



State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

ADDENDUM # 3

8/4/14
Solicitation #7548895

Title: Emergency Steam and Condensate Repair – Residence Halls, Rhode Island College

Submission Deadline: August 18, 2014 @ 10:00 AM (ET)

Per the issuance of ADDENDUM # 3 the following are noted:

- Vendor Questions
- Drawings
- Revised Bid Form

Note: Prospective bidder and all concerned are hereby advised of the attached documents for the above referenced RFQ. All proposals submitted **must use revised Bid Form when submitted proposal.**

Interested Parties should monitor this website on a regular basis, for any additional information that may be posted.

Gary P. Mosca
Senior Buyer

Solicitation #:7548895

Solicitation Title: Emergency Steam and Condensate Repair – Residence Halls – RIC

BID FORM

To: The State of Rhode Island Department of Administration
Division of Purchases, 2nd Floor
One Capitol Hill, Providence, RI 02908-5855

Bidder:

Legal name of entity	

Address (street/city/state/zip)	
_____	_____
Contact name	Contact email
_____	_____
Contact telephone	Contact fax

Project: RIC – Residence Halls – Steam Upgrades Project
600 Mount Pleasant Ave. Providence, R.I. 02908

1. BASE BID PRICE

The Bidder submits this bid proposal to perform all of the work (including labor and materials) described in the solicitation for this Base Bid Price (*including the costs for all Allowances, Bonds, and Addenda*):

A. Total Cost to perform all work shown on the bid documents:

\$ _____
(base bid price *in figures* printed electronically, typed, or handwritten legibly in ink)

(base bid price *in words* printed electronically, typed, or handwritten legibly in ink)

B. Allowances = + \$38,500.00

BASE BID PRICE TOTAL (SUM OF A +B) = _____

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- **Allowances**

The Base Bid Price ***includes*** the costs for the following Allowances:

Line Number	Allowances	Quantity	Unit	Unit Price	Total
1	Rock Removal	50	CY	\$200.00	\$10,000.00
2	Soil Disposal (Regulated)	25	TON	\$100.00	\$2,500.00
3	Soil Disposal (Hazardous Waste)	25	TON	\$200.00	\$5,000.00
4	6" Underground HPS Piping (Installed & backfilled)	25	L.F.	\$350.00	\$8,750.00
5	3" Underground PC Piping (Installed & backfilled)	25	L.F.	\$300.00	\$7,500.00
6	Above ground 4" HPS Piping (Insulated with Hangers)	25	L.F.	\$100.00	\$2,500.00
7	Above ground 2" PC Piping (Insulated with Hangers)	30	L.F.	\$75.00	\$2,250.00
Totals					\$38,500.00

Notes: 1. All allowances shall be approved by RIC before work is started. Contractor to provide cost estimate with detailed breakdown for approval.

2. Any portion of the allowances not used during construction shall be credited to the Owner.

- **Bonds**

The Base Bid Price ***includes*** the costs for all Bid and Payment and

Solicitation #: 7548895

Solicitation Title: Emergency Steam and Condensate Repair – Residence Halls – RIC

Performance Bonds required by the solicitation.

- **Addenda**

The Bidder has examined the entire solicitation (including the following Addenda), and the Base Bid Price **includes** the costs of any modifications required by the Addenda.

All Addenda must be acknowledged.

Addendum No. 1 dated: _____

Addendum No. 2 dated: _____

Addendum No. 3 dated: _____

2. ALTERNATES (Additions/Subtractions to Base Bid Price)

The Bidder offers to: (i) perform the work described in these Alternates as selected by the State in the order of priority specified below, based on the availability of funds and the best interest of the State; and (ii) increase or reduce the Base Bid Price by the amount set forth below for each Alternate selected.

Check "Add" or "Subtract."

Description of Alternate No. 1: No Alternates

____ Add ____ Subtract Alternate No. 1: _____

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3. UNIT PRICES

The Bidder submits these predetermined Unit Prices as the basis for any change orders approved in advance by the State. These Unit Prices include **all** costs, including labor, materials, services, regulatory compliance, overhead, and profit.

