

STATE OF CONNECTICUT

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Web Site: portal.ct.gov/csc

VIA ELECTRONIC MAIL

June 5, 2024

Kristen Grillo Bloom Energy Corporation 4353 North First Street San Jose, CA 95134 Kristen.Grillo@bloomenergy.com

RE: **PETITION NO. 1563** - Bloom Energy Corporation Declaratory Ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the construction, maintenance and operation of a customer-side 250-kilowatt fuel cell facility and associated equipment located at Manchester Community College, 14 Great Path, Manchester, Connecticut. **Compliance with Condition No. 3.**

Dear Kristen Grillo:

The Connecticut Siting Council (Council) is in receipt of correspondence dated June 4, 2024 that includes a Landscaping Plan for the replacement of two trees, in compliance with Condition No. 3 of the Council's Declaratory Ruling of May 26, 2023 for the above-referenced facility.

The Council acknowledges that Condition No. 3 has been satisfied. This acknowledgment applies only to the condition satisfied by the June 4, 2024 correspondence.

Please be advised that deviations from the standards established by the Council in the Declaratory Ruling are enforceable under the provisions of Connecticut General Statutes §16-50u.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman Executive Director

c: Service List, dated March 23, 2023

MAB/IN/dll



June 4th, 2024

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

RE: PETITION NO. 1563 - 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 250-kilowatt fuel cell facility and associated equipment to be located at Manchester Community College, 14 Great Path, Manchester, Connecticut.

Dear Ms. Bachman:

At a public meeting held on May 25, 2023, the Connecticut Siting Council (Council) considered and ruled that the above-referenced proposal meets air and water quality standards of the Department of Energy and Environmental Protection and would not have a substantial adverse environmental effect, with certain conditions.

As requested per condition #3 of the declaratory ruling, we are providing the Council with a Landscape detail for the replacement of two trees (Attachment 1).

If you or members of the Council should have any questions or require additional information, please let us know. Thank you for your time.

Respectfully.

Kristen Grillo

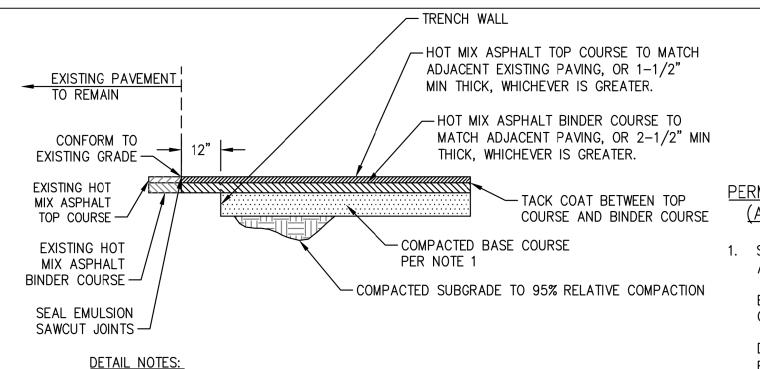
Senior Permitting Specialist | East Coast Field Office Customer Installations Group | North America

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Kristen.Grillo@bloomenergy.com







- 1. BASE COURSE SHALL BE CLASS 2 AGGREGATE BASE (3/4" MAX) COMPACTED TO 95% RELATIVE COMPACTION. THICKNESS SHALL MATCH EXISTING THICKNESS OR 6", WHICHEVER IS GREATER.
- 2. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN CONFORMANCE WITH SPECIFICATION SET FORTH BY NATIONAL, STATE, AND LOCAL CODES

ASPHALT RESTORATION/ ASPHALT PAVING

SCALE: NTS

4" SCREENED **TOPSOIL**

1. ALL DISTURBED LANDSCAPE AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE PERMANENT LANDSCAPE RESTORATION AND RESEEDING SPECIFICATIONS ON THIS SHEET.

PERMANENT LANDSCAPE RESTORATION AND RESEEDING SPECIFICATIONS (AFTER CONSTRUCTION)

- 1. SITE PREPARATION
- A. BRING AREA TO BE SEEDED TO REQUIRED GRADE. A MINIMUM OF 4" OF TOPSOIL IS
- PREPARE SEEDED BY LOOSENING SOIL TO A DEPTH OF 4 INCHES. REMOVE ALL STONES OVER 1 INCH IN DIAMETER, STICKS AND FOREIGN MATTER FROM
- THE SURFACE. D. LIME TO PH OF 6.5.

SMOOTH AND FIRM THE SEEDED.

- FERTILIZER: USE 5-10-5 (NPK) OR EQUIVALENT. APPLY AT RATE OF 4 LBS/1000 SF. INCORPORATE LIME AND FÈRTILIZER IN THE TOP 4 INCHES OF TOPSOIL
- 2. SEE MIXTURE FOR USE ON LAWN AREA: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY AND CONFORMING TO FEDERAL AND STATE STANDARDS.

