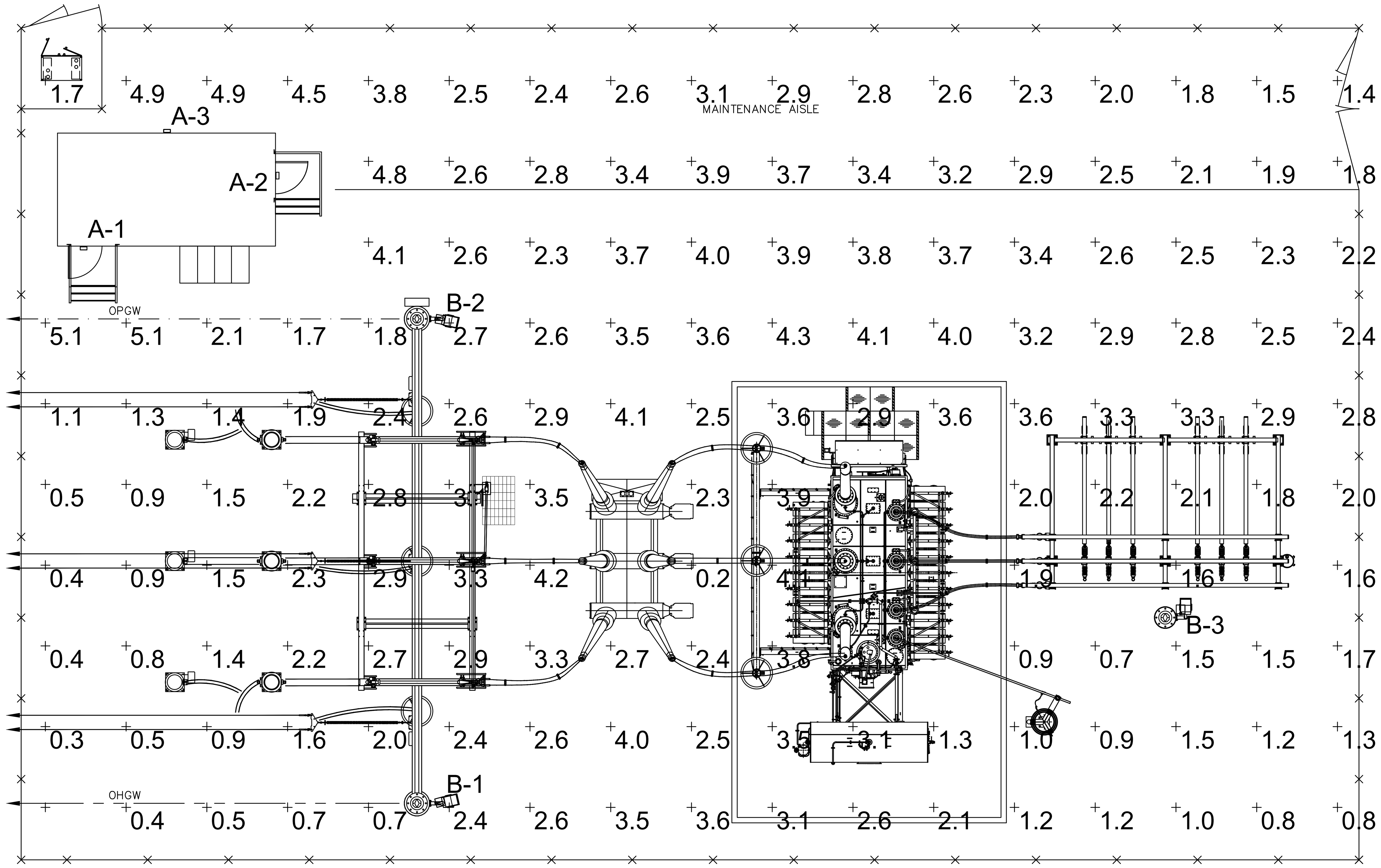
GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
GROUNDING PLAN

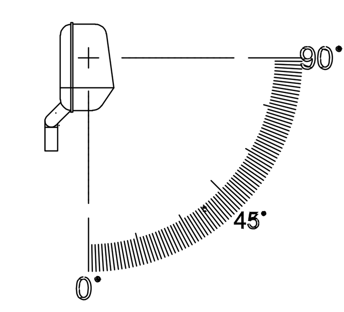
13666-076-E1-0145



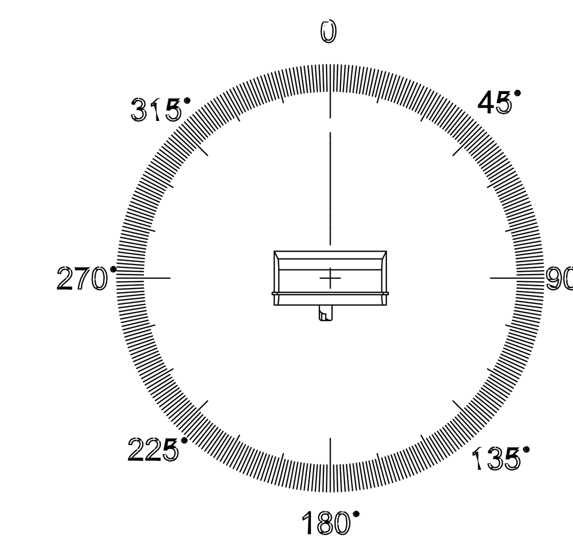
YARD LIGHTING SCHEDULE						
LIGHT NO.	TYPE	WATTAGE	MOUNTING HGT.	OREIENTATION	TILT	PNL/CCT
A-1	GE EVOLVE WALL MTD	25W	10Ft	180	0	--
A-2	GE EVOLVE WALL MTD	25W	10Ft	90	0	--
A-3	GE EVOLVE WALL MTD	25W	10Ft	0	0	--
B-1	GE EVOLVE AREA LT	239W	35Ft	75	0	--
B-2	GE EVOLVE AREA LT	239W	35Ft	100	0	--
B-3	GE EVOLVE AREA LT	239W	35Ft	0	0	--

STATISTICS - OVERALL SITE					
DESCRIPTION	SYMBOL	AVERAGE	MAXIMUM	MINIMUM	MAX/MIN
SITE	+	2.4 fc	5.1fc	0.2 fc	25.5 : 1





YARD LIGHT
TILT



YARD LIGHT
ORIENTATION ANGLE

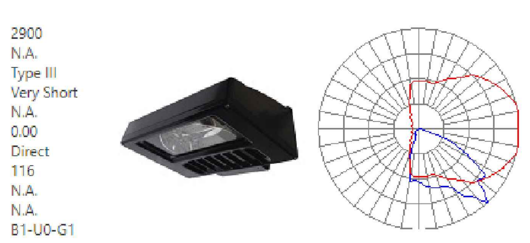
Photometric File Details

Filename: EWS3_A7D150____-120-277V.IES

More Information:

Classification:

Luminaire Lumens	2900
Efficiency	N.A.
IES Classification	Type III
Longitudinal Classification	Very Short
Cutoff Classification (deprecated)	N.A.
Upward Waste Light Ratio	0.00
CIE Type	Direct
Luminaire Efficacy Rating (LER)	116
NEMA Horizontal Beam	N.A.
NEMA Vertical Beam	N.A.
Bug Rating	B1-U0-G1



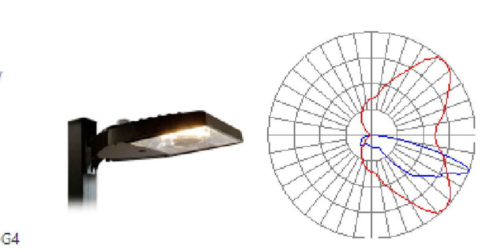
Photometric File Details

Filename: EALS03_K4AH750______.IES

More Information:

Classification:

Luminaire Lumens	29000
Efficiency	N.A.
IES Classification	Type IV
Longitudinal Classification	Short
Cutoff Classification (deprecated)	N.A.
Upward Waste Light Ratio	0.00
CIE Type	Direct
Luminaire Efficacy Rating (LER)	121
NEMA Horizontal Beam	N.A.
NEMA Vertical Beam	N.A.
Bug Rating	B3-U0-G4



HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

REFERENCE DRAWING

13666-076-E1-0100 GENERAL ARRANGEMENT PLAN
13666-076-E1-0101 SECTION A-A

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1" = 10'-0"

0 10' 20'

PREP:	BJS	CHKD:	FPH
APPD:	BPR	DATE:	02/05/21

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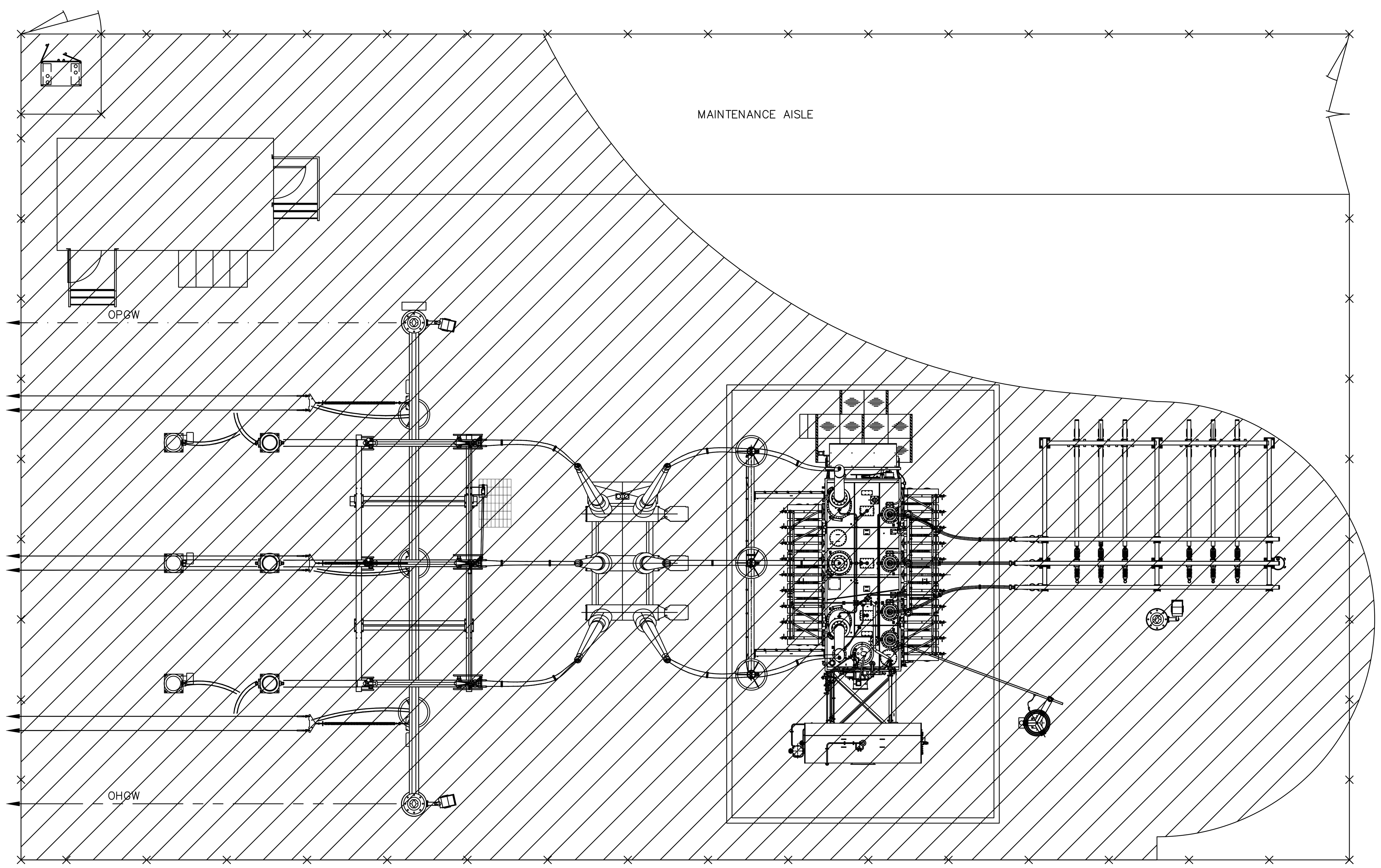
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
LIGHTING PLAN

13666-076-E1-0165



HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

LEGEND

—×—×—×— SUBSTATION FENCE

AREA PROTECTED USING FIXED ANGLE METHOD AT 19' AND ROLLING SPHERE AT 30'.

NOTES

1. DIRECT STROKE PROTECTION USING FIXED ANGLE METHOD. SHADED AREA REPRESENTS ZONE OF PROTECTION AT 25'.
2. SHIELD WIRE CONNECTED TO TRANSMISSION DEAD END ON BOTH SIDES.

REFERENCE DRAWING

13666-076-E1-0100 GENERAL ARRANGEMENT PLAN
13666-076-E1-0145 GROUNDING PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1" = 10'-0"

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PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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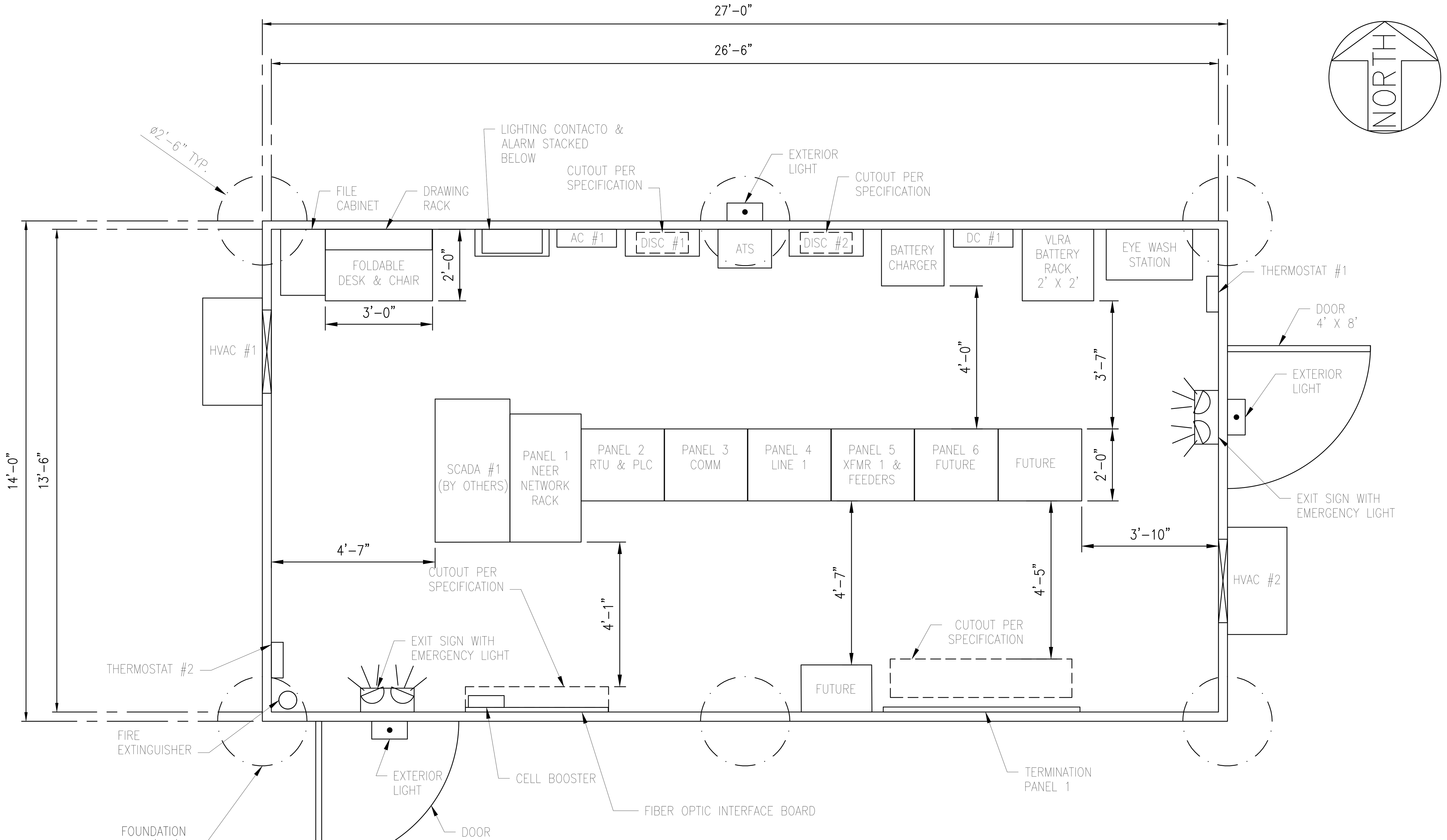
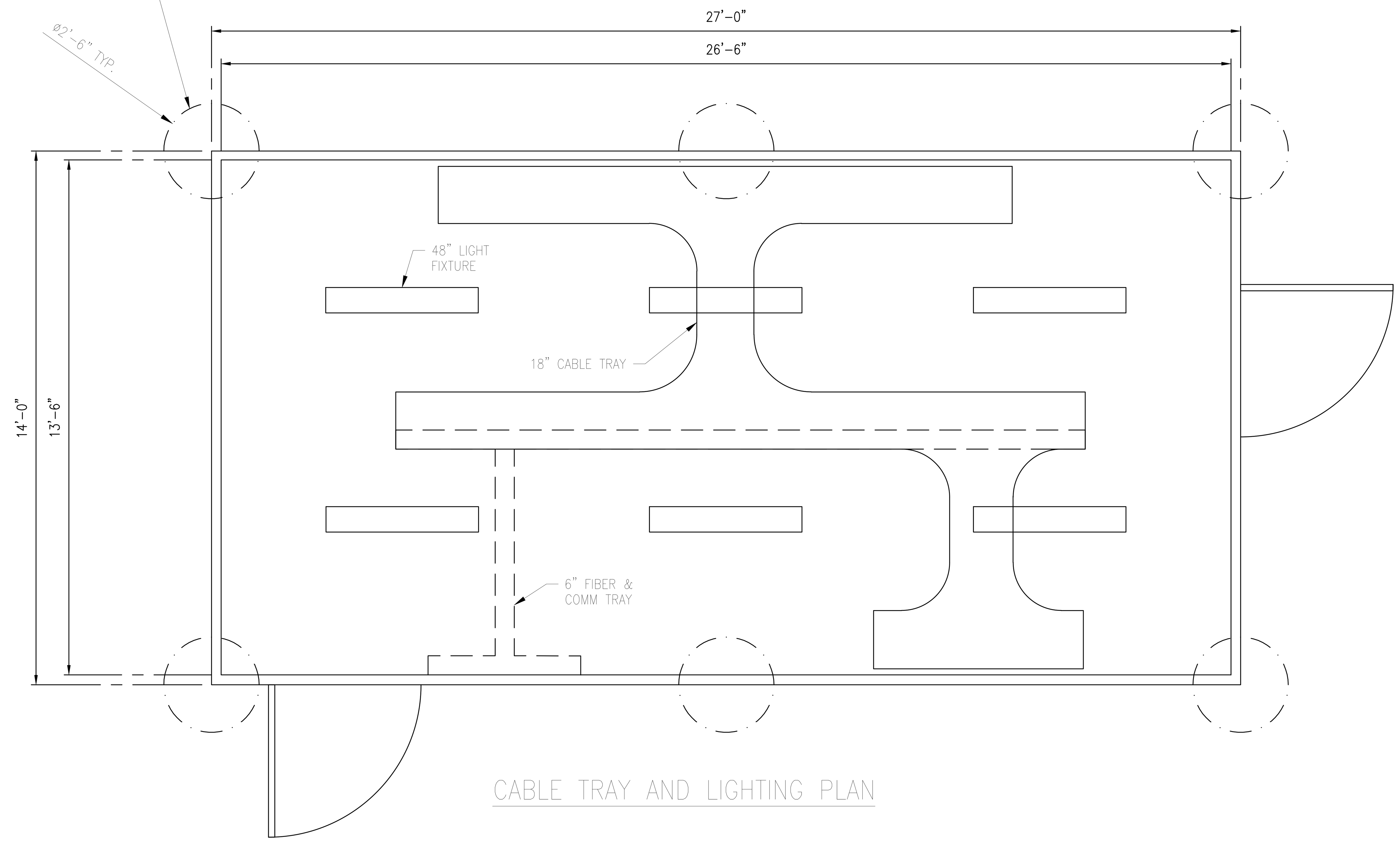
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
LIGHTNING PROTECTION PLAN

