
Hot Water Utilidor Project MAJ 15-MJ0065-Rebid

ADDENDUM #1

PROJECT MANAGER:

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ARCHITECT/ENGINEER:

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DATE: October 14, 2016

Submittal Date: **October 20, 2016**
before 2:00 p.m.

The following additions, deletions, and revisions to the Drawings and Project Manual are a part of the Contract Documents.

Each Bidder shall:

- Submit the information contained in this addendum to their subcontractors and suppliers.
- Acknowledge receipt of addenda on the Bid Form.
Note: Failure to acknowledge addenda in the space provided on the Bid Form may subject the Bidder to disqualification.

Item 1-1 Division 1 General Requirements, Section 01 11 00 Summary of Work

**DELETE EXISTING SECTION 01 11 00 SUMMARY OF WORK
AND REPLACE WITH THE ATTACHED SECTION 01 11 00 SUMMARY OF WORK**

Item 1-2 Division 1 General Requirements, Section 01 23 00 Bid Alternative Procedures

**DELETE EXISTING SECTION 01 23 00 BID ALTERNATIVE PROCEDURES
AND REPLACE WITH THE ATTACHED SECTION 01 23 00 BID ALTERNATIVE PROCEDURES**

Item 1-3 Drawing No. M0.5 Bid Alternates – Utilidor Piping Zones

**DELETE EXISTING DRAWING NO. M0.5 BID ALTERNATES – UTILIDOR PIPING ZONES
AND REPLACE WITH THE ATTACHED DRAWING NO. M0.5 BID ALTERNATES – UTILIDOR PIPING ZONES**

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California Polytechnic State University - San Luis Obispo, CA

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**SECTION 01 11 00
SUMMARY OF WORK**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Project Description
 - 2. Work by Trustees
 - 3. Trustees Supplied Products
 - 4. Contractor Use of Premises
 - 5. Trustees Occupancy
 - 6. Special University Requirements and Controls
 - 7. Contractor's Duties
 - 8. Specification Formats and Convention

- B. Related Specification Sections
 - 1. Section 01 50 00 - Temporary Facilities and Controls
 - 2. Section 01749 - Construction Waste Management and Disposal
 - 3. Technical Specifications, Divisions 1 thru 16.

1.02 PROJECT DESCRIPTION

- A. General Description of the Work
 - 1. The work shall conform to the contract drawings listed and to the specifications, which form a part of this package.
 - 2. Work of this contract includes, but is not limited to, construction of the Utilidor Hot Water Line Replacement.
 - 3. Project Name and Location: Utilidor Hot Water Line Replacement, California Polytechnic State University, San Luis Obispo, California.
 - 4. Project Summary:
 - I. Work under this section is described per these specifications on drawings labeled "Utilidor Hot Water Line Replacement".
 - II. Reference Documents: Record drawings for existing utilities are available in the Cal Poly Plan Room. Call the Project Manager, Eric Soderin, (805) 756-2105, for an appointment.
 - 5. Project Definitions
 - I. "**Utilidor**": piping that occurs in the removable concrete lid vault. This 10" supply/return piping runs throughout campus in a loop system and can be controlled and isolated by the Double Block Bleed (DBB) valves as shown on the plans. This is the central distribution pipeline for the all hot water.
 - II. "**Run-out**": the 8", 6", 4", 3" or 2" lateral connections that are connected to the Utilidor vault piping which serve a building and/or group of buildings. Typically these supply/return pipes are direct buried and have isolation valves for independent control.

