



February 17th 2017

**GARRETT COUNTY COMMUNITY COLLEGE
STEM BUILDING 200**

ADDENDUM #2

TO THE CONTRACT DRAWINGS AND SPECIFICATIONS FOR THE REFERENCED PROJECT, BID SET, DATED FEBRUARY 1ST 2017, AS PREPARED BY GRIMM AND PARKER ARCHITECTS, 11720 BELTSVILLE DRIVE, SUITE 600, CALVERTON, MD 20705.

This Addendum includes changes and clarifications to the Contract Documents. This information includes the following:

SPECIFICATIONS:

ITEM NO. 1: SECTION 08 80 00 – GLAZING

ADD

Add to paragraph 1.3 – Submittals:

“I. Submittals for Glass Canopies:

- 1. Provide product data for all proposed components, materials, products, and accessories.***
 - a. For each type glass, provide maximum allowable stress in both horizontal and vertical directions.***
 - b. Provide product data for all fittings and hardware.***
- 2. Shop drawings:***
 - a. Plans, elevations, and sections illustrating shape, configuration, and dimensions.***
 - b. Illustrate method of assembly, installation, and glazing.***
 - c. Provide details for support framing, reinforcement, connections, joints, anchors, and other fabrication and installation conditions.***
 - d. Indicate required tolerances and coordination with adjacent elements and work of other trades.***
- 3. Calculations: Show compliance with performance criteria and applicable loads with stamp of Licensed Professional Engineer registered in the State of Maryland.”***

CALVERTON / TYSONS / CHARLOTTESVILLE

ADD

Add paragraph 1.9 as follows:

“1.9 DESIGN AND PERFORMANCE CRITERIA FOR GLASS CANOPY

A. Design the size and quantity of components, and install glass canopy in accordance with ASTM E1300 to withstand these loads without breakage, loss, failure of seals, product deterioration, and other defects.

- 1. Dead and live loads: Determined by ASCE 7-10 and calculated in accordance with applicable codes.***
- 2. Seismic loads: System shall be designed and installed to comply with applicable seismic requirements for Project location and Seismic Zone 1 defined by of ICC/IBC.***
- 3. Movement and deflection of structural support framing.***
- 4. Effects of applicable wind load acting inward and outward normal to plane of canopy in accordance with ASTM E330.***
- 5. Thermal loads and movement:***
 - a. Ambient temperature range: 120 degrees F.***
 - b. Material surfaces range: 180 degrees F.***

B. Provide and install exterior gaskets, sealants, and other glazing accessories to resist water penetration. There shall be no penetration at 15 pounds/square foot test pressure and 5 gallons/hour/square foot water rate tested in accordance ASTM E331.

ITEM NO. 2: SECTION 09 68 13 – TILE CARPETING

DELETE

Delete from paragraph 2.2A – Materials:

Delete the following line:

“4. CPT4: Mannington Commercial, Recoarse II 38 oz, Color 8413 Traverse Tan.”

ITEM NO. 3: SECTION 23 09 00 – INSTRUMENTATION AND CONTROL FOR HVAC

REVISE

Revise paragraph 2.18-2-C-1.a.1:

Revise paragraph to read:

“1) Provide 46” Touchscreen (UL approved, powered by 110 Volt wall plug) with native resolution of 1360 x 768 60 HZ (minimum) and all necessary cables”

Recess mount screen so when mounted the screen won’t project more than 4” from the wall in order to meet ADA requirements.

ITEM NO. 4: SECTION 28 13 00 – ACCESS CONTROL

REVISE

Revise paragraph 2.4H:

Revise paragraph to read:

“H. Materials and Programming to be obtained by:

- 1. Christina Corey, Intertech CI, 1501 Preble Avenue Pittsburgh PA 15233.
Ccorey@intertechci.com 412-980-1229***
- 2. ARK Systems”***

ITEM NO. 5: SECTION 28 13 00 – ACCESS CONTROL

DELETE Section 2.1 to be deleted in its entirety.

ITEM NO. 6: SECTION 28 13 00 – ACCESS CONTROL

DELETE Section 2.2 to be deleted in its entirety.

DRAWING ITEMS:

ITEM NO. 7: CIVIL SHEET C2.0

REVISE Width of concrete sidewalk has been increased to 6'-0". (see attached drawing)

ITEM NO. 8: ARCHITECTURAL SHEET A-3.2

REVISE Flooring material at south entry Vestibule 200A to be PT1. Owner will provide removable roll-out mats on top of porcelain tile. CPT4 has been removed from the project. (see attached drawing)

ITEM NO. 9: ARCHITECTURAL SHEET A-5.2

ADD Provide "No Smoking" decal at entry doors. (see attached drawing)

ITEM NO. 10: ARCHITECTURAL SHEET A-6.1

REVISE Cabinet changes have been made to drawings 5 and 7.