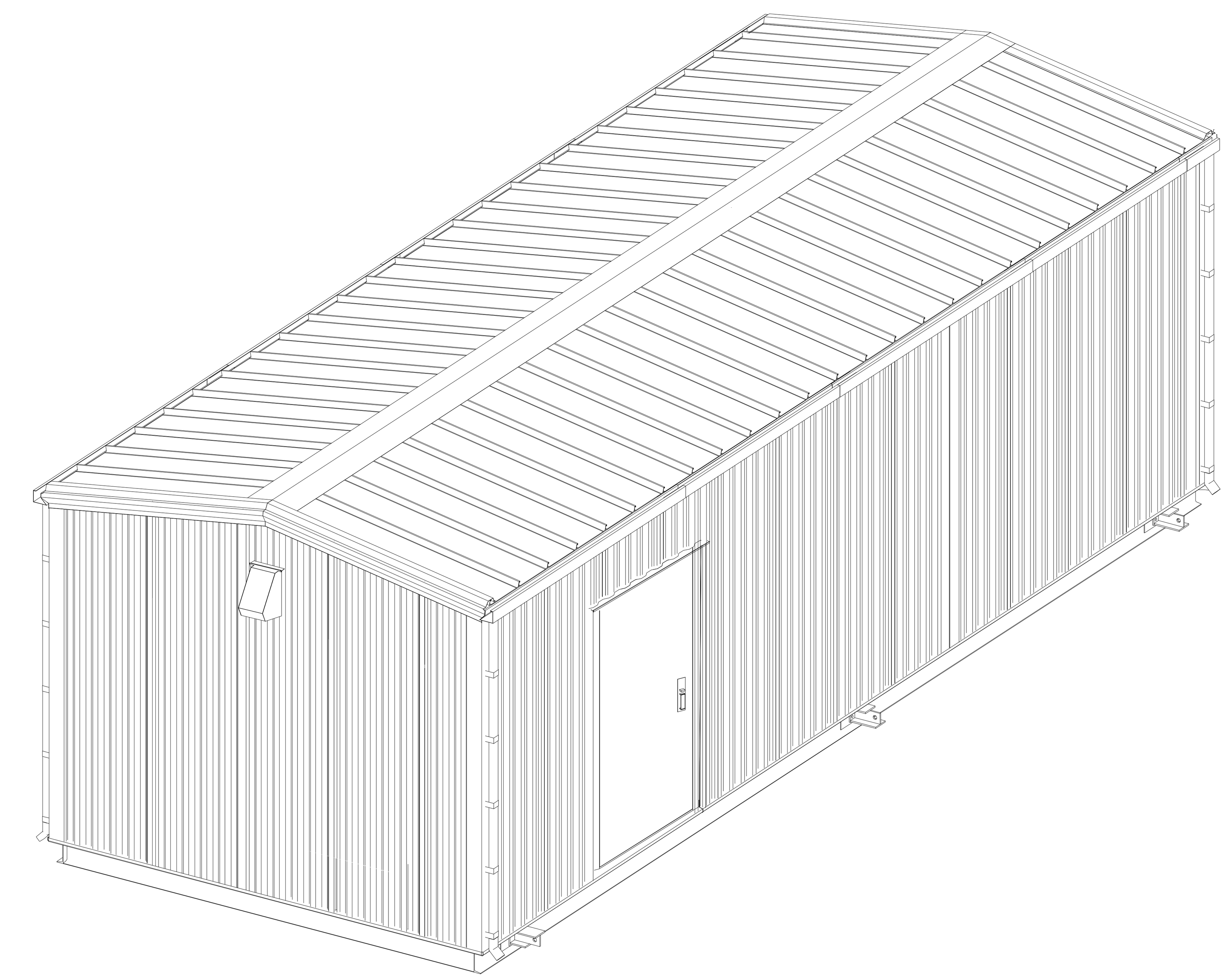
13666-076-E1-0185



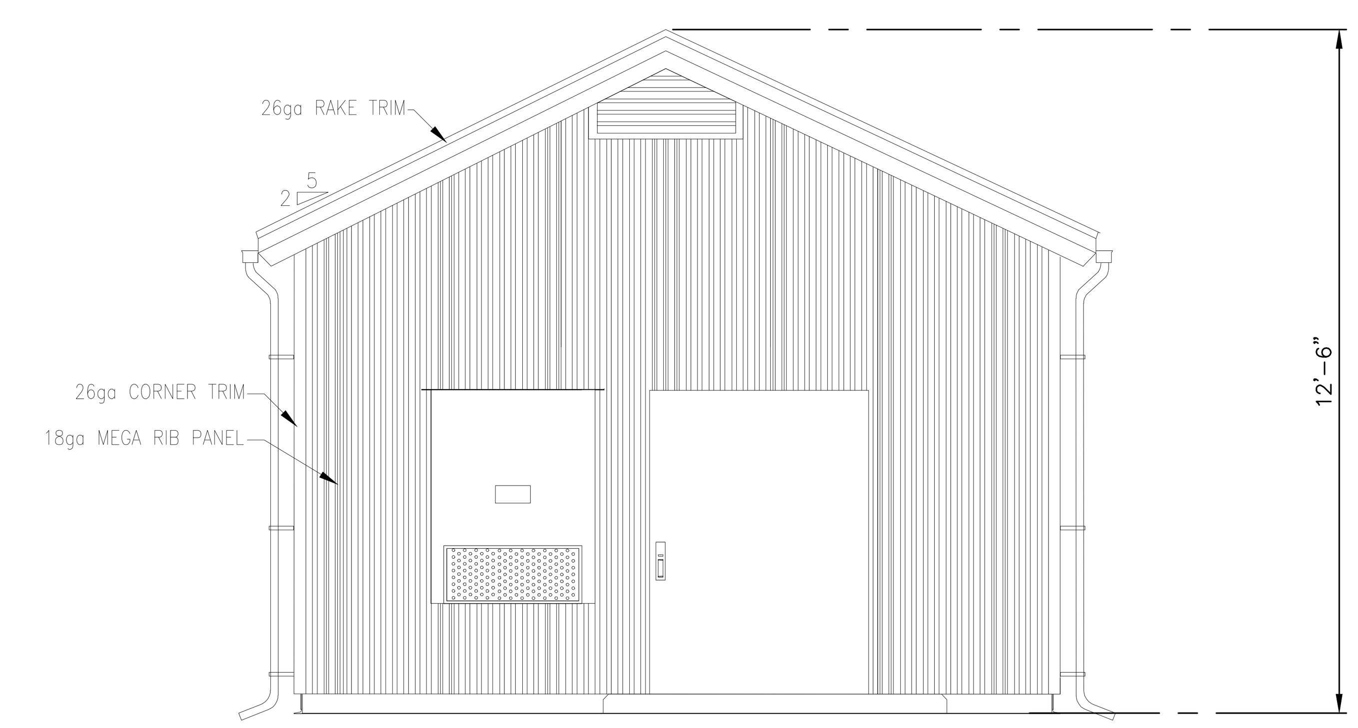
EQUIPMENT PLAN



CABLE TRAY AND LIGHTING PLAN



ISO VIEW



SECTION VIEW

NOTES

1. EQUIPMENT SHOWN IS FOR GENERAL LAYOUT PURPOSES ONLY. REFER TO CONTRACT DRAWING OR EQUIPMENT LAYOUT PLAN.
2. SIDING COLOR SHALL BE ANSI 70 SKY GRAY OR LIGHT BEIGE.

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
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SCALE: NONE

PREP:	BJS	CHKD:	FPH
APPD:	BPR	DATE:	02/05/21

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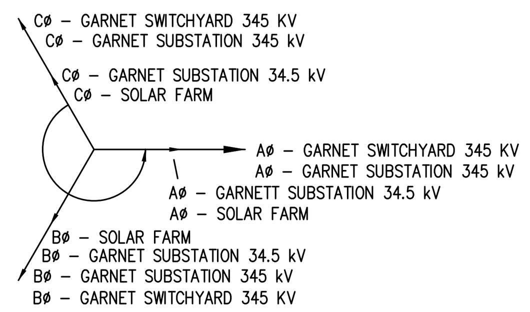
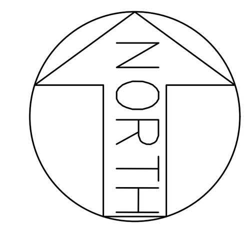
NEXTera ENERGY RESOURCES

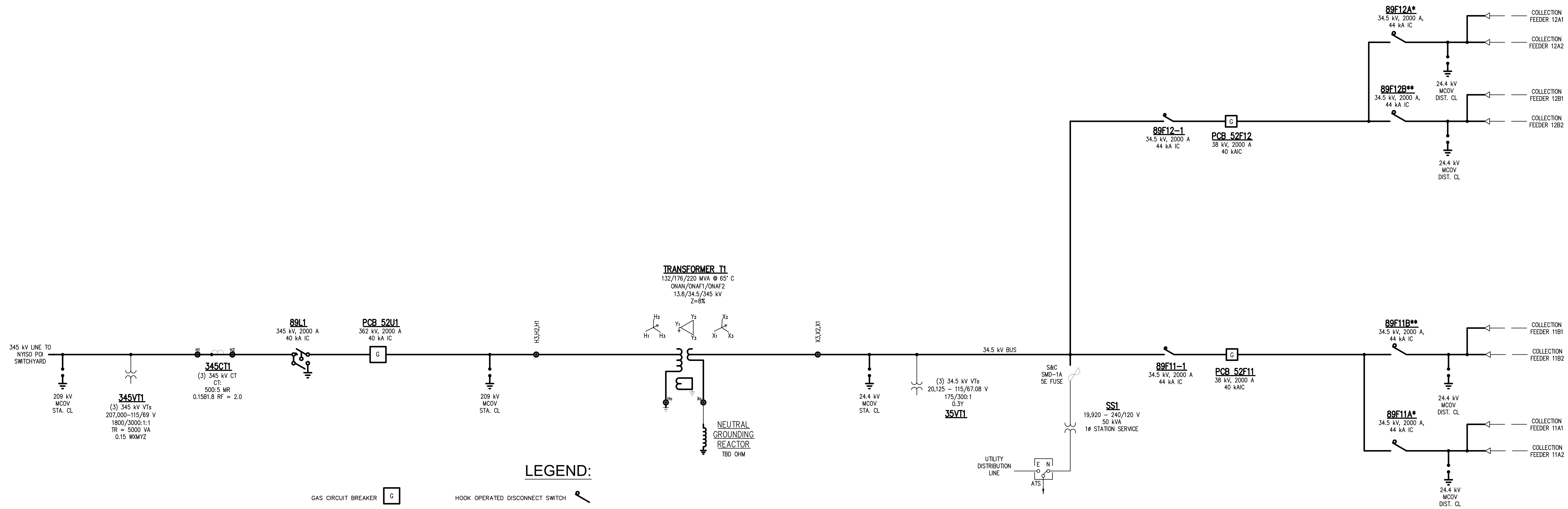
GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
CONTROL HOUSE PLAN

13666-076-E1-0300



VOLTAGE PHASORS





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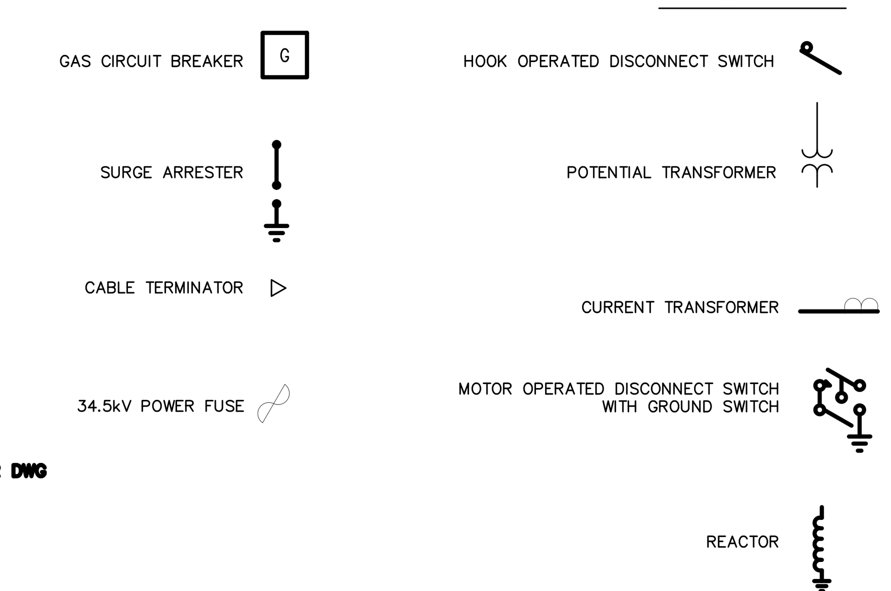

NOTES:

* – ON XFMR SIDE

** – ON FENCE SIDE

HOLD NOTES:

1. PENDING FINAL EQUIPMENT VENDOR DWG

PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	AU	TJ	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	AU	TJ	BPR	S&L

SCALE: NONE

PREP: AU CHKD: TJ

APPD: BPR DATE: 02/05/21

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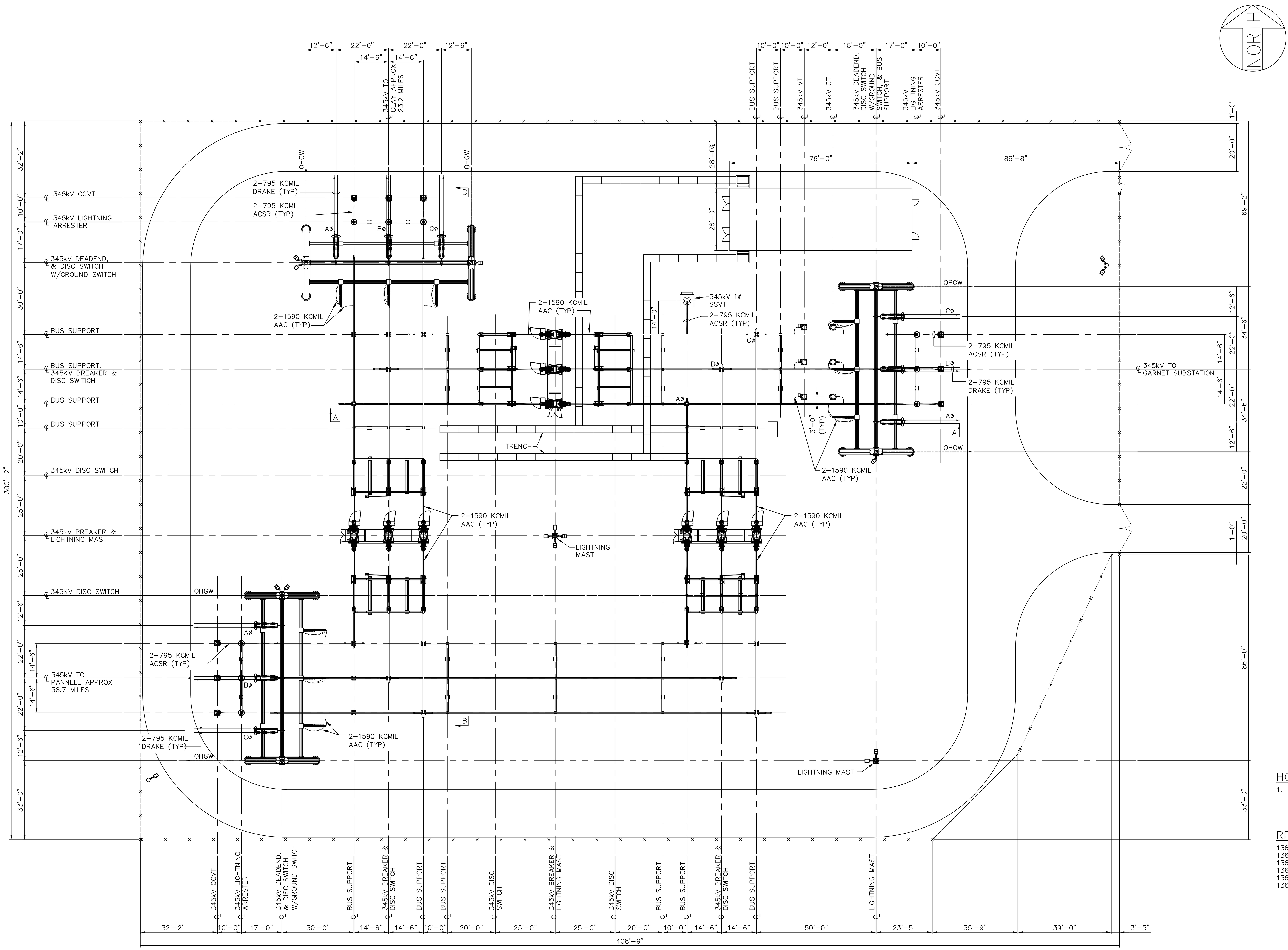
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345/34.5 kV SUBSTATION
ONE LINE DIAGRAM

13666-076-E1-1000



ELECTRICAL CLEARANCES

DESCRIPTION	VOLTAGE CLASS SYSTEM
OPERATING VOLTAGE	345 kV
BIL	1300 kV
CENTERLINE TO CENTERLINE FOR Φ TO Φ FOR RIGID BUS[1,4]	14'-6"
MINIMUM Φ TO GROUND[5]	8'-8"
BOTTOM OF INSULATOR OR BUSHING PORCELAIN TO FDN. TOP[2,3,4]	8'-6"
VERTICAL CLEARANCE OF UNGUARDED LIVE PARTS TO FDN. TOP[2,3,4]	17'-9"
CLEARANCE FROM PERIMETER FENCE TO LIVE PARTS[5]	18'-0"
HIGH BUS HEIGHT, BUS CENTERLINE ABOVE FDN.[5]	32'-6"
LOW BUS HEIGHT, BUS CENTERLINE ABOVE FDN.[5]	18'-0"

1. IEEE C37.30.1-2011
2. IEEE 1427
3. NESC, PART 1, SECTION 12
4. NESC, PART 2, TABLE 232-1
5. NYPA SUBSTATION DESIGN GUIDE, TABLE 4-7

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

REFERENCE DRAWING

13666-076-E1-0201	SECTION A-A
13666-076-E1-0202	SECTION B-B
13666-076-E1-0245	GROUNDING PLAN
13666-076-E1-0265	LIGHTING PLAN
13666-076-E1-0285	LIGHTNING PROTECTION PLAN
13666-076-E1-0400	CONTROL HOUSE PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1"=20'-0"

0 20' 40'

PREP:	BJS	CHKD:	FPH
APPD:	BPR	DATE:	02/05/21

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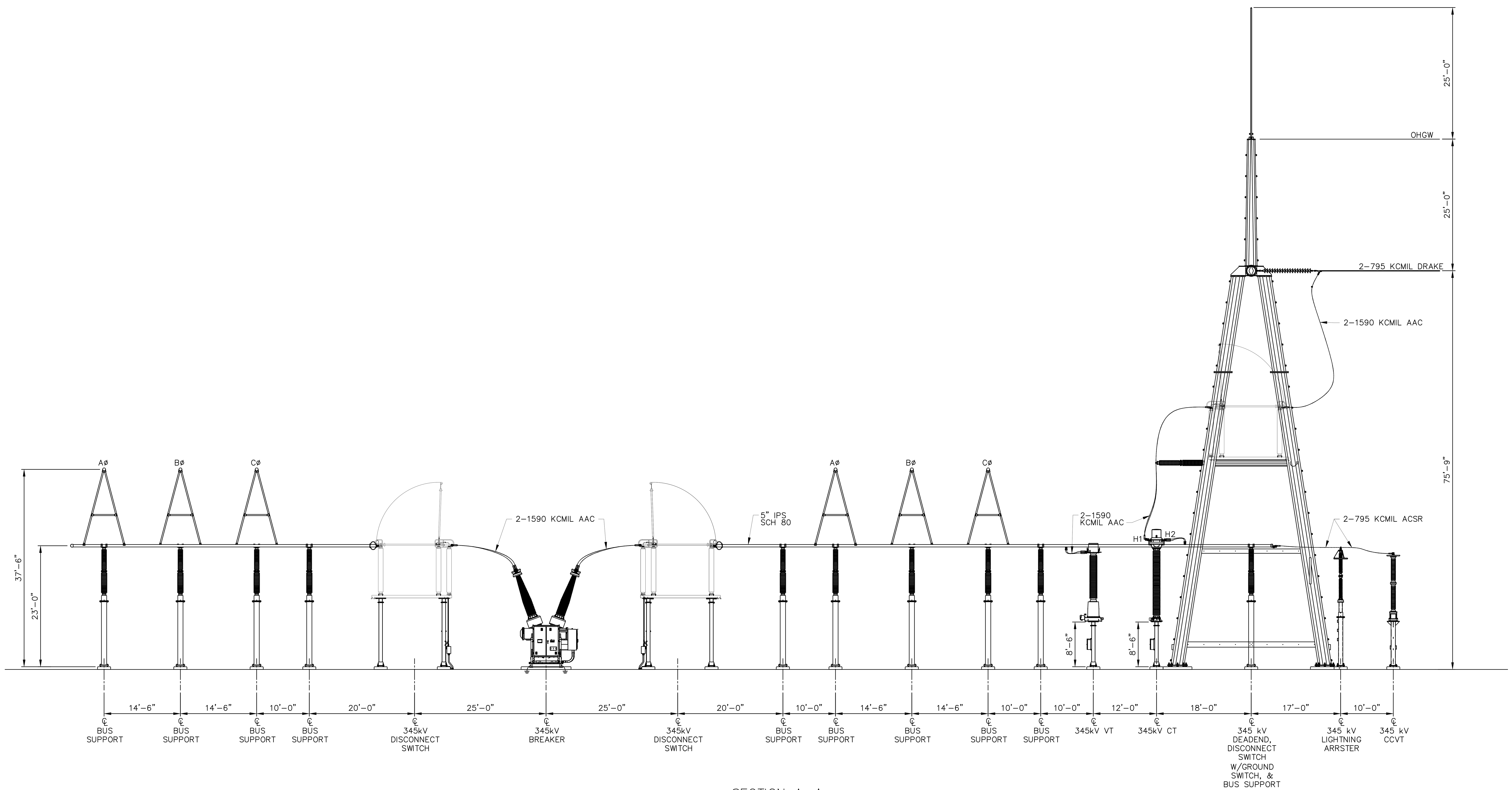
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
GENERAL ARRANGEMENT PLAN

13666-076-E1-0200



SECTION A-A
(13666-076-E1-0200)

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS.

REFERENCE DRAWING

13666-076-E1-0200 GENERAL ARRANGEMENT PLAN
13666-076-E1-0202 SECTION B-B

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE:

3/32" = 1'-0"

0 10' 20'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

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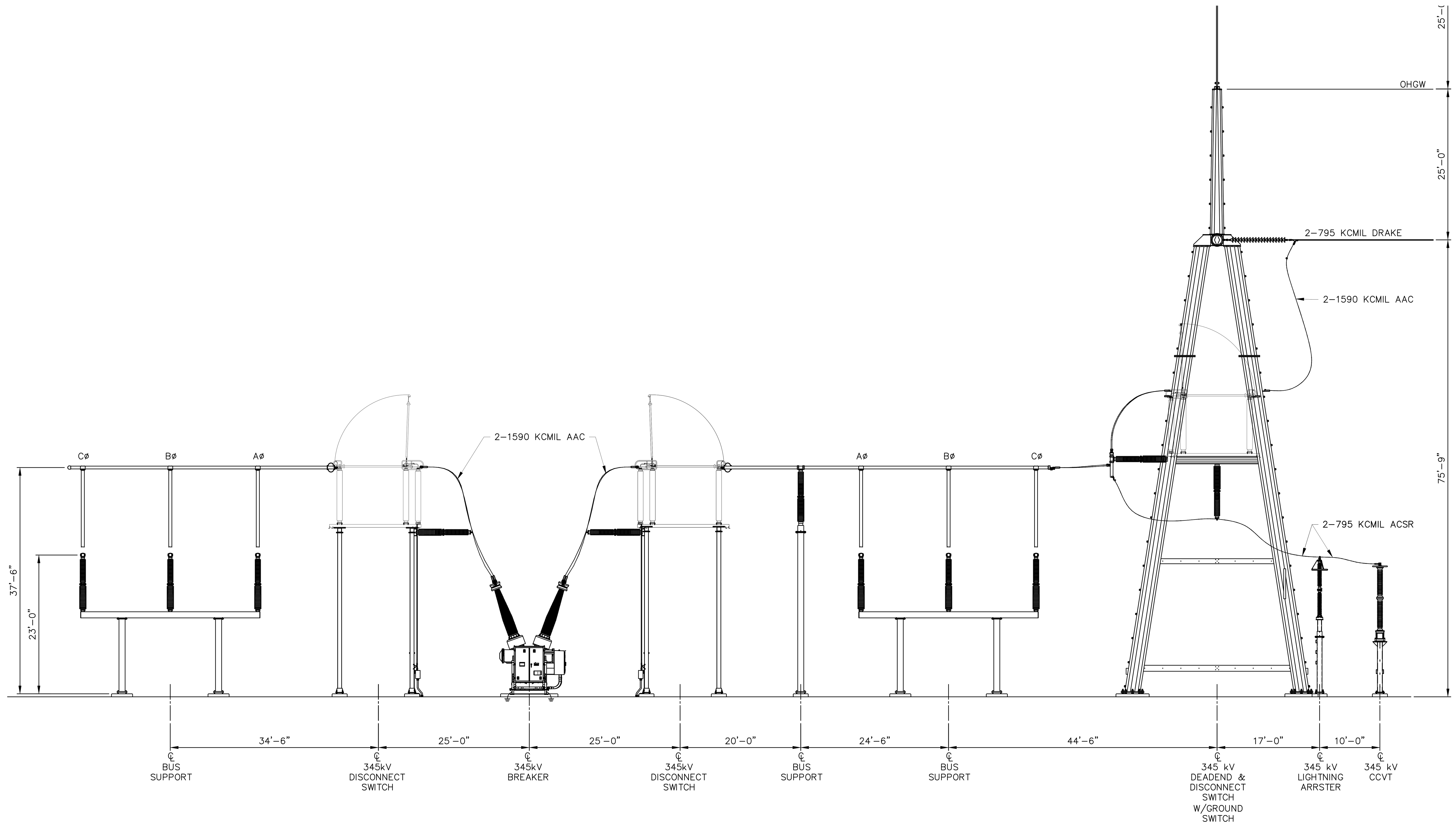
Sargent & Lundy LLC
55 EAST MONROE ST., CHICAGO, ILL.

NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
SECTION A-A

13666-076-E1-0201



SECTION B–B
(13666–076–E1–0200)

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS.

REFERENCE DRAWING

13666–076–E1–0200 GENERAL ARRANGEMENT PLAN
13666–076–E1–0201 SECTION A–A

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 3/32" = 1'-0"

0 10' 20'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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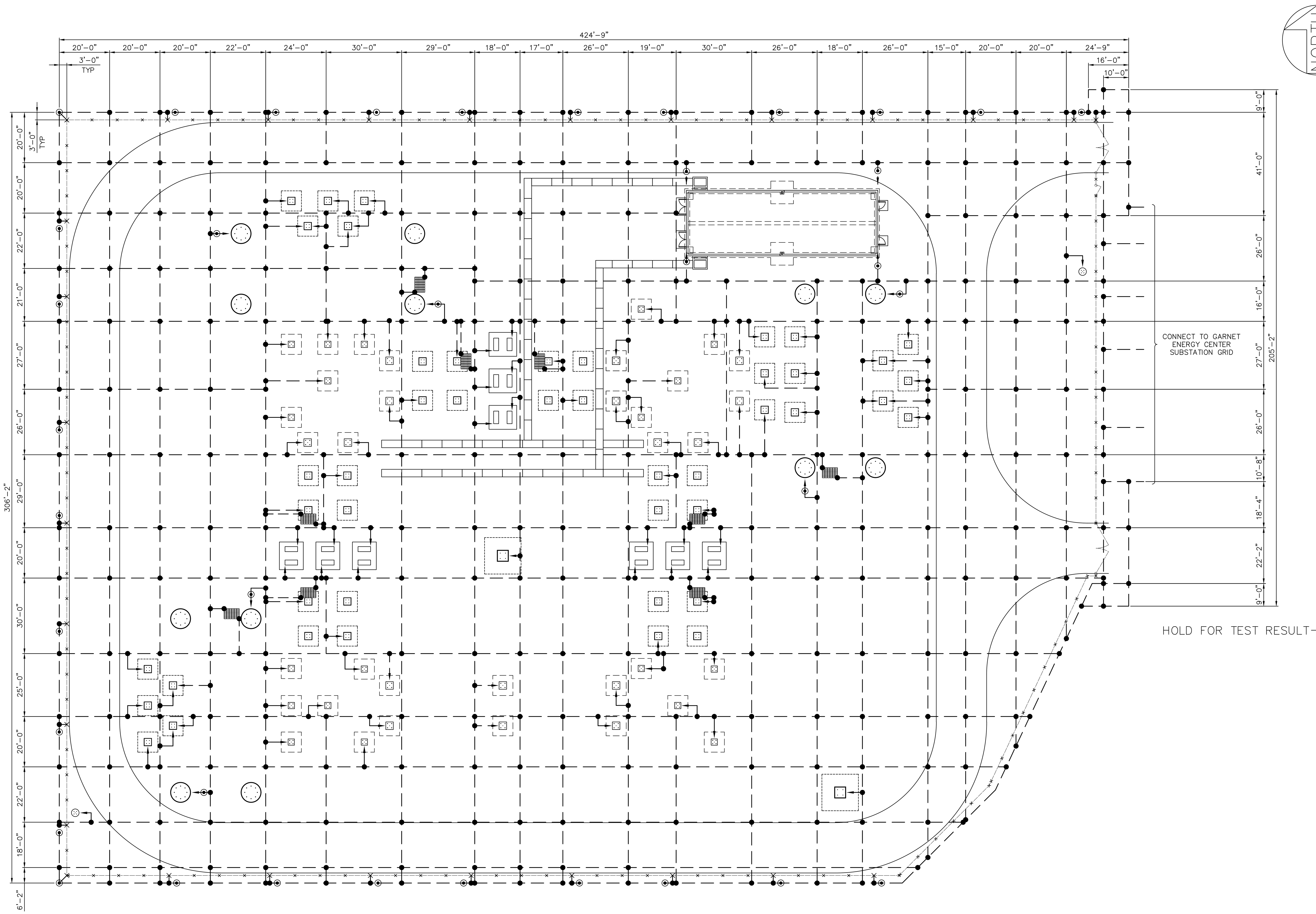
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
SECTIONS B-B

13666-076-E1-0202



LEGEND

- #4/0 S.D. COPPER GROUND CONDUCTOR
- GROUND CONDUCTOR STUB-UP PIGTAIL
- GROUND CONDUCTOR BOND CONNECTION, CADWELD OR EQUAL
- 5/8" x 20' COPPER CLAD GROUND ROD
- FENCE GROUND (CONNECT CONDUCTOR TO INSIDE OF FENCE & GATE POST AND MAKE SINGLE GROUND ROD CONNECTION).
- GROUND CONDUCTOR CROSS CONNECTION, CADWELD OR EQUAL
- SWITCH OPERATOR PLATFORM (6'x4')
- INDICATES DETAIL NUMBER
- INDICATES DRAWING NUMBER IN WHICH DETAIL APPEARS

GROUND GRID CRITERIA

GROUNDING SYSTEM DESIGN IS BASED ON THE FOLLOWING PARAMETERS:

- XXXX AMP, 34.5 kV SINGLE PHASE TO GROUND FAULT
- EARTH CURRENT SPLIT FACTOR OF XXXX DURING SUMMER , XXXX DURING WINTER.
- 0.3 SECOND FAULT CLEARING TIME
- MAINTAINED 3 INCHES OF 3000 OHM-METER SURFACING MATERIAL
- THREE LAYER SOIL MODEL

LAYER	RESISTIVITY	THICKNESS
TOP LAYER:	XXXX OHM-METERS	XXXX FEET
SECOND LAYER:	XXXX OHM-METERS	XXXX FEET
THIRD LAYER:	XXXX OHM-METER	INFINITE

UPON COMPLETION OF STATION GROUNDING SYSTEM, THE RESISTANCE OF MAT TO EARTH SHALL BE DETERMINED BY A THREE-ELECTRODE TEST METHOD. IF THE RESISTANCE TO REMOTE EARTH IS GREATER THAN XXXX OHMS, ADDITIONAL GROUNDING FACILITIES MAY BE REQUIRED.

GROUND GRID FIELD MEASUREMENT .xx OHMS

DATE TAKEN 00/00/00

CONSTRUCTION NOTES & DETAILS

1. CONTROL ENCLOSURE GROUND TO BE CONNECTED TO GROUND GRID THROUGH PULL BOX GROUND.
2. SEE FENCE GROUNDING DETAILS FOR GROUNDING GATES, POSTS, WIRE, FABRIC, ETC.
3. BURIAL DEPTH OF GROUND GRID SHALL BE 18" BELOW SUBGRADE.
4. ARRESTER GROUNDING CONNECTIONS SHALL BE LOOPED FORMING TWO PATHS TO THE GROUND GRID.

HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS

REFERENCE DRAWING

13666-076-E1-0200 GENERAL ARRANGEMENT PLAN
13666-076-E1-0185 LIGHTNING PROTECTION PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: 1"=20'-0"

0 20' 40'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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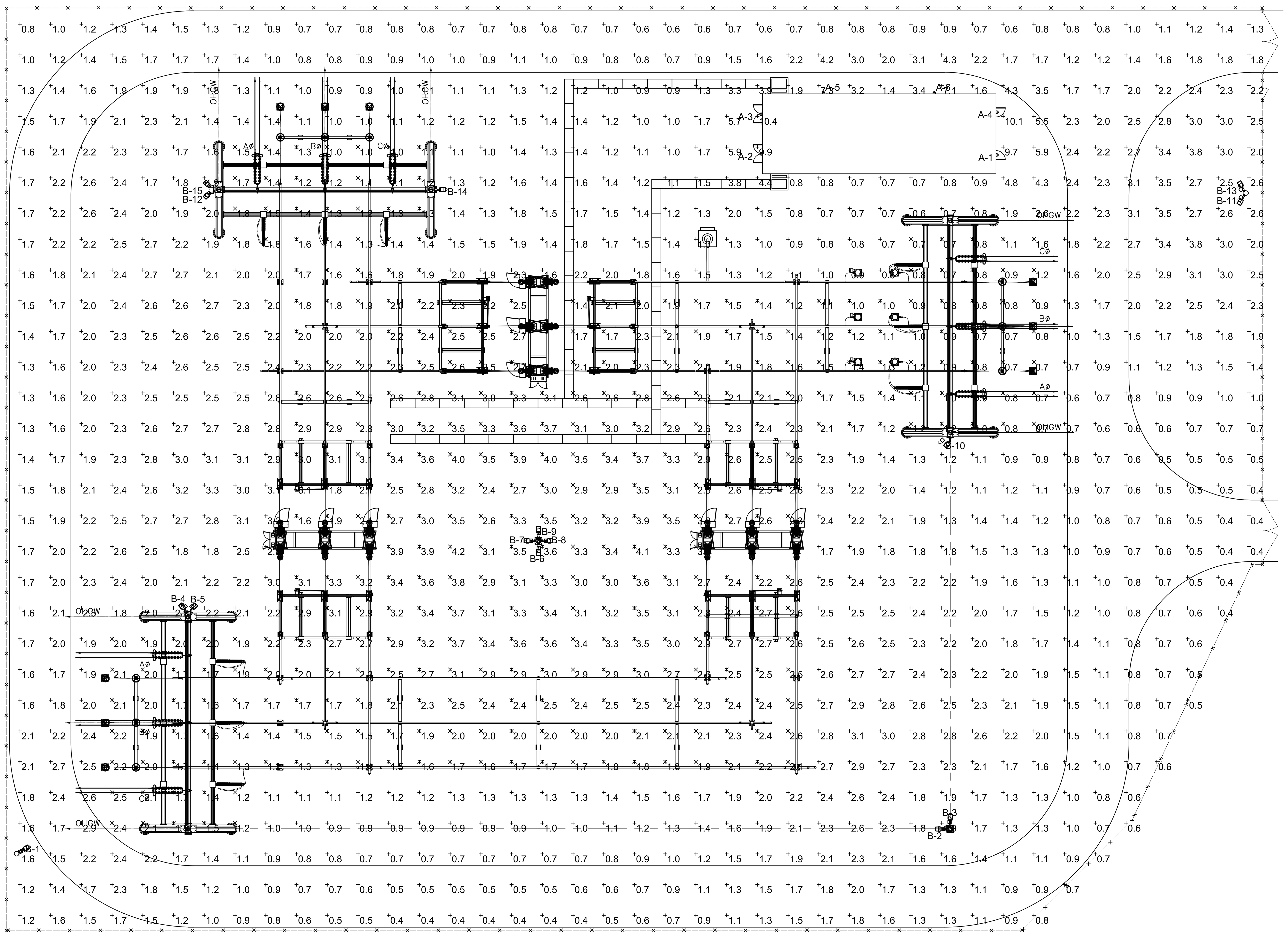
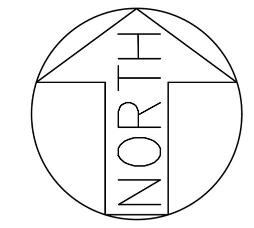
GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
GROUNDING PLAN

13666-076-E1-0245



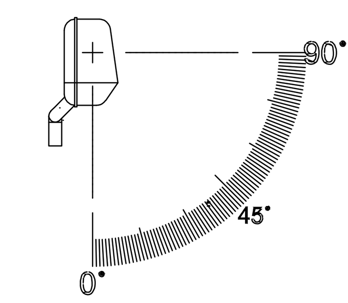


YARD LIGHTING SCHEDULE

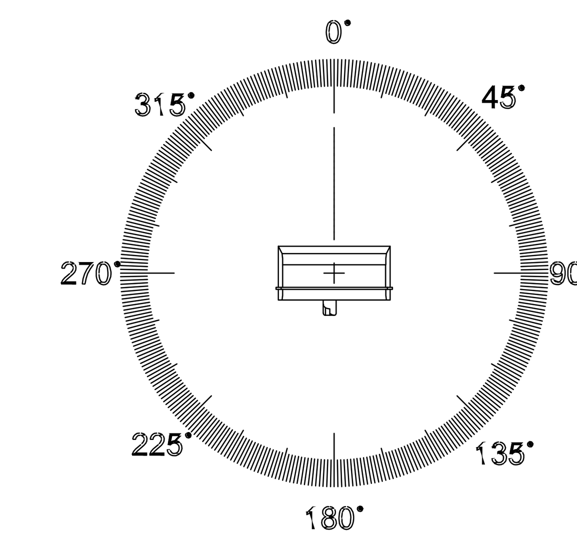
LIGHT NO.	TYPE	WATTAGE	MOUNTING HGT.	OREIENTATION	TILT
A-1	GE EVOLVE WALL MTD	25W	10Ft	90	0
A-2	GE EVOLVE WALL MTD	25W	10Ft	270	0
A-3	GE EVOLVE WALL MTD	25W	10Ft	270	0
A-4	GE EVOLVE WALL MTD	25W	10Ft	90	0
A-5	GE EVOLVE WALL MTD	25W	10Ft	0	0
A-6	GE EVOLVE WALL MTD	25W	10Ft	0	0
B-1	GE EVOLVE AREA LT	140W	30Ft	60	0
B-2	GE EVOLVE AREA LT	140W	40Ft	270	0
B-3	GE EVOLVE AREA LT	140W	40Ft	0	0
B-4	GE EVOLVE AREA LT	140W	40Ft	315	0
B-5	GE EVOLVE AREA LT	140W	40Ft	45	0
B-6	GE EVOLVE AREA LT	140W	40Ft	180	0
B-7	GE EVOLVE AREA LT	140W	40Ft	270	0
B-8	GE EVOLVE AREA LT	140W	40Ft	90	0
B-9	GE EVOLVE AREA LT	140W	40Ft	0	0
B-10	GE EVOLVE AREA LT	140W	40Ft	225	0
B-11	GE EVOLVE AREA LT	140W	30Ft	210	0
B-12	GE EVOLVE AREA LT	140W	30Ft	225	0
B-13	GE EVOLVE AREA LT	140W	40Ft	330	0
B-14	GE EVOLVE AREA LT	140W	40Ft	90	0
B-15	GE EVOLVE AREA LT	140W	40Ft	315	0

STATISTICS - OVERALL SITE

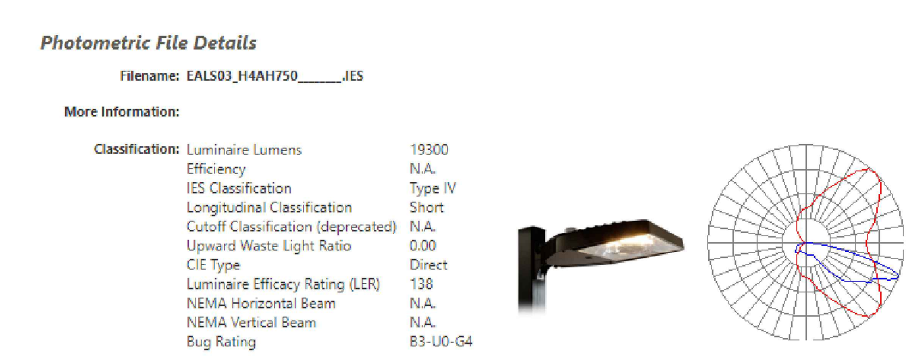
DESCRIPTION	SYMBOL	AVERAGE	MAXIMUM	MINIMUM	MAX/MIN
SITE	+	1.9 fc	10.4 fc	0.4 fc	26.0 : 1



YARD LIGHT TILT



YARD LIGHT ORIENTATION ANGLE



HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS.

REFERENCE DRAWING

13666-076-E1-0200 GENERAL ARRANGEMENT PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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SCALE: 1"=20'-0"

0 20' 40'

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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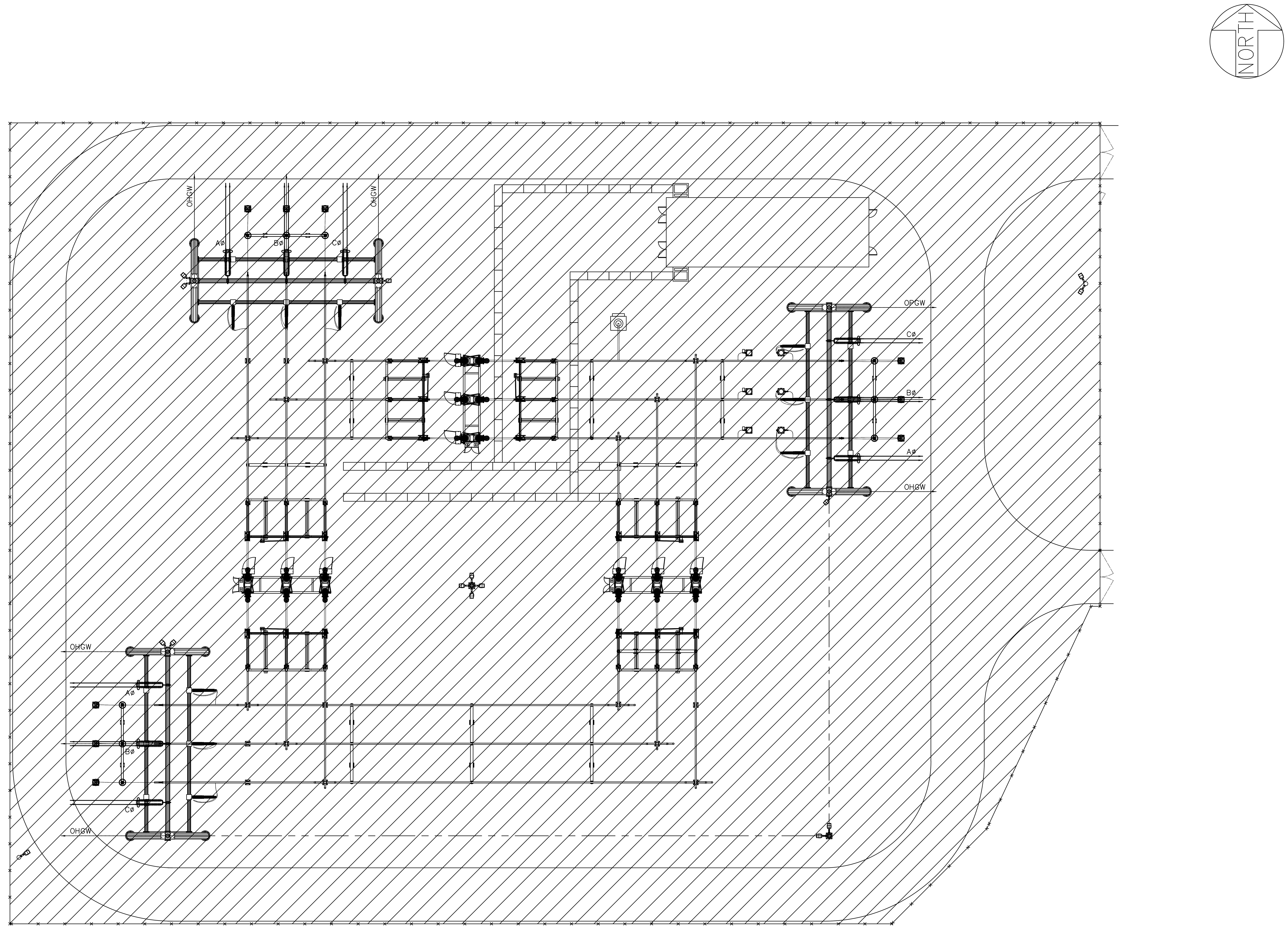
GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
LIGHTING PLAN

13666-076-E1-0265



HOLD NOTES

1. PENDING FINAL EQUIPMENT VENDOR DWGS.

LEGEND

—×—×—×—	SUBSTATION FENCE
— — — —	SHIELD WIRE, 3/8 EHS
(hatched area)	AREA PROTECTED USING ROLLING SPHERE METHOD AT 39'.