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- III. **“Zones”**: these areas are numbered and are referenced in the Appendix A map. Zones are controlled by Double Block Bleed (DBB) valve assemblies as shown on the plans. Portions of the Utilidor can be isolated into particular Zones as needed to perform work. Within a Zone, multiple Run-outs can be impacted when these Zones are turned off or on.
 - IV. **“Isolation Valves”**: these valves control hot water supply/return flow at each Run-out piping segment. These are typically installed inside a concrete valve box.
6. Continuous Hot Water Service
The Trustees may require the Contractor to provide temporary hot water service at each location on this project while work is occurring. Contractor shall provide daily unit cost to provide such service on the Bid Proposal Form.
- I.Means to provide temporary hot water service:
 - 1) A By-pass Piping System: an arrangement comparable to the existing piping must be installed to provide continuous hot water service during construction. A proposed Plan must be submitted to Engineer/Campus.
 - 2) An External Heating Source: such as a portable Boiler System can be used. A proposed Plan must be submitted to Engineer/Campus.
 - 3) **EXCEPTION**: Work to be conducted during School Summer Break of 2017 in dormitories do not need any temporary hot water service. See Section 01 10 00-1.02B.III below. The Dormitories will be vacant; therefore, no hot water is needed here. However, time is of the essence to begin and finish these areas during the summer break time.
 - II.System Hot water temperatures, pressures, flows, etc. must be maintained while the temporary means is installed. All temporary means must be tested, cleaned, passivated, and accepted by the owner before the switch-over and shut-down can occur. There will be no exceptions.
 - III.Shut-downs are allowed only when interrupting hot water service to switch piping, install valves, install a by-pass system, etc. Shut-downs are limited to 48-hours or less including draining and filling.
 - IV.An approved Plan must be submitted and approved by the Engineer/Campus before work can be allowed to begin. Draining must be coordinated with the Campus personnel.
- B. Project Schedule and Order of Work
- 1. This Project has a strict schedule regarding certain portions of work. Areas such as the Dorms can only be worked on during the Summer Quarter periods. The Campus has identified the following order of work for this project.

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I. **BASE BID WORK:**

Run-out piping work, per plans, includes supply/return isolation valves, concrete box, and associated piping originating from the Utilidor vault, which continues onto the Building POC per plans.

Utilidor piping work, per plans, includes supply/return pipe, anchoring, pipe guides, expansion joints, and/or vents located inside the pre-cast vault and piping just outside of the vault to the Isolation Valve box.

Prior to start of work Contractor shall provide a detailed schedule addressing shutdown and startup of each building for Campus review and approval prior to start of work. Contractor schedule shall minimize the Off-Line condition of each building to greatest extent possible.

i. **ZONES 1, 2 & 5 RUN-OUT PIPING**

Each Zone shall be started and finished before moving onto the next Zone area including Run-outs and Utilidor work.

The Buildings connected to this work are shown per plans. Contractor to make sure all connected buildings are fully operational. All work, testing, cleaning, passivating, and owner acceptance must be completed before moving onto the next Zone. There will be no exceptions, and Liquidated Damages \$750 per day will be enforced.

ii. **ZONE 6 UTILIDOR PIPING (times must be acceptable and scheduled with the Campus and Central Plant staff beforehand):**

Zone 6 includes 10" Utilidor piping only. The Utilidor piping work is critical in this area and must be scheduled, at the campus' convenience and acceptable beforehand to the Campus Central Plant staff. The work in this area will cause the entire campus Utilidor Hot Water System to be shutdown.

The Buildings connected to this work are shown per plans. Contractor to make sure all connected buildings are fully operational. All work, testing, cleaning, passivating, and owner acceptance must be completed before moving onto the next Zone. There will be no exceptions, and Liquidated Damages \$750 per day will be enforced.

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II. BID ALTERNATIVES

Various Bid Alternative work, per plans, includes the Run-out piping, Utilidor piping in the Utilidor vault, and/or Run-out piping running to the respective Run-out Isolation Valve box POC per plan. The Utilidor pipe work is isolated by the respective Double Block Bleed valves as shown per plans, and shutdown coordination must be approved by the Campus beforehand.

- i. **Additive Alt. #1 – Zone 6 Run-Out Piping**
- ii. **Additive Alt. #2 – Zone 6 Utilidor Piping**
- iii. **Additive Alt. #3 – Zone 3 Run-Out Piping (Buildings 105, 106, 107 & 108 only)**
- iv. **Additive Alt. #4 – Zone 3 Utilidor Piping**
- v. **Deductive Alt. #1 – Zone 1 – Utilidor Piping**

The areas connected to this work are shown per plans. Contractor to make sure all connected buildings are fully operational. All work, testing, cleaning, passivating, and owner acceptance must be completed before moving onto the next Zone. Liquidated Damages \$750 per day will be enforced.

