



June 5, 2024

Melanie A. Bachman Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051

RE:

Notice of Exempt Modification for Crown Castle Fiber LLC

Crown Site ID# 876375

53 Westminster Rd., Canterbury, CT 06331

Latitude: 41° 42′ 7.15″/ Longitude: -71° 58′ 50.11″

Dear Ms. Bachman:

Crown Castle Fiber LLC proposes to install a fiber cabinet and a backup diesel generator in the compound of the existing 180-foot monopole tower located at 53 Westminster Rd., Canterbury, CT 06331. The property is owned by CROWN CASTLE TOWERS 09 LL and the tower is owned by Crown Castle.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mike Walsh – Town Manager, Town of Granby, Joel Skilton – Building Official & ZEO, Town of Granby. Pease Martha C & Dalton Sarah P Co-Trust, Property Owner and Crown Castle is the tower owner.

Crown Castle Fiber LLC respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Irina Gardini.

Sincerely

Irina Gardini

Sr. Permitting Specialist

3470 NW 82nd Ave, 10th Floor

Doral, FL 33122 (786) 610-7030

Irina.Gardini@crowncastle.com

The Foundation for a Wireless World.

CrownCastle.com



CCF SITE NAME: N/A

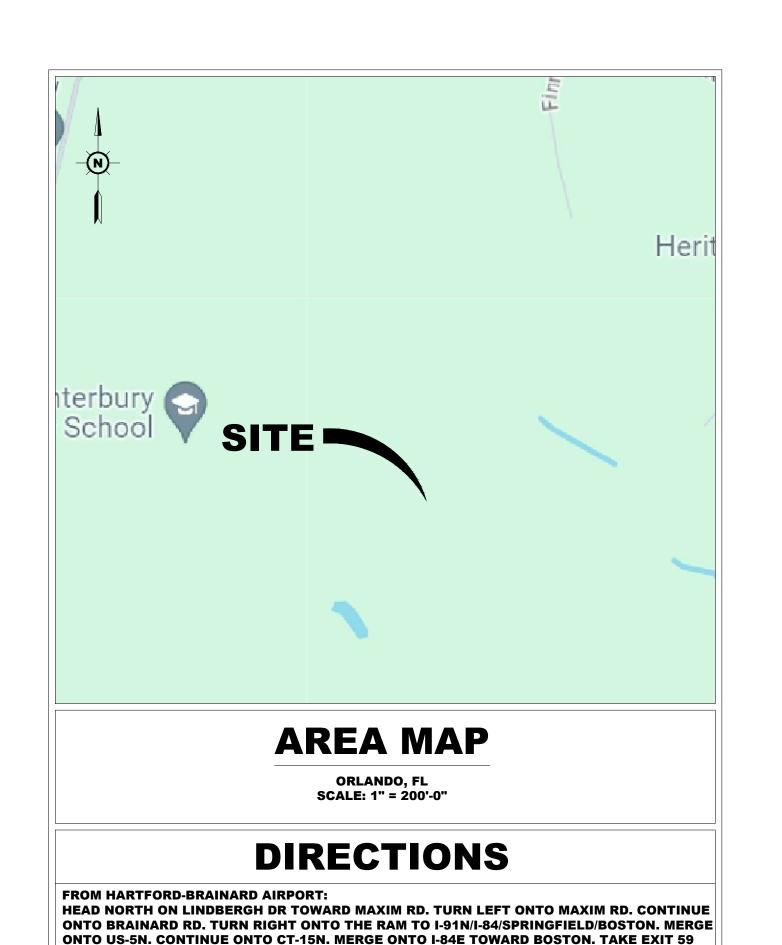
CCI SITE NAME: CANTERBURY / LEMIRE

> BU#: 876375

SITE ADDRESS:
53 WESTMINSTER ROAD
CANTERBURY, CT 06331
JURISDICTION:
WINDHAM COUNTY

SITE INFORMATION SITE NAME: CANTERBURY / LEMIRE CROWN BUSINESS UNIT: SITE ADDRESS: 53 WESTMINSTER ROAD CANTERBURY, CT 06631 PARCEL ID: JURISDICTION: TOWN OF CANTERBURY SITE COORDINATES: N 41° 42' 07.07" (NAD 83) W 71° 58' 50.01" (NAD 83) TENANT: CROWN CASTLE FIBER NETWORKS 80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 LANDLORD'S NAME: 3530 TORINGDON WAY, STE33 CHARLOTTE, NC 28277 GROUND LANDLORD FEMA FIRM MAP 0901830016A EFF. 10/16/1984 FLOOD ZONE:

CODE ANALYSIS		
BUILDING CODE:	2022 CONNECTICUT STATE BUILDING CODE	
ELECTRICAL CODE:	NEC 2020	
USE GROUP:	U (UTILITY)	
CONSTRUCTION TYPE:	V-B	



FOR I-384E TOWARD PROVIDENCE. CONTINUE ONTO I-384. KEEP LEFT TO STAY ON I-384E. CONTINUE ONTO US-44E/US-6E. SLIGHT RIGHT ONTO US-6E. TURN LEFT TO STAY ON US-6E. TURN LEFT ONTO BOSTON POST RD (SIGNS FOR CT-66/WILLIMATIC). TURN LEFT ONTO TUCKIE RD. TURN LEFT ONT CT-14E. TURN LEFT TO STAY ON CT-14E. CONTINUE ON CT-14E TO SITE

ON LEFT.

DRAWING SHEET	DRAWING TITLE
T-1	TITLE SHEET
Z-1	SITE PLAN
SP-1	SURVEY PLAN
A-1	COMPOUND PLAN
A-2	EQUIPMENT PLAN & ELEVATION PLAN
A-3	STANDBY GENERATOR DETAILS
A-4	DETAILS
E-1	ELECTRICAL NOTES & SPECIFICATIONS
E-2	UTILITY ROUTING PLAN
E-3	ONE LINE DIAGRAM & PANEL SCHEDULE
E-4	H-FRAME DETAIL
G-1	EQUIPMENT GROUNDING PLAN
G-2	GROUNDING DETAILS
G-3	GROUNDING DETAILS
D-1	OPTIONAL STANDBY GENERATOR DETAIL & SIGNAGE DETAILS
D-2	GENERATOR SPECS
D-3	GENERATOR SPECS
D-4	EQUIPMENT SPECS
D-5	EQUIPMENT SPECS
D-6	EQUIPMENT SPECS
D-7	EQUIPMENT SPECS

DO NOT SCALE DRAWINGS

CONTRACTOR IS TO VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS RELATING TO THIS PROJECT. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVI	HE CONSTRUCTION DESCRI EW BY THE LOCAL BUILDING
DEPARTMENT AND MAY IMPOSE CHANGES	
CROWN CASTLE FIBER PROJECT MANAGER	DATE:
CROWN CASTLE FIBER PROJECT MANAGER CROWN CASTLE FIBER CONSTRUCTION	DATE:

DATE:

PROPERTY OWNER



80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 PHONE (978) 264-6000





66 Perimeter Center East, Suite 600 Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

	SCI	HEDULE OF REVISIONS
0	05/31/24	ISSUED FOR PERMIT
В	05/31/24	ISSUED FOR CLIENT REVIEW
A	05/02/24	ISSUED FOR CLIENT REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES
DR	AWN BY:	CG
СН	IECKED B	Y: AC
SC	ALE:	NOTED
		230307600/876375

TITLE SHEET

DRAWING SHEET:



SITE INFORMATION: SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 1 OF 29





N

SITE INFORMATION

SITE NAME: CANTERBURY / LEMIRE

CROWN BUSINESS UNIT:

SITE ADDRESS:

PARCEL ID: JURISDICTION:

N 41° 42' 07.07" (NAD 83) W 71° 58' 50.01" (NAD 83) SITE COORDINATES:

CROWN CASTLE FIBER NETWORKS 80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 TENANT:

53 WESTMINSTER ROAD CANTERBURY, CT 06631

TOWN OF CANTERBURY

LANDLORD'S NAME: CROWN CASTLE

3530 TORINGDON WAY, STE33 CHARLOTTE, NC 28277 GROUND LANDLORD :

FEMA FIRM MAP : 0901830016A EFF. 10/16/1984

MORRISON

HERSHFIELD

80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719

PHONE (978) 264-6000



SCHEDULE OF REVISIONS

66 Perimeter Center East, Suite 600 Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

GENERAL NOTES:

- 1. THIS PLAN WAS PREPARED USING SURVEY MAPS BY GEOLINE SURVEYING, INC., LAST UPDATED 10-11-2011, AND SHOULD NOT BE CONSTRUED AS AN
- 2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
- 3. THE PROPOSED FACILITY WILL CAUSE NO INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
- HANDICAP ACCESS REQUIRED).
- SANITARY SERVICE.
- 6. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD
- 8. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.

- ACCURATE SURVEY.
- 4. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (THERE IS NO
- 5. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR
- 7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE. NO PUBLIC SIGNS WILL BE POSTED UNLESS OTHERWISE NOTED ON PLAN.

- o 05/31/24 ISSUED FOR PERMIT B 05/31/24 ISSUED FOR CLIENT REVIEW
- A 05/02/24 ISSUED FOR CLIENT REVIEW REV. DATE DESCRIPTION OF CHANGES
- **DRAWN BY:** CG **CHECKED BY:** AC SCALE: NOTED

DRAWING TITLE:

JOB NO:

SITE PLAN

230307600/876375

DRAWING SHEET:

SITE INFORMATION: SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 2 OF 29



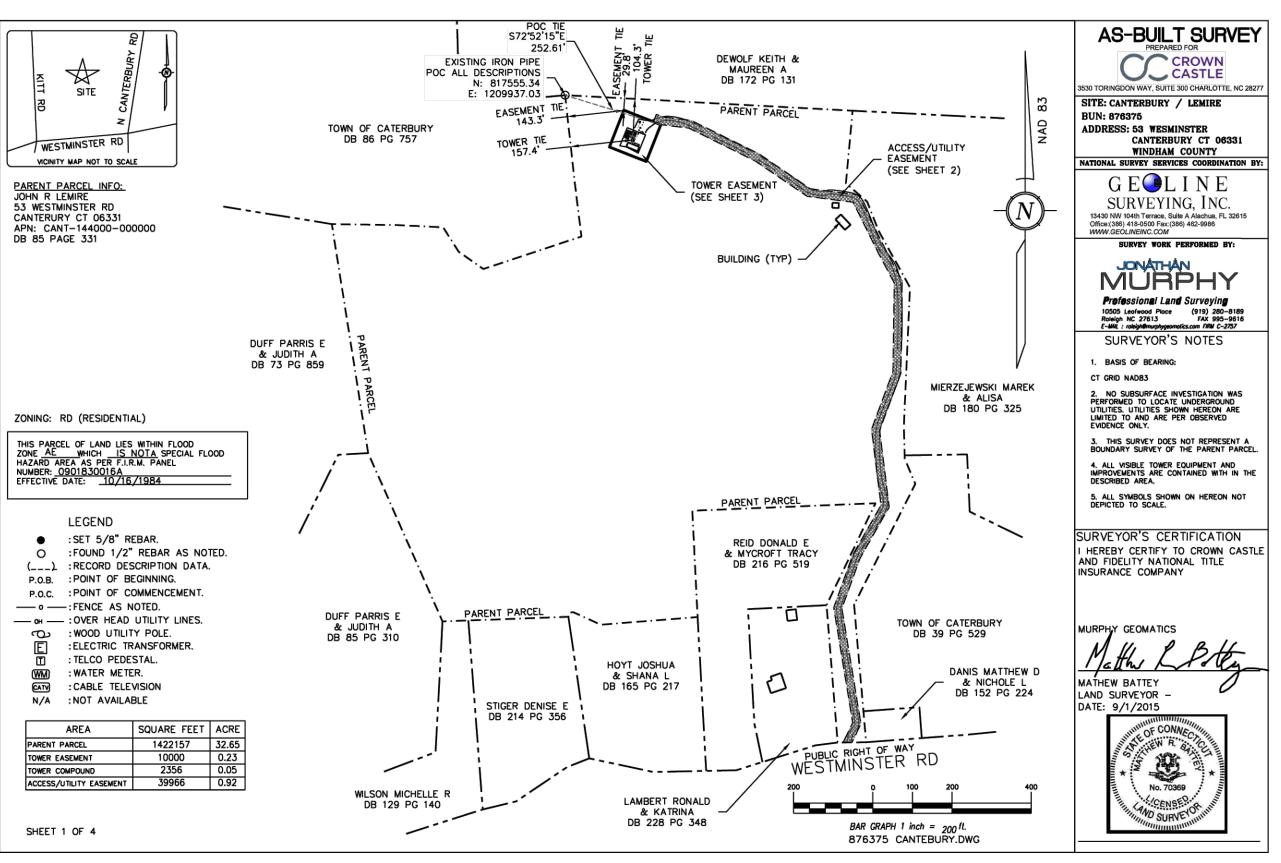
Know what's below.

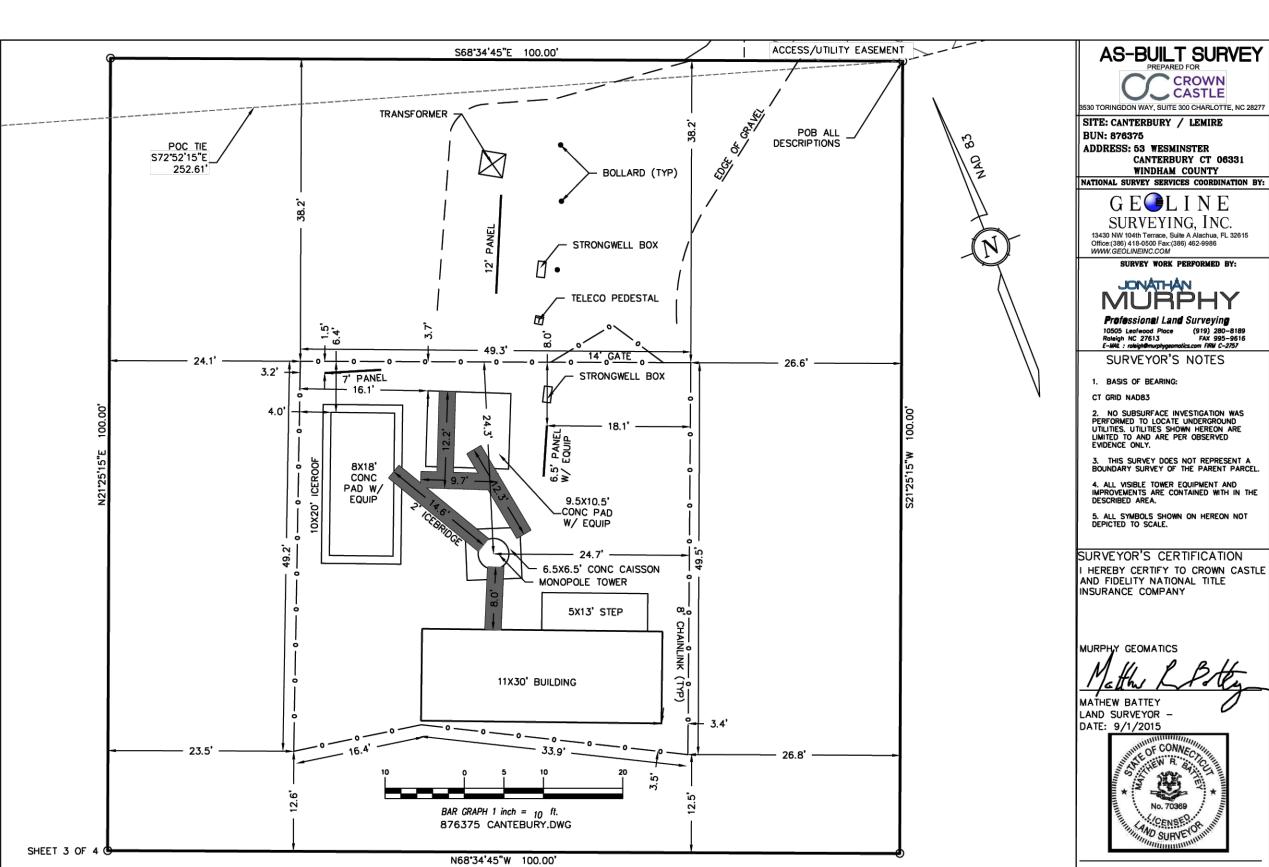
Call before you dig.

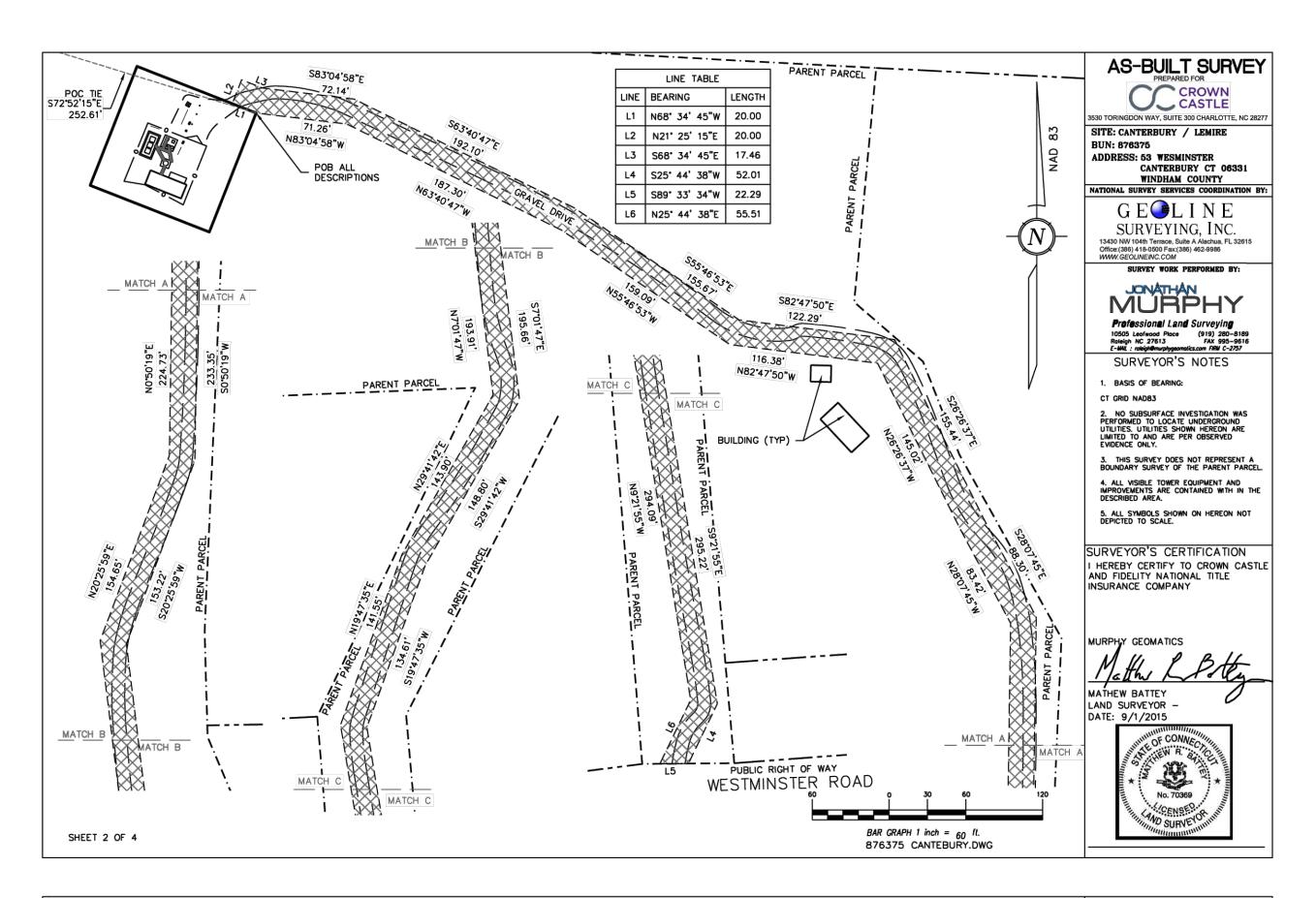
PROTECT YOURSELF, GIVE THREE
WORKING DAYS NOTICE
THIS DRAWING DOES NOT INCLUDE NECESSARY
COMPONENTS FOR CONSTRUCTION SAFETY. ALL
CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH
LATEST EDITION OF THE OCCUPATIONAL SAFETY AND HEALTH
ACT OF 1970 AND ALL RULES AND REGULATIONS
THERE TO APPURTENANT.