NOTES

1. SHIELD WIRE CONNECTED TO TRANSMISSION DEAD END ON BOTH SIDES.

REFERENCE DRAWING

13666-076-E1-0200	GENERAL ARRANGEMENT PLAN
13666-076-E1-0201	SECTION A-A
13666-076-E1-0202	SECTION B-B
13666-076-E1-0245	GROUNDING PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

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SCALE: 1"=20'-0"

0 20' 40'

PREP:	BJS	CHKD:	FPH
APPD:	BPR	DATE:	02/05/21

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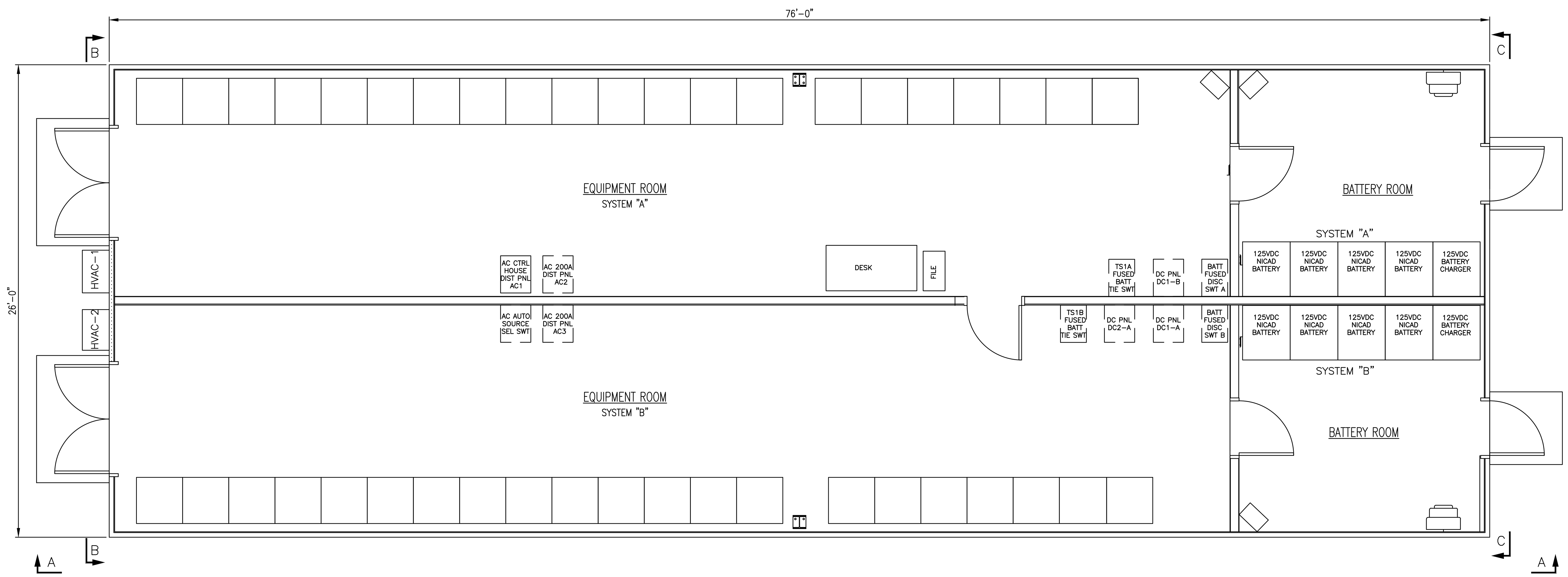
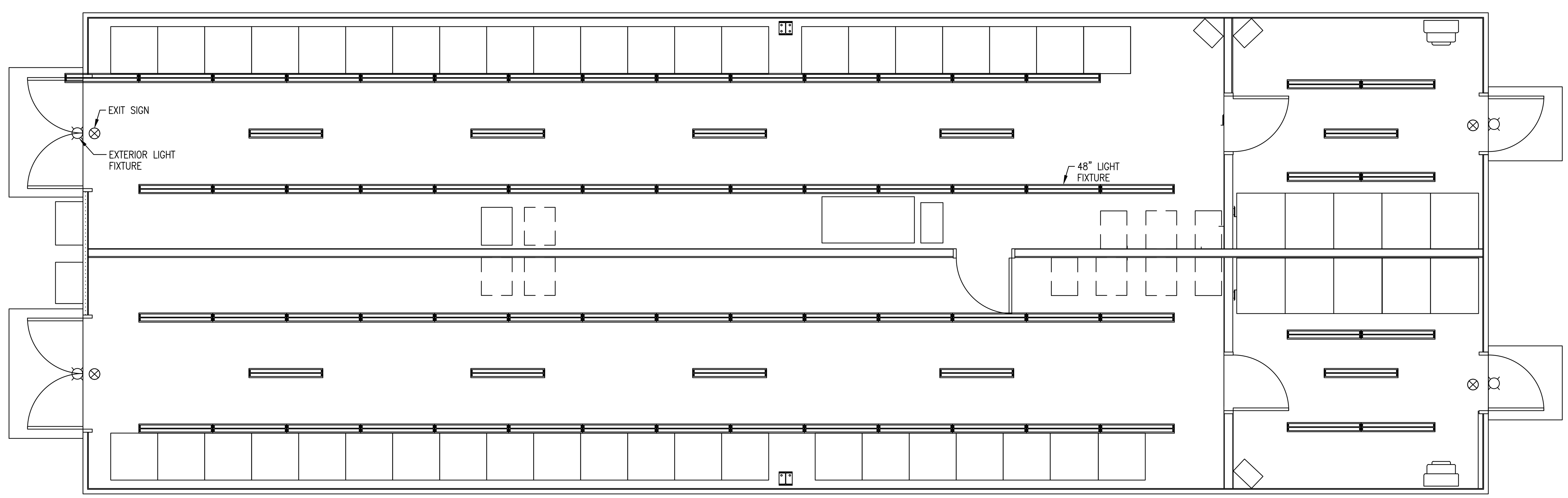
GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
LIGHTNING PROTECTION PLAN

13666-076-E1-0285



EQUIPMENT PLAN



LIGHTING PLAN

NOTES

1. EQUIPMENT SHOWN IS FOR GENERAL LAYOUT PURPOSES ONLY. REFER TO CONTRACT DRAWING OR EQUIPMENT LAYOUT PLAN.
2. SIDING COLOR SHALL BE ANSI 70 SKY GRAY OR LIGHT BEIGE.

REFERENCE DRAWING

13666-076-E1-0401 CONTROL HOUSE ELEVATIONS

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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SCALE: NONE

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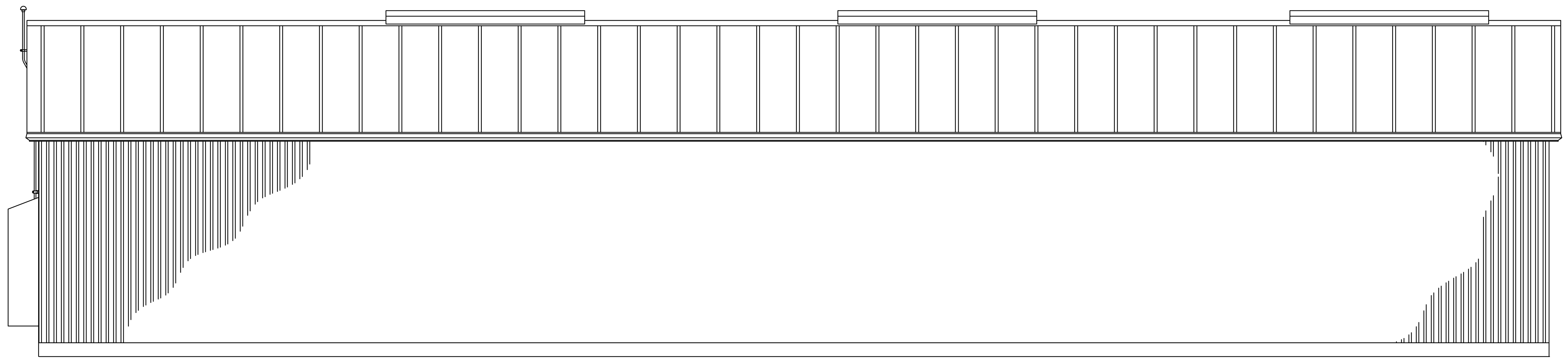
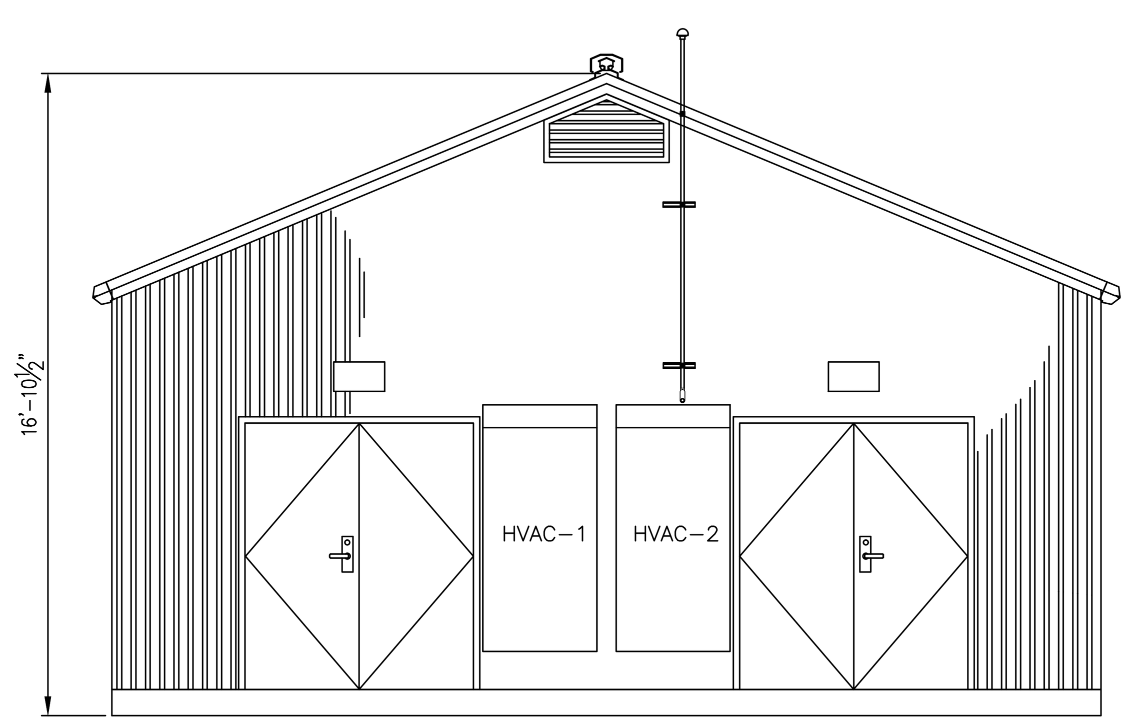
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
CONTROL HOUSE PLAN

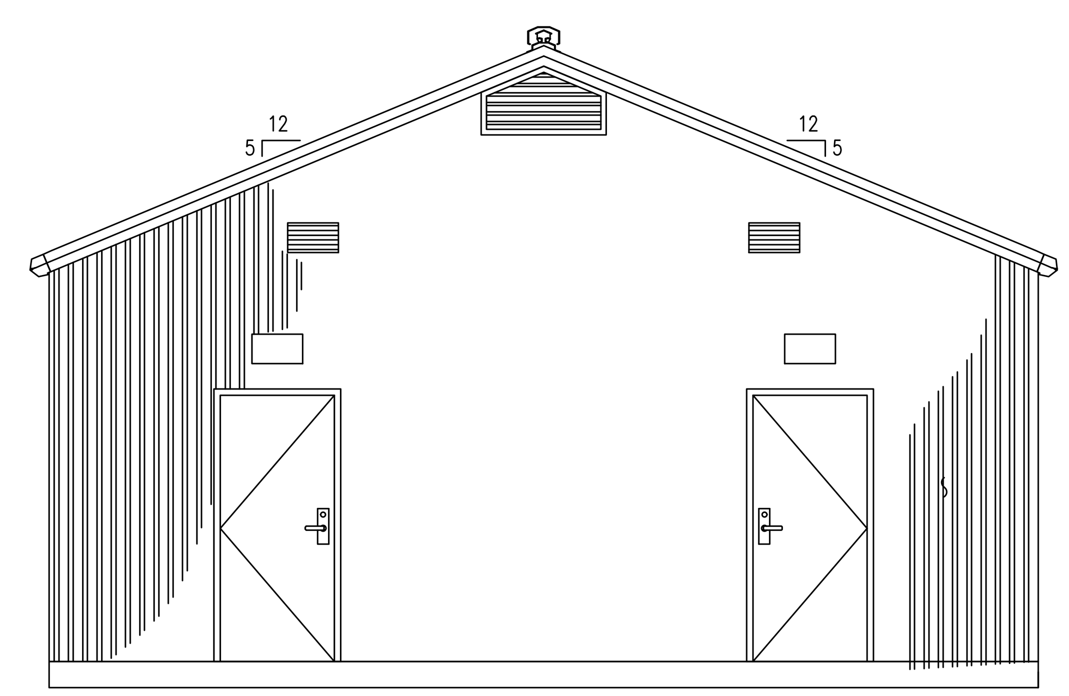
13666-076-E1-0400



ELEVATION A–A



ELEVATION B–B



ELEVATION C–C

NOTES

1. EQUIPMENT SHOWN IS FOR GENERAL LAYOUT PURPOSES ONLY. REFER TO CONTRACT DRAWING OR EQUIPMENT LAYOUT PLAN.
2. SIDING COLOR SHALL BE ANSI 70 SKY GRAY OR LIGHT BEIGE.

REFERENCE DRAWING

13666–076–E1–0400 CONTROL HOUSE PLAN

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	BJS	FPH	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	BJS	FPH	BPR	S&L

SCALE: NONE

PREP: BJS CHKD: FPH
APPD: BPR DATE: 02/05/21

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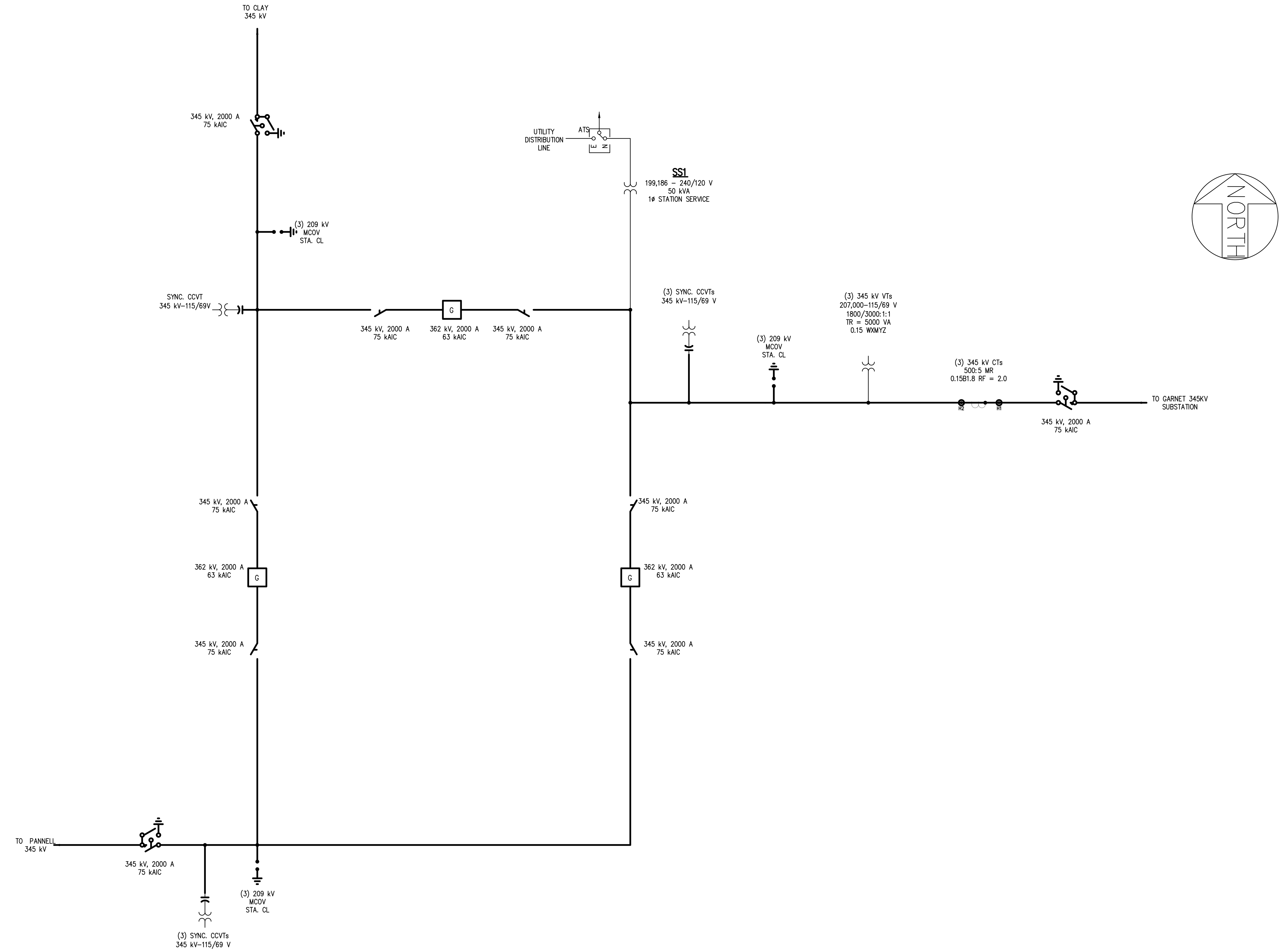
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
CONTROL HOUSE ELEVATIONS

13666-076-E1-0401



LEGEND:

- GROUP OPERATED DISCONNECT SWITCH
- GAS CIRCUIT BREAKER
- POTENTIAL TRANSFORMER
- SURGE ARRESTER
- CURRENT TRANSFORMER
- CAPACITIVE VOLTAGE TRANSFORMER
- MOTOR OPERATED DISCONNECT SWITCH WITH GROUND SWITCH

NOTES:

1. SURGE ARRESTER RATINGS ARE SHOWN FOR AN EFFECTIVELY GROUNDED SYSTEM. A REVIEW OF INSULATION COORDINATION SHOULD BE PERFORMED TO CONFIRM SURGE ARRESTER RATINGS.
2. STATION SERVICE TO BE SIZED ACCORDING TO STATION LOADS INCLUDING FUTURE EQUIPMENT.
3. THE 345KV BAYS SHOWN INCLUDE LINE PROTECTION AND METERING EQUIPMENT TO REPRESENT A LINE TERMINAL CONFIGURATION, WHICH INCLUDES SEPARATE REVENUE METERING EQUIPMENT.

HOLD NOTES:

1. PENDING FINAL EQUIPMENT VENDOR DWG

PRELIMINARY
NOT FOR CONSTRUCTION

REV	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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A	01/15/21	ISSUED FOR PERMIT REVIEW	AU	TJ	BPR	S&L

SCALE: NONE

PREP: AU CHKD: TJ
APPD: BPR DATE: 02/05/21

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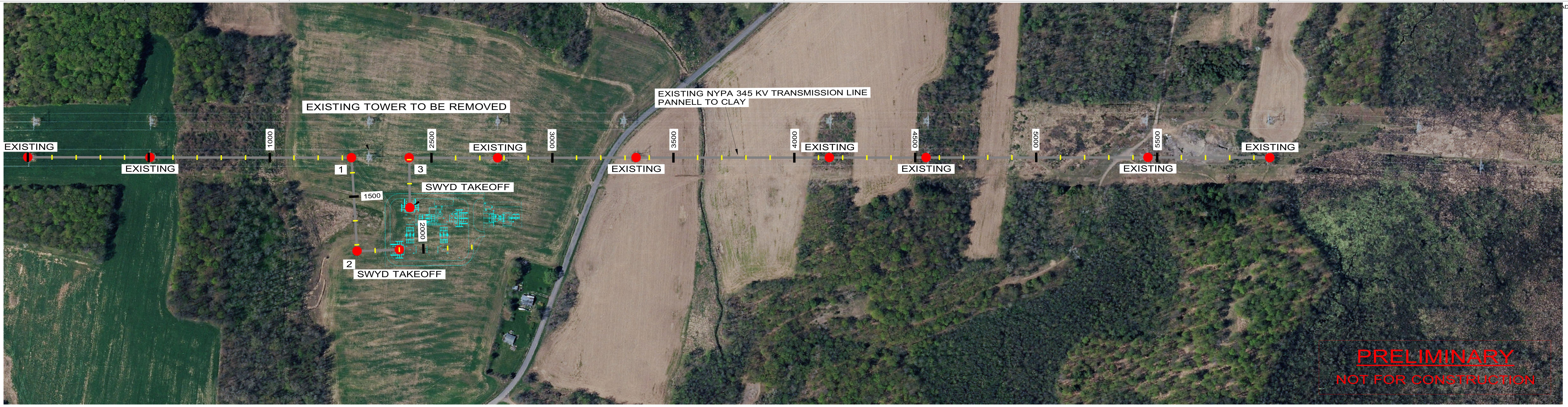
NEXTera ENERGY RESOURCES

GARNET ENERGY CENTER, LLC
345 kV SWITCHYARD
ONE LINE DIAGRAM

13666-076-E1-2000



LEGEND:

COLLECTION SUBSTATION / SWITCHYARD

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

N

CABLE DATA:

CONDUCTOR: HORZ. BUNDLE X2 795 KCMIL 26/7 ACSR "DRAKE"
DISPLAYED: 257°F "FINAL" CONDITION
DESIGN TENSION: SEE STRINGING CHARTS

SHIELD WIRE: AFL OPGW DNO-11757
DISPLAYED: 48°F "EVERYDAY" CONDITION
DESIGN TENSION: SEE STRINGING CHARTS

SHIELD WIRE: 7/16" 7 - STRAND EHS STEEL
DISPLAYED: 48°F "EVERYDAY" CONDITION
DESIGN TENSION: SEE STRINGING CHARTS

NOTES:

1. COORDINATES IN STRUCTURE LABEL ARE X (EASTING) AND Y (NORTHING) PER NEW YORK PLANE NAD83, CENTRAL ZONE 3102; U.S. SURVEY FEET.
2. GROUND CLEARANCE UNDER 257°F MAINTAINED IS 28.6 FT. PER NESC REQUIREMENT AT 345 KV INCLUDING 3.5 FT. BUFFER.
3. CONTRACTOR SHALL PERFORM WORK WITHIN LIMITS OF DISTURBANCE.
4. CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR`S/INSTALLER`S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.
5. TREE REMOVAL AND CLEARING SHALL BE PERFORMED PER PROJECT CONSTRUCTION SPECIFICATION.

