



STATE OF CONNECTICUT  
*CONNECTICUT SITING COUNCIL*

Ten Franklin Square, New Britain, CT 06051

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Web Site: [portal.ct.gov/csc](http://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](mailto: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,

A handwritten signature in dark ink, appearing to read "Melanie A. Bachman".

Melanie A. Bachman  
Executive Director

c: Service List, dated March 23, 2023

MAB/IN/dll

# What Powers You

June 4<sup>th</sup>, 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.

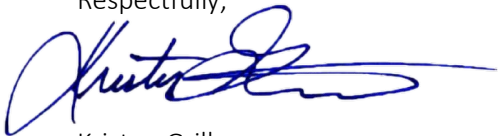
Dear Ms. Bachman:

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,

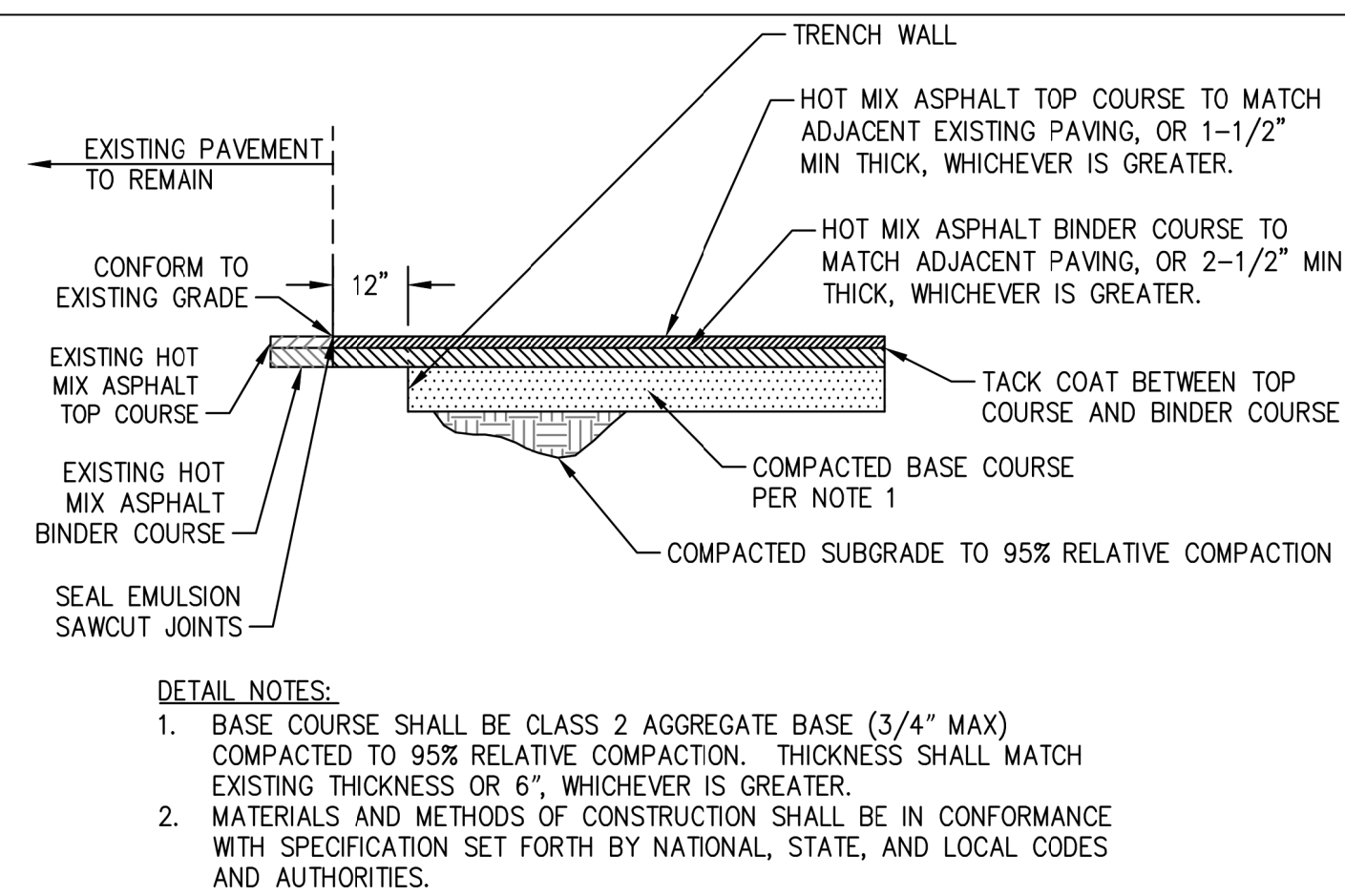


Kristen Grillo  
**Senior Permitting Specialist | East Coast Field Office**  
Customer Installations Group | North America  
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[Kristen.Grillo@bloomenergy.com](mailto:Kristen.Grillo@bloomenergy.com)



Bloom Energy Corporation  
4353 North First Street, San Jose, CA 95134  
**408 543 1500**  
[www.bloomenergy.com](http://www.bloomenergy.com)