SUN AND PARTIAL SHADE: AMOUNT BY: MINIMUM% PURITY **GERMINATION** <u>WEIGHT SPECIES OR VARIETY</u> 50% KENTUCKY BLUE GRASS* 95% 80% 20% PERENNIAL RYE 98% 90% 30% CREEPING RED FESCUE 97% 85%

LAWN SEED MIX: (APPLY AT RATE OF 5 TO 6LBS PER 1000SF)

*MINIMUM 2 (EQUAL PROPORTIONS) VARIETIES AS LISTED IN CORNELL RECOMMENDATIONS FOR TURFGRASS.

SUN AND PARTIAL SHADE:

AMOUNT BY:	MINIMUM%	
WEIGHT SPECIES OR VARIETY	PURITY	GERMINATION
50% KENTUCKY BLUE GRASS**	95%	80%
20% PERENNIAL RYE	98%	90%
35% CREEPING RED FESCUE	97%	85%
20% CREEPING RED FESCUE	97%	85%
100%		

FROM AUGUST 15TH TO OCTOBER 15TH.

- **SHADE TOLERANT VARIETY
- SEEDING A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT
- RATE INDICATED. B. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY ONE OF THE FOLLOWING **METHODS:**
- A UNIFORM BLANKET OF STRAW APPLIED AT A RATE OF 2 TONS/ACRE MIN., TO BE APPLIED ONCE SEEDING IS COMPLETE. WOOD FIBER CELLULOSE APPLIED WITH SEED MIX BY HYDROSEEDER AT RATE OF

PROVIDE REMOVABLE

INSULATION AT GAPS

AROUND ELASTOMATIC

SEAL AND FIXED PIPE

INSULATION (TYP.

MASONRY/CMU WALL

PIPE INSULATION

(WHERE REQUIRED)-

SHEETMETAL ANGLE

RING (MIN.22 GA.)

SECURE TO SLEEVÉ-

FIBERGLASS ROPE

(1000') MIN. 3

WRAPS REQUIRED -

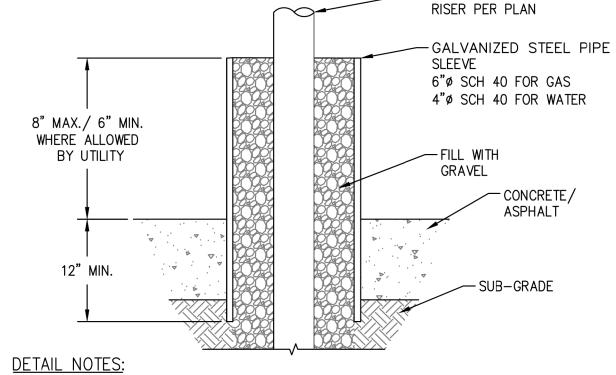
EXISTING

METAL STUD-

BOTH SIDES) -

FIBROUS GLASS

- 2,000 LBS/ACRE. C. ALL SEEDED SLOPES 3:1 OR GRATER SHALL BE PROTECTED FROM EROSION WITH JUTE
- MESH OR APPROVED EQUAL. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT NOT TO DISLODGE PLANTING SOIL. UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH AND



1. RISER COLLAR SHALL BE REQUIRED AT ALL LOCATIONS WHERE NEW VERTICAL GAS/WATER PIPING PENETRATES NEW OR EXISTING CONCRETE OR ASPHALT.

PROVIDE REMOVABLE FIBROUS

GLASS INSULATION AT GAPS

AROUND ELASTOMATIC SEAL

AND FIXED PIPE INSULATION

(TYP. BOTH SIDES) -

EXISTING POURED

FIBROUS GLASS

PROVIDE REMOVABLE

INSULATION AT GAPS AROUND ELASTOMATIC

SEAL AND FIXED PIPE

INSULATION (TYP.

BOTH SIDES) -

EXISTING PRECAST

1. CONTRACTOR SHALL CONDUCT TESTS TO IDENTIFY THE LOCATION OF EXISTING REBAR IN CONCRETE/ OR CMU WALLS. CONTRACTOR SHALL SUBMIT THE TEST RESULT AND

PROPOSED WALL PENETRATION LOCATION TO THE ENGINEER OF RECORD PRIOR TO ANY WALL PENETRATION AND PRIOR TO CUTTING ANY EXISTING REBAR IN WALL.

CONCRETE WALL

CONCRETE OR

TILT-UP WALL

CONCRETE WALL

PRECAST WALL

C3.1

GAS AND WATER RISER COLLAR SCALE: NTS

-LINK-SEAL TYPE WALL

- PIPE INSULATION

WHERE ESCUTCHEON

EXPOSED

-SHEET METAL

(MIN. 22 GAUGE)

EXISTING DRYWALL

FIRE RATING OF PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED.

WALL PENETRATION

SLEEVE

PARTITION

CONTRACTOR SHALL PROVIDE FIRE STOP SEALANT AT ALL WALL PENETRATIONS PER LOCAL CODE.