REV.	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/21	PRELIMINARY - NOT FOR CONSTRUCTION	JYE	TRK	BPR	S&L
A	01/15/21	ISSUED FOR PERMIT REVIEW	JYE	TRK	BPR	S&L

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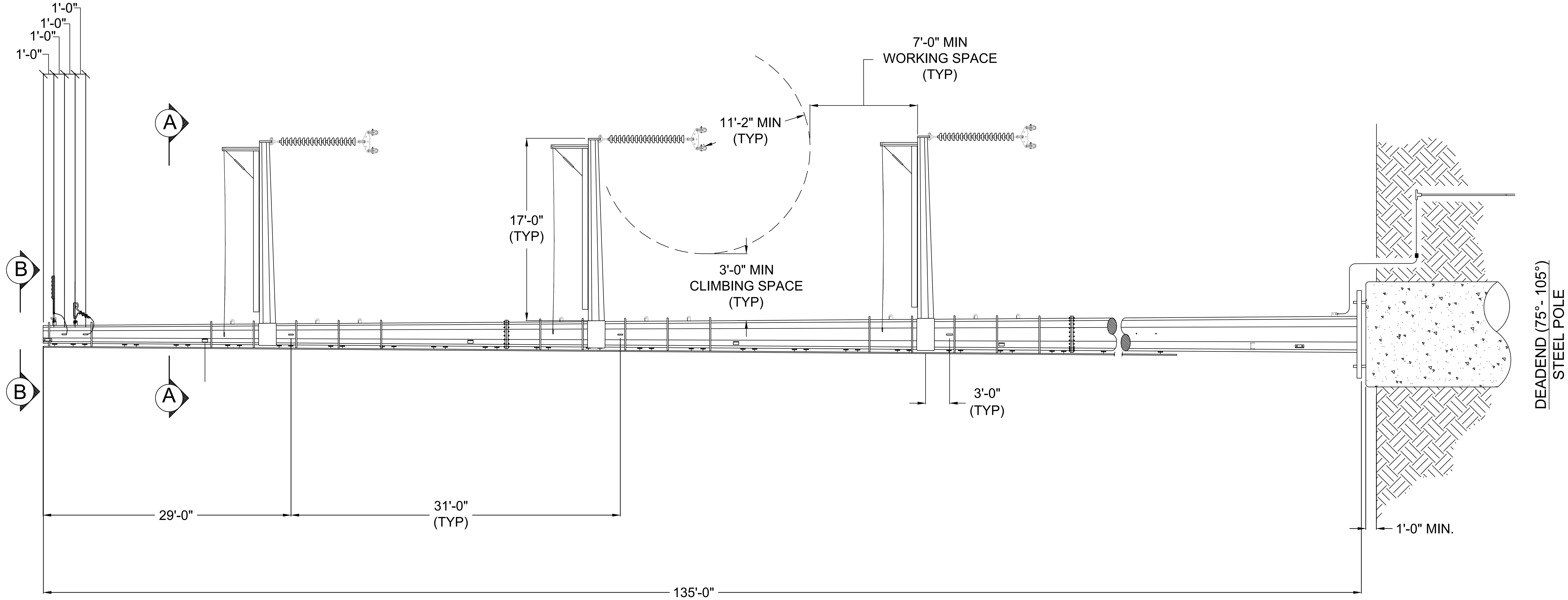
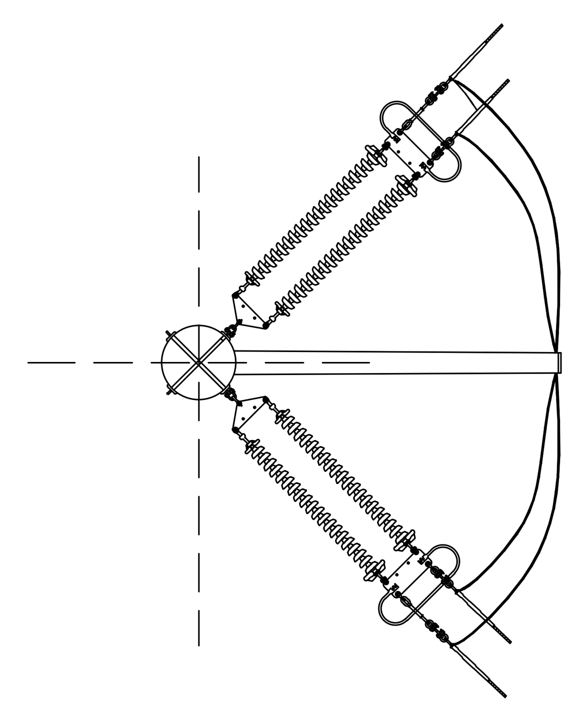
PREP: JYE CHKD: TRK
APPD: BPR DATE: 01/15/2021

NEXTera ENERGY RESOURCES

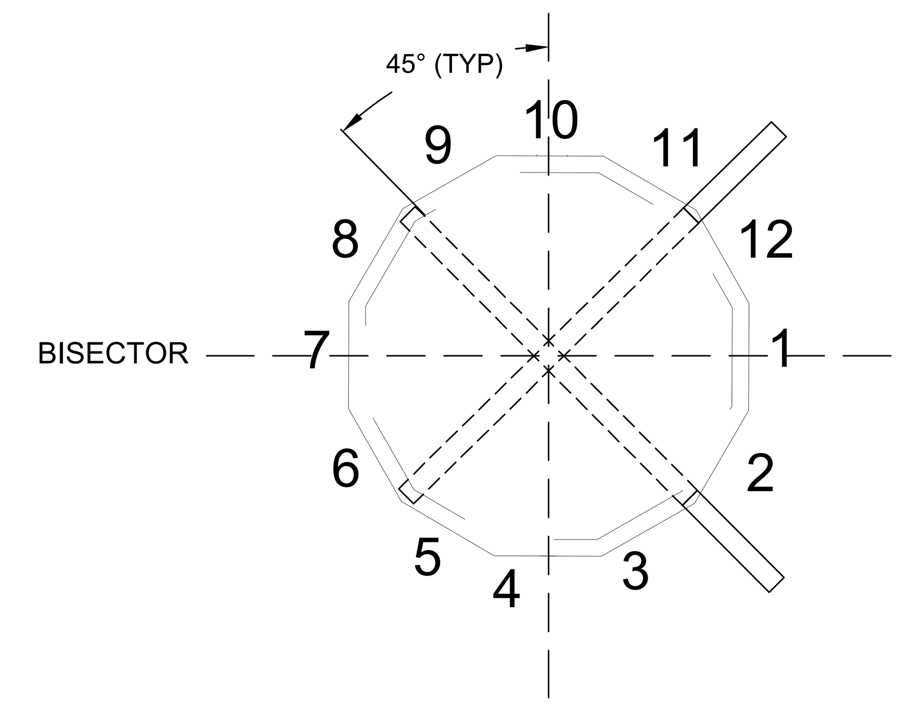
GARNET ENERGY CENTER, LLC
PLAN & PROFILES

13666-076-T1-0100





A□A
STRUCTURE AND CROSS ARMS
-



VANG ARRANGEMENT
-

PRELIMINARY
NOT FOR CONSTRUCTION

NOTES:

1. FRAMING IS CONCEPTUAL AND IS SUBJECT TO CHANGE DURING DETAIL DESIGN.
2. POLE SHALL BE DULLED GALVANIZED FINISH.
3. INSULATOR ASSEMBLIES SHALL BE DESIGNED WITH STANDARD GLASS INSULATOR BELLS PER NYPA STANDARDS.

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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SCALE: NONE

PREP: NJT/JYE CHKD: TRK
APPD: BPR DATE: 01/15/2021

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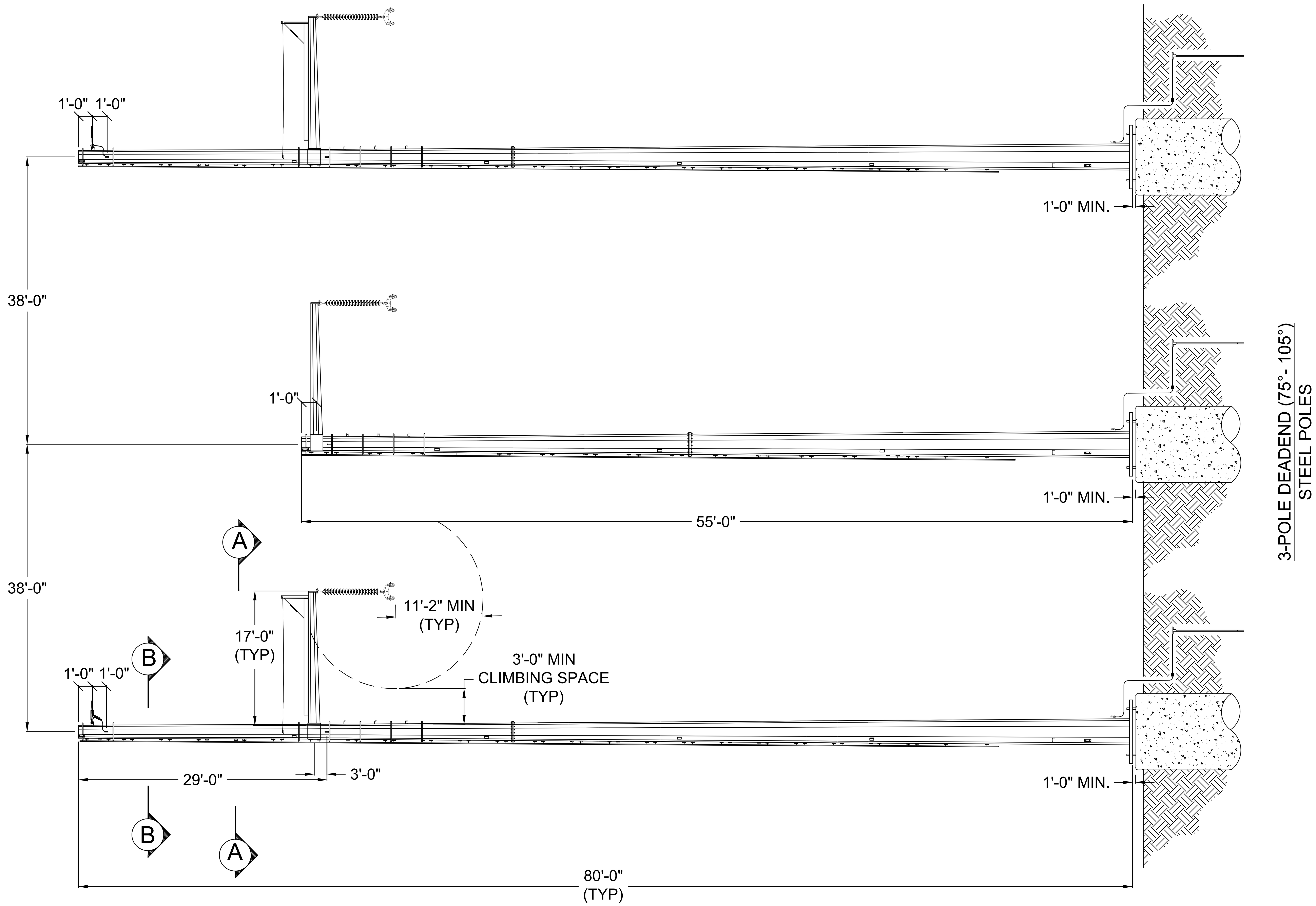
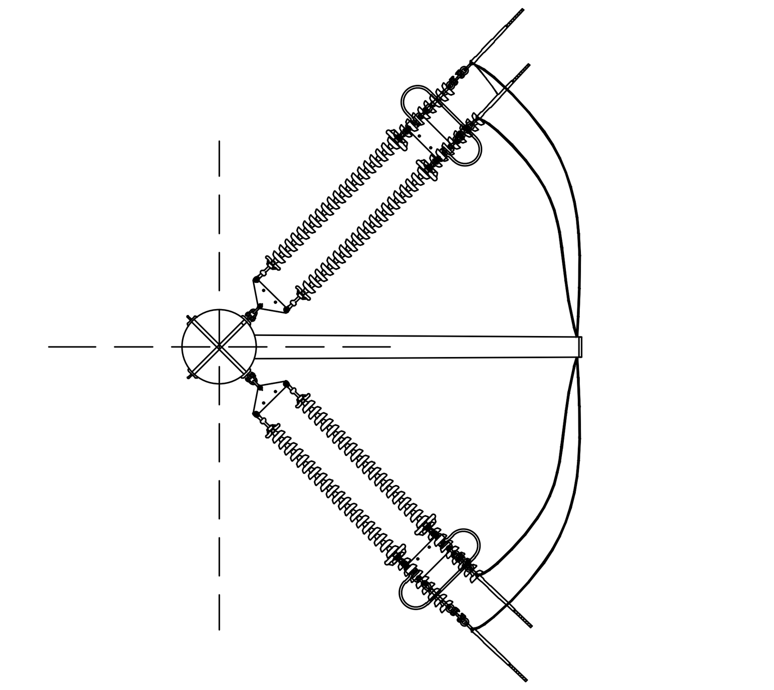
NEXTera ENERGY RESOURCES

NE□TERA ENERGY RESOURCES, LLC
GARNET ENERGY CENTER, LLC
345 KV DEADEND TAP STRUCTURE (75°- 105°)
NYPA FRAMING

13666-076-T1-0270





STRUCTURE AND CROSS ARMS

A A

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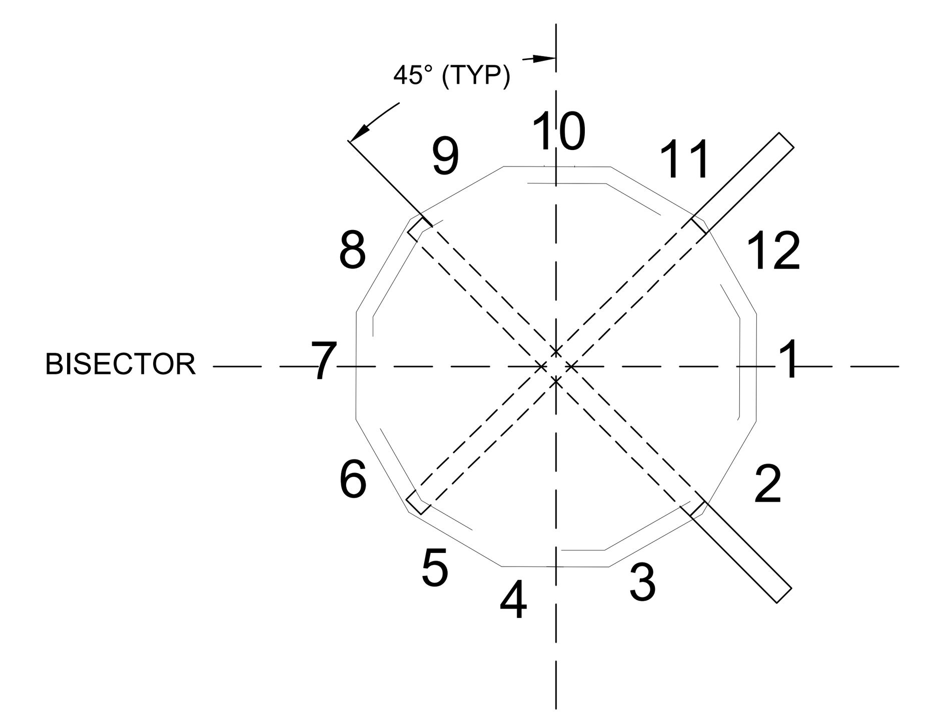

VANG ARRANGEMENT

-

NOTES:

1. FRAMING IS CONCEPTUAL AND IS SUBJECT TO CHANGE DURING DETAIL DESIGN.
2. POLE SHALL BE DULLED GALVANIZED FINISH.
3. INSULATOR ASSEMBLIES SHALL BE DESIGNED WITH STANDARD GLASS INSULATOR BELLS PER NYPA STANDARDS.

PRELIMINARY
NOT FOR CONSTRUCTION

NO	DATE	REVISIONS AND RECORD OF ISSUE	DRWN	REV'D	APPR	COMP
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B	02/05/2021	PRELIMINARY - NOT FOR CONSTRUCTION	NJT	TRK	BPR	S&L
A	01/15/2021	ISSUED FOR PERMIT REVIEW	NJT	TRK	BPR	S&L

SCALE: NONE

PREP: NJT/JYE CHKD: TRK
APPD: BPR DATE: 01/15/2021

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE; INCLUDING CONTRACTOR'S /INSTALLER'S PERSONNEL (OR THAT OF IT'S SUB-CONTRACTOR(S)) PERFORMING THE WORK.

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY ANY ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.

NEXTERA ENERGY RESOURCES, LLC
GARNET ENERGY CENTER, LLC
345 KV 3-POLE DEADEND TAP STRUCTURE (75°- 105°)
NYPA FRAMING

13666-076-T1-0275

Evolve™ LED Area Light

Scalable Wall Pack (EWS3)

current
powered by GE

Product Features

The GE Evolve LED Scalable Wall Pack is optimized for customers looking for an efficient and reliable LED solution to replace 75W - 250W Metal Halide wall mounted, site, area and general lighting applications.

Depending on the application, Evolve™ LED Scalable Wall Pack can yield up to a 75% reduction in system energy consumption compared with standard HID systems. Standard 0-10V dimming and an optional motion sensor with daylight harvesting can provide additional energy savings. The EWS3 offers a typical 105 LPW and is available in key lumen packages and reflective optics to optimize light output for most applications. This reliable system operates well in cold temperatures and offers more than 11 years of service life to reduce maintenance frequency and expense, based on a 50,000 hour rated life and 12 hours of operation per day. Containing no mercury or lead, this environmentally responsible product is RoHS compliant.

Applications

- Wall mounted, site, area and general lighting utilizing an advanced LED optical system providing uniformity, vertical light distribution, reduced offsite visibility, reduced on-site glare and effective security light levels.

Housing

- Die-cast aluminum housing.
- Sleek architectural design incorporating a heat sink directly into the unit ensuring maximum heat transfer and long LED life.
- Meets 1.5 G vibration standards per ANSI C136.31-2010.

LED & Optical Assembly

- Structured LED array for optimized light distribution.
- Evolve™ LED light engine utilizes reflective technology to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 3000K, 4000K & 5000K typical.
- LM-79 tests and reports are performed in accordance with IESNA standards.

Lumen Maintenance

- Projected L90>47,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:

SKU	LXX (10K)@HOURS		
	25,000 HR	50,000 HR	100,000 HR
EWS3	L94	L89	L80

Note: 1) Projected Lxx based on LM80 (10,000 hour testing). 2) DOE Lighting Facts Verification Testing Tolerances apply to initial Luminous flux and lumen maintenance measurements.

Lumen Ambient Temperature Factors:

AMBIENT TEMPERATURE (°C)	INITIAL FLUX FACTOR
10	1.02
20	1.01
25	1.00
30	0.99
40	0.98
50	0.97

Ratings

- UL listed, suitable for wet locations.
- cUL listed with option code "J" SKUs.
- IP 65 rated optical enclosure per ANSI C136.25-2013.
- Title 24 compliant with motion sensor option.
- Temperature rated at –40° to 50°C. (35°C for high wattage 90W SKU).
- Upward Light Output Ratio (ULOR) = 0
- Complies with the material restrictions of RoHS.

DLC Standard qualified models available. Please refer to http://www.designlights.org/QPL for complete information.

Mounting

- Flush wall mount to "J" box with inspection hole for IP 65.

Finish

- Corrosion resistant polyester powder paint, minimum 2.0 mil. thickness.
- Standard colors: Black and Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%*.
- Surge protection per ANSI C136.2-2015:
  - Exceeds "Basic" (6kV/3kA) (120 strike)
- EMI: FCC Title 47 CFR Part 15 Class A.
- Motion sensor with dimming capability available with "H" option code.
- Button PE Sensitivity: Fixture on-3.5Fc
  Fixture off-11.8 Fc

** System THD <26% for 347-480v supply with A7 power level.*

Accessories

- Escutcheon Plates - See page 6

Warranty

- 5 Year standard

Ordering Number Logic

Scalable Wall Pack (EWS3)

E W S 3

_ _ _ _   _   _ _   _ _   _ _   _   _ _ _ _   _ _ _

PROD. ID	VOLTAGE	POWER LEVEL	PHOTOMETRIC TYPE	LED COLOR TEMP	PE FUNCTION	COLOR	OPTIONS
E = Evolve **W** = Wallpack **S** = Scalable **3** = Product Generation	**0** = 120-277* **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347 **H** = 347-480* *Not available with Fusing. Must choose a descreet voltage with F Option.		**D1** = Asymmetric Forward **E1** = Asymmetric Medium	**30** = 3000K◇ **40** = 4000K **50** = 5000K ◇Select 3000K CCT for IDA Approved units	**1** = None **3** = Button PE* *Button PE not available with motion sensor option. Only available with descreet voltages. Not available with voltage options D, H or 5.	**BLCK** = Black **DKBZ** = Dark Bronze **GRAY** = Gray **WHTE** = White Contact manufacturer for other colors.	**F** = Fusing **H** = Motion Sensor* **J** = cUL/Canada **XXX** = Special Options *Option H only available in 120-277V. Reference page 5 (under H Motion Sensing Option) for more details.

Table 1: 120-277 Voltage Versions

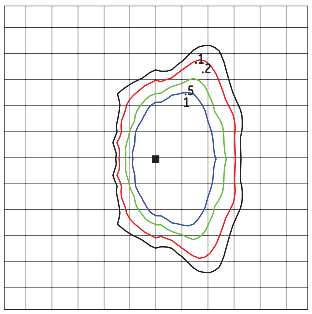
POWER LEVEL	PHOTOMETRIC TYPE	TYPICAL INITIAL LUMENS 3000K	TYPICAL INITIAL LUMENS 4000K & 5000K	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL SYSTEM WATTAGE 347-480V	B-U-G RATING 3000K	B-U-G RATING 4000K & 5000K	IES FILE NUMBERS 120-277V 3000K	IES FILE NUMBERS 120-277V 4000K	IES FILE NUMBERS 120-277V 5000K
A7	D1	2800	2900	25	28	1-0-1	1-0-1	EWS3_A7D130____-120-277V.IES	EWS3_A7D140____-120-277V.IES	EWS3_A7D150____-120-277V.IES
	E1	2800	2900	25	28	1-0-0	1-0-1	EWS3_A7E130____-120-277V.IES	EWS3_A7E140____-120-277V.IES	EWS3_A7E150____-120-277V.IES
B7	D1	3700	3800	32	35	1-0-1	1-0-1	EWS3_B7D130____-120-277V.IES	EWS3_B7D140____-120-277V.IES	EWS3_B7D150____-120-277V.IES
	E1	3700	3800	32	35	1-0-1	1-0-1	EWS3_B7E130____-120-277V.IES	EWS3_B7E140____-120-277V.IES	EWS3_B7E150____-120-277V.IES
C7	D1	4900	5000	41	45	1-0-1	1-0-1	EWS3_C7D130____-120-277V.IES	EWS3_C7D140____-120-277V.IES	EWS3_C7D150____-120-277V.IES
	E1	4900	5000	41	45	1-0-1	1-0-1	EWS3_C7E130____-120-277V.IES	EWS3_C7E140____-120-277V.IES	EWS3_C7E150____-120-277V.IES
D3	D1	6500	6700	67	67	2-0-1	2-0-1	EWS3_D3D130____.IES	EWS3_D3D140____.IES	EWS3_D3D150____.IES
	E1	6500	6700	67	67	2-0-1	2-0-1	EWS3_D3E130____.IES	EWS3_D3E140____.IES	EWS3_D3E150____.IES
E3	D1	8200	8600	90	90	2-0-2	2-0-2	EWS3_E3D130____.IES	EWS3_E3D140____.IES	EWS3_E3D150____.IES
	E1	8200	8600	90	90	2-0-1	2-0-1	EWS3_E3E130____.IES	EWS3_E3E140____.IES	EWS3_E3E150____.IES

Table 2: 347-480 Voltage Versions

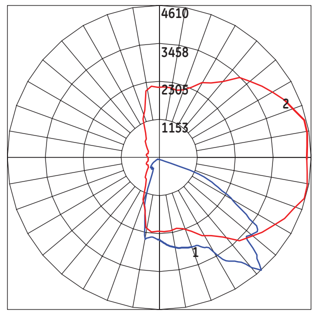
POWER LEVEL	PHOTOMETRIC TYPE	TYPICAL INITIAL LUMENS 3000K	TYPICAL INITIAL LUMENS 4000K & 5000K	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL SYSTEM WATTAGE 347-480V	B-U-G RATING 3000K	B-U-G RATING 4000K & 5000K	IES FILE NUMBERS 347-480V 3000K	IES FILE NUMBERS 347-480V 4000K	IES FILE NUMBERS 347-480V 5000K
A7	D1	2800	2900	25	28	1-0-1	1-0-1	EWS3_A7D130____-347-480V.IES	EWS3_A7D140____-347-480V.IES	EWS3_A7D150____-347-480V.IES
	E1	2800	2900	25	28	1-0-0	1-0-1	EWS3_A7E130____-347-480V.IES	EWS3_A7E140____-347-480V.IES	EWS3_A7E150____-347-480V.IES
B7	D1	3700	3800	32	35	1-0-1	1-0-1	EWS3_B7D130____-347-480V.IES	EWS3_B7D140____-347-480V.IES	EWS3_B7D150____-347-480V.IES
	E1	3700	3800	32	35	1-0-1	1-0-1	EWS3_B7E130____-347-480V.IES	EWS3_B7E140____-347-480V.IES	EWS3_B7E150____-347-480V.IES
C7	D1	4900	5000	41	45	1-0-1	1-0-1	EWS3_C7D130____-347-480V.IES	EWS3_C7D140____-347-480V.IES	EWS3_C7D150____-347-480V.IES
	E1	4900	5000	41	45	1-0-1	1-0-1	EWS3_C7E130____-347-480V.IES	EWS3_C7E140____-347-480V.IES	EWS3_C7E150____-347-480V.IES
D3	D1	6500	6700	67	67	2-0-1	2-0-1	EWS3_D3D130____.IES	EWS3_D3D140____.IES	EWS3_D3D150____.IES
	E1	6500	6700	67	67	2-0-1	2-0-1	EWS3_D3E130____.IES	EWS3_D3E140____.IES	EWS3_D3E150____.IES
E3	D1	8200	8600	90	90	2-0-2	2-0-2	EWS3_E3D130____.IES	EWS3_E3D140____.IES	EWS3_E3D150____.IES
	E1	8200	8600	90	90	2-0-1	2-0-1	EWS3_E3E130____.IES	EWS3_E3E140____.IES	EWS3_E3E150____.IES

