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Addendum #2

Project Name:	Randolph Elementary Additions & Renovation 1024 S. 37th Street Lincoln, Nebraska 68510
SHA Project No.:	15049-05
LPS Bid No.:	8366
Date Issued:	February 12, 2016
Bid Date:	Thursday February 18, 2016; 2:00pm CT
Bid Opening:	LPS Facilities and Maintenance Office
Location:	800 S. 24th Street Lincoln, NE 68508

This Addendum is issued to all known bidders before receipt of proposals. This Addendum is to authorize the use of the following information in preparing proposals for the above named project. The bidder **must** enter the number of this Addendum on the **Proposal Sheet.**

GENERAL QUESTIONS AND CLARIFICATIONS

ADD 1-1. Trash Enclosure.

Question: *Are there any details for the trash enclosure?*

Response: Refer to Detail N13/A402 for typical section at trash enclosure wall along with typical detail of end wall to enclosure.

The enclosure is located in the northwest corner of the parking lot.

Contractor to also note that size of trash enclosure can be found on Detail A1/LS100. The enclosure consists of (2) "U-shaped" walls that are 17'-4" in the east / west direction and 6'-8" in the north / south direction.

The total height of the trash enclosure should be approximately 6'-0" above grade. It is assumed that the top of footing will be around 1221.33' with the top of the finished wall at 1228.0'.

ADD 1-2. Secure Entry Addition.

Question: *At the new entrance at the southeast corner of the cafeteria, the civil drawings appear to be showing a set of stirs. This seems to be a fairly flat area that would not need a set of stairs. Is the set of stairs I am seeing to be a ramp next to the single step that is shown in the architectural drawings?*

Response: Yes. The item you are referring to (callout U) is a ramp that is adjacent to the "step" shown in the architectural drawings.

ADD 1-3. Concrete Curbs.

The C100 Site Plan identifies curbs at the new parking and drive areas. Nothing is indicated at the new trash enclosure located in the northwest corner of the parking lot. A concrete curb is to be provided at the interior side of the trash enclosure as shown in the section found on Detail N13/A402.

ADD 1-4. Hollow Core.

Statement: *It appears that we are installing some new hollowcore panels on top of the boiler room but I did not see that we were removing any of the existing hollowcore in any of the demo drawings. Please clarify.*

Response: Refer to A10/S100B. On the right side of the plan view there is a dimensional note indicating existing 8" flexicore with another note stating to remove as required to place new hollowcore as shown.

ADD 1-5. Liquidated Damages.

Question: *Are there any liquidated damages?*

Response: No.

ADD 1-6. Sheet A100A, Room CS 021.

Statement: *Room CS021 architectural shows west wall as masonry, structural shows west wall as concrete. Please confirm which is correct.*

Response: Either a reinforce CIP wall or a reinforced 8" CMU wall would be acceptable. Owner would prefer the most cost effective wall assembly possible. Contractor's bid may include this wall assembly as either option.

ADD 1-7. Sheet E101, Room 133.

Statement: *I don't see any specific dimmer listed on the plans or specs.*

Response: Provide a 0-10V slide dimmer rated for use with LED driver provided, similar to Lutron Nova series.

ADD 1-8. Sheet E101, Note 5.

Question: *What size lighting contactor is required? Location of BMS Panel? What circuits are they controlling?*

Response: Contactors shall be 30A rated.

BMS controls will be located in the mechanical room. Coordinate exact location with the controls contractor.

Controlling the exterior lighting circuits. Sheet Note 7.

ADD 1-9. Sheet E200, Note 13.

Question: *Are the receptacles shown on Detail N1 to be fed from panel LPF6 and run through the crawlspace below or the nearest circuit?*

Response: For receptacles shown in plan N1 at Stair ST03, change to Note 16 which should read:

"Remove duplex outlet, wiremold surface mounted box and raceway. Install new flush mounted box and duplex outlet at same location. Conceal conduit in wall and reconnect to existing circuit."

MODIFICATIONS TO THE DRAWINGS

ADD 1-10. Refer to C202, spot elevation callouts at segmental retaining wall outside of Area B.

The top of wall should be noted to be 1223.43 along the new re-built landscape wall. A question was raised about the overall height of this wall and by raising the top elevation to 1223.43 from the various heights currently shown, that should provide a wall height that coordinate with the finished grades as shown on C200.

