

Addendum No. 2
October 1, 2021

Project: **Harrisburg Middle School No. 3**
Harrisburg, South Dakota
Architecture Incorporated Project #2903

Architect: Architecture Incorporated

Letting: Thursday, October 7, 2021
2:00 PM

Location: Community Center Conference Room at the Harrisburg School District Administration Offices, 200 Willow Street, Harrisburg, South Dakota 57032. (Enter from southeast community center entrance).

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) GENERAL CLARIFICATIONS:

- a) Disregard all references to steel stairs, handrails and guardrails serving mechanical penthouse and/or storage areas being painted. Standard shop-primed finish shall be deemed acceptable. The Contractor shall touch-up and/or re-prime damaged primer after installation as specified. (typ)
- b) Furnish and install a total of eight (8) electrical bollards; reference SD23, dated 10-1-21, attached to the end of this addendum for details.
 - i) Provide two (2) electrical bollards in each of the following spaces:
 - (1) Media B122.
 - (2) 6th Common C110.
 - (3) 7th Commons D103.
 - (4) 8th Commons E103.
 - ii) Exact locations to be identified at later date.
- c) Furnish and install sign posts based on *Telespar Traffic Products - Square-Fit (2" x 2")* perforated, telescoping galvanized-steel tubing sign post system (w/ separate base) in lieu of the 1" x 2" (painted) steel tubing indicated on the drawings.
 - i) Sign posts installed in landscape areas shall not require concrete footings.

2) TABLE OF CONTENTS

- a) Add SECTION 012100 - *ALLOWANCES*, pages [1 – 4], attached to this addendum.

3) SECTION 011000 - SUMMARY

- a) Article 1.8.A.13. Installation of Theatre theatrical lighting, dimming control system, rigging and drapes. *Add:* Work by Owner includes low voltage control equipment and cabling.

4) SECTION 012100 - ALLOWANCES

- a) Reference attached specification Section 012100 – *Allowances* [4 pages] for roofing materials (*only*) allowance.
- i) The Contractor shall include in his Base Bid an allowance of \$890,000 for roofing materials only.
- ii) The Contractor shall include in his Alternate #1 Bid an allowance of \$19,000 for roofing materials only.

5) SECTION 081113 – HOLLOW METAL DOORS AND FRAMES

- a) Omit Article 2.4.B.2. in its entirety. Ballistic resistance rating shall not be required for hollow metal doors and frames, including tornado-resistant HM door & frame assemblies.
- b) Omit Article 2.11.B.1. in its entirety; steel-stiffened door cores shall not be required for hollow metal doors and frames, including tornado-resistant HM door & frame assemblies.
- c) Omit *Wind and Impact-Resistant Door Hardware* Group #3 (and door A112-3) in its entirety; this door does not exist therefore this hardware group is not required.
- d) Per Addendum #2, the *Wind and Impact-Resistant Door Hardware Schedule* has been updated to reflect changes to door numbers; replace Article 3.5 (i.e. - *Wind- and Impact-Resistant Door Hardware Schedule*) with the following:

3.5 WIND- AND IMPACT-RESISTANT DOOR HARDWARE SCHEDULE

Group #1 Doors: A112, A114, A123, C103, D100-1, D100-2 & E122

Butt hinges

Concealed multi-point lockset w/ lever trim (classroom security function; 39)

Kick plate (@ A112, A114 & A123 only)

Wall stop (@ A112, C103, D100-1, D100-2 & E122 only)

Door holder (WS40) (@ A114 & A123 only)

Group #2

Doors: A118 & A119

Butt hinges

Concealed multi-point lockset w/ lever trim (office function; 56)

Kick plate

OH stop

6) SECTION 085654 – WIND AND IMPACT-RESISTANT STORM SHELTER WINDOWS

- a) Omit all references to low-e coated, insulated glazing units at interior storm shelter windows; glazing at interior storm shelter windows to be non-insulated. Replace Article 2.2.C.1.a. with the following:

a. Glass Type: Clear, glass-clad polycarbonate [storm shelter] glazing units.

7) SECTION 087100 –DOOR HARDWARE

a) Omit all reference to removable core key cylinders; not required.

i) The Owner will furnish and install SALTO cylinders at all locations, as specified.

b) Replace Article 2.16.B.3. with the following:

3. Door Bottoms (Sweeps): Apply to bottom of door, forming seal with threshold when door is closed. Provide National Guard 202NA or equal.

8) SECTION 116623 – GYMNASIUM EQUIPMENT

a) Disregard all references to bleacher-mounted safety padding and bleacher handrail pocket pads. Safety padding in Gym A108 shall only be required at the east & west ends of the main basketball court; padding shall be wall-mounted.

i) Size: 12'-0" w x 6'-0" h.

9) SECTION 126100 – FIXED AUDIENCE SEATING

a) Omit Article 1.4.B.3. in its entirety. Fixed audience seating units shall not be required to comply with California Technical Bulletin 133 (Full-Scale Fire Test).

b) Add Article 2.1.C. as follows:

C. Fabric: 100% Marquesa Lana continuous filament Olefin complying with the following:

1. Fabric shall have 13 fill picks per inch, 13 warp ends per inch, weighing 16 oz. [454grams] per linear yard including backing.

2. Basis-of-Design: Sherpa-Shire (or Equal) standard colors and patterns.

c) Add Articles 2.2.C.g. and 2.2.C.h. as follows:

g. Aisle Lettering: Manufacturer's standard lexan arm plates.

h. Seat Numbering: Manufacturer's standard lexan seat plates.

d) Replace Article 2.2.D. with the following:

D. Self-Rising Seat Mechanism: Spring actuated, 3/4 fold.

1. Seat shall be semi-cantilevered, self-centering, automatic three-quarter (3/4) fold with over center retract feature, for ease of passage and janitorial access.

2. ***NOTE: 3/4-fold seat actuation shall only be permitted if the total seat depth (in the open position) is 20-inches or less.***

e) Add Article 2.2.G. as follows:

G. ***Seat Mechanism: Seat lifting mechanism shall use lubricated lifting springs to provide whisper quiet fail-safe operation. The seat structure shall rotate on a 3/4" [19mm] spanner bar to assure shaft alignment and eliminate binding due to irregular floor conditions. Seats shall be certified to withstand 350,000 lifting cycles and a 600lb static load without failure.***

f) Omit all references to horizontal pleats at seat back tailoring; not required. Provide fixed (and removable) audience seating units with manufacturer's standard waterfall seat back tailoring.

i) Strike "~~Provide Horizontal Pleat~~" from Articles 2.2.C.c. and 2.3.C.

10) SECTION 123216 – MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK

a) CLARIFICATION: Unless specifically indicated otherwise, where brackets & shelving are shown provide plastic laminate shelving with 3MM edging on the front (only) of each shelf.

b) The countertop-mounted demonstration mirror assembly shown in FCS Lab B131 shall be furnished and installed by the casework supplier.

i) Countertop-mounted demonstration mirror shall feature adjustable tilting glass mirror, aluminum frame with safety backing, 54"H x 1-5/8" dia. 16ga stainless steel tube uprights, and be designed for use with 60" wide instructor carts; based on John Boos DM-60-W or equal. Size as indicated on drawings.

11) SECTION 123623 – PLASTIC-LAMINATE COUNTERTOPS

a) CLARIFICATION: Unless specifically indicated otherwise per applicable countertop sections (on the drawings), the countertop fabricator shall assume and utilize postform style countertop edges.

i) The countertop fabricator shall utilize 3MM edges where specifically indicated per applicable countertop sections such as 11/7.20, 2, 3, 6, 7 & 15/7.21.

(1) Unless noted otherwise, 3MM countertops are to be utilized at locations where countertops are used as working desk, such as a Reception desk or Library desk.

12) SHEET 2.30 – OVERALL SITE PLAN

a) Omit a total of sixteen (16) 4" PVC lawn irrigation irrigation sleeves. Reference Addendum #2 notes for drawings Sheet 2.13, 2.32 & 2.34 for specific information / details.

13) SHEET 2.31 – SITE PLAN – AREA A

a) Omit all ten (10) 4" PVC lawn irrigation irrigation sleeves that serve the small parking lot islands in the main parking lot.

i) The sleeve serving the large island at the NW corner of the main parking lot shall remain.

- b) Omit the two (2) 4" PVC lawn irrigation sleeves that serve the island in the middle of the bus loop.
- c) The 4" *LANDSCAPE ROCK OVER WEED BARRIER* shown in the parking lot islands shall be furnished and installed by the Owner.
- d) Asphalt paving: Change the heavy-duty asphalt paving to 5" of asphalt over 4" of base; change the light-duty asphalt paving to 4" of asphalt over 4" of base; as noted on Sheet 2.40.

14) SHEET 2.32 – SITE PLAN – AREA B

- a) Omit all three (3) 4" PVC lawn irrigation sleeves that serve the small landscaped areas between the building and sidewalks near doors C130/C131, D120/D122 & E125/E128.
- b) The 4" *LANDSCAPE ROCK OVER WEED BARRIER* shown in the parking lot islands shall be furnished and installed by the Owner.
- c) Asphalt paving: Change the heavy-duty asphalt paving to 5" of asphalt over 4" of base; change the light-duty asphalt paving to 4" of asphalt over 4" of base; as noted on Sheet 2.40.

15) SHEET 2.33 – SITE PLAN – AREA C

- a) Asphalt paving: Change the heavy-duty asphalt paving to 5" of asphalt over 4" of base; change the light-duty asphalt paving to 4" of asphalt over 4" of base; as noted on Sheet 2.40.

16) SHEET 2.34 – SITE PLAN – AREA D

- a) Omit the 4" PVC lawn irrigation sleeve that serves the parking lot island in the staff parking lot.
- b) Modify the location / orientation of the dumpster enclosure as indicated per supplemental drawing SD25, dated 10-1-21, which is attached to Addendum #2.
- c) The 4" *LANDSCAPE ROCK OVER WEED BARRIER* shown in the parking lot islands shall be furnished and installed by the Owner.
- d) Asphalt paving: Change the heavy-duty asphalt paving to 5" of asphalt over 4" of base; change the light-duty asphalt paving to 4" of asphalt over 4" of base; as noted on Sheet 2.40.

17) SHEET 2.40 – SITE / SURFACING PLAN

- a) Furnish and install eight (8) "No Parking Fire Lane" signs throughout the site as shown on supplemental civil drawing SCD-1, dated 10-1-21, which is attached to Addendum #2.

18) SHEET 2.58 – SITE GRADING PLAN (ADA RAMPS)

- a) Furnish and install two (2) additional ADA ramps, within street ROW, as indicated on supplemental civil drawings SCD-2 & SCD-3, both dated 10-1-21, attached to Addendum #2.

19) SHEET 2.59 – SITE GRADING PLAN (ADA RAMPS)

- a) Furnish and install two (2) additional ADA ramps, within street ROW, as indicated on supplemental civil drawings SCD-2 & SCD-3, both dated 10-1-21, attached to Addendum #2.

20) SHEET 2.60 – SITE UTILITY PLAN

- a) Reference supplemental civil drawing SCD-2, dated 10-1-21, attached to the end of Addendum #2 for the following modifications:
 - i) W10 water main piping upsized to 8” in lieu of 6”.
 - ii) A fire hydrant and 8” x 6” MJ reducer have been added to the W10 water main layout.

21) SHEET 3.21 – LOW ROOF/ PENTHOUSE FLOOR/ CATWALK PLAN

- a) Hollow core floor planks above rooms A126, A127 and A128 shall have 2” of concrete topping in lieu of 4” topping indicated by plan note #1.
- b) Reference east exterior door of Hall A134 tagged as Door A134 on sheet 4.11. Revise canopy framing above Door A134 for beam lengths/spans that match geometry shown on architectural sheet 6.10. See architectural detail 5/5.25 for W8X21 TOS. Provide “L2” loose brick lintel above window head to support three courses of brick shown in detail 5/5.25.

22) SHEET 3.32 – HIGH ROOF FRAMING – AREA B

- a) Reference the W16x26’s at deck bearing elevation along gridlines A4, AA, B2, and BG. Steel fabricator shall provide 4” diameter holes centered in W16 beam webs at ¼ points along the span. Do not provide holes at the ends. Example: The 10’ long W16x26’s would have three total holes at 2’-6” on-center.

23) SHEET 4.11 – FLOOR PLAN – AREA A

- a) The Contractor shall furnish and install 18” x 18” x 60” metal athletic lockers in Boys Lockers A114 at interior elevations 2 & 4 / 4.53. Disregard all references to 12” x 12” x 60” lockers at these locations (as indicated per Addendum #1).
 - i) Provide [**forty (40)**] 12” x 12” x 60” lockers along the west wall of Boys Locker A114; reference revised interior elevation 3 / 4.53.
 - ii) Reference supplemental drawing SD-19, dated 10-1-21, attached to the end of Addendum #2 for additional information.
- b) CLARIFICATION: The Contractor shall furnish and install 18” x 18” x 60” metal athletic lockers at all locker islands in Boys Lockers A114.
- c) CLARIFICATION: The Contractor shall furnish and install 12” x 12” x 60” metal athletic lockers at all locker islands in Girls Lockers A123.
- d) CLARIFICATION: Unless specifically indicated otherwise, all cast-in-place concrete bench seats in front of P.E. and/or Athletic lockers in Boys Lockers A114 and Girls Lockers A123 shall be 14” deep.
 - i) The Contractor shall provide a 14” deep cast-in-place concrete bench seat in front of the athletic lockers located along the north wall of Boys Lockers A114. Reference revised drawing Sheet 4.11 attached to Addendum #2 for additional information.

- ii) The Contractor shall provide a 20" deep cast-in-place concrete bench seat in front of the athletic lockers located along the south wall of Boys Lockers A114. Reference revised drawing Sheet 4.11 attached to Addendum #2 for additional information.
- iii) The Contractor shall provide a 20" deep cast-in-place concrete bench seat in front of the lockers located along the south wall of Girls Lockers A123.

24) SHEET 4.12 – FLOOR PLAN – AREA B

- a) Omit the sand / oil separator originally shown in Receiving B147. Provide floor drain with sediment bucket as specified per Addendum #2 **Mechanical Items**.
- b) Modify the floor plan layout at the in-school suspension (I.S.S.) rooms as indicated per supplemental drawing SD-20, dated 10-1-21, attached to the end of this addendum and as described below:
 - i) Adjust the size of each I.S.S. room to be 3'-8" wide x 4'-0" deep as indicated.
 - ii) Reverse the door swing at all I.S.S. rooms as shown; all doors shall swing out of I.S.S. rooms.
 - iii) Add new I.S.S. room B116E as indicated.
 - (1) Room finishes in B116E shall match those specified for rooms B116A – B116D.
 - (2) Door and hardware at new door B116E shall match that specified for rooms B116A – B116D.
- c) Reference supplemental drawing SD-21, dated 10-1-21, attached to the end of Addendum #2 for location of Owner-provided ice machine in Storage A106.
 - i) Provide mechanical & electrical services to facilitate Owner-provided ice machine as indicated per mechanical & electrical items specified elsewhere in Addendum #2.
- d) Reference supplemental drawing SD24, dated 10-1-21, attached to the end of Addendum #2 for section of full height cmu wall for plumbing in Kitchen B154.

25) SHEET 4.13 – FLOOR PLAN – AREA C

- a) The short CMU wing walls extending east from grid intersections W/8 & Y/8 shall be changed to 24" in length (in lieu of 2'-8").
 - i) The T-1 to CPT-2 transition shall align with the east end of these wing walls. Disregard the 5'-0" dimension shown on Sheet 4.22.
 - ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for additional information.

26) SHEET 4.14 – FLOOR PLAN – AREA D

- a) The short CMU wing walls extending south from grid intersections EE/22 & EE/28 shall be changed to 24" in length (in lieu of 1'-8").

- i) The T-1 to CPT-2 transition shall align with the south end of these wing walls. Disregard the 5'-0" dimension shown on Sheet 4.23.
- ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for similar condition.

27) SHEET 4.15 – FLOOR PLAN – AREA E

- a) The short CMU wing walls extending west from grid intersections W/37 & Y/37 shall be changed to 24" in length (in lieu of 2'-6").
 - i) The T-1 to CPT-2 transition shall align with the west end of these wing walls. Disregard the 5'-0" dimension shown on Sheet 4.24.
 - ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for similar condition.