PLATE ON PIPING IS

(WHERE REQUIRED)

PENETRATION SEAL

(3 REQUIRED)

MASONRY/CMU

METAL STUD WALL

— LINK—SEAL TYPE WALL

- PIPE INSULATION

-LINK-SEAL TYPE WALL

— PIPE INSULATION

(WHERE REQUIRED)

PENETRATION SEAL

(3 REQUIRED)

(WHERE REQUIRED)

PENETRATION SEAL

(3 REQUIRED)

- DETECTABLE WARNING ,— RESTORATION AS REQUIRED TO TAPE AT 12" BELOW / \TRENCH MATCH EXISTING GRADE (TYP.) リSIDE SLOPES MATERIAL 4 , SURFACE. PROVIDED 6" MIN. NM/ AND BACKFILL. SEE COMMUNICATION -DRAWING E1.1 LINE -GAS LINE NATIVE SOIL -- WATER LINE

	MINIMUM BURIAL DEPTHS AND CLEARANCES TABLE				
UTILITY	MINIMUM BURIAL DEPTH	MINIMUM HORIZONTAL DISTANCE TO LIKE UTILITY	MINIMUM HORIZONTAL DISTANCE TO DIFFERING UTILITY	MINIMUM VERTICAL DISTANCE TO LIKE UTILITY	VERTICAL DISTANCE TO DIFFERING UTILITY
COMMUNICATION	24"	6"	12"	3"	12"
GAS	24"	6"	12"	6"	12"
NA TED	"	- "	4.0"	o #	"

UTILITY TRENCH EXCAVATION SPACING & BACKFILL DETAIL SCALE: 3/4" = 1'-0"

DETAIL NOTES

SCALE: NTS

CONTRACTOR SHALL HIRE A THIRD PARTY SOILS INSPECTION AND TESTING AGENCY TO ASSURE COMPLIANCE OF MATERIALS AND PLACEMENT PROCEDURES WITH DESIGN DRAWINGS, SPECIFICATIONS, GEOTECHNICAL REPORT PREPARED BY WHITESTONE ASSOCIATES DATED JULY 28, 2023, AND LOCAL CODES. WORK SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:

ANDSCAPE RESTORATION

- -PHOTOGRAPH EXCAVATION BOTTOM
- -VERIFY SOIL SUITABILITY
- -VERIFY AND REPORT COMPACTION
- -SUBMIT INSPECTION REPORTS DATED AND SIGNED BY TESTING AGENCY
- 2. TESTING SERVICE DOCUMENTATION SHALL INCLUDE THE FOLLOWING
 - -DAILY RECORDS AND REPORT
 - -TESTING RECORDS AND DATA SHEETS
 - -PHOTOGRAPHIC RECORDS
 - -FINAL REPORT
- ALL RECORDS SHALL AT A MINIMUM BEAR THE PROJECT NAME, LOCATION, DATE, WRITTEN DESCRIPTION OF VISUAL OBSERVATIONS, AND SIGNATURE OF PREPARED OR DESIGNATED AUTHORITY
- 3. ALL CLEARANCES ARE EDGE TO EDGE AND NOT CENTER TO CENTER.
- 4. ANY DEVIATION FROM HORIZONTAL OR VERTICAL UTILITY SEPARATION DISTANCES TO ACCOMMODATE FIELD CONDITIONS SHALL BE SUBMITTED BY THE CONTRACTOR TO BLOOM ENERGY FOR APPROVAL PRIOR TO UTILITY PLACEMEN

DETAIL REFERENCE NOTES

- TRENCH SHALL BE EXCAVATED AND PROTECTED PER OSHA STANDARD 1926 SUBPART P. OPEN TRENCHES SHALL NOT EXCEED OSHA MAXIMUM SIDE SLOPES. CONTRACTOR TO SHORE AND PROTECT ALL VERTICAL EXCAVATIONS AS REQUIRED BY OSHA. TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT.
- $\widehat{(2)}$ TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT BACKFILL
- (3) BEDDING MATERIALS SHALL BE PLACED IN 6" MAXIMUM LIFTS AND MATCH ADJACENT DUCT BANK BEDDING MATERIALS WHERE APPLICABLE. ACCEPTABLE BEDDING GRADATIONS ARE:
 - a. 3/4" MAXIMUM AGGREGATE BASE [CALTRANS CLASS II EDN-2].
 - b. ASTM C-33-FINE CONCRETE AGGREGATE (WELL GRADED SAND).
 - c. ASTM C-33-GRADATION NO. 67 OR NO. 7.

REINFORCED CORNERS -

MANAGABLE 2 FOOT CONTAINMENT AREA -

PROTECTION AS REQUIRED.

STORM DRAIN PROTECTION

- d. GRADATIONS SIMILAR TO WELL GRADED FINE ROAD BASE MATERIAL, ASTM D-1241 GRADATION C AND D.
- (4) BACKFILL MATERIALS SHALL CONSIST OF CLEAN, RELATIVELY WELL GRADED SAND OR GRAVEL WITH A MAXIMUM PARTICLE SIZE OF THREE INCHES AND UP TO 15 PERCENT OF MATERIAL FINER THAN A #200 SIEVE. THE MATERIAL SHOULD BE FREE OF CLAY LUMPS, ORGANICS, AND DELETERIOUS MATERIAL. ANY IMPORTED STRUCTURAL FILL MATERIAL SHOULD BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO THE SITE. ALL FILL AND BACKFILL SHOULD BE PLACED IN MAXIMUM EIGHT-INCH LOOSE LIFTS AND COMPACTED TO 95 PERCENT OF THE MAXIMUM DRY DENSITY WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D