SITE PLAN Z-1 SCALE: 1"=20'-0" GRAPHIC SCALE

(IN FEET) 3/32 inch = 1 ft. (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY) (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)







LEGAL DESCRIPTION: TOWER EASEMENT (CREATED BY THIS OFFICE)

ALL THAT CERTAIN PARCEL OF LAND LYING IN THE TOWN OF CANTERBURY, COUNTY OF WINDHAM, STATE OF CONNECTICUT, DESCRIBED IN DEED BOOK 85 PAGE 331, FURTHER DESCRIBED AS:

COMMENCING FROM AN EXISTING IRON PIPE FOUND ON THE NORTH WESTERN MOST PROPERTY CORNER, HAVING CONNECTICUT STATE PLANE COORDINATES E: 1209937.03 -AND- N: 817555.34; THENCE, S 72° 52' 15" E FOR A DISTANCE OF 252.61 FEET TO THE POINT OF BEGINNING; THENCE, S 21° 25' 15" W FOR A DISTANCE OF 100.00 FEET TO A POINT; THENCE, N 68° 34' 45" W FOR A DISTANCE OF 100.00 FEET TO A POINT; THENCE N 21° 25' 15" E A DISTANCE OF 100.00 FEET TO A POINT; THENCE N 21° 25' 15" E A DISTANCE OF 100.00 FEET TO A POINT; THENCE N 21° 25' 15" E A DISTANCE OF 100.00 FEET TO A POINT; THENCE N 21° 25' 15" E A DISTANCE OF 100.00 FEET TO A POINT; THENCE N 21° 25' 15" E A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING

LEGAL DESCRIPTION: ACCESS/UTILITY EASEMENT (CREATED BY THIS OFFICE)

ALL THAT CERTAIN PARCEL OF LAND LYING IN THE TOWN OF CANTERBURY, COUNTY OF WINDHAM, STATE OF CONNECTICUT, DESCRIBED IN DEED BOOK 85 PAGE 331, FURTHER DESCRIBED AS:

COMMENCING FROM AN EXISTING IRON PIPE FOUND ON THE NORTH WESTERN MOST PROPERTY CORNER, HAVING CONNECTICUT STATE PLANE COORDINATES E: 1209937.03 -AND- N: 817555.34; THENCE, S 72° 52′ 15″ E FOR A DISTANCE OF 22.61 FEET TO THE POINT OF BEGINNING; THENCE, N 68° 34′ 45″ W FOR A DISTANCE OF 20.00 FEET TO A POINT; THENCE, S 68° 34′ 45″ E FOR A DISTANCE OF 17.46 FEET TO A POINT; THENCE, S 83° 04′ 58″ E FOR A DISTANCE OF 72.14 FEET TO A POINT; THENCE, S 63° 40′ 47″ E FOR A DISTANCE OF 192.10 FEET TO A POINT; THENCE, S 55′ 46′ 53″ E FOR A DISTANCE OF 155.44 FEET TO A POINT; THENCE, S 26° 26′ 37″ E FOR A DISTANCE OF 155.44 FEET TO A POINT; THENCE, S 28° 07′ 45″ E FOR A DISTANCE OF 155.44 FEET TO A POINT; THENCE, S 28° 07′ 45″ E FOR A DISTANCE OF 155.44 FEET TO A POINT; THENCE, S 28° 27′ 45″ E FOR A DISTANCE OF 155.44 FEET TO A POINT; THENCE, S 28° 07′ 45″ E FOR A DISTANCE OF 195.66 FEET TO A POINT; THENCE, S 20° 25′ 59″ W FOR A DISTANCE OF 153.22 FEET TO A POINT; THENCE, S 09′ 21′ 55″ E FOR A DISTANCE OF 233.35 FEET TO A POINT; THENCE, S 20′ 25′ 59″ W FOR A DISTANCE OF 153.22 FEET TO A POINT; THENCE, S 09′ 21′ 55″ E FOR A DISTANCE OF 295.22 FEET TO A POINT; THENCE, S 25′ 44′ 38″ W FOR A DISTANCE OF 52.01 FEET TO A POINT ON THE NORTHERN RIGHT OF WAY OF WESTMINISTER ROAD, A DEDICATED PUBLIC RIGHT OF WAY THENCE, A DISTANCE OF 22.29 FEET A POINT; THENCE, DEPARTING SAID RIGHT OF WAY OF WESTMINISTER ROAD, A DEDICATED PUBLIC RIGHT OF WAY THENCE, N 09′ 21′ 55″ W FOR A DISTANCE OF 193.91 FEET TO A POINT; THENCE, N 09′ 21′ 55″ W FOR A DISTANCE OF 193.91 FEET TO A POINT; THENCE, N 09′ 21′ 55″ W FOR A DISTANCE OF 193.91 FEET TO A POINT; THENCE, N 09′ 21′ 47″ W FOR A DISTANCE OF 193.91 FEET TO A POINT; THENCE, N 26′ 26′ 37″ W FOR A DISTANCE OF 145.02 FEET TO A POINT; THENCE, N 82′ 47′ 50″ W FOR A DISTANCE OF 71.26 FEET TO A POINT; THENCE, N 63′ 40′ 47″ W FOR A DISTANCE OF 71.26 FEET TO A POINT; THENCE, N 82′ 47′ 50″ W FOR A DISTANCE OF 71.26 FEET TO A POINT; THENCE, N 83′ 40′ 45″ W FOR A DISTANCE OF 71.26 FEET TO A POINT; THENCE, N 83

SHEET 4 OF 4



3530 TORINGDON WAY, SUITE 300 CHARLOTTE
SITE: CANTERBURY / LEMIRE
BUN: 876375
ADDRESS: 53 WESMINSTER
CANTERBURY CT 063

NATIONAL SURVEY SERVICES COORDINATION BY:

GELINE
SURVEYING, INC.
13430 NW 104th Terrace, Suite A Alachua, FL 32615
Office (386) 418-0500 Fax (386) 462-9986
WW.GEOLINEINC.COM
SURVEY WORK PERFORMED BY:

Professional Land Surveying
10505 Lectivood Piace (919) 280-8189
Roleigh NC 27613 FAX 995-9616
C-MML: roleigh@murphygeomolics.com FRM C-2757

SURVEYOR'S NOTES

1. BASIS OF BEARING:
CT GRID NADB3

2. NO SUBSURFACE INVESTIGATION WAS PERFORMED TO LOCATE UNDERGROUND UTILITIES. UTILITIES SHOWN HEREON ARE LIMITED TO AND ARE PER OBSERVED EVIDENCE ONLY.

3. THIS SURVEY DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE PARENT PARCEL.

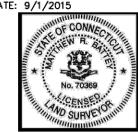
4. ALL VISIBLE TOWER EQUIPMENT AND
IMPROVEMENTS ARE CONTAINED WITH IN THE
DESCRIBED AREA.

5. ALL SYMBOLS SHOWN ON HEREON NOT
DEPICTED TO SCALE.

SURVEYOR'S CERTIFICATION
I HEREBY CERTIFY TO CROWN CASTLE
AND FIDELITY NATIONAL TITLE
INSURANCE COMPANY

MURPHY GEOMATICS

MATHEW BATTEY
LAND SURVEYOR DATE: 9/1/2015



SITE PLAN DISCLAIMER:

PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM PREVIOUS PLAN SETS OR FROM ASSESSORS MAPS. CROWN CASTLE USA INC. HAS NOT COMPLETED A SITE SURVEY AND THEREFORE MAKES NO CLAIMS AS TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET



80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 PHONE (978) 264-6000

> MORRISON HERSHFIELD



66 Perimeter Center East, Suite 600 Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

DRAWN BY: CG

CHECKED BY: AC

SCALE: NOTED

DRAWING TITLE:

JOB NO:

SURVEY PLAN

230307600/876375

DRAWING SHEET:

SP-1

SITE INFORMATION:
SITE NAME:
CANTERBURY / LEMIRE

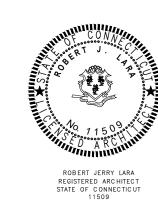
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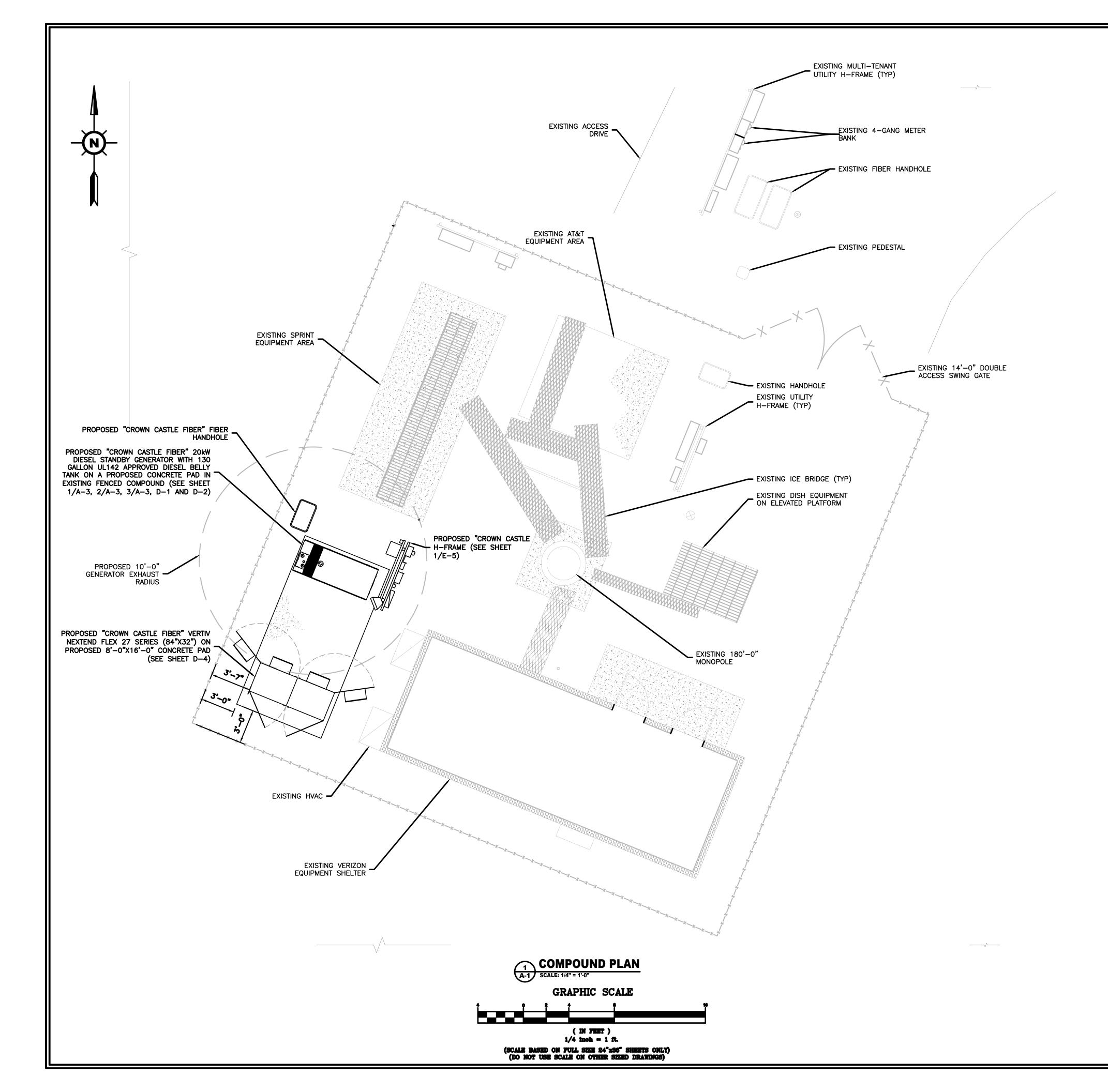
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 3 OF 29





SITE INFORMATION

SITE NAME: CANTERBURY / LEMIRE

CROWN BUSINESS UNIT:

53 WESTMINSTER ROAD CANTERBURY, CT 06631 SITE ADDRESS:

PARCEL ID:

JURISDICTION: TOWN OF CANTERBURY N 41° 42' 07.07" (NAD 83) W 71° 58' 50.01" (NAD 83) SITE COORDINATES:

CROWN CASTLE FIBER NETWORKS TENANT:

80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719

LANDLORD'S NAME: CROWN CASTLE

3530 TORINGDON WAY, STE33 CHARLOTTE, NC 28277 GROUND LANDLORD

FEMA FIRM MAP: 0901830016A EFF. 10/16/1984

FLOOD ZONE:

GENERAL NOTES

- 1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- 3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE
- 7. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (THERE IS NO HANDICAP ACCESS REQUIRED).
- 8. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
- 9. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
- 10. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE, NO SIGNS WILL BE POSTED EXCEPT THOSE REQUIRED.
- 11. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS
- 12. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD

THERE WILL BE NO CHANGES TO THE GRADING/EXISTING SITEL ELEVATONS

THE CITY OF ORLANDO'S GUIDELINES FOR EROSION SEDIMENT CONTROL (AKA THE BLUE SHEET) WILL SERVE AS A GUIDE FOR THE IMPLEMENTATION OR EROSION SEDIMENT CONTROL MEASURES.





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> MORRISON HERSHFIELD



Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

	SCH	HEDULE OF REVISIONS
0	05/31/24	ISSUED FOR PERMIT
В	05/31/24	ISSUED FOR CLIENT REVIEW
A	05/02/24	ISSUED FOR CLIENT REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES

CG **DRAWN BY: CHECKED BY:** AC SCALE: NOTED 230307600/876375 JOB NO:

DRAWING TITLE:

COMPOUND PLAN

DRAWING SHEET:

SITE INFORMATION:

SITE NAME:

CANTERBURY / LEMIRE

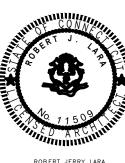
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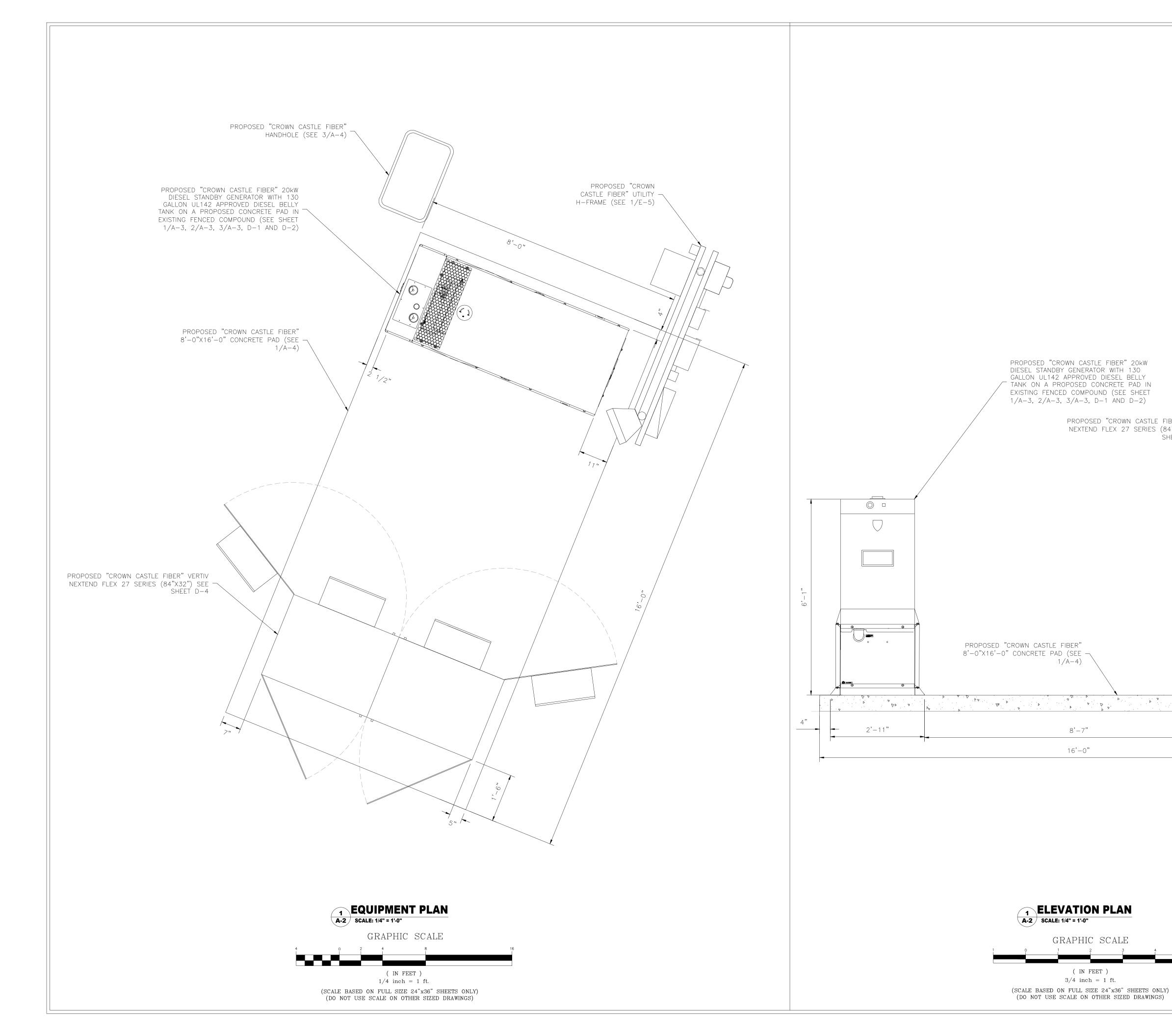
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 4 OF 29







80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 PHONE (978) 264-6000

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SCHEDULE OF REVISIONS		
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В	05/31/24	ISSUED FOR CLIENT REVIEW
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REV. NO.	DATE	DESCRIPTION OF CHANGES
DR	AWN BY:	CG
СН	ECKED B	Y: AC
SC	ALE:	NOTED
JO	B NO:	230307600/876375

EQUIPMENT SHELTER ELEVATION

DRAWING SHEET:

PROPOSED "CROWN CASTLE FIBER" VERTIV NEXTEND FLEX 27 SERIES (84"X32") SEE -

8'-7"

16'-0"

GRAPHIC SCALE

(IN FEET)

3/4 inch = 1 ft.