Photometrics

EWS3 - Asymmetric Forward (D1)
8,600 Lumens, 5000K (EWS3_E3D150_____.IES)

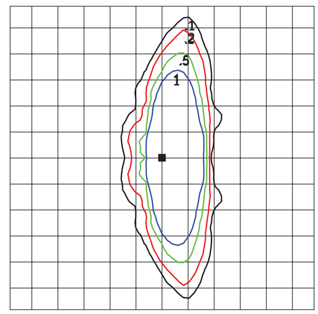


Grid Distance in Units of Mounting Height at 12'
Initial Footcandle Values at Grade

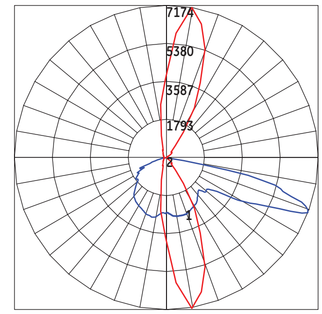


Polar Trace Vertical and Horizontal Plane through
Horizontal Angle of Maximum Candlepower

EWS3-Asymmetric Medium (E1)
8,600 Lumens, 5000K (EWS3_E3E150_____.IES)



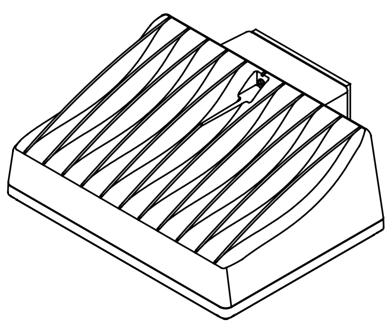
Grid Distance in Units of Mounting Height at 12'
Initial Footcandle Values at Grade



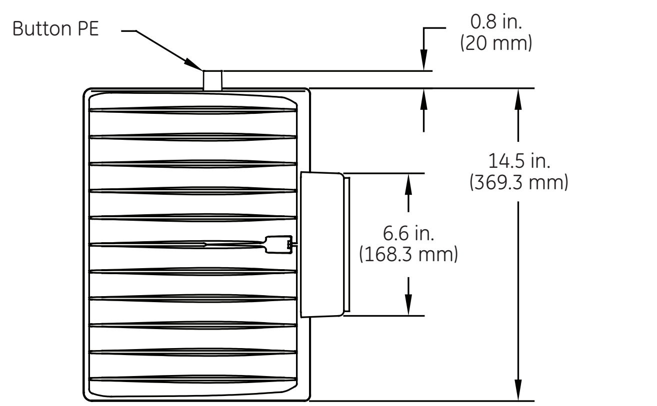
Polar Trace Vertical and Horizontal Plane through
Horizontal Angle of Maximum Candlepower

Product Dimensions

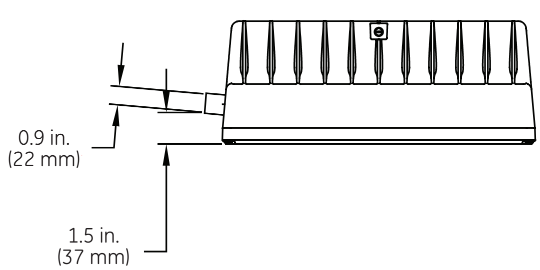
Top/Side View



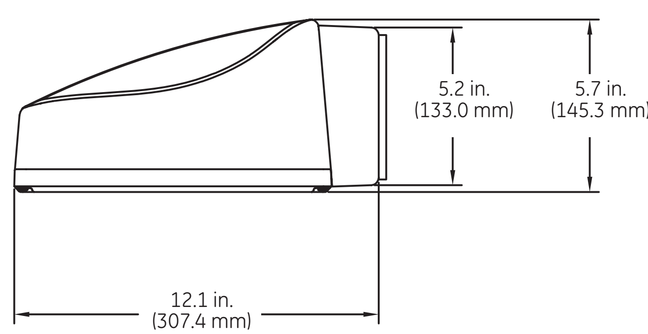
Top View



Front View

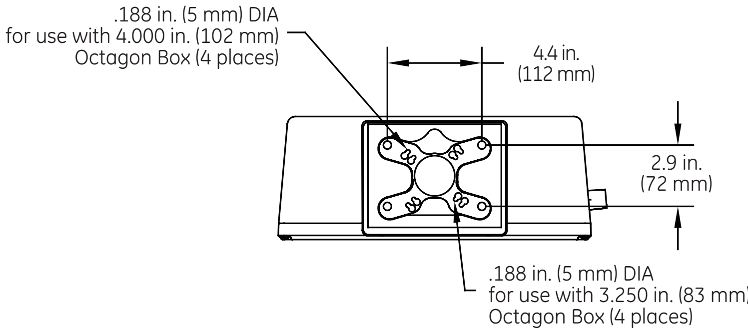


Side View



Product Dimensions

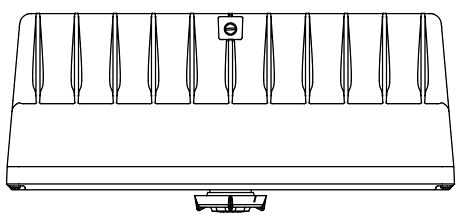
Back View



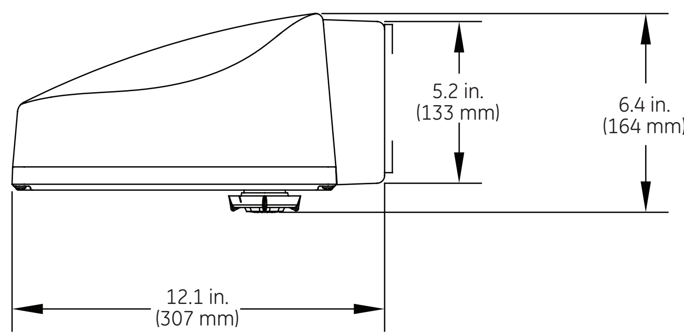
DATA

- Approximate Net Weight: 21 lbs (9.53 kgs)

Front View with Motion Sensor Option



Side View with Motion Sensor Option

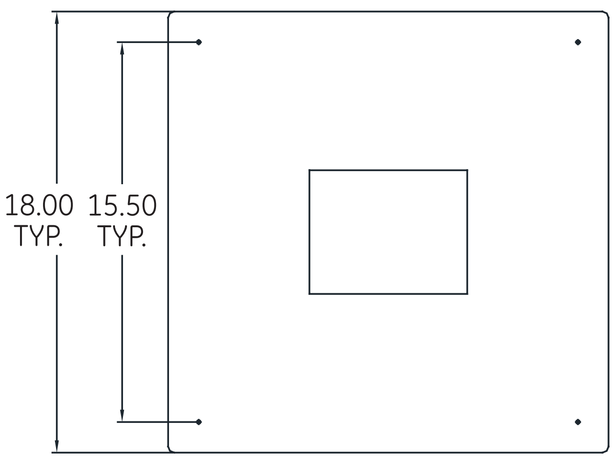


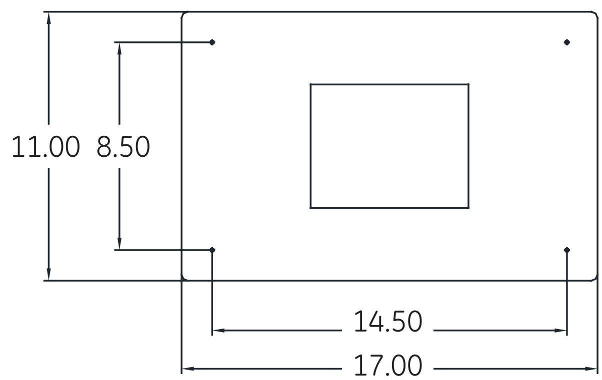
Accessories:

Escutcheon Plates

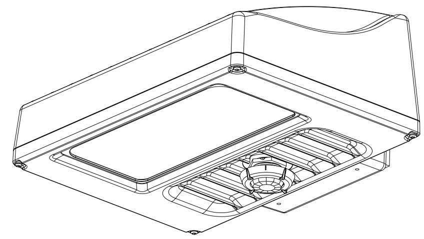
Cover unsightly debris and marks left behind from replacing HID product with escutcheon plates. Available in square and rectangular sizes, as well as in an assortment of colors to match the luminaire. Accessories are ordered and shipped separately from the luminaire.

E W N	E	_	_ _ _ _
PROD. ID	**PHOTOMETRIC SERIES**	**DETAIL**	**COLOR**
E = Evolve **W** = Wall Pack **N** = Housing Series	**E** = Escutcheon Plate	**1** = 17" x 11" **2** = 18" x 18"	**BLCK** = Black **DKBZ** = Dark Bronze **GRAY** = Gray **WHTE** = White RAL custom colors available. Contact Manufacturer.





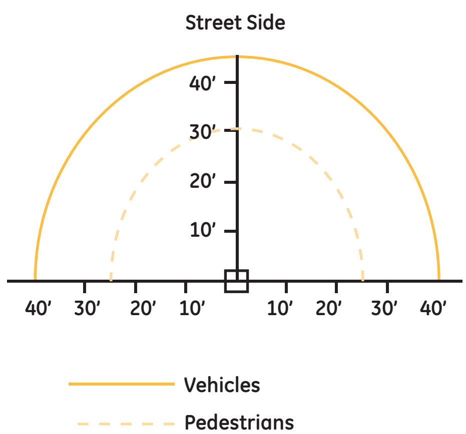
H-Motion Sensing Option:



- Intended for 8-25ft mounting heights.
- Provides a coverage area radius for walking motion of 25-30ft.
- Provides 180° of coverage (~180° is blocked by the wall).
- Factory preset to 50% dimming with no occupancy.
- May be reprogrammed using additional remote programmer.
  Remote Programmer part number: WS FSIR-100 PROGRAMMER (197634)
- Photoelectric control is integrated through the motion sensor, and is offered as standard.

Sensor Pattern:

**Sensing Pattern Wall Pack Fixture
Up to 25ft.**



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OLP3115 (Rev 05/04/17)

GE Evolve™

LED Area Lighting

EALS-03 & EALP-03

current
powered by GE

Product Features

The **EAL Area Light** luminaires offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize area light applications, as well as provide versatility in lighting design within the same form-factor. They are ideal for commercial property site-lighting applications such as retail and commercial exteriors. The EALS (standard) area light has a lumen range from 7,500-30,000 lumens. The EALP (premium) offers a similar lumen range of 25,000 to 70,000 lumens but with higher LPW and better lumen maintenance.

Both the **EALS-03** and **EALP-03** feature our innovative, highly flexible Universal Mounting Arm option, which provides installers the ability to mount the EAL fixtures on both round and square poles of multiple sizes. In addition, it features both in-line and offset bolt patterns which enable it to easily be affixed to the majority of the bolt patterns one would encounter in the field.

Applications

- Site and area light applications such as parking lots, retail exteriors, commercial exteriors, roadways and other general lighting applications

Housing

- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, and long LED life.
- Die cast aluminum housing
- 3G vibration per ANSI C136.31-2010

LED & Optical Assembly

- LM-79 tests and reports in accordance with IESNA standards
- Upward Light Output Ratio (ULOR) = 0 (horizontal orientation)
- 70CRI at 3000K, 4000K and 5000K
- Distributions: II, III, IV, V

Lumen Maintenance

- Projected Lxx per IES TM-21 at 25 °C for reference:

EALS03 Optical code	Lxx (10k) @ Hours 25,000 hr	50,000 hr	100,000 hr
C2, C3, C4, C5, D2, D3, D4, D5	L95	L92	L86
F5, H2, H3, H4, H5	L95	L92	L86
F2, F3, F4, J2, J3, J4, J5	L94	L89	L81
K2, K3, K4, K5	L94	L89	L81

EALP03 Optical code	Lxx (10k) @ Hours 25,000 hr	50,000 hr	100,000 hr
J5, K2, K3, K4, K5	L97	L96	L94
L2, L3, L4, L5, M2, M3, M4, M5	L97	L96	L94
J2, J3, J4, N2, N3, N4, N5	L94	L91	L84
P2, P3, P4, P5, Q2, Q3, Q4, Q5	L94	L91	L84

Note: 1) Projected Lxx based on LM80 (10,000 hour testing). 2) DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements

Lumen Ambient Temperature Factors:

Ambient Temp (°C)	Initial Flux Factor
10	1.02
20	1.01
25	1.00
30	0.99
40	0.98

DLC Standard qualified models available. Please refer to http://www.designlights.org/QPL for complete information.

DLC Premium qualified models available. Please refer to http://www.designlights.org/QPL for complete information.

Ratings

- cUL Listed
- UL 1598 Listed Suitable for Wet Locations
- IP65 optical enclosure per ANSI C136.25-2013
- Operating Temperature –40°C to +40°C (maximum of +35°C for 570W)
- California Title 24 compliant (w/ "H" motion sensor option)

Mounting

Option C1: Integral Slipfitter for 1.25"-2" Pipe (1.66 in. OD-2.378 in. OD) supplied with leads. +/- 5 deg adjustment for leveling.

Option D1: Universal Mounting Arm, fitted for round or square pole mounting supplied with 16/3 3ft cable.

Option K1: Knuckle Slipfitter for 1.9 in.-2.3 in. OD Tenon with leads. Restricted aiming angle 0° to +45°.

Option S1: Knuckle Slipfitter for 2.3 in.- 3.0 in OD Tenon with leads. Restricted aiming angle 0° to +45°.

Option V1: Knuckle Wall Mount with leads. Restricted aiming angle 0° to +45°.

Finish

- Corrosion resistant polyester powder paint, minimum thickness 2.0 mil.
- Standard colors: Black, Dark Bronze, Aluminum, Gray & White.
- RAL & custom colors available.
- Optional coastal finish available.

Electrical

- 120-277 VAC and 347-480 VAC available.
- System power factor is >90% and THD <20%.
- ANSI C136.41 7-pin dimming receptacle, standard.
- ANSI photo electric sensors (PE) available for all voltages.
- LightGrid™ compatible.
- Dimming/Occupancy:
  - Standard: 0-10V; Optional: DALI (120-277V, excluding 400 watts and above)
  - Externally wired 0-10V dimming (optional)
  - DALI digital dimming. Contact manufacturer for availability.
  - Standalone dimming occupancy sensor with ambient light sensor, option code "H".
  - Daintree occupancy sensor available.
- Surge Protection tested per ANSI C136.2-2015.
  - 6kV/3kA "Basic" surge protection, standard.
  - 10kV/5kA "Enhanced" surge protection optional.

Warranty

- 5 Year Standard

Accessories

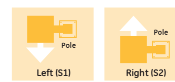
- Photoelectric Controls (see page 10)
- Light Shields (see Data Sheet OLP 3120 Shielding for EAL Area Light Fixtures)

Ordering Number Logic

Evolve™ LED Area Light (EALS-03)

EALS 03 _ __ __ 7 __ _ _ __ ____ ___

PROD. ID	GENERATION	VOLTAGE	OPTICAL DISTRIBUTION CODE	CRI	CCT	DIMMING	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E = Evolve **AL** = Area Light **S** = Standard	**03** = 3rd Generation	**0** = 120-277* **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347 **H** = 347-480* *Not available with Fusing. Must choose a descreet voltage with F Option	**SM** = Symmetric Medium **SW** = Symmetric Wide **SH** = Symmetric High Angle **AF** = Asymmetric Forward **AH** = Asymmetric High Angle **AW** = Asymmetric Wide **AN** = Asymmetric Narrow/Auto	**7** = 70 (min)	**30** = 3000K◇ **40** = 4000K **50** = 5000K ◇Select 3000K CCT for IDA Approved units	**N** = Dimming thru PE receptacle **D** = External Dimming 18/2-3ft cable **X** = Non-dimmable* All constructions supplied with ANSI C136.41 7-pin Receptacle *Required for Cx Optical Codes. Not available for other optical codes. **Note:** Standard dimming 0-10V	**A** = ANSI 7-pin PE receptacle (no control) **D** = ANSI 7-pin PE receptacle with shorting cap provided **Note:** See accessories section on page 10 for PE Control ordering	**C1** = Integral Slipfitter for 1.25" - 2" Pipe (1.66in. OD - 2.378in. OD)* **D1** = Universal Mounting Arm, fitted for round or square pole mounting** **K1** = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon*++ **S1** = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon*++ **V1** = Knuckle Wall Mount*++ * Supplied with 3FT leads ** Supplied with 3FT #14/3 power cable ++ Restricted Aiming Angle 0° to +45°	**GRAY** = Gray **BLCK** = Black **DKBZ** = Dark Bronze **WHTE** = White	**F** = Fusing **H** = Motion Sensor (Sensor Switch) **H2** = Motion Sensor (Daintree) **J** = cUL/Canada **L** = Tool-Less Entry **R** = Enhanced Surge Protection (10kV/5kA) **S1** = Rotated Left † **S2** = Rotated Right † **T** = Elevated Surge Protection (20kV/10kA) **U** = DALI dimming ^+ **V** = 3-Position Terminal Block **Y** = Coastal Finish **XXX** = Special Options * Contact Manufacturer for availability + Compatible with LightGrid 2.0 nodes ^ Not compatible at 347-480V or with motion sensor control † For aimed left or right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric Distributions. **Note:** H2 option not available at 370V-480V

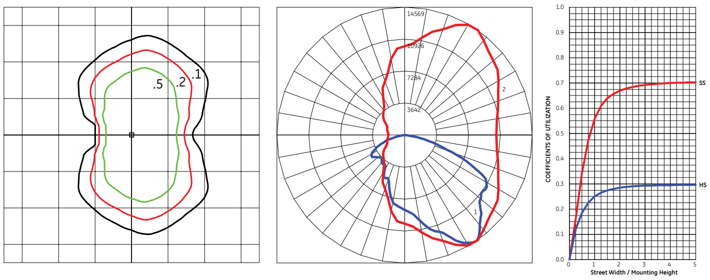


TYPE	OPTICAL CODE	DISTRIBUTION	TYPICAL INITIAL LUMENS 3000K	TYPICAL INITIAL LUMENS 4000K & 5000K	TYPICAL SYSTEM WATTAGE 120-277V & 347-480V	BUG RATING 3000K B-U-G	BUG RATING 4000 & 5000K B-U-G	IES FILE NUMBER 3000K	IES FILE NUMBER 4000K	IES FILE NUMBER 5000K
Type V	C5	Symmetric Medium (SM)	7300	7500	46	B3-U0-G1	B3-U0-G1	EALS03_C5SM730_.IES	EALS03_C5SM740_.IES	EALS03_C5SM750_.IES
	D5	Symmetric Medium (SM)	9800	10000	64	B3-U0-G1	B3-U0-G1	EALS03_D5SM730_.IES	EALS03_D5SM740_.IES	EALS03_D5SM750_.IES
	F5	Symmetric Medium (SM)	14700	15000	101	B4-U0-G2	B4-U0-G2	EALS03_F5SM730_.IES	EALS03_F5SM740_.IES	EALS03_F5SM750_.IES
	H5	Symmetric Medium (SM)	19600	20000	140	B4-U0-G2	B4-U0-G2	EALS03_H5SM730_.IES	EALS03_H5SM740_.IES	EALS03_H5SM750_.IES
	J5	Symmetric Medium (SM)	24500	25000	186	B4-U0-G2	B4-U0-G2	EALS03_J5SM730_.IES	EALS03_J5SM740_.IES	EALS03_J5SM750_.IES
	K5	Symmetric Medium (SM)	29400	30000	239	B5-U0-G3	B5-U0-G3	EALS03_K5SM730_.IES	EALS03_K5SM740_.IES	EALS03_K5SM750_.IES
	C5	Symmetric Wide (SW)	7300	7500	46	B2-U0-G1	B2-U0-G1	EALS03_C5SW730_.IES	EALS03_C5SW740_.IES	EALS03_C5SW750_.IES
	D5	Symmetric Wide (SW)	9800	10100	64	B3-U0-G1	B3-U0-G1	EALS03_D5SW730_.IES	EALS03_D5SW740_.IES	EALS03_D5SW750_.IES
	F5	Symmetric Wide (SW)	14700	15100	101	B3-U0-G2	B3-U0-G2	EALS03_F5SW730_.IES	EALS03_F5SW740_.IES	EALS03_F5SW750_.IES
	H5	Symmetric Wide (SW)	19700	20200	140	B4-U0-G2	B4-U0-G2	EALS03_H5SW730_.IES	EALS03_H5SW740_.IES	EALS03_H5SW750_.IES
	J5	Symmetric Wide (SW)	24600	25200	186	B4-U0-G2	B4-U0-G2	EALS03_J5SW730_.IES	EALS03_J5SW740_.IES	EALS03_J5SW750_.IES
	K5	Symmetric Wide (SW)	29600	30300	239	B5-U0-G2	B5-U0-G2	EALS03_K5SW730_.IES	EALS03_K5SW740_.IES	EALS03_K5SW750_.IES
	C5	Symmetric High Angle (SH)	7000	7200	46	B3-U0-G1	B3-U0-G1	EALS03_C5SH730_.IES	EALS03_C5SH740_.IES	EALS03_C5SH750_.IES
	D5	Symmetric High Angle (SH)	9400	9600	64	B3-U0-G2	B3-U0-G2	EALS03_D5SH730_.IES	EALS03_D5SH740_.IES	EALS03_D5SH750_.IES
	F5	Symmetric High Angle (SH)	14200	14500	101	B4-U0-G2	B4-U0-G2	EALS03_F5SH730_.IES	EALS03_F5SH740_.IES	EALS03_F5SH750_.IES
	H5	Symmetric High Angle (SH)	18900	19300	140	B4-U0-G2	B4-U0-G2	EALS03_H5SH730_.IES	EALS03_H5SH740_.IES	EALS03_H5SH750_.IES
	J5	Symmetric High Angle (SH)	23600	24100	186	B5-U0-G3	B5-U0-G3	EALS03_J5SH730_.IES	EALS03_J5SH740_.IES	EALS03_J5SH750_.IES
	K5	Symmetric High Angle (SH)	28400	29000	239	B5-U0-G3	B5-U0-G3	EALS03_K5SH730_.IES	EALS03_K5SH740_.IES	EALS03_K5SH750_.IES
Type IV	C4	Asymmetric Forward (AF)	7300	7500	50	B1-U0-G2	B1-U0-G2	EALS03_C4AF730_.IES	EALS03_C4AF740_.IES	EALS03_C4AF750_.IES
	D4	Asymmetric Forward (AF)	9800	10000	70	B2-U0-G2	B2-U0-G2	EALS03_D4AF730_.IES	EALS03_D4AF740_.IES	EALS03_D4AF750_.IES
	F4	Asymmetric Forward (AF)	14700	15000	116	B2-U0-G2	B2-U0-G2	EALS03_F4AF730_.IES	EALS03_F4AF740_.IES	EALS03_F4AF750_.IES
	H4	Asymmetric Forward (AF)	19600	20000	140	B3-U0-G3	B3-U0-G3	EALS03_H4AF730_.IES	EALS03_H4AF740_.IES	EALS03_H4AF750_.IES
	J4	Asymmetric Forward (AF)	24500	25000	186	B3-U0-G3	B3-U0-G3	EALS03_J4AF730_.IES	EALS03_J4AF740_.IES	EALS03_J4AF750_.IES
	K4	Asymmetric Forward (AF)	29400	30000	239	B3-U0-G4	B3-U0-G4	EALS03_K4AF730_.IES	EALS03_K4AF740_.IES	EALS03_K4AF750_.IES
	C4	Asymmetric High Angle (AH)	7000	7200	50	B2-U0-G2	B2-U0-G2	EALS03_C4AH730_.IES	EALS03_C4AH740_.IES	EALS03_C4AH750_.IES
	D4	Asymmetric High Angle (AH)	9400	9600	70	B2-U0-G2	B2-U0-G2	EALS03_D4AH730_.IES	EALS03_D4AH740_.IES	EALS03_D4AH750_.IES
	F4	Asymmetric High Angle (AH)	14200	14500	116	B3-U0-G3	B3-U0-G3	EALS03_F4AH730_.IES	EALS03_F4AH740_.IES	EALS03_F4AH750_.IES
	H4	Asymmetric High Angle (AH)	18900	19300	140	B3-U0-G3	B3-U0-G4	EALS03_H4AH730_.IES	EALS03_H4AH740_.IES	EALS03_H4AH750_.IES
	J4	Asymmetric High Angle (AH)	23600	24100	186	B3-U0-G4	B3-U0-G4	EALS03_J4AH730_.IES	EALS03_J4AH740_.IES	EALS03_J4AH750_.IES
	K4	Asymmetric High Angle (AH)	28400	29000	239	B3-U0-G4	B3-U0-G4	EALS03_K4AH730_.IES	EALS03_K4AH740_.IES	EALS03_K4AH750_.IES
Type III	C3	Asymmetric Wide (AW)	7300	7500	50	B2-U0-G1	B2-U0-G1	EALS03_C3AW730_.IES	EALS03_C3AW740_.IES	EALS03_C3AW750_.IES
	D3	Asymmetric Wide (AW)	9800	10100	70	B2-U0-G2	B2-U0-G2	EALS03_D3AW730_.IES	EALS03_D3AW740_.IES	EALS03_D3AW750_.IES
	F3	Asymmetric Wide (AW)	14700	15100	116	B2-U0-G2	B2-U0-G2	EALS03_F3AW730_.IES	EALS03_F3AW740_.IES	EALS03_F3AW750_.IES
	H3	Asymmetric Wide (AW)	19700	20200	140	B3-U0-G2	B3-U0-G3	EALS03_H3AW730_.IES	EALS03_H3AW740_.IES	EALS03_H3AW750_.IES
	J3	Asymmetric Wide (AW)	24600	25200	186	B3-U0-G3	B3-U0-G3	EALS03_J3AW730_.IES	EALS03_J3AW740_.IES	EALS03_J3AW750_.IES
	K3	Asymmetric Wide (AW)	29600	30300	239	B3-U0-G3	B3-U0-G3	EALS03_K3AW730_.IES	EALS03_K3AW740_.IES	EALS03_K3AW750_.IES
Type II	C2	Asymmetric Narrow/Auto (AN)	7300	7500	50	B2-U0-G2	B2-U0-G2	EALS03_C2AN730_.IES	EALS03_C2AN740_.IES	EALS03_C2AN750_.IES
	D2	Asymmetric Narrow/Auto (AN)	9800	10100	70	B2-U0-G2	B2-U0-G2	EALS03_D2AN730_.IES	EALS03_D2AN740_.IES	EALS03_D2AN750_.IES
	F2	Asymmetric Narrow/Auto (AN)	14700	15100	116	B3-U0-G3	B3-U0-G3	EALS03_F2AN730_.IES	EALS03_F2AN740_.IES	EALS03_F2AN750_.IES
	H2	Asymmetric Narrow/Auto (AN)	19700	20200	140	B3-U0-G3	B3-U0-G3	EALS03_H2AN730_.IES	EALS03_H2AN740_.IES	EALS03_H2AN750_.IES
	J2	Asymmetric Narrow/Auto (AN)	24600	25200	186	B3-U0-G3	B3-U0-G3	EALS03_J2AN730_.IES	EALS03_J2AN740_.IES	EALS03_J2AN750_.IES
	K2	Asymmetric Narrow/Auto (AN)	29600	30300	239	B3-U0-G3	B3-U0-G3	EALS03_K2AN730_.IES	EALS03_K2AN740_.IES	EALS03_K2AN750_.IES