-STORM SEWER

-LIFT STRAPS

OVERFLOW

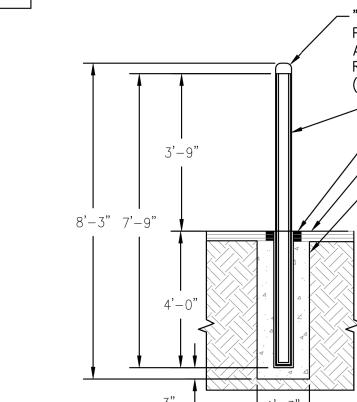
PORTS

— DUMPING STRAPS

— STORM INLET

(5) IF THE BOTTOM OF THE TRENCH IS SOFT AND COMPACTION CANNOT BE ACHIEVED, CONTRACTOR TO CONTACT GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION RECOMMENDATIONS.

> THE SPECIFIED INLET PROTECTION CAN BE SUPPLIED IN A VARIETY OF SIZES. CONTRACTOR TO SELECT THE APPROPRIATE DRAINAGE INLET



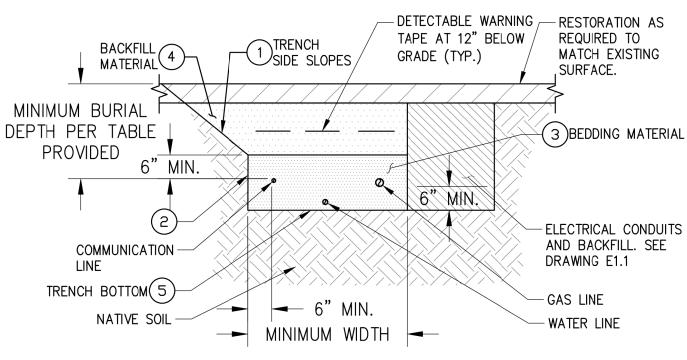
CONCRETE FOUNDATIONS ARE MINIMUM REQUIREMENTS. LOCAL

BOLLARD - FIXED

"IDEAL SHIELD" #BPD-BLACK-04-52-S, BUMPER POST SLEEVE - BLACK. SLEEVE CUT TO LENGTH AND INSTALLED PER MANUFACTURER'S RECOMMENDATION. SECURE SLEEVE TO POST WITH (1) SELF-TAPPING FASTENER AT BOTTOM. -4" DIAMETER CONCRETE-FILLED SCHEDULE 40 HOT DIPPED GALVANIZED STEEL PIPE -1/2" ELASTOMERIC EXPANSION MATERIAL AT PERIMETER - REPLACE TO MATCH EXISTING - 3000 PSI CONCRETE FOOTING

SCALE: NTS

BUILDING CODES OR FROST LINE MAY REQUIRE GREATER DEPTH.



WATER | 54" | 6" | 12" | 6" | 12"

-GAS AND WATER

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Digitally signed by Carson Turner DN: CN=Carson Carson Turner Turner

Date: 2023.11.19 12:10:45-08'00'