28) SHEET 4.20 – FINISH PLAN – AREA A

- a) The Contractor shall furnish and install 18" x 18" x 60" metal athletic lockers in Boys Lockers A114 at interior elevations 2 & 4 / 4.53. Disregard all references to 12" x 12" x 60" lockers at these locations (as indicated per Addendum #1).
 - i) Provide [**forty (40)**] 12" x 12" x 60" lockers along the west wall of Boys Locker A114; reference revised interior elevation 3 / 4.53.
 - ii) Reference supplemental drawing SD-19, dated 10-1-21, attached to the end of Addendum #2 for additional information.
- b) CLARIFICATION: The Contractor shall furnish and install 18" x 18" x 60" metal athletic lockers at all locker islands in Boys Lockers A114.
- c) CLARIFICATION: The Contractor shall furnish and install 12" x 12" x 60" metal athletic lockers at all locker islands in Girls Lockers A123.
- d) CLARIFICATION: Unless specifically indicated otherwise, all cast-in-place concrete bench seats in front of P.E. and/or Athletic lockers in Boys Lockers A114 and Girls Lockers A123 shall be 14" deep.
 - i) The Contractor shall provide a 14" deep cast-in-place concrete bench seat in front of the athletic lockers located along the north wall of Boys Lockers A114. Reference revised drawing Sheet 4.11 attached to Addendum #2 for additional information.
 - ii) The Contractor shall provide a 20" deep cast-in-place concrete bench seat in front of the athletic lockers located along the south wall of Boys Lockers A114. Reference revised drawing Sheet 4.11 attached to Addendum #2 for additional information.
 - iii) The Contractor shall provide a 20" deep cast-in-place concrete bench seat in front of the lockers located along the south wall of Girls Lockers A123.
- e) CLARIFICATION: Room Finish Schedule Note a. is shown for Auditorium A102. This note in the Area A Room Finish Schedule is specifically meant to call attention to the resilient stair nosing that is to be installed along the carpet edge that occurs at the top of the (lower seating

area) CMU walls as indicated per section detail 7/5.41. Vinyl treads and risers are not required in Auditorium A102.

- f) Furnish and install carpet base (CPT) in room CTRL. A103; disregard all reference to resilient base (RB-1).
- g) Disregard PNT-1 ceiling finish in Stair A110; no ceiling finish required; ceiling finish to be exposed structure.

29) SHEET 4.22 – FINISH PLAN – AREA C

- a) The T-1 to CPT-2 flooring transition shall align with the west end of the (adjusted) CMU wing walls. Disregard the 5'-0" dimension shown on Sheet 4.22.
 - i) The short CMU wing walls extending east from grid intersections W/8 & Y/8 have been changed to 24" in length (in lieu of 2'-8"); reference Sheet 4.13.
 - ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for additional information.
- b) Reference (partial) Area C Finish Plan on supplemental drawing SD-16, dated 10-1-21, attached to the end of Addendum #2 for tile flooring modifications and carpet grain direction clarifications.

30) SHEET 4.23 – FINISH PLAN – AREA D

- a) The T-1 to CPT-2 flooring transition shall align with the south end of the (adjusted) CMU wing walls. Disregard the 5'-0" dimension shown on Sheet 4.23.
 - i) The short CMU wing walls extending south from grid intersections EE/22 & EE/28 have been changed to 24" in length (in lieu of 1'-8"); reference Sheet 4.14.
 - ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for similar condition.
- b) Reference (partial) Area D Finish Plan on supplemental drawing SD-17, dated 10-1-21, attached to the end of Addendum #2 for tile flooring modifications and carpet grain direction clarifications.

31) SHEET 4.24 – FINISH PLAN – AREA E

- a) The T-1 to CPT-2 flooring transition shall align with the west end of the (adjusted) CMU wing walls. Disregard the 5'-0" dimension shown on Sheet 4.24.
 - i) The short CMU wing walls extending west from grid intersections W/37 & Y/37 have been changed to 24" in length (in lieu of 2'-8"); reference Sheet 4.15.
 - ii) Reference supplemental drawing SD-22, dated 10-1-21, attached to the end of Addendum #2 for similar condition.
- b) Reference (partial) Area E Finish Plan on supplemental drawing SD-18, dated 10-1-21, attached to the end of Addendum #2 for tile flooring modifications and carpet grain direction clarifications.

32) SHEET 4.30 – DOOR SCHEDULE

- a) Change door A102-6 to a painted HM door (in lieu of stained SCWOOD).
- b) Single (3'-8" x 7'-0") stained SCWOOD door A107 shall be changed to a 6'-0" x 7'-0" PR of HM doors w/ Hardware Group #3.
- c) Change PR door A111 to a PR of painted HM doors (in lieu of stained SCWOOD).
- d) Change door B154D from 3'-0" wide to 3'-8" wide.
- e) Change door B155-1 from 3'-8" wide to 3'-0" wide.

33) SHEET 4.53 – INTERIOR ELEVATIONS

- a) The Contractor shall furnish and install 18" x 18" x 60" metal athletic lockers in Boys Lockers A114 at interior elevations 2 & 4 / 4.53. Disregard all references to 12" x 12" x 60" lockers at these locations (as indicated per Addendum #1).
 - i) Provide forty (40) 12" x 12" x 60" lockers along the west wall of Boys Locker A114; see revised interior elevation 3 / 4.53.
 - ii) Reference supplemental architectural drawing SD-19, dated 10-1-21, attached to the end of Addendum #2 for additional information.

34) SHEET 5.14 – CURTAIN WALL ELEVATIONS

- a) Elevations 4/5.14 and 5/5.14: Change from Curtain Wall Framing to Storefront Framing for these elevations.

35) SHEET 5.25 – RAMP & SECTIONS DETAILS

- a) Omit Mud Pit detail 3 / 5.25 in its entirety; not applicable.
 - i) The sand / oil separator originally shown in Receiving B147 has been omitted; provide floor drain with sediment bucket as specified per Addendum #2 **Mechanical Items**.

36) SHEET 6.11 – REFLECTED CEILING PLAN – AREA B

- a) Omit the gypsum board soffit originally shown in Receptionist B109.
 - i) Reference modified reflected ceiling plan on supplemental drawing SD-15, dated 10-1-21, attached to the end of Addendum #2 for additional information.

37) SHEET 7.20 – CASEWORK SECTIONS

- a) Disregard all references to epoxy resin countertops at science rooms, as shown per casework section 19/7.20.
 - i) There are no epoxy resin countertops associated with this Project.

- b) Disregard all references to locks on all wardrobe unit casework, as shown per casework section 8/7.20.

- i) Locks on wardrobe units are not required.

38) SHEET 7.21 – CASEWORK SECTIONS

- a) The countertop identified in section 8/7.21 shall be plastic laminate with 3MM edge; disregard all references to solid surface material countertop.

MECHANICAL ITEMS:

SPECIFICATION ITEMS:

1) SPECIFICATION SECTION 220100 – GENERAL PROVISIONS - SUBSECTION 1.27 – PIPE AND PIPE FITTINGS:

- a) Delete all paragraphs pertaining to “Acid Waste and Vent Piping shall be:”. There will be no acid waste or vent piping on the project.

2) SPECIFICATION SECTION 220600 – HEATING - SUBSECTION 1.14 – BOILER/BURNER/STACK ECONOMIZER PACKAGE:

- a) Stack Economizer: Revise basis of design model number from “HEATSPONGE-RAINMAKER-DUAL-D3-T2” to “HEATSPONGE-RAINMAKER-SILVER-D3-T2”.

DRAWING ITEMS:

3) DRAWING SHEET 8.10 – LEGENDS & DETAILS

- a) Delete DOUBLE CATCH BASIN DETAIL. Refer to Revised Drawing Sheet, dated 10-1-21.

4) DRAWING SHEET 8.20 – FOOTING & FOUNDATION PLAN – AREA A – PLMB & HTG

- a) Revise location of FD/FSK in “Stor A106”, including new waste and vent pipe routing. Refer to Revised Drawing Sheet, dated 10-1-21.

5) DRAWING SHEET 8.21 – FOOTING & FOUNDATION PLAN – AREA B – PLMB & HTG

- a) Revise location and routing of domestic water service to the building. Refer to Revised Drawing Sheet, dated 10-1-21.
- b) Revise location of FSK for RPZ drainage. Refer to Revised Drawing Sheet, dated 10-1-21.
- c) Provide FD with sediment bucket in lieu of sand-oil interceptor, including revisions to all FSK/FD waste and vent pipe routing for fixtures in “Receiving B147”. Eliminate all extra venting, cleanouts, etc. corresponding to the eliminated sand-oil interceptor. Refer to Revised Drawing Sheet, dated 10-1-21.

6) DRAWING SHEET 8.22 – FOOTING & FOUNDATION PLAN – AREA C – PLMB & HTG

- a) Revise all acid waste/vent piping to regular waste/vent piping. Refer to Revised Drawing

Sheet, dated 10-1-21.

- 7) DRAWING SHEET 8.23 – FOOTING & FOUNDATION PLAN – AREA D – PLMB & HTG
 - a) Revise all acid waste/vent piping to regular waste/vent piping. Refer to Revised Drawing Sheet, dated 10-1-21.
- 8) DRAWING SHEET 8.24 – FOOTING & FOUNDATION PLAN – AREA E – PLMB & HTG
 - a) Revise all acid waste/vent piping to regular waste/vent piping. Refer to Revised Drawing Sheet, dated 10-1-21.
- 9) DRAWING SHEET 8.25 – FLOOR PLAN – AREA A – PLUMBING & HEATING
 - a) Revise ice maker layout in “Stor A106”. Provide shut-off valve and surface mount CW piping drop for connection to owner-provided ice maker in lieu of UB-1, including updated verbiage in Keynote 26. Revise FD to FSK with ½ grate. Revise location of CW drop and FSK. Revise location of vent riser for FSK, including updated verbiage in Keynote 40. Refer to Revised Drawing Sheet, dated 10-1-21.
- 10) DRAWING SHEET 8.26 – FLOOR PLAN – AREA B – PLUMBING & HEATING
 - a) Add note to jog/stack plumbing mains around electrical panel location in “Stor B130”. Refer to Revised Drawing Sheet, dated 10-1-21.
 - b) Revise location of FP-B127. Refer to Revised Drawing Sheet, dated 10-1-21.
 - c) Add vent for FD near washing machine. Refer to Revised Drawing Sheet, dated 10-1-21.
 - d) Revise to (1) 3” domestic water meter in lieu of (2) 2” water meters. Refer to Revised Drawing Sheet, dated 10-1-21.
 - e) Revise location of domestic and irrigation meter/RPZ assemblies. Refer to Revised Drawing Sheet, dated 10-1-21.
 - f) Add HB near meter bank. Refer to Revised Drawing Sheet, dated 10-1-21.
 - g) Provide FD with sediment bucket in lieu of sand-oil interceptor, including revisions to venting, cleanouts, etc. Refer to Revised Drawing Sheet, dated 10-1-21.
- 11) DRAWING SHEET 8.27 – FLOOR PLAN – AREA C – PLUMBING & HEATING
 - a) Revise all acid vent to regular vent piping. Refer to Revised Drawing Sheet, dated 10-1-21.
 - b) Revise locations of VAV-C114 and VAV-C115, including corresponding pipe routing. Refer to Revised Drawing Sheet, dated 10-1-21.
- 12) DRAWING SHEET 8.28 – FLOOR PLAN – AREA D – PLUMBING & HEATING
 - a) Revise all acid vent to regular vent piping. Refer to Revised Drawing Sheet, dated 10-1-21.
- 13) DRAWING SHEET 8.29 – FLOOR PLAN – AREA E – PLUMBING & HEATING

- a) Revise all acid vent to regular vent piping. Refer to Revised Drawing Sheet, dated 10-1-21.
 - b) Revise locations of VAV-E134 and VAV-E135, including corresponding pipe routing. Refer to Revised Drawing Sheet, dated 10-1-21.
- 14) DRAWING SHEET 8.30 – PENTHOUSE PLAN – AREA A – PLMB & HTG
- a) AHU-2, AHU-3, and AHU-4 revised to have the heating coil downstream of the cooling coil. Refer to Revised Drawing Sheet, dated 10-1-21.
- 15) DRAWING SHEET 8.32 – KITCHEN PLANS – AREA B – PLMBING & HEATING
- a) Provide name of heating coil “HC-B154B” on floor plans. Refer to Revised Drawing Sheet, dated 10-1-21.
 - b) Add vent piping from relocated FSK in nearby “Stor B130”. Refer to Revised Drawing Sheet, dated 10-1-21.
 - c) Remove vent piping for eliminated sand-oil interceptor in nearby “Receiving B147”. Refer to Revised Drawing Sheet, dated 10-1-21.
- 16) DRAWING SHEET 8.51 – FLOOR PLAN – AREA B – VENTILATION & A/C
- a) Extend 8/8 duct serving “Office B154B”, transition to 8” dia round duct and duct to new D1 diffuser in “Toilet B154C”. Refer to Revised Drawing Sheet, dated 10-1-21.
 - b) 42/24 supply duct in “Hall B123” to be offset as required to allow FP-B127 to be installed above hallway ceiling. Refer to Revised Drawing Sheet, dated 10-1-21.
 - c) Revise duct layout for VAV-B114 to serve (5) ISS rooms instead of (4) ISS rooms. Revise (4) D1 diffusers to (5) R1 registers installed in ceiling. Refer to Revised Drawing Sheet, dated 10-1-21.
 - d) Revise LVR-1 location to remain above shifted double door location. Refer to Revised Drawing Sheet, dated 10-1-21.
- 17) DRAWING SHEET 8.52 – FLOOR PLAN – AREA C – VENTILATION & A/C
- a) Revise location of VAV-C114 and VAV-C115 to be above ceiling of “Conf C114”. Refer to Revised Drawing Sheet, dated 10-1-21.
- 18) DRAWING SHEET 8.54 – FLOOR PLAN – AREA E – VENTILATION & A/C
- a) Revise location of VAV-E134 and VAV-E135 to be above ceiling of “Conf E135”. Refer to Revised Drawing Sheet, dated 10-1-21.
- 19) DRAWING SHEET 8.56 – SECTIONS – VENTILATION & A/C
- a) AHU-2, AHU-3, and AHU-4 are to have the heating coil and cooling coil switched so that the heating coil is downstream of the cooling coil. Refer to Revised Drawing Sheet, dated 10-1-21.
- 20) DRAWING SHEET 8.60 – SCHEDULES:

- a) PUMP SCHEDULE: Revise P-6A and P-6B MODEL NUMBER from “1510” to “1531”. Refer to Revised Drawing Sheet, dated 10-1-21.
- b) PLUMBING FIXTURE SCHEDULE: Revise MSK MODEL NO. from “TSBC1610” to “TSBC 1612”. Refer to Revised Drawing Sheet, dated 10-1-21.

21) DRAWING SHEET 8.61 – SCHEDULES:

- a) VAV TERMINAL SCHEDULE (AHU-5): Revise the following values for VAV-B114:
 - i) Revise CLG CFM MAX from “240” to “290”.
 - ii) Revise CLG CFM MIN from “80” to “90”.
 - iii) Revise HTG CFM MAX from “80” to “90”.Refer to Revised Drawing Sheet, dated 10-1-21.
- b) KITCHEN HOOD SCHEDULE: Revise KH-2 REMARKS from “1,3,4” to “1,3,4,5,6”. Add the following remarks to the KITCHEN HOOD SCHEDULE:
 - i) 5. PROVIDE REMOTE MOUNTED CONTROL SWITCHES.
 - ii) 6. PROVIDE 8”X168” 430 SS FILLER PANEL TO ACCOMMODATE 24” LENGTH OF FULL HEIGHT WALL. COORDINATE WITH G.C.”

Refer to Revised Drawing Sheet, dated 10-1-21.

- c) AIR COOLED CHILLER SCHEDULE: Add remark 7: “7. IN ICE MAKING MODE, THE CHILLER SHALL BE ABLE TO OPERATE AT 50% AND 100% CAPACITY.” Refer to Revised Drawing Sheet, dated 10-1-21.
- d) AHU SCHEDULE: Revise AHU-2, AHU-3, and AHU-4 REMARKS from “1,2,3,4,5” to “1,2,3,4,5,6”. Add the following remark to AHU SCHEDULE:
 - i) 6. SINGLE ZONE AIR HANDLING UNIT. UNIT TO HAVE HEATING COIL DOWNSTREAM OF COOLING COIL.

Refer to Revised Drawing Sheet, dated 10-1-21.

- e) HEATING COIL SCHEDULE: Revise the following values for HC-B154B:
 - i) Revise CFM from “105” to “180”.
 - ii) Revise MBH from “3.6” to “5.8”.

Refer to Revised Drawing Sheet, dated 10-1-21.

ELECTRICAL ITEMS:

SPECIFICATION ITEMS

1) SECTION 262310 – PACKAGED ENGINE GENERATORS

- a) Article 3.5: Add the following paragraph.

- i) Provide a sign at the service entrance equipment in accordance with articles 700, 701, and/or 702 of the National Electrical Code.