**Attachment #1: Site Plan Landscape Detail**



## ASPHALT RESTORATION / ASPHALT PAVING

SCALE: NTS

1  
C3.1

### PERMANENT LANDSCAPE RESTORATION AND RESEEDING SPECIFICATIONS (AFTER CONSTRUCTION)

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

**SUN AND PARTIAL SHADE:**

AMOUNT BY WEIGHT SPECIES OR VARIETY	MINIMUM% 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%		

\*\*SHADE TOLERANT VARIETY

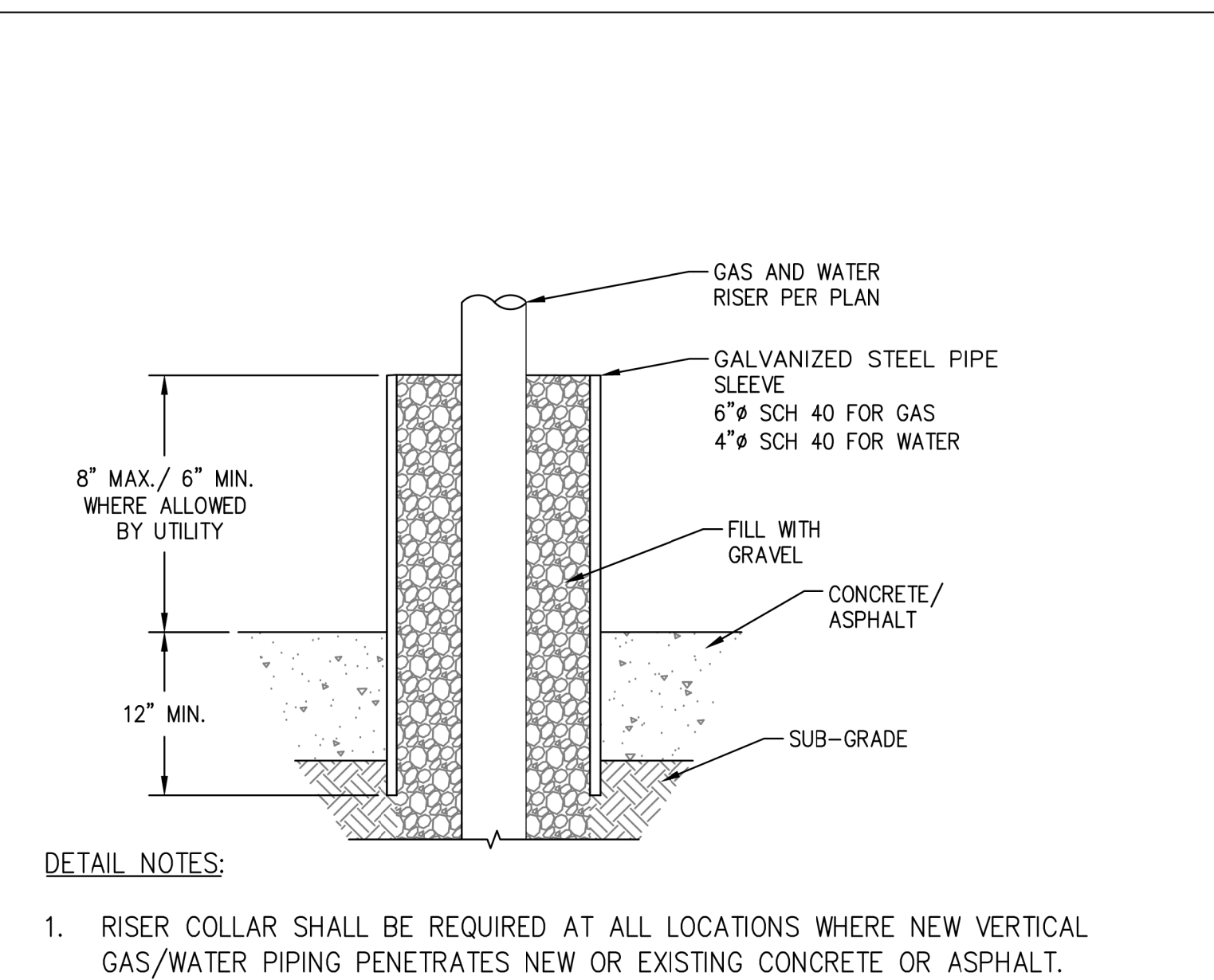
3. SEEDING

- APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.
- 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 2,000 LBS/ACRE.
- 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 DISLUDGE PLANTING SOIL.
- UNLESS OTHERWISE DIRECTED IN WRITING, SEED FROM MARCH 15TH TO JUNE 15TH AND FROM AUGUST 15TH TO OCTOBER 15TH.

## LANDSCAPE RESTORATION

SCALE: NTS

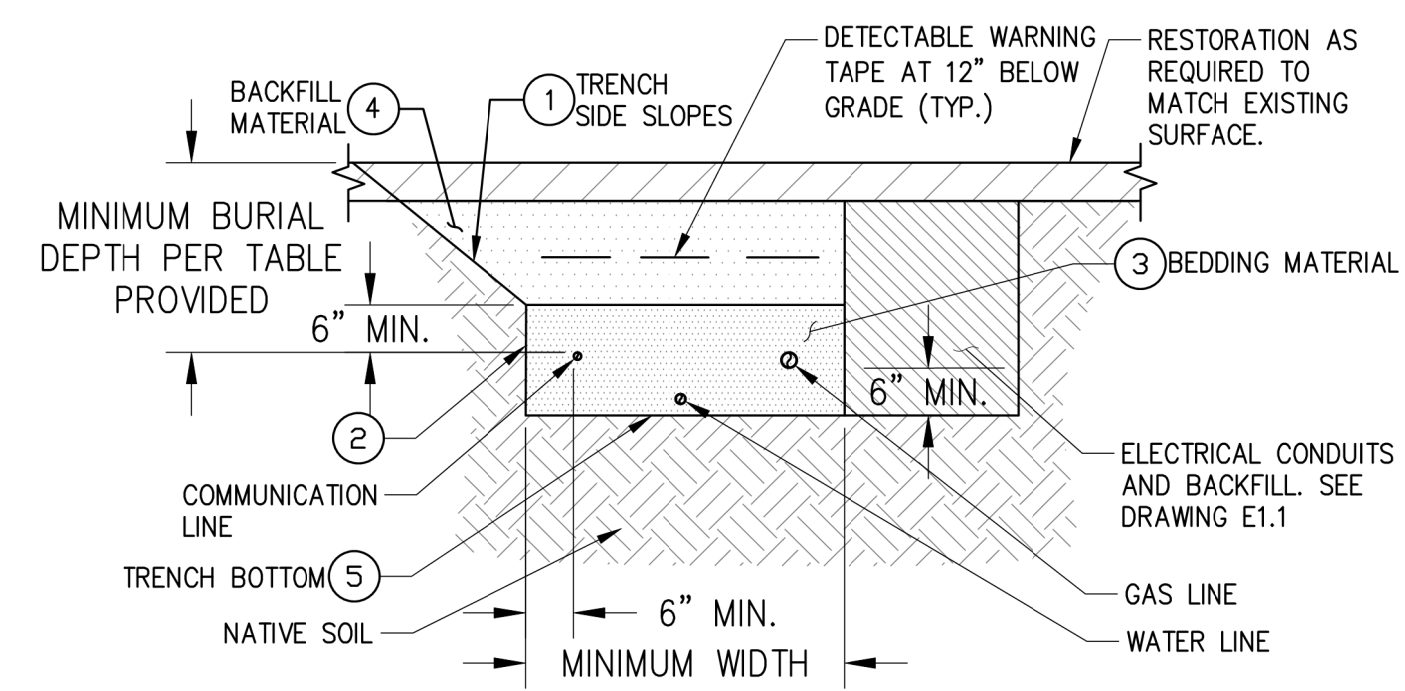
2  
C3.1



## GAS AND WATER RISER COLLAR

SCALE: NTS

7  
C3.1



## UTILITY TRENCH EXCAVATION SPACING & BACKFILL DETAIL

SCALE: 3/4" = 1'-0"

