



ADDENDUM

Project: **Crestwood School District
Crestwood High School
Field Building & Site Improvements**

Project No.: **5622**

Date: **March 27, 2023**

Addendum Number: **#2**

Each Bidder's proposal amount shall include the work described herein.

This Addendum is hereby made a part of the Contract Documents. Unless otherwise indicated, the work described herein shall comply with, and be equal in all respects to the original Specification and Drawings accompanying same. Include incidental work required to properly complete the work, whether stated herein or not.

DRAWING REVISIONS

A3.00 – Exterior Elevations

CHANGE:

- FROM:** 4" brick veneer to match existing (install header course every 6 rows of brick). — color to Belden Brick "1-HB".
- TO:** 4" brick veneer to match existing (install header course every 6 rows of brick). — color to Belden Brick "Sandford".

A3.01 – Exterior Elevations

CHANGE:

- FROM:** 4" brick veneer to match existing (install header course every 6 rows of brick). — color to Belden Brick "1-HB".
- TO:** 4" brick veneer to match existing (install header course every 6 rows of brick). — color to Belden Brick "Sandford".

Mechanical and Electrical Drawings

Refer to mechanical and electrical write up for further information regarding the attached sheets.

GENERAL

Editable Proposal Forms:

Issued for contractors use in submitting its bid.

RFI Questions and Answers

RFI Question 11: Is the area shaded red to be included in the scope of work?

RFI Answer 11: No, it is not a part of this project's scope as it is part of the Phase 1 project which is currently under construction.



RFI Question 12: Provide Specification for the Vinyl Fence. Is this part of Alt No.2?

RFI Answer 12: This item will be addressed in Addendum #3 to be issued later this week.

RFI Question 13: Provide steel size & radius for Iron Arch. What is the finish for the Iron Arch? What material is the lettering? Is the arch extended into the footing pier?

RFI Answer 13: This item will be addressed in Addendum #3 to be issued later this week.

RFI Question 14: Provide detail on bench supports refer to detail B3/A9.03. What type of bracket is this?

RFI Answer 14: Refer to Addendum #1 for information regarding the specified bench.



Mechanical
Electrical
Energy Management
Communication Technologies
Architectural Lighting Design
Commissioning

ADDENDUM

Project Name: Crestwood School District
Crestwood High School
Field Building & Site Improvements

PBA Project Number: 2022.0428.00

Addendum Number: Two (2)

Date: March 27, 2023

Each Bidder's proposal shall include the work described herein.

Unless otherwise indicated, the work described herein shall comply with, and be equal in all respects to, the original Specifications and the Drawings accompanying same. Include incidental work required to properly complete the work, whether stated herein or not.

Specifications Issued: None

Drawings Issued: M2.00, M2.01, E5.11

Mechanical Drawing Items:

MD-1 Refer to Drawing M2.00 & M2.01 (Re-Issued)

1. Clarify Invert elevation of sanitary lead at Building A & B, as indicated.

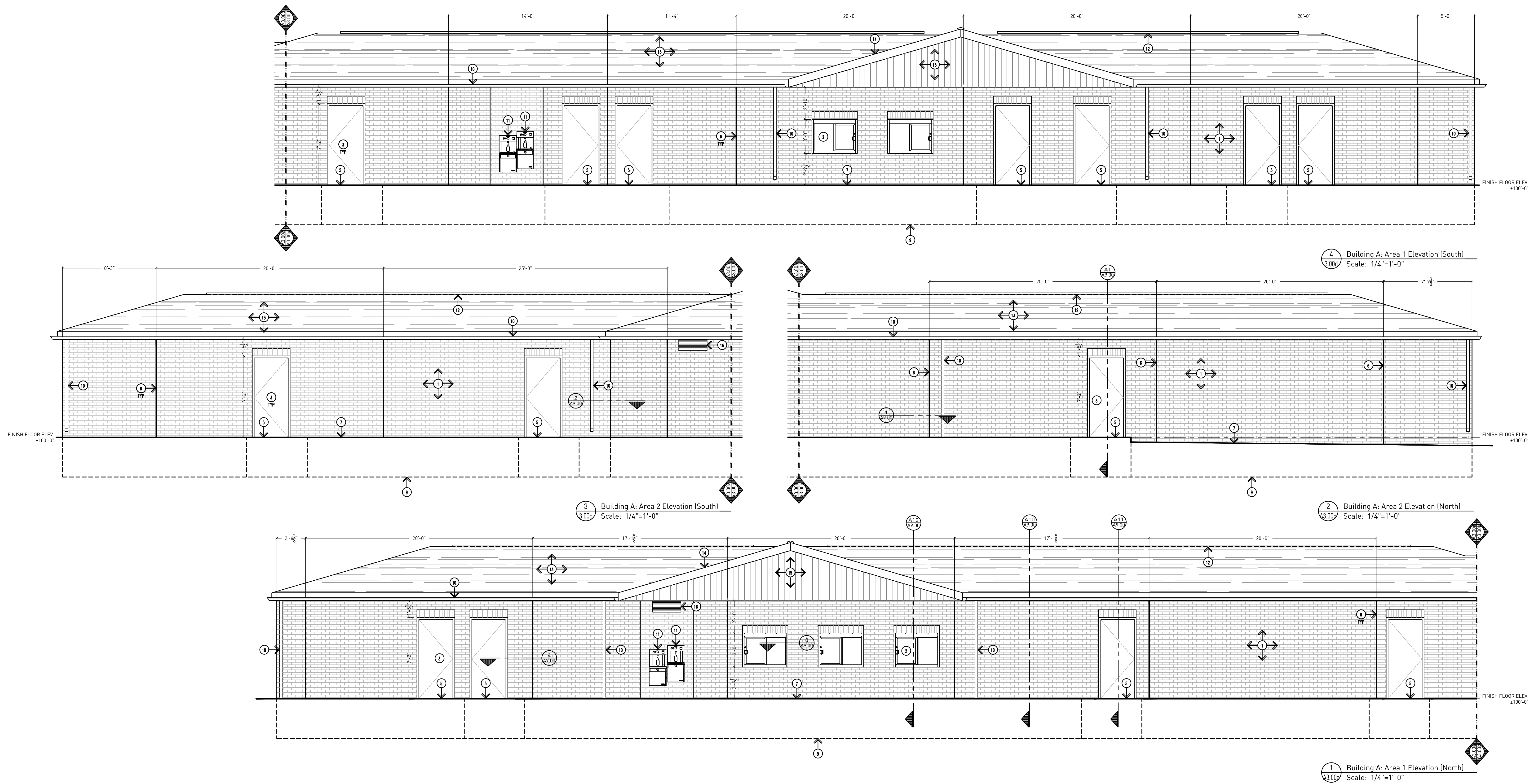
Electrical Drawing Items:

ED-1 Refer to Drawing E5.11 (Re-Issued)

1. Revise circuit breaker types.

End of Addendum.

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DRAWING NOTES CONTINUED:

- 15. VERTICAL ALUMINUM SIDING - REFER TO SPECIFICATIONS.
- 16. TRANSFER GRILLE - REFER TO MECHANICAL.
- 17. SECTIONAL OVERHEAD DOOR WITH ELECTRIC OPERATOR - REFER TO SPECIFICATIONS.

DRAWING NOTES:

- 2. SIDE SLIDING SERVING WINDOW WITH AUTOMATIC CLOSING AND LOCKING - REFER TO WINDOW SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 3. DOOR, FRAME, HARDWARE, AND FINISH - REFER TO DOOR SCHEDULE AND SPECIFICATIONS FOR FURTHER INFORMATION.
- 4. PREFINISHED ALUMINUM SILL.
- 5. FROST SLAB.
- 6. BRICK EXPANSION JOINT - PROVIDE JOINTS PER MIN. RECOMMENDATIONS. MAX 20 FT O.C. TYP. CORNER JOINTS TO BE 20 FT APART MAX WITH ONE OF THE JOINTS AT LEAST 4" AND NOT MORE THAN 10 FT FROM THE CORNER.
- 7. APPROXIMATE LINE OF GRADE.
- 8. CONTROL JOINT BETWEEN BUILDINGS.
- 9. LINE OF FOUNDATION - REFER TO STRUCTURAL DRAWINGS.
- 10. GUTTERS AND DOWNSPOUTS.
- 11. ELECTRIC WATER COOLER WITH BOTTLE FILLER MOUNTED PER BARRIER FREE REQUIREMENTS. REFER TO MECHANICAL DRAWINGS.
- 12. RIDGE VENT.
- 13. ASPHALT SHINGLES.
- 14. FASCIA.

GENERAL NOTES:

- G1. DO NOT SCALE DRAWING. DRAWING SCALE IS SHOWN FOR GENERAL REFERENCE ONLY.
- G2. ALL NOTES MAY NOT APPLY TO THIS SHEET.
- G3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING ON THE WORK.
- G4. PROTECT ALL ITEMS TO REMAIN FROM CONSTRUCTION OPERATIONS SO AS TO NOT CAUSE DAMAGE.
- G5. ALL AREAS DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE PATCHED, REPAIRED, AND FINISHED BACK TO EXISTING CONDITION.
- G6. PROVIDE CONTINUOUS VAPOR AND AIR BARRIER PRIOR TO INSTALLATION OF RIGID AND/OR SPRAY INSULATION. BARRIER SYSTEM SHALL BE CONTINUOUS AROUND THE BUILDING ENVELOPE AND INCLUDES ALL PROPER TECHNIQUES FOR PENETRATIONS, ETC.
- G7. PROVIDE BRICK EXPANSION JOINTS WITH SEALANT AND BACKER ROD PER MASONRY INSTITUTE RECOMMENDATIONS.
- G8. PROVIDE SEALANT AND FOAM BACKER ROD TO SUIT CONDITIONS AROUND ALL WINDOW AND DOOR OPENINGS/PERIMETER.
- G9. REFER TO STRUCTURAL DRAWINGS FOR ANY STEPPED FOOTING LOCATION, ETC.
- G10. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH APPLICABLE MANUFACTURERS.

