

What Powers You

July 25th, 2022

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

RE: **PETITION NO. 1522** - Bloom Energy Corporation petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a customer-side 700-kilowatt fuel cell facility and associated equipment to be located at Allied Printing Services, 1 Allied Way (a/k/a 1046R Tolland Turnpike), Manchester, Connecticut.

Dear Ms. Bachman:

Please see the attached responses to the interrogatories provided to Bloom Energy on July 13th, 2022.

Respectfully,



Kristen Grillo
Senior Permitting Specialist | East Coast Field Office
Customer Installations Group | North America
(917) 803-4511
Kristen.Grillo@bloomenergy.com



Bloom Energy Corporation
4353 North First Street, San Jose, CA 95134
408 543 1500
www.bloomenergy.com

Petition No. 1522
Bloom Energy Corporation
Allied Printing Services, 1 Allied Way (a/k/a 1046R Tolland Turnpike), Manchester

Interrogatories

1. What is the estimated cost of the proposed project?

Response: The estimated cost of the project is \$965,022.00

2. Referencing page 10 of the Petition, has the Town of Manchester and/or abutters provided comments to Bloom since the Petition filing? If yes, summarize the comments.

Response: No comments have been provided by the City. We received an inquiry from one of the abutters (1046 Tolland Turnpike) requesting details on the proposed installation; please see the attached email correspondence. (Attachment 1).

3. Referencing page 4 of the Petition, identify the media to be used for pipe cleaning procedures at the proposed facility in accordance with Public Act 11-101, An Act Adopting Certain Safety Recommendations of the Thomas Commission and Connecticut General Statutes § 16-50ii.

Response: The media to be used for the pipe cleaning procedures at the proposed facility would be compressed air.

4. What security measures would be employed to protect the fuel cell units/components from vandalism or intrusion?

Response: The fuel cells are tamper-proof; the internal components of the system cannot be accessed without a unique key that is needed in order to open the servers, preventing anyone that is non-essential personnel from accessing them.

5. Referencing Sheets C1.1 and G1.1, provide a site plan drawing (i.e. blueprint) to depict the fuel cell facility, concrete pad(s) (if applicable) and associated utility connections.

Response: Please see Attachment 2 for site plan drawings, depicting the fuel cell facility, concrete pad, and associated utility connections, as requested.

6. Would the fuel cell facility include vehicle impact protection measures? If yes, include such measures on the site plan drawing provided in the response to Question 5.

Response: No vehicle impact protections are proposed. The Bloom fuel cells are in a private and controlled area where the maximum speed limit for vehicular traffic is at or below 15mph. They are sufficiently setback greater than 3' from a raised curb, which acts as a means to deflect or deter vehicles from further accidental impact with the fuel cells themselves. Additionally, the fuel cells and energy server systems are located outside of a vehicle's normal travel path or designated drive aisles, all in accordance with sections 303.4 of the 2021 International Mechanical Code (IMC) and 303.4 of the 2021 International Fuel Gas Code (IFGC).

Attachment 1: Abutters Inquiry

Kristen Grillo

From: Kristen Grillo
Sent: Thursday, June 16, 2022 11:50 AM
To: Debi Norton
Cc: Richard Hayes Jr.
Subject: RE: Application for 700-kilowatt Fuel Cell at Allied Printing Services - 1 Allied Way (1046 Tolland Turnpike Rear), Manchester, CT
Attachments: APS000.0_Site Plan.pdf; APS000.0_Sound Study..pdf

Good morning Debi,

Thank you for reaching out to discuss the project. I've attached a copy of our site plan and sound study report, performed by a 3rd party Noise Consultant. If you have any further questions after reviewing the attached material, please don't hesitate to reach out.

Thank you.



Kristen Grillo

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From: Debi Norton <debi@hayesdevelopers.com>
Sent: Thursday, June 16, 2022 11:30 AM
To: Kristen Grillo <Kristen.Grillo@bloomenergy.com>
Cc: Richard Hayes Jr. <rich@hayesdevelopers.com>
Subject: Application for 700-kilowatt Fuel Cell at Allied Printing Services - 1 Allied Way (1046 Tolland Turnpike Rear), Manchester, CT
Importance: High

EXTERNAL EMAIL

Good morning Kristen:

With regard to the attached letters we received yesterday, please forward a set of plans to us via email, as my supervisor, Rich Hayes has asked to review them (he wants to know how much noise will be generated by this proposed facility).