SHEET 1/D-4

1'-6"



SITE INFORMATION:
SITE NAME: CANTERBURY / LEMIRE

SITE ADDRESS:

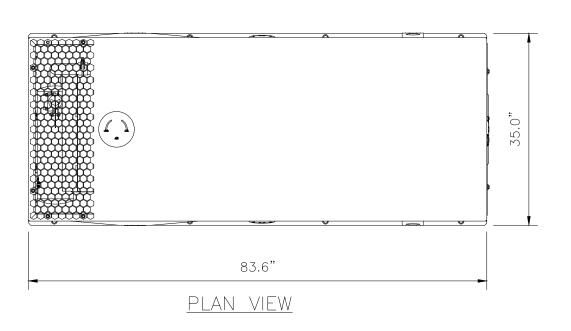
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

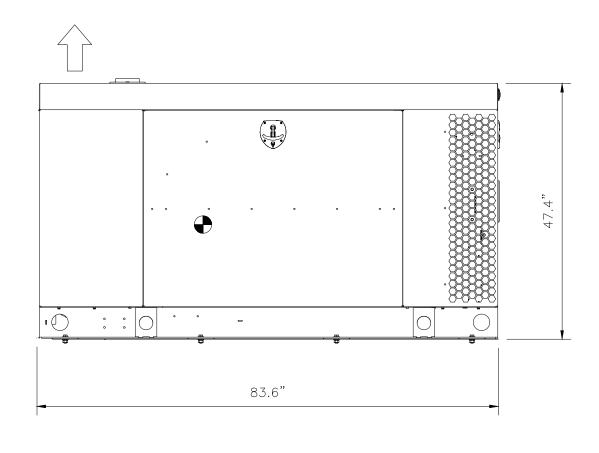
WINDHAM COUNTY

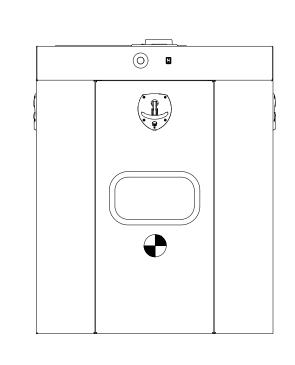
SHEET NO. 5 OF 29





RECOMMENDED ELECTRICAL STUB-UPS (SEE TOP VIEW)		
DESCRIPTION INSIDE BASE		
(1) 3" CONDUIT FROM GENERATOR TO ATS (POWER CABLING)	A	
(3) 1" CONDUIT * CAT5-COMMUNICATION * START WIRE 2W 12 AWG * (2) 20 AMP BATTERY CHARGER AND HEATER BLOCK		

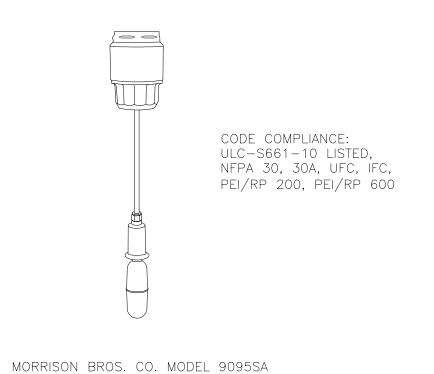




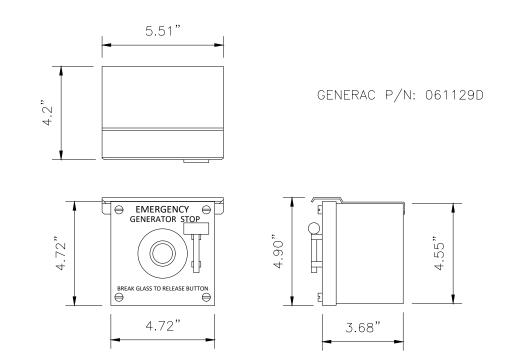
<u>side view</u>

NEW SD020T 20KW OPTIONAL STANDBY GENERATOR

<u>FRONT VIEW</u>

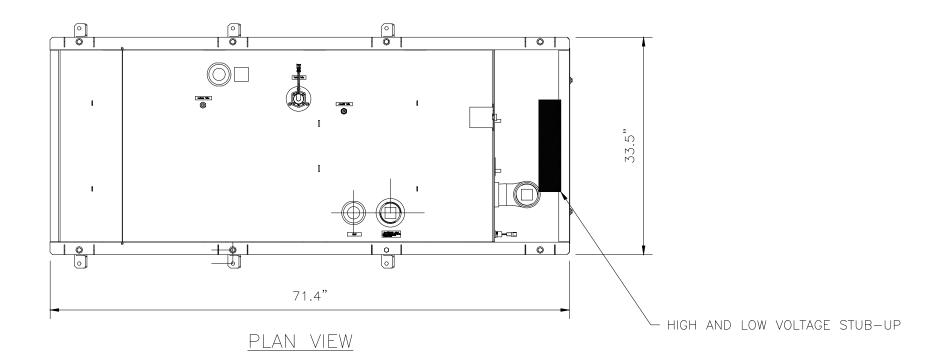


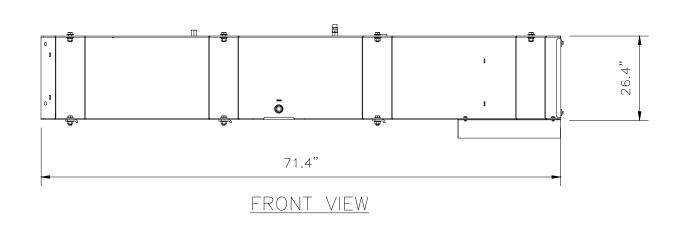


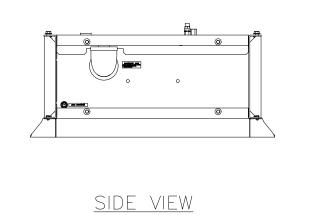


OPTIONAL STANDBY GENERATOR

3 EMERGENCY STOP DETAIL







NEW 130 GALLON BELLY TANK DETAIL A-3 NTS

INSTALLATION NOTES FOR POST-INSTALLED ANCHORS:

- CENTER OF ANCHORS TO HAVE A MINIMUM OF 12" DISTANCE TO CONCRETE EDGES/SEAMS AND OTHERS EXISTING OR ABANDONED ANCHORS.
- 2. CONTRACTOR SHALL FIELD VERIFY CONCRETE THICKNESS PER TABLE BELOW.
- 3. CONTRACTOR SHALL SCAN FOR AND LOCATE EXISTING REBAR BEFORE DRILLING. DO NOT CUT OR DAMAGE FOUNDATION REBAR. IF REBAR IS ENCOUNTERED DURING DRILLING OPERATIONS, NOTIFY EOR IMMEDIATELY. MINOR ADJUSTMENT TO ANCHOR LOCATION MAY BE REQUIRED.
- 4. CONTRACTOR SHALL USE EQUIPMENT MANUFACTURER'S BOLTING LAYOUT AND SPECIFICATIONS. SPECIAL INSPECTIONS REQUIRED DURING INSTALLATION OF ANCHORS.
- 5. MANUAL CLEANING OF THE DRILLED HOLE IS REQUIRED ACCORDING TO ANCHOR MANUFACTURER INSTRUCTIONS AND ICC-ES EVALUATION REPORT NO. ESR-1917.
- 6. ABANDONED ANCHORS TO BE REMOVED OR CUT FLUSH WITH CONCRETE SURFACE. ANY REMAINING VOIDS SHALL BE FILLED WITH HILT HIT— RE 500 V3 EPOXY (ICC ESR NO.3814).

LTHREAD LANCH	DH F	-
LUNTHREAD	DA	HEF HNOM HO

NOTE: GENERATOR SHALL BE FACTORY FURNISHED WITH

THE DISCONNECTING MEANS AND SHUTDOWN OF PRIME MOVER, PER 2020 NEC, 445.18.

INSTALLATION DETAILS FOR POST-INSTA	LLED ANCHORS
ANCHOR TYPES	HILTI KB-TZ STAINLESS STEEL
LENGTH OF ANCHOR, LANCH (in)	7.000
DIAMETER OF ANCHOR, DA (in)	0.500
MINIMUM THICKNESS OF FASTENED STEEL MATERIAL, TMIN (in)	0.25*
MINIMUM EFFECTIVE EMBEDMENT, HEF (in)	3.250
MINIMUM NOMINAL EMBEDMENT, HNOM (in)	3.625
MINIMUM DRILL HOLE DEPTH, HO (in)	4.000**
MINIMUM CONCRETE SLAB THICKNESS, TCONC (in)	8.00*
REQUIRED INSTALLATION TORQUE	40 FT-LB

*NOTIFY EOR IF MATERIAL THICKNESS DOES NOT MEET MINIMUM VALUES SPECIFIED.

**HAMMER DRILL HOLE IN CONCRETE BASE MATERIAL AND CLEAN HOLE PER
MANUFACTURER'S SPECIFICATIONS





80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 PHONE (978) 264-6000





66 Perimeter Center East, Suite 600 Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

	SC	HEDULE OF REVISIONS
0	05/31/24	ISSUED FOR PERMIT
В	05/31/24	ISSUED FOR CLIENT REVIEW
A	05/02/24	ISSUED FOR CLIENT REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES
DR	AWN BY:	CG
СН	ECKED B	Y: AC
SC	ALE:	NOTED
	B NO:	230307600/876375

STANDBY GENERATOR DETAILS

DRAWING SHEET:



SITE INFORMATION:
SITE NAME:
CANTERBURY / LEMIRE

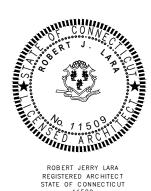
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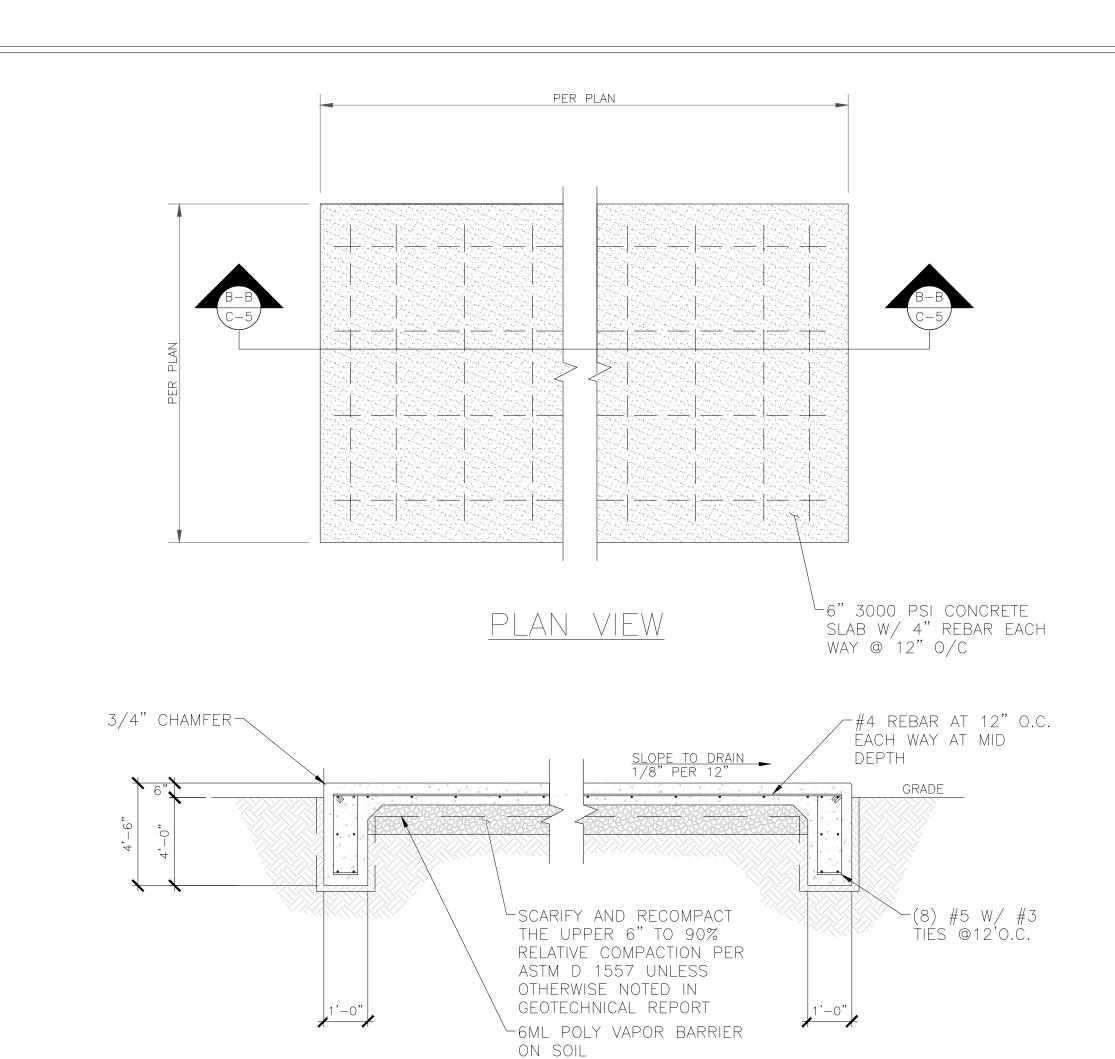
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

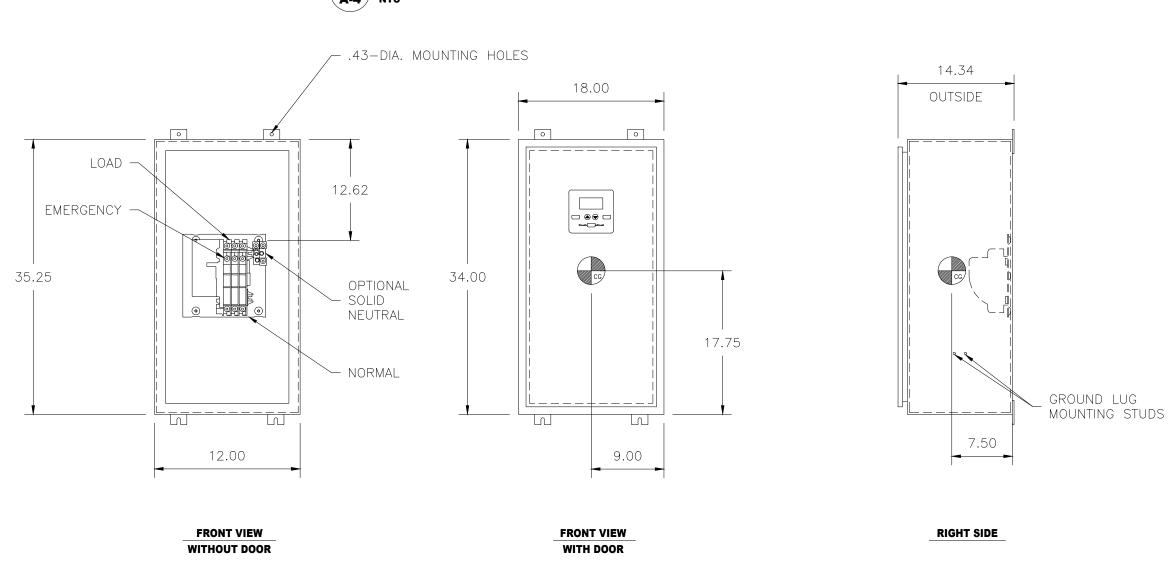
SHEET NO. 7 **OF** 29

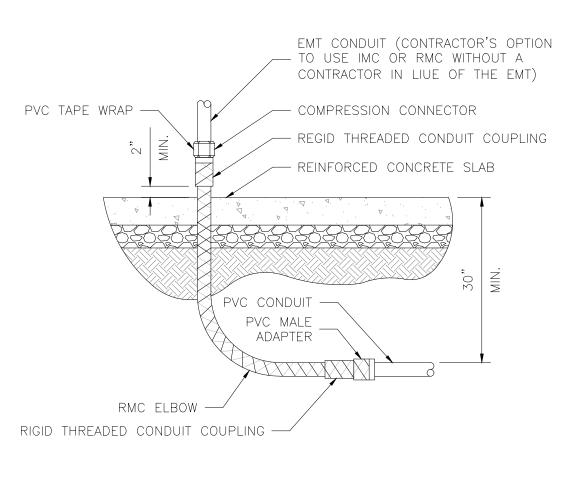




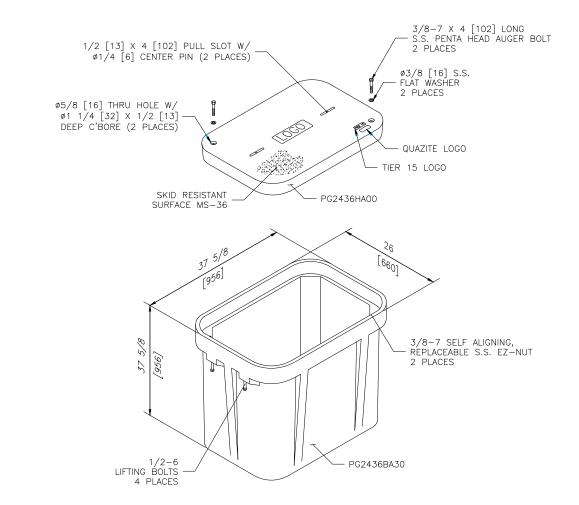
SECTION B-B

PROPOSED ASCO 300 SERIES 200A ATS









3 HAND HOLE DETAIL #1
A-4 NTS



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GENERAL DETAILS

DRAWING SHEET:



SITE INFORMATION:
SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 8 OF 29



GENERAL ELECTRICAL NOTES & BASIC ELECTRICAL REQUIREMENTS

- 1. THE DRAWINGS ARE PROVIDED TO DEPICT DESIGN INTENT AND ARE NOT TO BE CONSIDERED INSTALLATION DRAWINGS. NOT ALL COMPONENTS OR CONNECTIONS ARE SHOWN. EQUIPMENT PART NUMBERS ARE SHOWN TO PROVIDE PERFORMANCE CRITERIA AND LEVEL OF PRODUCT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING, INSTALLATION OF ALL ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION MEANS AND METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, ENERGIZING AND TESTING OF ALL ELECTRICAL COMPONENTS PER THE MANUFACTURER'S INSTRUCTIONS.
- 2. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ADVANTAGE ENGINEERS PROJECT MANAGER OR CONSTRUCTION MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- 3. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION, TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE DESIGN PROFESSIONAL LISTING ANY AND ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 4. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY UNFORESEEN SITE CONDITIONS THAT MAY IMPACT THE DESIGN.
- THE CONTRACTOR IS IN NO WAY PERMITTED TO MODIFY OR CHANGE THE DESIGN WITHOUT THE EXPRESS, WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. SHOULD THE CONTRACTOR MAKE MODIFICATIONS TO THE DESIGN WITHOUT THE CONSENT OF THE DESIGN PROFESSIONAL,
- THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR SUCH CHANGES.

 7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES, THE AUTHORITY HAVING JURISDICTIONS OR OTHER PUBLIC AUTHORITIES.
- 8. ALL ELECTRICAL WORK SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF THE
- NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.

