

ADDENDUM #2



CONTRA COSTA COMMUNITY COLLEGE DISTRICT

L-1240 Student Services and Equipment Plant BAS Upgrade

Los Medanos College
2700 E Leland Rd, Pittsburg, CA 94565

Date: August 7, 2024

NOTICE TO ALL CONTRACTORS

You are hereby notified of the following changes, clarifications and/or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and/or previous Addenda. This Addendum shall supersede the original Contract Documents and previous Addenda wherein it contradicts the same, and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated **July 11, 2024, and Addendum #1 issued July 29, 2024**. Acknowledge receipt of this Addendum in space provided on the Bid Proposal Form. Failure to acknowledge may subject Bidder to disqualification.

A. DELETIONS, ADDITIONS, CHANGES, REVISIONS

Item:

1. REPLACE: L-1240 – LMC SS and Utility Plant BAS Upgrade – Drawing BAS.02.

DELETE existing L-1240 – LMC SS and Utility Plant BAS Upgrade – Drawing BAS.02 in its entirety and **REPLACE WITH** new L-1240 – LMC SS and Utility Plant BAS Upgrade – Drawing BAS.02 - ADDENDUM #2 dated 8/7/24 (attached), in its entirety.

Note: All changes per addendum #2 have been clouded with note #3. Changes are related to clarifications on the Chilled Water line routing.

2. REPLACE: L-1240 – LMC SS and Utility Plant BAS Upgrade – Specifications Section 250000 Building Automation Systems – Page 1.

DELETE existing L-1240 – LMC SS and Utility Plant BAS Upgrade – Specifications Section 250000 Building Automation Systems – Page 1 – ADDENDUM #1 dated 7/26/24 and **REPLACE WITH** new L-1240 – LMC SS and Utility Plant BAS Upgrade – Specifications Section 250000 Building Automation Systems – Page 1 - ADDENDUM #2 dated 8/6/24 (attached).

Note: All changes per addendum #2 are noted in blue text. Changes are related to clarifications in the summary on the boilers scope of work.

ADDENDUM #2

3. Requests of Information/Responses

- a. SEE ATTACHED MEMO FROM TAYLOR ENGINEERS FOR ALL RFI QUESTIONS AND RESPONSES.

4. ADD: New Reference Documents as noted in the RFI responses.

ADD the following reference documents as noted in the RFI response from Taylor Engineers:

- 2022.033.02 LMC 11X17-HIGH VOLTAGE SYSTEM
- 2022.033.02 LMC 11X17-GAS SYSTEM
- 1971 East Campus Mechanical Utility Building - DSA 34242

Note: These are utility survey drawings and as-built drawings referenced in the RFI responses and used to identify the locations of the PG&E meters, CT Makeup Water Meter and CHW Flow Meter.

B. If you have any questions regarding this Addendum, please contact:

Mr. Ben Cayabyab, Contracts Manager
Contra Costa Community College District
500 Court St., Martinez, CA 94553
Email: bcayabyab@4cd.edu
Facsimile: 925-370-7512;

All other terms and conditions of BID are to remain the same.

ATTACHMENTS:

L-1240 Student Services and Utility Plant BAS Upgrade – Drawing BAS.02 – Addendum #2