ADD 1-11. Refer to Sheet A200, Details A1 and G1; The fiberglass-sandwich panel assemblies (084523.A) shown in these elevations will require a panel divider mullion due to the size of the openings. This divider will occur vertically at the center of each opening.

ADD 1-12. West elevation to new gymnasium addition was never provided in the final documents. We are providing this elevation as part of this addendum. Elevation will not fit on Sheet A200 and rather than issue an entire new Sheet A201, we have issued this elevation on an 11x17 attachment. See **Attachment A1**.

ADD 1-13. Refer to Detail A1/A302 at the top of the wall assembly; Keynote 047200.G should be changed to 047200.E.

ADD 1-14. Refer to Detail N7/A400; Keynote 047200.G should be changed to 047200.E.

ADD 1-15. Refer to Detail N13/A402; Make the following modifications:

Add additional information for the wall reinforcing. Provide dowel bars to match wall reinforcement with 48 x bar diameter lap and embedment into footing.

The footing shall be a 28"x40" footing with (4) #5 T&B continuous.

ADD 1-16. Refer to Sheet M101, Detail L8; Some 2" drain lines have been upsized to 3". Refer to **Attachment 1/M101**

ADD 1-17. Refer to Sheet M101, Detail L12; A plumbing vent was added. Refer to **Attachment 2/M101**

ADD 1-18. Refer to Sheet M102, Detail J4; A plumbing vent was added. Refer to **Attachment 1/M102**

ADD 1-19. Refer to Sheet E102; Add Sheet Note 4 callout to EH-2 unit heater located under the new kitchen addition.

ADD 1-20. Refer to Sheet E102; at Stair ST03 adjacent to the door, there is a sheet note callout 4. Add the text "EH-2" to the object the sheet note is pointing to.

ADD 1-21. Refer to Sheet E200; Add Sheet Note 16

NOTE 16 REMOVE DUPLEX OUTLET, WIREMOLD SURFACE MOUNTED BOX AND RACEWAY. INSTALL NEW FLUSH MOUNTED BOX AND DUPLEX OUTLET AT SAME LOCATION. CONCEAL CONDUIT IN WALL AND RECONNECT TO EXISTING CIRCUIT

ADD 1-22. Refer to Sheet E200, Detail N1; Sheet notes 13 should be changed to sheet note 16.

MODIFICATIONS TO THE SPECIFICATIONS

ADD 1-23. Refer to the Table of Contents; Add the following section:

ETI	232123	HYDRONIC PUMPS	3

ADD 1-24. Refer to Section 084523 “Fiberglass-Sandwich-Panel Assemblies”, Article 2.2, paragraph 1.a; Replace with the following:

a. Kalwall 4” Wall System. Product Representative, Eric Holtmeyer with SGH; 402.990.7034, eholtmeyer@sghincl.com

ADD 1-25. Refer to Section 084523 “Fiberglass-Sandwich-Panel Assemblies”, Article 2.3, paragraph A; Replace with the following:

A. Fiberglass-Sandwich Panels: Uniformly colored, translucent, thermoset, fiberglass-reinforced-polymer face sheets bonded to both sides of a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.

1. Light transmission: 14%
2. Solar heat gain coefficient: 0.09
3. Panel U-factor by NFRC certified laboratory: 4” thermally broken grid 0.15U
4. Complete insulated panel system shall have NFRC certified U-factor of 020U
5. Grid Pattern: Nominal size 12”x24”; Shoji.

ADD 1-26. Refer to Section 084523 “Fiberglass-Sandwich-Panel Assemblies”, Article 2.3, paragraph E.2; The color shall be changed to read as Matte White

ADD 1-27. Refer to Section 230993 “Sequence of Operations”

Add: “Provide time of day scheduling with binary output to energize/de-energize exterior lighting control system”.

ADD 1-28. Refer to Section 232123 “Hydronic Pumps”; This section has been added to the project as an **Attachment** to this Addendum.