DRAWING ITEMS:

2) DRAWING SHEET 9.20 – FLOOR PLAN AREA “A” - LIGHTING

- a) Room A104: Delete the “NL” designation from the type “A” luminaire east of stair A110. Change the type “AE” luminaire east of room A109 to type “A” luminaire, do not connect to the emergency lighting circuit. Add NL designation to the type “A” luminaire southeast of room A109 and connect the luminaire to the emergency lighting circuit.

3) DRAWING SHEET 9.21 – FLOOR PLAN AREA “A” – POWER & SIGNAL

- a) Exterior: Delete the WP GFI duplex receptacles (two on the west side, one on the north side, and the north one on the east side). Delete the intercom bell and speaker on the west side of the building near the center of the gym.
- b) Room A106: Move the receptacle on the south wall to the north wall west of the door, receptacle shall be GFI. Add a duplex receptacle at the south end of the west wall for an ice maker, mount at 46” AFF and connect to LA-74.
- c) Room A124: Provide a communication outlet (1D) on the south wall adjacent to the duplex receptacle at 86” AFF.

4) DRAWING SHEET 9.22 – FLOOR PLAN AREA “B” - LIGHTING

- a) See the attached revision drawing.

5) DRAWING SHEET 9.23 – FLOOR PLAN AREA “B” – POWER & SIGNAL

- a) See the attached revision drawing.

6) DRAWING SHEET 9.24 – FLOOR PLAN AREA “C” – LIGHTING

- a) Room C128: Delete the “NL” designation from the southeast type “AE” luminaire.
- b) Room C129: Delete the “NL” designation from the west type “A” luminaire, change luminaire to type “AE”.
- c) Room C130: Delete the “NL” designation from the east type “A” luminaire, change the luminaire to type “AE”.
- d) Room C131: Delete the “NL” designation from the east type “A” luminaire, change the luminaire to type “AE”.
- e) Room C137: Delete the “NL” designation from the west type “A” luminaire, change the luminaire to type “AE”.

7) DRAWING SHEET 9.25 – FLOOR PLAN AREA “C” – POWER & SIGNAL

- a) Exterior: Delete the GFI WP duplex receptacle north of room C106. Move the GFI WP duplex receptacle south of room C119 to the west (just west of the door into room C120) and connect to circuit LC1-25.
- b) Room C101: Delete the GFI designation from the receptacle on the east wall.
- c) Room C122: Move panel “LC1” approximately 1’ north of the shown location.

8) DRAWING SHEET 9.26 – FLOOR PLAN AREA “D” – LIGHTING

- a) Room D119: Delete the “NL” designation from the north type “A” luminaire, change the luminaire to type “AE”. Add the “NL” designation to the south type “AE” luminaire, change the luminaire to type “A”.
- b) Room D103: Delete the “NL” designation from the west type “A” luminaire (outside of room D117).
- c) Room D120: Delete the “NL” designation from the south type “A” luminaire, change the luminaire to type “AE”.
- d) Room D121: Delete the “NL” designation from the north type “A” luminaire, change the luminaire to type “AE”. Add the “NL” designation to the south type “AE” luminaire, change the luminaire to type “A”.
- e) Room D122: Delete the “NL” designation from the south type “A” luminaire, change the luminaire to type “AE”.

9) DRAWING SHEET 9.27 – FLOOR PLAN AREA “C” – POWER & SIGNAL

- a) Exterior: Move the GFI WP duplex receptacle east of room D106 to the north (just north of the door into room D104) and connect to circuit LD2-26. Move the GFI WP duplex receptacle west of room D116 to the north (just north of the door into room D118) and connect to circuit LD2-28.

10) DRAWING SHEET 9.28 – FLOOR PLAN AREA “E” – LIGHTING

- a) Room E126: Move the “NL” designation from the west type “A” luminaire to the type “AE” luminaire to the west and change the type “AE” luminaire to type “A”.
- b) Room E127: Move the “NL” designation from the west type “A” luminaire to the type “AE” luminaire to the west and change the type “AE” luminaire to type “A”.

11) DRAWING SHEET 9.29 – FLOOR PLAN AREA “E” – POWER & SIGNAL

- a) Exterior: Delete the GFI WP duplex receptacle north of room E119. Move the GFI WP duplex receptacle south of room E107 to the east (just west of the door into room E106) and connect to circuit LE2-18.

12) DRAWING SHEET 9.40 – ELECTRICAL SCHEDULES & DETAILS

- a) Power Riser Diagram:
 - i) The available fault current at the chiller main disconnect switch “MDS-CH” is approximately 18,500A.
 - ii) The available fault current at main distribution panel “MDPM” is approximately 18,500A.
 - iii) The available fault current at main distribution panel “MDP” is approximately 18,000A.

13) DRAWING SHEET 9.41 – ELECTRICAL SCHEDULES

- a) Lighting Fixture Schedule: Add type “A3” luminaire. Luminaire shall be equal to Day-Brite 2FPZ-38L-840-DS-UNV-DIM.
- b) Lighting Fixture Schedule: Type AA site lighting unit description indicates PS metal halide lamping, the luminaires shall be LED as scheduled.

14) DRAWING SHEET 9.42 – ELECTRICAL SCHEDULES

- a) Panel “HB” Schedule: AIC rating shall be 18,000A.

15) DRAWING SHEET 9.43 – ELECTRICAL SCHEDULES

- a)

[illegible]

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

<u>SECTION</u>	<u>ITEM</u>	<u>MANUFACTURER</u>
034100	Plant-Precast Structural Concrete	Collins Precast
047200	Cast Stone Masonry	Cast Stone Commercial Services and Stone Legends
072726	Fluid-Applied Weather Barriers	NaturaSeal; <i>NS A250 HP</i>
074243	Composite Wall Panels	Alfrex, LLC

087100	Door Accessories & Plates	Rockwood Mfg
087100	Automatic Door Operators	Norton; <i>6000 Series</i>
087100	Door Closers	Sargent; <i>281 Series</i>
087100	Exit Devices	Sargent; <i>80 Series</i>
093000	Tiling	
	T-1:	Virginia Tile Company VTL Watson 12x24 Bronze.
	T-2:	Virginia Tile Company VTL Watson 12x24 Silver.
	T-3:	Virginia Tile Company VTL Foundation 2x2 Storm Speckled Mosaic.
	T-4:	Virginia Tile Company VITL Collection, Baseline, Color: Fog Glossy, Size: 3" x 6"
	T-5:	Virginia Tile Company VTC Domestic Collection, Color: A199, Size: 6" x 36"
	QT-1:	Virginia Tile Company VTL Parkette 8x8 Gray Abrasive.
096519	Resilient Tile Flooring	
	LVT 1-3:	AVA Ryme
	LVT-1:	<i>Tarkett – iD Latitude Concrete.</i> Color: As selected by Architect.
	LVT-2:	<i>Tarkett - (50%) iD Latitude Stone; (50%) iD Latitude Concrete.</i> Color: As selected by Architect
	LVT-3:	<i>Tarkett - Texgrain.</i> Color: As selected by Architect.
105113	Metal Lockers	Lockers MFG; <i>Heavy-Duty Metal Lockers</i> Elite Lockers
116623	Gymnasium Equipment	ADP Lemco
321823	Synthetic Track Surfacing	Hellas Construction epiqTracks 100

220600 – 1.02	Cabinet Unit Heater	Turbonics
220600 – 1.03	Propeller Unit Heater	VTs
220600 – 1.14	Boiler Burner	Power Flame Inc. (Burnham Boiler) IC Burners, Riello Burners (Superior Boiler)
220600 – 1.24	Ice Storage Tanks	Dunham Bush
230800 – 1.05	Air Handling Units	Dunham Bush, VTs
230800 – 1.05	Variable Frequency Drives	Schneider Electric, Danfoss
230800 – 1.07/1.08	Duct Free Condensing Unit/Duct Free Fan Coil Unit	Lennox
230800 – 1.18	Duct Mounted Heating Coils	Greenheck
230800 – 1.31	Fabric Duct System	Prihoda, Fabric Air
264610	Dry-Type Transformers	MGM
287210	Fire Alarm	Notifier
265110/265210	Interior and Exterior Lighting	
	Type A Series	Lithonia
	Type C, CE	Lithonia
	Type D, DE, D1, D1E, D2, D2E	Lithonia
	Type E, E1	Emergency
	Type F, FE	Lithonia, Metalux
	Type G	Lithonia
	Type H Series	Lithonia
	Type J#, J#E, K#, K#E	Peerless
	Type L	Lumenwerx, Prudential
	Type M, ME, M1, M1E	Lithonia
	Type N2	Mark, Omnilight
	Type S	Lithonia, Portfolio
	Type T, TW, T1, T1W	Lithonia, Portfolio
	Type TA	FC, WE-EF
	Type TD	Lithonia
	Type TS	Aluz, Primus, Tempo
	Type TT	Elite, Juno
	Type VF	Lithonia, New-Star
	Type WC	Camman, Del Toro
	Type Y, Y3, Y4	Lithonia, McGraw-Edison
	Type Z	Lithonia, Lumark
	Type AA, AA2A, AA2B, AA3	Lithonia, Lumark

END OF ADDENDUM

SECTION 012100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Certain materials and equipment are specified in the Contract Documents by allowances. In some cases, these allowances include installation. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum (**roofing materials ONLY**) allowances.
- C. Related Sections include the following:
 - 1. Divisions 01 through 33 Sections for items of Work covered by allowances.
 - 2. Section 012600 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

- A. Allowance: A quantity of work or dollar amount included in the Contract, established in lieu of additional requirements, used to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor. If necessary, additional requirements will be issued by Change Order.

1.4 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.5 ACTION SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances in the form specified for Change Orders.

1.6 INFORMATIONAL SUBMITTALS

- A. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
 - 1. The roofing subcontractor shall an itemized breakdown of all roofing material quantities and costs.
 - a. In addition, submit itemized invoices from roofing material supplier(s) to support the quantities and costs outlined in the roofing subcontractors itemized breakdown.
- B. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.7 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include freight and delivery to Project site.
 - 1. The roofing allowance specified herein shall include each and every **[material]** component necessary to provide a complete EPDM roofing system(s) as specified, including but not limited to:
 - a. Polyethylene film vapor retarders and self-adhering-sheet vapor retarders.
 - b. Polyisocyanurate roof insulation (flat and tapered), including preformed saddles, crickets, tapered edge strips, and other insulation shapes that may be required.
 - c. Roof insulation fasteners and adhesives.
 - d. Flexible walkways.
 - e. EPDM membranes.
 - f. All auxiliary materials recommended by roofing system manufacturer to meet applications indicated on the drawings, including but not limited to sheet flashings, bonding adhesives, seaming materials, lap sealants, water cutoff mastics, metal termination bars, factory-coated steel fasteners and metal or plastic plates, pourable sealers, pre-formed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other materials and accessories, as required.
 - g. All sheet metal roof flashings and counterflashings that are integral with the EDPM roofing system(s) specified.
 - h. All sheet metal roof edge flashings and all sheet metal copings located around the perimeter of all EPDM roof assemblies indicated on the drawings.
- B. Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials **[ordered by Owner]** **[selected by Architect]** under allowance shall be included as part of the Contract Sum and not part of the allowance.

1. All freight and delivery (to Project site) costs for all roofing materials included in the roofing allowance shall be included as part of the Contract Sum and not part of the roofing allowance.
2. All labor associated with furnishing and installing the EPDM roofing materials included in the roofing allowance shall be included as part of the Contract Sum and not part of the roofing allowance.

1.8 UNUSED MATERIALS

- A. Return unused materials purchased under an allowance to manufacturer or supplier for credit to Owner, after installation has been completed and accepted.
 1. If requested by Architect, prepare unused material for storage by Owner when it is not economically practical to return the material for credit. If directed by Architect, deliver unused material to Owner's storage space. Otherwise, disposal of unused material is Contractor's responsibility.

1.9 ADJUSTMENT OF ALLOWANCES

- A. Allowance Adjustment: To adjust allowance amounts, prepare a Change Order proposal based on the difference between purchase amount and the allowance, multiplied by final measurement of work-in-place where applicable. If applicable, include reasonable allowances for cutting losses, tolerances, mixing wastes, normal product imperfections, and similar margins.
- B. Submit claims for increased costs because of a change in scope or nature of the allowance described in the Contract Documents, whether for the purchase order amount or Contractor's handling, labor, installation, overhead, and profit.
 1. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.
 2. No change to Contractor's indirect expense is permitted for selection of higher- or lower-priced materials or systems of the same scope and nature as originally indicated.
 3. At the time when the roofing material prices can be confirmed, the contractor shall submit actual invoices from all material manufacturers or suppliers identifying actual cost for all roofing materials. Invoices from the contractor or roofing subcontractor will not be accepted.

PART 2 - RODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

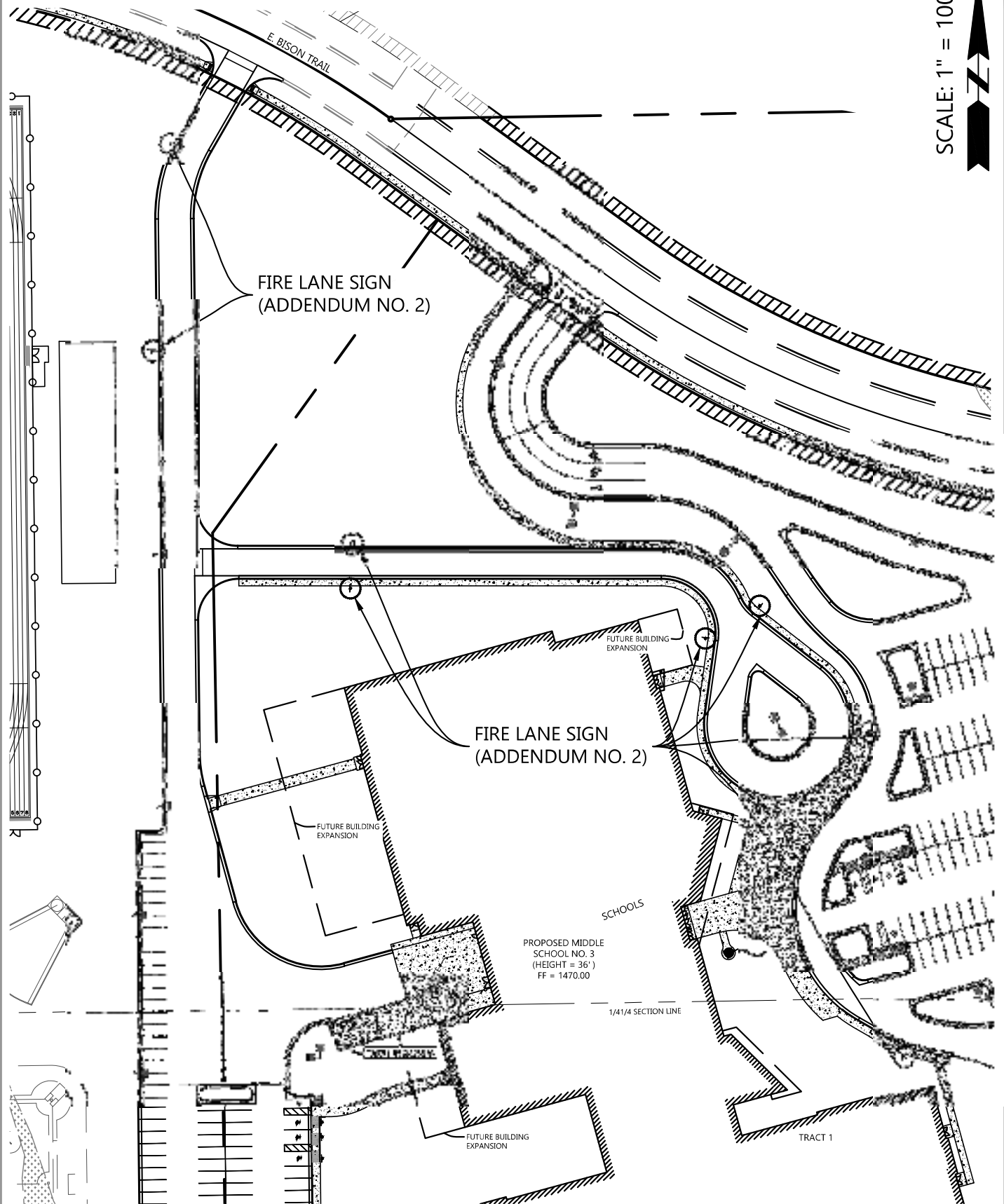
- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Roofing Allowance: Base Bid: Include an allowance of [**\$890,000.00**] for roofing materials [**only**] as specified herein in Section 012100 “*Allowances*” and as specified per Section 075323 “*Ethylene-Propylene-Diene-Monomer (EPDM) Roofing*” and as indicated on the drawings.
- B. Roofing Allowance: Add Alternate #1 (Classroom Addition) Bid: Include an allowance of [**\$19,000.00**] for roofing materials [**only**] as specified herein in Section 012100 “*Allowances*” and as specified per Section 075323 “*Ethylene-Propylene-Diene-Monomer (EPDM) Roofing*” and as indicated on the drawings