DRAWING NOTES:

- 1. 4" BRICK VENEER TO MATCH EXISTING (INSTALL HEADER COURSE EVERY 6 ROWS OF BRICK) -- COLOR TO BE GELDEN BRICK "SANDFORD".

Bidding and Permits: 20 March 2023

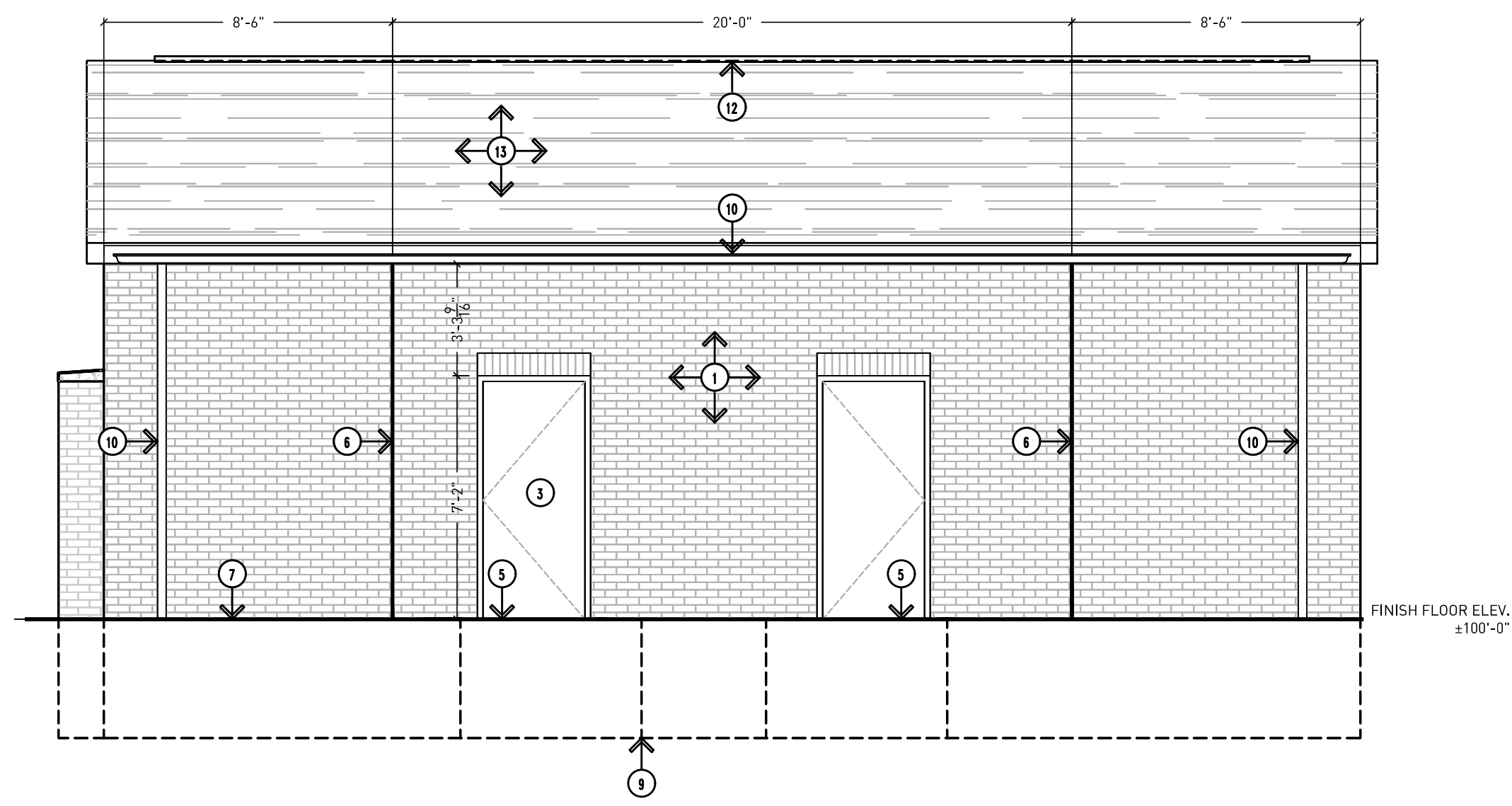
Exterior Elevations



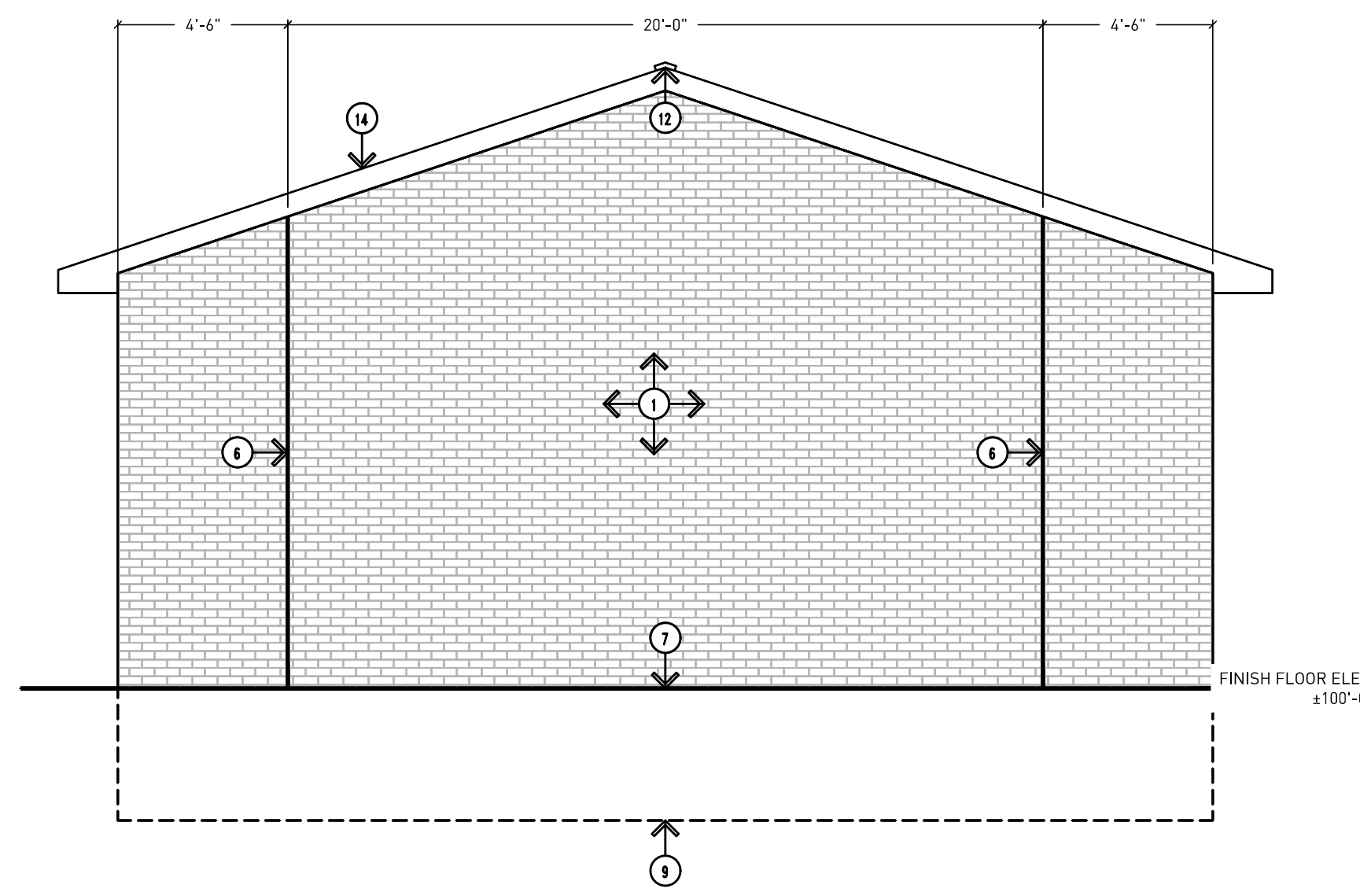
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