CUSTOMER SITE

MANCHESTER COMMUNITY COLLEGE 14 GREAT PATH MANCHESTER, CT 06040



	RELEASE HISTORY	1
REV	ISSUE PURPOSE	DATE
-	INITIAL RELEASE	11/17/2023
	1	

DESIGNED BY REVIEWED BY KATE TAYLOR SCOTT BARD DRAWN BY APPROVED BY LAKSHMI SRINIVAS CARSON TURNER

SHEET TITLE

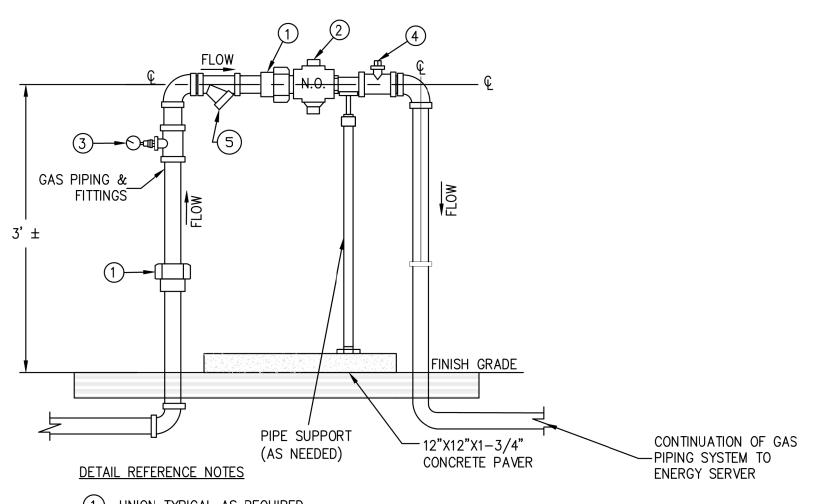
SITE DETAILS 1

DRAWING NUMBER

BLOOM ENERGY DOCUMENT NUMBER DOC-1015259

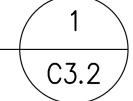
THIS DRAWING IS 24" X 36" AT FULL SIZE

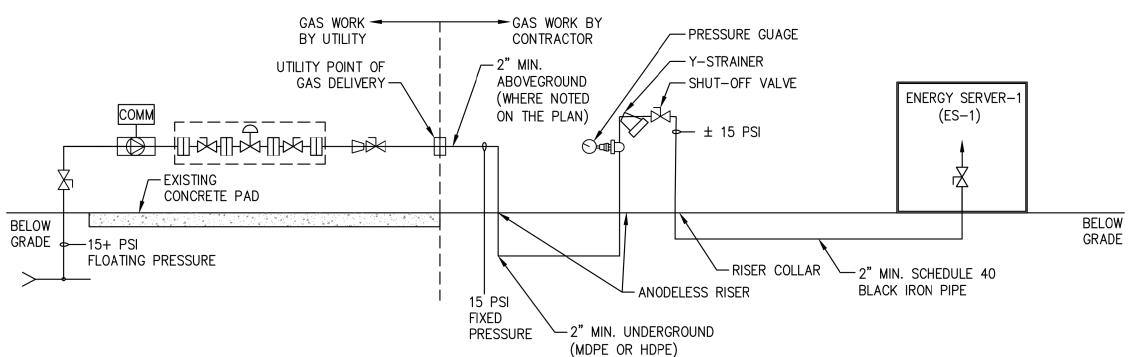
SITE ID: CTU007.0 SHEET 06 OF 15



- (1) UNION TYPICAL AS REQUIRED.
- (2) SHUT OFF VALVE MUELLER H-11118 BLACK IRON AND TAMPER PROOF OR EQUAL
- (3) 30 PSI PRESSURE GAUGE AND SHUT-OFF VALVE
- (4) BY-PASS TEE WITH PLUG UTILITY.
- (5) Y-STRAINER: KECKLEY SSB-7#40 MESH SCREEN OR EQUIV.

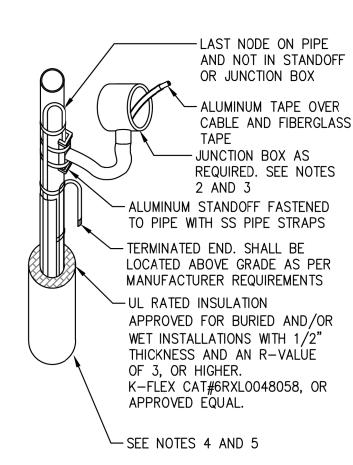
GAS SHUTOFF VALVE





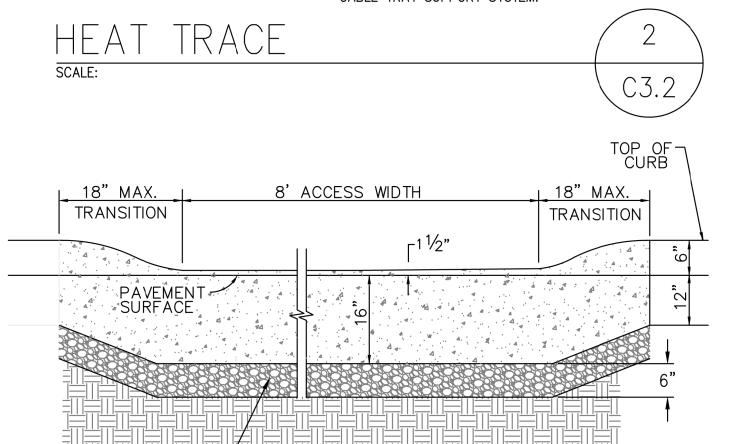
DETAIL NOTES:

- 1. ALL GAS PIPING IS SIZED IN ACCORDANCE WITH NATIONAL FUEL GAS CODE. IT IS THE RESPONSIBILITY OF THE PIPING CONTRACTOR TO INSTALL SAID PIPING SYSTEM IN ACCORDANCE WITH THE GAS CODE AND ACCEPTABLE PIPING PRACTICES. THIS DRAWING DOES NOT EXCUSE THE CONTRACTOR FROM INSTALLATION PER APPLICABLE BUILDING CODES OR MANUFACTURER REQUIREMENTS. IN THE EVENT OF A DISCREPANCY, CONTRACTOR SHALL NOTIFY BLOOM ENERGY
- CONTRACTOR SHALL ENSURE ANODELESS RISERS ARE INSTALLED IN COMPLIANCE WITH THE MANUFACTURE'S REQUIRED MAXIMUM AND MINIMUM BURIAL DEPTHS.
- 3. ANODELESS RISERS SHALL CONFORM TO ASTMD2513 AND USDOT 1921.281, 192.283, 192.375. ANODELESS RISERS SHALL BE CSA AND IAMPO/UPC LISTED.
- 4. ALL ABOVE GROUND GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL, ASTM A53 TYPE E, WITH THREADED OR FLANGED JOINTS. UNDERGROUND GAS PIPE SHALL BE MDPE OR HDPE.
- 5. THE USE OF NATURAL GAS AS A FUEL SYSTEM CLEANING MEDIUM DURING FUEL CELL CONSTRUCTION, INSTALLATION OR MODIFICATION IS PROHIBITED. CONTRACTOR IS PROHIBITED FROM USING PIPELINE GAS AND SHALL PURGE SYSTEM WITH "INERT NITROGEN GAS". TESTING AND PURGING FOR NEW GAS PIPING SHALL COMPLY WITH NFPA 56 AND SHALL BE WITNESSED BY AN OSFM REPRESENTATIVE.
- CONTRACTOR SHALL PROVIDE PRIVATE GPR MARK-OUT NO MORE THAN 2 WEEKS PRIOR TO GAS UTILITY INSTALLING GAS SERVICE PIPING. CONTRACTOR SHALL COORDINATE TIMING WITH BLOOM ENERGY GAS UTILITY SPECIALIST.
- 7. CONTRACTOR'S RESPONSIBILITY TO SUPPORT GAS TURN ON WITH A GAS SNIFFER CAPABLE OF PROVIDING A PERCENTAGE OF GAS READING OF 95% VOLUME (NOT UEL OR LEL.)
- 8. ALL ABOVE GROUND GAS PIPING SHALL BE PROTECTED FROM CORROSION BY APPROVED COATING OR WRAPPING.
- 9. ALL NEW GAS LINES FROM METER TO ENERGY SERVER TO BE INSPECTED BY OSFM PRIOR TO BURRYING.
- 10. ALL NEW GAS LINES FROM METER TO ENERGY SERVER TO BE PRESSURE TESTED AND PURGED PER CODE AND OSFM TO WITNESS SUCH TESTING PRIOR TO CONNECTION TO SERVER.