MECHANICAL PRIOR APPROVALS / SUBSTITUTIONS

ADD 1-29. The manufacturers listed herein will be considered approved for bidding. However, the proposed substitution must meet the intent of the specifications and will be subject to shop submittal approval during construction. Burden of Proof is on Proposer. Bidders shall bear all responsibility for coordinating and performing related changes in the Work necessitated by such substitution and include such costs in the Bid:

Proposed Equipment	Manufacturer
a. Hydronic Pumps	Bell & Gossett
b. VFD	YASKAWA
c. Flow Control Valve	Nexus
d. Energy Recovery Unit	ConsERV
e. Roof Hoods	Loren Cook
f. Grilles, Registers, Diffusers	Price Industries, Nailor
g. Louvers	Greenheck
h. Spiral Ductwork	Spiral Pipe of Texas

ELECTRICAL PRIOR APPROVALS / SUBSTITUTIONS

ADD 1-30. The manufacturers listed herein will be considered approved for bidding. However, the proposed substitution must meet the intent of the specifications and will be subject to shop submittal approval during construction. Burden of Proof is on Proposer. Bidders shall bear all responsibility for coordinating and performing related changes in the Work necessitated by such substitution and include such costs in the Bid:

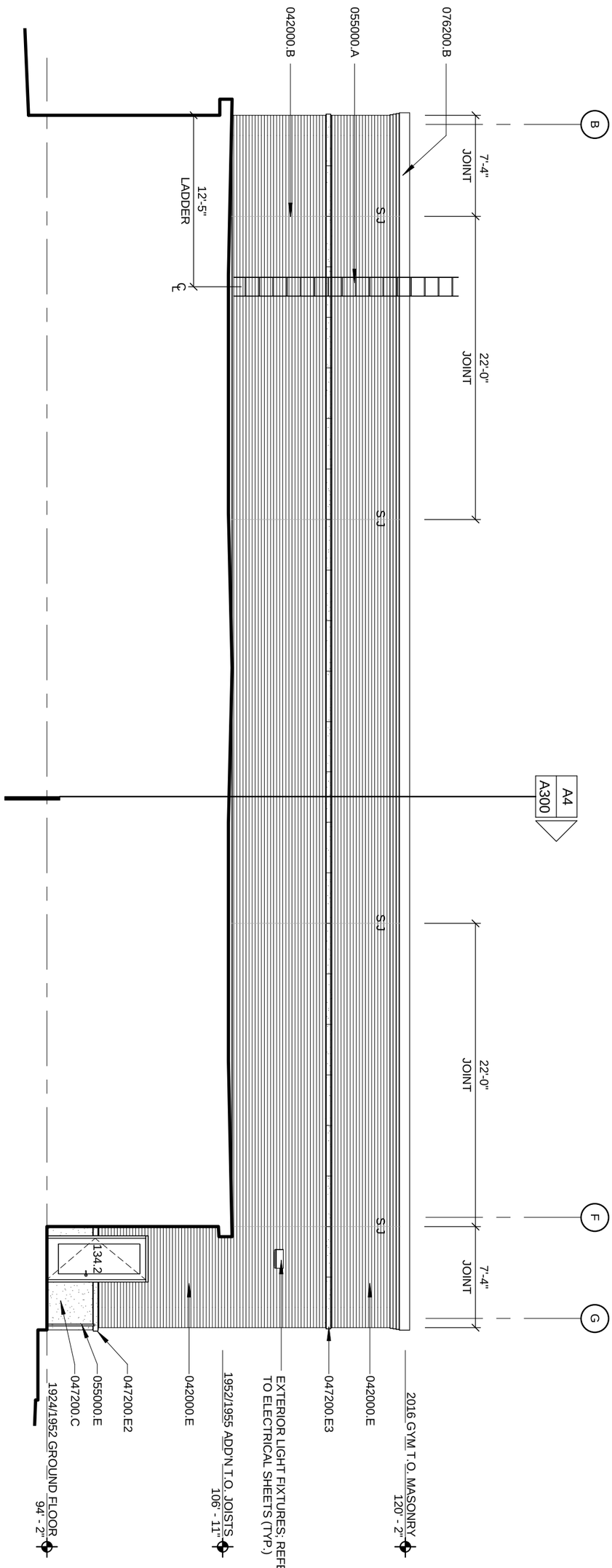
Fixtures	Manufacturer
i. Types 10, 15	McGraw-Edison
j. Types 13A, 13B	Prudential
k. Type 14	Boca Flasher

ATTACHMENTS

ADD 1-31. The following attachments are included as part of this addendum.