DELETE A note was deleted from drawing 22. (see attached drawing)

ITEM NO. 11: ARCHITECTURAL SHEET A-9.2

REVISE Cabinet changes have been made in Physics/Earth Science #226. The size of the sink in the southwest corner of Physics/Earth Science #226 has been revised.

ADD Missing size for the sink in northeast corner of Physics/Earth Science #226 has been noted. (see attached drawing)

ITEM NO. 12: ELECTRICAL SHEET E-0.2 – LIGHTING FIXTURE SCHEDULE

ADD For types 'G1', 'G1E', 'G2', and 'G3' under the COMMENTS column add: ***"PROVIDE UNIT PRICING."***

ITEM NO. 13: PLUMBING SHEET P-0.1 – FOUNDATION - PLUMBING

DELETE Foundation drain around addition and existing foundation drain around existing building in its entirety. Delete associated notes.

ITEM NO. 14: PLUMBING SHEET P-2.1 – FIRST FLOOR - PLUMBING

ADD 3" SW piping to OHDs that have been added to either side of units in penthouse. SW piping shall connect to 3" SW piping in ceiling space.

REVISE Location of P5 and associated piping in Engineering/Robotics 236. Shift piping and fixture project east 4'-0".

ADD ½" CW piping to glass ware dishwasher (DW) in Biology/Prep Storage 229B for connection to drain cooling kit.

ITEM NO. 15: PLUMBING SHEET P-3.1 – MECHANICAL ROOM AND PENTHOUSE FLOOR – PART PLANS

ADD Total of three (3) additional 3" open hub drains (OHDs) in penthouse for condensate collection. Add two (2) additional drain connections and condensate traps to opposite side of AHUs so that each unit drains on each side (6 total OHDs, 12 condensate connections and traps, 2 on each side of unit). Add drawing note #1 to point to condensate traps that have been added.

ADD Condensate drain and trap on opposite side (right side) of AHU-1 in mechanical room and drain to 4" FD-A.

REVISE Pipe condensate from Split A/C Unit in IT 220A adjacent to mechanical room to floor drain to north.

REVISE Shift location of 4" FD-A in mechanical room between boiler #1 & #2 project north 1'-6" so that it is off of equipment pad.

ITEM NO. 16: PLUMBING SHEET P-6.2 – LP GAS & VACUUM SYSTEM RISER DIAGRAMS

REVISE Note referring to underground vacuum piping. Change note to read ***"Vacuum gas piping in 3" PVC conduit below slab. Piping shall be soft copper tubing, type 'L' and no joints (typ)."***

ITEM NO. 17: MECHANICAL SHEET M-7.4 – MECHANICAL DETAILS

REVISE Piping diagram has been revised. Refer to sketch M-2.1 for additional information.

REVISE Equipment and design notes have been revised. Refer to sketch M-2.2 for additional information.

REVISE Part plan has been revised to include the sidewalk leading to the entry of building 300. Refer to sketch M-2.3 for additional information.

QUESTIONS:

ITEM NO. 18:

QUESTION On drawing M-2.1, note 7 says 2" polypropylene vent to chemical storage cabinet. Should this be referencing the fume hoods? Please verify exactly what this note should reference and the type of material.

ANSWER No it's for the storage cabinets in the chemical storage room. Polypropylene is the material of pipe available by plastic pipe manufacturers, typically for acid waste systems.

ITEM NO. 19:

QUESTION 084313-1.5-C.1 & 084413-1.6-C.1 – Is it required to have the storefront / curtain wall shop drawings "prepared by the manufacturer"? Typically, we self-perform the shop drawings and submit to a Maryland licensed PE for review, sign and seal.

The problems that I see occurring are:

- a. Some manufacturers will not provide in house shop drawing services for a project this size.
- b. Having the shop drawings prepared by the manufacturer extends submittal lead-times and can significantly increase the cost.

ANSWER Shop drawings don't have to be prepared by the storefront / curtainwall manufacturer provided they are drawn to scale, drawn in CAD, are complete with all details and conditions included, and approved by the manufacturer.

ITEM NO. 20:

QUESTION 088000-2.3-D.4 – Glass type 'G-2' is called to have a colored interlayer. Can you please specify the color to be used? In past experiences, different colors incur different costs.