END OF SECTION 012100

SCALE: 1" = 100'



HARRISBURG MIDDLE SCHOOL
NO. 3

SCD - 1

DRAWN BY: KEL

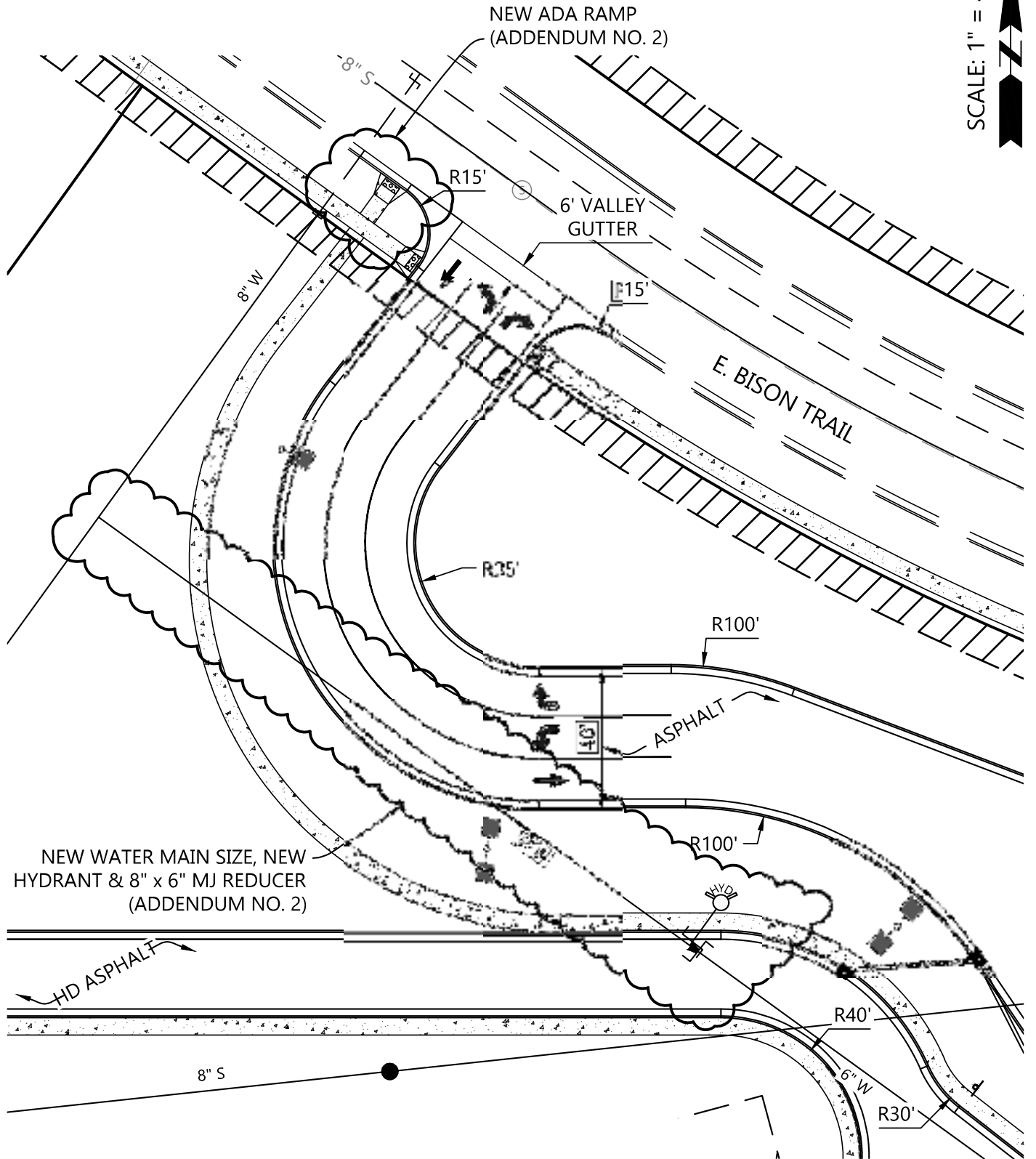
DATE: 10/01/2021

CHECKED BY: PJK

PROJECT NO.: 22725

Sayre
Associates
2165 Duluth Avenue • Suite 101 • SD 57104
Phone: (605) 332-9211 • Fax: (605) 332-9222
Engineers • Surveyors

SCALE: 1" = 40'

HARRISBURG MIDDLE SCHOOL
NO. 3

SCD - 2

DRAWN BY: KEL

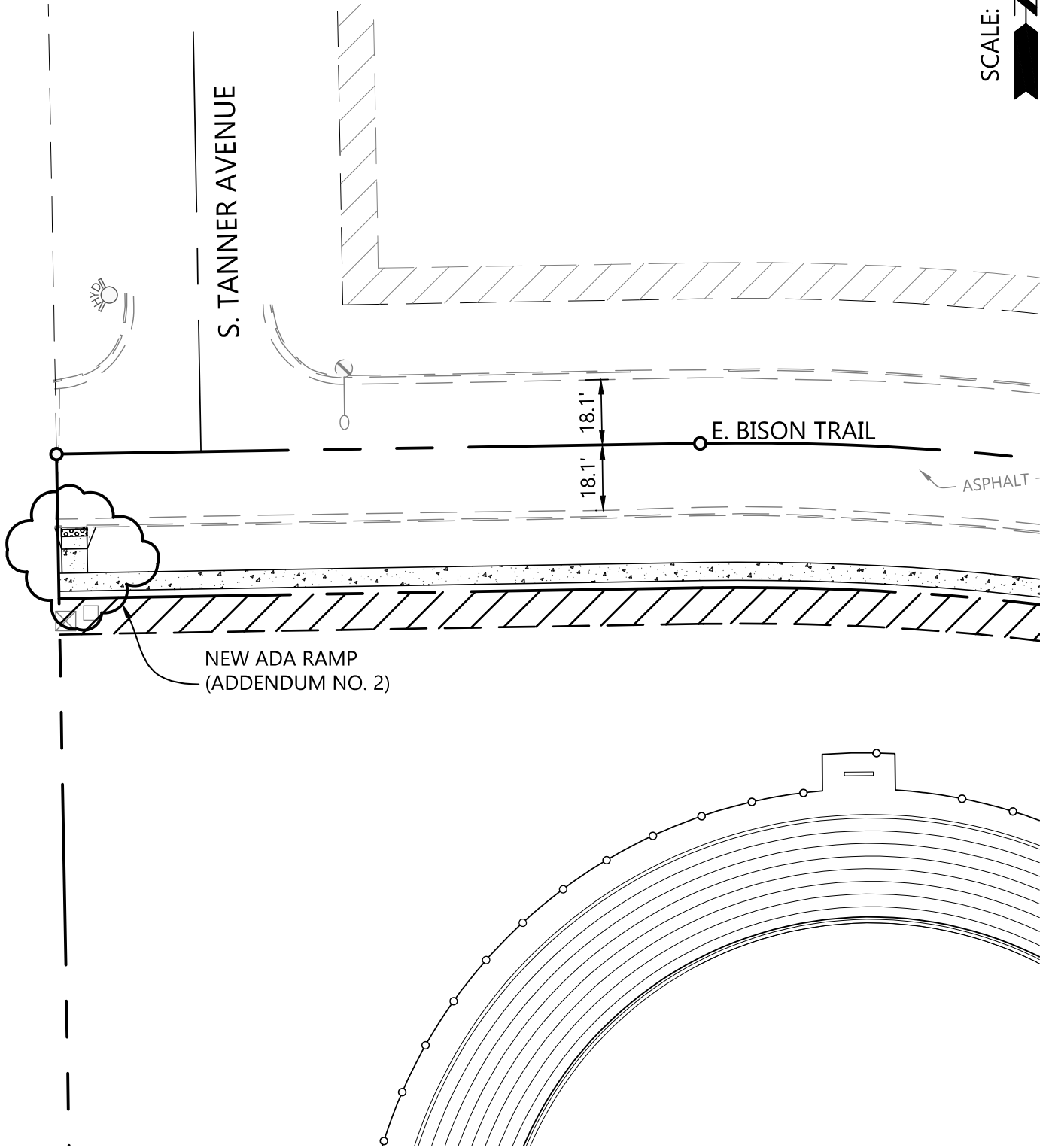
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CHECKED BY: PJK

PROJECT NO.: 22725

Sayre
Associates
2165 Duluth Avenue • Suite 101 • St. Paul, MN 55104
Phone: (651) 332-7211 • Fax: (651) 332-7222
Engineers • Surveyors

SCALE: 1" = 40'

HARRISBURG MIDDLE SCHOOL
NO. 3

SCD - 3

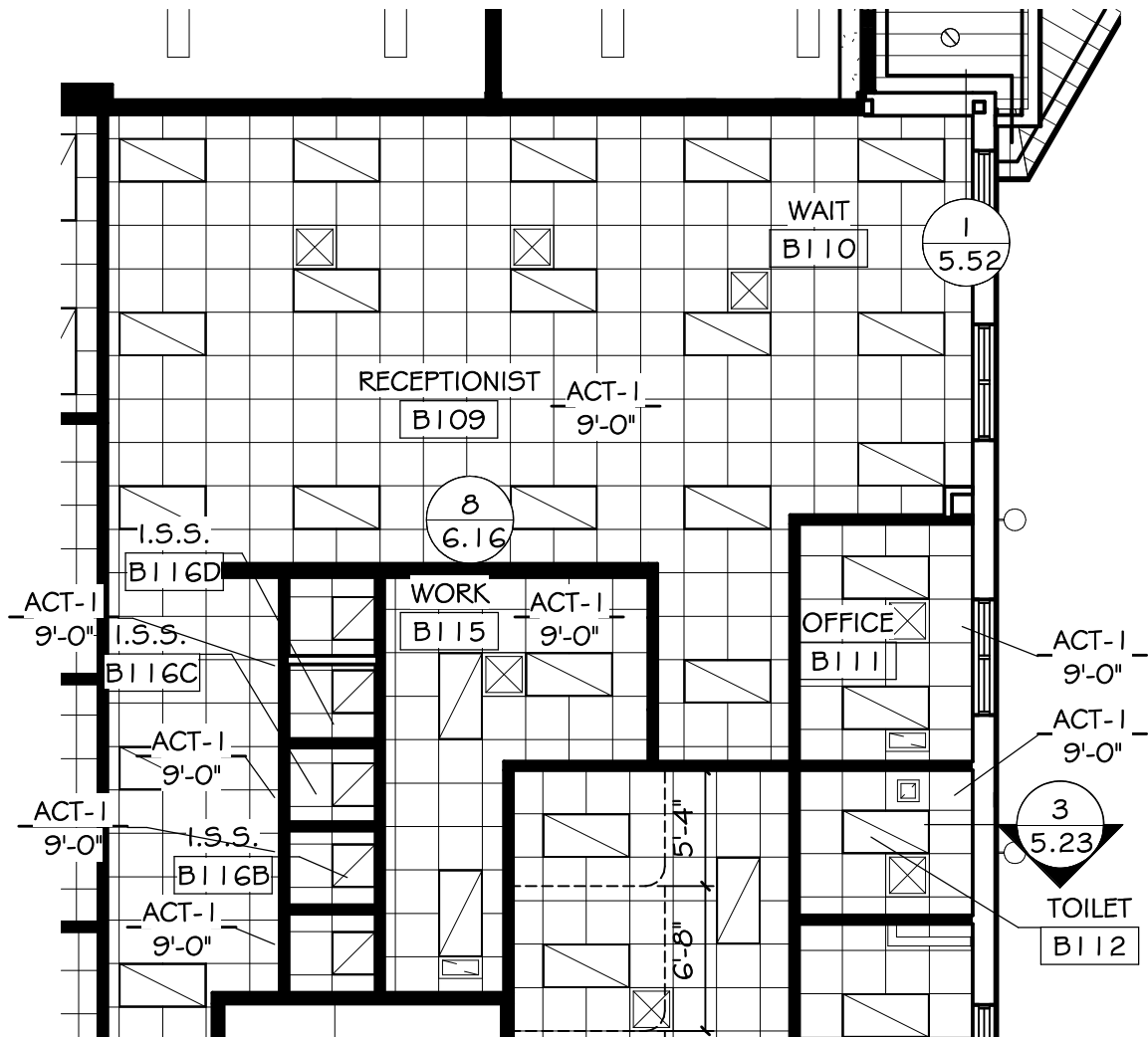
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REFLECTED CEILING PLAN - RECEPTION

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



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

drawn BJO

checked SRJ

date OCTOBER 1, 2021

revision _____

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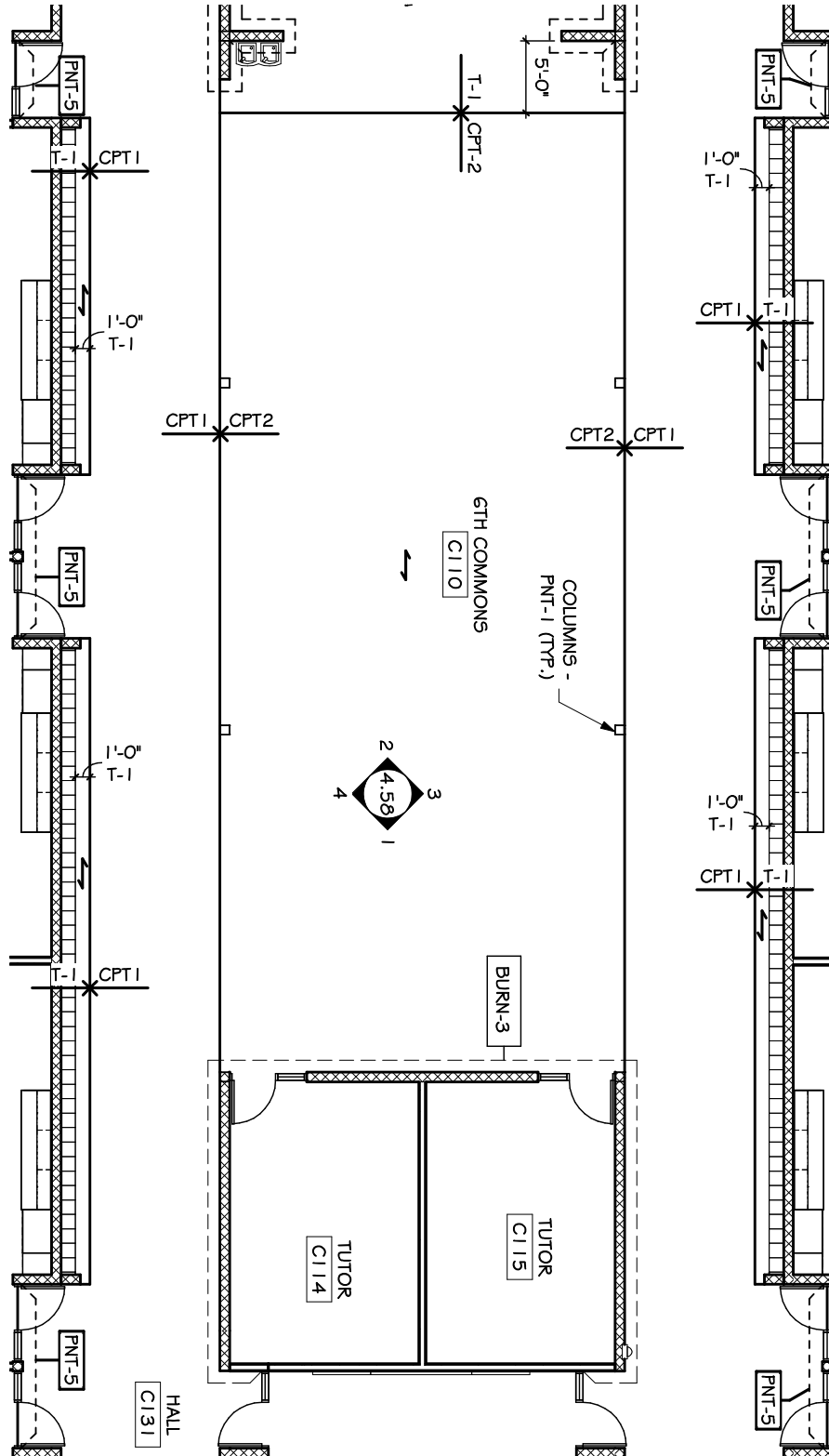
sioux falls and rapid city, south dakota