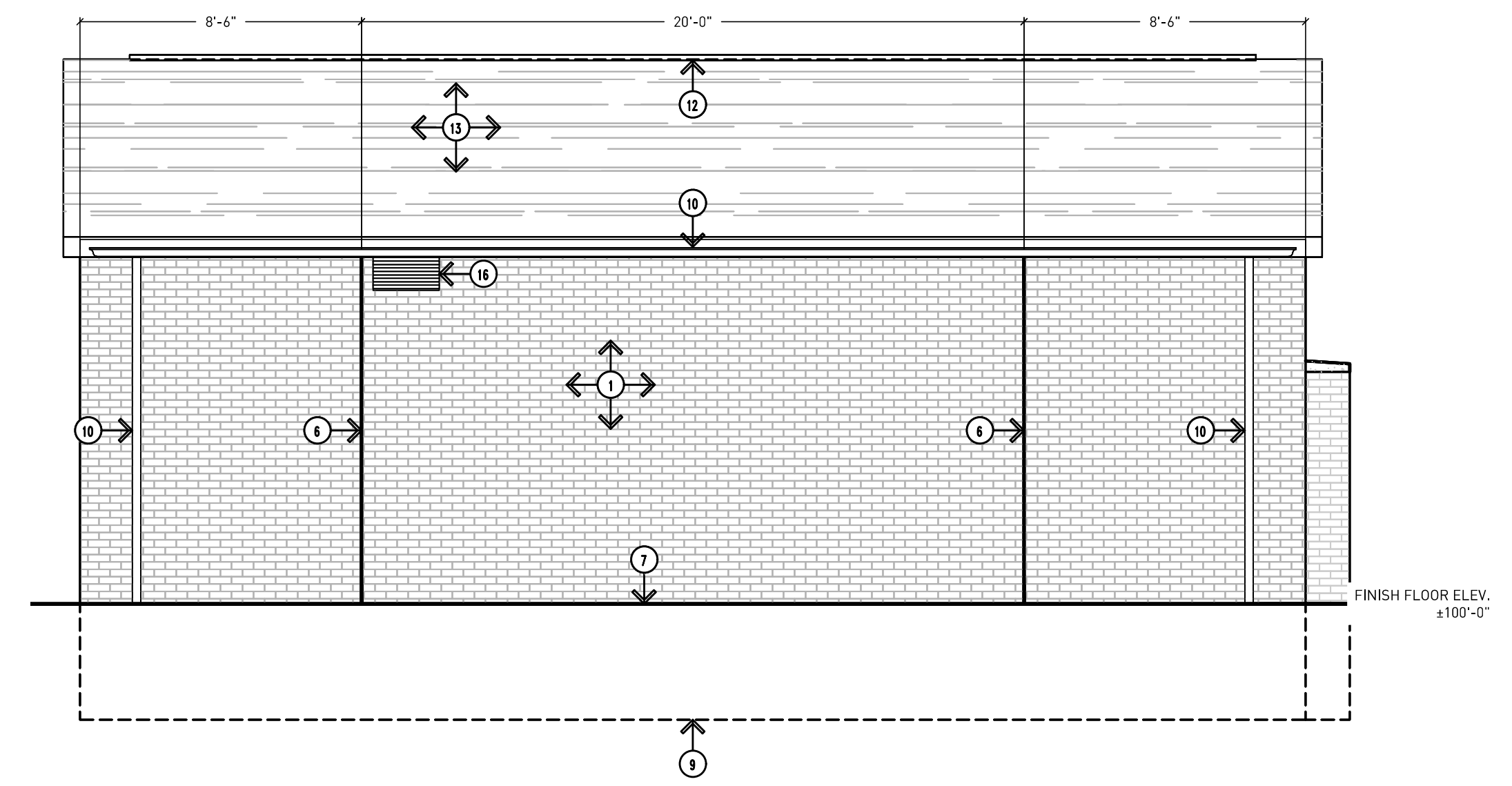
A3.00



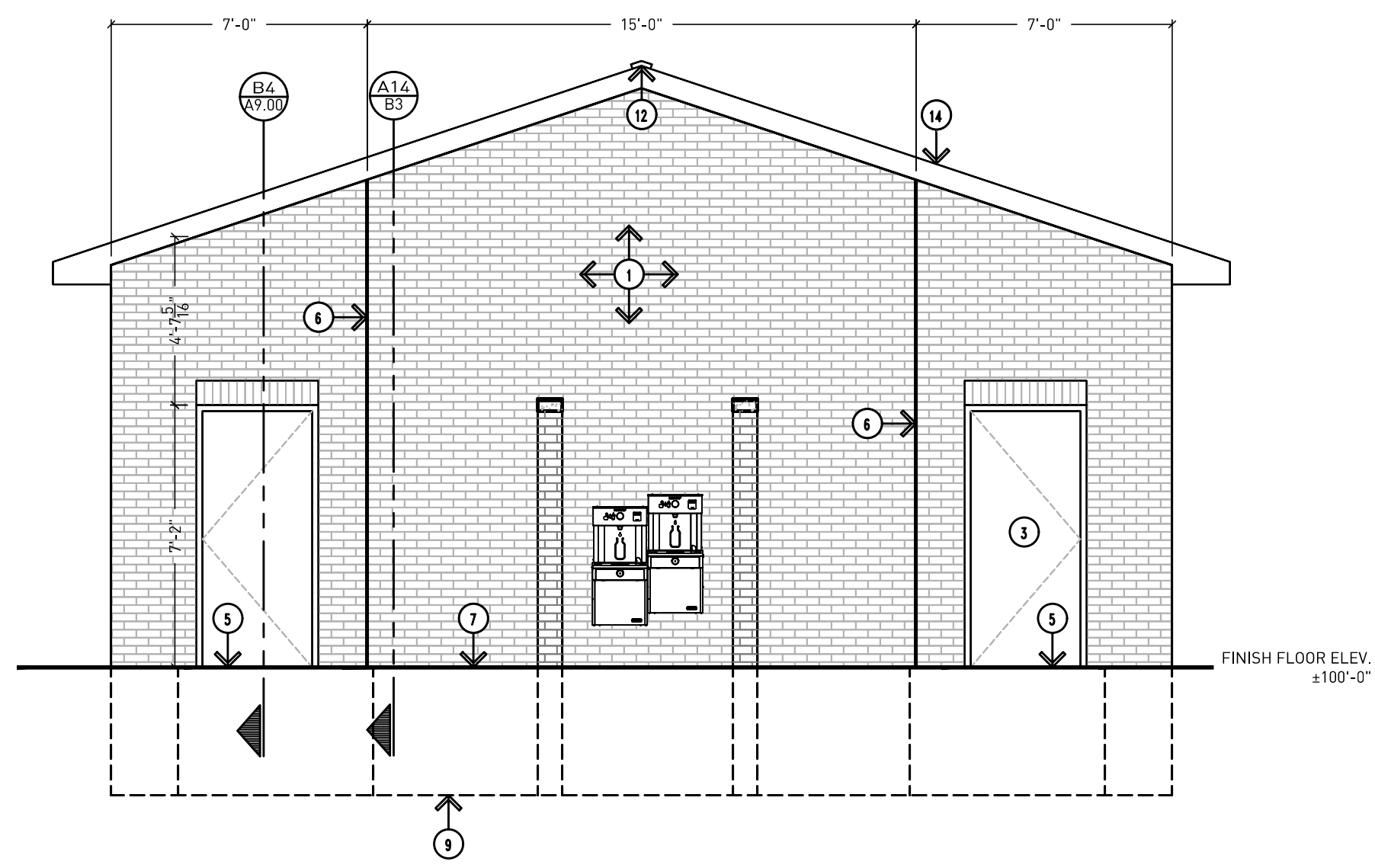
6 Building B Elevation (West)
3.01 Scale: 1/4"=1'-0"



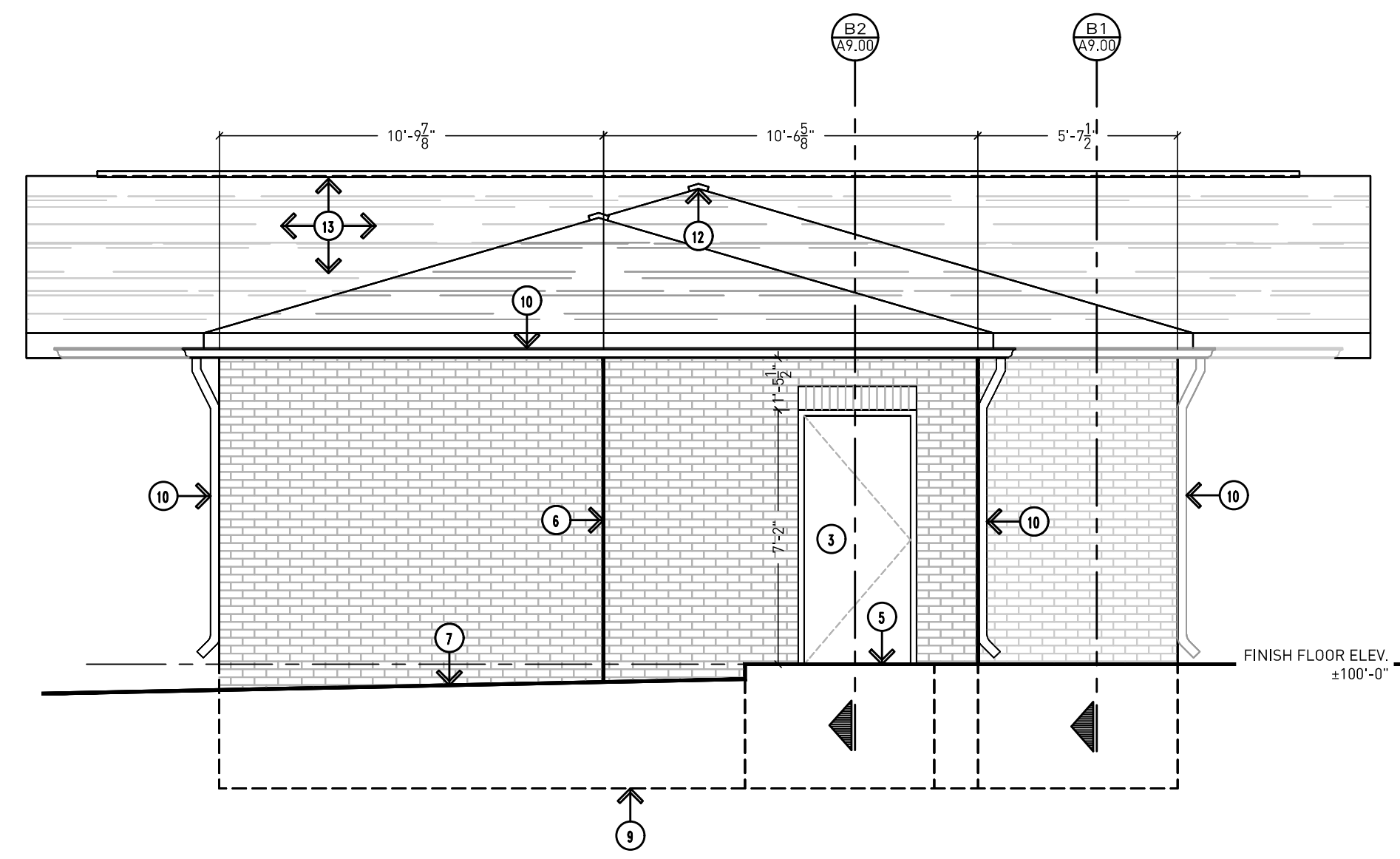
5 Building B Elevation (South)
3.01 Scale: 1/4"=1'-0"