Thank you,

Debi Norton
Executive Assistant

Hayes Developers

1471 Pleasant Valley Road

Manchester, CT 06042

860-646-0131

Attachment 2: Site Plan Drawing



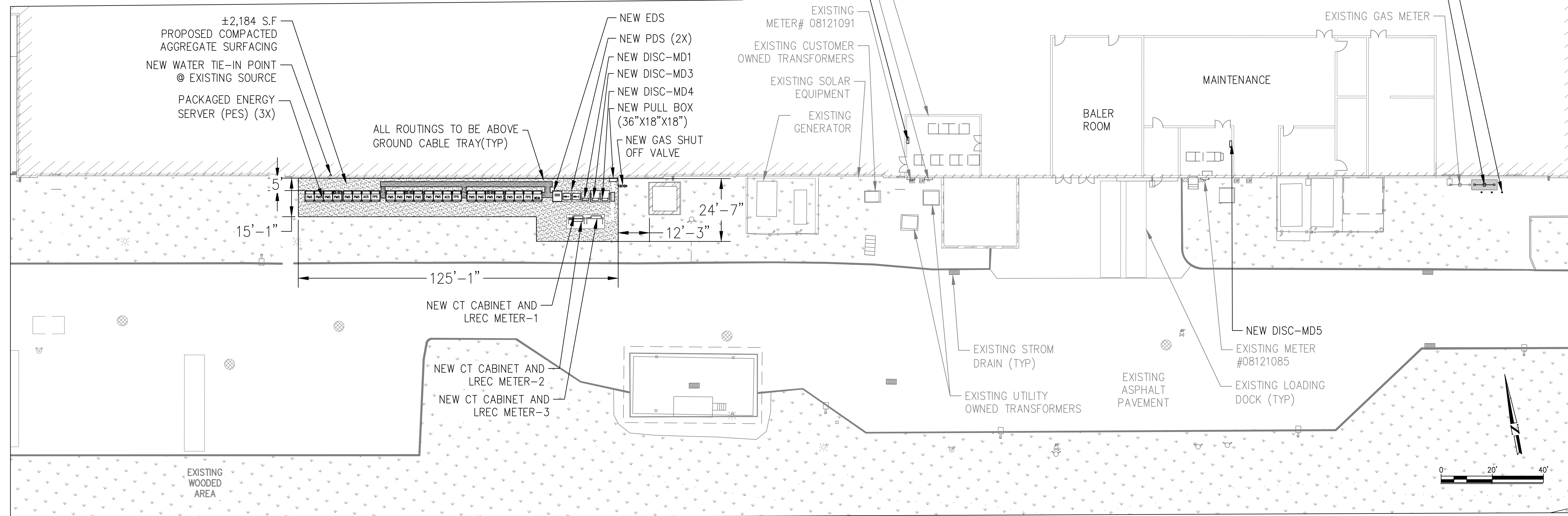
APPROXIMATE PROPERTY LINE
PER HARTFORD COUNTY
ASSERORS MAP

PACKAGED ENERGY
SERVER LOCATION

OVERALL SITEPLAN

SCALE: NTS

1
G1.1



OVERALL SITE PLAN

SCALE: 1" = 20'

2
G1.1

GENERAL NOTES

1. CLEAN AND PRIME ALL NEW WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
2. CONDUITS AND PIPES MOUNTED TO BUILDING WALL SHALL BE SUPPORTED AS PER LOCAL CODE, RUN AT HEIGHT ABOVE DOORWAYS, AND STAND OFF WALL TO AVOID EXISTING CONDUITS AND PIPES.
3. SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