- Attachment A1: New Elevation
- Attachment 1/M101 Revised Detail L8
- Attachment 2/M101 Revised Detail L12
- Attachment 1/M102 Revised Detail J4
- Section 232123 “Hydronic Pumps” Issued

End of Addendum #2



Exterior Elevation - West Elevation

Revision to Detail: **NEW ELEVATION**

Randolph Elementary - Additions and Renovation

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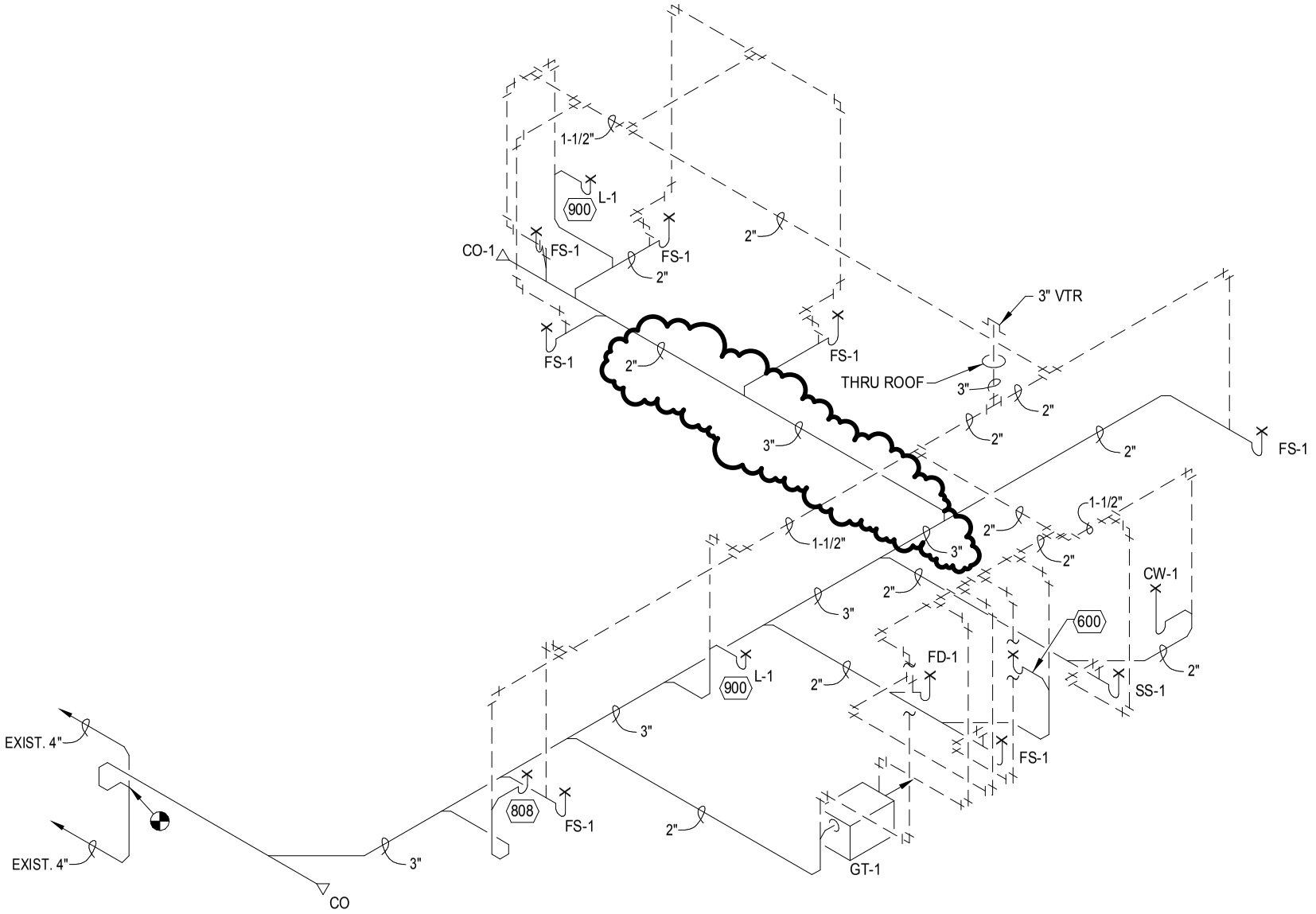
Attachment: A1

Scale: 1/8" = 1'-0"	Project Number: 15049-05	Date: **February 12, 2016**	Attachment to: **Addendum 02**



L8 KITCHEN PLUMBING RISER

SCALE: NONE

Randolph Elem. Add. & Reno.