Unit Price No. 1: _____ \$ _____

Unit Price No. 2: _____ \$ _____

Unit Price No. 3: _____ \$ _____

4. CONTRACT TIME

The Bidder offers to perform the work in accordance with the timeline specified below:

- Start of construction: Date of PO Issuance
- Substantial completion: 90 Days after Date of PO Issuance
- Final completion: 100 Days after Date of PO Issuance

***Note: Per Pre-Bid Meeting an additional 30 days in the spring will be provided for top soil and seeding only.**

5. LIQUIDATED DAMAGES

The successful bidder awarded a contract pursuant to this solicitation shall be liable for and pay the State, as liquidated damages and not as a penalty, the following amount for each calendar day of delay beyond the date for substantial completion, as determined in the sole discretion of the State: \$750.00 per day. **Substantial completion is defined in the pre-bid response to questions.**

Solicitation #:7548895

Solicitation Title: Emergency Steam and Condensate Repair – Residence Halls – RIC

This bid proposal is irrevocable for 60 days from the bid proposal submission deadline.

If the Bidder is determined to be the successful bidder pursuant to this solicitation, the Bidder will promptly: (i) comply with each of the requirements of the Tentative Letter of Award; and (ii) commence and diligently pursue the work upon issuance and receipt of the purchase order from the State and authorization from the user agency.

The person signing below certifies that he or she has been duly authorized to execute and submit this bid proposal on behalf of the Bidder.

BIDDER

Date: _____

Name of Bidder

Signature in ink

Printed name and title of person signing on behalf of Bidder
#

Bidder's Contractor Registration Number

7/25/14

Pre-Bid Conference

Solicitation #7548895

Titled: Emergency Steam and Condensate Repair – Residence Halls – Rhode Island College

Vendor Questions & Clarifications:

Question: Where is the termination point?

Response: Just get into the building and reconnect inside the mechanical rooms.

Question: Flash Tanks; there are only two on the entire campus, one in the boiler room and the other in the Sweet Hall pit. Are we adding any flash tanks?

Response: Tie in as current; all have valves within mechanical room.

Question: Are Drip – T raisers going to be solely underground?

Response: Yes

Question: Is there Ledge on the project site? If so how will this be handled?

Response: Unit pricing to be provided on the bid form.

Question: Will Steam Vaults will be above ground or below ground.

Response: Below ground

Question: What is Completion date?

Response: 90 Days for substantial completion or beneficial use. This would include the steam piping back filled and all fencing removed along with O&M's and as-builts submitted for review. 30 days will be allowed in the spring time for top soil and seeding only.

Question: If we are running temporary lines and all area is fences in and covered for protection, 90 days is cutting very close. There are obstacles that would slow it down.

- There is a six to eight week lead time for pipe
- Drawings need to go to engineer for approval and then to Revanco for approval
- Paving will be a problem
- A surveyor also needs to be brought in prior to anything being done
- There is a requirement for polyethylene coating above and below, but no hazardous conditions exist

Response: *We will delete the surveyor requirement on C3.0 however, all existing utility locations and elevations are still to be confirmed by the contractor prior to construction. Any new items found which do not match the plans must be brought to the Engineers attention prior to construction for review. No work shall proceed until authorized by the Engineer. Soil management requirements remain unchanged. With regards to the paving; the paving may be delayed, however this will be dependent on substantial completion date. Substantial completion will exclude final restoration. The contractor will need to provide a schedule for final restoration to be reviewed and approved by the College. A revised C3.0 has been uploaded to the State website if needed.*

Question: If we are providing temporary pipe to every one of the buildings why do we have this 90 day substantial completion with a penalty?

Response: *Because the college wants the project completed in a timely manner. The penalty will apply if the 90 day substantial completion is not complete as defined in previous question.*

Question: Question: The spec says 3rd party compaction tests will be done by the contractor, however we don't know how many therefore, how can we have an equal bid?

Response: *RIC will own the compaction tests rather than the contractor*

Question: There is a 15 day period for submittal review, if everything being used is 100% per spec then is a submittal necessary?

Response: *Yes, submittals are necessary, however the review period will only be two days.*

Question: Do you want us to top soil, seed, and pave at the end of the project?

Response: *This will be dependent on substantial completion date. Substantial completion will exclude final restoration. The contractor will need to provide a schedule for final restoration to be reviewed and approved by the College.*

Question: The spec calls for grass mowing to be done over 4 seasons?

Response: *It should be done 4 times rather than 4 seasons.*

Question: Are there Health and safety (HAS) requirements that have been written by the college engineer?

Response: *No.*

Question: Do we need a full time water truck on site for dust control?

Response: *No, but you will need to have one ready as needed.*

Question: Are electronic copies rather than 4 hard copies okay to submit?