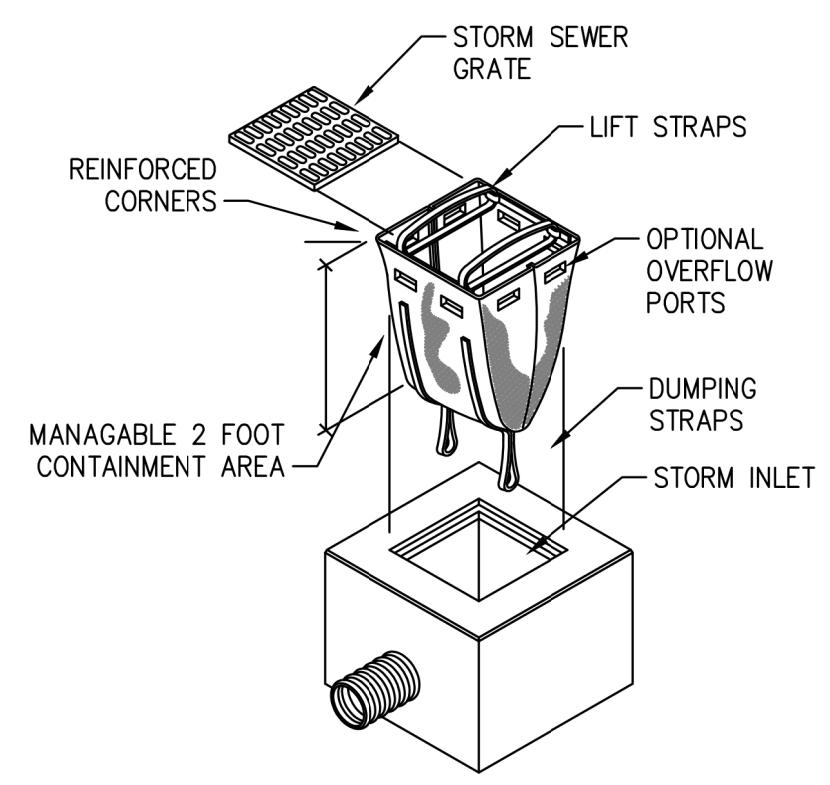
3  
C3.1

### DETAIL NOTES

- 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 WHITSTONE ASSOCIATES DATED JULY 28, 2023, AND LOCAL CODES. WORK SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
  - PHOTOGRAPH EXCAVATION BOTTOM
  - VERIFY SOIL SUITABILITY
  - VERIFY AND REPORT COMPACTION
  - SUBMIT INSPECTION REPORTS DATED AND SIGNED BY TESTING AGENCY
- 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.
- ALL CLEARANCES ARE EDGE TO EDGE AND NOT CENTER TO CENTER.
- 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 PLACEMENT.

### DETAIL REFERENCE NOTES

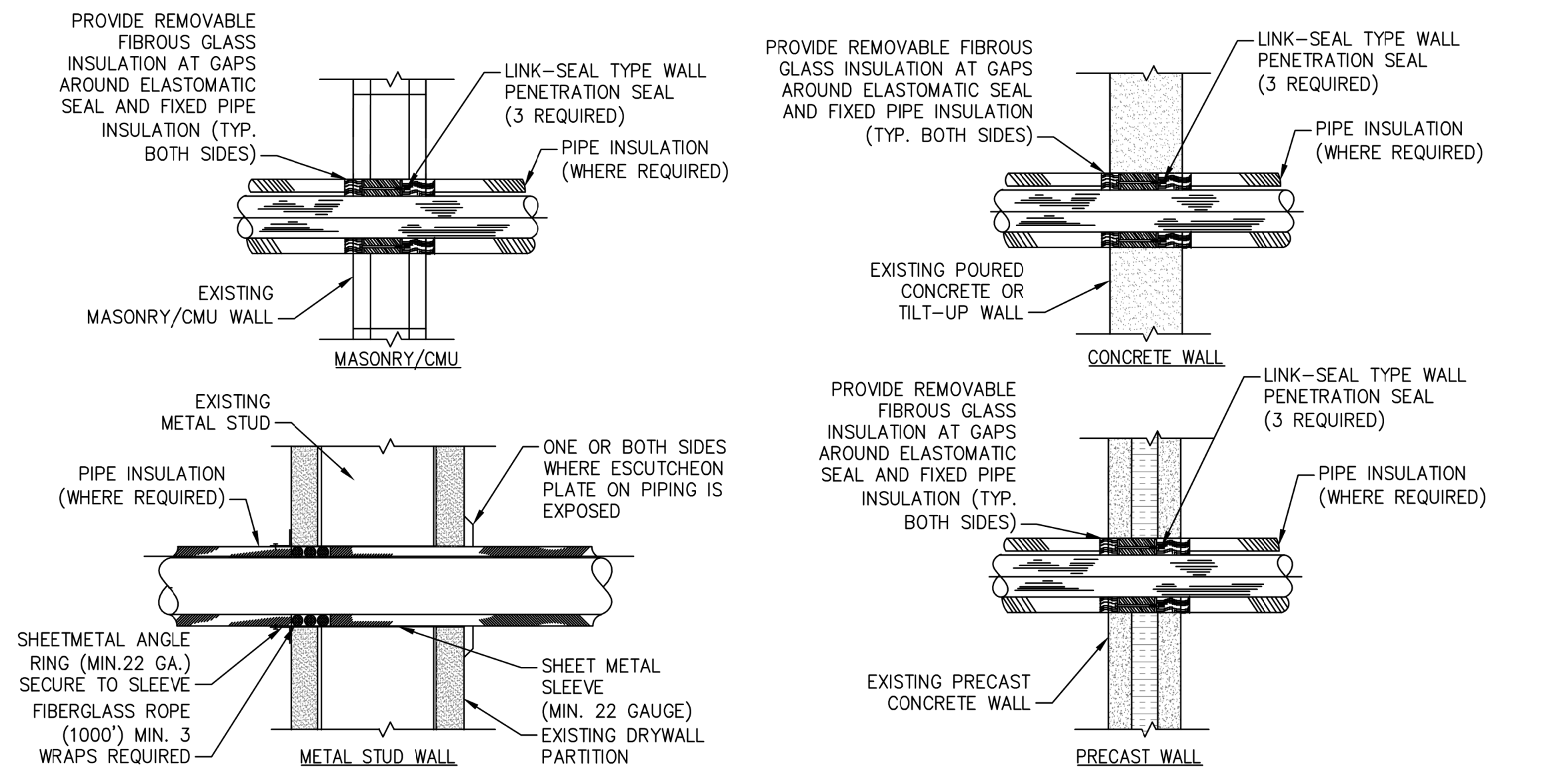
- TRENCH SHALL BE EXCAVATED AND PROTECTED PER OSHA STANDARD 1926 SUBPART P. OPEN TRENCHES SHALL NOT EXCEED OSHA MAXIMUM SIDE SLOPES. CONTRACTOR TO SHORE AND PROTECT ALL VERTICAL EXCAVATIONS AS REQUIRED BY OSHA. TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT.
- TRENCH WALLS SHALL BE VERTICAL FROM BOTTOM OF EXCAVATION TO TOP OF PIPE OR CONDUIT BACKFILL.
- BEDDING MATERIALS SHALL BE PLACED IN 6" MAXIMUM LIFTS AND MATCH ADJACENT DUCT BANK BEDDING MATERIALS WHERE APPLICABLE. ACCEPTABLE BEDDING GRADATIONS ARE:
  - 3/4" MAXIMUM AGGREGATE BASE [CALTRANS CLASS II EDN-2].
  - ASTM C-33-FINE CONCRETE AGGREGATE (WELL GRADED SAND).
  - ASTM C-33-GRADATION NO. 67 OR NO. 7.
  - GRADATIONS SIMILAR TO WELL GRADED FINE ROAD BASE MATERIAL, ASTM D-1241 GRADATION C AND D.
- 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 1557 (MODIFIED PROCTOR).
- IF THE BOTTOM OF THE TRENCH IS SOFT AND COMPACTION CANNOT BE ACHIEVED, CONTRACTOR TO CONTACT GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION RECOMMENDATIONS.