FIRST FLOOR PLUMBING PLAN - AREA "A"

SCALE:NONE | JCT

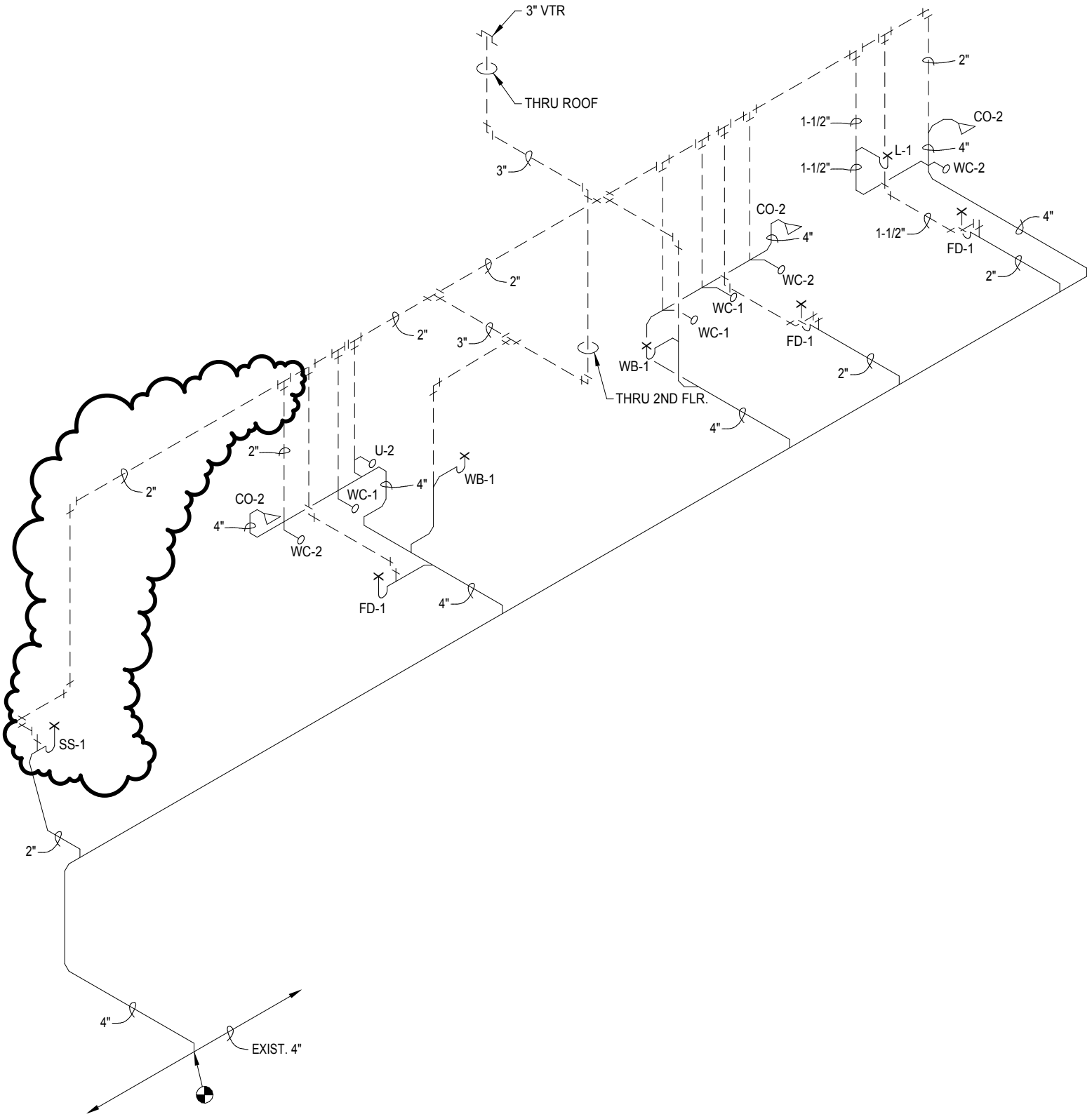
Engineering Technologies Inc.
Mechanical & Electrical Building Solutions
1111 N. 13th Street, Suite 216 | Omaha, NE 68102 | P 402.330.2772 | F 402.330.2630
825 M Street, Suite 200 | Lincoln, NE 68508
P 402.476.1273 | F 402.476.1274
ETI Project No: 2015-127