Response: Yes.

Question: Would a national certification of welders submitted 5 days before start be acceptable rather than welders' certification?

Response: Yes.

Question: The specs mention field welding?

Response: We will leave methods and materials to the contractor.

Question: Polyethylene covering: Spec indicates all piles covered above and below with 6 mil poly? If not hazardous is that a necessary requirement?

Response: Refer to the soil management plan.

Question: Seed dates 3/15/14 to 5/15/14, & 8/15/14 to 10/1/14 I assume you still want spray and stabilize whether it is a winter blend?

Response: Please refer to Specification Section 32 92 00, Section 3.6.A.

Question: Soil sampling; Is soil sampling of all reused material? Is that to be submitted or will RIC being doing that in house?

Response: Yes soil testing will be required of all reused materials. RIC will own the laboratory tests rather than the contractor.

Question: Are 4 sets of shop drawings; Can we take an electronic copy of the Rovanco drawing?

Response:

Question: End of project, 8 hours pf testing for the owner and familiarize them with equipment.

Response: Delete this requirement

Question: Seismic requirements?

Response: No

Question: Qualifications of Welders: will UA certifications and Nationally accepted certifications will be accepted?

Response: Yes

Question: Field Welding; Minimize welding in trenches. Are you looking for above grade fabrication?

Response: No

Question: 150 lb. hydro-static on the steam and condensate, what to clarify that is what is wanted?

Response: *150 # air test in lieu of hydro-static test for 4 hours maximum to be witnessed and signed off by RIC is acceptable.*

Question: What is the pressure in the steam lines is it low or minimum?

Response: *75 psig*

Question: Air pressure test at 150 lb. is that for 8 hours or 4 hours?

Response: *150 lb. air test for a maximum of four hours*

Question: Can landscaping be deferred to spring?

Response: *Yes please refer to Specification Section 32 92 00, Section 3.6.A.*

Question: Can Substantial Completion and Final Completion be redefined?

Response: *See answers to response above.*

Question: Can we please confirm the scales on drawings H3.0 and H5.0. There are three different size drawings on those two pages that all have the same scale of 1"=30'-0".

Response: *The small temporary tie-in plan is not to scale. It is to be used for pipe sizing and notes only. H5.0 scale is correct. The large Demo plan on H3.0 is off a bit. H5.0 and site plans C1.0 and C2.0 can be used for scaling if needed. A new properly scaled H3.0 will be uploaded to the State website also.*

Clarifications:

- Condensate is AO smith green thread fiber glass. Install fiberglass flange and transition to the new steel piping.
- Walkways will need to provide fire truck access
- Delete spec sections 00020 and 00300
- It is the contractor's responsibility to complete ledge probing at 25' spacing along the proposed pipe route and create a ledge profile for review with the Owner and Engineer (Arden) within 10 days of P.O. The cost of this investigation shall be borne by the Contractor.
- Change 3'x3' access doors on the steam vaults to 6'x6'
- No onsite toilet facilities will be available to the Contractors. A portable toiler will be required.
- No access to the Residence Halls will be permitted without being accompanied by RIC personnel.
- Contractor shall include a minimum of 10 test pits in the base price and include in Base Price any additional test pits needed to install the new piping. No additional payment will be made of test pits.

SITE NOTES:

- EXISTING CONDITIONS, IN AUTOCAD FORMAT, WERE PROVIDED BY RHODE ISLAND COLLEGE.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE LATEST AVAILABLE INFORMATION. THE UTILITY LOCATIONS ARE APPROXIMATE AND MAY NOT BE ALL INCLUSIVE. THE CONTRACTOR SHALL CHECK AND VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, BOTH OVERHEAD AND UNDERGROUND, AND "DIG-SAFE" MUST BE NOTIFIED PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS. RESTORATION AND REPAIR OF DAMAGE TO EXISTING UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. NO EXCAVATION SHALL COMMENCE UNTIL ALL INVOLVED UTILITY COMPANIES AND/OR CITY WHOSE FACILITIES MIGHT BE AFFECTED BY ANY WORK TO BE PERFORMED BY THE CONTRACTOR ARE NOTIFIED AT LEAST 72 HOUR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) OF ALL MATERIALS INDICATED ON THE PLANS.
- STOCKPILES OF EARTH MATERIALS SHALL NOT BE LOCATED ADJACENT TO DRAINAGE STRUCTURES.
- ALL DISTURBED AREAS OUTSIDE OF THE PAVED AREAS WILL RECEIVE A MINIMUM OF 6" OF LOAM AND SEED.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SURVEY LAYOUT SERVICES FOR THE WORK AND SHALL SUBMIT "AS-BUILT" DRAWINGS OF ALL WORK, WHICH SHALL BE STAMPED AND CERTIFIED BY A RHODE ISLAND REGISTERED PROFESSIONAL LAND SURVEYOR OR A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
- ANY ITEM OF WORK NOT SPECIFICALLY INDICATED ON THE PLANS BUT IS REQUIRED FOR THE COMPLETE CONSTRUCTION OF THE PROJECT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND INCLUDED IN THE CONTRACT BID PRICE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
- WHERE NECESSARY TO REMOVE MAHOLES, HANDHOLES, CATCH BASINS OR DRAINS TO COMPLETE THE WORK, THE CONTRACTOR SHALL REPLACE SUCH ITEMS TO THE SATISFACTION OF THE OWNER AND THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- ANY EXISTING PIPE OR UTILITY DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION OR REPLACE TREES, SHRUBS, FENCES, SIGNS, GUARDRAILS, DRIVEWAYS, SIDEWALKS AND ANY OTHER OBJECT AFFECTED BY CONSTRUCTION OPERATIONS.
- THE TOPS OF ALL VALVE BOXES AND CURB BOXES SHALL BE FLUSH WITH GROUND OR PAVEMENT SURFACE LEVEL AND PLUMB, UNLESS OTHERWISE DIRECTED.
- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WET POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE OF ALL SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
- ALL SITE WORK SHALL CONFORM TO THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION, 2004 EDITION (WITH LATEST ADDENDA) AND THE RIDOT STANDARD DETAILS, 1998 EDITION (WITH LATEST ADDENDA).

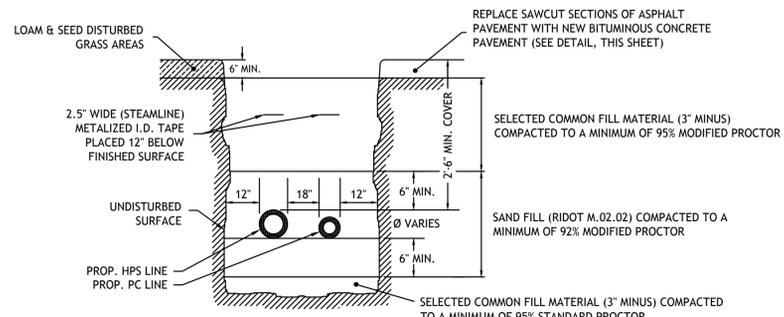
MISCELLANEOUS UTILITY NOTES:

- PRIOR TO CONSTRUCTION ALL POTENTIAL UTILITY/DRAINAGE CONFLICTS MUST BE IDENTIFIED BY THE CONTRACTOR. ANY MODIFICATIONS TO THE PROPOSED UTILITIES TO AVOID CONFLICTS MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONFINED HIS CONSTRUCTION OPERATIONS AND ACTIVITIES TO WITHIN THE LIMIT OF DISTURBANCE LINE AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER. ALL GRASSED AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE LOAMED AND SEED. ALL DISTURBED CONCRETE SIDEWALKS SHALL BE RESTORED PER RIDOT STANDARD DETAIL NO. 43.1.0. ALL DISTURBED BITUMINOUS CONCRETE SIDEWALKS SHALL BE RESTORED PER RIDOT STANDARD DETAIL 43.2.0. DISTURBED BITUMINOUS PAVED AREAS SHALL BE RESTORED WITH 1.5 INCHES OF BIT. CONCRETE SURFACE COURSE (CLASS 101) OVER 1.5 INCHES OF BIT. CONCRETE BINDER COURSE, OVER A MINIMUM OF 8 INCHES OF COMPACTED GRAVEL BORROW.
- ALL CONSTRUCTION MATERIALS, AS WELL AS ALL MATERIAL SHOP DRAWINGS AND MANUFACTURERS DATA SHEETS SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER, OR ITS REPRESENTATIVE PRIOR TO FABRICATION AND INSTALLATION.