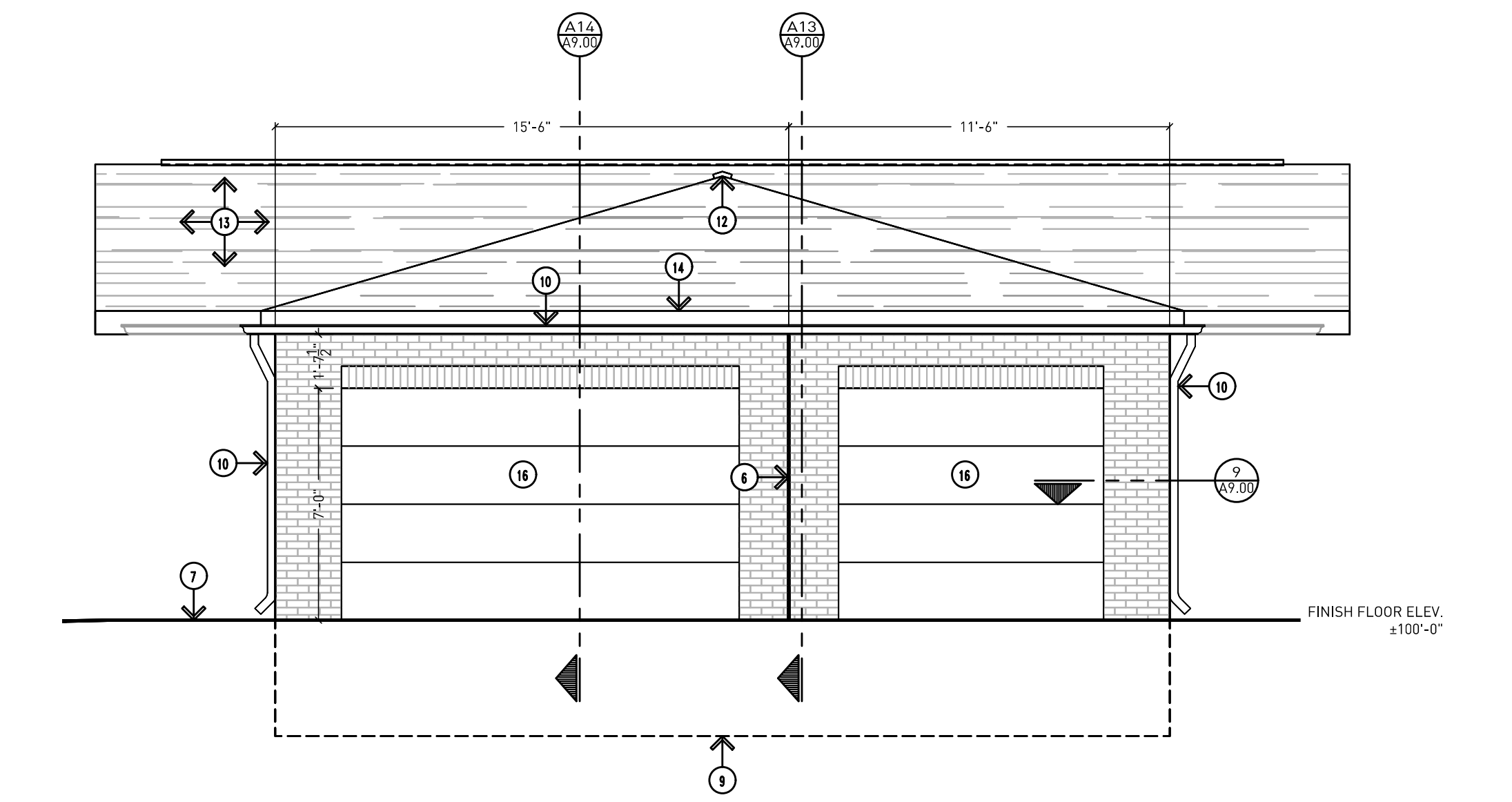
4 Building B Elevation (East)
3.01 Scale: 1/4"=1'-0"



3 Building B Elevation (North)
3.01 Scale: 1/4"=1'-0"



2 Building A Elevation (West)
3.01 Scale: 1/4"=1'-0"



1 Building A Elevation (East)
3.01 Scale: 1/4"=1'-0"

DRAWING NOTES CONTINUED:

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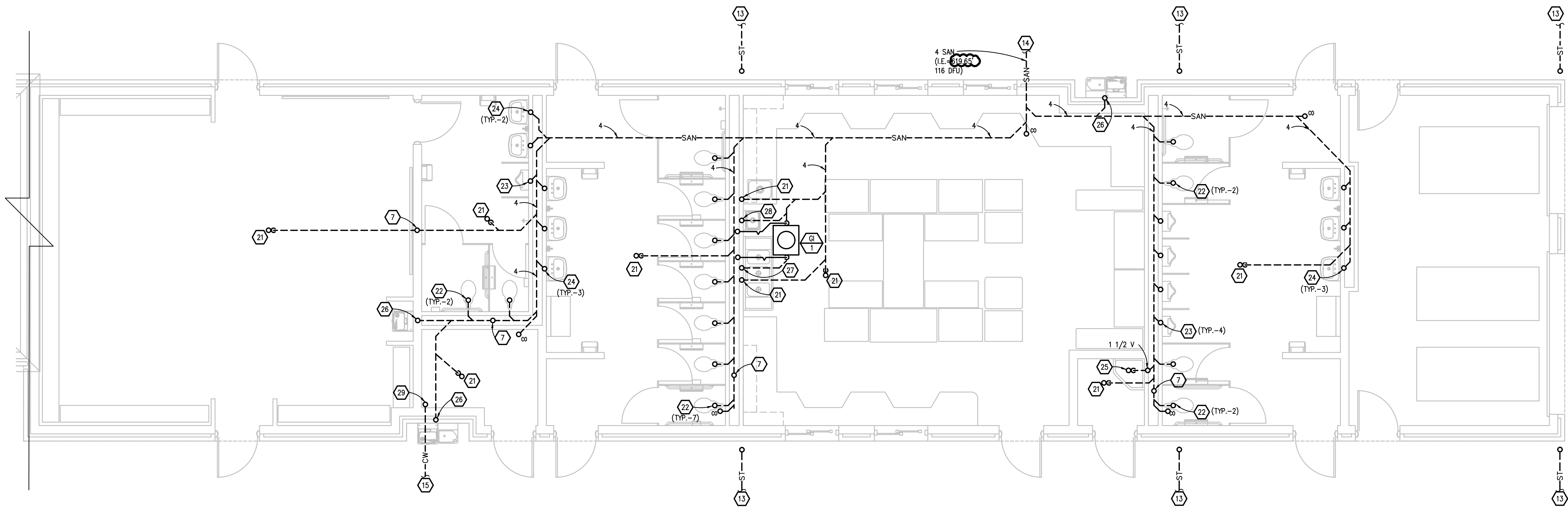
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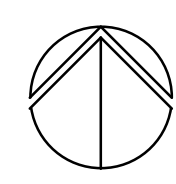
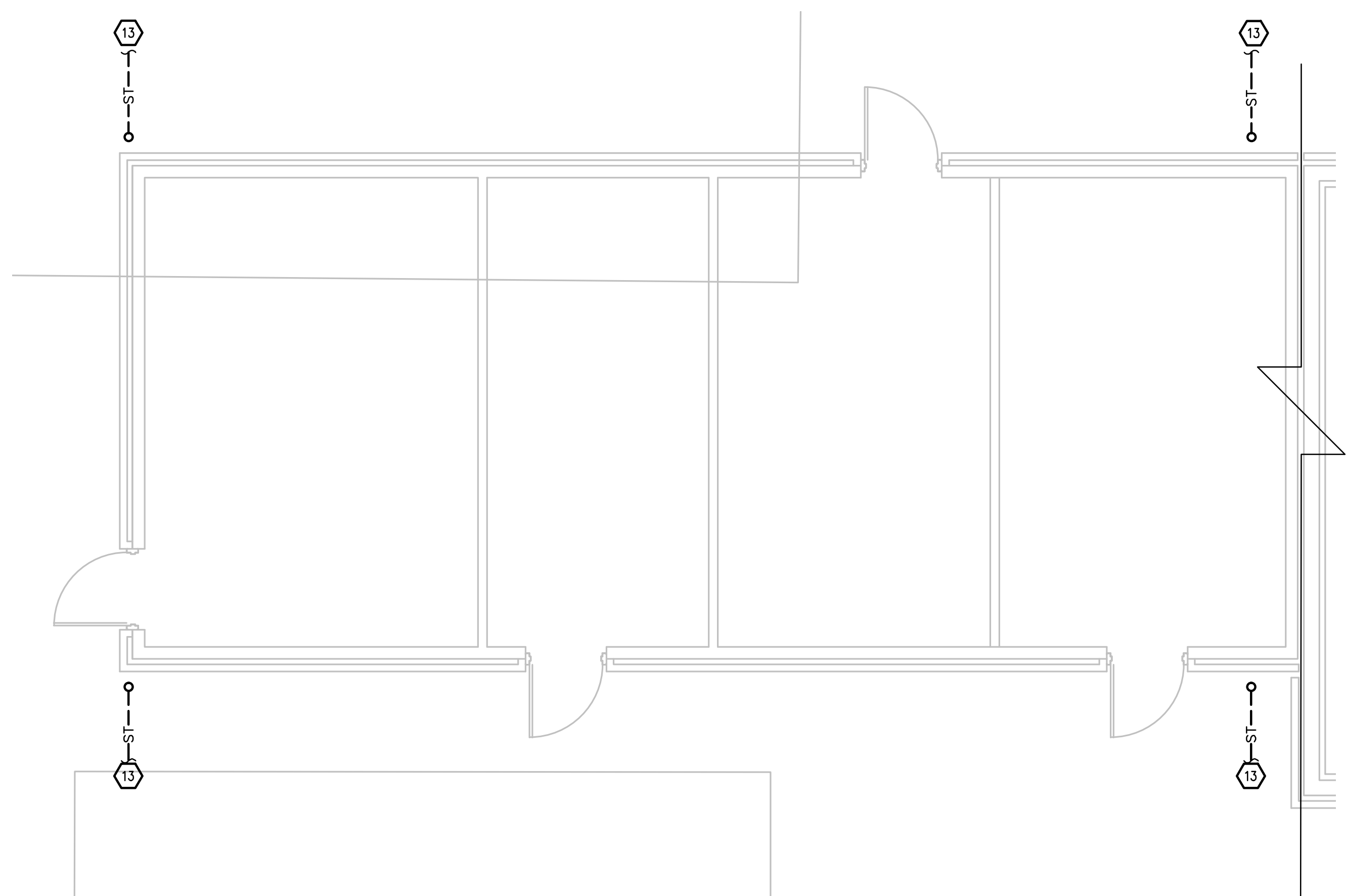
Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