Bloomenergy

4353 N. FIRST STREET
SAN JOSE, CA 95134
PROPRIETARY AND CONFIDENTIAL

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ENGINEER OF RECORD
CARSON TURNER, P.E.
LICENSE # 22700

CUSTOMER SITE

ALLIED PRINTING SERVICES
1 ALLIED WAY, MANCHESTER
CT 06042



REVISION HISTORY

REV	REVISION ISSUE	DATE
-	INITIAL RELEASE	07/20/2022

DESIGNED BY MARK BERNARDI-REIS	REVIEWED BY SASHA SCARLAT
DRAWN BY NISCHITHA S P	APPROVED BY CARSON TURNER

SHEET TITLE

OVERALL
SITE PLAN

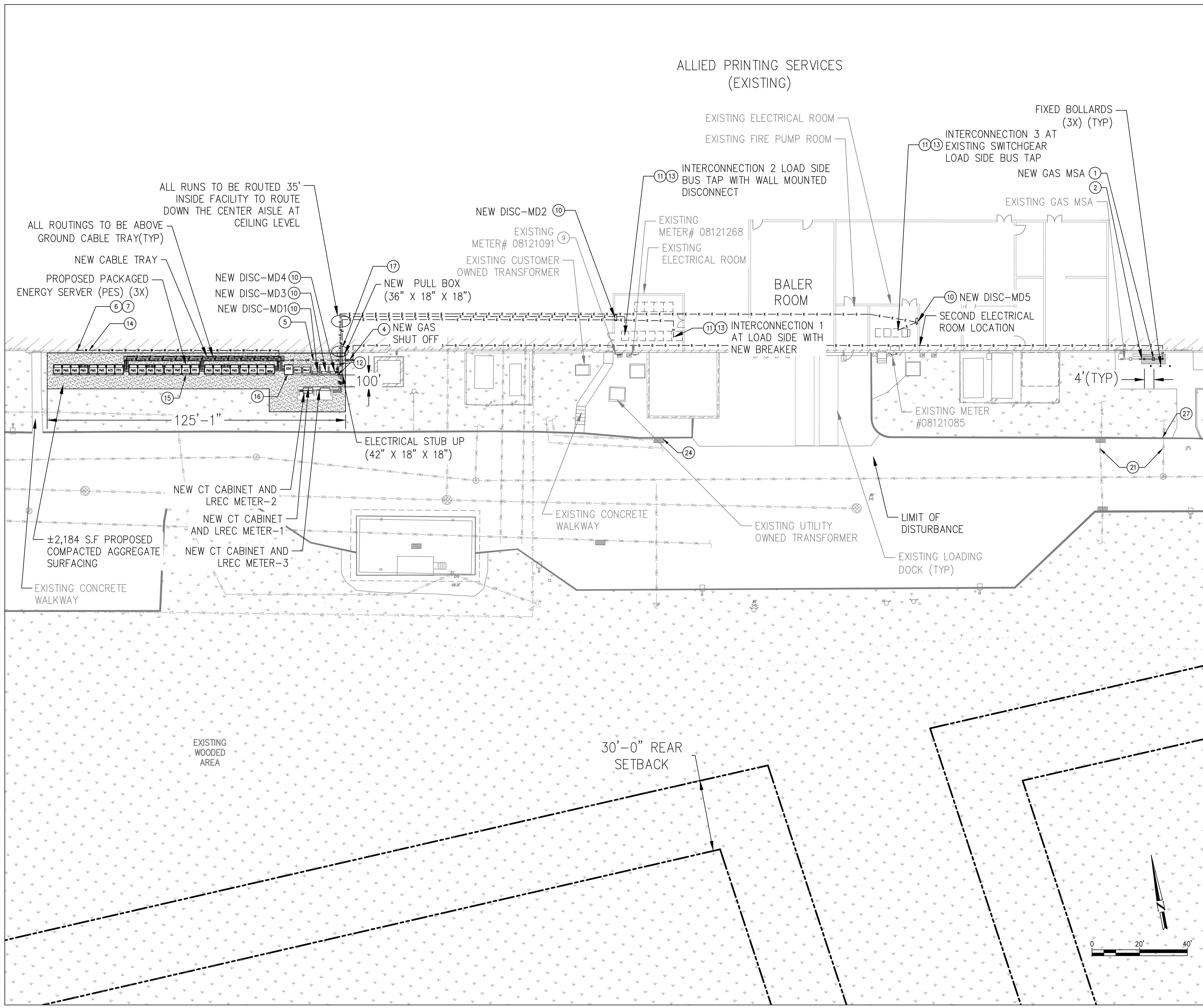
DRAWING NUMBER

G1.1

BLOOM DOCUMENT

DOC-1014516

THIS DRAWING IS 24" X 36" AT FULL SIZE
SITE ID: APS000.0 SHEET 03 OF 15



GENERAL NOTES

- CLEAN AND PRIME ALL NEW WALL MOUNTED PIPING AND CONDUIT. PIPING AND CONDUIT SHALL BE PAINTED WITH EXTERIOR GRADE PAINT TO MATCH EXISTING.
- CONDUITS AND PIPES MOUNTED TO BUILDING WALL SHALL BE SUPPORTED AS PER LOCAL CODE, RUN AT HEIGHT ABOVE DOORWAYS, AND STAND OFF WALL TO AVOID EXISTING CONDUITS AND PIPES.
- SEE BLOOM ENERGY PRODUCT INSTALLATION DRAWINGS FOR UTILITY CONNECTIONS TO ANCILLARY EQUIPMENT AND ENERGY SERVER.