- LAYOUT NOTE:**
- THE LAYOUT SHOWN REPRESENTS A GRAPHICAL DESIGN, AND PRIOR TO THE CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR (PLS) REGISTERED IN THE STATE OF RHODE ISLAND TO SET AND VERIFY ALL LINES AND GRADES. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY ITEMS FOUND WHICH DO NOT MATCH THE PLANS MUST BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO CONSTRUCTION FOR REVIEW. NO WORK SHALL PROCEED UNTIL AUTHORIZED BY THE ENGINEER.
- SOIL EROSION AND SEDIMENTATION CONTROL NOTES**
- THE LIMITS OF CLEARING, GRADING, AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THESE LIMITS, AS DEPICTED ON THE PLAN SHALL BE TOTALLY UNDISTURBED, TO REMAIN IN NATURAL CONDITION.
 - ALL CATCH BASINS AND CULVERTS SHALL BE PROTECTED WITH STAKED HAYBALES (R.I. STD. 9.8.0) DURING CONSTRUCTION ACTIVITIES. ALL PROPOSED STORMWATER DISCHARGE AREAS SHALL BE LINED WITH A RIPRAP SPLASH PAD AND PROTECTED WITH STAKED HAYBALE WITH SILT FENCE (R.I. STD. 9.3.0) AND STAKED HAYBALE WITH SILT FENCE SHALL ALSO BE INSTALLED AT ALL EXISTING STORMWATER DISCHARGE LOCATIONS.
 - ALL SILT FENCE, TEMPORARY TREATMENT (HAY, STRAW, ETC.) AND TEMPORARY EROSION PROTECTION SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
 - STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS. THEY SHALL HAVE SIDE SLOPES OF NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEED AND/OR STABILIZED PER CONTRACT SPECIFICATIONS.
 - THE HAYBALES SHALL BE CHECKED BY THE CONTRACTOR ON A WEEKLY BASIS AND AFTER EACH STORM FOR UNDERMINING OR DETERIORATION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY HAYBALES AS NEEDED. THE CONTRACTOR SHALL CLEAN THE ACCUMULATED SEDIMENT IF HALF OF THE ORIGINAL HEIGHT OF THE HAY-BALES BECOMES FILLED WITH SEDIMENTS.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (HAYBALES, SILT FENCE, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR RESEEDING ALL AREAS THAT DO NOT DEVELOP WITHIN ONE YEAR FROM THE COMPLETION OF CONSTRUCTION.
 - ALL REFERENCED SOIL EROSION AND SEDIMENTATION CONTROLS INCLUDING MATERIALS USED, APPLICATION RATES AND THE INSTALLATION PROCEDURES SHALL BE PERFORMED PER THE "RHODE ISLAND DEPARTMENT OF TRANSPORTATION AND SEDIMENTATION HANDBOOK", DATED 1993.
 - THE OPERATOR SHOULD INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

- PERIMETER FENCING NOTES:**
- PERIMETER FENCING SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR TO ENCLOSE AND SECURE THE PROJECT SITE AND ASSOCIATED LAYDOWN / STOCKPILE AREAS.
 - PERIMETER FENCING SHALL CONSIST OF 6-FOOT-HIGH x 12-FOOT-LONG PANELS WITH BASES AT EACH POST LOCATION. BASES MAY BE SECURED BY SAND BAGS OR BY CONCRETE BLOCKS.
 - PANEL FRAMES AND BASES SHALL BE CONSTRUCTED OF 1-3/8" COPED AND FULLY WELDED GALVANIZED STEEL. FENCING MESH SHALL BE #11.5 GA., 6" HIGH GALVANIZED STEEL CHAIN LINK MESH HELD WITH GALVANIZED TENSION BANDS.

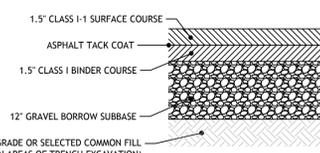
1. LOCATION OF EXISTING UTILITIES SHOWN, ARE FROM GATE LOCATION AND EXISTING DOCUMENTATION AND MAY NOT BE ACCURATE. EXACT LOCATION TO BE DETERMINED BY THE APPROPRIATE UTILITY COMPANY OR MUNICIPALITY PRIOR TO ANY EXCAVATION CALL DIGSAFE AT: 1-888-DIG-SAFE



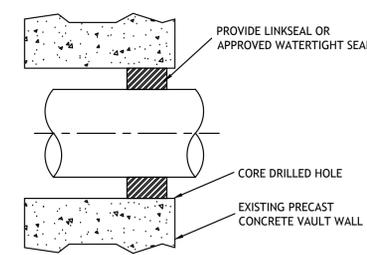
NOTES:

- ROADWAY RESTORATION IN ACCORDANCE WITH RIDOT STANDARD SPECIFICATIONS.