III. ORDER OF WORK

Work shall progress in the following order below. Work shall be completed in the following order:

ZONE AREA	ORDER OF WORK
Zone I – Run-outs (BASE BID)	First (Nov 2016 – April 2017)
Zone I – Utilidor (BASE BID)	Second (Nov 2016 – April 2017)
Zone 5 – Run-outs (BASE BID)	Third (Nov 2016 – August 2017)
Zone 2 – Run-outs (BASE BID)	Summer Break Only (June 19, 2017 – August 31 st , 2017)
Zone 6 – Run-outs (ALT#1)	Summer Break Only (June 19, 2017 – August 31 st , 2017)
Zone 6 – Utilidor (ALT #2)	Summer Break Only (June 19, 2017 – August 31 st , 2017)
Zone 3 – Redbrick Dorm Run-Outs Only Bldgs.105, 106, 107 & 108 (ALT #3)	Summer Break Only (June 19, 2017 – August 31 st , 2017)
Zone 3 – Utilidor (ALT #4)	Summer Break Only (June 19, 2017 – August 31 st , 2017) NOTE: Isolation Valves must be installed 6/19/17-6/23/17 at Utilidor to allow Grand Ave segment to be recharged

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1.03 CONTRACTOR USE OF PREMISES

A. General:

1. Refer to Contract General Conditions, Article 4.00.
2. Do not cause unreasonable delay or hindrance, or impose hardship on the public, students, University, or others engaged in University work.
3. Schedule construction activities to minimize disruption to the University and to University users.
4. Do not interrupt University utilities without prior written permission from the Trustees.
5. Confine operations at sites to areas permitted Contract Documents.
6. Do not unreasonably encumber site with materials or equipment.
7. Protect Contractor's and Trustees' material stored on premises. Keep site and building secure.
8. Obtain and pay for use of additional storage or Work areas that may be required for operations.
9. Limit use of site for Contract Work and storage.
10. Do not overload structure.

1.04 TRUSTEES OCCUPANCY

- A. The use of the pipeline will commence immediately after work is accepted and/or approved. Run-outs and Utilidor piping must be reenergized immediately once approved for use. Warranty period will not begin until entire Project is accepted (There will be no partial acceptance and/or partial warranty periods).
- B. Cooperate with Trustees to minimize conflict and to facilitate University operations.
- C. Schedule Work to accommodate Trustees' occupancy.

1.05 SPECIAL UNIVERSITY REQUIREMENTS AND CONTROLS

- A. Preservation: Existing buildings, slabs, walks, paving, landscaping and other improvements, which are to remain, either adjacent to new construction or elsewhere on the University, shall be protected from damage or defacement. Damage or defacement caused by the Contractor shall be repaired or replaced to the satisfaction of the Trustees. Repairs to damaged asphalt paving shall be made with hot asphalt. Repairs to other damaged surfaces shall be made with in kind material to a like new condition regardless of its existing condition.
- B. Salvage: The Trustees shall have first rights of salvage for items. Salvage items removed in connection with this work are to remain the property of the Trustees and shall be delivered to the campus location designated by the Trustees Representative. If the Trustees waive salvage rights for an item, the item becomes the property and responsibility of the Contractor. Comply with Section 01749 - Construction Waste Management and Disposal.