Specification Section 250000 Building Automation Systems – Page 1 - Addendum #2

2024-08-06 - Memo - L-1240 Student Services and Utility Plant BAS Upgrade – RFI

2022.033.02 LMC 11X17-HIGH VOLTAGE SYSTEM

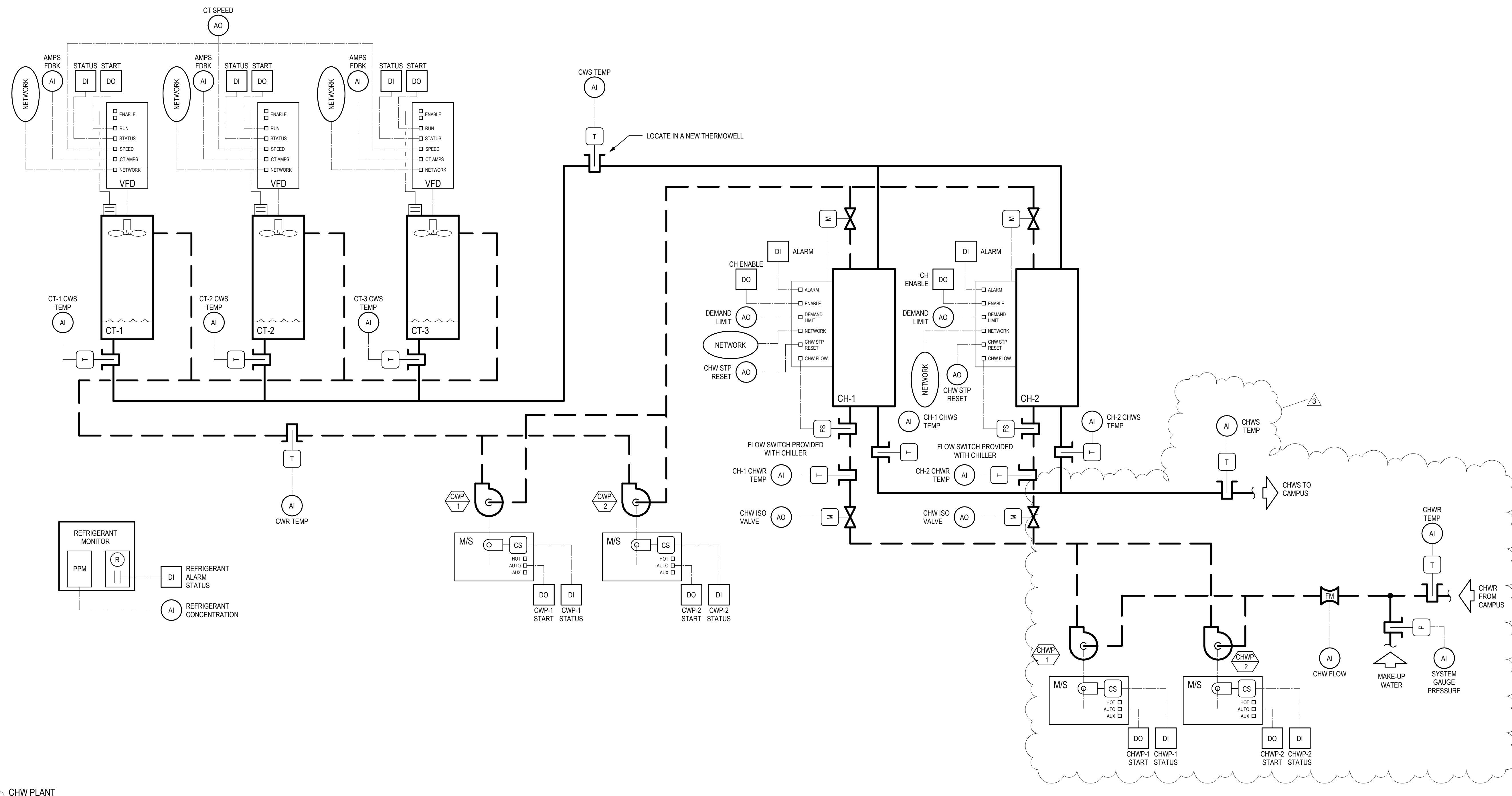
2022.033.02 LMC 11X17-GAS SYSTEM

1971 East Campus Mechanical Utility Building - DSA 34242

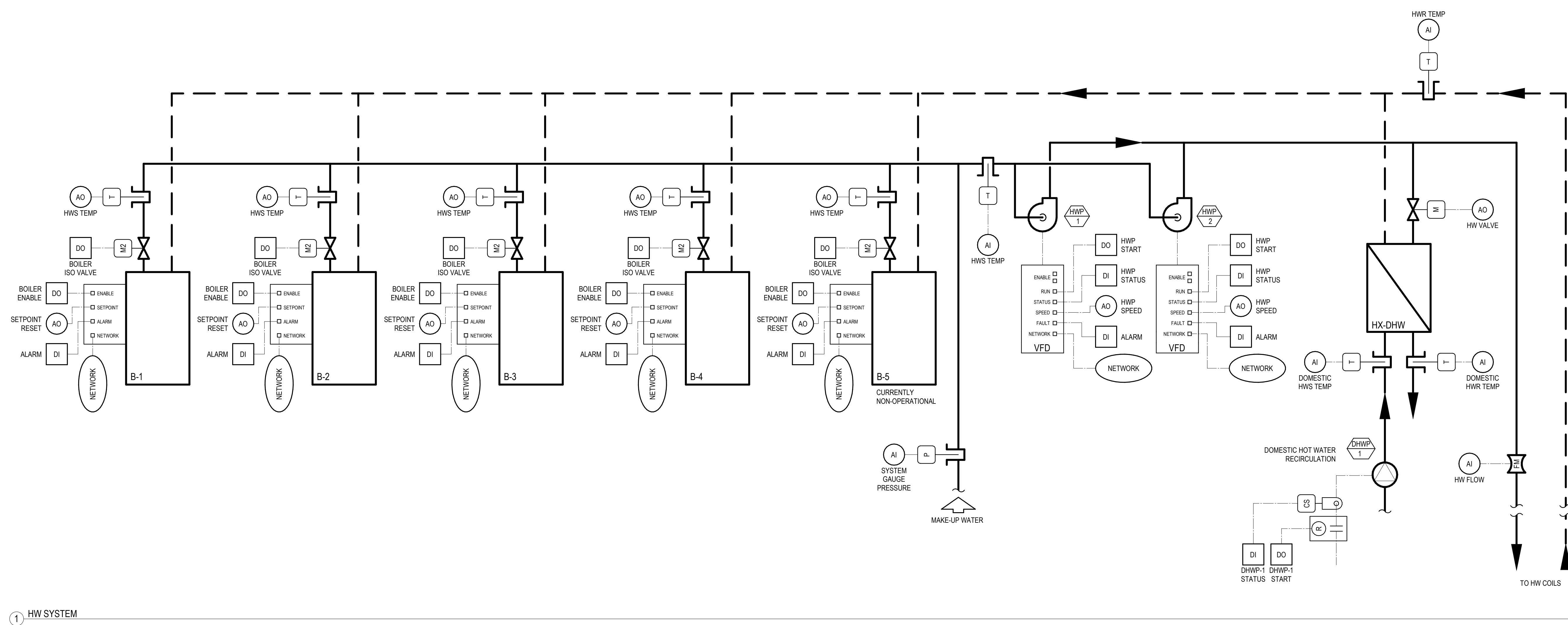
L-1240 STUDENT SERVICES AND UTILITY PLANT BAS UPGRADE

taylor engineers

1080 Marina Village Parkway
Suite 501
Alameda, CA 94501-1142



2 CHW PLANT



1 HW SYSTEM

ISSUES / REVISIONS

No.	Description	Date
1	ISSUE FOR BID	07.05.2024
2	ADDENDUM 1	07.26.2024
3	ADDENDUM 2	08.07.2024