## STORM DRAIN PROTECTION

SCALE:

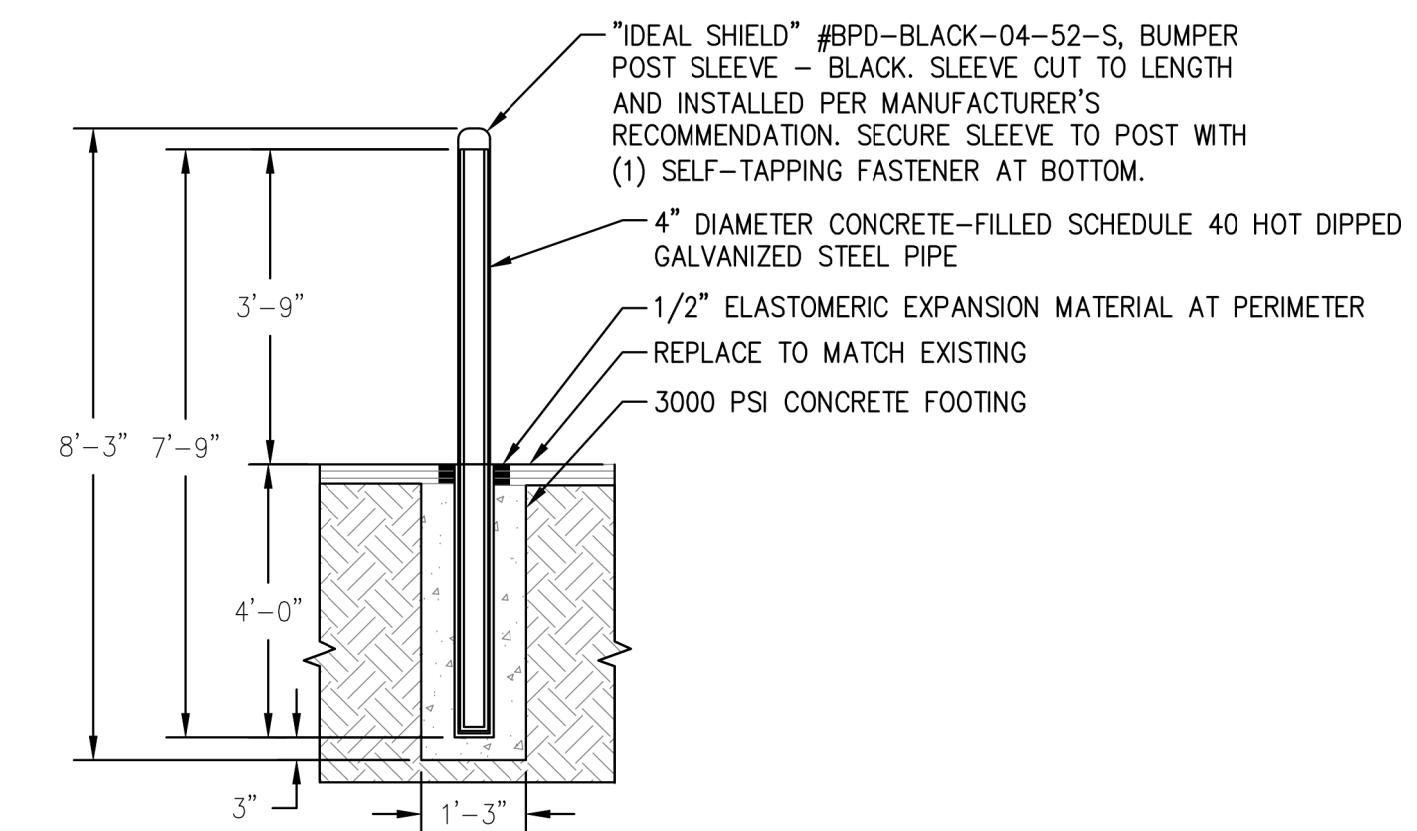
5  
C3.1



## WALL PENETRATION

SCALE: NTS

4  
C3.1



## BOLLARD - FIXED

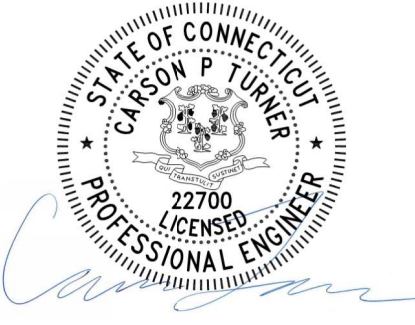
SCALE:

6  
C3.1

PROPRIETARY AND CONFIDENTIAL

BLOOM ENERGY CORPORATION ALL RIGHTS RESERVED. THIS DOCUMENT IS FOR REFERENCE ONLY AND MAY NOT BE USED WITHOUT THE WRITTEN PERMISSION OF BLOOM ENERGY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT PERMISSION OF BLOOM ENERGY IS PROHIBITED.

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



Digitally signed  
by Carson Turner  
DN: CN=Carson Turner  
Date: 2023.11.19  
12:10:45-08'00'

CUSTOMER SITE  
MANCHESTER  
COMMUNITY COLLEGE  
14 GREAT PATH  
MANCHESTER, CT 06040



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

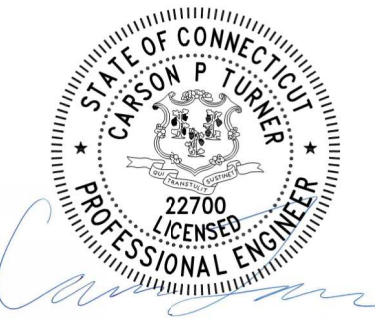
DESIGNED BY SCOTT BARD	REVIEWED BY KATE TAYLOR
DRAWN BY LAKSHMI SRINIVAS	APPROVED BY CARSON TURNER