A3.01



BUILDING A UNDERGROUND PLUMBING PLAN - AREA 1
SCALE: 1/4" = 1' - 0"



BUILDING A UNDERGROUND PLUMBING PLAN - AREA 2
SCALE: 1/4" = 1' - 0"

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS, THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 2".
11. WATER SERVICE ENTRANCE PIPING SHALL BE BURIED WITH DEPTH OF COVER OVER TOP OF PIPE OF AT LEAST 60", OR WITH TOP OF PIPE AT LEAST 12" BELOW LEVEL OF MAXIMUM FROST PENETRATION, OR AS REQUIRED BY AUTHORITIES HAVING JURISDICTION, WHICHEVER IS DEEPEST.
12. PROVIDE ACCESS PANELS FOR ALL VALVES ABOVE HARD CEILINGS.

CONSTRUCTION KEY NOTES:

1. 3 V UP TO 3 VTR
2. CW GOES DOWN UNDERGROUND TO SERVICE SMALLER FIELDHOUSE. SEE M0.2 FOR CONTINUATION.
3. 3 CW FROM UNDERGROUND. REFER TO U/G PLUMBING PLANS.
4. 2 CW LINE DROPS DOWN TO SERVE (7) WATER CLOSETS, TRIPLE-COMPARTMENT SINK, HAND SINK AND COUNTER SINK, REMAINING UNDIMINISHED. REFER TO FOOD SERVICE DRAWINGS FOR INDIVIDUAL CONNECTION SIZES.
5. 2 CW REMAINS UNDIMINISHED TO FARTHEST FIXTURE.
6. 2 CW LINE DROPS DOWN TO SERVE (4) URINALS AND (4) WATER CLOSETS REMAINING UNDIMINISHED. PROVIDE ISOLATION VALVE.
7. 2 V UP.
8. 2 CW LINE DROPS DOWN TO SERVE (5) LAVATORIES AND (1) URINAL REMAINING UNDIMINISHED.
9. 2 V FROM UNDERGROUND.
10. 1 1/4 HW LINE DROPS DOWN TO SERVE (5) LAVATORIES. PROVIDE 1070 A.S.S.E. THERMOSTATIC MIXING VALVE FOR EACH LAVATORY.
11. 1 1/2 140 HW LINE DROPS DOWN TO FEED TRIPLE COMPARTMENT SINK, HAND SINK AND SINGLE COMPARTMENT COUNTER SINK. PROVIDE 1070 A.S.S.E. THERMOSTATIC MIXING VALVE FOR HAND SINK.
12. 1/2 CW (FILTER) DOWN TO COFFEE MAKER. PROVIDE ASSOCIATED WALL MOUNTED INLINE FILTER 48" A.F.F.. PROVIDE CODE COMPLIANT BACKFLOW PREVENTION DEVICE FOR THE CW LINE TO THE COFFEE MAKER.
13. 4 STORM. REFER TO CIVIL FOR INVERT ELEVATION.
14. 4 SANITARY. REFER TO CIVIL.
15. INCOMING 3 CW LINE. (FROM MAIN BOILER ROOM) REFER TO 'INCOMING DOMESTIC WATER PIPING DETAIL'.
16. EQUIPMENT TO SIT ON 4 INCH CONCRETE HOUSEKEEPING PAD.
17. SERVICE CLEARANCE.
18. BOOSTER PUMP CONTROL PANEL. (PROVIDE MIN. 42 INCH CLEARANCE IN FRONT)
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25. 3 SAN UP TO SERVICE SINK.
26. 3 SAN UP TO ELECTRIC WATER COOLER.
27. 3 SAN UP TO SINK BASIN.
28. 3 SAN UP TO HAND SINK.
29. CW LINE UP. SEE ABOVEGROUND PLUMBING PLANS FOR CONTINUATION.
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Addendum #2: 27 March 2023
Bidding and Permits: 20 March 2023

BUILDING A UNDERGROUND PLUMBING PLAN



Crestwood School District
Crestwood High School
Field Building & Site Improvements

Project No. 5622

M2.00

Peter Basso Associates Inc.
CONSULTING ENGINEERS
5145 Livernois, Suite 100
Troy, Michigan 48068-3276
Tel: 248-879-5666
Fax: 248-879-0007
www.PeterBassoAssociates.com
PBA Project No: 2022.0428

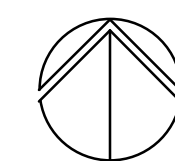
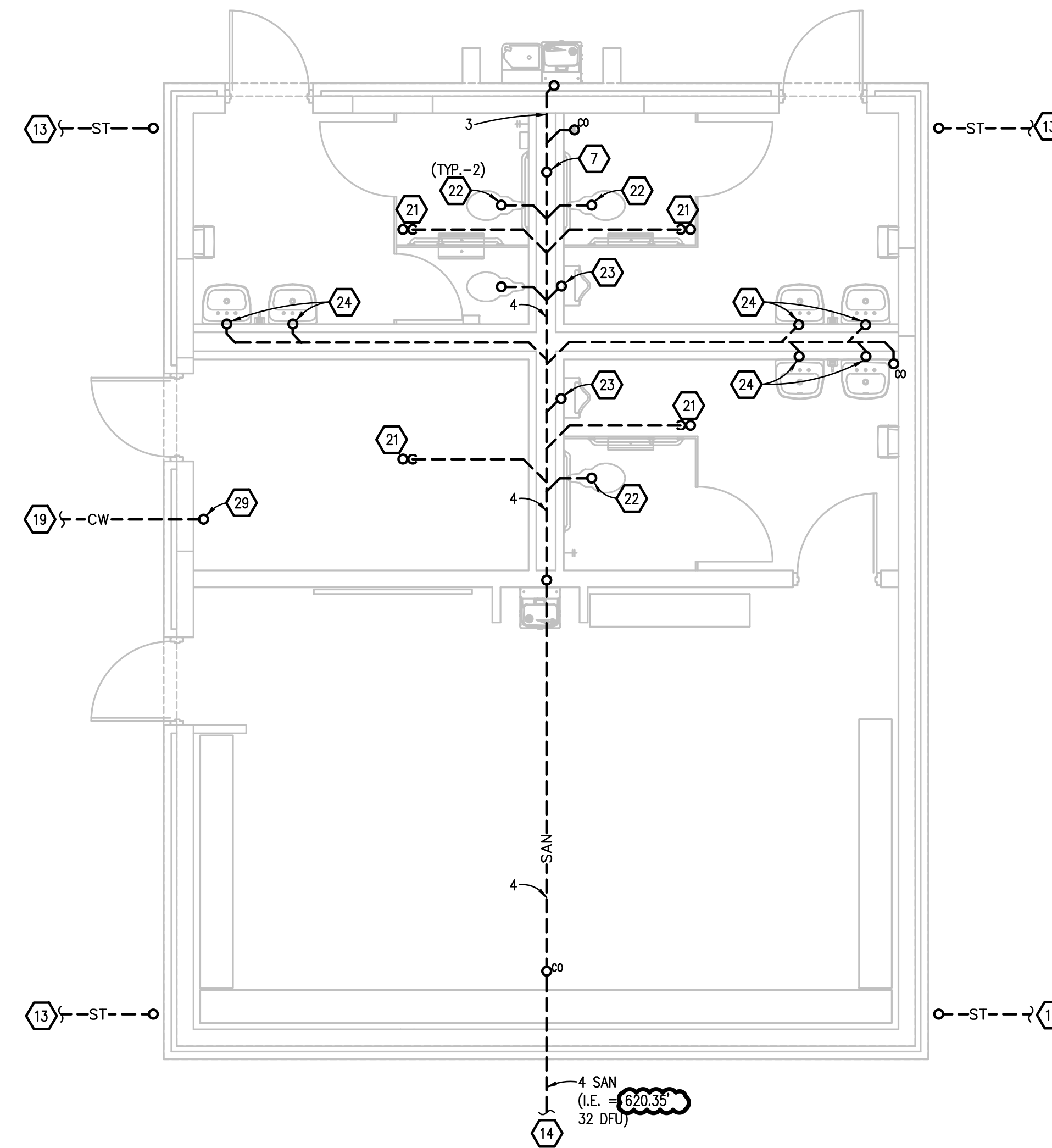
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BUILDING B UNDERGROUND PLUMBING PLAN
SCALE: 1/4" = 1' - 0"