Photometrics

Evolve™ LED Area Light (EALS-03)

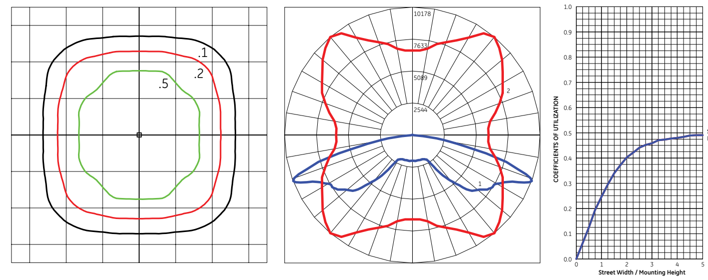
EALS Type II - Asymmetric Narrow/Auto
30,300 Lumens, 5000K (EALS03_K2AN750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 55°
Vertical plane through horizontal angle of 34°

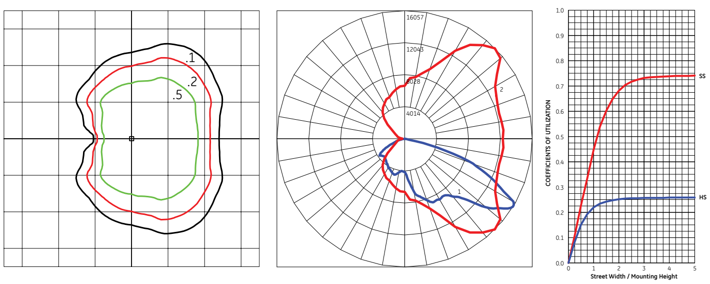
EALS Type VS - Symmetric High Angle
29,000 Lumens, 5000K (EALS03_K5SH750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 50°
Vertical plane through horizontal angle of 69°

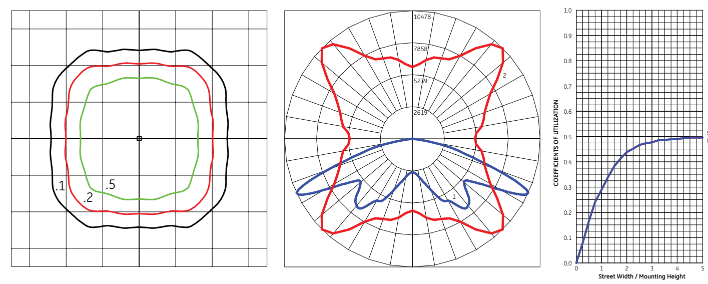
EALS Type III - Asymmetric Wide
30,300 Lumens, 5000K (EALS03_K3AW750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 58°

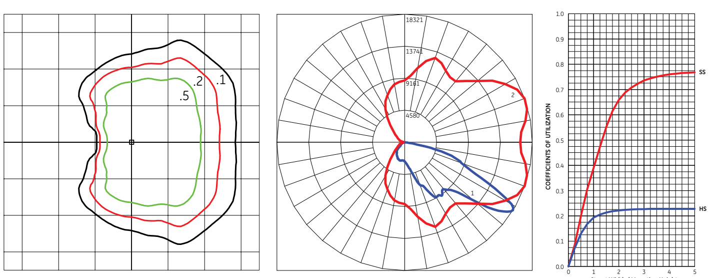
EALS Type VS - Symmetric Medium
30,000 Lumens, 5000K (EALS03_K5SM750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 65°

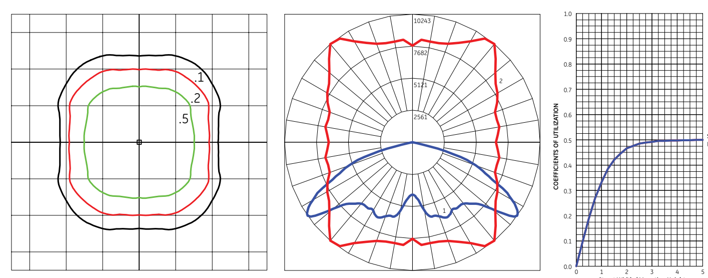
EALS Type IV - Asymmetric Forward
30,000 Lumens, 5000K (EALS03_K4AF750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 20°
Vertical plane through horizontal angle of 58°

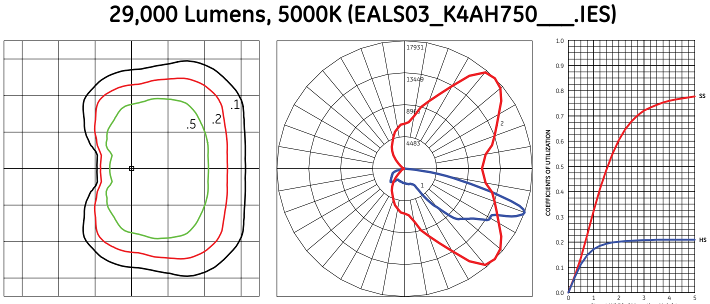
EALS Type VS - Symmetric Wide
30,300 Lumens, 5000K (EALS03_K5SW750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 50°
Vertical plane through horizontal angle of 55°

EALS Type IV - Asymmetric High Angle
29,000 Lumens, 5000K (EALS03_K4AH750___.IES)



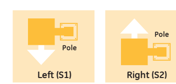
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 70°

Ordering Number Logic

Evolve™ LED Area Light (EALP-03)

EALP	03	_	__		7	__	_	_	__	____	___
PROD. ID	**GENERATION**	**VOLTAGE**	**OPTICAL DISTRIBUTION CODE**		**CRI**	**CCT**	**DIMMING**	**CONTROLS**	**MOUNTING ARM**	**COLOR**	**OPTIONS**
E = Evolve **AL** = Area Light **P** = Premium	**03** = 3rd Generation	**0** = 120-277* **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347 **H** = 347-480* *Not available with Fusing. Must choose a descreet voltage with F Option		**SM** = Symmetric Medium **SW** = Symmetric Wide **SH** = Symmetric High Angle **AF** = Asymmetric Forward **AH** = Asymmetric High Angle **AW** = Asymmetric Wide **AN** = Asymmetric Narrow/Auto	**7** = 70 (min)	**30** = 3000K◇ **40** = 4000K **50** = 5000K ◇Select 3000K CCT for IDA Approved units	**N** = Dimming thru PE receptacle **D** = External Dimming 18/2-3ft cable **X** = Non-dimmable* All constructions supplied with ANSI C136.41 7-pin Receptacle ***Required for Cx Optical Codes. Not available for other optical codes. **Note:** Standard dimming 0-10V	**A** = ANSI 7-pin PE receptacle (no control) **D** = ANSI 7-pin PE receptacle with shorting cap provided **Note:** See accessories section on page 10 for PE Control ordering	**C1** = Integral Slip-fitter 2" Pipe (2.378 in. OD)* **D1** = Universal Mounting Arm, fitted for round or square pole mounting** **K1** = Knuckle Slipfitter for 1.9 in - 2.3in. OD Tenon*++ **S1** = Knuckle Slipfitter for 2.3in. - 3.0in OD Tenon*++ **V1** = Knuckle Wall Mount*++ * Supplied with leads ** Supplied with 16/3 ft cable ++ Restricted Aiming Angle 0° to +45°	**GRAY** = Gray **BLCK** = Black **DKBZ** = Dark Bronze **WHTE** = White	**F** = Fusing **H** = Motion Sensor (Sensor Switch) **H2** = Motion Sensor (Daintree) **J** = cUL/Canada **L** = Tool-Less Entry **R** = Enhanced Surge Protection (10kV/5kA) **S1** = Rotated Left † **S2** = Rotated Right † **T** = Elevated Surge Protection (20kV/10kA) **U** = DALI dimming ^+ **V** = 3-Position Terminal Block **Y** = Coastal Finish **XXX** = Special Options * Contact Manufacturer for availability + Compatible with LightGrid 2.0 nodes ^ Not compatible at 347-480V, with motion sensor controls, or above 400W. † For aimed left or right light distribution orientation, as assembled in manufacturing. Not applicable for Symmetric Distributions. **Note:** H option not available for 470W and above con igurations. **Note:** H2 option not available at 370V-480V



TYPE	OPTICAL CODE	DISTRIBUTION	TYPICAL INITIAL LUMENS 3000K	TYPICAL INITIAL LUMENS 4000K & 5000K	TYPICAL SYSTEM WATTAGE 120-277V & 347-480V	BUG RATING 3000K B-U-G	BUG RATING 4000 & 5000K B-U-G	IES FILE NUMBER 3000K	IES FILE NUMBER 4000K	IES FILE NUMBER 5000K
Type V	J5	Symmetric Medium (SM)	23600	25000	172	B4-U0-G2	B4-U0-G2	EALP03_J5SM730_.IES	EALP03_J5SM740_.IES	EALP03_J5SM750_.IES
	K5	Symmetric Medium (SM)	28300	30000	212	B5-U0-G3	B5-U0-G3	EALP03_K5SM730_.IES	EALP03_K5SM740_.IES	EALP03_K5SM750_.IES
	L5	Symmetric Medium (SM)	33000	35000	263	B5-U0-G3	B5-U0-G3	EALP03_L5SM730_.IES	EALP03_L5SM740_.IES	EALP03_L5SM750_.IES
	M5	Symmetric Medium (SM)	37800	40000	305	B5-U0-G3	B5-U0-G4	EALP03_M5SM730_.IES	EALP03_M5SM740_.IES	EALP03_M5SM750_.IES
	N5	Symmetric Medium (SM)	47200	50000	400	B5-U0-G4	B5-U0-G4	EALP03_N5SM730_.IES	EALP03_N5SM740_.IES	EALP03_N5SM750_.IES
	P5	Symmetric Medium (SM)	56700	60000	470	B5-U0-G4	B5-U0-G4	EALP03_P5SM730_.IES	EALP03_P5SM740_.IES	EALP03_P5SM750_.IES
	Q5	Symmetric Medium (SM)	66100	70000	570	B5-U0-G5	B5-U0-G5	EALP03_Q5SM730_.IES	EALP03_Q5SM740_.IES	EALP03_Q5SM750_.IES
	J5	Symmetric Wide (SW)	23600	25000	172	B4-U0-G2	B4-U0-G2	EALP03_J5SW730_.IES	EALP03_J5SW740_.IES	EALP03_J5SW750_.IES
	K5	Symmetric Wide (SW)	28300	30000	212	B5-U0-G2	B5-U0-G2	EALP03_K5SW730_.IES	EALP03_K5SW740_.IES	EALP03_K5SW750_.IES
	L5	Symmetric Wide (SW)	33000	35000	263	B5-U0-G2	B5-U0-G2	EALP03_L5SW730_.IES	EALP03_L5SW740_.IES	EALP03_L5SW750_.IES
	M5	Symmetric Wide (SW)	37800	40000	305	B5-U0-G2	B5-U0-G2	EALP03_M5SW730_.IES	EALP03_M5SW740_.IES	EALP03_M5SW750_.IES
	N5	Symmetric Wide (SW)	47200	50000	400	B5-U0-G3	B5-U0-G3	EALP03_N5SW730_.IES	EALP03_N5SW740_.IES	EALP03_N5SW750_.IES
	P5	Symmetric Wide (SW)	56700	60000	470	B5-U0-G3	B5-U0-G3	EALP03_P5SW730_.IES	EALP03_P5SW740_.IES	EALP03_P5SW750_.IES
	Q5	Symmetric Wide (SW)	66100	70000	570	B5-U0-G4	B5-U0-G4	EALP03_Q5SW730_.IES	EALP03_Q5SW740_.IES	EALP03_Q5SW750_.IES
	J5	Symmetric High Angle (SH)	22700	24100	172	B5-U0-G3	B5-U0-G3	EALP03_J5SH730_.IES	EALP03_J5SH740_.IES	EALP03_J5SH750_.IES
	K5	Symmetric High Angle (SH)	27400	29000	212	B5-U0-G3	B5-U0-G3	EALP03_K5SH730_.IES	EALP03_K5SH740_.IES	EALP03_K5SH750_.IES
	L5	Symmetric High Angle (SH)	31900	33800	263	B5-U0-G4	B5-U0-G4	EALP03_L5SH730_.IES	EALP03_L5SH740_.IES	EALP03_L5SH750_.IES
	M5	Symmetric High Angle (SH)	36400	38600	305	B5-U0-G4	B5-U0-G4	EALP03_M5SH730_.IES	EALP03_M5SH740_.IES	EALP03_M5SH750_.IES
	N5	Symmetric High Angle (SH)	45600	48300	400	B5-U0-G4	B5-U0-G5	EALP03_N5SH730_.IES	EALP03_N5SH740_.IES	EALP03_N5SH750_.IES
	P5	Symmetric High Angle (SH)	54800	58000	470	B5-U0-G5	B5-U0-G5	EALP03_P5SH730_.IES	EALP03_P5SH740_.IES	EALP03_P5SH750_.IES
	Q5	Symmetric High Angle (SH)	63800	67600	570	B5-U0-G5	B5-U0-G5	EALP03_Q5SH730_.IES	EALP03_Q5SH740_.IES	EALP03_Q5SH750_.IES

Type IV, Type III and Type II Claims Table for EALP-03 continued on Page 6

Ordering Number Logic

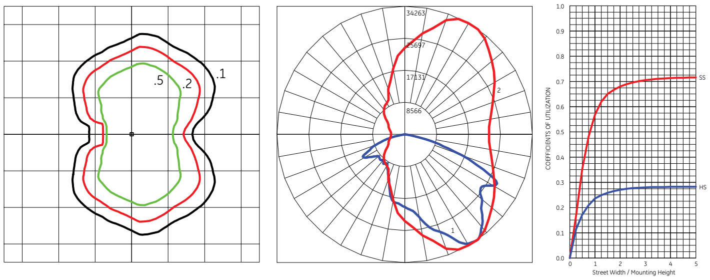
Evolve™ LED Area Light (EALP-03)

TYPE	OPTICAL CODE	DISTRIBUTION	TYPICAL INITIAL LUMENS 3000K	TYPICAL INITIAL LUMENS 4000K & 5000K	TYPICAL SYSTEM WATTAGE 120-277V & 347-480V	BUG RATING 3000K B-U-G	BUG RATING 4000 & 5000K B-U-G	IES FILE NUMBER 3000K	IES FILE NUMBER 4000K	IES FILE NUMBER 5000K
Type IV	J4	Asymmetric Forward (AF)	23600	25000	200	B3-U0-G3	B3-U0-G4	EALP03_J4AF730_.IES	EALP03_J4AF740_.IES	EALP03_J4AF750_.IES
	K4	Asymmetric Forward (AF)	28300	30000	212	B3-U0-G4	B3-U0-G4	EALP03_K4AF730_.IES	EALP03_K4AF740_.IES	EALP03_K4AF750_.IES
	L4	Asymmetric Forward (AF)	33000	35000	263	B3-U0-G4	B3-U0-G4	EALP03_L4AF730_.IES	EALP03_L4AF740_.IES	EALP03_L4AF750_.IES
	M4	Asymmetric Forward (AF)	37800	40000	305	B4-U0-G4	B4-U0-G5	EALP03_M4AF730_.IES	EALP03_M4AF740_.IES	EALP03_M4AF750_.IES
	N4	Asymmetric Forward (AF)	47200	50000	400	B4-U0-G5	B4-U0-G5	EALP03_N4AF730_.IES	EALP03_N4AF740_.IES	EALP03_N4AF750_.IES
	P4	Asymmetric Forward (AF)	56700	60000	470	B4-U0-G5	B4-U0-G5	EALP03_P4AF730_.IES	EALP03_P4AF740_.IES	EALP03_P4AF750_.IES
	Q4	Asymmetric Forward (AF)	66100	70000	570	B4-U0-G5	B4-U0-G5	EALP03_Q4AF730_.IES	EALP03_Q4AF740_.IES	EALP03_Q4AF750_.IES
	J4	Asymmetric High Angle (AH)	22700	24100	200	B3-U0-G4	B3-U0-G4	EALP03_J4AH730_.IES	EALP03_J4AH740_.IES	EALP03_J4AH750_.IES
	K4	Asymmetric High Angle (AH)	27400	29000	212	B3-U0-G4	B3-U0-G5	EALP03_K4AH730_.IES	EALP03_K4AH740_.IES	EALP03_K4AH750_.IES
	L4	Asymmetric High Angle (AH)	31900	33800	263	B4-U0-G5	B4-U0-G5	EALP03_L4AH730_.IES	EALP03_L4AH740_.IES	EALP03_L4AH750_.IES
	M4	Asymmetric High Angle (AH)	36400	38600	305	B4-U0-G5	B4-U0-G5	EALP03_M4AH730_.IES	EALP03_M4AH740_.IES	EALP03_M4AH750_.IES
	N4	Asymmetric High Angle (AH)	45600	48300	400	B4-U0-G5	B4-U0-G5	EALP03_N4AH730_.IES	EALP03_N4AH740_.IES	EALP03_N4AH750_.IES
	P4	Asymmetric High Angle (AH)	54800	58000	470	B4-U0-G5	B4-U0-G5	EALP03_P4AH730_.IES	EALP03_P4AH740_.IES	EALP03_P4AH750_.IES
	Q4	Asymmetric High Angle (AH)	63800	67600	570	B5-U0-G5	B5-U0-G5	EALP03_Q4AH730_.IES	EALP03_Q4AH740_.IES	EALP03_Q4AH750_.IES
Type III	J3	Asymmetric Wide (AW)	23600	25000	200	B3-U0-G3	B3-U0-G3	EALP03_J3AW730_.IES	EALP03_J3AW740_.IES	EALP03_J3AW750_.IES
	K3	Asymmetric Wide (AW)	28300	30000	212	B3-U0-G3	B3-U0-G3	EALP03_K3AW730_.IES	EALP03_K3AW740_.IES	EALP03_K3AW750_.IES
	L3	Asymmetric Wide (AW)	33000	35000	263	B3-U0-G3	B4-U0-G3	EALP03_L3AW730_.IES	EALP03_L3AW740_.IES	EALP03_L3AW750_.IES
	M3	Asymmetric Wide (AW)	37800	40000	305	B4-U0-G3	B4-U0-G4	EALP03_M3AW730_.IES	EALP03_M3AW740_.IES	EALP03_M3AW750_.IES
	N3	Asymmetric Wide (AW)	47200	50000	400	B4-U0-G4	B4-U0-G4	EALP03_N3AW730_.IES	EALP03_N3AW740_.IES	EALP03_N3AW750_.IES
	P3	Asymmetric Wide (AW)	56700	60000	470	B5-U0-G4	B5-U0-G4	EALP03_P3AW730_.IES	EALP03_P3AW740_.IES	EALP03_P3AW750_.IES
	Q3	Asymmetric Wide (AW)	66100	70000	570	B5-U0-G5	B5-U0-G5	EALP03_Q3AW730_.IES	EALP03_Q3AW740_.IES	EALP03_Q3AW750_.IES
Type II	J2	Asymmetric Narrow/Auto (AN)	23800	25200	200	B3-U0-G3	B3-U0-G3	EALP03_J2AN730_.IES	EALP03_J2AN740_.IES	EALP03_J2AN750_.IES
	K2	Asymmetric Narrow/Auto (AN)	28600	30300	212	B3-U0-G3	B3-U0-G3	EALP03_K2AN730_.IES	EALP03_K2AN740_.IES	EALP03_K2AN750_.IES
	L2	Asymmetric Narrow/Auto (AN)	33300	35300	263	B4-U0-G4	B4-U0-G4	EALP03_L2AN730_.IES	EALP03_L2AN740_.IES	EALP03_L2AN750_.IES
	M2	Asymmetric Narrow/Auto (AN)	38100	40400	305	B4-U0-G4	B4-U0-G4	EALP03_M2AN730_.IES	EALP03_M2AN740_.IES	EALP03_M2AN750_.IES
	N2	Asymmetric Narrow/Auto (AN)	47700	50500	400	B4-U0-G4	B4-U0-G4	EALP03_N2AN730_.IES	EALP03_N2AN740_.IES	EALP03_N2AN750_.IES
	P2	Asymmetric Narrow/Auto (AN)	57200	60600	470	B4-U0-G4	B4-U0-G4	EALP03_P2AN730_.IES	EALP03_P2AN740_.IES	EALP03_P2AN750_.IES
	Q2	Asymmetric Narrow/Auto (AN)	66800	70700	570	B5-U0-G5	B5-U0-G5	EALP03_Q2AN730_.IES	EALP03_Q2AN740_.IES	EALP03_Q2AN750_.IES