ANSWER The interlayer is to be translucent white as noted in the 'Glass Type Key' on sheets A-3.4 & A-3.5.

ITEM NO. 21:

QUESTION ARK Systems is a Lenel authorized VAR and a provider of access control solutions to Garrett College. Please add ARK Systems as an approved vendor under Section 28 13 00 – 2.4H.

ANSWER ARK Systems will be added as an equal.

ITEM NO. 22:

QUESTION "Application software shall be General Electric Secure Perfect Version 6 or higher". GE Security was purchased by Lenel. The manufacturer states that the Secure Perfect software package is obsolete and cannot be expanded. Please confirm the software package currently in use.

Please specify if the existing package is capable of supporting the additional readers and clients.

ANSWER Software package currently in use is Lenel OnGuard. Sections 2.1 and 2.2 in spec section 28 13 00 will be deleted.

The existing package is capable of supporting the additional readers and clients.

ITEM NO. 23:

QUESTION I was wondering if there is a specification for the glass canopy. I could not locate it in either division 8 or 10.

ANSWER There is not a separate specification section for the glass canopy. Information about the glass for the glass canopy is located in section 088000-2.2-E. Information about the glass supporting fittings is located in section 088000-2.3-E. Information about the structural steel for the glass canopy is located in section 051213. See item number 1 of this addendum for additional information regarding the glass canopy.

ITEM NO. 24:

QUESTION What is the mounting height for the short throw projectors?

ANSWER The short throw projectors are to be mounted 8'-8" A.F.F. – Refer to manufacturer's installation instructions for additional information.

ITEM NO. 25:

QUESTION 084313-2.3-B -- What stile of aluminum door is required? (narrow, medium, wide)

ANSWER Wide stiles are to be provided.

ITEM NO. 26:

QUESTION 084313-1.5-D – States to provide data based on the impact of the “frame mounted sunshades”; however I do not see any sunshades present on this project. Please confirm.

ANSWER There are no sunshades in this project.

ITEM NO. 27:

QUESTION WALL SECTION A11 / A4.2 – Depicts a curtain wall mid-span anchor tied off to the steel ‘I’ beam above the gyp board ceiling. With this anchor being oriented towards the top of the elevation, it will not carry the maximum windload. Can we mid-span anchor at the lower tube steel (in addition to, or in lieu of) the top anchor? (It would be hidden to the exterior by the ‘G2’ glazing.)

ANSWER Yes. The condition for the mid-span anchor at the lower tube steel is shown in structural detail F/S-5.1.

ITEM NO. 28:

QUESTION Drawing S1.1 shows “remove existing topping slab coat to original slab depth. Level over with Ardex SD-P and Ardex Feather Finish)

- What is the depth of the topping slab to be removed?

ANSWER It is unknown if there even is a topping slab. The contractor shall remove whatever was used to build up this area.

ITEM NO. 29:

QUESTION What thickness will the Ardex be installed?

ANSWER This information was provided in Addendum #1.

END OF ADDENDUM NUMBER 2 NARRATIVE





TYPICAL FINISHES

SPACES NOT LISTED ON THE SCHEDULE SHALL HAVE THE TYPICAL FINISHES LISTED BELOW:

FLOORS: CPT
BASE: RST
WALLS: PTD
CEILING: APC

GYP. BD. ABOVE H.M. FRAMES AS INDICATED ON SECTIONS. DETAILS TO RECEIVE SAME TOP COATS AS ADJACENT WALLS UNLESS OTHERWISE NOTED.

FINISH MATERIALS

FLOORS

CONC
CPT
PT
VCT
WM

BASES

CONCRETE WITH HARDENER
CARPET
PORCELAIN TILE
VINYL COMPOSITION TILE
WALK-OFF MAT

WALLS

CEILING

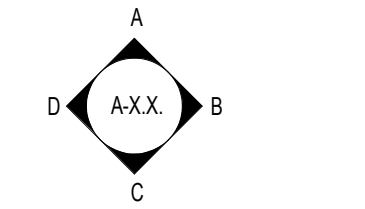
APC1
APC2
EXP
PTD

COLOR ACQUISITIVE PANEL CLG. - 2'X2'
ACQUISITIVE PANEL CLG. - 2'X2'
EXPOSED CONSTRUCTION - PAINTED
PAINTED GYPSUM BOARD ON CMU

CNU
PTD
UNPAINTED C.M.U.
PAINTED

WALL KEY

WALLS ON FINISH SCHEDULE ARE DENOTED THIS:

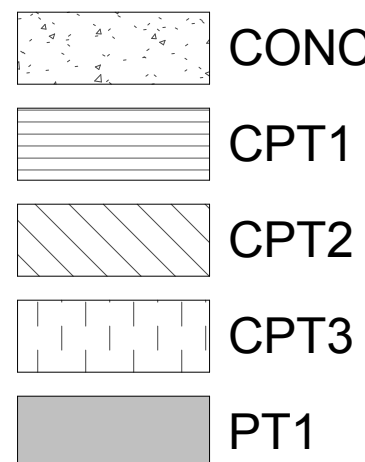


TYPICAL UNLESS OTHERWISE NOTED.