STEAM TRENCH DETAIL
NOT TO SCALE



PROPOSED PAVEMENT DETAILS
NOT TO SCALE



VAULT PIPE PENETRATION DETAIL
NOT TO SCALE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CURB SETTING DETAIL
R.I. STANDARD 7.6.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
TREE PROTECTION DEVICE
R.I. STANDARD 51.1.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SILT FENCE DETAIL
R.I. STANDARD 9.2.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
R.I. STANDARD 9.9.0

Oldcastle Precast POWER & ENERGY
12'-0\"/>

STEAM VAULT DETAIL
NOT TO SCALE

- NOTES:**
- FLOOR ACCESS DOOR TO BE INSTALLED AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLAN. ACCESS DOOR SHALL BE BILCO MODEL J-44LH20 (3x3) OR APPROVED EQUAL.
 - EXCAVATION FOR PRECAST CONCRETE VAULTS SHALL EXTEND A MINIMUM OF 18 INCHES WIDER THAN THE BASE OF THE STRUCTURE AND 6 INCHES BELOW THE BASE OF THE STRUCTURE.
 - THE OVER-EXCAVATED AREA SHALL BE BACKFILLED WITH GRAVEL BORROW PLACED IN A MAXIMUM 6-INCH-THICK LOOSE LIFTS AND COMPACTED TO 95% MODIFIED PROCTOR.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PRECAST CONCRETE CURB
R.I. STANDARD 7.1.0

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
BITUMINOUS CONCRETE SIDEWALK
R.I. STANDARD 43.2.0

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KEY PLAN

GRAPHIC SCALES

NORTH ARROW

REGISTRATION

REV.	DATE	DRF'D	DES'D	CHK'D	PURPOSE OF ISSUE/REVISION
C	7/30/14	DRD	DRD	JAC	ADDENDUM NO. 1
B	7/11/14	DRD	DRD	JAC	ISSUED FOR BID
A	7/7/14	DRD	DRD	JAC	ISSUED FOR STATE REVIEW

ISSUED FOR BID

SCALE: AS NOTED

FILE NAME: RIC Residence Hall Steam [PLANSET]

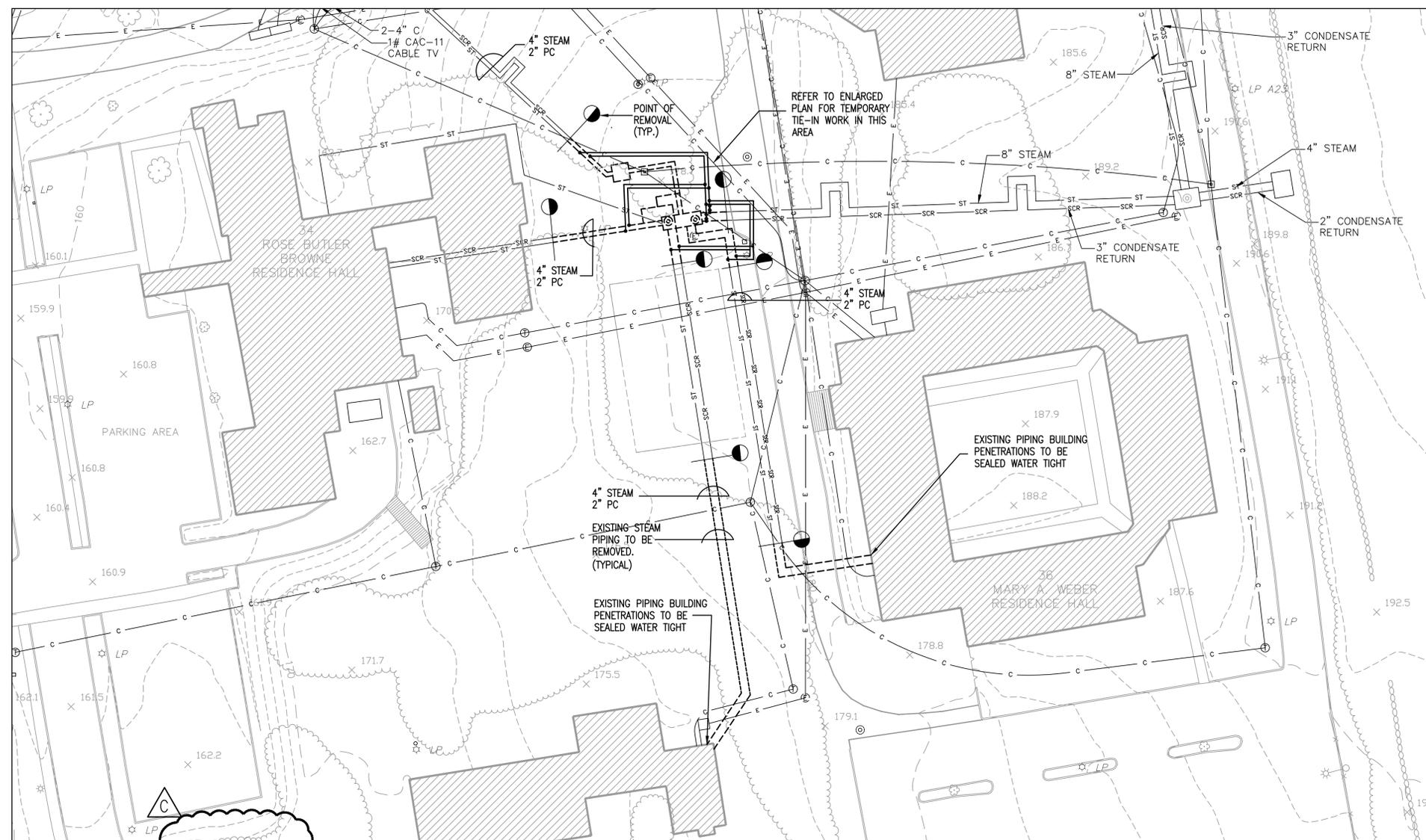
PROJECT NAME: RIC - RESIDENCE HALLS STEAM UPGRADES PROJECT