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- C. Issuance of University Keys: Keys to work areas, if required, must be obtained from the Trustees Representative. The Contractor or an authorized representative shall sign for receipt of keys. Upon completion of the work, keys shall be returned to the Trustees Representative. If the Contractor fails to return keys issued, the Contractor shall be liable for the total cost of labor and materials to re-key areas accessible with the lost keys. Final payment shall not be authorized until keys have been accounted for.
- D. Contract Work Limits: Areas affected by this project.
1. Exception: Unless noted on the drawings.
- E. Existing University Utilities:
1. Notify Trustees seven (7) calendar days minimum in advance of intended interruption of utility services.
I. Required interruptions: Incorporate into Contractor's construction schedule.
II. Times and dates for interruptions: At the discretion of the Trustees, and may be on a Saturday, Sunday, holiday during quarter break, or after normal working hours and beyond seven (7) calendar days after notifications.
2. Identify and locate known underground utilities.
I. Trustees will provide access to known documentation before bid and during construction.
II. Contact Facilities Planning and Capital Projects for existing utility atlas.
i. Most underground utilities at Cal Poly are not "Public" and cannot be located by calling Underground Service Alert (800) 642-2444.
3. Undocumented utilities: Refer to Part B - Contract General Conditions, Article 4.08.e Utilities.
4. Show utility interruptions on the Contractor's monthly schedule update and 3-week look-ahead schedule.
- F. Holidays, Quarter Breaks, Weekends:
1. Prior to start of construction: Obtain a calendar from the Trustees showing major campus events, study and examination periods, holidays and quarter breaks.
2. Disruptive work: Discouraged during study and exam times, and major campus events.
3. The Contractor may be asked to suspend work and/or deliveries during the following, or similar University events:

Commencement:	Generally the third Saturday in June Generally the third Saturday in December
Open House:	Generally the third Friday and Saturday in April
Week of Welcome:	Generally the week before Fall Quarter
Residence Hall Move-in:	Generally weekend before Fall Quarter
Finals Weeks:	Generally the third week in March

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	The week before June commencement The week before December commencement
Residence Hall Move-in and -out:	Generally the third week in September; Second week in December First week in January Week before June commencement

4. For scheduling purposes, anticipate five (5) University event related non-work days in each calendar year. Extension of the contract time shall not be allowed for these non-work days.
5. For noise control, refer to Section 01500 – Temporary Facilities and Controls.

1.06 CONTRACTOR'S DUTIES

- A. Provide and pay for:
 1. Labor, material and equipment.
 2. Tools, construction equipment and machinery.
 3. Telephone, fax, computer and communication services. See Section 01500 – Temporary Facilities and Controls.
 - I. Telephone: pay for the connection to University system and pay for services.
 - II. Make arrangements with University to activate telephone and communication services.
 - III. Make connections and provide labor, materials and equipment for site distribution of Contractor's phone and communication services.
 4. Water and Utilities: See Specification Section 01500 – Temporary Facilities and Controls.
 - I. Pay for and make connections and provide labor, materials and equipment for site distribution of temporary utilities from the Campus' point of connection.
 - II. Remove temporary utilities from the site when the work is completed.
 - III. Pay for water and electricity for construction.
 5. Other facilities and services necessary for proper execution and completion of Work.
- B. Pay legally required sales, consumer and use taxes.
- C. Secure and pay for site-specific costs for proper execution and completion of Work, and as applicable at time of receipt of bids.
 1. Licenses
 2. Permits and Fees
 3. Governmental Fees
 4. Royalties
- D. Give required notices.

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- E. Comply with codes, ordinances, rules, regulations, orders and other legal requirements of public authorities, which bear on performance of Work.
 - 1. The Contractor shall certify in writing that no materials containing Asbestos are incorporated in the work, the Asbestos Hazard Emergency Regulations Act.
- F. Promptly submit written notice to Trustees Representative of observed variance of Contract Documents from legal requirements.
 - 1. Architect will prepare modifications to Contract Documents for required changes.
 - 2. If Contractor observes work known to be contrary to requirements, and does not notify the Trustees Representative, then Contractor assumes responsibility for work not meeting the requirements.
- G. Enforce strict discipline and good order among employees. Do not employ on Work:
 - 1. Unfit persons.
 - 2. Persons not skilled in assigned task.
- H. Comply with Cal Poly Sexual Harassment Policy. Advise sub-contractors in writing and post policy in prominent place. Cal Poly Sexual Harassment Policy website is http://www.employequity.calpoly.edu/sexual_harassment_prevention.html

1.07 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 16-division format and CSI/CSC's "1995 MasterFormat" numbering system.
 - 1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
 - 2. Division 01: Sections in Division 01 shall apply to the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to

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be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.