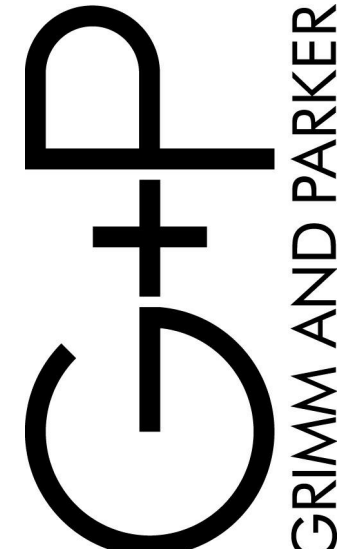
TYPICAL NOTES

- REFER TO FLOOR PLANS, CEILING PLANS, INTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION AND EXTENT OF EACH FINISH WHEN MORE THAN ONE FINISH IS INDICATED FOR ANY SPACE.
- SEE CEILING PLANS FOR HEIGHTS OF CEILINGS AND LOCATIONS AND HEIGHTS OF BULKHEADS, SOFFITS, ETC.
- PAIN ALL EXPOSED STEEL LADDERS, LINTELS, HUNG PLATES, HAND AND GUARD RAILS, STAIRS AND STRINGERS.
- PAIN ALL EXPOSED STEEL COLUMNS, TRUSSES, JOISTS, BEAMS, DECK, AND MISCELLANEOUS BRIDGING, ANGLES, PLATES, ETC.
- INSTALL PORCELAIN TILE COVE BASE FLUSH WITH FLOOR TILE AND FLUSH WITH PORCELAIN WALL TILE.
- FIELD PAINT ALL EXPOSED, NON-FACTORY FINISHED STRUCTURAL, MECHANICAL, OR ELECTRICAL COMPONENTS.
- PROVIDE SEALANT AT INTERSECTIONS OF DISSIMILAR MATERIALS, COMPLYING WITH SPECIFICATIONS.
- REFER TO INTERIOR ELEVATIONS AND SECTIONS FOR ADDITIONAL FINISH INFORMATION. PROVIDE ALL FINISH MATERIALS SHOWN IN PLANS, ELEVATIONS OR SECTIONS AS NOTED OR DEPICTED ON THE DRAWINGS AND SPECIFICATIONS.
- BRING CONFLICTS TO THE ARCHITECT'S ATTENTION DURING THE BIDDING PERIOD FOR CLARIFICATION.
- WALL AND CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAM ENCLOSURES, RECESSES, BULKHEADS, MATERIAL CHANGES, OR OTHER ENCLOSURES.
- ELECTRICAL, OUTLETS, CLOCKS, P.A. SPEAKERS OR OTHER DEVICES SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE LOCATED IN ACCORDANCE WITH THE PRESENCE OF SUCH DEVICES. NOT ALL DEVICES MAY BE SHOWN ON ARCHITECTURAL DRAWINGS. CONSULT THE OTHER DRAWINGS FOR FURTHER INFORMATION AND ADVISE ARCHITECT OF ANY CONFLICT OF LOCATION OR TYPE OF DEVICES SHOWN. COORDINATE ALL WORK FINISHES AND DEVICES.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT TOILET ROOMS, & SERVICE CLOSETS FOR WALLS DESIGNATED AS GYPSUM BOARD WALL TYPES. PROVIDE TILE BACKER BOARD AT WALLS DESIGNATED AS GYPSUM BOARD WALL TYPES WITH TILE FINISH.
- FIELD PAINT ELECTRICAL PANELS EXCEPT PANELS LOCATED IN ELECTRICAL CLOSETS AND MECHANICAL ROOMS.
- BRING CONFLICTS BETWEEN THE FINISH SCHEDULE AND MATERIALS SHOWN ON OTHER DRAWINGS (AND/OR SPECIFICATIONS) TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. IF A CONFLICT EXISTS BETWEEN DRAWINGS (AND/OR SPECIFICATIONS), THE MORE STRINGENT AND MORE COSTLY REQUIREMENT SHALL APPLY.