DRAWING

SD15

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

FINISH PLAN - AREA C POD



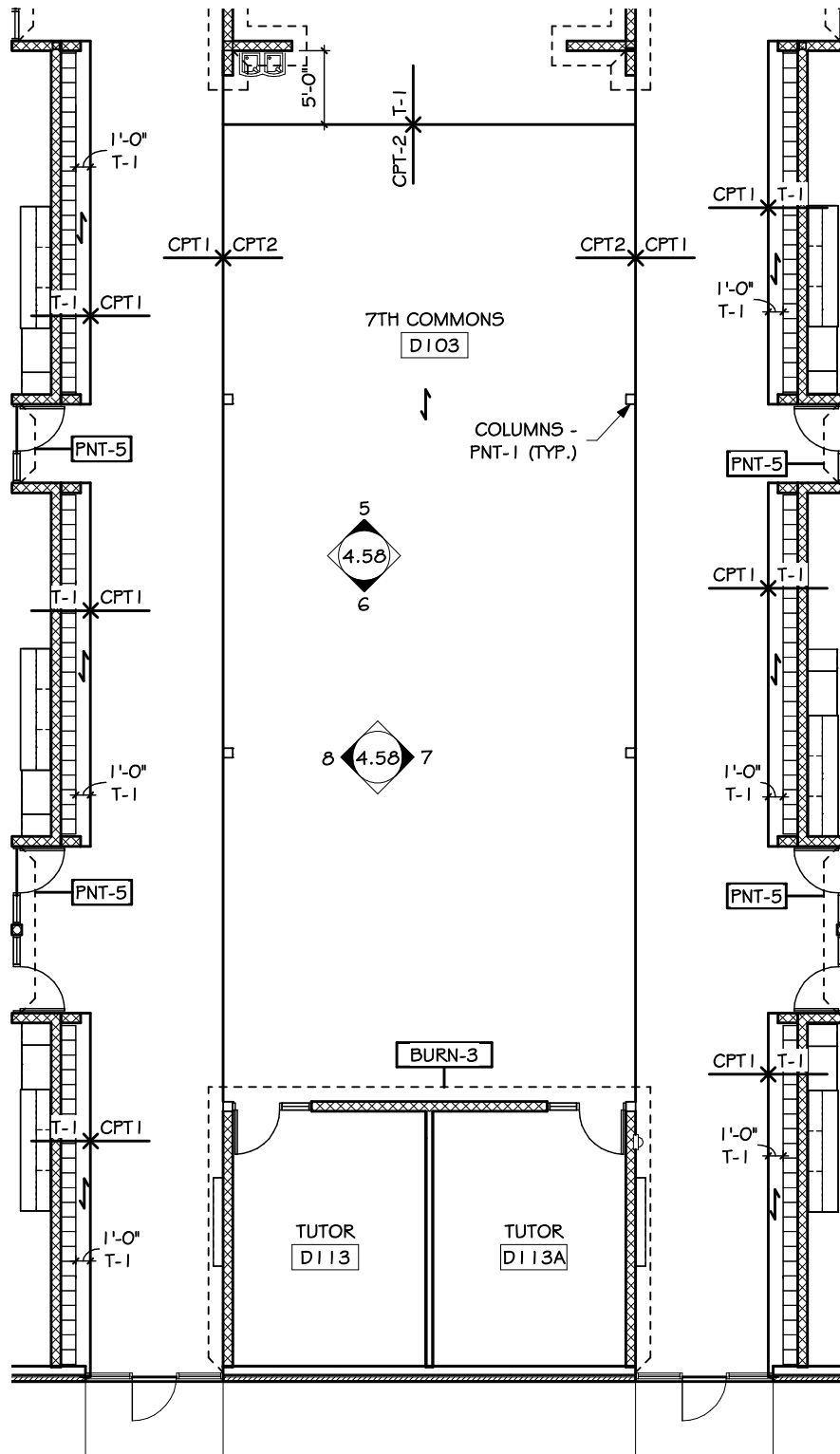
project HARRISBURG MIDDLE SCHOOL #3
 number 1002.2903.20 drawn BJO checked SRJ
 date OCTOBER 1, 2021 revision _____

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415 south main avenue, sioux falls, south dakota 57101 (605)339-1711

DRAWING

SD16



1
SD17 FINISH PLAN - AREA D POD
SCALE: 1/8" = 1'-0"



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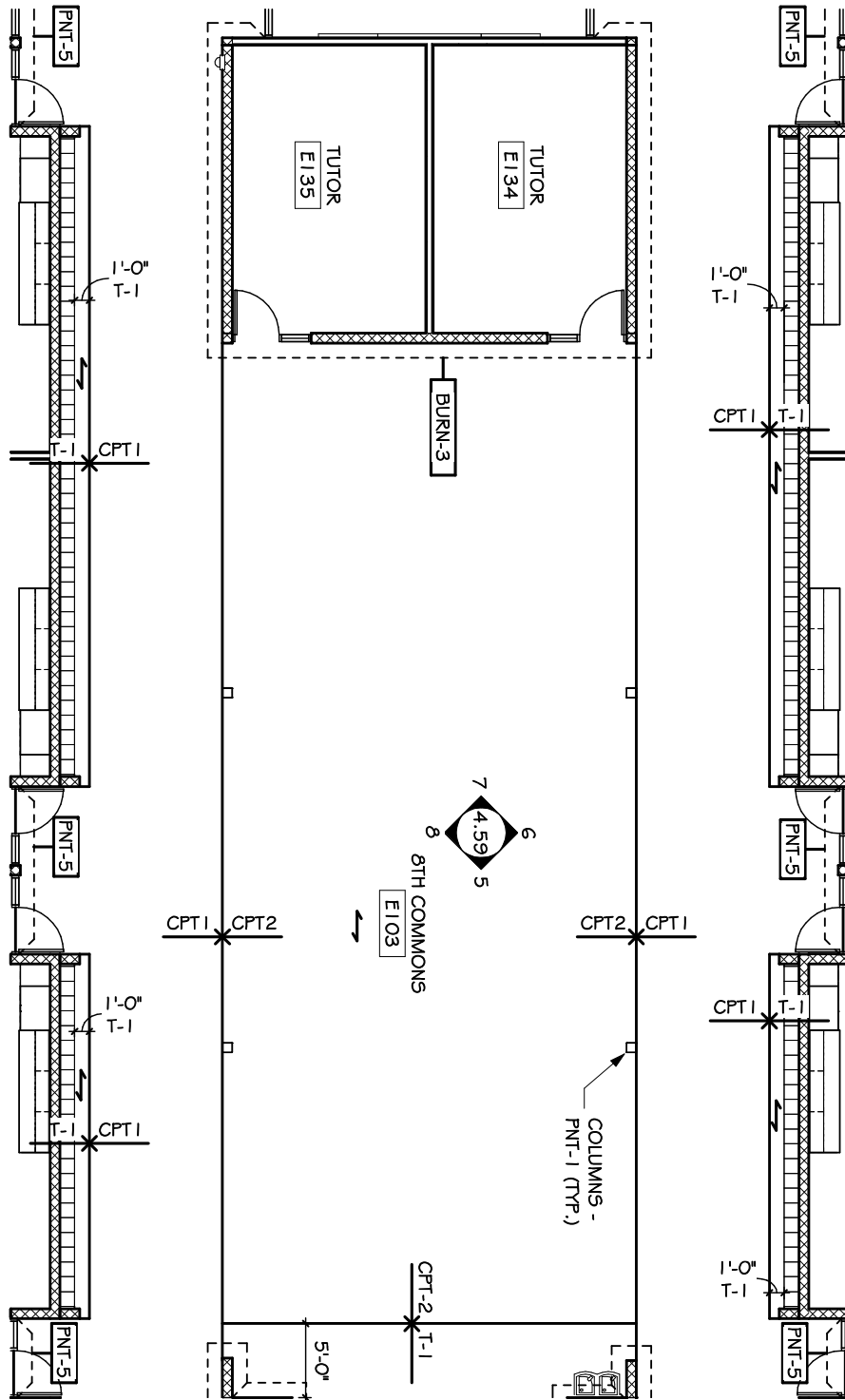
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DRAWING

SD17

1
SD18 SCALE: 1/8" = 1'-0"

FINISH PLAN - AREA E POD



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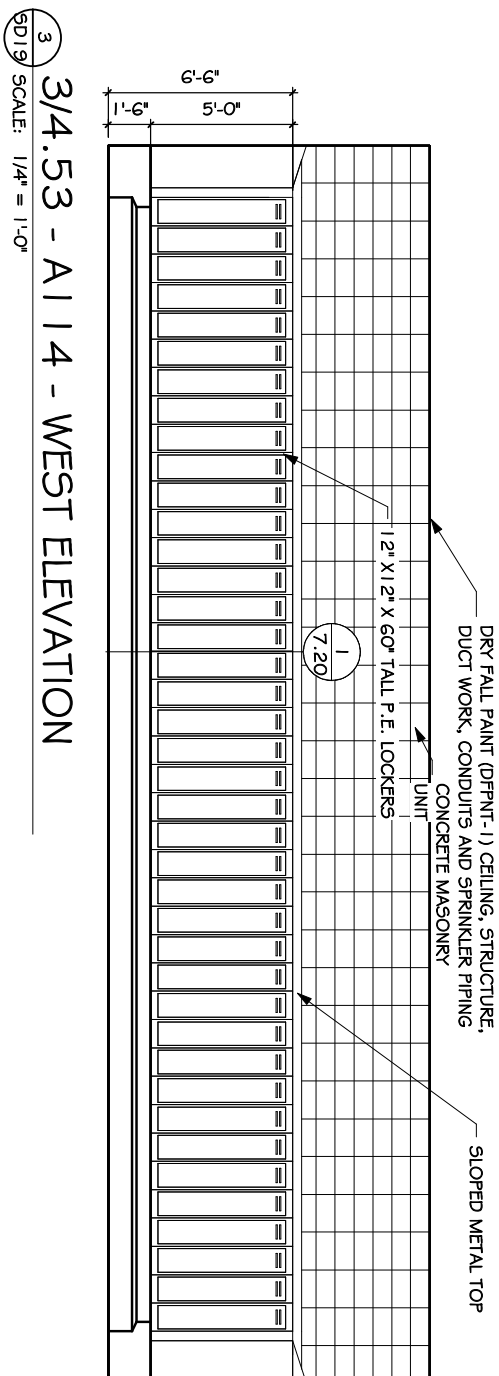
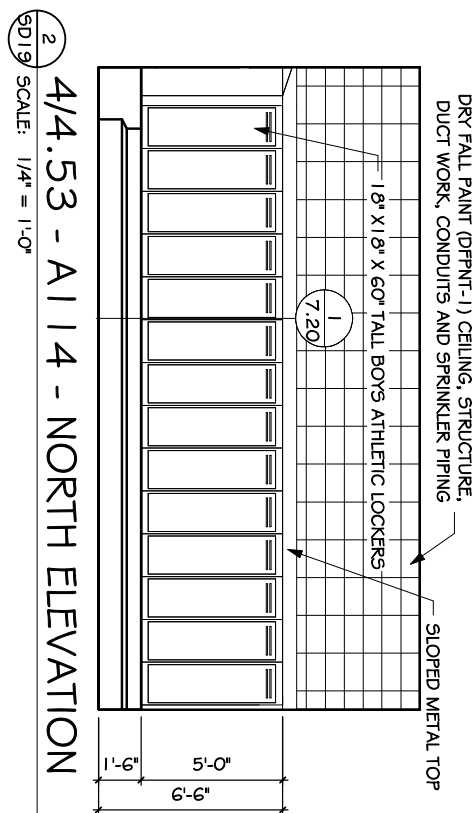
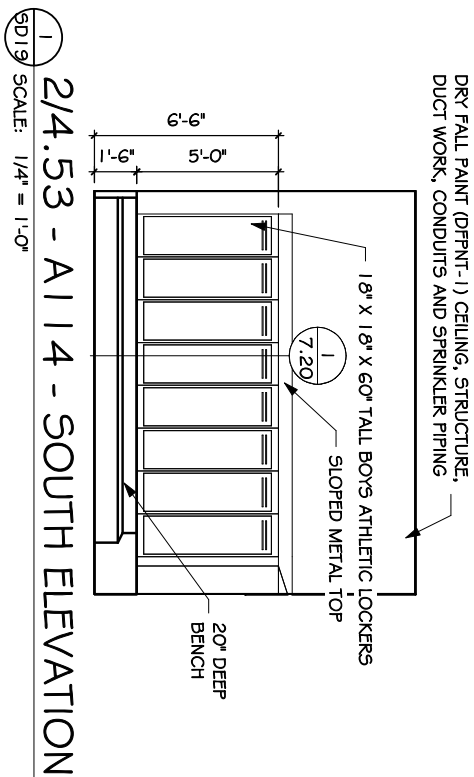
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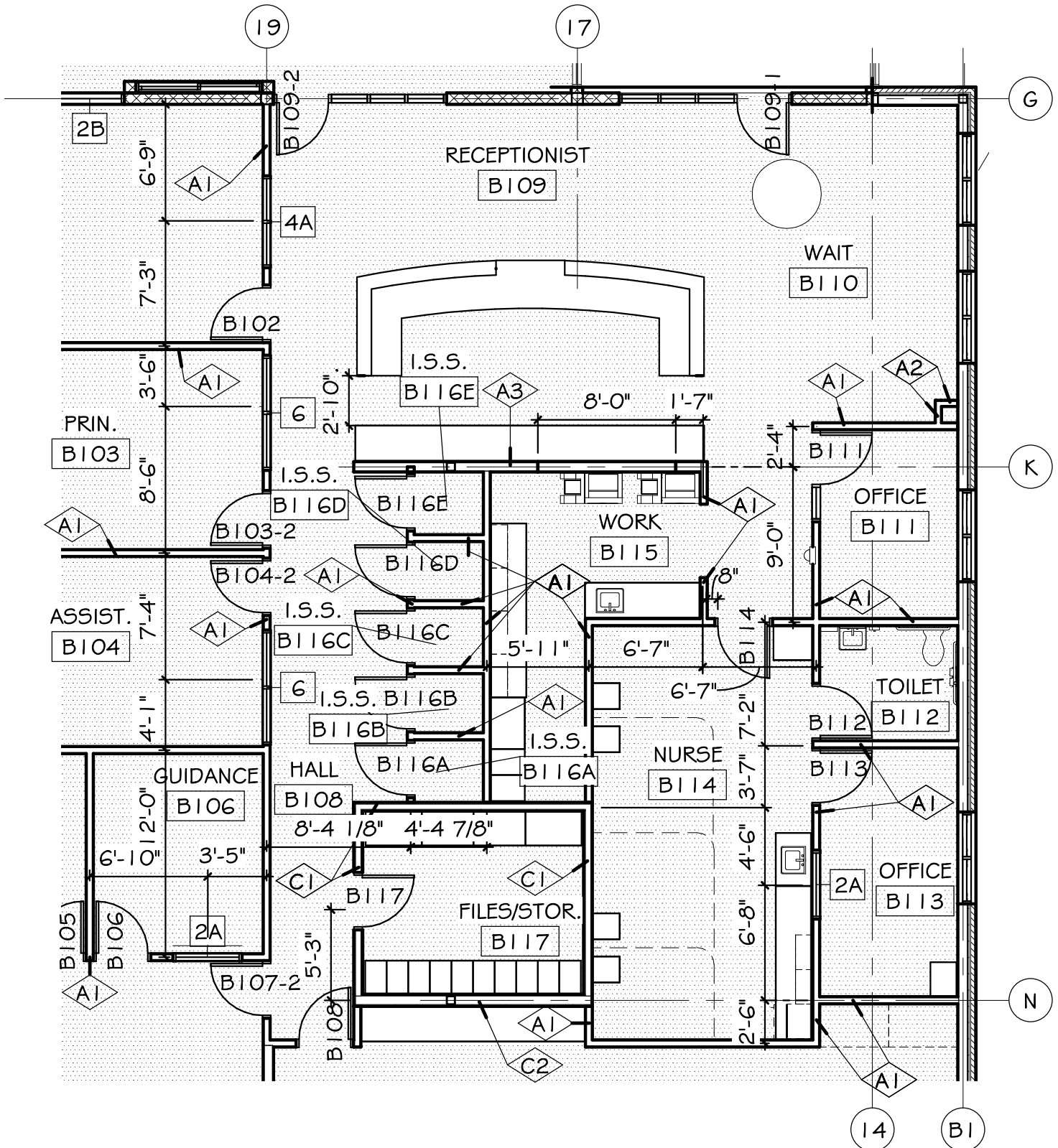
SD18