REFERENCE SHEET NOTES

- UTILITY SHALL FURNISH AND INSTALL GAS METER & REGULATOR ASSEMBLY WITH SHUT-OFF VALVE. CONTRACTOR SHALL FURNISH AND INSTALL CONCRETE PAD. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS WITH GAS UTILITY.
- UTILITY SHALL FURNISH AND INSTALL UNDERGROUND GAS SERVICE TAP. CONTRACTOR SHALL PERFORM COMPACTION TO MATCH EXISTING SURFACE AND GRADE. CONTRACTOR SHALL COORDINATE TAP, GAS PIPE SIZING AND INSTALLATION REQUIREMENT WITH GAS UTILITY. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL BLOOM ENERGY SERVER GAS SHUT-OFF VALVE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL GAS PIPE. REFER TO GAS RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- TAP EXISTING WATER LINE AT NEAREST ACCESSIBLE LOCATION IN BUILDING AS SHOWN WITH A LOCAL SHUT-OFF VALVE. REFER TO DOMESTIC WATER CONNECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- FURNISH AND INSTALL WATER PIPE. REFER TO WATER RISER DETAIL FOR ADDITIONAL REQUIREMENTS.
- EXISTING UTILITY ELECTRIC METER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- BLOOM ENERGY SHALL FURNISH AND CONTRACTOR SHALL INSTALL DISCONNECT SWITCH. MOUNT DISCONNECT SWITCH TO THE WALL/STRUT PER MANUFACTURER AND UTILITY SPECIFICATIONS.
- CONTRACTOR SHALL TERMINATE ELECTRIC FEEDER AS SHOWN. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL TWO GROUNDING RODS PLACED A MINIMUM OF 6' APART. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL FEEDER. REFER TO ELECTRICAL SINGLE LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
- MOUNT NEW CONDUIT TO CEILING. COORDINATE EXACT ROUTING WITH CUSTOMER REPRESENTATIVE IN THE FIELD. REFER TO WALL MOUNTING DETAIL FOR ADDITIONAL REQUIREMENTS.
- PROPOSED BLOOM ENERGY PACKAGED ENERGY SERVER. REFER TO BLOOM ENERGY STANDARD INSTALLATION DRAWING SET FOR ADDITIONAL BLOOM ENERGY PACKAGED ENERGY SERVER DETAILS.
- FACTORY WIRE BLOOM ENERGY SERVER EMERGENCY POWER-OFF SWITCH (EPO).
- CONTRACTOR SHALL CORE CONDUIT AND/OR PIPE THROUGH WALL. SCAN WALL PRIOR TO CORING TO AVOID COLLATERAL DAMAGE TO EXISTING PLUMBING AND WIRING. REFER TO WALL PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL SAWCUT TRENCH FOR UNDERGROUND UTILITIES IN THIS LOCATION AND HAND DIG TRENCHES WHERE THEY CROSS EXISTING UTILITIES. REFER TO UNDERGROUND/TRENCH CONDUIT AND PIPING DETAIL FOR ADDITIONAL REQUIREMENTS.
- PROTECT EXISTING UNDERGROUND UTILITY LINES FROM DAMAGE WHEN CROSSING WITH UNDERGROUND UTILITIES. CONTRACTOR SHALL REPAIR AND REPLACE ANY DAMAGED LINES.
- FURNISH AND INSTALL "DANDY SACK" OR AN EQUIVALENT EQUAL WITH OUTFLOW PORTS AT STORM DRAIN INLET. REFER TO STORM DRAIN PROTECTION DETAIL FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR SHALL UNDER-CUT EXISTING CURB FOR TRENCHING UTILITY LINES AND BACKFILL WITH CONCRETE SLURRY. IF CURB IS DAMAGED, REPAIR TO MATCH EXISTING.

EXISTING UTILITY NOTE:
THE LOCATION OF EXISTING UTILITIES IS SHOWN FOR THE CONTRACTOR'S REFERENCE. EXACT LOCATION, DEPTH AND SIZE OF ALL EXISTING UTILITIES IS NOT KNOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES NOT SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PROTECT THE EXISTING UNDERGROUND UTILITIES FROM DAMAGE WHEN CROSSING WITH NEW UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED LINES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGN HEREON INAPPROPRIATE AND MAY REQUIRE ADJUSTMENTS TO AVOID CONFLICTS.

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