- I. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

- C. Drawing Keynotes: Throughout the drawings, specification keynotes are used to reference work and indicate the general section of the specifications in which the noted work is addressed. The keynotes do not define or limit the scope to a particular trade or section. Coordinate a complete scope of work.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

SUMMARY OF WORK

01 11 00 - 9

Sept. 2016 Rebid - ADDENDUM #01

SECTION 01 23 00

BID ALTERNATIVE PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Construction Drawings, Technical Specifications, Addenda, and general provisions of the Contract, including Contract General Conditions and Supplementary General Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SECTION INCLUDES

- A. Requirements and descriptions for products and scopes of Work identified as Bid Alternative in the Drawings and Specifications and listed as " Bid Alternative " on the Bid Proposal Form.

1.3 RELATED DOCUMENTS AND SECTIONS

- A. Division 2 through Division 17: Refer to product Specification Sections indicated in Bid Alternative descriptions and as may be affected by alternate products and scope descriptions.

1.4 GENERAL REQUIREMENTS FOR ALTERNATIVES

- A. To enable University to compare total costs where alternative materials and methods might be used or where scope of Work might be altered, Bid Alternative Work items have been established as described in this Section.
1. Unless otherwise specifically provided, the work described in Alternatives shall be completed with no increase in Contract Time.
 2. Alternatives will be accepted in the order listed until the Construction Budget is reached.
- B. Contract Amount included in Base Bid and as stated in executed Agreement shall include all costs for Work described in Contract Documents.
- C. Contract Amount shall include all necessary provisions for Work described in alternatives, whether or not Alternatives are accepted. Base Bid specifications shall govern Work of alternatives unless otherwise specified.
- D. Bid Proposal Form or other means prescribed for submission of proposed cost of Work shall include line items for each Alternative described in this Section. No Alternatives other than as described in this Section shall be submitted, except in accordance with product options and substitutions provisions specified in Section 01610, Basic Product Requirements.
- E. Each Alternative is identified herein by number. This identification shall be used whenever referring to Work described in Alternative and when submitting cost proposals and payment requests.
- F. Alternative construction described in Alternatives and revised scopes of Work shall be performed only when such Alternative is made a part of the Work by specific provision in the University-Contractor Agreement, if selected by University prior to execution of the

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Agreement, or by Change Order or Change Directive if selected subsequent to execution of the Agreement.

- G. Costs for Alternatives shall be valid for no less than 60 calendar days from date of Agreement, and University may select any or all Alternatives during that time. Once an Alternative is selected and the Contract modified for Work as described in the Alternative, changes to return to original scope of Work will be made only by Change Order or Change Directive in accordance with provisions of the Contract General Conditions for changes.

1.5 PRODUCTS AND EXECUTION

- A. If University elects to proceed on the basis of one or more of the described Alternatives, Contractor shall make all modifications to Work as required to provide products complete, in place and fully functional, including all labor, equipment, services and incidental consumables necessary to apply, install and finish Work described in Alternative in accordance with requirements specified in related product Sections of these Specifications.
- B. Cost for Alternatives shall be complete and include all net increases and decreases in Contract Amount for Work described in Alternative and for all changes in related Work. No claims for additional costs to University will be honored other than as stated in cost proposal for each Alternative.