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BUILDING B UNDERGROUND PLUMBING PLAN



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PBA Project No: 2022.0428



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M2.01

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EXISTING RP-CB																	
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#			
1	NC	SPARE		60		250		250	20			EXISTING LOAD	NC	2			
3	NC	EXISTING LOAD		20	250	500		250	20			EXISTING LOAD	NC	4			
5	NC	EXISTING LOAD		20	250	500		250	20			EXISTING LOAD	NC	6			
7	NC	EXISTING LOAD		20	250	500		250	20			EXISTING LOAD	NC	8			
9	NC	EWC	GFCI	20	500	750		250	20			EXISTING LOAD	NC	10			
11	NC	EWC	GFCI	20	500	750		250	20			EXISTING LOAD	NC	12			
13	NC	EF-3		15	700	950		250	20			EXISTING LOAD	NC	14			
15	NC	ERCP-1		20	750	1000		250	20			EXISTING LOAD	NC	16			
17	NC	RECEPTACLES		20	900	1150		250	20			EXISTING LOAD	NC	18			
19	NC	EXISTING LOAD		20	250	500		250	20			EXISTING LOAD	NC	20			
					3600	3000											
					ØA	ØB	ØC										
PANELBOARD INFORMATION			BRANCH CIRCUIT CONNECTED LOAD			DEMAND FACTOR			CALCULATED LOAD			FEEDER AND OVERCURRENT SIZING			NOTES:		
VOLTAGE: 120/208-1Ø			CONTINUOUS LOAD (C)			100%			125%								
BUS AMPACITY: 100A			ELECTRIC HEAT (E)			100%			100%								
MAIN TYPE: 100A MCB			NON-CONTINUOUS LOAD (NC)			6600			6600			6600					
MINIMUM A.I.C.: 10,000			KITCHEN LOAD (K)			100%			100%								
MOUNTING: SURFACE			RECEPTACLE BASE LOAD (R)			100%			100%								
			RECEPTACLE DEMAND LOAD (R)			50%			100%								
			LIGHTING LOAD (L)			100%			125%								
			ADDITIONAL TRACK LIGHTING LOAD			100%			100%								
			MOTORS, HIGHEST LOAD (MH)			125%			100%								
			MOTORS, REMAINING LOAD (M)			100%			100%								
PANELBOARD LOCATION			TOTAL(KVA): 6.60			TOTAL (AMPS): 32			TOTAL (AMPS): 32								
			NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD														

LP-CN3																	
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#			
1	NC	SPARE		25	3460	7710		4250	20			EXISTING LOAD	NC	2			
3	NC	EMH-2		25	3460	7710		4250	20			EXISTING LOAD	NC	4			
5	NC	SPARE		20	1670	1760		1670	20			EXTERIOR LIGHTING	L	8			
7	NC	EUH-4		20	1670	1670		1670	20			SPACE		10			
11	NC	SPARE		20	2150	2150		2150	20			SPACE		12			
13	NC	EUH-10		20	2150	2150		2150	20			SPACE		14			
15	NC	SPARE		20	2150	2150		2150	20			SPACE		16			
17	NC	SPARE		20	2150	2150		2150	20			SPACE		18			
19	NC	EUH-9		20	2150	2150		2150	20			SPACE		20			
21	NC	SPARE		20	2150	2150		2150	20			SPACE		22			
23	NC	SPARE		20	2150	2150		2150	20			SPACE		24			
					13770	13680	13680										
					ØA	ØB	ØC										
PANELBOARD INFORMATION			BRANCH CIRCUIT CONNECTED LOAD			DEMAND FACTOR			CALCULATED LOAD			FEEDER AND OVERCURRENT SIZING			NOTES:		
VOLTAGE: 480Y/277			CONTINUOUS LOAD (C)			100%			125%								
BUS AMPACITY: 100A			ELECTRIC HEAT (E)			100%			100%								
MAIN TYPE: 100A MCB			NON-CONTINUOUS LOAD (NC)			41040			41040			41040					
MINIMUM A.I.C.: 10,000			KITCHEN LOAD (K)			100%			100%								
MOUNTING: SURFACE			RECEPTACLE BASE LOAD (R)			100%			100%								
			RECEPTACLE DEMAND LOAD (R)			50%			100%								
			LIGHTING LOAD (L)			90			90			113					
			ADDITIONAL TRACK LIGHTING LOAD			100%			100%								
			MOTORS, HIGHEST LOAD (MH)			125%			100%								
			MOTORS, REMAINING LOAD (M)			100%			100%								
PANELBOARD LOCATION			TOTAL(KVA): 41.13			TOTAL (AMPS): 49			TOTAL (AMPS): 50								
			NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD														

LP-CN1																	
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#			
1	NC	EUH-6		20	4250	8500		4250	20			EXISTING LOAD	NC	2			
3	NC	EUH-1		20	4250	8500		4250	20			EXISTING LOAD	NC	4			
5	NC	EUH-2		20	4250	8500		4250	20			EXISTING LOAD	NC	6			
7	NC	EUH-3		20	4250	8500		4250	20			EXISTING LOAD	NC	8			
9	NC	EUH-4		20	4250	8500		4250	20			EXISTING LOAD	NC	10			
11	NC	EUH-5		20	4250	8500		4250	20			EXISTING LOAD	NC	12			
13	NC	EUH-6		20	4250	8500		4250	20			EXISTING LOAD	NC	14			
15	NC	EUH-7		20	4250	8500		4250	20			EXISTING LOAD	NC	16			
17	NC	EUH-8		20	4250	8500		4250	20			EXISTING LOAD	NC	18			
19	NC	EUH-9		20	4250	8500		4250	20			EXISTING LOAD	NC	20			
21	NC	EUH-10		20	4250	8500		4250	20			EXISTING LOAD	NC	22			
23	NC	EUH-11		45	5550	6650		1100	20			EXISTING LOAD	NC	24			
25	NC	EUH-12		45	5550	6650		1100	20			EXISTING LOAD	NC	26			
27	NC	EUH-13		45	5550	6650		1100	20			EXISTING LOAD	NC	28			
29	NC	EUH-14		45	5550	6650		1100	20			EXISTING LOAD	NC	30			
31	NC	EUH-15		20	1670	2930		1260	20			INTERIOR LIGHTING	L	32			
33	NC	EUH-16		20	1670	2000		330	20			EXTERIOR LIGHTING	L	34			
35	NC	EUH-17		20	1670	1670		1670	20			SPACE		36			
37	NC	EUH-18		20	4250	6570		2320	30			BP-1	MH	38			
39	NC	EUH-19		20	4250	6570		2320	30			BP-1	MH	40			
41	NC	EUH-20		20	4250	6570		2320	30			BP-1	MH	42			
43	NC	SPACE										SPACE		44			
45	NC	SPACE										SPACE		46			
47	NC	SPACE										SPACE		48			
49	NC	SPACE										SPACE		50			
51	NC	SPACE										SPACE		52			
53	NC	SPACE										SPACE		54			
55	NC	SPACE										SPACE		56			
57	NC	SPACE										SPACE		58			
59	NC	SPACE										SPACE		60			
					47000	48070	45740										
					ØA	ØB	ØC										
PANELBOARD INFORMATION			BRANCH CIRCUIT CONNECTED LOAD			DEMAND FACTOR			CALCULATED LOAD			FEEDER AND OVERCURRENT SIZING			NOTES:		
VOLTAGE: 480Y/277			CONTINUOUS LOAD (C)			100%			125%								
BUS AMPACITY: 225A			ELECTRIC HEAT (E)			100%			100%								
MAIN TYPE: 225A MCB			NON-CONTINUOUS LOAD (NC)			130260			130260			130260					
MINIMUM A.I.C.: 10,000			KITCHEN LOAD (K)			100%			100%								
MOUNTING: SURFACE			RECEPTACLE BASE LOAD (R)			100%			100%								
			RECEPTACLE DEMAND LOAD (R)			50%			100%								
			LIGHTING LOAD (L)			1590			1590			1988					
			ADDITIONAL TRACK LIGHTING LOAD			100%			100%								
			MOTORS, HIGHEST LOAD (MH)			6960			8700			8700					
			MOTORS, REMAINING LOAD (M)			100%			100%								
PANELBOARD LOCATION			TOTAL(KVA): 140.55			TOTAL (AMPS): 169			TOTAL (AMPS): 170								
			NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD														