CONTRA COSTA
COMMUNITY
COLLEGE DISTRICT

Drawn by LVR & HC
Scale NOT TO SCALE

HVAC CONTROLS
DRAWINGS

BAS.02

SECTION 250000

BUILDING AUTOMATION SYSTEMS

PART 1 GENERAL

1.1 SUMMARY

- A. The project scope includes the following areas in various wings of the College Complex building at Los Medanos College, as well as the associated chilled and hot water plants:
1. The Student Services wing is served by six air handling units, AHU-2 through AHU-7, and those AHUs serve 72 zones covering two connected floors that total approximately 32,000 ft². The air distribution system dates to 2012 with Andover Continuum digital direct controls (DDC) throughout.
 2. Sector 4 is conditioned by 15 zones covering approximately 7,000 ft² making up the Social Sciences department on the second floor north of the College Complex. The air distribution primarily dates to the early 1970s with a retrofit to convert the pneumatically-controlled constant volume reheat zones into variable air volume with the addition of slide-in retrofit terminals. The pneumatic VAV zones are to be converted to DDC as part of this project. The associated AHU is not in the scope of this project.
 3. Sector 5A is served by AHU-1 Student Services with 9 zones covering approximately 4,500 ft² of classrooms and offices on the second floor east of the College Complex. The air distribution was retrofitted in 2015 with new VAV terminals and Andover Continuum DDC controls.
 4. AC-3 serves classrooms 114 and 115 and offices 116 and 117 in the first floor “Fishbowl” area. AC-3 is an air-conditioning unit with hot water heating coil that serves three reheat zones. Minimum outside air is relieved by an interlocked exhaust fan.
 5. The Central Plant is a separate building located south of the College Complex. The heating plant is made up of ~~four-six~~ boilers (two additional boilers of which are currently non-operational; one is to be integrated to ALC, the other is ~~and~~ out of scope), and two variable speed pumps. The heating hot water plant was updated in 2012 and has DDC controls. The chilled water plant is made up of two water cooled centrifugal chillers, two constant speed chilled water pumps, three cooling towers, and two constant speed condenser water pumps. The chilled water plant has pneumatic control valves.
- B. This project consists of:
1. Upgrading the existing controls to new Automated Logic Corp. (ALC) Building Automation System (BAS).
 2. Updating all control sequences to latest building standard sequences as described in Section 259000 Building Automation Sequences of Operation.
 3. Updating and adding new graphics.

To: Andy Bruch, Sunbelt Controls
 From: Laura Van Rietema & Hwakong Cheng, Taylor Engineers
 Subject: L-1240 Student Services and Utility Plant BAS Upgrade - RFI
 Date: August 6, 2024

No.	Comment	Response
1.	Please provide locations of the PG&E meters on the site plan	Meters are located in the enclosure just south of the central plant building and are shown on the additional reference documents.
2.	Please provide a wiring diagram for the point of connection of each PG&E meter	Each monitoring point will connect to the pulse output on each PG&E meter.
3.	Please provide the location and line size for the CT Makeup Flow meter and CHW system flow meter.	<p>CT makeup water meter will be located in the domestic cold water pipe just outside the cooling tower enclosure, above the CWP's https://app.struictionsite.com/pinimage/xABS1n77EEWekrxXvxnmFVe3</p> <p>The CHW system flow meter will be located in the return maintaining sufficient straight pipe lengths per manufacturer's instructions. https://app.struictionsite.com/pinimage/xABS1n77EEWekrxXvxnmFVe3</p> <p>Locations are also shown in the attached 1971 reference document.</p>
4.	Who is the vendor for sourcing the Basler controller for the generator?	<p>Winco is the vendor for the Basler controller. The 230000 1.3B.1. lists the Winco contact information:</p> <ol style="list-style-type: none"> 1. Network integration for the Emergency Generator. For alternate: Provide new Basler controller with Modbus networking capability for WINCO DR120I4 generator and integrate into BAS for monitoring. Winco contact: service@wincogen.com. Existing Basler controller model number 51ANNNSNH001. For base scope, connect hard wired status monitoring point to (E) generator controller. <p>You can also contact Dale Reibel directly at 507-357-8332.</p>

LABEL	METER #	BLDG
M1	1010185773	UTIL
M2	1010414818	LELAND RD (EV CHARGER METER NOT NEAR ANY BUILDINGS)



LCC ENGINEERING & SURVEYING, INC.