1.6 ALTERNATIVES

1. **Additive Alternate No. 1 - Utilidor Piping in Zone 6 (RUN-OUT PIPING ONLY):** See Drawing M0.5, and provide removal and replacement of existing piping, fittings, and all associated work per Plans and Specs. (Ref. also SUMMARY OF WORK 01010-1.02).
2. **Additive Alternate No. 2 - Utilidor Piping in Zone 6 (UTILIDOR PIPING ONLY):** See Drawing M0.5, and provide removal and replacement of existing piping, fittings, and all associated work per Plans and Specs. (Ref. also SUMMARY OF WORK 01010-1.02).
3. **Additive Alternate No. 3 - Utilidor Piping in Zones 3 Buildings 105, 106, 107 & 108 Only (RUN-OUT PIPING ONLY):** See Drawing M0.5, and provide removal and replacement of existing piping, fittings, and all associated work per Plans and Specs. (Ref. also SUMMARY OF WORK 01010-1.02).
4. **Additive Alternate No. 4 - Utilidor Piping in Zone 3 (UTILIDOR PIPING ONLY):** See Drawing M0.5, and provide removal and replacement of existing piping, fittings, and all associated work per Plans and Specs. (Ref. also SUMMARY OF WORK 01010-1.02).
5. **Deductive Alternate No. 1 - Utilidor Piping in Zone 1 (UTILIDOR PIPING ONLY):** See Drawing M0.5, and provide removal and replacement of existing piping, fittings, and all associated work per Plans and Specs. (Ref. also SUMMARY OF WORK 01010-1.02).