SHEET TITLE  
SITE DETAILS 1

DRAWING NUMBER  
C3.1

BLOOM ENERGY DOCUMENT NUMBER  
DOC-1015259

THIS DRAWING IS 24" X 36" AT FULL SIZE  
SITE ID: CU007.0 SHEET 06 OF 15



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

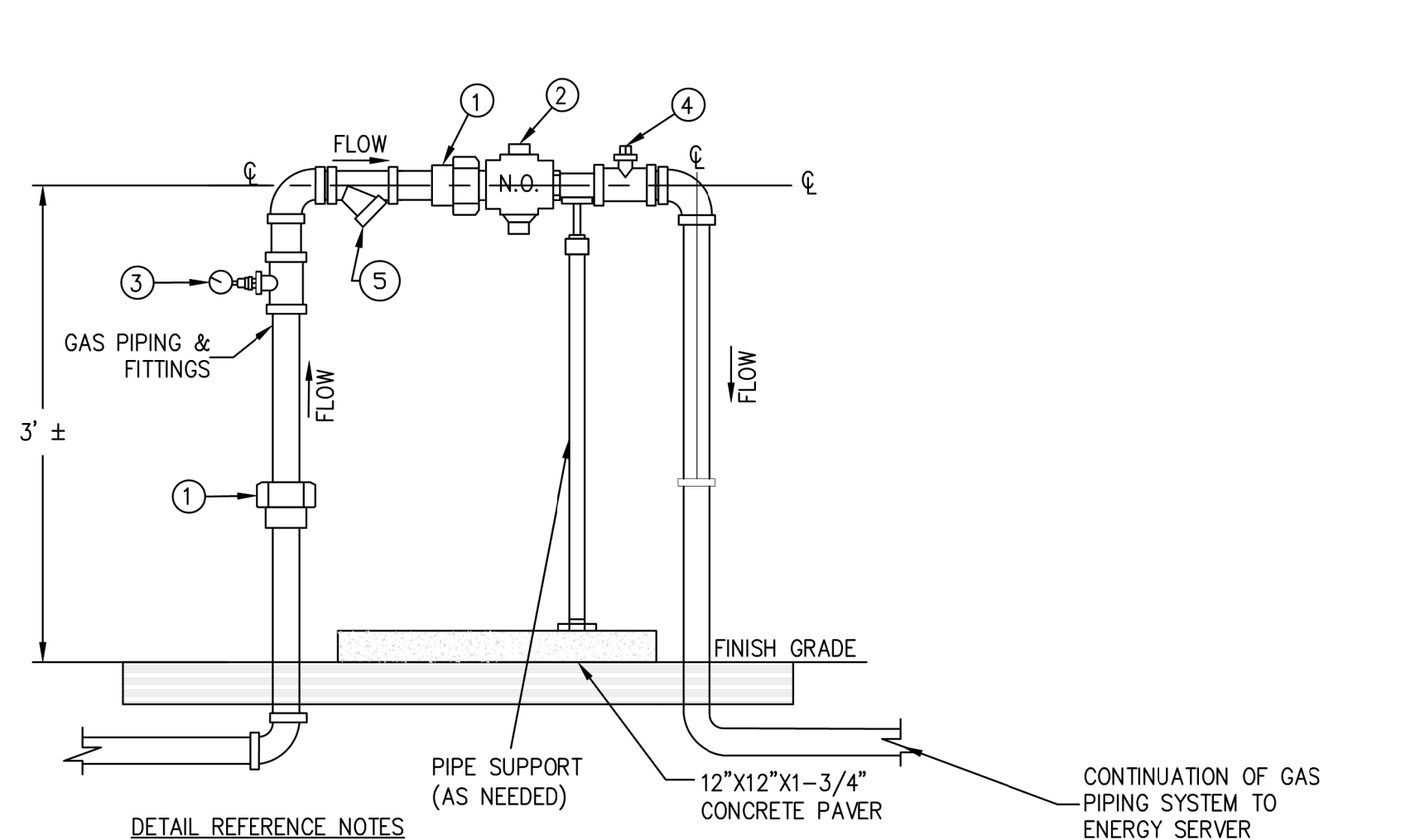
DESIGNED BY SCOTT BARD	REVIEWED BY KATE TAYLOR
DRAWN BY LAKSHMI SRINIVAS	APPROVED BY CARSON TURNER

SHEET TITLE	SITE DETAILS 2
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DRAWING NUMBER	C3.2
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BLOOM ENERGY DOCUMENT NUMBER	DOC-1015259
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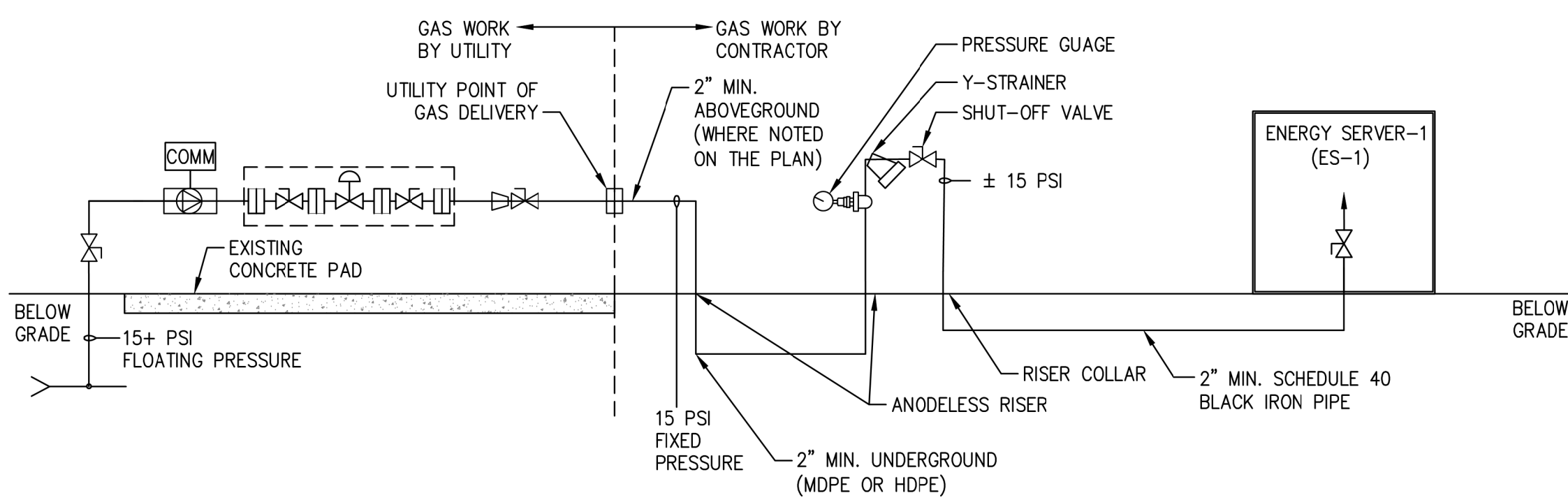
THIS DRAWING IS 24" X 36" AT FULL SIZE
SHEET 07 OF 15



- DETAIL REFERENCE NOTES**
- UNION TYPICAL AS REQUIRED.
  - SHUT OFF VALVE MUELLER H-11118 BLACK IRON AND TAMPER PROOF OR EQUAL.
  - 30 PSI PRESSURE GAUGE AND SHUT-OFF VALVE
  - BY-PASS TEE WITH PLUG UTILITY.
  - Y-STRAINER: KECKLEY SSB-7#40 MESH SCREEN OR EQUIV.