FLOOR FINISHES



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GP #21620

FINISH SCHEDULE AND PLAN

Garrett College STEM Renovation and Addition
McHenry, MD

DATE DESCRIPTION
2.17.17 Addendum 2

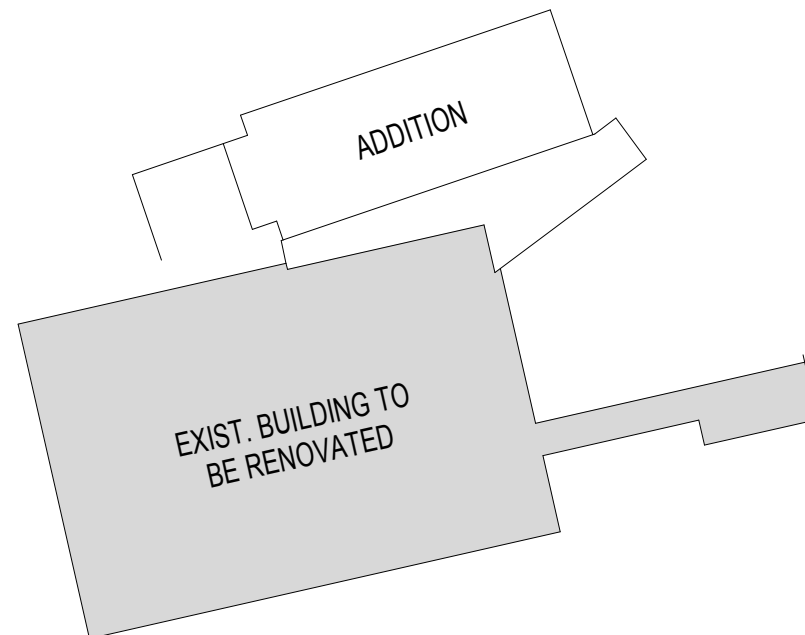
A-3.2
February 1, 2017
Bid Set

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B18 SIGNAGE FLOOR PLAN
1/8" = 1'-0"

KEY PLAN



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Tel: 301.595-1000
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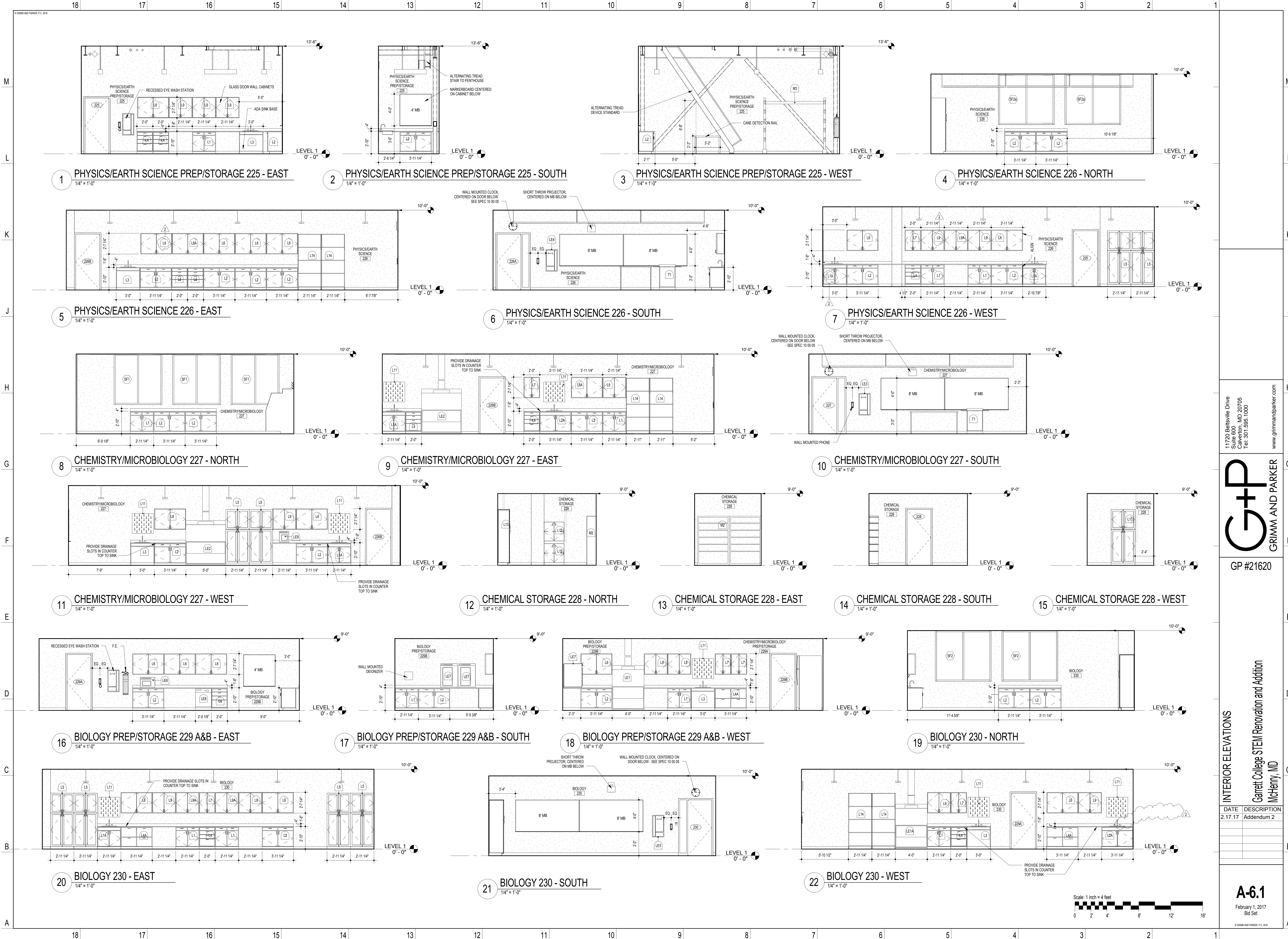
GP #21620