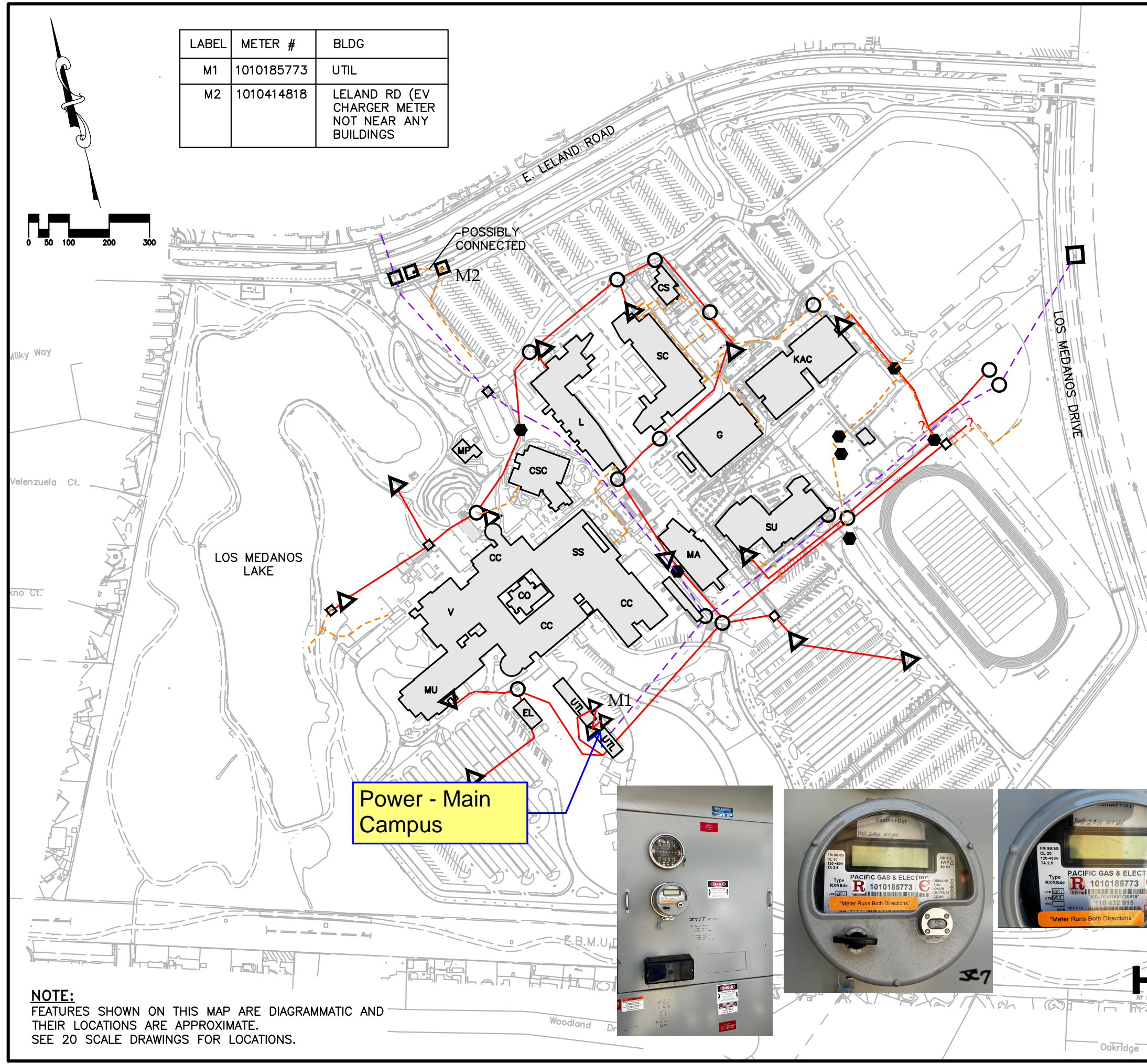
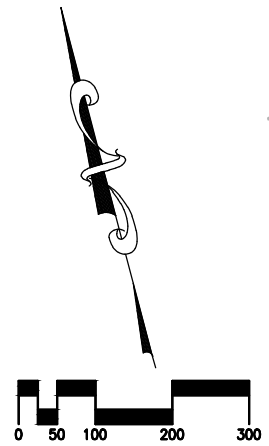
930 Estudillo Street
Martinez, California 94553-1620
(925) 228-4218 Fax (925) 228-4638
www.lcc-inc.com

BUILDING LEGEND

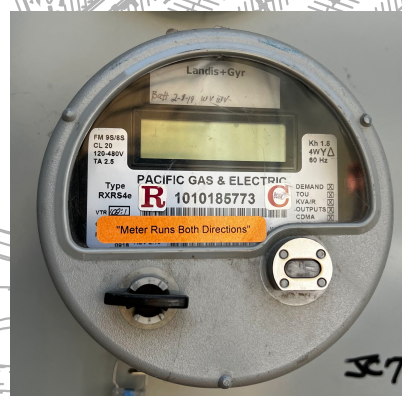
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|-----|----------------------|----|-------------------------|
| CC | COLLEGE COMPLEX | MA | MATH |
| CO | CORE BUILDING | MP | MARKETPLACE |
| CSC | CHILD STUDY CENTER | MU | MUSIC |
| CS | CAMPUS SAFETY | SC | SCIENCE |
| EL | ETEC LAB | SU | STUDENT UNION |
| F | BOOKSTORE, CAFETERIA | SS | STUDENT SERVICES |
| GA | STUDENT LIFE OFFICE | V | VETERAN RESOURCE CENTER |
| G | GYM | | |
| KAC | PHYSICAL EDUCATION | | |
| L | LIBRARY | | |

ELECTRICAL LEGEND

- | | |
|-------------------------------|-------|
| ELECTRIC SERVICE LINE | --- |
| 5KV ELECTRIC LINE | — |
| 21KV ELECTRIC LINE | - - - |
| MANHOLE or VAULT | ○ |
| TRANSFORMER | △ |
| ELECTRICAL UTILITY STRUCTURES | □ |
| PULLBOXES | ◆ |



Power - Main Campus



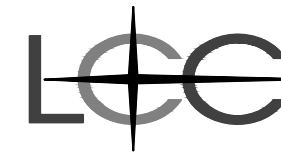
LOS MEDANOS COLLEGE

Los Medanos College
2700 East LeLand Road
Pittsburg, CA 94565

HIGH VOLTAGE SYSTEM

ISSUE DATE: 07/20/2023

NOTE:
FEATURES SHOWN ON THIS MAP ARE DIAGRAMMATIC AND THEIR LOCATIONS ARE APPROXIMATE.
SEE 20 SCALE DRAWINGS FOR LOCATIONS.



ENGINEERING & SURVEYING, INC.