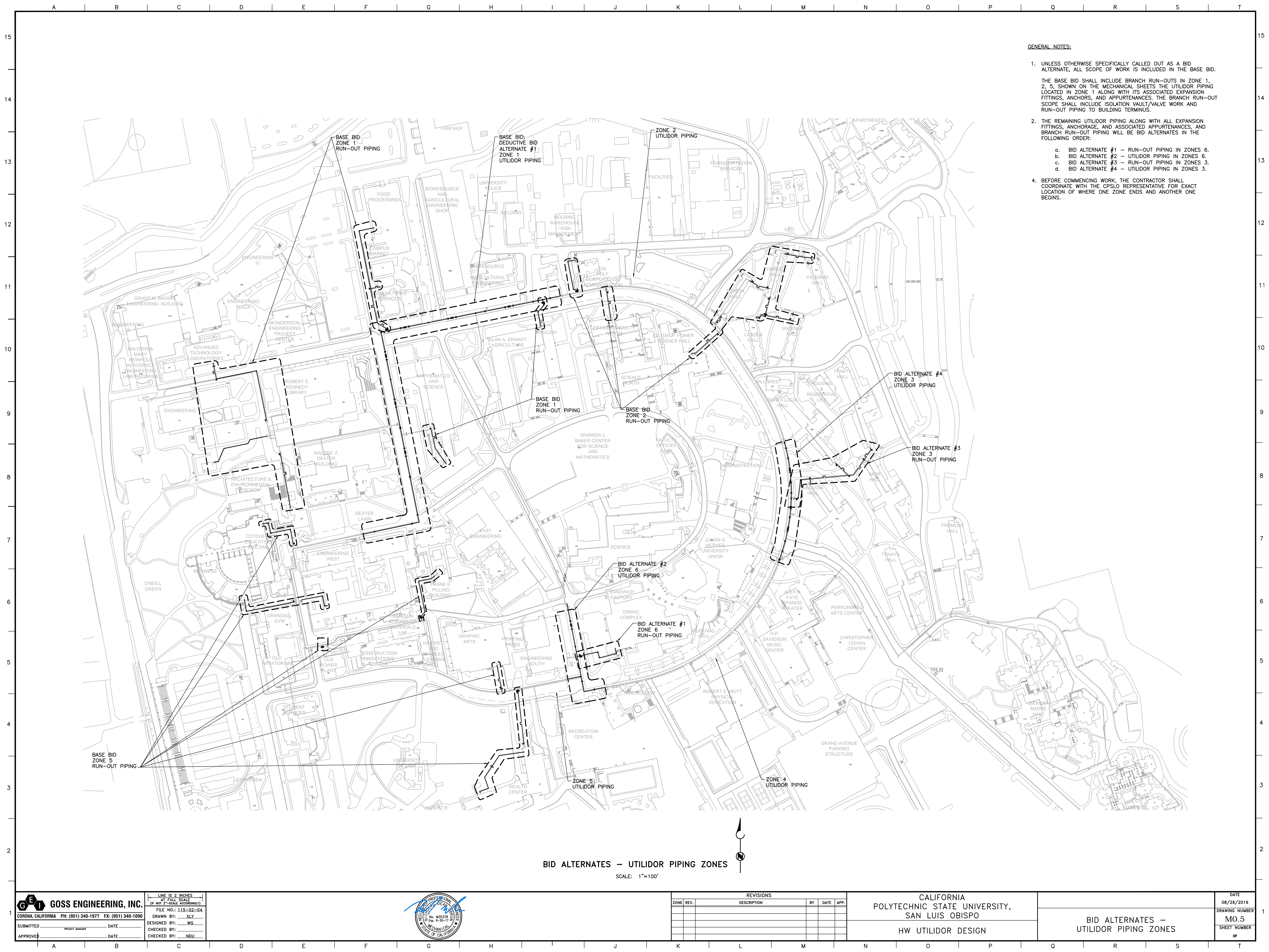
PART 2 - PRODUCTS

Not Applicable to this Section.

PART 3 - EXECUTION

Not Applicable to this Section.

END OF SECTION

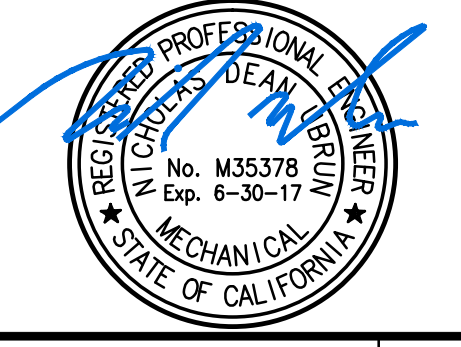


- GENERAL NOTES:**
- UNLESS OTHERWISE SPECIFICALLY CALLED OUT AS A BID ALTERNATE, ALL SCOPE OF WORK IS INCLUDED IN THE BASE BID.
 THE BASE BID SHALL INCLUDE BRANCH RUN-OUTS IN ZONE 1, 2, 5, SHOWN ON THE MECHANICAL SHEETS THE UTILIDOR PIPING LOCATED IN ZONE 1 ALONG WITH ITS ASSOCIATED EXPANSION FITTINGS, ANCHORS, AND APPURTENANCES. THE BRANCH RUN-OUT SCOPE SHALL INCLUDE ISOLATION VAULT/VALVE WORK AND RUN-OUT PIPING TO BUILDING TERMINUS.
 - THE REMAINING UTILIDOR PIPING ALONG WITH ALL EXPANSION FITTINGS, ANCHORAGE, AND ASSOCIATED APPURTENANCES, AND BRANCH RUN-OUT PIPING WILL BE BID ALTERNATES IN THE FOLLOWING ORDER:
 - BID ALTERNATE #1 - RUN-OUT PIPING IN ZONES 6.
 - BID ALTERNATE #2 - UTILIDOR PIPING IN ZONES 6.
 - BID ALTERNATE #3 - RUN-OUT PIPING IN ZONES 3.
 - BID ALTERNATE #4 - UTILIDOR PIPING IN ZONES 3.
 - BEFORE COMMENCING WORK, THE CONTRACTOR SHALL COORDINATE WITH THE CPSLO REPRESENTATIVE FOR EXACT LOCATION OF WHERE ONE ZONE ENDS AND ANOTHER ONE BEGINS.

BID ALTERNATES - UTILIDOR PIPING ZONES
 SCALE: 1"=100'

GOSS ENGINEERING, INC.
 CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090
 SUBMITTED: _____ DATE: _____
 APPROVED: _____ DATE: _____

LINE IS 2 INCHES AT FULL SCALE (OF NOT 2" SCALE ACCORDINGLY)
 FILE NO.: 115-02-04
 DRAWN BY: XLY
 DESIGNED BY: WG
 CHECKED BY: NDU



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

CALIFORNIA
 POLYTECHNIC STATE UNIVERSITY,
 SAN LUIS OBISPO
 HW UTILIDOR DESIGN

BID ALTERNATES - UTILIDOR PIPING ZONES
 DATE: 08/26/2016
 DRAWING NUMBER: M0.5
 SHEET NUMBER: _____ OF _____