SIGNAGE FLOOR PLAN
Garrett College STEM Renovation and Addition
McHenry, MD

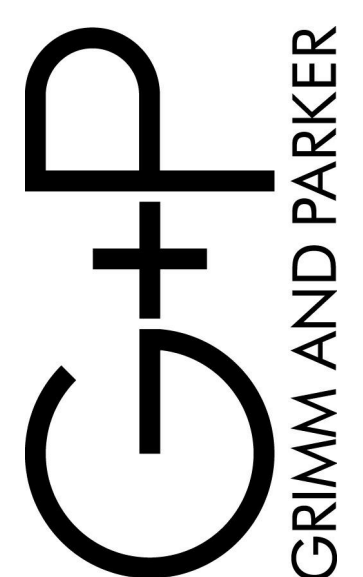
DATE	DESCRIPTION
2.17.17	Addendum 2

A-5.2
February 1, 2017
Bid Set

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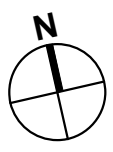
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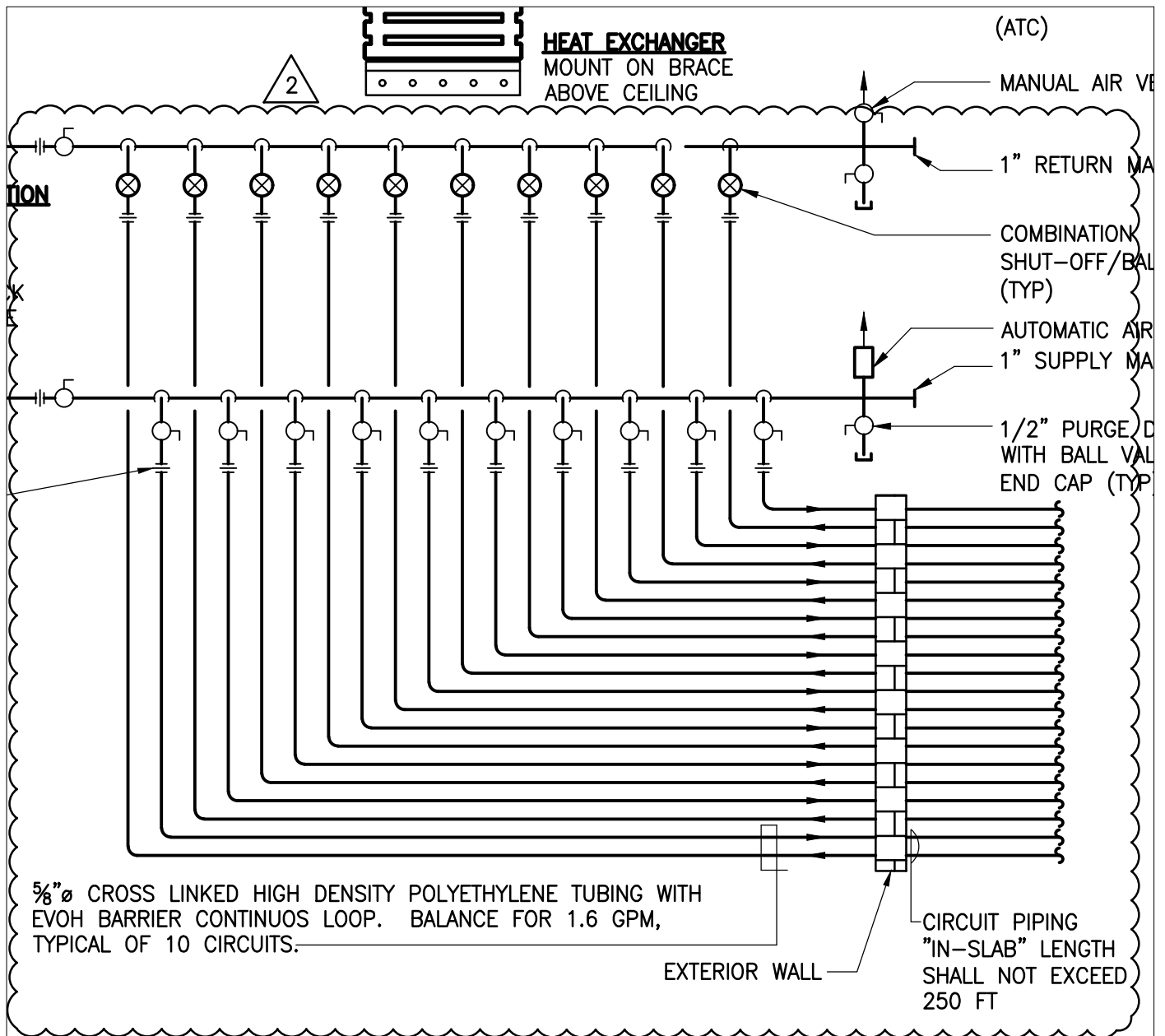
INTERIOR ELEVATIONS
Garrett College STEM Renovation and Addition
McHenry, MD