ETI ADDENDUM 2

SHEET M101

ATTACHMENT NO. 1

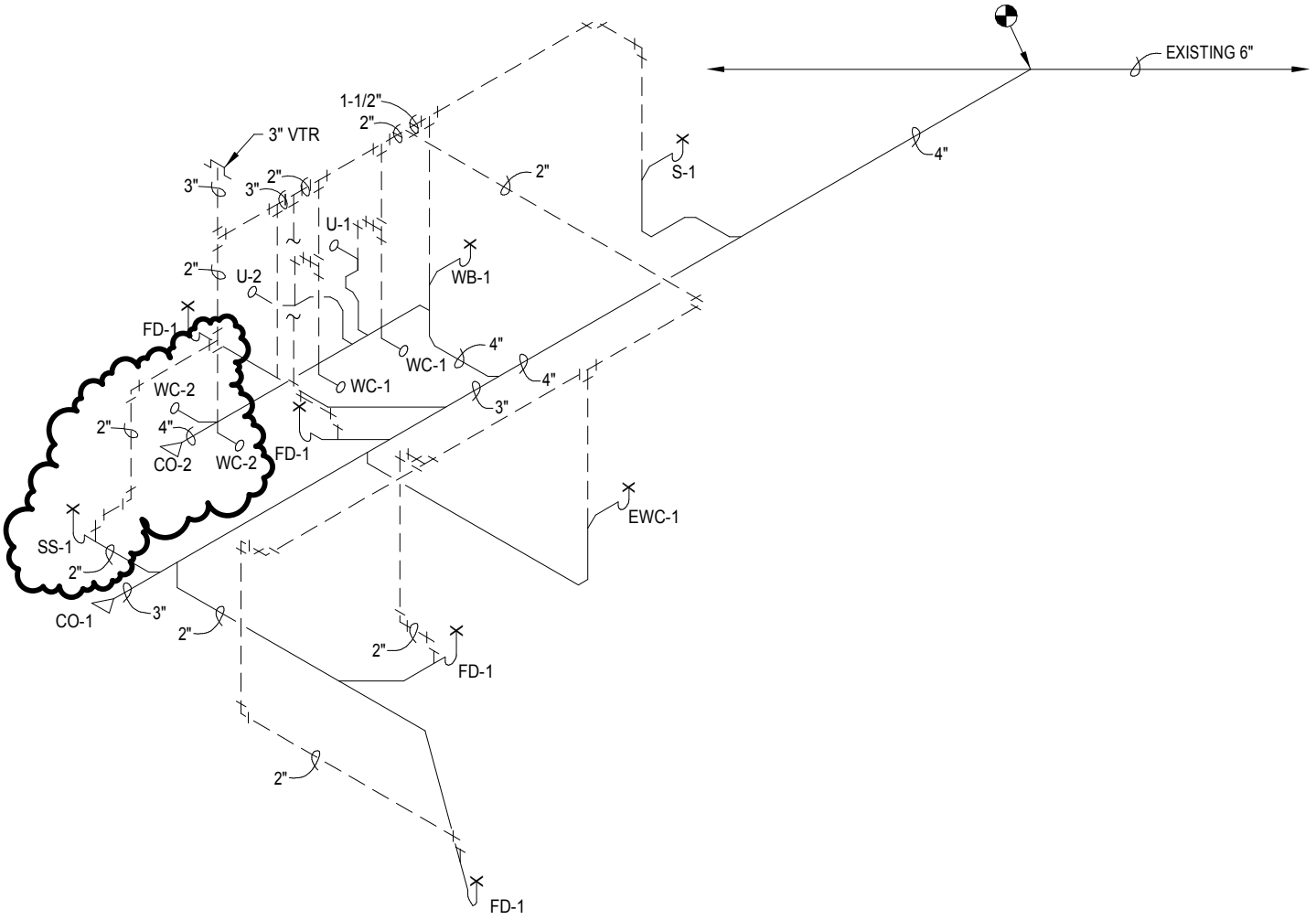
02/12/2016



L12 LIBRARY RR PLUMBING RISER

SCALE: 1/8" = 1'-0"

Randolph Elem. Add. & Reno. FIRST FLOOR PLUMBING PLAN - AREA "A"		**Engineering Technologies Inc.** Mechanical & Electrical Building Solutions 1111 N. 13th Street, Suite 216 | Omaha, NE 68102 | P 402.330.2772 | F 402.330.2630 825 M Street, Suite 200 | Lincoln, NE 68508 P 402.476.1273 | F 402.476.1274 **ETI Project No:** 2015-127	ETI Addendum #2 SHEET M101 ATTACHMENT NO. 2 02/12/2016
SCALE:NONE	JCT		