 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR LOCAL MUNICIPAL AUTHORITIES
- 10. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AS INDICATED IN THE CONSTRUCTION DOCUMENTS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF THE WORK SITE AND
- REMOVING ALL TRASH AND DEBRIS ON A DAILY BASIS.

 13. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS,
 EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE
- INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES,
- BACKFILLING, AND REMOVAL OF EXCESS DIRT.

 15. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES (U.L.) AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION AND SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NFPA, IBC, IMC, IECC,
- 16. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE

IEC, NEC, IEEE, ASTM, NEMA, U.L. AND NBFU.

- APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH—IN.

 17. THE CONDUIT RUNS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
- 18. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED; 22,000 AIC MINIMUM FOR MAINS AND 10,000 AIC MINIMUM FOR BRANCH DEVICES. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.
- 19. ALL NEW INSTALLED ELECTRICAL EQUIPMENT SHALL BE FURNISHED WITH ARC FLASH HAZARD LABELS AS REQUIRED BY THE NEC.
- 20. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, POWER PROTECTION CABINET (PPC), AUTOMATIC TRANSFER SWITCH (ATS), MANUAL TRANSFER SWITCH (MTS), POWER TRANSFER LOAD CENTER (PTLC), ETC., SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. LABELS SHALL INDICATE EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
- 21. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, INCLUDING MANUFACTURER'S AND PART NUMBERS FOR PANELBOARDS, TRANSFORMERS, POWER PROTECTION CABINETS (PPC) AND DISCONNECTS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL AT THE COMPLETION OF THE PROJECT.
- 22. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE DEBRIS, CRATING AND CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.
- 23. THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER FIVE (5) BUSINESS DAYS PRIOR TO ANY PLANNED POWER OR OTHER SERVICE OUTAGE. THE OWNER SHALL RESERVE THE RIGHT TO REFUSE SUCH OUTAGE AND HAVE IT RESCHEDULED.
- 24. ANY CODE VIOLATIONS DUE TO THE CONTRACTOR'S WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT CONDUIT

- 1. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND WHERE INDICATED ON THE DRAWINGS, FOR UNDERGROUND RUNS. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITER'S LABORATORIES. FITTINGS SHALL BE THREADED SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTED.
- 2. UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE SCHEDULE 40 (PVC). SCHEDULE 40 PVC SHALL NOT BE PERMITTED ABOVE GRADE. WHERE CONDUIT PASSES UNDER A ROAD OR DRIVE, IT SHALL BE SCHEDULE 80 PVC. SUITABLE FOR DIRECT BURIAL. JOINTS SHALL BE BELLED, AND FLUSH, SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 3. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED INTERIOR SPACES, CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO—GALVANIZED OR HOT—DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW—C—563, AND SHALL BE U.L. LISTED. FITTING SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS ARE NOT
- PERMITTED.

 4. LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS ARE NOT PERMITTED. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED SIX (6) FEET, EXCEPT WHERE PERMITTED BY THE NEC. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRED BY THE NEC.
- 5. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH.
- 6. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY THE NEC.
 7. PROVIDE VERTICAL CABLE SUPPORTS IN ALL VERTICAL CONDUITS WHERE SHOWN OR
- REQUIRED BY THE NEC.

 8. PROVIDE EXPANSION FITTINGS IN CONDUIT WHERE SHOWN OR REQUIRED BY THE NEC.

 9. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12 INCH MINIMUM INSIDE
- SWEEPS FOR ALL CONDUITS 2 INCH OR LARGER.

 10. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL BOXES, CONDUIT BODIES AND BOXES. CONTRACTOR SHALL FURNISH AND INSTALL ANY/ALL JUNCTION BOXES SIZED IN ACCORDANCE WITH
- THE NEC REQUIREMENTS AS REQUIRED FOR THE INSTALLATION.

 11. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING
- GROUND BUSHINGS.

 12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING
- 13. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
- 14. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATELY SIZED MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES.
- CONDUIT SHALL BE FREE OF DIRT AND DEBRIS. 15. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT
- EACH END.

 16. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND
- 16. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUN CONDUIT AND CONDUCTORS, OR AS INDICATED ON THE DRAWINGS.
- 17. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO ENSURE AGAINST
- COLLECTION OF TRAPPED CONDENSATION.

 18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION (WALLS AND FLOORS) SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL, FLOOR OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE U.L. APPROVED FOR THIS PURPOSE.
- 19. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE ARE NOT PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO THE STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
- 20. SPARE CONDUITS SHALL BE FURNISHED WITH PULL LINES AND CAPPED WITH FACTORY CAPS.
- 21. LABEL ALL CROWN CASTLE CONDUITS EVERY 20' THROUGH THE BUILDING AND ON THE ROOF, "CROWN CASTLE" USING STENCILS AND SPRAY PAINT.

CONDUCTORS

- 1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, OR TYPE XHHW, 600V OR XHHW-2, 600V. SIZE AS INDICATED. #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR.
- 2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
- 3. SOLDERLESS, COMPRESSION—TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.

 4. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR AT ALL PUBL.
- 4. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS.
- CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND AISG RET CABLES. CABLE STRAIN-RELIEF & CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. ZIP TIES OR VELCRO STRAPS ARE NOT PERMITTED.

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT, CONTINUED DISCONNECT SWITCHES

- 1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, FUSIBLE, DEAD FRONT, QUICK—MAKE, QUICK—BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION,
- VOLTAGE, AMPERAGE AND NEMA RATING AS INDICATED.

 2. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.
- 3. PROVIDE A WHITE PHENOLIC SIGN WITH 3/4" RED ENGRAVED LETTERING LABELING EACH SERVICE DISCONNECT AS "SERVICE DISCONNECT". IF SOURCE IS HOUSE POWER, INCLUDE LOCATION AND LABEL OF PANEL FEEDING EQUIPMENT. HVAC DISCONNECTS SHALL BE LABELED "HVAC DISCONNECT" AND
- INCLUDE PANEL AND CIRCUIT NUMBER OF CIRCUIT SERVING THE HVAC EQUIPMENT.

 4. ALL FUSIBLE DISCONNECTS SHALL BE FURNISHED WITH CLASS RK-1 FUSES, SIZED AS INDICATED.

PANELBOARDS

- 1. RATED FOR USE AT 120/240V, SINGLE PHASE, THREE WIRE PLUS GROUND, OR 120/208V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, THREE PHASE, FOUR WIRE PLUS GROUND AS REQUIRED FOR THE INTENDED APPLICATION OR AS INDICATED ON THE DRAWINGS.
- 2. ALUMINUM OR COPPER BUS, RATED FOR 200 AMPERES OR AS INDICATED ON THE DRAWINGS, AND HAVE A SHORT CIRCUIT WITHSTAND RATING OF 22,000 AIC MINIMUM.
- 3. MAIN CIRCUIT BREAKER SHALL BE 200 AMPERES OR AS INDICATED ON THE DRAWINGS AND HAVE A SHORT CIRCUIT RATING OF 22,000 AIC MINIMUM. THE MAIN BREAKER SHALL NOT BE INSTALLED SO AS TO BACKFEED THE PANEL BUS.
- 4. PANEL SHALL HAVE A NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE DRAWINGS. THE MAIN BREAKER SHALL NOT USE ANY OF THESE SPACES.
- 5. BRANCH CIRCUIT BREAKERS SHALL BE PLUG-IN OR BOLT-ON TYPE.
- 5. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM RATING OF 10,000 AIC. 7. TANDEM BRANCH CIRCUIT BREAKERS ARE NOT PERMITTED.
- 8. PANEL ENCLOSURE SHALL BE NEMA 1 FOR INTERIOR APPLICATIONS OR NEMA 3R FOR EXTERIOR APPLICATIONS OR AS INDICATED ON THE DRAWINGS.
- 9. DO NOT INSTALL PANEL UPSIDE DOWN. 10. WHERE A PANELBOARD IS INSTALLED, AN EXTERNAL SURGE PROTECTION DEVICE MUST ALSO BE
- INSTALLED ADJACENT AND CONNECTED TO THE PANELBOARD.

 11. QUALITY PRODUCT CIRCUIT BREAKERS ARE NOT PERMITTED.
- 11. QUALITY PRODUCT CIRCUIT BREAKERS ARE NOT PERMITTED.
 12. UNUSED BRANCH CIRCUIT SPACES SHALL HAVE PANEL MANUFACTURER'S BLANK SPACE INSERTS
- 13. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN, NOT HANDWRITTEN.
- 14. PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT THE FINAL CIRCUITING.
 15. ALL UNUSED CIRCUIT BREAKERS SHALL BE SWITCHED OFF AND LABELED "SPARE".

EXTERNALLY MOUNTED SURGE PROTECTION DEVICES

- 1. RATED FOR THE INTENDED APPLICATION AND AS INDICATED ON THE DRAWINGS: 120/240V, SINGLE PHASE, OR 120/208V, SINGLE PHASE, OR 120/208V, THREE PHASE, OR 480/277V, SINGLE PHASE OR 480/277V, THREE PHASE.
- 2. RATED FOR 100KA PEAK SURGE CURRENT PER PHASE.
- 3. INDICATOR LEDS FOR NORMAL AND FAULT CONDITION FOR EACH PHASE.
 4. U.L. LISTED 1449
- 5. ENCLOSURE SHALL BE: INTERIOR APPLICATIONS, NEMA 1. EXTERIOR APPLICATIONS: NEMA 3R OR NEMA 4 OR NEMA 4X STAINLESS STEEL.

POWER PROTECTION CABINET (PPC)

- 1. RATED FOR USE AT 120/240V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, THREE PHASE, FOUR WIRE PLUS GROUND AS
- REQUIRED FOR THE INTENDED APPLICATION OR AS INDICATED ON THE DRAWINGS.

 2. ALUMINUM OR COPPER BUS, RATED FOR 200 AMPERES OR AS INDICATED ON THE DRAWINGS, AND HAVE A SHORT CIRCUIT WITHSTAND RATING OF 22,000 AIC MINIMUM.
- 3. TWO (2) MAIN CIRCUIT BREAKERS, MECHANICALLY INTERLOCKED, THAT ACT AS A MANUAL TRANSFER SWITCH, BREAK BEFORE MAKE. ALLOW FOR A NORMAL AND PORTABLE GENERATOR STANDBY FEEDS. MAIN BREAKERS SHALL BE 200 AMPERES AND HAVE A SHORT CIRCUIT RATING OF 22,000 AIC MINIMUM. CONTRACTOR SHALL ENSURE THAT THE MECHANICAL INTERLOCK HAS BEEN INSTALLED.
- 4. INTERNAL PANEL SHALL HAVE A MINIMUM OF TWENTY FOUR (24) BRANCH CIRCUITS AVAILABLE.
- 5. BRANCH CIRCUIT BREAKERS SHALL BE PLUG-IN OR BOLT-ON.
 6. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM RATING OF 10,000 AIC.
- 7. TANDEM BRANCH CIRCUIT BREAKERS ARE NOT PERMITTED.
- 8. CLASSIFIED PRODUCT CIRCUIT BREAKERS ARE NOT PERMITTED.9. FURNISHED WITH INTERNAL, FACTORY INSTALLED, INTEGRATED SURGE SUPPRESSION.
- 10. FURNISHED WITH STANDBY GENERATOR INLET (RECEPTACLE), REVERSE SERVICE RATED. VOLTAGE AND AMPERAGE AS INDICATED ON THE DRAWINGS. GENERATOR RECEPTACLE SHALL BE FACTORY INSTALLED ON SIDE OF PPC UNLESS SHOWN AS REMOTE MOUNTED ON THE DRAWINGS.
- 11. UNUSED BRANCH CIRCUIT BREAKERS SHALL HAVE PANEL MANUFACTURER'S BLANK SPACE INSERTS INSTALLED.
- 12. ENCLOSURE SHALL BE NEMA 1 FOR INTERIOR APPLICATIONS OR NEMA 3R FOR EXTERIOR APPLICATIONS OR AS INDICATED ON THE DRAWINGS.
- 13. IF AN EXISTING PPC IS MISSING THE MECHANICAL INTERLOCK, THE CONTRACTOR SHALL FURNISH AND
- INSTALL THE CORRECT FACTORY MECHANICAL INTERLOCK ON THE TWO (2) MAIN CIRCUIT BREAKERS.

 14. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN, NOT HANDWRITTEN.
- 15. PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT THE FINAL CIRCUITING.
- 16. ALL UNUSED CIRCUIT BREAKERS SHALL BE SWITCHED OFF AND LABELED "SPARE".

EXTERIOR COMBINATION GFCI/SWITCH UNIT

- 1. WEATHERPROOF ENCLOSURE WHICH INCLUDES A 120V, 20A GFCI RECEPTACLE AND A 120V, 20A TOGGLE SWITCH.
- 2. "IN-USE" COVER, CORROSION RESISTANT, GALVANIZED STEEL ENCLOSURE.
 3. GFCI RECEPTACLE AND LIGHT SWITCH SHALL BE WIRED ON SEPARATE CIRCUITS, UNLESS OTHERWISE
- NOTED ON THE DRAWINGS.

 4. G.E. # U010S010GRP OR APPROVED EQUAL.

<u>VERTICAL CABLE SUPPORTS</u>

- 1. INSTALL IN ACCORDANCE WITH NEC 300.19
- FOR USE WITH THREADED OR NON—THREADED CONDUIT
 MALLEABLE OR DUCTILE IRON WITH HOT DIP GALVANIZED FINISH
- 4. WEDGING PLUG
- 5. O/Z GEDNEY TYPE "S", TYPE "R" OR EQUAL

LED LIGHT FIXTURE

- 1. ALUMINUM HOUSING, TWO ADJUSTABLE AIMABLE HEADS, LED LAMPS
- INTEGRAL MOTION SENSOR AND PHOTOCELL
 FIELD SETTABLE TIME FOR ON
- 4. 120V, BRONZE OR BLACK FINISH
- 5. LITHONIA #OFLR6LC120MOBZ OR RAB #SMSBULLET2X12NA OR EQUAL



80 CENTRAL STREET
BOXBOROUGH, MASSACHUSETTS 01719
PHONE (978) 264-6000





Tel:770-379-8500 Fax:770-375-8501

SCHEDULE OF REVISIONS

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DRAWING SHEET:



SITE INFORMATION:
SITE NAME:
CANTERBURY / LEMIRE

SITE ADDRESS:

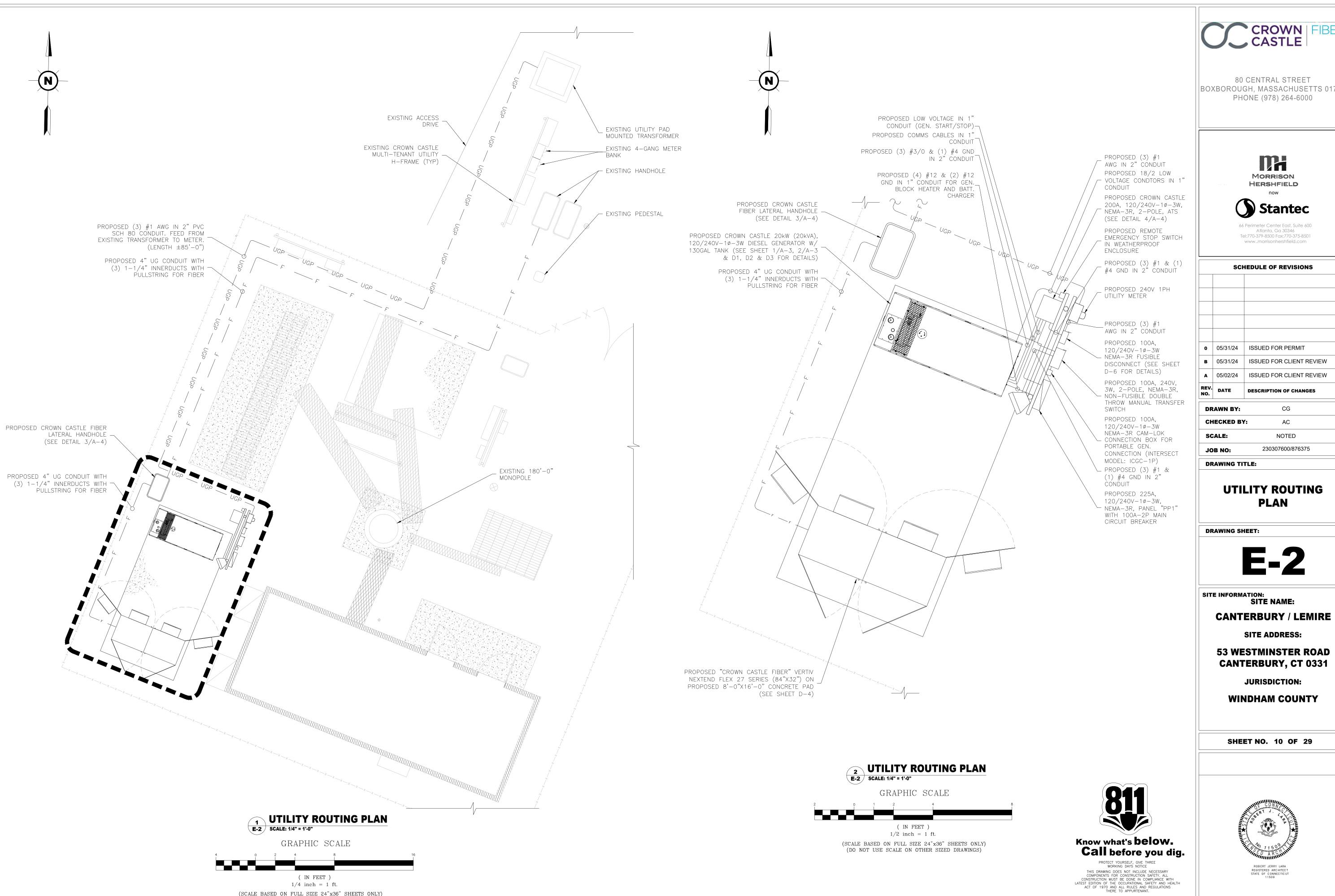
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 9 OF 29





1/4 inch = 1 ft. (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY) (DO NOT USE SCALE ON OTHER SIZED DRAWINGS)

CROWN | FIBER CASTLE

80 CENTRAL STREET BOXBOROUGH, MASSACHUSETTS 01719 PHONE (978) 264-6000

> M MORRISON HERSHFIELD



66 Perimeter Center East, Suite 600 Atlanta, Ga 30346 Tel:770-379-8500 Fax:770-375-8501 www..morrisonhershfield.com

SCHEDULE OF REVISIONS

0 05/31/24 ISSUED FOR PERMIT B 05/31/24 ISSUED FOR CLIENT REVIEW A 05/02/24 ISSUED FOR CLIENT REVIEW REV. DATE DESCRIPTION OF CHANGES **DRAWN BY:** CG **CHECKED BY:** AC

230307600/876375 JOB NO:

> **UTILITY ROUTING PLAN**

NOTED

DRAWING SHEET:

SITE INFORMATION: SITE NAME:

SITE ADDRESS:

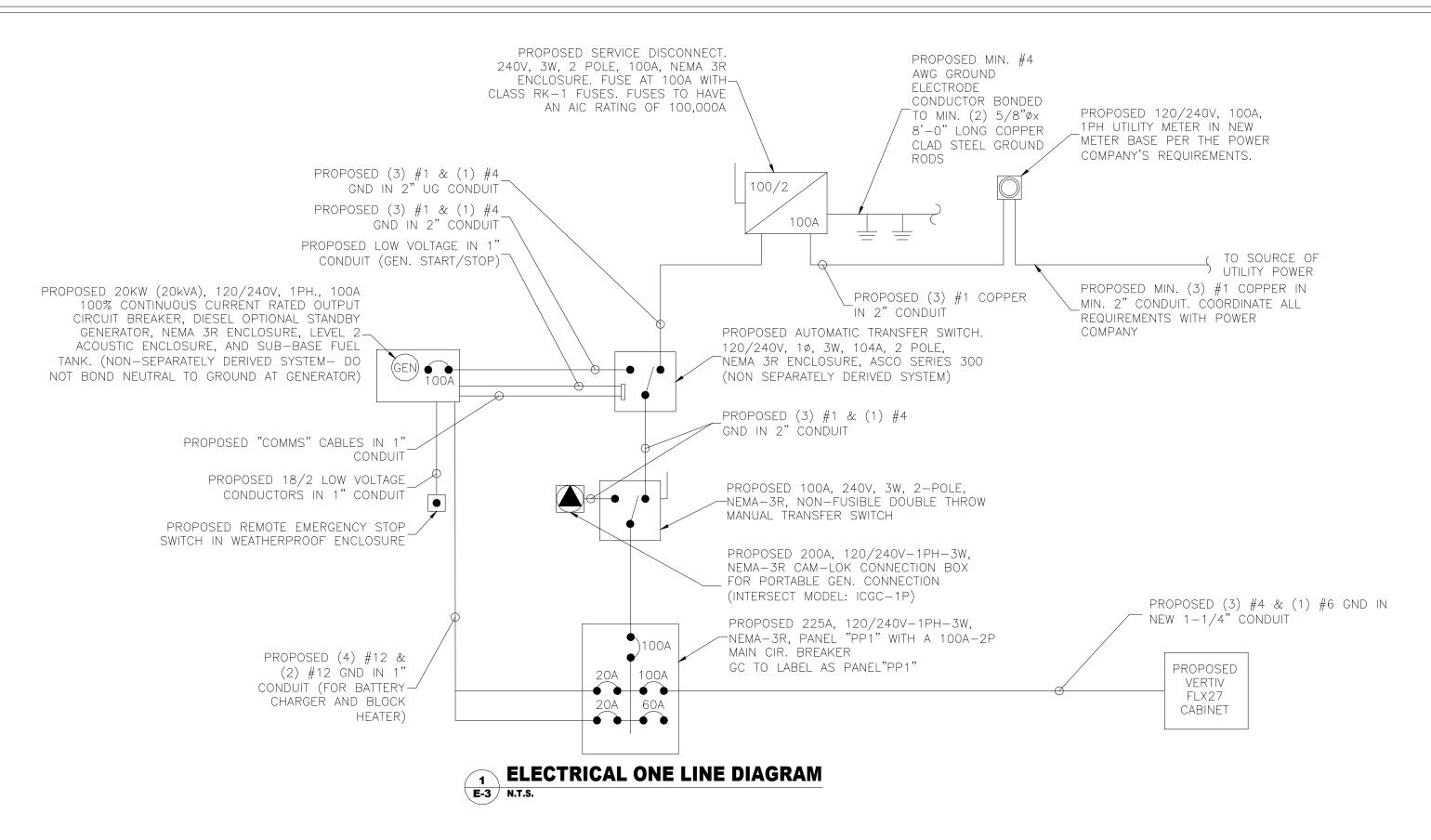
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 10 OF 29





BUS	VA	LOAD	\\\\	ONE	00110			BUS		1100	00110	OND	\\/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1000	BUS	S VA
А	В	LOAD	WIRE	GND	COND	AMPS		A B		MPS	COND	GND	WIRE	LOAD	А	В
5760		VERTIV FLEX 27 CABINET	#4	#6	1-1/4"	60	1	-	2	_	_	_	_	SPACE	_	
	5760						3		4	-	_	_	_	SPACE		_
1200		GENERATOR BATTERY CHARGER	#12	#12	1"*	20	5	•	6	20	3/4"	#12	#12	LIGHTS **	283	
	1500	GENERATOR BLOCK HEATER	#12	_	1"*	20	7		8	20	3/4"	#12	#12	RECEPTACLE GFCI		18
_		SPACE	_	_	_	_	9	1	0	_	_	_	_	SPACE	_	
	_	SPACE	_	_	_	_	11	1	2	_	_	_	_	SPACE		_
_		SPARE	_	_	_	30	13	1	4	30	_	_	_	SPARE	_	
	_						15	1	6							_
_		SPARE	_	_	_	30	17	1	8	30	_	_	_	SPARE	_	
	_						19		20							_
_		SPARE	_	_	_	30	21	<u>+</u> 2	22	30	_	_	_	SPARE	_	
							23	- 2	24							_
_		SPACE	<u> </u>	_	_	_	25	— 2	26	_		_	_	SPACE	_	
	_	SPACE	† <u> </u>	_	_	_	27	2	28	_		_	_	SPACE		_
_		SPACE	† <u> </u>	_	_	_	29	— 3	30	_	_	_	_	SPACE	_	
	_	SPACE	 	_	_	_	31	3	32	_		_	_	SPACE		
_		SPARE	_	_	_	20	33	3	34	_	_	_	_	SPACE	_	
		SPARE	<u> </u>	_	_	20	35	3	6	_	_	_	_	SPACE		_
_			_	_	_		37	3	88	_	_	_			_	
			+	_	_		+			60	_	_				
_			+		_		-								_	
_	BUS A	SPARE SPACE SPACE 7243 BUS B 7440 CONNECTED □ 120/208 ■ 120/240 □ 277/48	- - -	- - 683		20 –	37 39 41		H0 H2 BUS	60 A 60) B	— us в 6	_ _ _ 2	SPACE SPARE TOTAL 61 □ 24 □ 30 □ 36 ■ 42		
RATED AMP:] 100 ■ 225 □ 400	CABIN		SURF			FLUSH								
JLL NEUTR					KEYED DO				1 051	JRF TY	pf NF	=MA-3	 8R			
OLL INLOTT	VICES	☐ FUSED ■ CIRCUIT BREAKER	2001		NETED D	J J N L/N I	011			∠ı\∟ II	, L 111		/ I \			

* = CONDUCTORS ARE RUN INSIDE SAME CONDUIT

<u>DEMAND LOAD CALC</u>

LIGHTING @ 125% (CONTINUOUS LOAD) -283 VA @ 125% =354VA REC. 1ST 10 KVA@ 100% -MISC @ 100% -

180 VA @ 100% = 180VA 14220 VA @ 100% =14220VA

TOTAL = 22454 VA (94 AMPS)

ELECTRICAL & GROUND SYMBOLS:

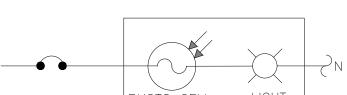
GROUND ROD WITH ACCESS 5/8"x10'-0" COPPERCLAD GROUND ROD DISCONNECT SWITCH METER CIRCUIT BREAKER (GEN) GENERATOR CADWELD TYPE CONNECTION (EXOTHERMIC WELD) MECHANICAL TYPE CONNECTION ----- GROUNDING WIRE

ABBREVIATIONS:

— P — P — POWER WIRE

— r — r — r — TELCO WIRE

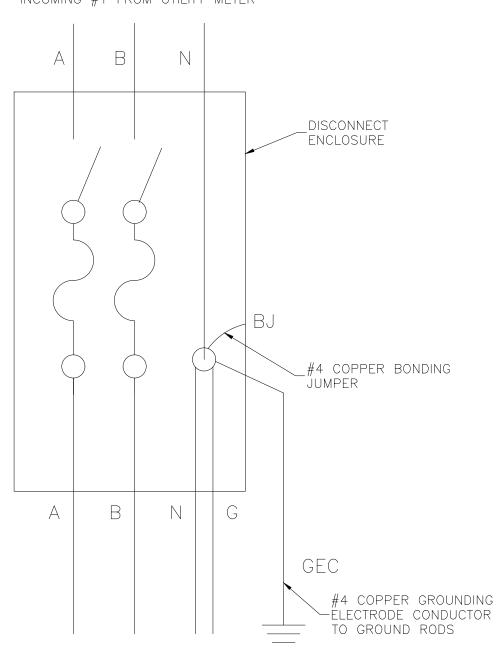
AMERICAN WIRE GAUGE BCTW BARE COPPER TINNED WIRE GLOBAL POSITIONING SYSTEM PERSONAL COMMUNICATION SYSTEM PPC POWER PROTECTION CABINET PRC PRIMARY RADIO CABINET RWY RACEWAY TYP TYPICAL RIGID GALVANIZED STEEL RGS EMT ELECTRICAL METALLIC TUBING DWG DRAWING IGR INTERIOR GROUND RING (HALO) ACCA ANTENNA CABLE COVER ASSEMBLY MGB MASTER GROUND BAR BTS BASE TRANSMISSION SYSTEM GEN GENERATOR GROWTH SICW STRANDED INSULATED COPPER WIRE



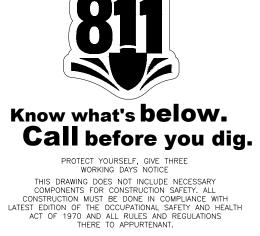
EXTERIOR LIGHT CIRCUIT

INCOMING #1 FROM UTILITY METER

(3) #1 & (1) #4 GND TO ATS



SERVICE DISCONNECT GROUNDING AND BONDING DIAGRAM E-3 N.T.S.





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SCI	HEDULE OF REVISIONS
05/31/24	ISSUED FOR PERMIT
05/31/24	ISSUED FOR CLIENT REVIEW
05/02/24	ISSUED FOR CLIENT REVIEW
DATE	DESCRIPTION OF CHANGES
AWN BY:	CG
ECKED BY	Y: AC
ALE:	NOTED
B NO:	230307600/876375
	05/31/24 05/31/24 05/02/24 DATE AWN BY: ECKED BY

ONE LINE DIAGRAM & PANEL SCHEDULE

DRAWING SHEET:

DRAWING TITLE:



SITE INFORMATION: SITE NAME: CANTERBURY / LEMIRE

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

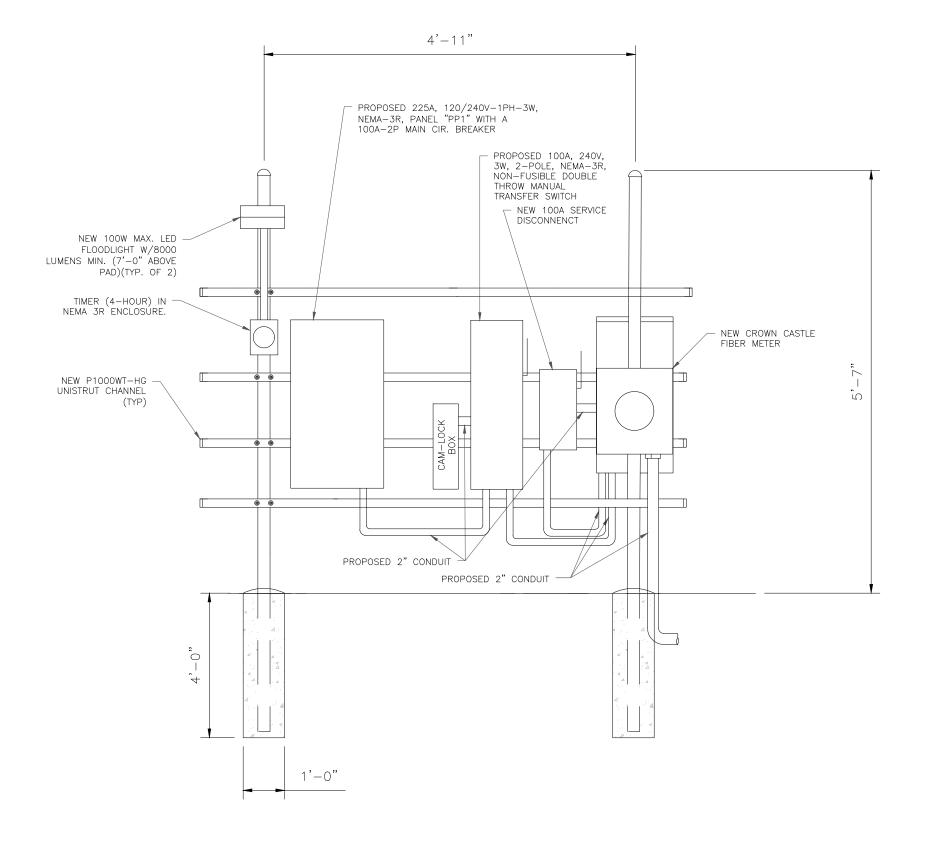
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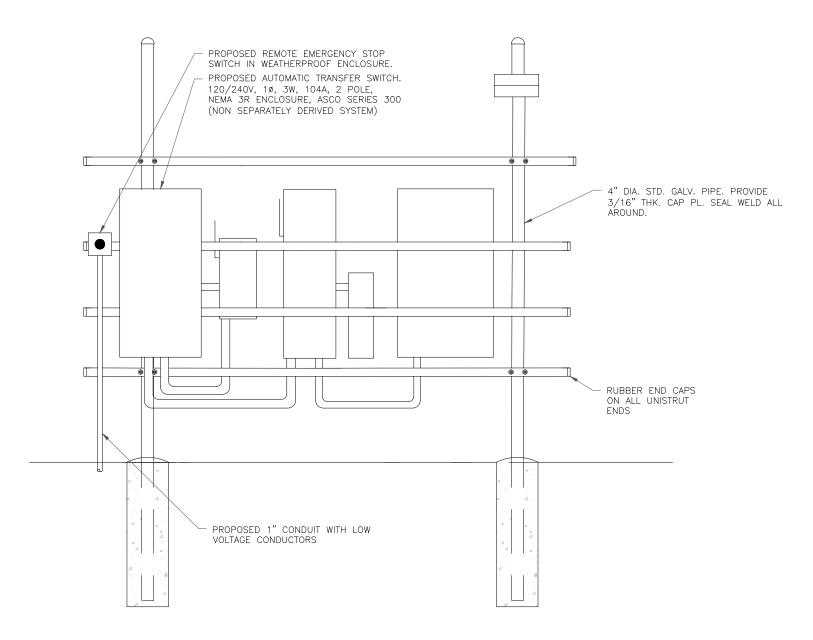
WINDHAM COUNTY

SHEET NO. 11 OF 29



PROPOSED PANEL SCHEDULE





H-FRAME DETAIL

FRONT

BACK





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	SCI	HEDULE OF REVISIONS
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В	05/31/24	ISSUED FOR CLIENT REVIEW
A	05/02/24	ISSUED FOR CLIENT REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES
DR	AWN BY:	CG
СН	ECKED BY	f: AC
sc	ALE:	NOTED
JO		230307600/876375

DRAWING TITLE:

ELECTRICAL FUSED SWITCH DETAIL

DRAWING SHEET:



SITE INFORMATION:
SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

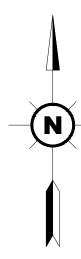
SHEET NO. 12 OF 29



HEAVY DUTY SAFETY SWITCHES VISIBLE BLADE TYPE 200 AMPERE – SERIES F5 ENCLOSURE – NEMA TYPE 3R RAINPROOF SEISMIC SQUARE D

by Schneider Electric

DWG# 3262S



 EXOTHERMIC WELD MECHANICAL CONNECTION

GROUNDING PLAN LEGEND:

GROUNDING NOTES:

- 1. ALL GROUNDING SYSTEM CONDUCTORS AND CONNECTIONS BELOW GRADE SHALL BE THERMAL WELDS AT GROUND RODS AND AT A MINIMUM OF 36" BELOW GRADE.
- 2. ALL INSTALLATIONS SHALL BE FIELD VERIFIED.
- 3. ALL GROUND WIRE SHALL BE #2 AWG BARE COPPER TINNED UNLESS NOTED OTHERWISE.
- 4. ALL GROUND WIRES SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUND WIRES SHALL NOT BE LOOPED OR SHARPLY BENT.
- 5. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF GROUND RODS AND GROUND RING WITH FOUNDATION AND UNDERGROUND
- 6. GENERATOR SHALL BE CONNECTED WITH (2) #2 AWG INSULATED SOLID TINNED COPPER WIRE TO GROUND BAR" OR GROUND RING.
- 7. KOPR-SHIELD ANTI-OXIDATION COMPOUND SHALL BE USED ON ALL GROUNDING CONNECTIONS.
- 8. ALL BOLTED GROUNDING CONNECTIONS SHALL BE INSTALLED WITH A LOCK WASHER UNDER THE NUT. HARDWARE FOR BOLTED CONNECTIONS SHALL BE A MINIMUM OF 3/4" DIAMETER AND SHALL BE STAINLESS STEEL.
- 9. GROUNDING WIRE SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
- 10. PLASTIC CLIPS OR METAL CLIPS WHICH DO NOT COMPLETELY SURROUND THE GROUNDING CONDUCTORS SHALL BE USED TO FASTEN AND SUPPORT GROUNDING CONDUCTORS. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED.

KEY NOTES:

- (P) (2) #2 AWG SBTC CONDUCTORS BONDING GENERATOR TO GROUND RING (EACH AT OPPOSITE CORNERS)
- (P) #2 AWG SBTC CONDUCTORS BONDING EQUIPMENT CABINET TO GROUND RING. EXACT QUANTITY OF BINDS SHALL BE DETERMINED PER MANUF. SPECS.
- (P) #2 AWG SBTC CONDUCTOR BONDING H-FRAME POSTS TO GROUND RING.
- 4 APPROXIMATE LOCATION OF #2AWG SOLID BARE TINNED GROUND GRING. GROUND RING SHALL BE BURIED 30" BELOW THE FROST LINE OR 36" BELOW GRADE, WHICHEVER IS GREATER. EXACT LOCATION AND NUMBER OF GROUND RODS TO BE DETERMINED ON SITE AND BASED ON "FALL OF POTENTIAL GROUND RESISTANCE METHOD" FRO RESISTANCE < 5 OHMS. UNLESS OTHERWISE NOTED, DRIVEN GROUND RODS ARE TO BE BURIED AT 16 FEET INTERVALS.
- (P) #2 AWG SBTC CONDUCTOR BONDING METAL ENCLOSURE OF H-FRAME ELEC. EQUIPMENT TO GROUND RING.