930 Estudillo Street
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(925) 228-4218 Fax (925) 228-4638
www.lcc-inc.com

LABEL	METER #	BLDG
M1	60836846	SC
M2	000544A	Util
M3	62168398	Util

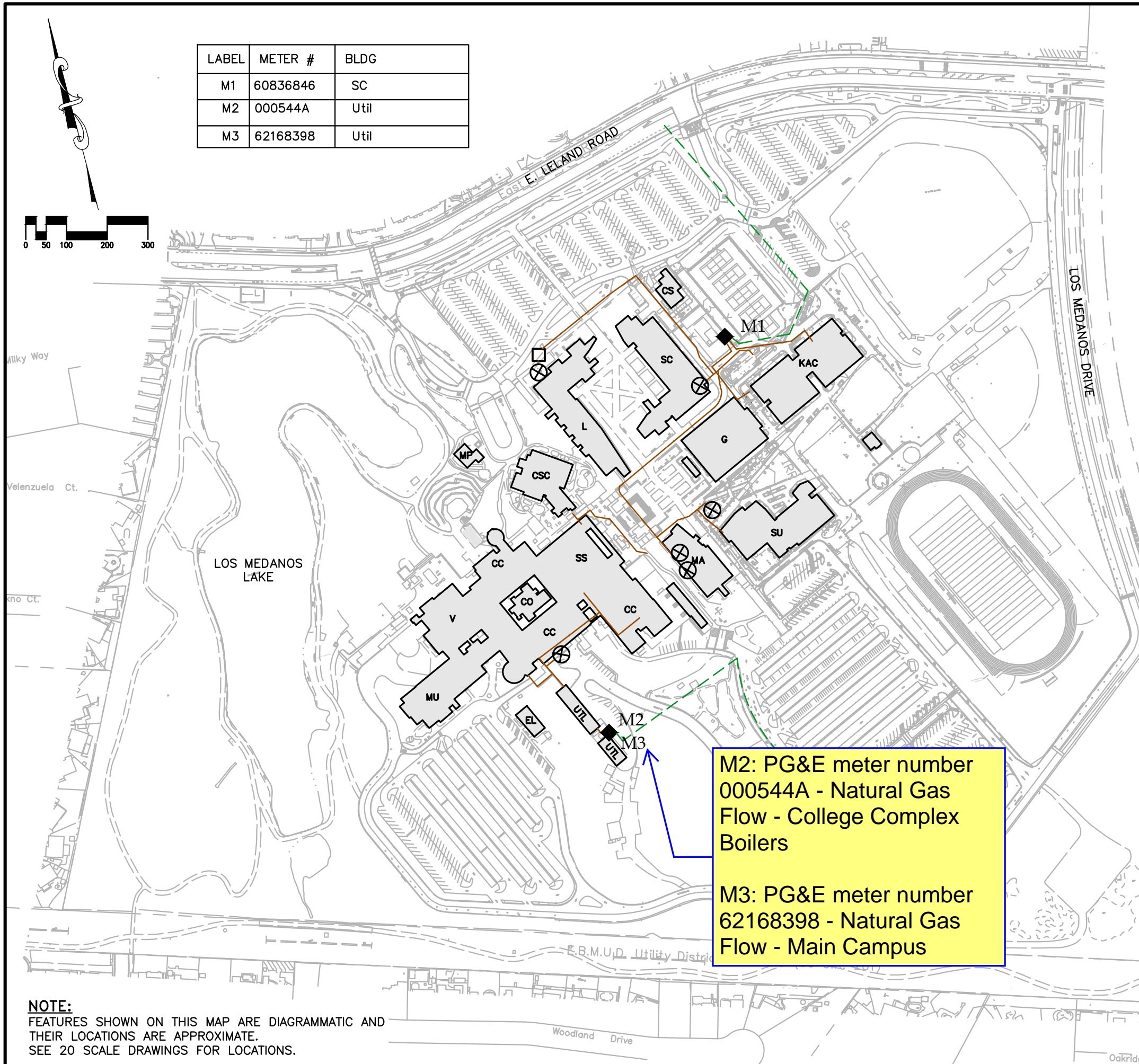


BUILDING LEGEND

CC	COLLEGE COMPLEX	MA	MATH
CO	CORE BUILDING	MP	MARKETPLACE
CSC	CHILD STUDY CENTER	MU	MUSIC
CS	CAMPUS SAFETY	SC	SCIENCE
EL	ETEC LAB	SU	STUDENT UNION
F	BOOKSTORE, CAFETERIA	SS	STUDENT SERVICES
GA	STUDENT LIFE OFFICE	V	VETERAN RESOURCE CENTER
G	GYM		
KAC	PHYSICAL EDUCATION		
L	LIBRARY		