Project: HARRISBURG MIDDLE SCHOOL #3
number: 1002.2903.20
date: OCT 1, 2021
revision: _____
drawn: CUM
checked: SRJ
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DRAWING
SD19





4.12 - PARTIAL FLOOR PLAN - AREA B

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



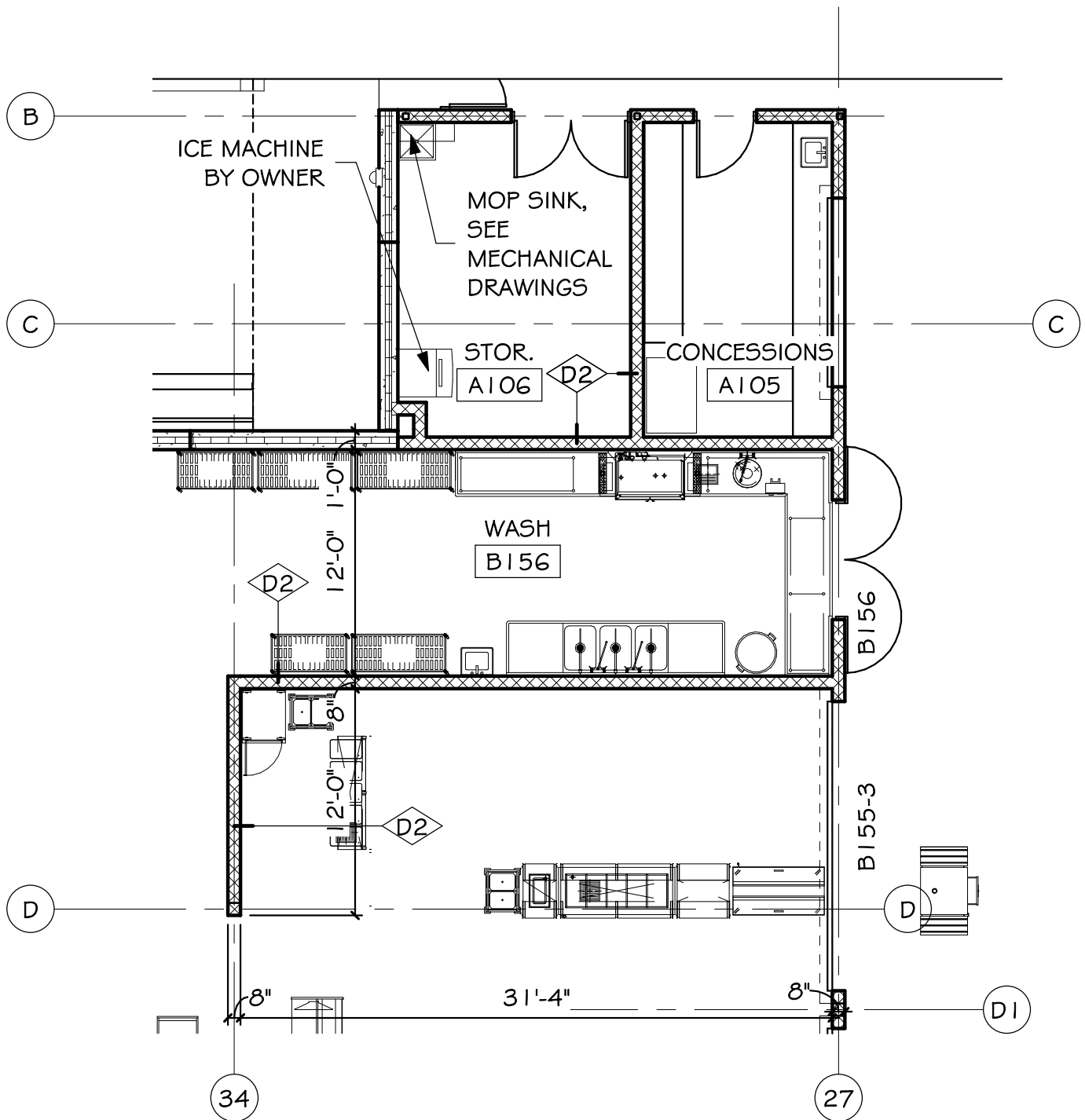
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 number 1002.2903.20 drawn CJM checked SRJ
 date OCT 1, 2021 revision _____

Architecture Incorporated

sioux falls and rapid city, south dakota

DRAWING

SD20



1
SD21

4.12 - PARTIAL FLOOR PLAN - AREA B

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



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20 drawn CJM checked SRJ

date OCT 1, 2021 revision _____

Architecture Incorporated

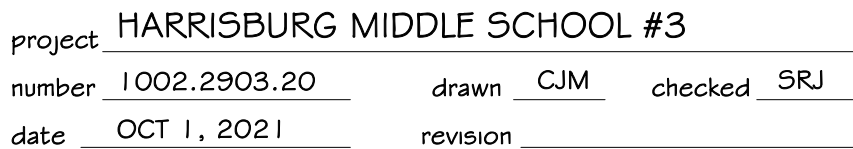
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DRAWING

SD21

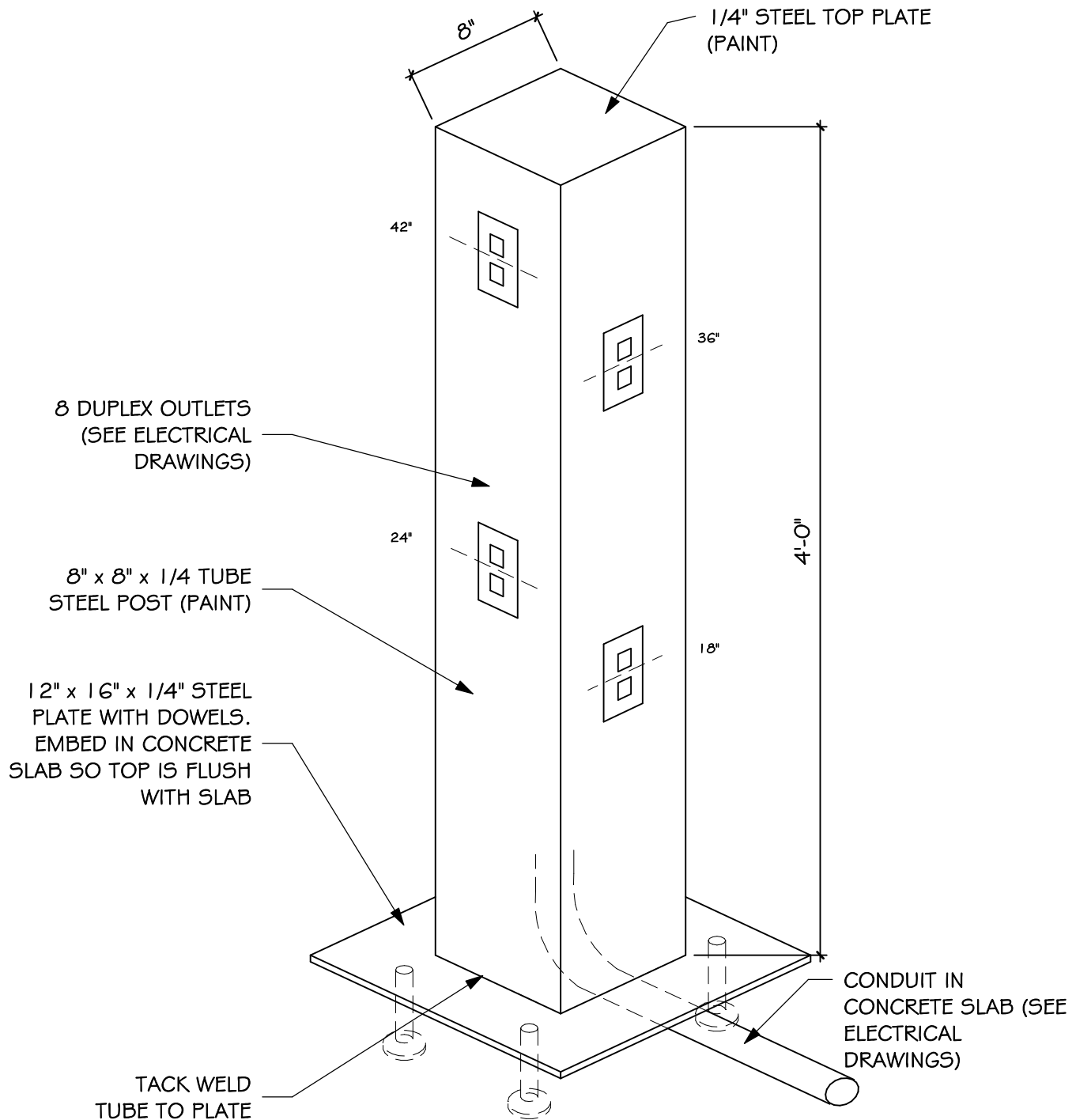


SCALE: $1/8" = 1'-0"$



sioux falls and rapid city, south dakota

SD22



POWER POLE - BOLLARD

SCALE: 1 1/2" = 1'-0"



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

drawn CJM

checked SRJ

date OCT 1, 2021

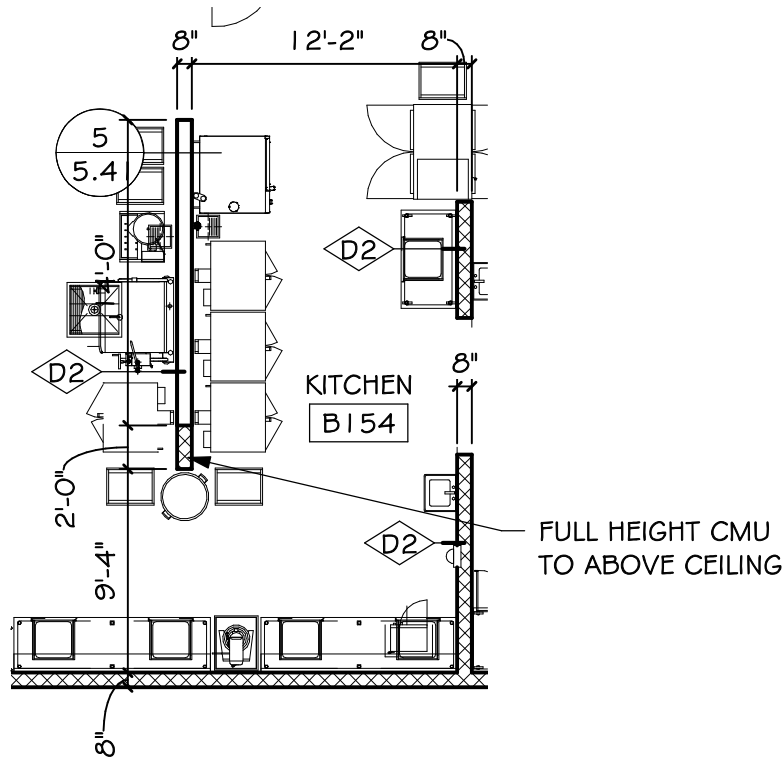
revision _____

Architecture Incorporated

sioux falls and rapid city, south dakota

DRAWING

SD23



4.12 - PARTIAL FLOOR PLAN - AREA B

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



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

drawn CJM checked SRJ

date OCT 1, 2021

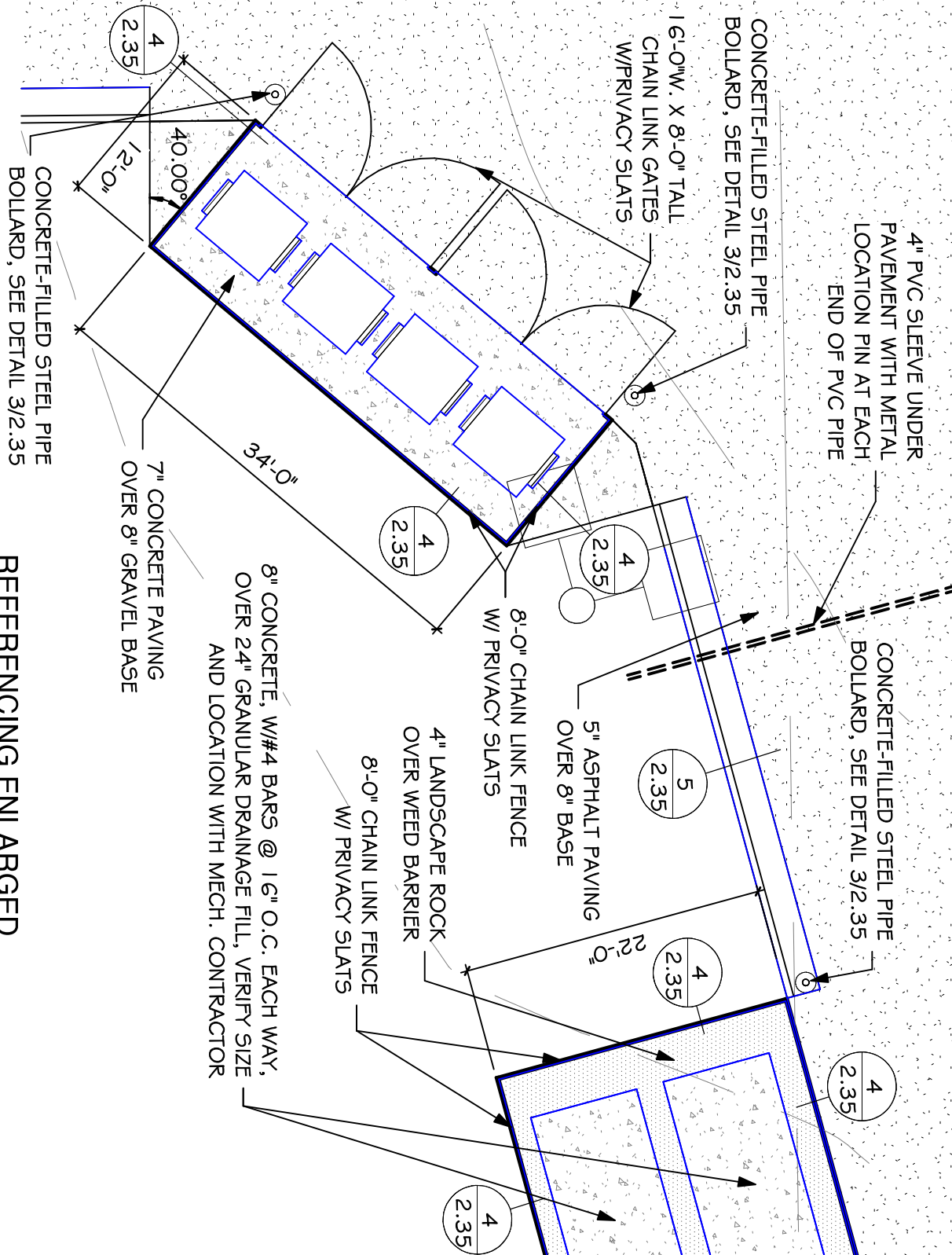
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Architecture Incorporated

sioux falls and rapid city, south dakota

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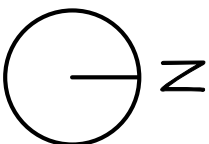
SD24



SITE PLAN - AREA D - TRASH ENCLOSURE

SD-25 SCALE: 1" = 10'-0"