**GAS SHUTOFF VALVE**  
SCALE: NTS

**1**  
C3.2



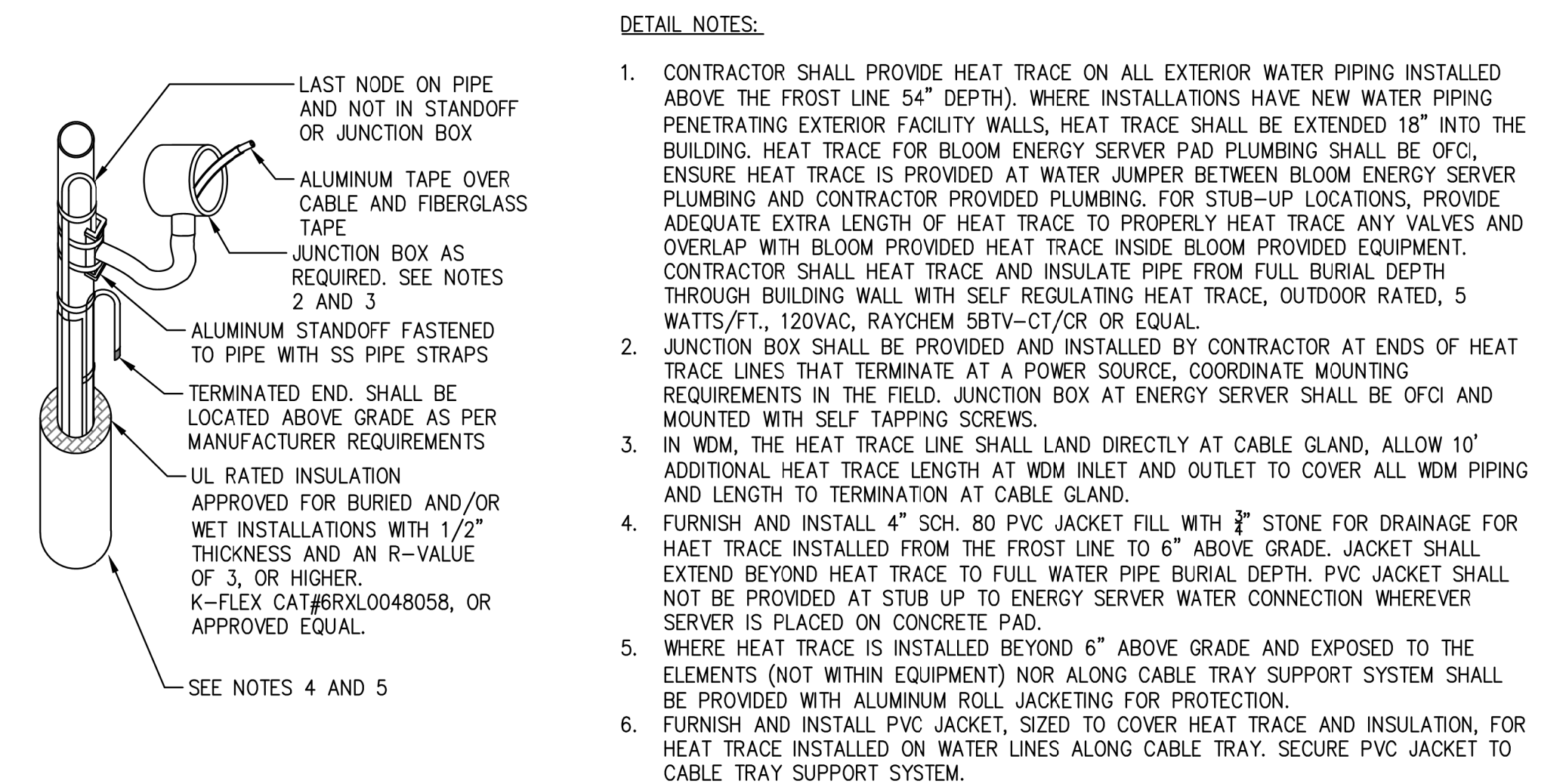
- DETAIL NOTES:**
- ALL GAS PIPING IS SIZED IN ACCORDANCE WITH NATIONAL FUEL GAS CODE. IT IS THE RESPONSIBILITY OF THE PIPING CONTRACTOR TO INSTALL SAID PIPING SYSTEM IN ACCORDANCE WITH THE GAS CODE AND ACCEPTABLE PIPING PRACTICES. THIS DRAWING DOES NOT EXCUSE THE CONTRACTOR FROM INSTALLATION PER APPLICABLE 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 MANUFACTURER'S REQUIRED MAXIMUM AND MINIMUM BURIAL DEPTHS.
  - ANODELESS RISERS SHALL CONFORM TO ASTM D2513 AND US DOT 1921.281, 192.283, 192.375. ANODELESS RISERS SHALL BE CSA AND IAMP0/UPC LISTED.
  - 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.
  - 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 OSMF 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.
  - 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).
  - ALL ABOVE GROUND GAS PIPING SHALL BE PROTECTED FROM CORROSION BY APPROVED COATING OR WRAPPING.
  - ALL NEW GAS LINES FROM METER TO ENERGY SERVER TO BE INSPECTED BY OSMF PRIOR TO BURYING.
  - ALL NEW GAS LINES FROM METER TO ENERGY SERVER TO BE PRESSURE TESTED AND PURGED PER CODE AND OSMF TO WITNESS SUCH TESTING PRIOR TO CONNECTION TO SERVER.

**LEGEND**

	GAS REGULATOR
	GAS METER
	SHUT OFF VALVE
	PRESSURE INDICATION
	FLANGE
	PRESSURE GAUGE AND SHUT-OFF VALVE
	Y-STRAINER: KECKLEY SSB-7#40 MESH SCREEN OR EQUIV

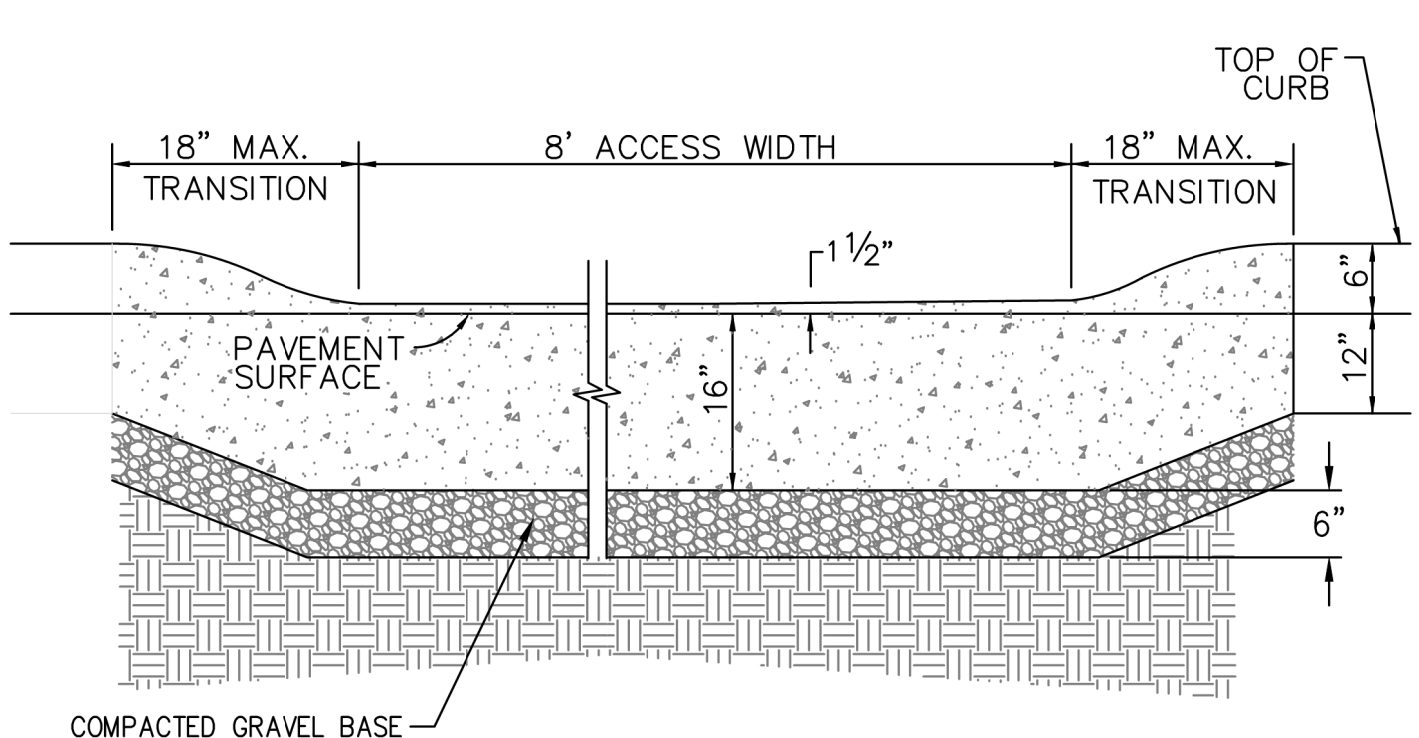
**GAS RISER - FIXED DELIVERY**  
SCALE: NTS