GAS SYSTEM LEGEND

MAIN GAS DISTRIBUTION LINE	
GAS SERVICE LINE	
GAS VALVE	
GAS UTILITY BOX	
GAS METER	



M2: PG&E meter number
000544A - Natural Gas
Flow - College Complex
Boilers

M3: PG&E meter number
62168398 - Natural Gas
Flow - Main Campus

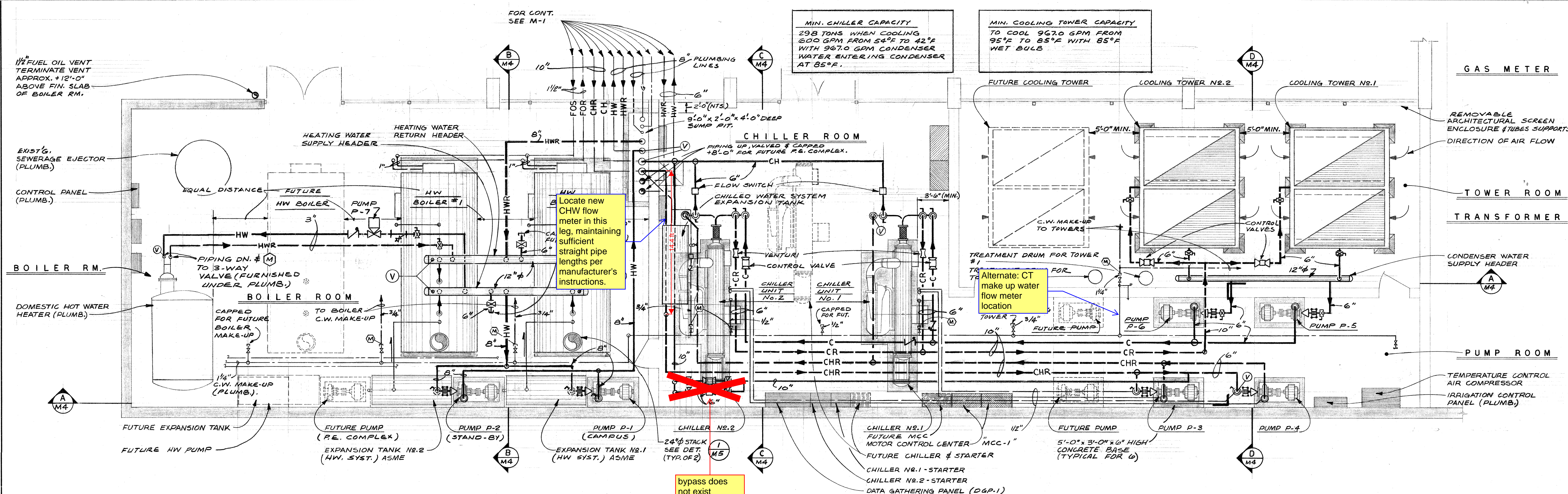
LOS MEDANOS COLLEGE

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GAS SYSTEM

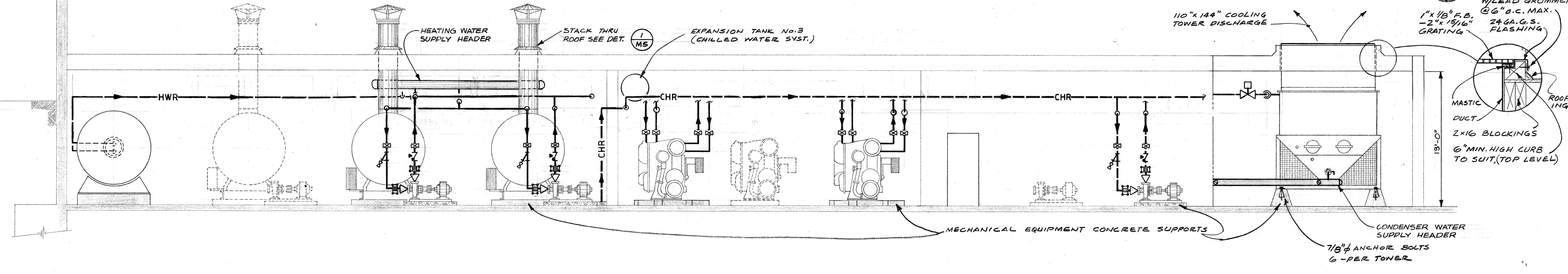
ISSUE DATE: 07/20/2023

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SEE 20 SCALE DRAWINGS FOR LOCATIONS.



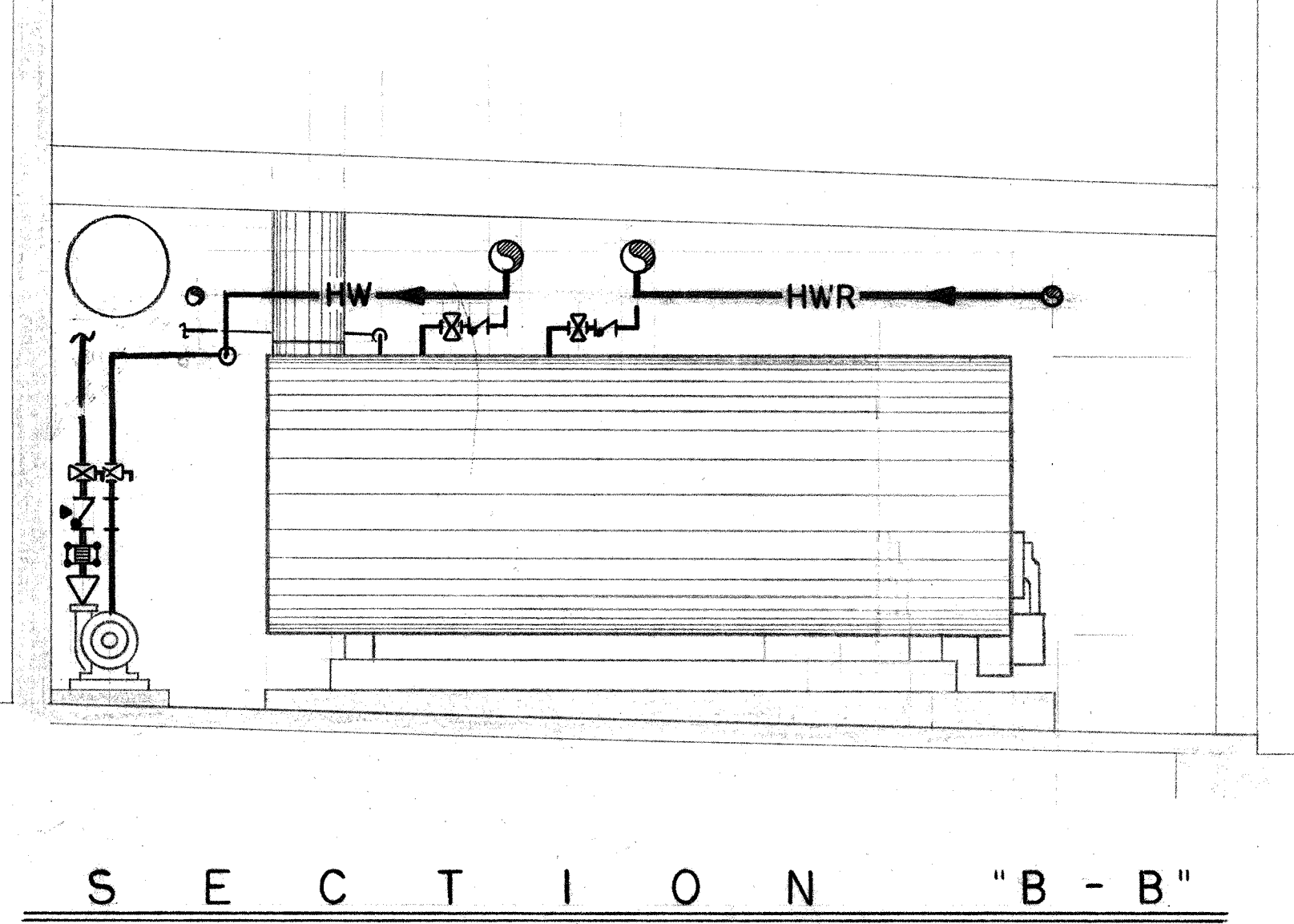
UTILITY BUILDING - MECHANICAL EQUIPMENT PLAN