REFERENCING ENLARGED FLOOR PLAN - 11/2.35

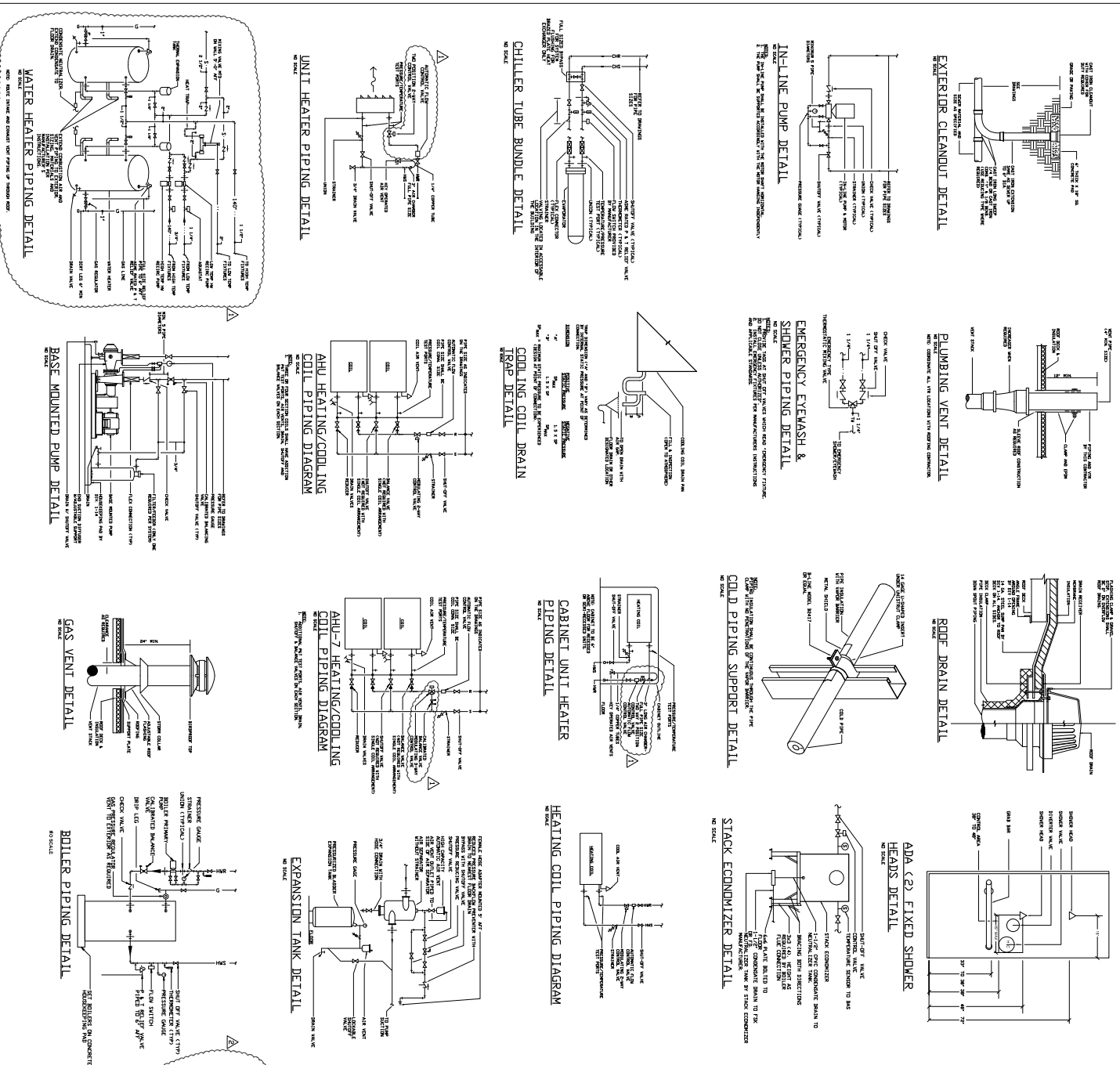


project HARRISBURG MIDDLE SCHOOL #3
 number 1002.2903.20 drawn KCP checked SRJ
 date OCTOBER 1, 2021 revision

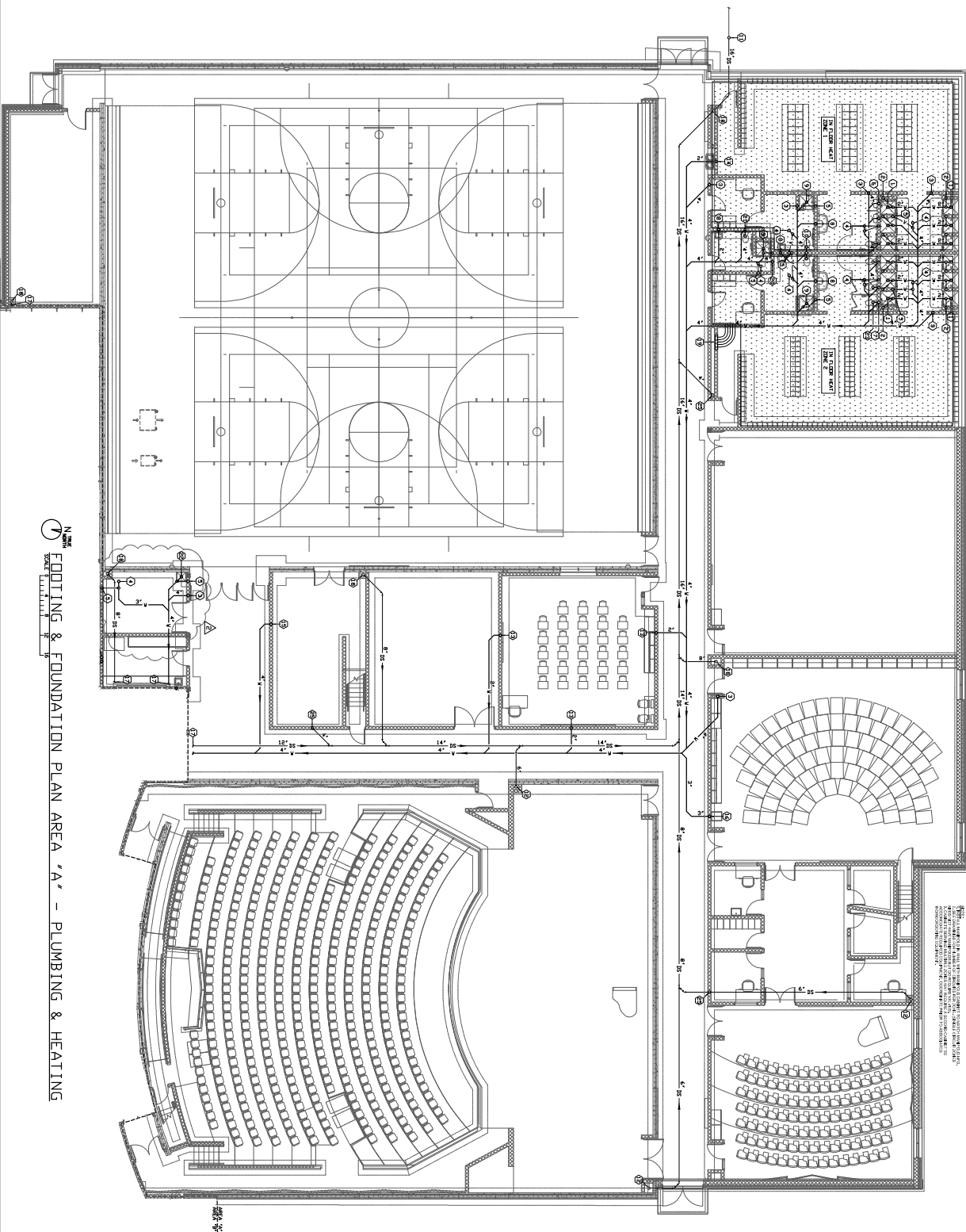
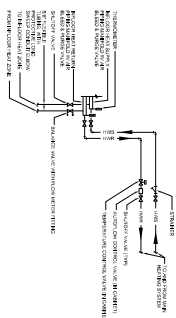
Architecture Incorporated
 sioux falls and rapid city, south dakota

DRAWING

SD-25



SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1	1/2" NPT VENT	1	1/2" NPT VENT	1	1/2" NPT VENT
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INFLOOR HEAT PIPING DETAIL

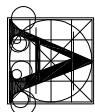
THE NEW HAVEN POLICE DEPARTMENT HAS COMPLETED A MAJOR INVESTIGATION OF THE CITY'S POLICE OFFICERS' UNION, WHICH CHIEF OF POLICE JOHN J. COUGHLIN HAS CALLED A "BROTHERHOOD OF THIEVES." COUGHLIN STATED THAT THE UNION HAS BECOME A "500-POUND GOAT" TO ACCORDING TO PHILIP R. COUGHLIN, CHIEF OF POLICE. COUGHLIN STATED THAT THE UNION HAS BECOME A "BROTHERHOOD OF THIEVES."

GENERAL NOTES:

1. VERIFY SIZES AND LOCATIONS PRIOR TO ASSOCIATED WORK.
2. COORDINATE SERVICE INTERACTIONS WITH GENERAL CONTRACTOR PRIOR TO ASSOCIATED WORK.
3. SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.

PLUMBING NOTES:

- [illegible]



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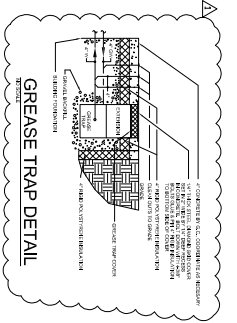
**Associated
Consulting
Engineering,
I Incorporated**

340 S. Phillips Ave.
Stouffville, S.O. 57104

(606) 336-5720
Fax 336-6220
E-mail: assoceng@aol.com
ACEL #120066

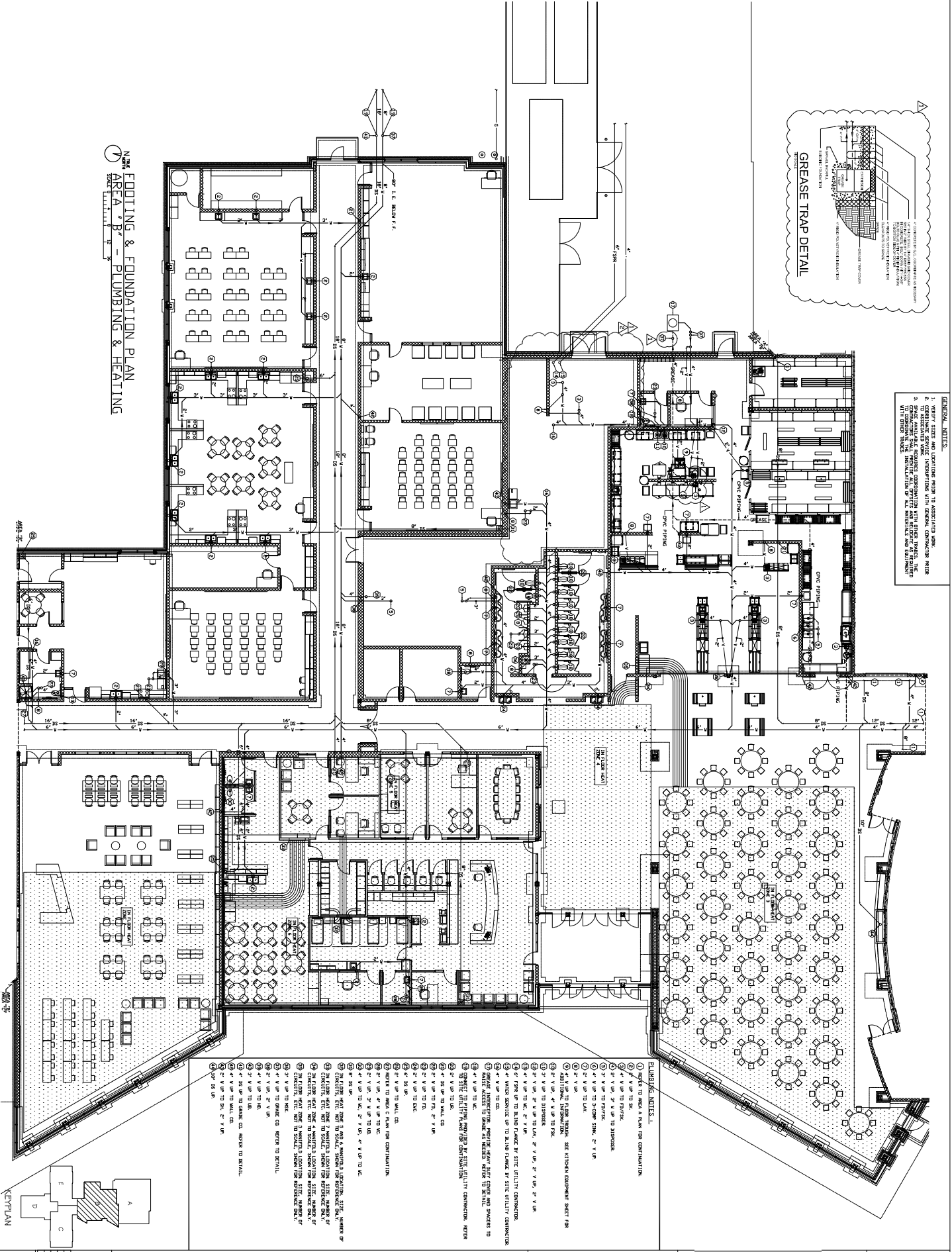
project: **HARRISBURG MIDDLE SCHOOL #3**

about contents: **FOOTING & FOUNDATION PLAN- AREA A- PLMB & HTG**



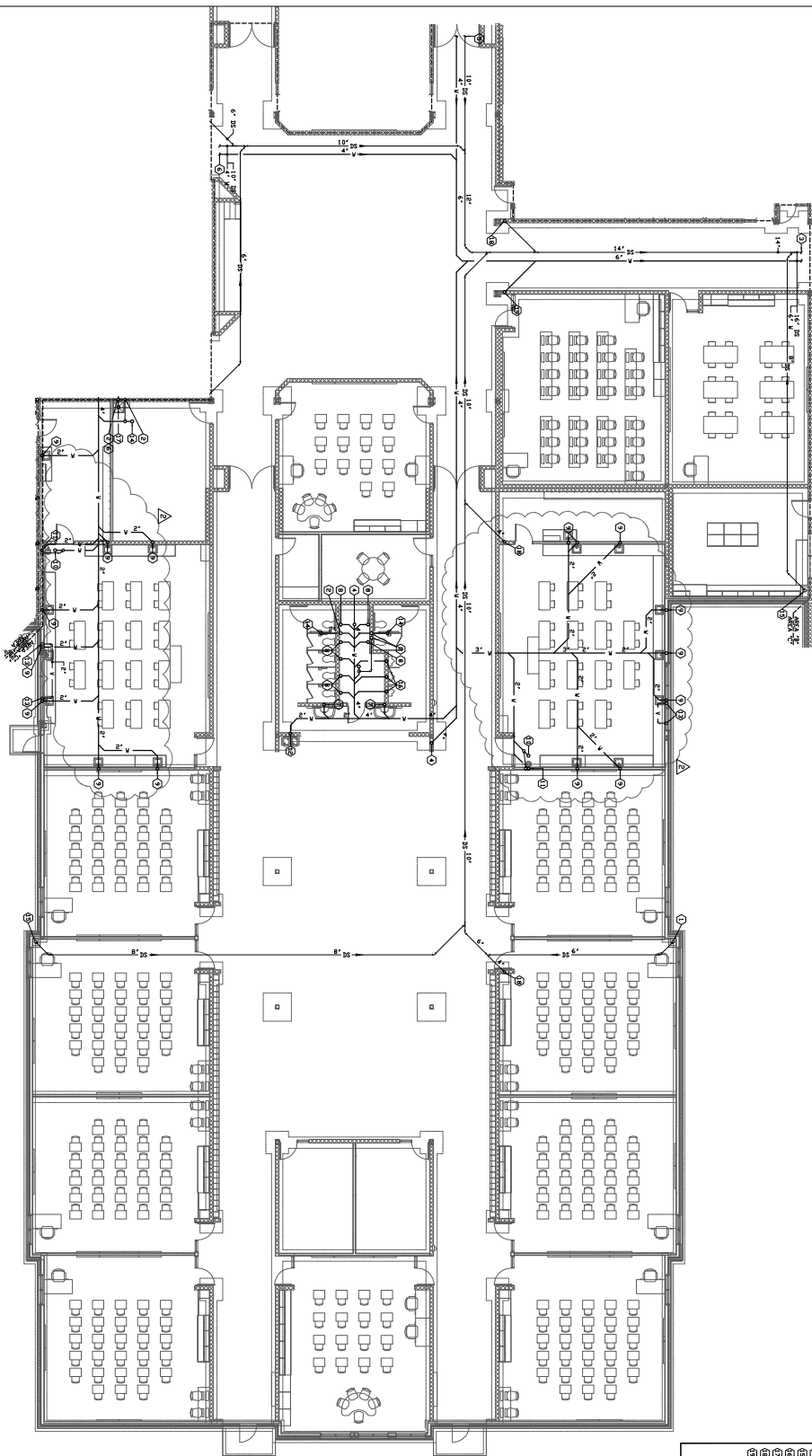
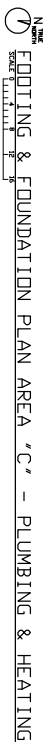
- GENERAL NOTES:**
1. VERIFY SIZE AND LOCATION PRIOR TO ASSOCIATED WORK.
 2. TO ASSURE THE WORK, INTERFERING WITH GENERAL CONTRACTOR WORK.
 3. CONSULTING SHALL PROVIDE ALL NECESSARY MATERIALS AND EQUIPMENT WITH OTHER TRADES.