DATE	DESCRIPTION
2.17.17	Addendum 2

A-9.2
February 1, 2017
Bid Set

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HYDRONIC SNOW MELT PIPING DETAIL

SCALE: NOT TO SCALE

Garrett College STEM Addition & Renovation

REF - M-7.4 - MECHANICAL DETAILS

SCALE: NONE

DATE

02/17/17

ADD

M-2.1

G+P

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DESIGN NOTES:

1. HYDRONIC SNOW MELTING SLAB SHALL CONSIST OF RAMPS AND LANDINGS AS OUTLINED/SHOWN. REFER TO ARCHITECTURAL DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION ON RAMP AND LANDING CONSTRUCTION. THE MANUFACTURER SHALL CONFIRM ALL EQUIPMENT CAPACITY BASED ON AREA SERVED.
2. DESIGN AND INSTALL CIRCUIT PIPING PER MANUFACTURERS (VIEGA) RECOMMENDATIONS.
3. DESIGN PARAMETERS:

VIEGA SYSTEM: DESIGN LEVEL TYPE II
TOTAL SNOW MELT AREA: APROX. 1,460 FT²
UNIT HEAT LOAD: 200 BTUH/FT²
WATER TEMPERATURE: 130 °F
AVG. SPACING: 9 IN.

2

PLATE AND FRAME HEAT EXCHANGER

292,000 BTUH HEAT TRANSFER
PROPYLENE GLYCOL (40%) – COLD SIDE
15.8 GPM FLOW RATE
0.94 BTU/LB °F – SPECIFIC HEAT
1.03 SPECIFIC GRAVITY
0.28 BTU/HR FT °F – THERMAL CONDUCTIVITY
1.26 CPS @ AVG. TEMPERATURE – VISCOSITY
90°F INLET WATER TEMPERATURE
130°F OUTLET WATER TEMPERATURE
5 FT. OF HEAD MAX. WPD
15 CHANNELS, 0.49 FT/SEC
HEATING WATER – HOT SIDE
29.6 GPM FLOW RATE
1.00 BTU/LB °F – SPECIFIC HEAT
1.00 SPECIFIC GRAVITY
0.38 BTU/HR FT °F – THERMAL CONDUCTIVITY
0.93 CP @ AVG. TEMPERATURE – VISCOSITY
140°F INLET WATER TEMPERATURE
120°F OUTLET WATER TEMPERATURE
10.3 FT. OF HEAD MAX. WPD
14 CHANNELS, 0.98 FT/SEC
MANUFACTURER: VIEGA HEAT EXCHANGER