DRAWING NAME: DETAILS I

ARDEN PROJECT NUMBER	DRAWING NUMBER	REVISION NUMBER
44178	C3.0	C

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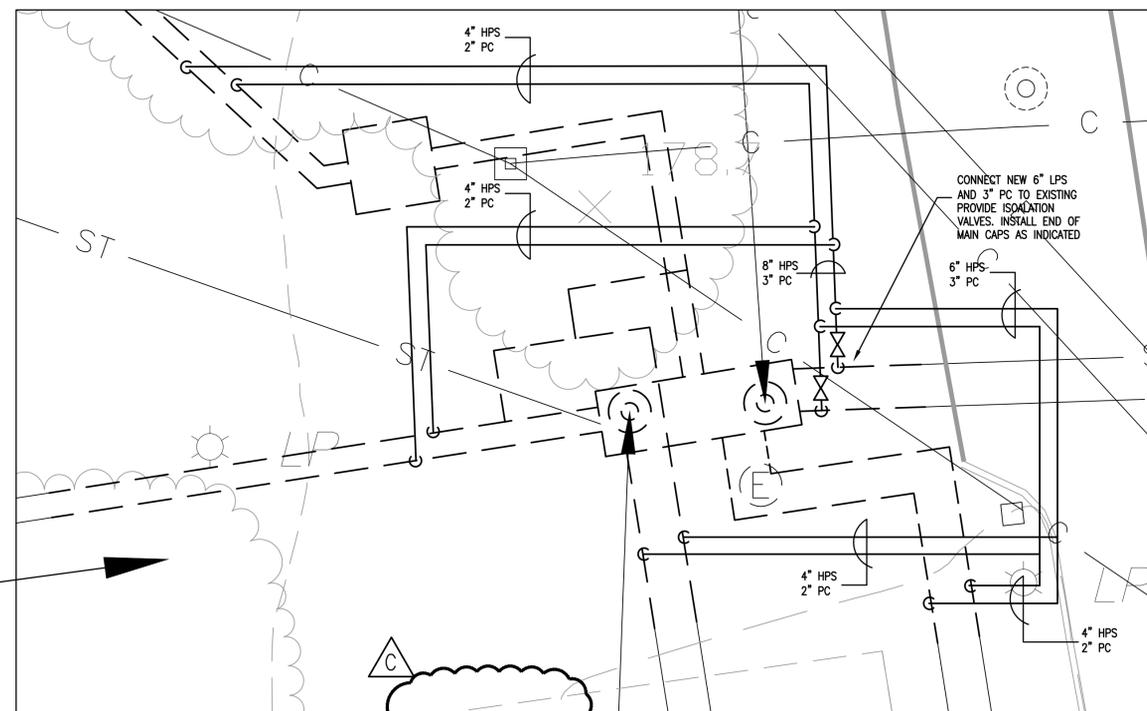
STEAM PIPING DEMOLITION SITE PLAN
SCALE: 1"=30'-0"