EXISTING RP-FB																	
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#			
1	NC	EUH-11		20	3460	7710		4250	20			EXISTING LOAD	NC	2			
3	NC	EUH-12		20	3460	7710		4250	20			EXISTING LOAD	NC	4			
5	NC	EUH-13		20	3460	7710		4250	20			EXISTING LOAD	NC	6			
7	NC	EUH-14		20	1670	1760		1670	20			EXTERIOR LIGHTING	L	8			
9	NC	EUH-15		20	1670	1670		1670	20			SPACE		10			
11	NC	EUH-16		20	2150	2150		2150	20			SPACE		12			
13	NC	EUH-17		20	2150	2150		2150	20			SPACE		14			
15	NC	EUH-18		20	2150	2150		2150	20			SPACE		16			
17	NC	EUH-19		20	2150	2150		2150	20			SPACE		18			
19	NC	EUH-20		20	2150	2150		2150	20			SPACE		20			
21	NC	EUH-21		20	2150	2150		2150	20			SPACE		22			
23	NC	EUH-22		20	2150	2150		2150	20			SPACE		24			
					13770	13680	13680										
					ØA	ØB	ØC										
PANELBOARD INFORMATION			BRANCH CIRCUIT CONNECTED LOAD			DEMAND FACTOR			CALCULATED LOAD			FEEDER AND OVERCURRENT SIZING			NOTES:		
VOLTAGE: 480Y/277			CONTINUOUS LOAD (C)			100%			125%								
BUS AMPACITY: 225A			ELECTRIC HEAT (E)			100%			100%								
MAIN TYPE: 225A MCB			NON-CONTINUOUS LOAD (NC)			130260			130260			130260					
MINIMUM A.I.C.: 10,000			KITCHEN LOAD (K)			100%			100%								
MOUNTING: SURFACE			RECEPTACLE BASE LOAD (R)			100%			100%								
			RECEPTACLE DEMAND LOAD (R)			50%			100%								
			LIGHTING LOAD (L)			1590			1590			1988					
			ADDITIONAL TRACK LIGHTING LOAD			100%			100%								
			MOTORS, HIGHEST LOAD (MH)			6960			8700			8700					
			MOTORS, REMAINING LOAD (M)			100%			100%								
PANELBOARD LOCATION			TOTAL(KVA): 140.55			TOTAL (AMPS): 169			TOTAL (AMPS): 170								
			NOTE: DEMAND AND SIZING INFORMATION IS CALCULATED FROM CONNECTED LOAD														

RP-CN2														
#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	NC	C-CN1		20	250	700		450	20			GFCI 24 - SECURE FREEZER	K	2
3	R	RECEPTACLES		20	1080		2400	1320	20			GFCI 25 - HOT DOG ROLLER GRILL	K	4
5	NC	EWC	GFCI	20	750			2250	1500	20		GFCI 2		

**SECTION 00 4100
BID FORM**

THE PROJECT AND THE PARTIES

1.01 TO:

- A. Crestwood School District (Owner)
27235 Joy Road
Dearborn Heights, MI 48127

1.02 FOR:

- A. Project: Crestwood High School Field Buildings
- B. Architect's Project Number: 5622
1501 N. Beech Daly Road
Dearborn Heights, Michigan 48127

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER NAME AND ADDRESS)

- A. Bidder's Full Name _____
 - 1. Address _____
 - 2. City, State, Zip _____
 - 3. Phone Number _____
 - 4. Email Address _____

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Bid Documents prepared by Architect for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the Sum of:

- 1. Building A:

_____ dollars
(\$ _____), in lawful money of the United States of America.

- 2. Building B:

_____ dollars
(\$ _____), in lawful money of the United States of America.

- B. We have included the required Bid Bond as required by the Instruction to Bidders.
- C. We have included the required Performance Bond and Payment Bond in the Bid Amount as required by the Instructions to Bidders. The Bonds should be in the full contract sum (100%).
- D. All applicable federal taxes are included and State of Michigan taxes are included in the Bid Sum.
- E. **Submit two (2) hard copies of the bid forms prior to 2:00 p.m. on Tuesday, April 4, 2023. Provide an electronic copy (flash drive) of the entire Proposal including, but not limited to: the Proposal Form, Contractor Qualifications Form, Bid Security, Familial Relationship Disclosure Form, Affidavit of Compliance - Iran Economic Sanctions Act Form, Unit Prices Form, and Alternates Form. If a flash drive is not included, please email a copy of the bid documents to architects@ehresmanarchitects.com before noon on Wednesday, April 5, 2023.**

1.06 ACCEPTANCE

- A. This offer shall be open to acceptance and is irrevocable for 90 days from the bid closing date. Once the contract is executed, the office shall hold for the duration of the contract.
- B. If this bid is accepted by Owner within the time period stated above, we will:

1. Execute the Agreement within seven days of receipt of Notice of Award.
 2. Furnish the required bonds within seven days of receipt of Notice of Award.
 3. Commence work within seven days after written Notice to Proceed of this bid.
- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If this Bid is accepted, we will:
- B. Districts Desired Final Completion of the Work by Building A - Wednesday, October 4, 2023; Building B - Wednesday, September 6, 2023.. If this date is not achievable, please insert your timeline below.
- C. Contractor's Proposed Completion the Work by _____
(Bidder to enter completion date or time frame.)

1.08 CHANGES TO THE WORK

- A. When Architect establishes that the method of valuation for Changes in the Work will be net cost plus a percentage fee in accordance with General Conditions, our percentage fee will be:
1. 10 percent overhead and profit on the net cost of our own Work;
 2. 10 percent on the cost of work done by any Subcontractor.
- B. On work deleted from the Contract, our credit to Owner shall be Architect-approved net cost plus 10 percent overhead and profit.

1.09 ADDENDA

- A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
1. Addendum # _____ Dated _____.
 2. Addendum # _____ Dated _____.
 3. Addendum # _____ Dated _____.
 4. Addendum # _____ Dated _____.

1.10 BID FORM SUPPLEMENTS

- A. The following information is included with Bid submission:
1. Unit Prices: 9
 2. Alternates: 2.
- B. The following Supplements are attached to this Bid Form and are considered an integral part of this Bid Form:
1. Document 00 4322 - Unit Prices Form: Include a listing of unit prices specifically requested by Contract Documents.
 2. Document 00 4323 - Alternates Form: Include the cost variations to the Bid Sum applicable to the Work as described in Section 01 2300 Alternates.

1.11 BID FORM SIGNATURE(S)

- A. The Corporate Seal of
- B. _____
- C. (Bidder - print the full name of your firm)
- D. was hereunto affixed in the presence of:
- E. _____
- F. (Authorized signing officer, Title)

END OF SECTION

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CONTRACTOR QUALIFICATIONS FORM

1. Number of years your organization has been in business as a General Contractor/Construction Manager.

2. Number of years your organization has been business under its present name.

3. List other or former names under which your organization has operated.

4. Minimum Experience – at least three (3) comparable projects of similar type, scope, size and cost, with customer reference.

REFERENCE #1

Project Name: _____
Location: _____
Cost: _____
Year: _____
Contact Name: _____ Title: _____
Phone: _____ Email: _____

REFERENCE #2

Project Name: _____
Location: _____
Cost: _____
Year: _____
Contact Name: _____ Title: _____
Phone: _____ Email: _____

REFERENCE #3

Project Name: _____
Location: _____
Cost: _____
Year: _____
Contact Name: _____ Title: _____
Phone: _____ Email: _____

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**SECTION 00 4322
UNIT PRICES FORM**

PARTICULARS

1.01 THE FOLLOWING IS THE LIST OF UNIT PRICES REFERENCED IN THE BID SUBMITTED BY:

1.02 (BIDDER) _____

1.03 TO (OWNER): CRESTWOOD SCHOOL DISTRICT

1.04 DATED _____ AND WHICH IS AN INTEGRAL PART OF THE BID FORM.

**1.05 THE FOLLOWING ARE UNIT PRICES FOR SPECIFIC PORTIONS OF THE WORK AS LISTED,
AND ARE APPLICABLE TO AUTHORIZED VARIATIONS FROM THE CONTRACT
DOCUMENTS.**

UNIT PRICE LIST

2.01 UNIT PRICE # 1: \$ _____

2.02 UNIT PRICE # 2: \$ _____

2.03 UNIT PRICE # 3: \$ _____

2.04 UNIT PRICE # 4: \$ _____

2.05 UNIT PRICE # 5: \$ _____

2.06 UNIT PRICE # 6: \$ _____

2.07 UNIT PRICE # 7: \$ _____

2.08 UNIT PRICE # 8: \$ _____

2.09 UNIT PRICE # 9: \$ _____

END OF SECTION

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**SECTION 00 4323
ALTERNATES FORM**

PARTICULARS

1.01 THE FOLLOWING IS THE LIST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY:

1.02 (BIDDER) _____

1.03 TO (OWNER): CRESTWOOD SCHOOL DISTRICT

1.04 DATED _____ AND WHICH IS AN INTEGRAL PART OF THE BID FORM.

ALTERNATES LIST

2.01 THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT AS REQUIRED FOR EACH BID PACK. CONTRACTOR TO PROVIDE ONE (1) ALTERNATES FORM PER BID PACK SUBMITTED.

2.02 REFER TO SECTION 01 2300-ALTERNATES FOR EACH ALTERNATE DESCRIPTION.

ALTERNATE # 1: ADD / (DEDUCT) \$ _____

ALTERNATE # 2: ADD / (DEDUCT) \$ _____

END OF SECTION

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SUBSTITUTION REQUEST

(During the Bidding/Negotiating Stage)

Project: _____ Substitution Request Number: _____

 To: _____ From: _____
 _____ Date: _____
 _____ A/E Project Number: _____
 Re: _____ Contract For: _____

Specification Title: _____ Description: _____
 Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: _____
 Manufacturer: _____ Address: _____ Phone: _____
 Trade Name: _____ Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.
- Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.