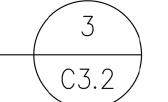
DETAIL NOTES:

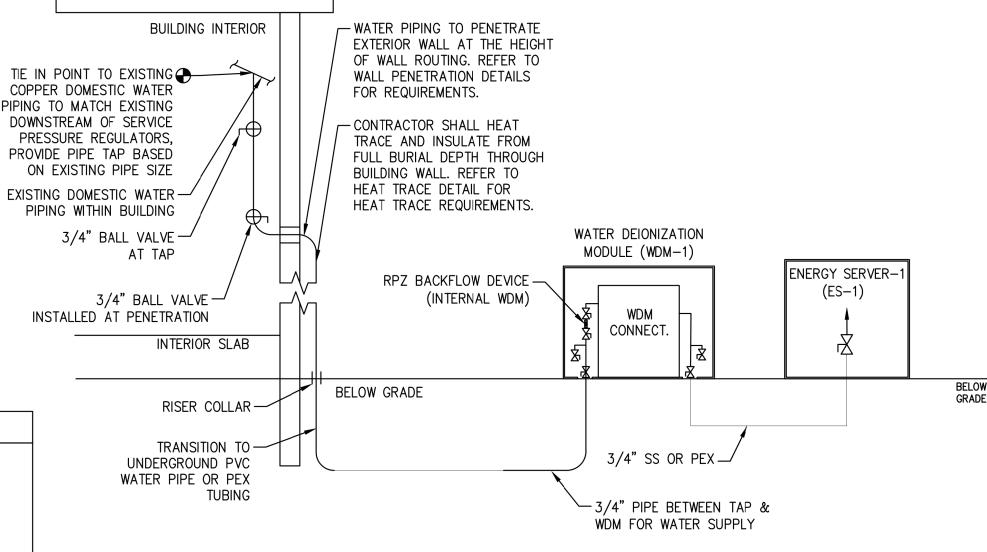
- 1. CONTRACTOR SHALL PROVIDE HEAT TRACE ON ALL EXTERIOR WATER PIPING INSTALLED ABOVE THE FROST LINE 54" DEPTH). WHERE INSTALLATIONS HAVE NEW WATER PIPING PENETRATING EXTERIOR FACILITY WALLS, HEAT TRACE SHALL BE EXTENDED 18" INTO THE BUILDING. HEAT TRACE FOR BLOOM ENERGY SERVER PAD PLUMBING SHALL BE OFCI, ENSURE HEAT TRACE IS PROVIDED AT WATER JUMPER BETWEEN BLOOM ENERGY SERVER PLUMBING AND CONTRACTOR PROVIDED PLUMBING. FOR STUB-UP LOCATIONS, PROVIDE ADEQUATE EXTRA LENGTH OF HEAT TRACE TO PROPERLY HEAT TRACE ANY VALVES AND OVERLAP WITH BLOOM PROVIDED HEAT TRACE INSIDE BLOOM PROVIDED EQUIPMENT. CONTRACTOR SHALL HEAT TRACE AND INSULATE PIPE FROM FULL BURIAL DEPTH THROUGH BUILDING WALL WITH SELF REGULATING HEAT TRACE, OUTDOOR RATED, 5 WATTS/FT., 120VAC, RAYCHEM 5BTV-CT/CR OR EQUAL
- JUNCTION BOX SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR AT ENDS OF HEAT TRACE LINES THAT TERMINATE AT A POWER SOURCE, COORDINATE MOUNTING REQUIREMENTS IN THE FIELD. JUNCTION BOX AT ENERGY SERVER SHALL BE OFCI AND MOUNTED WITH SELF TAPPING SCREWS.
- 3. IN WDM, THE HEAT TRACE LINE SHALL LAND DIRECTLY AT CABLE GLAND, ALLOW 10' ADDITIONAL HEAT TRACE LENGTH AT WDM INLET AND OUTLET TO COVER ALL WDM PIPING AND LENGTH TO TERMINATION AT CABLE GLAND.
- 4. FURNISH AND INSTALL 4" SCH. 80 PVC JACKET FILL WITH ¾" STONE FOR DRAINAGE FOR HAET TRACE INSTALLED FROM THE FROST LINE TO 6" ABOVE GRADE. JACKET SHALL EXTEND BEYOND HEAT TRACE TO FULL WATER PIPE BURIAL DEPTH. PVC JACKET SHALL NOT BE PROVIDED AT STUB UP TO ENERGY SERVER WATER CONNECTION WHEREVER SERVER IS PLACED ON CONCRETE PAD.
- 5. WHERE HEAT TRACE IS INSTALLED BEYOND 6" ABOVE GRADE AND EXPOSED TO THE ELEMENTS (NOT WITHIN EQUIPMENT) NOR ALONG CABLE TRAY SUPPORT SYSTEM SHALL BE PROVIDED WITH ALUMINUM ROLL JACKETING FOR PROTECTION.
- 6. FURNISH AND INSTALL PVC JACKET, SIZED TO COVER HEAT TRACE AND INSULATION, FOR HEAT TRACE INSTALLED ON WATER LINES ALONG CABLE TRAY. SECURE PVC JACKET TO CABLE TRAY SUPPORT SYSTEM.