GENERAL NOTES:

- ALL OF THE EXISTING RESIDENCE HALLS WILL REQUIRE STEAM THROUGHOUT THE PROJECT. THE EXISTING STEAM PIPING CANNOT BE REMOVED UNTIL THE NEW STEAM LINES ARE TIED INTO THE EXISTING STEAM AND CONDENSATE. PROVIDE AND INSTALL TEMPORARY STEAM AND CONDENSATE TIE-INS AS NEEDED TO INSTALL THE PROJECT AND KEEP THE STEAM FEEDS TO THE BLDGS. ONLINE.
- THE EXISTING STEAM PIPING AND SIZES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION PROVIDED BY RID. ANY DISCREPANCIES SHALL BE REPORTED TO RIC AND THE ENGINEER OF RECORD.
- TEST PITS WILL BE REQUIRED TO DETERMINE THE ACTUAL ROUTING OF THE NEW UNDERGROUND STEAM PIPING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPLORATORY WORK AND THEN PROVIDE RIC AND ENGINEER OF RECORD WITH THE PROPOSED ROUTING FOR APPROVAL.
- ALL SHUTDOWNS OF STEAM AND/OR CONDENSATE SYSTEMS MUST BE SCHEDULED AT LEAST 10 BUSINESS DAYS IN ADVANCE AND APPROVED IN WRITING BY THE COLLEGE. A SHUTDOWN SCHEDULE WITH TIMES AND DURATIONS SHALL BE SUBMITTED TO RIC FOR APPROVAL.
- CONTRACTOR TO PROVIDE DETAILED PROJECT SCHEDULE THAT INCLUDES SEQUENCING OF WORK TO THE COLLEGE FOR APPROVAL PRIOR TO STARTING WORK.
- REFER TO SITE PLANS FOR ADDITIONAL NOTES AND WORK REQUIRED.

NOTES:

- ALL PIPING TO BE INSTALLED ABOVEGROUND AND INSULATED FOR PERSONNEL PROTECTION WITH 2" OF FIBERGLASS WITH WEATHER PROTECTION WRAP.
- REFER TO SPECS FOR PIPING MATERIALS AND VALVE REQUIREMENTS. TEMPORARY PIPING & VALVES TO BE RE-USED IN THE STEAM VAULTS AND INSIDE THE BLDG. WHEN DISCONNECTED IF POSSIBLE.
- PROVIDE END OF MAIN DRIPS AND STEAM TRAPS AT ALL LOW POINTS. PIPE TRAP CONDENSATE TO PC MAINS.
- TIE-IN SHUT DOWNS TO BE KEPT TO A MINIMUM AND APPROVED BY RIC BEFORE THE STEAM SYSTEM IS TURNED OFF. SEE ADDITIONAL NOTES THIS DWG.



STEAM PIPING TEMPORARY TIE-IN PART PLAN
SCALE: NONE

KEY PLAN

GRAPHIC SCALES

NORTH ARROW



REGISTRATION

ISSUED FOR BID

REV.	DATE	DRF'D	DES'D	CHK'D	PURPOSE OF ISSUE/REVISION
C	7/29/14	TAE	TAE	TAE	REVISED FOR BID
B	7/11/14	TAE	TAE	TAE	ISSUED FOR BID
A	7/07/14	TAE	TAE	TAE	ISSUED FOR STATE REVIEW



ARDEN ENGINEERING CONSTRUCTORS, LLC.
505 MARRAGANSETT PARK DR.
PAWTUCKET R.I. 02861
www.ardeneng.com
TEL (401) 727-3500
FAX (401) 727-3540

SCALE: AS NOTED

FILE NAME: 44178H3.0

PROJECT NAME:
RIC - RESIDENCE HALLS
STEAM UPGRADES PROJECT

DRAWING NAME:
STEAM PIPING SITE DEMOLITION
AND TEMP. TIE-IN PART PLANS

ARDEN PROJECT NUMBER	DRAWING NUMBER	REVISION NUMBER
44178	H3.0	C