Photometrics

Evolve™ LED Area Light (EALP-03)

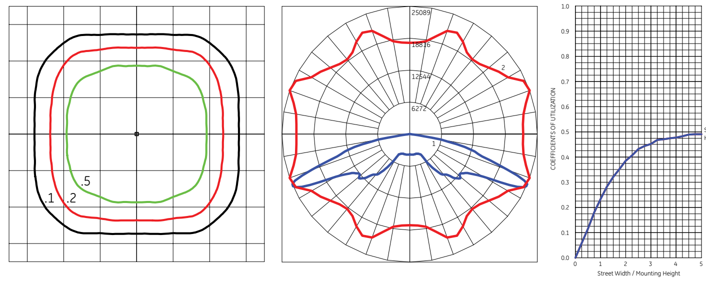
EALP Type II - Asymmetric Narrow/Auto
70,700 Lumens, 5000K (EALP03_Q2AN750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 60°
Vertical plane through horizontal angle of 35°

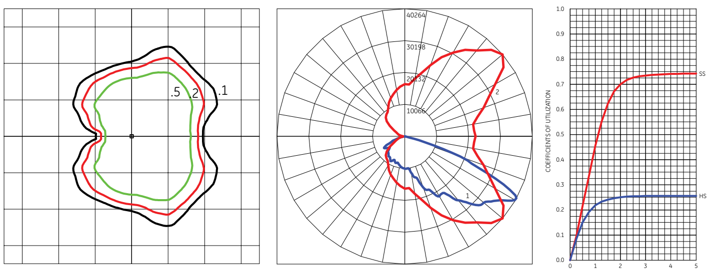
EALP Type VS - Symmetric High Angle
67,600 Lumens, 5000K (EALP03_Q5SH750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 20°
Vertical plane through horizontal angle of 66°

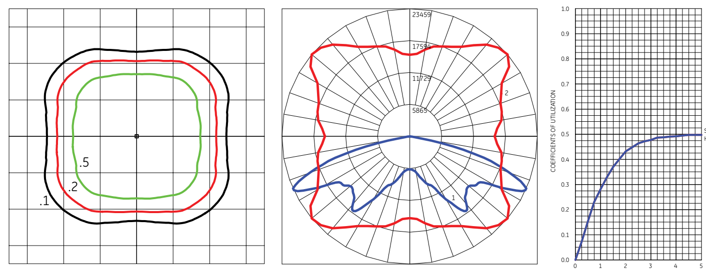
EALP Type III - Asymmetric Wide
70,000 Lumens, 5000K (EALP03_Q3AW750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 40°
Vertical plane through horizontal angle of 61°

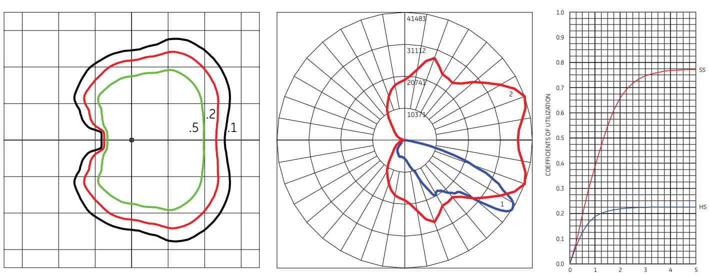
EALP Type VS - Symmetric Medium
70,000 Lumens, 5000K (EALP03_Q5SM750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 40°
Vertical plane through horizontal angle of 65°

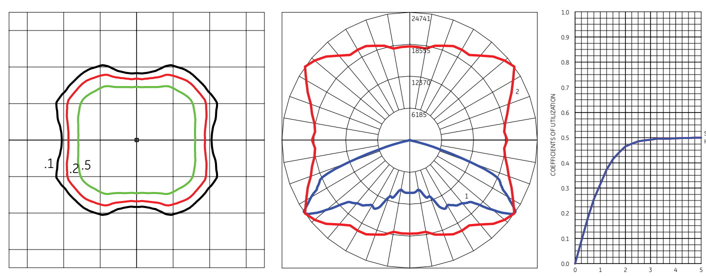
EALP Type IV - Asymmetric Forward
70,000 Lumens, 5000K (EALP03_Q4AF750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 20°
Vertical plane through horizontal angle of 57°

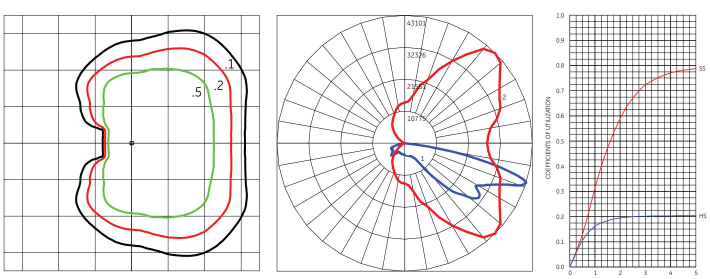
EALP Type VS - Symmetric Wide
70,000 Lumens, 5000K (EALP03_Q5SW750___.IES)



Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

Vertical plane through horizontal angle of maximum candlepower at 35°
Vertical plane through horizontal angle of 56°

EALP Type IV - Asymmetric High Angle
67,700 Lumens, 5000K (EALP03_Q4AH750___.IES)



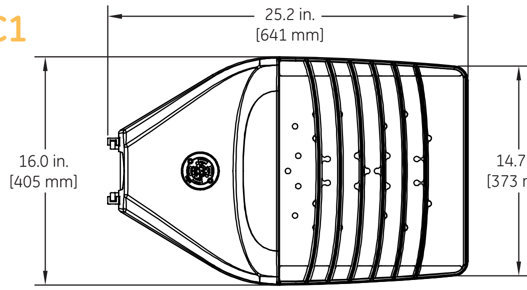
Grid Distance in Units of Mounting Height at 40' Initial Footcandle Values at Grade

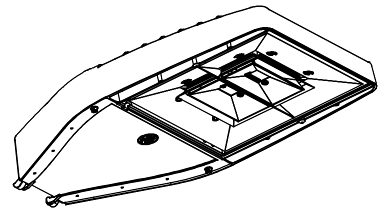
Vertical plane through horizontal angle of maximum candlepower at 45°
Vertical plane through horizontal angle of 72°

Product Dimensions

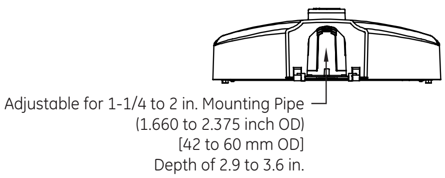
Evolve™ LED Area Light (EALS-03 & EALP-03)

Integral Slipfitter: C1

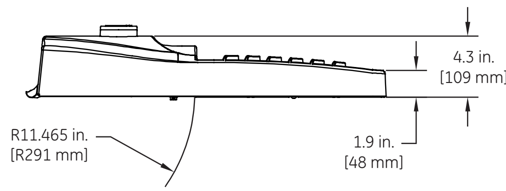




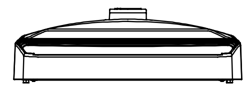
TOP VIEW



BACK VIEW

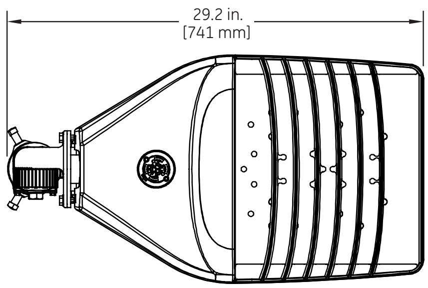


SIDE VIEW

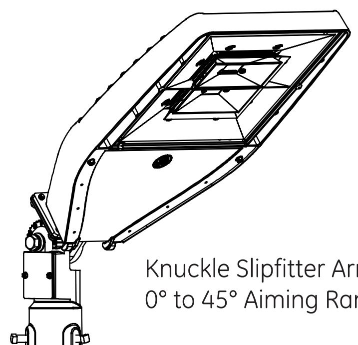


FRONT VIEW

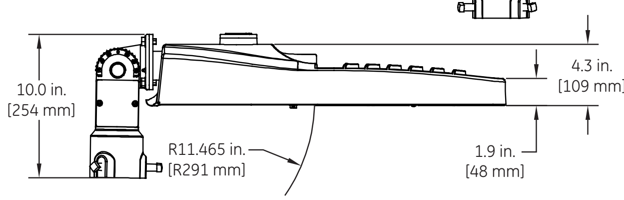
Knuckle Slipfitter: S1



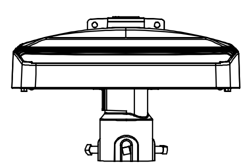
TOP VIEW



Knuckle Slipfitter Arm Mount
0° to 45° Aiming Range

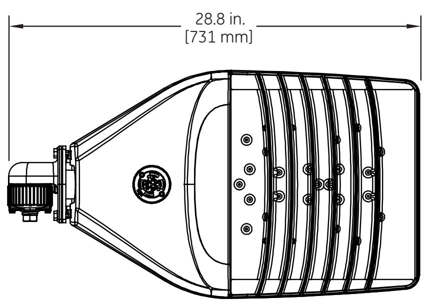


SIDE VIEW

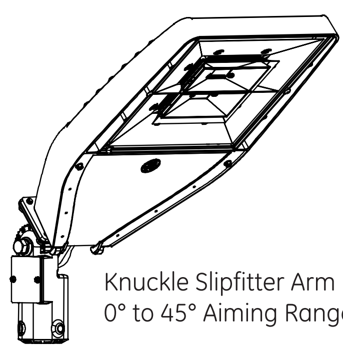


FRONT VIEW

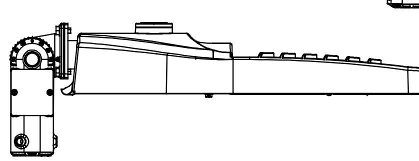
Knuckle Slipfitter: K1



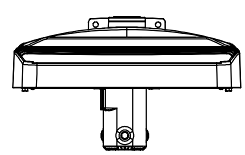
TOP VIEW



Knuckle Slipfitter Arm Mount
0° to 45° Aiming Range



SIDE VIEW

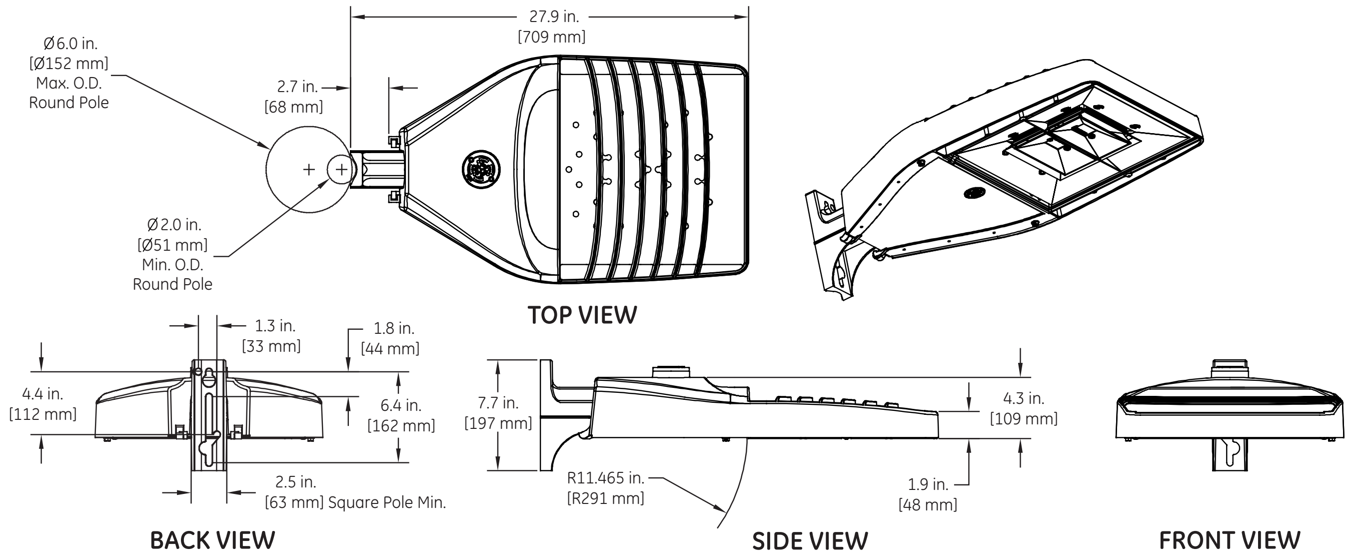


FRONT VIEW

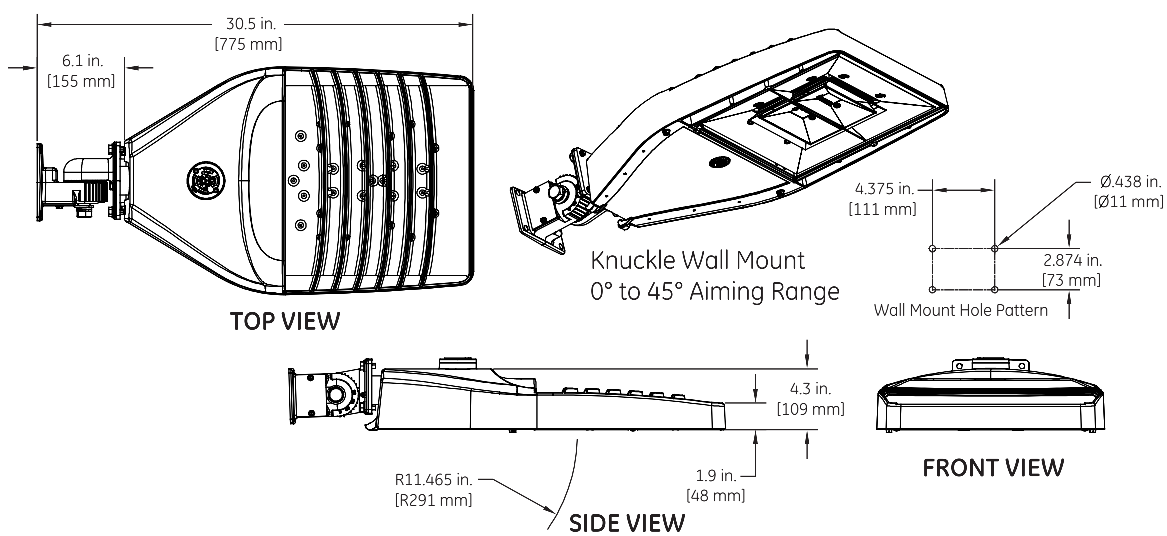
Product Dimensions

Evolve™ LED Area Light (EALS-03 & EALP-03)

Universal Mounting Arm: D1



Knuckle Wall Mount: V1



DATA

- Approximate Net Weight: 27 lbs (12.2 kg)
- Effective Projected Area:
  - – Knuckle Slipfitter S1, K1 45° aim, EPA = 2.45
  - – Knuckle Slipfitter S1, K1 downward aim, EPA = 0.73
  - – Universal Arm Mount D1, EPA = 0.54 - Knuckle Wall Mount V1, 45° aim, EPA = 0.77 sq ft min and 1.43 sq ft max
  - – Integral Slipfitter C1, EPA = 0.63

Accessories

Evolve™ LED Area Light (EALS-03 & EALP-03)

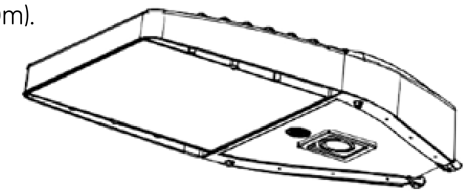
PE Accessories (to be ordered separately)

SAP Number	Part Number	Description
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V

SAP Number	Part Number	Description
28299	PECOTL	STANDARD 120-277V
28294	PEC5TL	STANDARD 480V
80436	PECDTL	STANDARD 347V
73251	SCCL-PECTL	Shorting cap

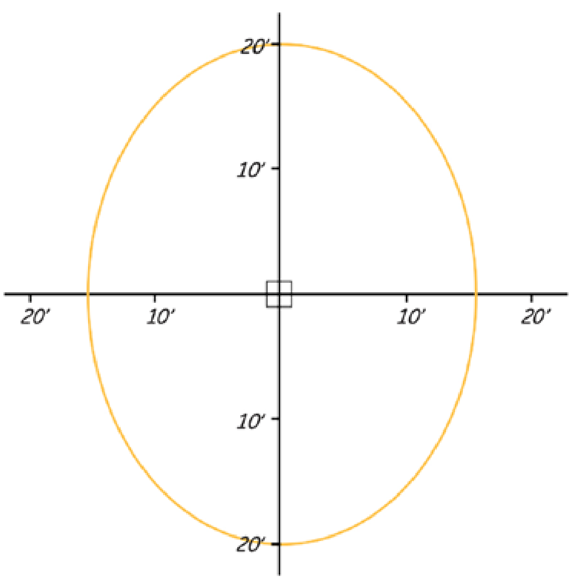
H-Motion Sensing Option

- Intended for applications, between 15-30 ft. mounting height. (4.57-9.14m). For mounting heights exceeding 30 ft., pole mounted sensors are recommended.
- Provides a coverage area radius for walking motion of 15-20 ft. (4.57-6.10m).
- Provides 270° of coverage (~90° is blocked by the pole).
- Standard factory settings:
  – 50% output when unoccupied, 100% output occupied.
  – Integral PE Sensor.
  – 5 minute post-occupancy time delay, 5 minute dimming ramp-down.
- Fixture power increase of 1W expected with sensor use.



Note: Standard options may be reprogrammed in the field. Reprogramming instructions included in product shipment.

Sensor Pattern



Sensing Pattern Area Fixture
Up to 30 ft. Mounting Height

Mounting Information

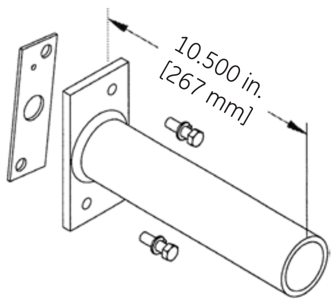
Evolve™ LED Area Light (EALS-03 & EALP-03)

Mounting Options for Integral Slipfitter - (Mounting Arm C1)

Order separately

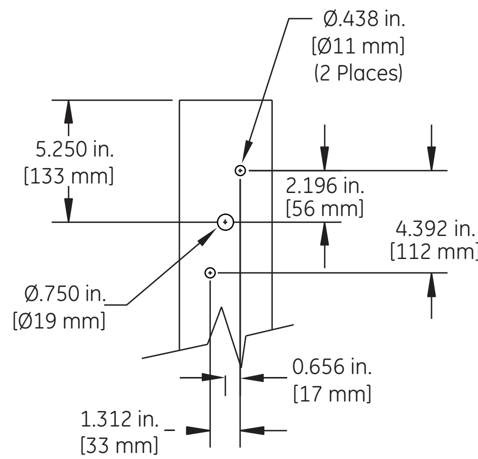
SQUARE POLE MOUNTING ARM

3.5 TO 4.5-inch (89 to 114mm) SQUARE
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



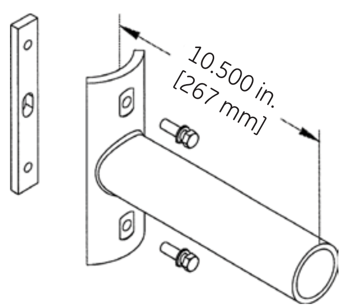
ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
SPA-EAMT10BLCK "Black"
SPA-EAMT10DKBZ "Dark Bronze"
SPA-EAMT10WHTE "White"
SPA-EAMT10GRAY "Gray"

SQUARE POLE MOUNTING DRILLING TEMPLATE



ROUND POLE MOUNTING ARM DRILLING TEMPLATE

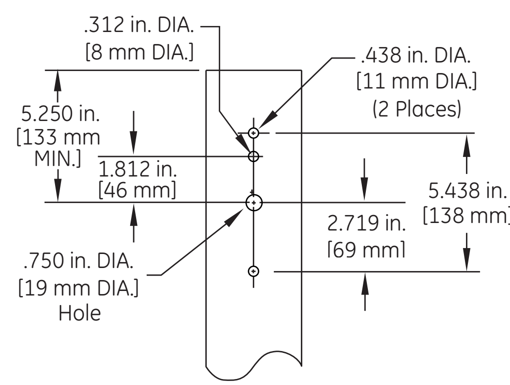
3.5 TO 4.5-inch (89 to 114mm) OD
(WILL ALLOW 4 FIXTURES PER POLE @ 90 DEGREES.)



ORDER SEPARATELY FROM FIXTURE AS CATALOG NUMBER
RPA-EAMT10BLCK "Black"
RPA-EAMT10DKBZ "Dark Bronze"
RPA-EAMT10WHTE "White"
RPA-EAMT10GRAY "Gray"

ROUND POLE MOUNTING DRILLING TEMPLATE

3.5 TO 4.5-inch (89 to 114mm) OD
round pole mounting arm



Wall Mounting Bracket Adapter Plate

ORDER SEPERATELY FROM FIXTURE AS CATALOG NUMBER
WMB-EAMT06

***NOTE:** For Wall Mounting, order luminaire with mounting arm: C1 = Slipfitter 2" Pipe (2.378 in. OD) supplied with leads.

Other mounting patterns are available for retrofit installations. Contact manufacturing for other available mounting patterns.

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