DEPRESSED CURB DETAIL

COMPACTED GRAVEL BASE



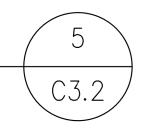


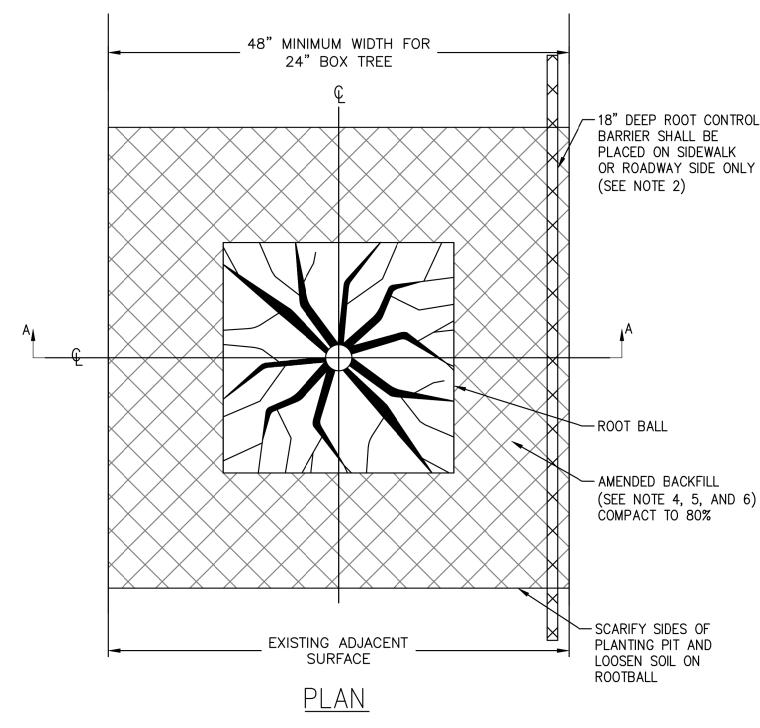
DETAIL NOTES:

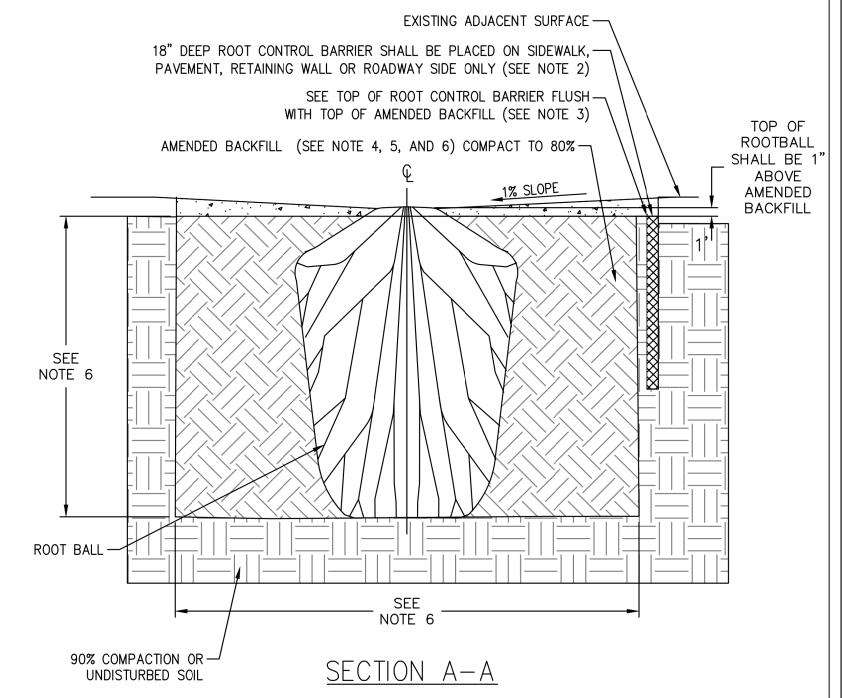
- 1. BELOW GRADE: STAINLESS STEEL, COPPER, PEX, OR CPVC SHALL BE PERMITTED BETWEEN FACILITY AND WDM. BETWEEN WDM AND FUEL CELL MODULES ONLY STAINLESS STEEL, AND CPVC WITH STAINLESS STEEL
- PROVIDE INSULATION FOR ALL WATER PIPES ON EXTERIOR OF BUILDING AND ABOVE GRADE. 3. REFER TO HEAT TRACE DETAIL FOR HEAT TRACE REQUIREMENTS.
- 4. WHERE FACILITY WATER PRESSURE EXCEEDS 150PSI A PRESSURE REGULATOR MUST BE PROVIDED AND
- INSTALLED BETWEEN THE POINT OF FACILITY CONNECTION AND THE WDM.
- 5. IF EXISTING PIPE IS LESS THAN 3/4" APPROVAL IS REQUIRED FROM BLOOM ENERGY