Submitted by: _____
 Signed by: _____
 Firm: _____
 Address: _____

 Telephone: _____

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
 Substitution rejected - Use specified materials.
 Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

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SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase)

Project: _____ Substitution Request Number: _____

 From: _____
 To: _____ Date: _____

 A/E Project Number: _____
 Re: _____ Contract For: _____

Specification Title: _____ Description: _____
 Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: _____
 Manufacturer: _____ Address: _____ Phone: _____
 Trade Name: _____ Model No.: _____
 Installer: _____ Address: _____ Phone: _____

History: New product 1-4 years old 5-10 years old More than 10 years old

Differences between proposed substitution and specified product: _____

Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____
 Address: _____ Owner: _____
 _____ Date Installed: _____

Proposed substitution affects other parts of Work: No Yes; explain _____

Savings to Owner for accepting substitution: _____ (\$ _____).

Proposed substitution changes Contract Time: No Yes [Add] [Deduct] _____ days.

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____

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SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
 - Same warranty will be furnished for proposed substitution as for specified product.
 - Same maintenance service and source of replacement parts, as applicable, is available.
 - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
 - Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
 - Proposed substitution does not affect dimensions and functional clearances.
 - Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
 - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
-

Submitted by: _____

Signed by: _____

Firm: _____

Address: _____

Telephone: _____

Attachments:

A/E's REVIEW AND RECOMMENDATION

- Approve Substitution - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- Approve Substitution as noted - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures.
- Reject Substitution - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

OWNER'S REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. Prepare Change Order.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 33 00 Submittal Procedures. Prepare Change Order.
- Substitution rejected - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: Contractor Subcontractor Supplier Manufacturer A/E

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1. Remove or blend tool and die marks and stretch lines into finish.
 2. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Concealed Surfaces: No. 2B finish (bright, cold-rolled, unpolished finish).
- C. Exposed Surfaces: No. 4 finish (bright, directional polish).
- D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- E. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipment.

2.6 MILLWORK

- A. Core materials shall be 3/4" exterior or marine grade plywood unless otherwise specified.
- B. Particle board or other pressed wood products are not acceptable.
- C. Plastic laminate shall be by Formica, Wilson Art, or approved equal, applied according to manufacturer's recommendations with a urea-based adhesive. Rubber based adhesives are not acceptable. Plastic laminate shall be NSF listed.

2.7 PRESENTATION OF BIDS

- A. It is intended that the contract be awarded as a whole to the successful bidder. An itemized breakdown is required so that the Owner may, at his option, delete the item in its entirety, supply any part or portion thereof, or increase the quantity, making a suitable adjustment in the contract price based on the breakdown. Each individual price shall include the material cost plus the labor cost associated with that item.
- B. Fill out the following Itemized Price List.

Item	Qty.	Description	Price
1	1	Serving Counter "A"	.....
2	4	Undercounter Mobile Heated Drawers	.....
3	Lot	Wall Shelves "A"	.....
4	1	Microwave Oven (Existing)	XXXXXXXXXXXXXXXXXXXX
5	1	Hot Beverage Powder Mix Dispenser	.....
6	1	Three Compartment Sink	.....
7	Lot	Wall Shelves "B"	.....
8	1	Hand Sink	.....
9	1	Serving Counter "B"	.....
10	Lot	Wall Shelves "C"	.....
11	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX

12	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
13	1	Speed Oven (Future)	XXXXXXXXXXXXXXXXXXXX
14	2	Open Shelving	.....
15	1	Mobile Work Table "A"	.....
16	2	Mobile Work Table "B"	.....
17	4	Mobile Work Table "C"	.....
18	2	Cold Beverage Display "A"	.....
19	2	Cold Beverage Display "B" (Existing)	XXXXXXXXXXXXXXXXXXXX
20	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
21	-	Unassigned Number	XXXXXXXXXXXXXXXXXXXX
22	1	Mobile Hot Holding Cabinet	.....
23	2	Secure Refrigerator	.....
24	1	Secure Freezer	.....
25	1	Hot Dog Roller Grill	.....
26	1	Nacho Bin	.....
27	1	Nacho Cheese Pump	.....
28	1	Pretzel Display (Existing)	XXXXXXXXXXXXXXXXXXXX
29	1	Popcorn Machine (Existing)	XXXXXXXXXXXXXXXXXXXX
30	2	Secure Shelving Unit	.....

Subtotal

Any extra charges (describe)

.....

TOTAL COST (excluding taxes)

Taxable amount

.....

APPLICATION FOR SUBSTITUTION OF SPECIFIED FOOD SERVICE EQUIPMENT

This form is to be submitted in support of each suggestion or request to substitute a manufacturer and/or model number that is not included as the only-named, first-named, or additionally-named product in the Division 11400 (Food Service Equipment) specifications. Refer to Section 1.5.E in those specifications for additional information.

The decision to accept an unnamed alternate will be based exclusively on the information provided hereon and the Owner's or his designee's research and verifications of the claims, which may include sharing the information with the manufacturer(s) of the originally specified equipment. Accordingly, any proprietary information regarding the proposed substitution should be so identified and submitted as an addendum to this form.

By submitting this application the Contractor guarantees that the information is correct and accepts total responsibility for any and all additional costs that may directly or indirectly result from acceptance of the proposed substitution. It is in the interest of the Contractor to declare on this form ALL benefits that will accrue to the Owner, as additional information provided after this form is submitted will not be considered. Include the proposed manufacturer's catalog information.

The original specifications describe the minimum standards of the equipment – proposed substitutions that do not exceed this minimum standard or otherwise benefit the Owner will not be considered except in the case of an originally specified item that is no longer available. The Owner or his designee is the sole authority in regard to identifying specific features, capacities, and so on that are operationally critical (for instance, pan capacity). Acceptance of a proposed substitution does not in any way relieve the Contractor of responsibility for any and all direct or indirect costs associated with the substitution.

1. Date submitted _____
2. Item Number _____ Description _____ Quantity _____
3. Specified Manufacturer _____ Specified Model Number _____
4. Proposed Manufacturer _____ Proposed Model Number _____
5. Does the proposed equipment incorporate all features and options expressed or implied by the specifications, including features and options that are provided as standard by the specified item number?
 Yes No (describe – attach additional sheets if necessary) _____

6. Compare the utilities of the specified equipment with the proposed equipment:

Specified: Hot water _____ Cold water _____ Electrical (w/ amps) _____
Gas (w/ BTUH) _____ Exhaust/supply volume w/ duct connections _____

Proposed: Hot water _____ Cold water _____ Electrical (w/ amps) _____
Gas (w/ BTUH) _____ Exhaust/supply volume w/ duct connections _____

7. Compare the dimensions of the specified equipment with the proposed equipment:

Specified: Left to right _____ Front to rear _____ Height _____

Proposed: Left to right _____ Front to rear _____ Height _____

8. Does the proposed equipment require any changes to the work to be provided by other trades?

No Yes (describe – attach additional sheets if necessary) _____

9. Does the proposed equipment require any changes or create any issues in regard to adjacent or associated equipment (for instance: door swing interference; stretch/shrink of established dimensions; service access clearances; air circulation space)?

No Yes (describe – attach additional sheets if necessary) _____

10. What benefits will the owner realize as a result of this substitution being approved (for instance: capital expense; energy savings; future flexibility; warranty terms; shipping time)? Provide specific information (how much less energy will be necessary? How much capital expense will be saved? How much longer is the warranty?).

There are no benefits to the Owner

The following will benefit the Owner (attach additional sheets if necessary): _____

11. What are the actual or potential disadvantages to the substitution being approved?

There are no actual or potential disadvantages

The following are actual or potential disadvantages (attach additional sheets if necessary): _____

12. Are there any other considerations that should be evaluated? _____

13. Signature of Contractor's representative _____

**SECTION 27 0143
 COMMUNICATIONS UNIT PRICE SHEET**

NOTE: Unit costs are to be included with bidder's original proposal for the Work to be done per Project Specifications. All unit costs shall include installation labor unless otherwise noted.

Project Name: _____

Name of Bidder: _____

Unit prices are valid for 365 days. Date Negotiated: _____

UP-#	Item or Material	Unit Price
UP-1	Provide one (1) Category 6 data drop including cable, jacks at both ends, faceplate, terminations, testing, and documentation, as specified (200 foot average)	\$
UP-2	Provide two (2) Category 6 data drops including cable, jacks at both ends, faceplate, terminations, testing, and documentation, as specified (200 foot average)	\$
UP-3	Provide one (1) 48-port Category 6 modular patch panel, unloaded, as specified	\$
UP-4	Provide one (1) Single-mode fiber optic patch cable, as specified	\$
UP-5	Provide one (1) Category 6 six inch (6") 28 AWG patch cable, as specified	\$
UP-6	Provide one (1) Category 6 one foot (1') 28 AWG patch cable as specified	\$
UP-7	Provide one (1) Category 6 three foot (3') 23 AWG patch cable, as specified	\$
UP-8	Provide one (1) Category 6 five foot (5') 23 AWG patch cable, as specified	\$
UP-9	Provide one (1) Category 6 ten foot (10') 23 AWG patch cable, as specified	\$
UP-10	Provide one (1) one inch (1") conduit sleeve through CMU wall including bushings, firestop both sides and around the perimeter of the conduit	\$
UP-11	Provide one (1) two inch (2") conduit sleeve through CMU wall including bushings, firestop both sides and around the perimeter of the conduit	\$
UP-12	Provide per foot cost for 12-strand single-mode cable, installed, but not terminated or tested. This would be used if the length of the fiber cable varies due to the route.	\$
UP-13	Cabling Technician (Hourly Rate)	\$
UP-14	Cabling Technician (Overtime Hourly Rate)	\$
UP-15	Cabling Technician (Holiday Hourly Rate)	\$

END OF SECTION