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A	05/02/24	ISSUED FOR CLIENT REVIEW
В	05/31/24	ISSUED FOR CLIENT REVIEW
0	05/31/24	ISSUED FOR PERMIT

DRAWN BY: CG AC **CHECKED BY:** NOTED SCALE: 230307600/876375 JOB NO:

DRAWING TITLE:

EQUIPMENT GROUNDING PLAN

DRAWING SHEET:



SITE INFORMATION:
SITE NAME:

SITE ADDRESS:

CANTERBURY / LEMIRE

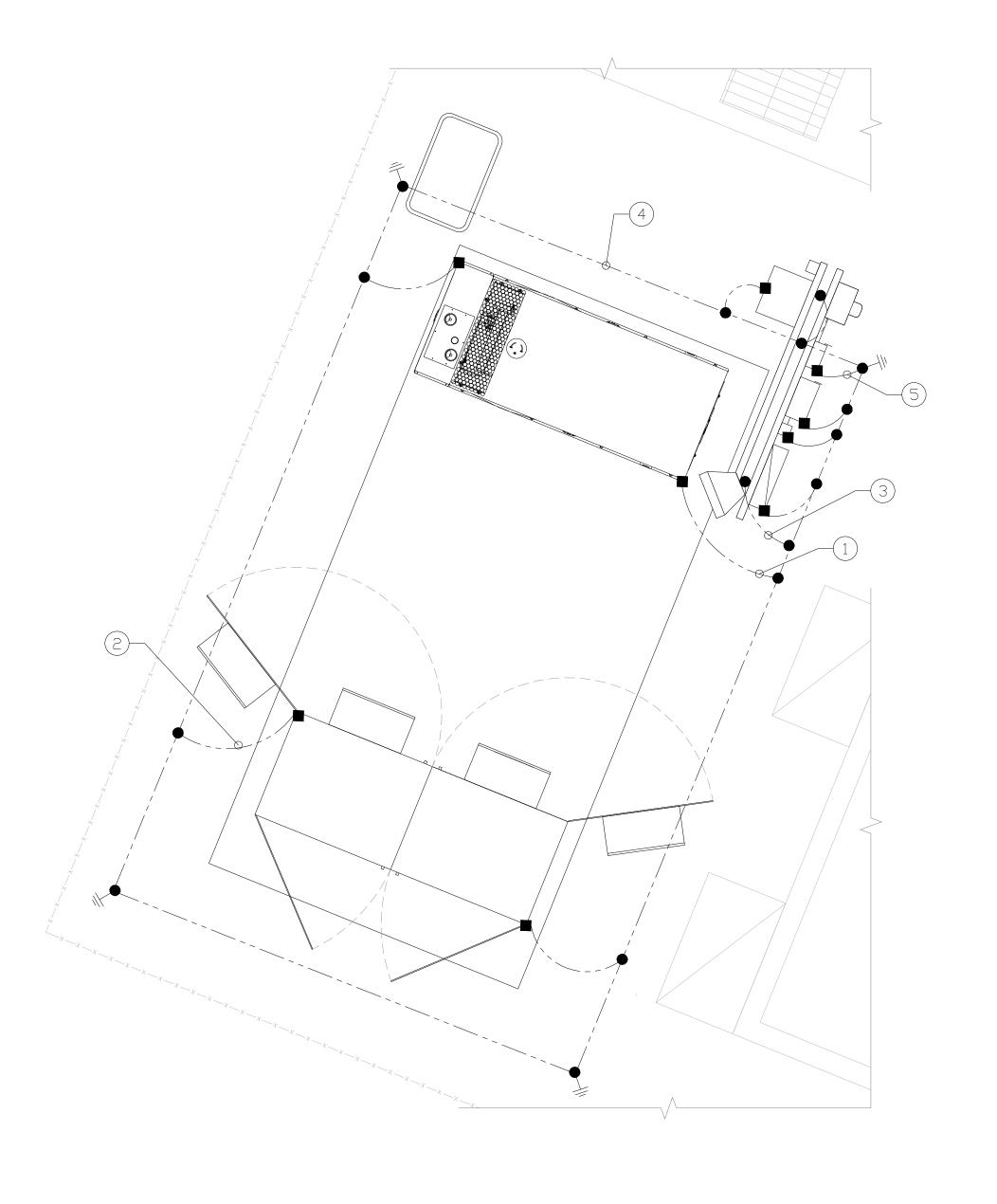
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 13 OF 29

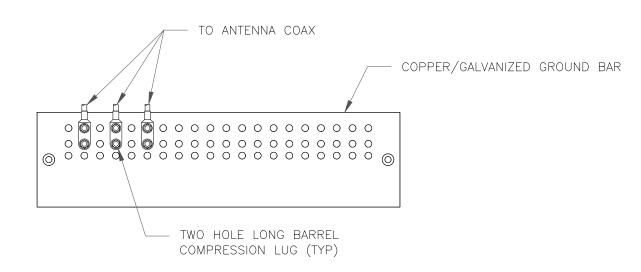




GRAPHIC SCALE

(IN FEET) 1/2 inch = 1 ft. (SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)

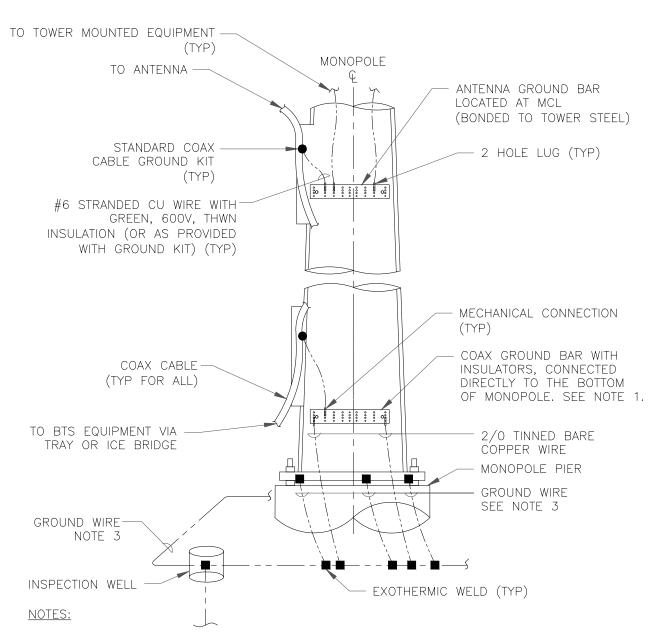
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



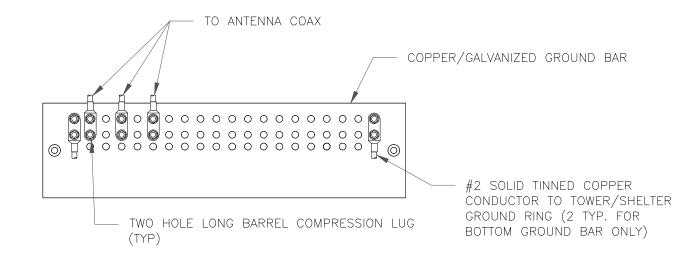
NOTES:

- 1. DOUBLING UP "OR STACKING" OF CONNECTIONS IS NOT PERMITTED.
- 2. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 3. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO ANTENNA MOUNT STEEL.

ANTENNA SECTOR GROUND BAR DETAIL G-2 NTS



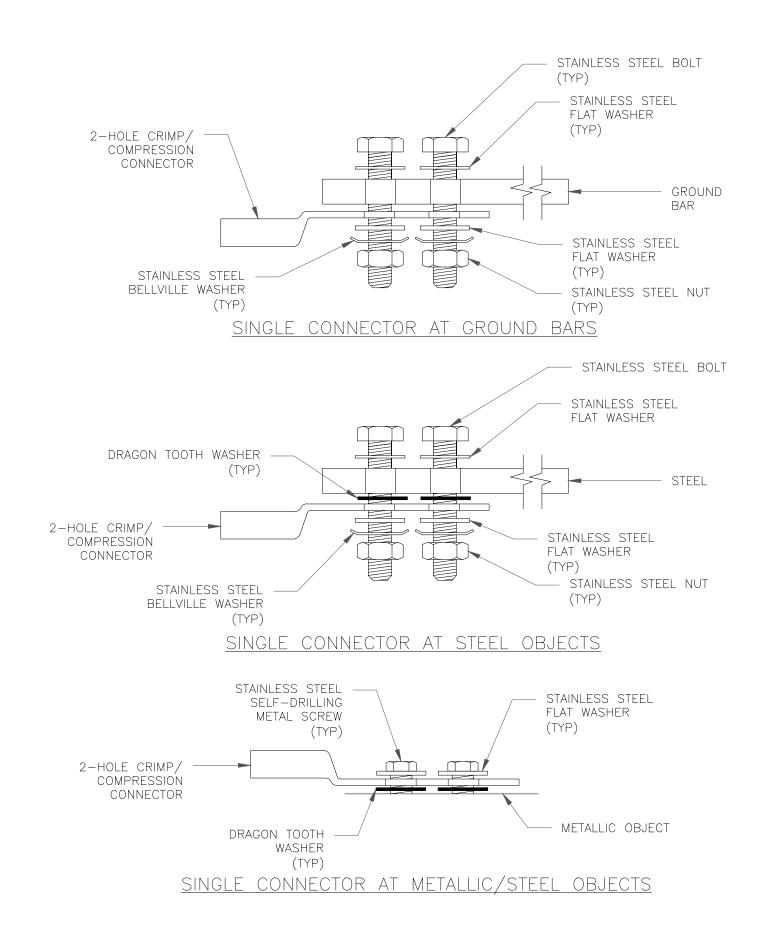
- 1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. COAXIAL CABLES EXCEEDING 200 FEET ON THE TOWER SHALL HAVE GROUND KITS AT THE MIDPOINT. PROVIDE AS REQUIRED.
- 2. ONLY MECHANICAL CONNECTIONS ARE ALLOWED TO BE MADE TO CROWN CASTLE USA INC. TOWERS. ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH AN ANTI-OXIDANT COATING.
- 3. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE RECOGNIZED EDITION OF ANSI/TIA 222 AND NFPA 780.



NOTES:

- 1. EXTERIOR ANTIOXIDANT JOINT COMPOUND TO BE USED ON ALL EXTERIOR CONNECTIONS.
- 2. GROUND BAR SHALL NOT BE ISOLATED FROM TOWER. MOUNT DIRECTLY TO TOWER STEEL (TOWER ONLY).
- 3. GROUND BAR SHALL BE ISOLATED FROM BUILDING OR SHELTER.

TOWER/SHELTER GROUND BAR DETAIL g-2 NTS









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SCALE:	NOTED
JOB NO:	230307600/876375

DRAWING TITLE:

GROUNDING DETAILS

DRAWING SHEET:



SITE INFORMATION:
SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

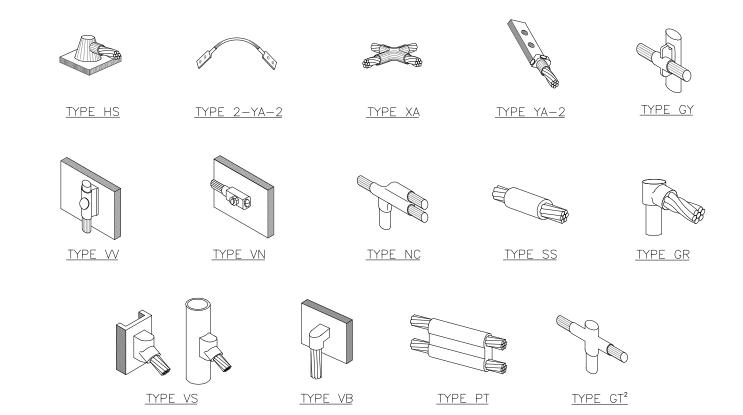
53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 14 OF 29

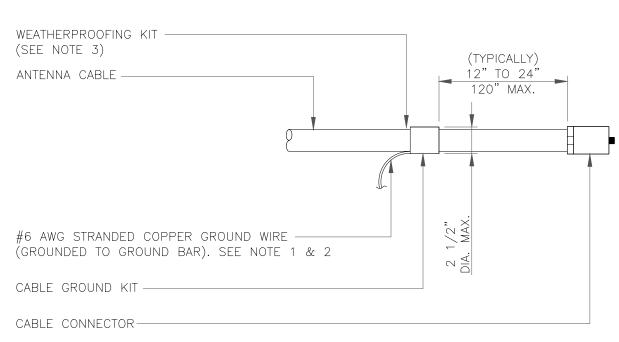




NOTE:

- 1. ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH CONSTRUCTION MANAGER FOR SPECIFIC
- MOLDS TO BE USED FOR THIS PROJECT. 2. MOLD TYPE ONLY TO BE USED BELOW GRADE WHEN CONNECTING GROUND RING TO GROUND ROD.

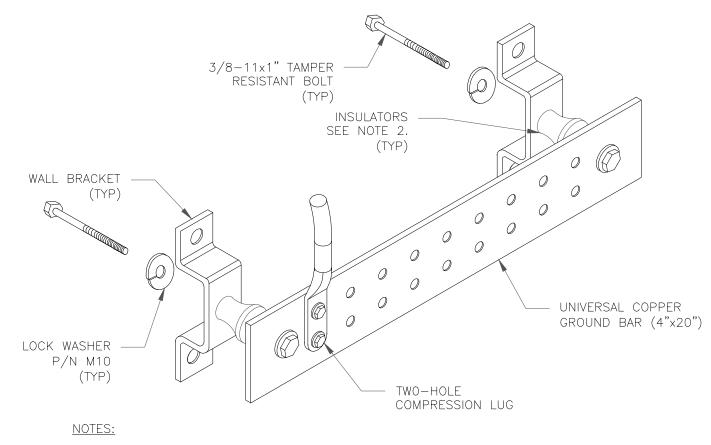
CADWELD GROUNDING CONNECTIONS G-3 NTS



NOTES:

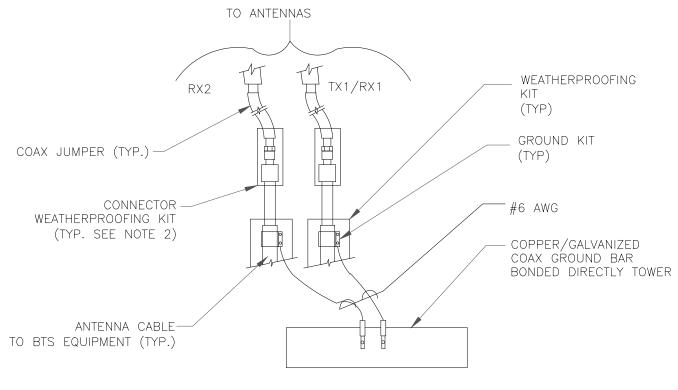
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
- WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.

CABLE GROUND KIT CONNECTION



1. DOWN LEAD (HOME RUN) CONDUCTORS ARE NOT TO BE INSTALLED ON CROWN CASTLE USA INC. TOWER, PER THE GROUNDING DOWN CONDUCTOR POLICY QAS-STD-10091. NO MODIFICATION OR DRILLING TO TOWER STEEL IS ALLOWED IN ANY FORM OR FASHION, CAD-WELDING ON THE TOWER AND/OR IN THE AIR ARE NOT PERMITTED.

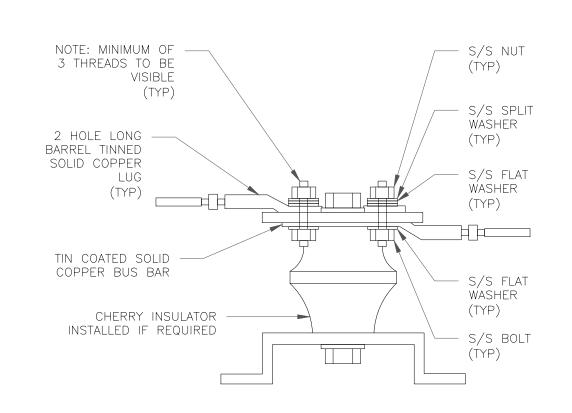
2. OMIT INSULATOR WHEN MOUNTING TO TOWER STEEL OR PLATFORM STEEL USE INSULATORS WHEN ATTACHING TO BUILDING OR SHELTERS.



NOTES:

- 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
- 2. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT. COLD SHRINK SHALL NOT BE

GROUND CABLE CONNECTION G-3 NTS



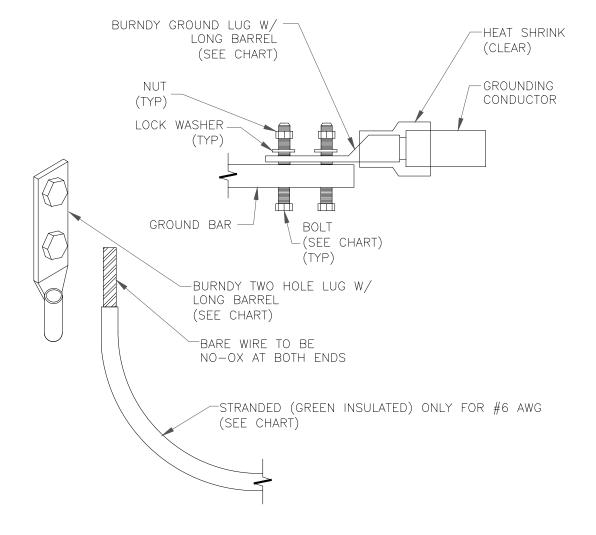


BOLT SIZE WIRE SIZE BURNDY LUG #6 AWG GREEN INSULATED 3/8" - 16 NC S 2 BOLT YA6C-2TC38

#2 AWG SOLID TINNED YA3C-2TC38 3/8" - 16 NC S 2 BOLT 3/8" - 16 NC S 2 BOLT #2 AWG STRANDED YA2C-2TC38 #2/0 AWG STRANDED YA26-2TC38 3/8" - 16 NC S 2 BOLT

#4/0 AWG STRANDED YA28-2N

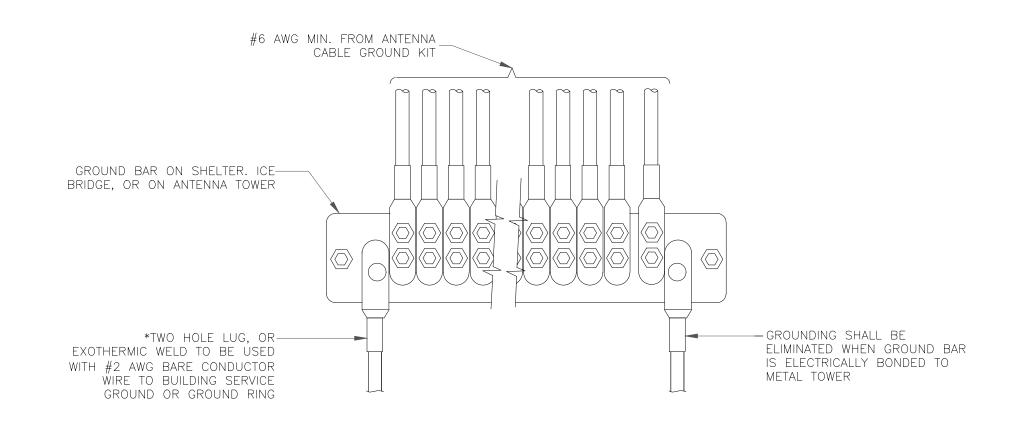
1/2" - 16 NC S 2 BOLT



NOTES:

1. ALL GROUNDING LUGS ARE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. ALL HARDWARE BOLTS, NUTS, LOCK WASHERS SHALL BE STAINLESS STEEL. ALL HARDWARE ARE TO BE AS FOLLOWS: BOLT, FLAT WASHER, GROUND BAR, GROUND LUG, FLAT WASHER AND NUT.