WATER RISER DIAGRAM

SCALE: NTS







PROPOSED TREES BE EASTERN WHITE PINE.

- ROOT CONTROL BARRIER SHALL BE FABRICATION FROM A HIGH DENSITY AND HIGH IMPACT PLASTIC SUCH AS POLYVINYL CHLORIDE, ABS OR POLYETHYLENE AND HAVE A MINIMUM THICKNESS OF 0.06 INCH. THE PLASTIC SHALL HAVE 1/2-INCH HIGH RAISED VERTICAL RIBS ON THE INNER SURFACE SPACED NOT MORE THAT 8 INCHES APART, AND SHALL BE 18"
- THE TOP OF THE ROOT CONTROL BARRIER SHALL BE SET FLUSH WITH TOP AMENDED
- AMENDED BACKFILL SHALL CONSIST OF A PREPARED SOIL MIX WITH 50% ON-SITE SOIL AND 50% TYPE 1,2 OR 3 ORGANIC SOIL AMENDMENT, COMPACT AMENDED BACKFILL TO 80% RELATIVE COMPACTION.
- AFTER PLANTING, EACH THREE/BUSH SHALL BE WATERED IMMEDIATELY WITH 10 TO 20 GALLONS OF WATER AS NEEDED. REPEAT THE WATERING TWICE IN THE NEXT 3 DAYS; ALLOW TIME FOR WATER TO BE ABSORBED INTO THE SOIL, BY NOT WATERING TWICE IN THE SAME 24 HOUR PERIOD.
- HOLE WIDTH SHALL BE 2.5 TIMES THE DIAMETER OF THE TREE'S/BUSH'S ROOT BALL. DEPTH OF THE HOLE SHALL BE 2 INCHES LESS THAN THE HEIGHT OF THE TREE'S/BUSH'S ROOT BALL. SLOPE THE SIDES OF THE HOLE SO THE TOP OF THE HOLE IS SEVERAL INCHES WIDER THAN THE BOTTOM.
- 7. ALL TREES/BUSHES AND GROUNDCOVER SHALL BE GUARANTEED BY THE CONTRACTOR AS TO GROWTH AND HEALTH FOR A PERIOD OF NINETY (90) DAYS AFTER COMPLETION OF THE SPECIFIED MAINTENANCE PERIOD AND/OR FINAL ACCEPTANCE BY THE ENGINEER UNLESS OTHERWISE SPECIFIED IN THE MAINTENANCE AGREEMENT WITH OWNER. ALL TREES UP TO 60 BOX SIZE SHALL BE GUARANTEED BY THE CONTRACTOR TO LIVE AND GROW IN AN ACCEPTABLE UPRIGHT POSITION FOR A PERIOD OF ONE YEAR.



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



Digitally signed by Carson Turner Carson Turner DN: CN=Carson

Date: 2023.11.19 12:10:53-08'00'

CUSTOMER SITE

MANCHESTER COMMUNITY COLLEGE 14 GREAT PATH MANCHESTER, CT 06040



	DELEASE LUCTORY				
	RELEASE HISTORY				
REV	ISSUE PURPOSE	DATE			
_	INITIAL RELEASE	11/17/2023			
DECICNED DV DEVIEWED DV					

DESIGNED BY	REVIEWED BY
SCOTT BARD	KATE TAYLOR
DRAWN BY	APPROVED BY
LAKSHMI SRINIVAS	CARSON TURNER

SHEET TITLE

SITE DETAILS 2

DRAWING NUMBER

BLOOM ENERGY DOCUMENT NUMBER

THIS DRAWING IS 24" X 36" AT FULL SIZE SITE ID: CTU007.0 SHEET 07 OF 15

GAS RISER — FIXED DELIVERY SCALE: NTS

C3.2

<u>LEGEND</u>

GAS REGULATOR

GAS METER

SHUT OFF VALVE

→ PRESSURE INDICATION

PRESSURE GAUGE AND

Y-STRAINER: KECKLY SSB-7#40 MESH SCREEN OR EQUIC

SHUT-OFF VALVE