2

INJECTION PUMP

17 GPM, 30' HD
115V/1Ø/60Hz
3/4 HP
BRONZE CONSTRUCTION
SELECTION BASED ON TACO IL133

HYDRONIC SNOW MELT NOTES

SCALE: NOT TO SCALE

Garrett College STEM Addition & Renovation

REF - M-7.4 - MECHANICAL DETAILS

SCALE: NONE

DATE

02/17/17

ADD

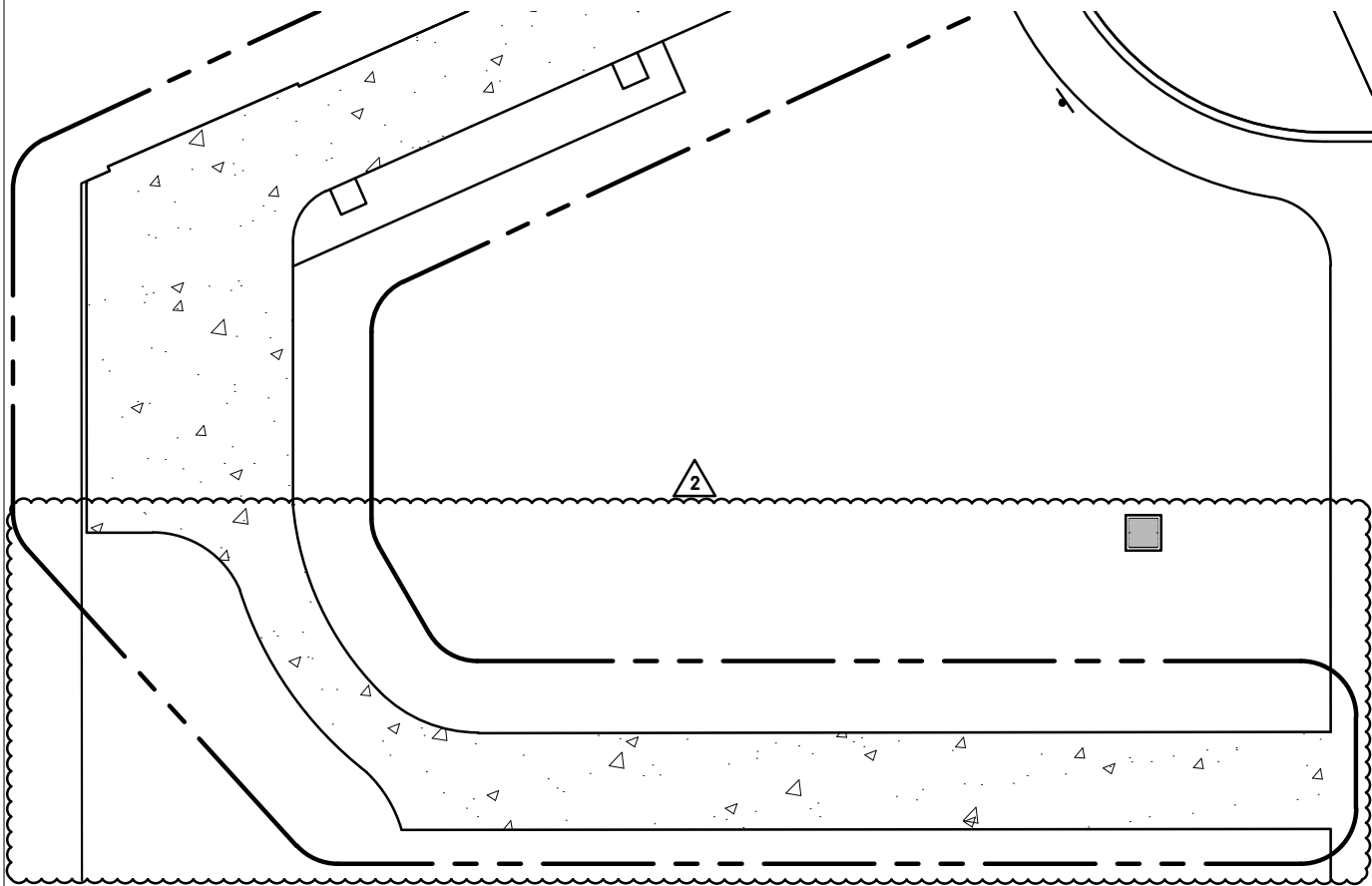
M-2.2



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HYDRONIC HEAT SNOW MELTING PART PLAN

SCALE: NOT TO SCALE

Garrett College STEM Addition & Renovation
REF - M-7.4 - MECHANICAL DETAILS

SCALE: NONE

DATE
02/17/17

ADD
M-2.3



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