SCALE: 1/4" = 1'-0" NOTE: TOP OF EQUIPMENT SUPPORT BASE SHALL BE LEVEL.



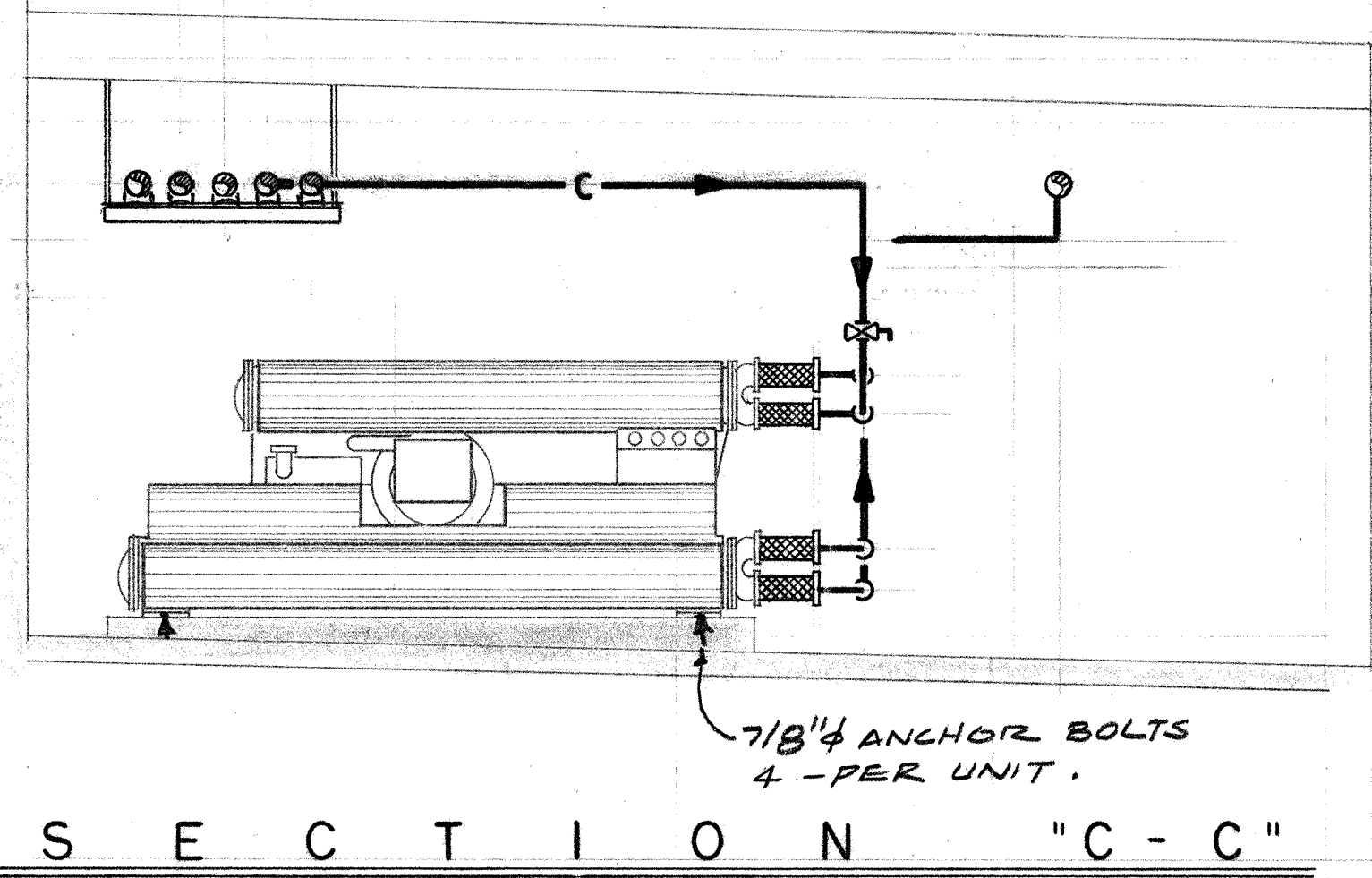
SECTION "A-A"