MECHANICAL LUG CONNECTIONS



GROUNDWIRE INSTALLATION To start the start of the start



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CHECKED BY:	AC	
SCALE:	NOTED	
JOB NO:	230307600/876375	

DRAWING TITLE:

GROUNDING DETAILS

DRAWING SHEET:



SITE INFORMATION: SITE NAME: **CANTERBURY / LEMIRE**

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

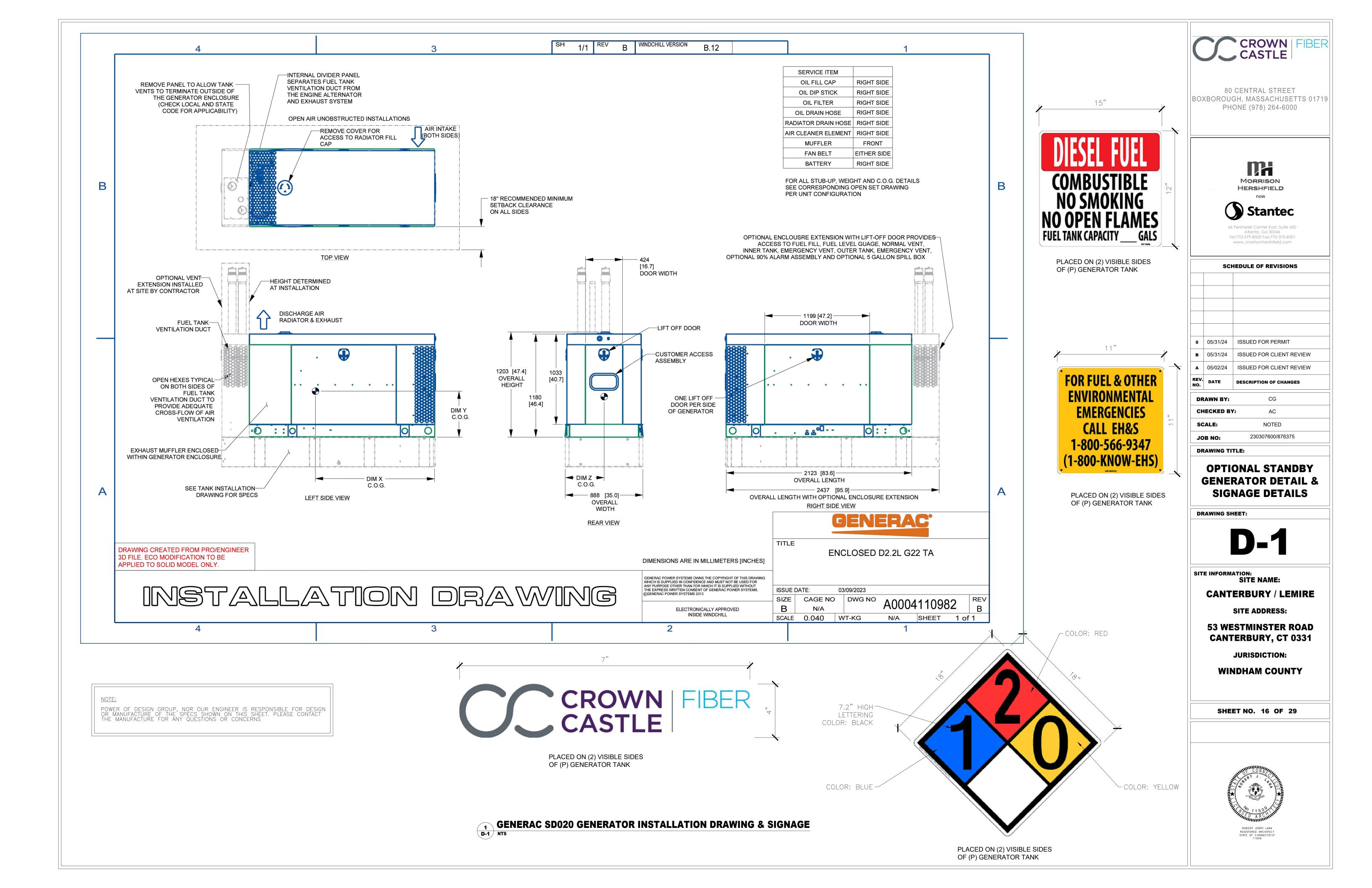
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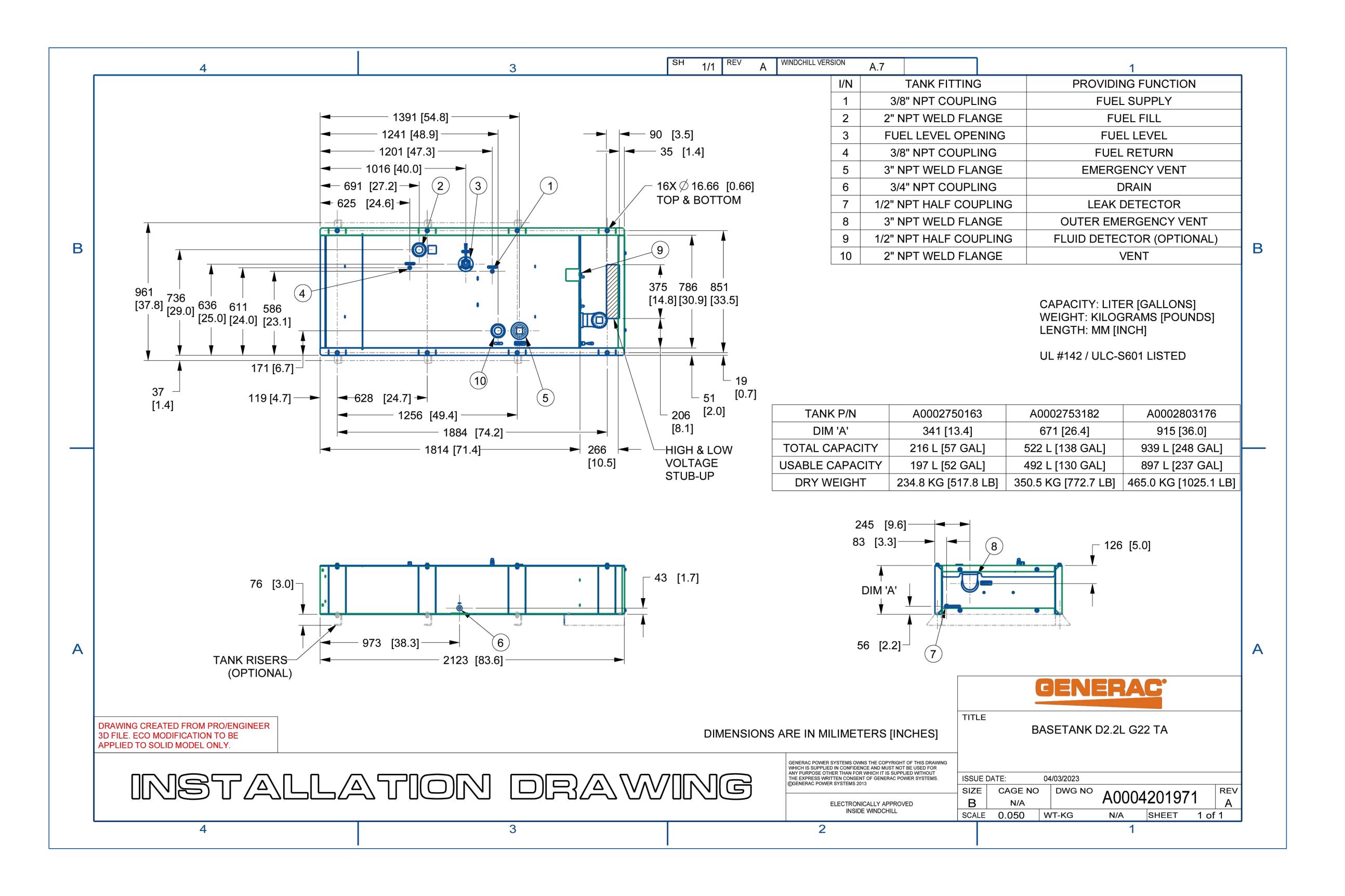
WINDHAM COUNTY

SHEET NO. 15 OF 29



GROUND BAR DETAIL 6 GR





NOTE:

POWER OF DESIGN GROUP, NOR OUR ENGINEER IS RESPONSIBLE FOR DESIGN OR MANUFACTURE OF THE SPECS SHOWN ON THIS SHEET. PLEASE CONTACT THE MANUFACTURE FOR ANY QUESTIONS OR CONCERNS





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DR	AWN BY:	CG
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SC	ALE:	NOTED
JO	B NO:	230307600/876375
DR	AWING TIT	 'LE:

GENERATOR SPECS

DRAWING SHEET:

D-2

SITE INFORMATION:
SITE NAME:

CANTERBURY / LEMIRE

SITE ADDRESS:

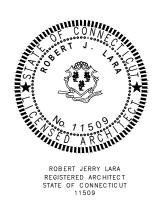
53 WESTMINSTER ROAD

CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 17 OF 29





GENERAC INDUSTRIAL

Standby Power Rating 20 kW, 25 kVA, 60 Hz

ENGINEERS BOILT

*Assembled in the USA using demarks and foreign parts

EPA Certified Stationary Emergency

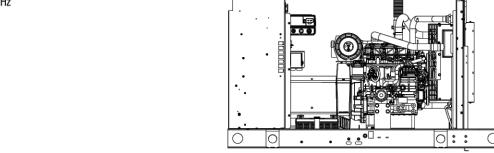
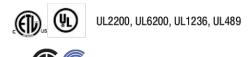


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.





BS5514 and DIN 6271

CSA C22.2, ULC S601



NFPA 37, 70, 99, 110



NEMA ICS10, MG1, 250, ICS6,



ANSI C62.41

Powering Ahead

For over 60 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software. Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD020T | 2.2L | 20 kW INDUSTRIAL DIESEL GENERATOR SET

GENERAC' | INDUSTRIAL

EPA Certified Stationary Emergency

Battery Cables

Battery Tray

STANDARD FEATURES

ENGINE SYSTEM

Air Cleaner

- ELECTRICAL SYSTEM Oil Drain System . Battery Charging Alternator
- · Level 1 Fan and Belt Guards (Open Set Only) · Stainless Steel Flexible Exhaust Connection · Factory Filled Oil and Coolant
- · Radiator Duct Adapter (Open Set Only) · Critical Silencer (Enclosed Units Only) · Engine Coolant Heater

FUEL SYSTEM

· Fuel Lockoff Solenoid Primary Fuel Filter

COOLING SYSTEM

· Closed Coolant Recovery System UV/Ozone Resistant Hoses Factory-Installed Radiator

Radiator Drain Extension

50/50 Ethylene Glycol Antifreeze

· Amortisseur Winding (3-Phase Only) Full Load Capacity Alternator

· Protective Thermal Switch GENERATOR SET

· Rotor Dynamically Spin Balanced

Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

Class H Insulation Material

UL2200 GENprotect™

2/3 Pitch

Skewed Stator

Sealed Bearings

Brushless Excitation

· Internal Genset Vibration Isolation Separation of Circuits - High/Low Voltage . Separation of Circuits - Multiple Breakers

· Not in Auto (Flashing Light)

· Full Range Standby Operation

Emergency Stop

Modbus® RTU

CANbus

 Wrapped Exhaust Piping (Enclosed Units Only) Standard Factory Testing 2 Year Limited Warranty (Standby Rated Units) . Silencer Mounted in the Discharge Hood (Enclosed Units Only)

CONTROL SYSTEM



Power Zone® 410 Controller

· Programmable Auto Crank

On/Off/Manual Switch

RS-232 x2

RS-485 x2

· Selectable Low Speed Exercise

· All-Phase Sensing Digital Voltage Regulator

SD020T | 2.2L | 20 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby - See Bulletin 0187500SSB

OPERATING DATA

- Power Factor Ruptured Tank Detection · Auxiliary Shutdown Switch Remote Communications
 - · NFPA110 Module Included (Key Switch, Alarm, I²T Function for Full Generator Protection (Contact
 - Full System Status Display Full System Status Display Multilingual 128x64 Graphical Display with Heater
 - · Easy Status View LED Screen 3-Phase AC Volts 3-Phase Amps

ENCLOSURE (IF SELECTED)

- · Rust-Proof Fasteners with Nylon Washers to
- · High Performance Sound-Absorbing Material Rubber-Booted Engine Electrical Connections
 - Gasketed Doors · Upward Facing Discharge Hoods (Radiator and RhinoCoat™ - Textured Polyester Powder Coat

(Sound Attenuated Enclosures)

- FUEL TANKS (IF SELECTED) UL 142/ULC S601
- Double Wall · Normal and Emergency Vents Factory Pressure Tested

Rupture Basin Alarm

· Line Power/Gen Power

Service Reminders

Water Temperature

Fuel Pressure/Level

Alternator Frequency

Alarms and Warnings

Common Alarm Output

Audible Alarm and Silence

GENERAC' INDUSTRIAL

Oil Pressure

Water Level

 Engine Speed Battery Voltage

· Fault History (Alarm Log)

Oil Temperature Indication and Alarm

· Output for Fuel Level High/Low Warning

- Fuel Level · Check Valve In Supply and Return Lines RhinoCoat™- Textured Polyester Powder Coat
- Stainless Steel Hardware

GENERATOR SET

- o Extended Factory Testing
 - o 8 Position Load Center Pad Vibration Isolation

SD020T | 2.2L | 20 kW

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

o Critical Silencer (Open Set Only)

o Level 1 Fan and Belt Guards (Open Set Only)

ENGINE SYSTEM

Radiator Stone Guard

NPT Flexible Fuel Line

ELECTRICAL SYSTEM

o 10A UL Listed Battery Charger

ALTERNATOR SYSTEM

Anti-Condensation Heater

o Permanent Magnet Excitation

FUEL SYSTEM

Battery Warmer

Tropical Coating

Oil Heater

INDUSTRIAL DIESEL GENERATOR SET

Remote E-Stop (Red Mushroom-Type, Flush o 100 dB Alarm Horn

 Up to 200 MPH Wind Load Rating (Contact Factory for Availability) AC/DC Enclosure Lighting Kit Door Open Alarm Switch

CIRCUIT BREAKER OPTIONS

o Main Line Circuit Breaker

Electronic Trip Breakers

Level 0 Sound Attenuated

Level 1 Sound Attenuated

Level 2 Sound Attenuated

Steel Enclosure

o Aluminum Enclosure

ENCLOSURE

o 2nd Main Line Circuit Breaker

o 3rd Main Line Circuit Breaker

Shunt Trip and Auxiliary Contact

FUEL TANKS (SIZES ON LAST PAGE) WARRANTY (STANDBY GENSETS ONLY)

- 2 Year Extended Limited Warranty 5 Year Limited Warranty
- 5 Year Extended Limited Warranty 7 Year Extended Limited Warranty 10 Year Extended Limited Warranty
- o 13 in (330.2 mm) Fill Extension o 19 in (482.6 mm) Fill Extension Overfill Protection Valve
 - o 5 Gallon Spill Box Return Hose 5 Gallon Spill Box
 - o 12' Emergency Vent Fire Rated Stainless Steel Fuel Hose Fuel Drop Tube

GENERAC INDUSTRIAL

CONTROL SYSTEM

NFPA 110 Compliant 21-Light Remote

Remote Relay Assembly (8 or 16)

o Oil Temperature Indicator and Alarm

Remote E-Stop (Break Glass-Type, Surface

Remote E-Stop (Red Mushroom-Type, Surface

o Inputs (x12) / Outputs (x12)

Battery Disconnect Switch

Ground Fault Annunciator

10A Engine Run Relay

o 120V GFCI and 240V Outlets

o 8 in (203.2 mm) Fill Extension

NFPA Module

Annunciator

Vent Extensions All Tanks Above 52 gal Available in Extended

ENGINEERED OPTIONS

ENGINE SYSTEM

Special Testing

Coolant Heater Ball Valves Fluid Containment Pan

FUEL TANKS UL 2085 Tank Stainless Steel Tank

Special Fuel Tanks

GENERATOR SET

SD020T | 2.2L | 20 kW INDUSTRIAL DIESEL GENERATOR SET EPA Certified Stationary Emergency

GENERAC INDUSTRIAL

APPLICATION AND ENGINEERING DATA

STANDARD ALTERNATOR SPECIFICATIONS

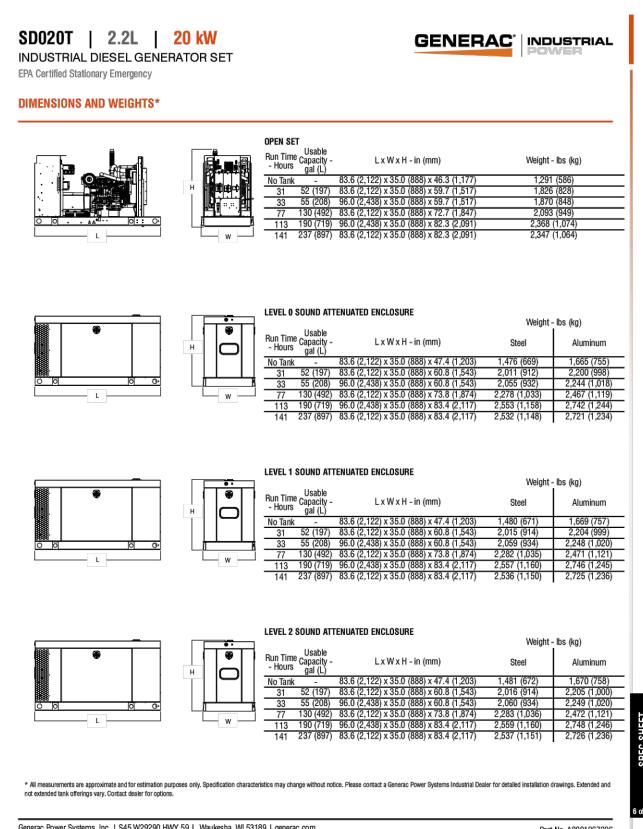
ENGINE SPECIFICATIONS		Cooling System	
General		Cooling System Type	Closed Recovery
		Fan Type	Pusher
Make	Perkins	Fan Speed - RPM	1,980
EPA Emissions Compliance	Stationary Emergency	Fan Diameter - in (mm)	18.0 (457.2)
EPA Emissions Reference	See Emission Data Sheet		
Cylinder #	4	Fuel System	
Type	In-line	_	
Displacement - in3 (L)	135 (2.22)	Fuel Type	Ultra Low Sulfur Diesel Fuel
Bore - in (mm)	3.3 (84)	Fuel Specifications	ASTM
Stroke - in (mm)	3.9 (100)	Fuel Filtering (Microns)	5
Compression Ratio	23.3:1	Fuel Inject Pump	Distribution Injection Pump
Intake Air Method	Turbocharged/Aftercooled	Fuel Pump Type	Cassette
Cylinder Head	Cast Iron	Injector Type	Indirect
Piston Type	Aluminum	Fuel Supply Line - in (mm)	0.31 (7.94) ID
Crankshaft Type	Forged Steel	Fuel Return Line - in (mm)	0.19 (4.76) ID
Engine Governing		Engine Electrical System	
Governor	Electronic Isochronous	System Voltage	12 VDC
Frequency Regulation (Steady State)	±0.5%	Battery Charger Alternator	Standard
		Battery Size	See Battery Index 0161970SBY
Lubrication System		Battery Voltage	12 VDC
_		Ground Polarity	Negative
Oil Pump Type	Gear Driven		
Oil Filter Type	Full-Flow Cartridge		
0 1 000 0 0 100	7		