**4**  
C3.2



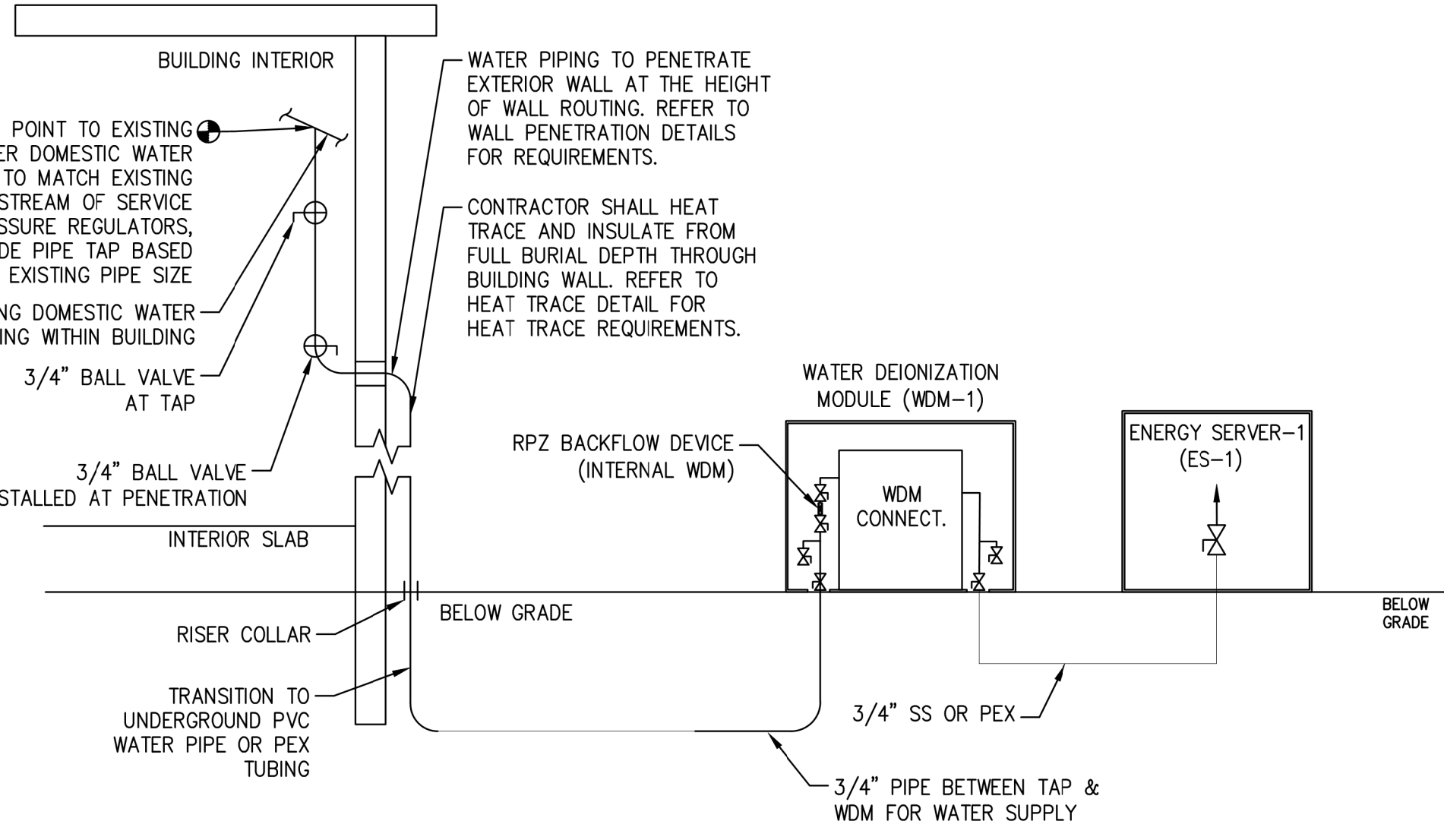
**HEAT TRACE**  
SCALE: NTS

**2**  
C3.2



**DEPRESSED CURB DETAIL**  
SCALE: NTS

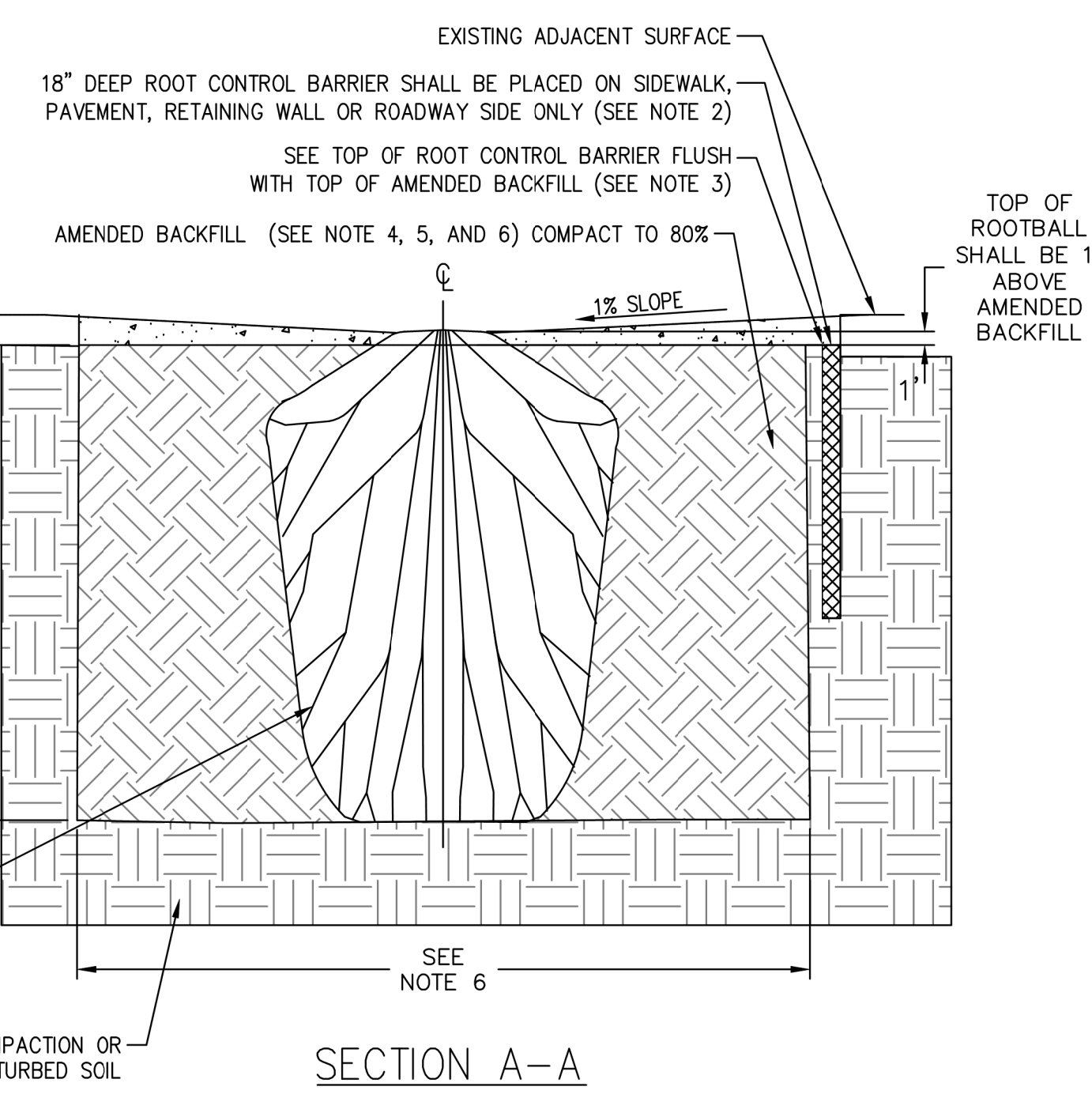
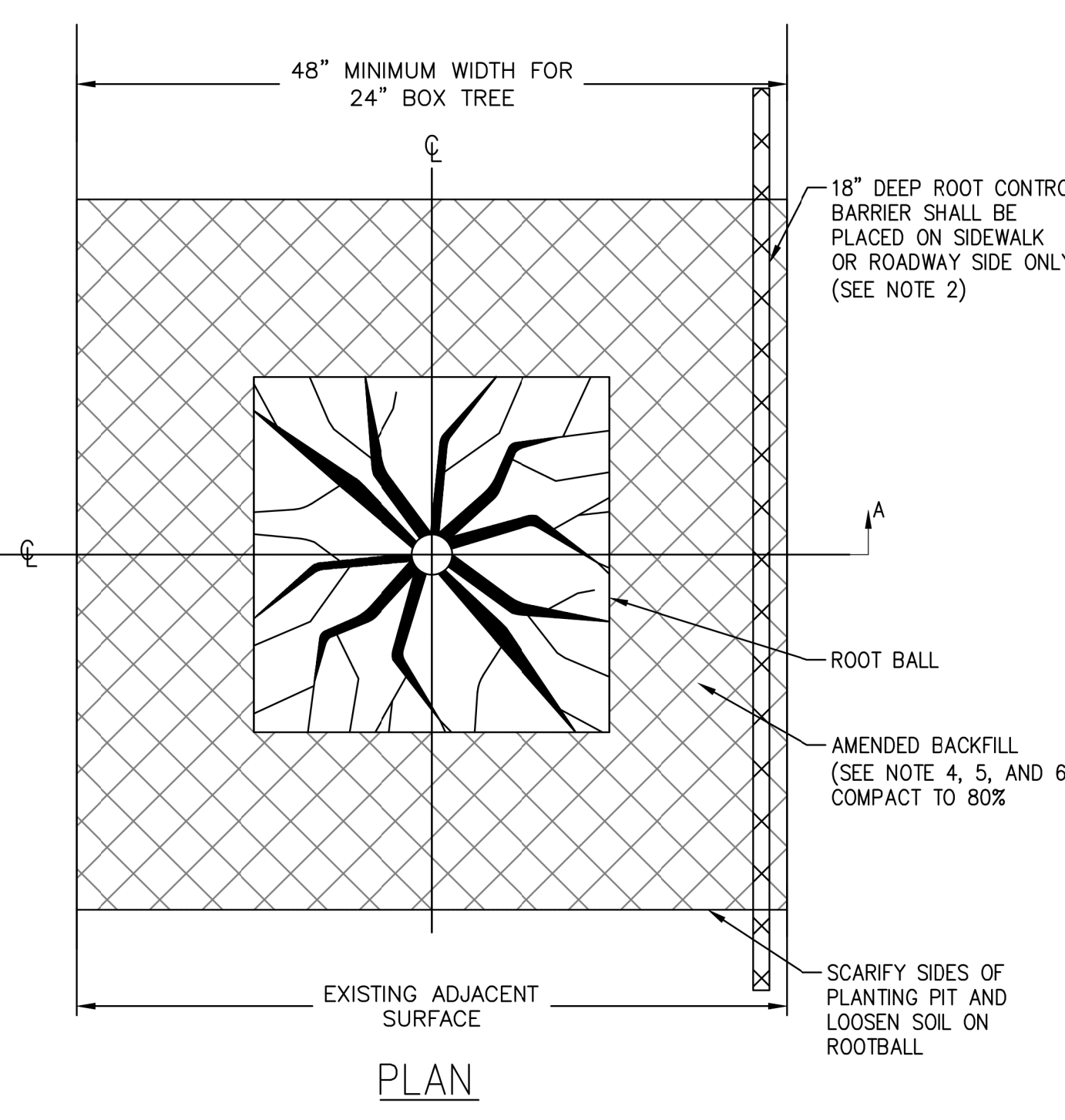
**3**  
C3.2



- DETAIL NOTES:**
- 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 FITTINGS SHALL BE PERMITTED.
  - PROVIDE INSULATION FOR ALL WATER PIPES ON EXTERIOR OF BUILDING AND ABOVE GRADE.
  - REFER TO HEAT TRACE DETAIL FOR HEAT TRACE REQUIREMENTS.
  - WHERE FACILITY WATER PRESSURE EXCEEDS 150PSI A PRESSURE REGULATOR MUST BE PROVIDED AND INSTALLED BETWEEN THE POINT OF FACILITY CONNECTION AND THE WDM.
  - IF EXISTING PIPE IS LESS THAN 3/4" APPROVAL IS REQUIRED FROM BLOOM ENERGY

**WATER RISER DIAGRAM**  
SCALE: NTS

**5**  
C3.2



- DETAIL NOTES**
- 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" DEEP.
  - THE TOP OF THE ROOT CONTROL BARRIER SHALL BE SET FLUSH WITH TOP AMENDED BACKFILL
  - 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 TREE/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.
  - 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 AGREEMENT 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.

**NEW TREE/BUSH DETAIL**  
SCALE: NTS

**6**  
C3.2