J4 AREA B PLUMBING RISER

SCALE: NONE

Randolph Elem. Add. & Reno. FIRST FLOOR PLUMBING PLAN - AREA "B"		**Engineering Technologies Inc.** **Mechanical & Electrical Building Solutions** **1111 N. 13th Street, Suite 216 | Omaha, NE 68102 | P 402.330.2772 | F 402.330.2630** 825 M Street, Suite 200 | Lincoln, NE 68508 P 402.476.1273 | F 402.476.1274 **ETI Project No:** 2015-127	ETI ADDENDUM #2 SHEET M102 ATTACHMENT NO. 1 02/12/2016
SCALE:NONE	JCT		

SECTION 232123 - HYDRONIC PUMPS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Vertical in-line pumps.

1.2 RELATED REQUIREMENTS

A. Section 220548 - Vibration and Seismic Controls for Mechanical Piping and Equipment.

B. Section 220719 - Plumbing Piping Insulation.

C. Section 230513 - Common Motor Requirements for HVAC Equipment.

D. Section 230719 - HVAC Piping Insulation.

E. Section 232113 - Hydronic Piping.

F. Section 232114 - Hydronic Specialties.

G. Section 262717 - Equipment Wiring: Electrical characteristics and wiring connections.

1.3 REFERENCE STANDARDS

A. NEMA MG 1 - Motors and Generators; National Electrical Manufacturers Association; 2011.

B. UL 778 - Standard for Motor-Operated Water Pumps; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.

1.4 PERFORMANCE REQUIREMENTS

A. Ensure pumps operate at specified system fluid temperatures without vapor binding and cavitation, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.

1.5 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide certified pump curves showing performance characteristics with pump and system operating point plotted. Include NPSH curve when applicable. Include electrical characteristics and connection requirements.

C. Millwright's Certificate: Certify that base mounted pumps have been aligned.

D. Operation and Maintenance Data: Include installation instructions, assembly views, lubrication instructions, and replacement parts list.

1.6 QUALITY ASSURANCE

A. Alignment: Base mounted pumps shall be aligned by qualified millwright.

1.7 EXTRA MATERIALS

A. See Section 016000 - Product Requirements, for additional provisions.

B. Provide one set of mechanical seals for each pump.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Armstrong Pumps Inc

B. ITT Bell & Gossett

C. Paco Pumps

D. Taco. Inc.

2.2 HVAC PUMPS - GENERAL

A. Provide pumps that operate at specified system fluid temperatures without vapor binding and cavitation, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.

B. Products Requiring Electrical Connection: Listed and classified by UL or testing agency acceptable to authority having jurisdiction as suitable for the purpose specified and indicated.

2.3 VERTICAL IN-LINE PUMPS

A. Type: Vertical, single stage, close coupled, radially split casing, for in-line mounting, for 175 psi working pressure.

B. Casing: Cast iron, with suction and discharge gage port, casing wear ring, seal flush connection, drain plug, flanged suction and discharge.

C. Impeller: Bronze, fully enclosed, keyed directly to motor shaft or extension.

D. Shaft: Carbon steel with stainless steel impeller cap screw or nut and bronze sleeve.

E. Seal: Mechanical seal, 225 degrees F maximum continuous operating temperature.

PART 3 EXECUTION

3.1 PREPARATION

A. Verify that electric power is available and of the correct characteristics.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Provide access space around pumps for service. Provide no less than minimum space recommended by manufacturer.

C. Decrease from line size with long radius reducing elbows or reducers. Support piping adjacent to pump such that no weight is carried on pump casings. For close coupled or base mounted pumps, provide supports under elbows on pump suction and discharge line sizes 4 inches and over. Refer to Section 220548.

D. Provide line sized shut-off valve and strainer on pump suction, and line sized soft seat check valve and balancing valve and shutoff valve on pump discharge.

E. Provide phenolic sphere type flexible piping connectors in pump suction and discharge piping.

F. Provide air cock and drain connection on horizontal pump casings.

G. Provide drains for bases and seals, piped to and discharging into floor drains.

H. Lubricate pumps before start-up.

END OF SECTION