___ ___ ____ ____ ___ ____ 1____

POWER RATINGS					
		Stan			
	Single-Phase 120/240 VAC @1.0pf	20 kW	Amps: 83		
	Three-Phase 120/208 VAC @0.8pf	20 kW	Amps: 69		
	Three-Phase 120/240 VAC @0.8pf	20 kW	Amps: 60		
	Three-Phase 277/480 VAC @0.8pf Three-Phase 346/600 VAC @0.8pf	20 kW 20 kW	Amps: 30 Amps: 24		
	mree-Phase 340/000 VAC @0.opi	ZU KVV	Amps: 24		
MOTOR STARTING	CAPABILITIES (SKVA)				
	skVA vs. V				
		208/240 VAC 3Ø	35%		
	K0050124Y26 41	K0050124Y26	44		
	K0035044N26 41	K0035044N26	44		
FUEL CONSUMPTI	ON RATES*				
	F-18 19 543	_	Diesel - gph (Lph)	#	
	Fuel Pump Lift - ft (m)			andby	
	3 (1)			(3.5)	
	Table de la Fill (Contacto de la Contacto de la Con			(4.1)	
	Total Fuel Pump Flow (Combustion + Return) - gph (Lph)			(5.0)	
	16.6 (63.0)			(6.4)	
		*Fuel sup fuel cons	ply installation must acco umption rates at 100% loa	ommodate ad.	
COOLING					
			Stand		
	Coolant Flow	gpm (Lpm)			
	Coolant System Capacity	gal (L)	3.3 (1		
	Heat Rejection to Coolant	BTU/hr_(kW			
	Inlet Air	cfm (m³/mir			
	Maximum Operating Ambient Temperature	°F (°C)	122 (50)	
	Maximum Operating Ambient Temperature (Before Derate)		illetin No. 0199280SSD		
	Maximum Operating Ambient Temperature (Before Derate) Maximum Additional Radiator Backpressure	See Bu in H2O (kPa		.12)	
COMBUSTION AIR	Maximum Additional Radiator Backpressure			.12)	
COMBUSTION AIR	Maximum Additional Radiator Backpressure REQUIREMENTS	in H2O (kPa	0.5 (0	.12)	
COMBUSTION AIR	Maximum Additional Radiator Backpressure	in H2O (kPa	0.5 (0	.12)	
	Maximum Additional Radiator Backpressure REQUIREMENTS	in H2O (kPa	0.5 (0	.12)	
ENGINE	Maximum Additional Radiator Backpressure REQUIREMENTS Flow at Rated Power - scfm (m³/min) Standby	in H2O (kPa Si 87 EXHAUST	0.5 (0		
ENGINE Rated Engine Speed	Maximum Additional Radiator Backpressure REQUIREMENTS Flow at Rated Power - scfm (m³/min) Standby RPM 1,800	in H2O (kPa Si 87 EXHAUST	0.5 (0 tandby 9 (2.5)	scfm (m³/ min)	175.2 (5
ENGINE Rated Engine Speed Horespower at Rated kV	Maximum Additional Radiator Backpressure	in H2O (kPa Si 87 EXHAUST Exhaust Flow (Ra Maximum Allowa	0.5 (0	scfm (m³/ min)	175.2 (5
ENGINE Rated Engine Speed	Maximum Additional Radiator Backpressure REQUIREMENTS Flow at Rated Power - scfm (m³/min) Standby RPM 1,800	in H2O (kPa Si 87 EXHAUST Exhaust Flow (Ra Maximum Allowa (Post Silencer)	0.5 (0 tandby 9 (2.5)	scfm (m³/ min)	Standb 175.2 (5. 3.1 (10.3 (32.4 (3.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (32.4 (3.4 (3.4 (3.4 (3.4 (3.4 (3.4 (3.4 (3

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.

Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with BS5514 and DIN6271 standards.



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В	05/31/24	ISSUED FOR CLIENT REVIEW
0	05/31/24	ISSUED FOR PERMIT

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СН	ECKED BY	f: AC
SC	ALE:	NOTED
JO	B NO:	230307600/876375
DR	AWING TI	 TLE:

GENERATOR SPECS

DRAWING SHEET:

SITE INFORMATION: SITE NAME: CANTERBURY / LEMIRE

53 WESTMINSTER ROAD CANTERBURY, CT 0331

SITE ADDRESS:

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SHEET NO. 18 OF 29





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Rev. B 07/20/2023

Vertiv™ XTE 601 Series Dual Bay Equipment Enclosures Description and Installation Manual

Vertiv™ XTE 601 Series Dual Bay Equipment Enclosures Description and Installation Manual

Figure 2.5 Approximate Area Required for Installing 84"x 32" Cabinets

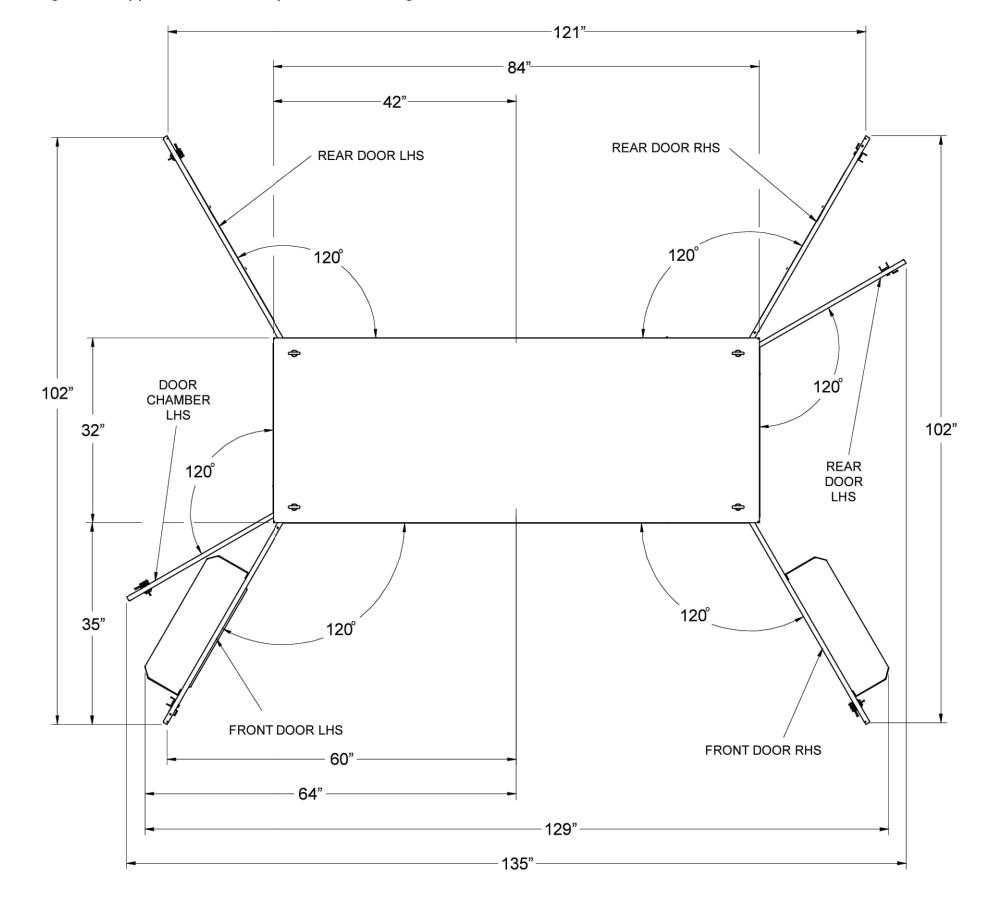
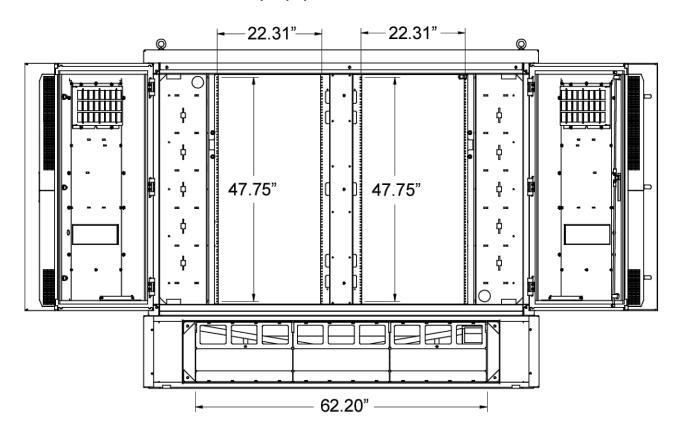
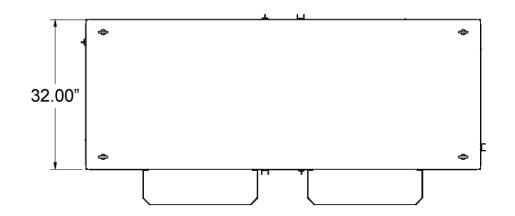
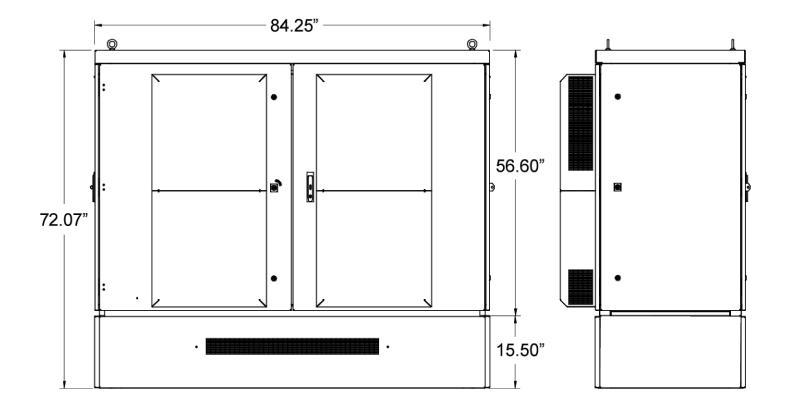


Figure 2.6 Vertiv™ XTE 601 Series Dual Bay Equipment Enclosure (84"W x 32"D) Dimensions







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VERTIV FLEX 27 XTE 601 SPECIFICATIONS

NTS

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SITE ADDRESS:

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SHEET NO. 19 OF 29



Product data sheet



Safety switch, double throw, non fusible, 100A, 240VAC, 250VDC, 2 pole, 20HP, NEMA 3R, bolt on provision

Product availability: Stock - Normally stocked in distribution

Price*: 1,347.00 USD

Product	Double Throw Safety Switch	
Duty Rating	Heavy duty	
Disconnect Type	Non-fusible disconnect switch	
Factory Installed Neutral	None	
Number Of Poles	2	
Current Rating	100 A	
Voltage Rating	240 V AC 250 V DC	
Enclosure Rating	NEMA 3	
Motor Power Hp	15 hp at 240 V AC 50-60 Hz for 1 phase motors 20 hp at 250 V DC	

	20 np at 250 V DC	
Complementary		
Short-Circuit Current	10 kA H or K 200 kA R, J or T	
Fuse Type	H or K R, J or T	
Mounting Type	Surface	
Wire Size	AWG 12AWG 1/0 aluminium AWG 14AWG 1/0 copper	
Tightening Torque	35 lbf.in (3.95 N.m) 0.000.01 in² (2.065.26 mm²) (AWG 14AWG 1/0) 40 lbf.in (4.52 N.m) 0.01 in² (8.37 mm²) (AWG 8) 45 lbf.in (5.08 N.m) 0.020.08 in² (13.3053.48 mm²) (AWG 8) 50 lbf.in (5.65 N.m) 0.040.08 in² (26.6753.48 mm²) (AWG 6AWG 4)	
Depth	6.93 in (176.02 mm)	
Width	11.96 in (303.78 mm)	
Height	30.5 in (774.70 mm)	
Net Weight	40.50 lb/(15) (48.37 kg)	

Certifications	UL Listed

Environment

Ordering and shipping details

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price

May 17, 2024	Life is On Schneider	1

Category	US10DE100133	
Discount Schedule	0DE1	
Gtin	785901308492	
Returnability	Yes	
Country Of Origin	us	
Packing Units		

Packing Units		
Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	10.30 in (26.162 cm)	
Package 1 Width	12.50 in (31.75 cm)	
Package 1 Length	33.00 in (83.82 cm)	
Package 1 Weight	37.31 lb(US) (16.924 kg)	

Contra	ctual w	arranty
-		

18 months

Sustainability Serenium

Green Premium[™] label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products. Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >



Well-being performance

Transparency RoHS/REACh

Reach Free Of Svhc

Mercury Free

Toxic Heavy Metal Free

Rohs Exemption Information

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65V/arnings.ca.gov

May 17, 2024 Life is On Schneider

MTS SPEC

General Data

Enclosure dimensions (H x W x D)

UL Type 3R aluminum enclosure

Uses die-cast pin hinges, black powder

Dead front panel protects utility gen set

for integrity, strength and durability while

keeping bugs and creatures out when

Bottom closure hinges open to provide

7.25" W x 3"D opening for cable conductors

Cable management system is a bridge lance

Ships with left opening; may open to the

of cabinet (Figure 3, front page)

1Ø, rated 240/120, 200 A,10 kA short

3Ø, rated 208/120, 200 amps,10 kA short

right by moving hinges to the opposite side

23 x 10 x 9.5 inches

Flush mount weld

gen set is not connected

(Figure 2, front page)

for plastic zip ties

UL RAL 7035 - Light grey

UL 1008A, 5th ed, or current

Manufacturer's warranty

5 years

Powder coat paint

Pad lockable

14 lbs (approx.)

Life is On Schneider



Power Transfer UL 1008A Listed to 200 A





Generator Connector (ICGC) Series uses Com-Lok style connectors

- tools—just a 180° turn assures a high-pressure contact with minimum resistance
- 10 kA short circuit rating appropriate for new and retrofit applications without requiring any labeling changes or derating of 10 kA rated emergency power systems
- contacts withstand a pulling force of 1,000 lbs A gasket ships with each ICGC to insure a watertight seal Optional cable kit for auto start-stop of an engine generator set (from the automatic transfer switch connections) assures wiring is
- ICGC Series features ensure safety during installation and operation
- colors providing fast, easy phase identification
- Impervious to vibration, preventing inadvertent disconnects Enclosure is pad-lockable to prevent unauthorized access Hinged bottom closure ensures connectors are not exposed when not in use and reduces potential of environmental threats from

For a quotation, contact Intersect at solutions@intersectinc.com.



Featuring a Type 3R enclosure for outdoor use, the Intersect Cam-Lok and replaces commonly-used generator receptacles.

- ICGC Series design features provide installation ease and flexiblity · Knockouts on the left, right, and back side of the enclosure provide three installation options May be wall-mounted, H-Frame mounted, or installed as a new or
- retrofit engine generator connector to shelters or cabinets Connect or disconnect Cam Lok-style connectors without
- Proven to provide optimal electrical and mechanical connections in numerous power applications and severe operating conditions -
- on-site for installations
- · Cam Lok-style connectors are single-pole plugs and receptacles, insulated for watertight integrity and safety Insulators are molded from colorfast materials, with five different
- Male and female connectors provide insulated, recessed contacts and have no moving contact surfaces, eliminating risk of arcing or

dust, insects or other invasive creatures



CAM LOCK SPEC
D-5 NTS

Mounting box for use with 10 or 30 ICGC enclosures Cabling kit for auto start-stop of gen set(s): 20' of SOOW-16-2 cable with 1/4" insulated ring for gen set connection, HEYCO M4340 & 20 mm drill bit for gen set connection, HEYCO M4340 & 20 mm drill bit wiring connections (Figure 1, front page)
1. All parts listed include male Cam-Lok style connectors. Units are UL 1008 Transfer Switch Power Inlet Standard rated for use

 Gasket provided to help insure water-tight on 120/240 or 120/208 V up to 200 A installations. Cam-Lok Style Connectors

May 17, 2024

 Bottom closure employs an integrated hinge Type UL Listed Cam-Lok style, 180° twist on/off single-pole receptacles Conforms to NEC May be used for 240/120 1Ø applications

 Rated up to 400 A, 208/120 V, 3Ø Cam-Lok terminal acceptance: - Plug: 200 A, #2 to 4/0 AWG - Receptacle: 200 A, #2 to 4/0 AWG Power connectors Solid brass machined connectors Color coded: Green — Ground

White — Neutral Black — Line 1 Red — Line 2 Blue – Line 3

Installation instructions are for a 240/120, single phase application. A 208/120, three phase application will include

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-	ALE	NOTED	

EQUIPMENT SPECS

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DRAWING TITLE:



SITE INFORMATION: SITE NAME: CANTERBURY / LEMIRE

SITE ADDRESS:

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JURISDICTION:

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Product data sheet Characteristics

D223NRB SWITCH FUSIBLE GD 240V 100A 2P NEMA3R

Product availability: Stock - Normally stocked in distribution facility

Price*: 480.00 USD



B 4		
- I\ /I	211	1
IVI	all	

Product or component type	Single Throw Safety Switch
Line Rated Current	100 A
Product certifications	UL listed
NEMA degree of protection	NEMA 3R
Disconnector device type	Fusible disconnect
Device composition	Neutral (factory installed)
Short-circuit current	100 kA maximum depending on fuse H, K or R
Device mounting	Surface
Number of poles	2
Electrical connection	Lugs
Series name	General duty

Ordering and shipping details

Category	00106 - D & DU SW,NEMA3R, 30-200A	
Discount Schedule	DE1A	700
GTIN	00785901460701	
Nbr. of units in pkg.	1	
Package weight(Lbs)	15.4600000000001	ū
Returnability	Υ	
Country of origin	US	- Joseph

Contractual warranty

Warranty period	18 months
-----------------	-----------

Sep 21, 2017

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CROWN | FIBER CASTLE

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SITE ADDRESS:

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SHEET NO. 21 OF 29



Product data sheet

SQUARE 1



SPD - XDSE Type 1 - 120/240V -1PH - 3 Wire - 150kA

SSP01XDSE15A1

Discontinued on: May 12, 2023

! Discontinued

Main

Product

Environment

Packing Units

Unit Type Of Package 1

Package 1 Height

Package 1 Width

Package 1 Length

Package 1 Weight

Number Of Units In Package 1

Enclosure Rating

Voltage Rating	120/240 V AC
Mcov	150 V
Surge Current	150 A per phase
Voltage Protection Rating	700 V L-N 700 V L - G 600 V L - L 1000 V N - G
Rated Current	20 kA
Number Of Phases	1 phase
Wiring Configuration	3-wire (isolated ground)
Height	5.98 in (152 mm)
Width	5.98 in (152 mm)
Depth	3.98 in (101 mm)

Surge protection device

NEMA 4X

PCE

5.50 in (13.97 cm)

10.70 in (27.178 cm)

12.60 in (32.004 cm)

3.98 lb(US) (1.805 kg)

May 17, 2024

Life Is On Schneider

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low- CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information



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0	05/31/24	ISSUED FOR PERMIT
В	05/31/24	ISSUED FOR CLIENT REVIEW
A	05/02/24	ISSUED FOR CLIENT REVIEW
REV. NO.	DATE	DESCRIPTION OF CHANGES
DR	AWN BY:	CG
СН	IECKED BY	f: AC
SC	ALE:	NOTED
JO	B NO:	230307600/876375

EQUIPMENT SPECS

DRAWING SHEET:



CANTERBURY / LEMIRE

SITE INFORMATION:
SITE NAME:

SITE ADDRESS:

53 WESTMINSTER ROAD CANTERBURY, CT 0331

JURISDICTION:

WINDHAM COUNTY

SHEET NO. 22 OF 29





Life Is On Schneider

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May 17, 2024