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



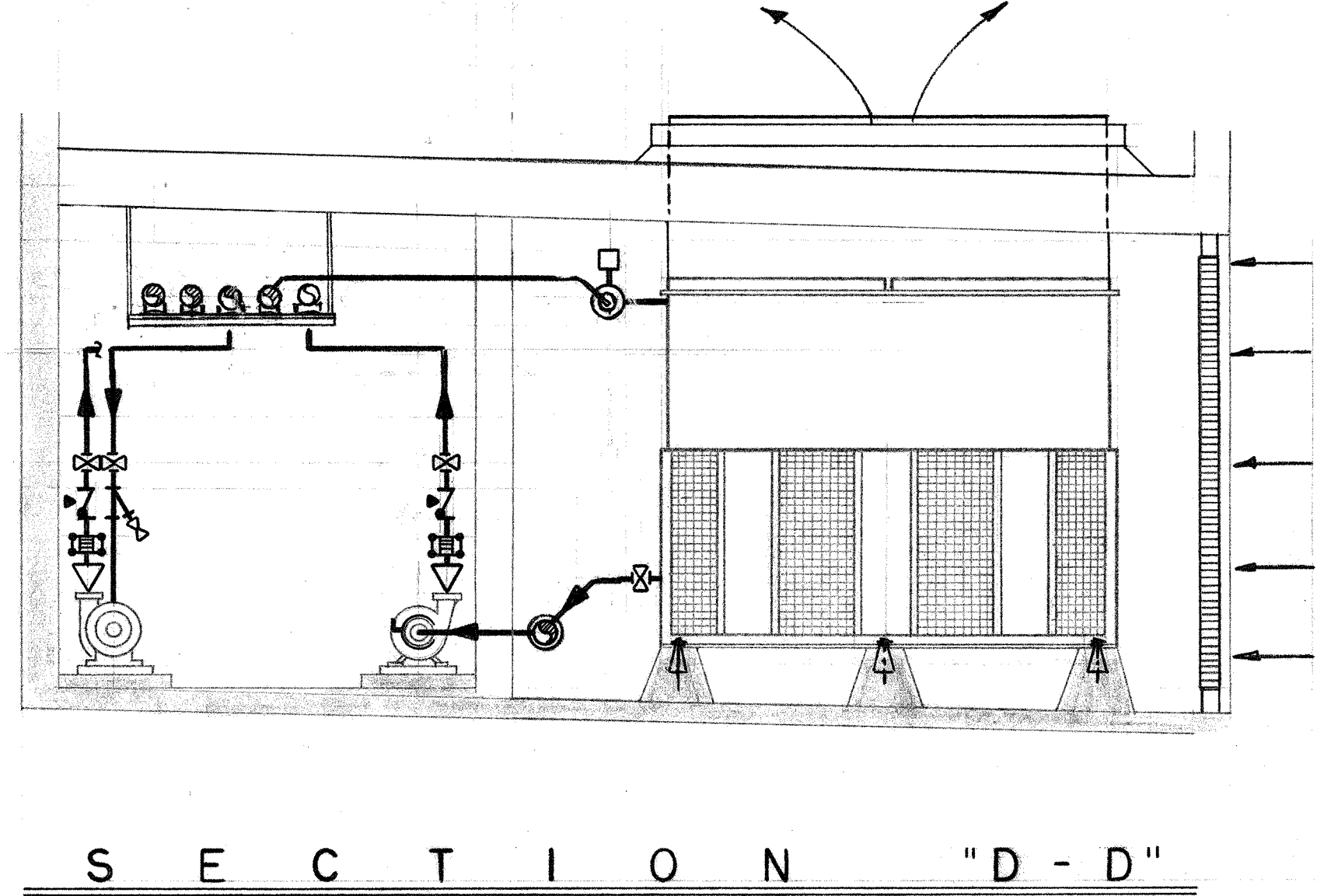
SECTION "B-B"

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



SECTION "C-C"

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



SECTION "D-D"

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

STATE FIRE MARSHAL APPROVAL APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE: 06-19-1971 BY: <i>[Signature]</i>	OFFICE OF ARCH. & CONST. APPROVAL STATE OF CALIFORNIA - DEPARTMENT OF GENERAL SERVICES DIVISION OF ARCHITECTURE AND CONSTRUCTION 34242 APPROVED OCT 6 - 1971 APPLICATION NO. <i>[Signature]</i> CHIEF PROFESSIONAL OFFICER	CONSULTANTS #1552 CHARLES BRAUN CONSULTING ENGINEERS San Francisco, California (415) 434-2720	COMETTA AND CIANFICHI 3516 MACDONALD AVENUE RICHMOND, CALIF. 232-2637 FREDERICK L.R. CONFER + ASSOCIATES 1200 CONTRA COSTA BLVD. CONCORD, CALIF. 686-2292 E. A. COMETTA F. L. R. CONFER, ARCHITECT J. E. GROSSEN, ARCHITECT P. D. CIANFICHI, ARCHITECT ASSOCIATED ARCHITECTURAL FIRMS P. W. CONFER	EAST CAMPUS CONTRA COSTA JUNIOR COLLEGE DISTRICT EAST LELAND ROAD CONTRA COSTA COUNTY PITTSBURG CALIFORNIA	MECHANICAL UTILITY BUILDING PLAN AND SECTIONS	JOB No. 348-68 SHEET DATE 10-4-71 REVISIONS M-4 OF SHEETS
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