**FOOTING & FOUNDATION PLAN
AREA "B" - PLUMBING & HEATING**



EXPLANATION NOTES:

1. REFER TO AREA A PLAN FOR CONTINUATION.
2. 1" V.B. TO FLOOR.
3. 1" V.B. TO FLOOR.
4. 1" V.B. TO FLOOR.
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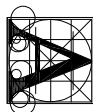


GENERAL NOTES:

1. ANY MECHANICAL PENETRATIONS INTO OR OUT OF A STORM SHELTER SHALL BE PROTECTED FROM INCOMING PROJECTILES BY CONCRETE Baffles. SEE ARCHITECTURAL CODE PLAN OF EXTENTS OF STORM SHELTERS

PLUMBING NOTES :

- ① 2° or 3° alkyl
- ② 2° or 3° alkyl
- ③ 2° or 3° alkyl
- ④ 2° or 3° alkyl
- ⑤ 2° or 3° alkyl
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**Architecture
Incorporated**

415 South Main Avenue
P.O. Box 2140
Portland, ME 04112
Phone 603/685-1100



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Consulting
Engineering,
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ncorporated**

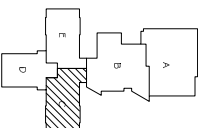
340 S. Phillips Ave.
Shour Park, S.C. 29714
(803) 315-3720
Fax: 803-6220
E-mail: aaee@associated.com
ACEE #120086

project

HARRISBURG MIDDLE SCHOOL #3

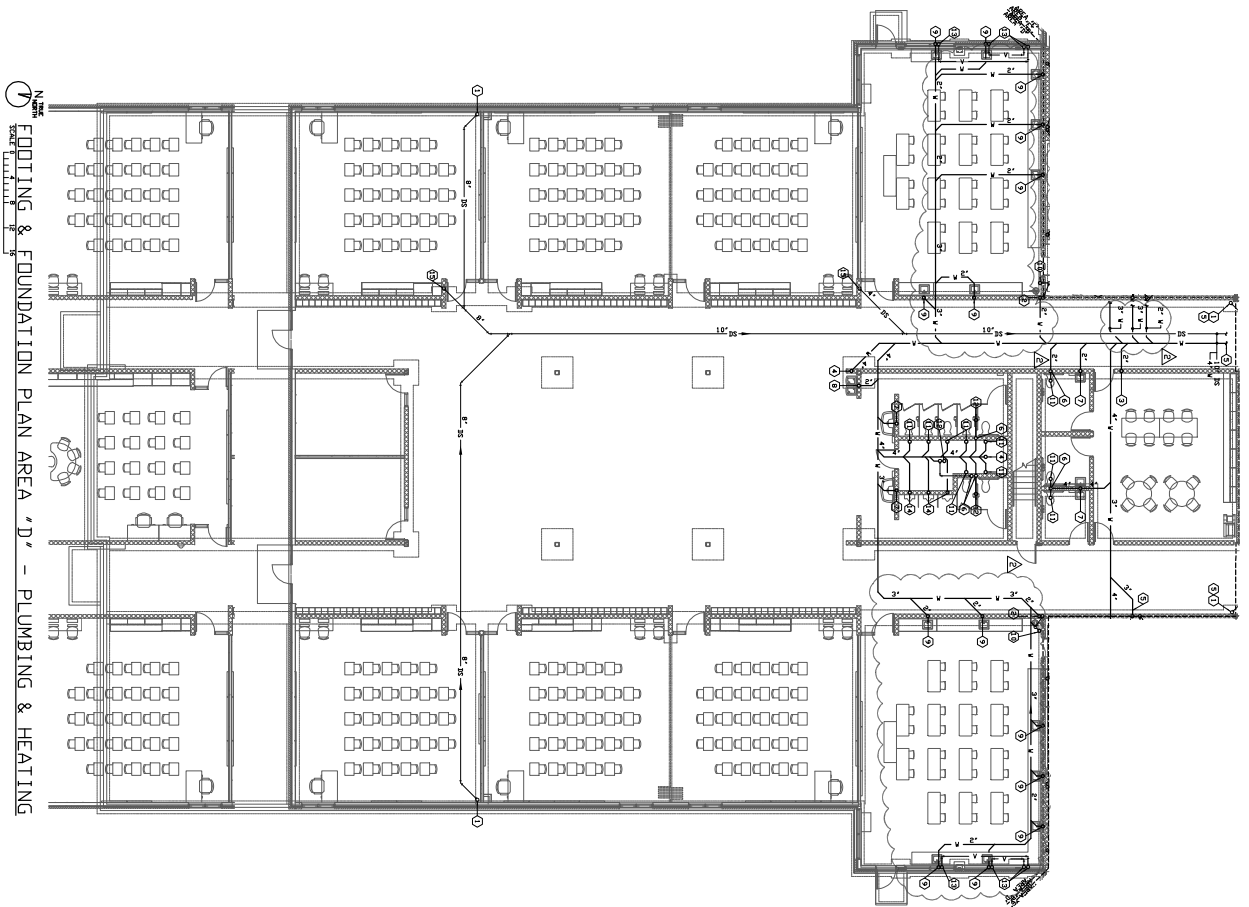
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FOOTING & FOUNDATION PLAN- AREA C- PLMB & HTG



KEYPLAN

8.22



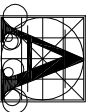
FOOTING & FOUNDATION PLAN AREA "D" - PLUMBING & HEATING

DEPARTMENT NUMBER

1. ANY MECHANICAL PENETRATIONS INTO OR OUT OF A STORM SHELTER SHALL BE PROTECTED FROM INCOMING PROJECTILES BY CONCRETE Baffles, steel reinforcement, or other means approved by the engineer.

PLUMBING NOTES :

- ① 2" x 16" UP
- ② 2" x 16" UP, 2" x 16" TO ESH.
- ③ 2" x 16" STOCK UP
- ④ 2" x 16" UP TO CE.
- ⑤ SEE BEARING & COMBINATION PLUM ALKO. C PER COMBINATION.
- ⑥ 2" x 16" UP TO LHM.
- ⑦ 2" x 16" TO DEC.
- ⑧ 2" x 16" TO SK.
- ⑨ 2" x 16" UP TO P.J.
- ⑩ 2" x 16" UP TO WC
- ⑪ 2" x 16" UP TO P.J.
- ⑫ 2" x 16" UP
- ⑬ 2" x 16" UP TO LK.
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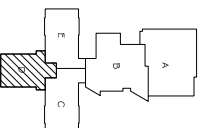


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Consulting
Engineering,
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HARRISBURG MIDDLE SCHOOL #3

sheet contents

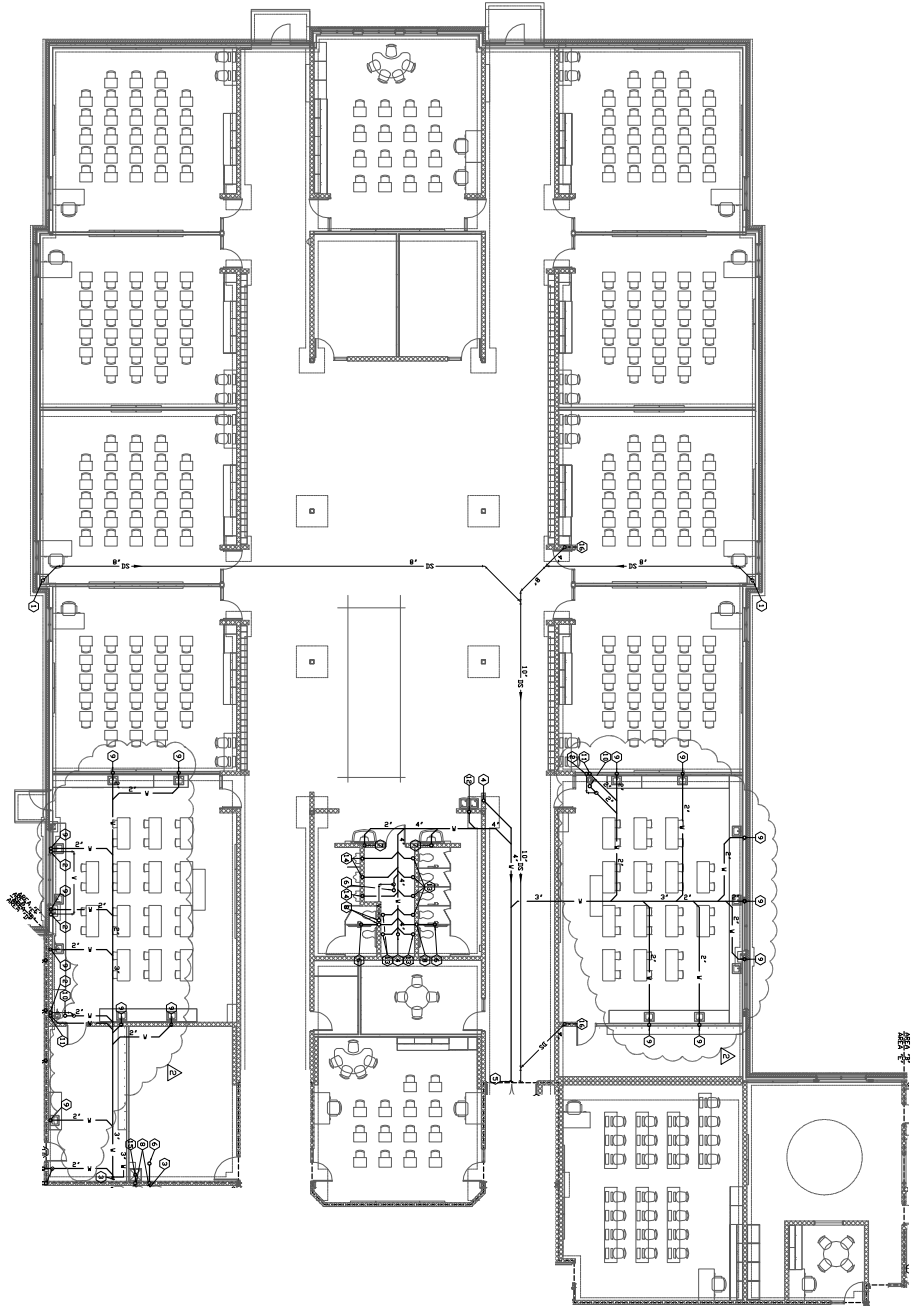
FOOTING & FOUNDATION PLAN- AREA D- PLMB & HTG



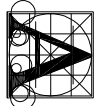
KEYPLAN

8.23

FOOTING & FOUNDATION PLAN AREA 'E' - PLUMBING & HEATING



- GENERAL NOTES:
1. ALL MECHANICAL, PLUMBING, AND ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL PLUMBING CODE, AND THE NATIONAL MECHANICAL CODE, UNLESS OTHERWISE NOTED.
- PLUMBING NOTES:
1. SEE PLUMBING & FOUNDATION PLAN AREA B FOR CONTINUATION.
 2. SEE PLUMBING & FOUNDATION PLAN AREA C FOR CONTINUATION.
 3. SEE PLUMBING & FOUNDATION PLAN AREA D FOR CONTINUATION.
 4. SEE PLUMBING & FOUNDATION PLAN AREA E FOR CONTINUATION.
 5. SEE PLUMBING & FOUNDATION PLAN AREA F FOR CONTINUATION.
 6. SEE PLUMBING & FOUNDATION PLAN AREA G FOR CONTINUATION.
 7. SEE PLUMBING & FOUNDATION PLAN AREA H FOR CONTINUATION.
 8. SEE PLUMBING & FOUNDATION PLAN AREA I FOR CONTINUATION.
 9. SEE PLUMBING & FOUNDATION PLAN AREA J FOR CONTINUATION.
 10. SEE PLUMBING & FOUNDATION PLAN AREA K FOR CONTINUATION.
 11. SEE PLUMBING & FOUNDATION PLAN AREA L FOR CONTINUATION.
 12. SEE PLUMBING & FOUNDATION PLAN AREA M FOR CONTINUATION.
 13. SEE PLUMBING & FOUNDATION PLAN AREA N FOR CONTINUATION.
 14. SEE PLUMBING & FOUNDATION PLAN AREA O FOR CONTINUATION.
 15. SEE PLUMBING & FOUNDATION PLAN AREA P FOR CONTINUATION.
 16. SEE PLUMBING & FOUNDATION PLAN AREA Q FOR CONTINUATION.
 17. SEE PLUMBING & FOUNDATION PLAN AREA R FOR CONTINUATION.
 18. SEE PLUMBING & FOUNDATION PLAN AREA S FOR CONTINUATION.
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 22. SEE PLUMBING & FOUNDATION PLAN AREA W FOR CONTINUATION.
 23. SEE PLUMBING & FOUNDATION PLAN AREA X FOR CONTINUATION.
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 25. SEE PLUMBING & FOUNDATION PLAN AREA Z FOR CONTINUATION.

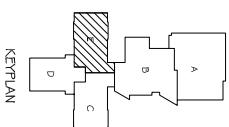


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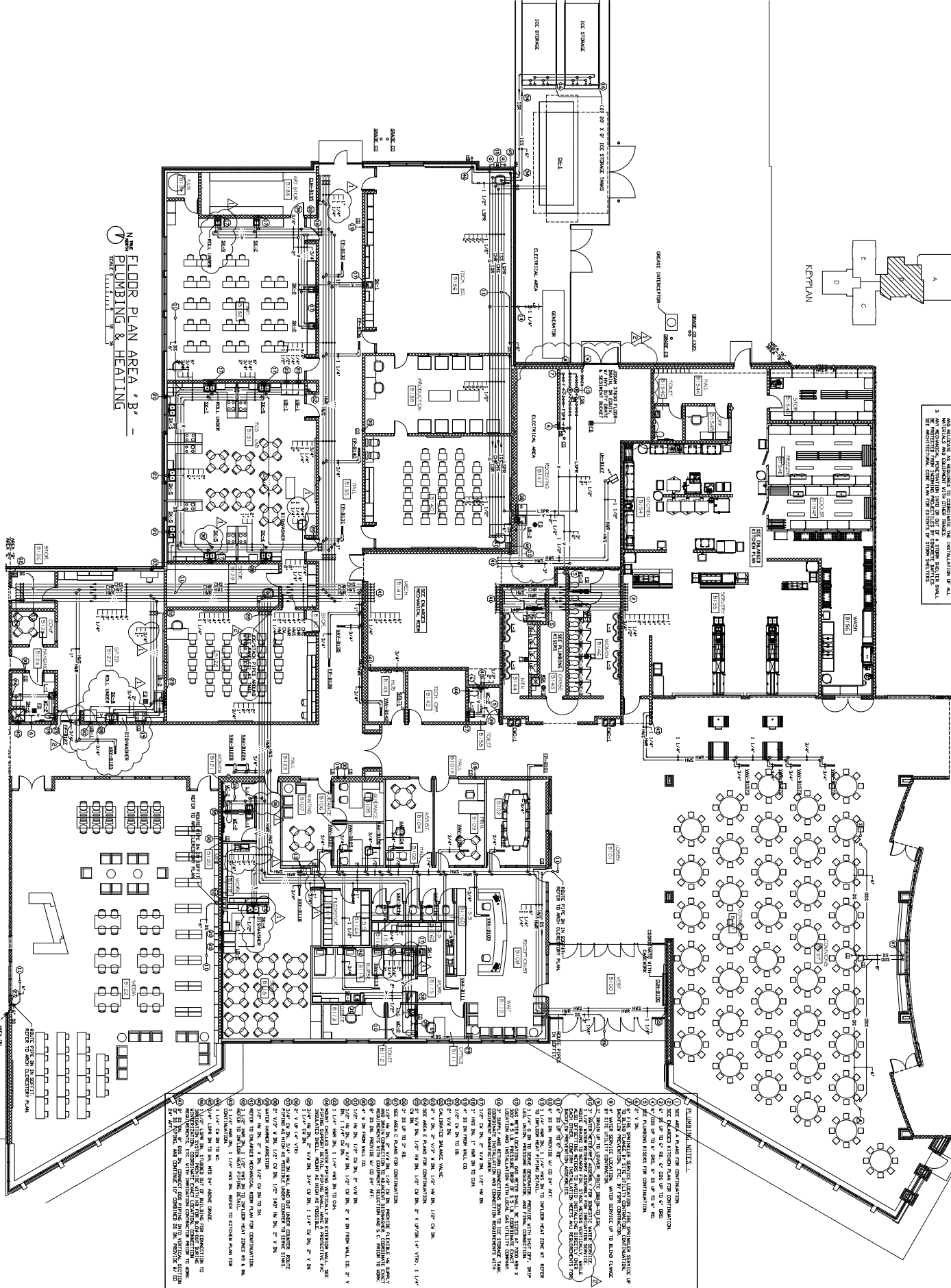
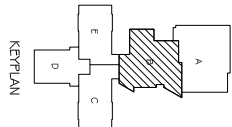


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HARRISBURG MIDDLE SCHOOL #3
FOOTING & FOUNDATION PLAN- AREA E- PLMB & HTG

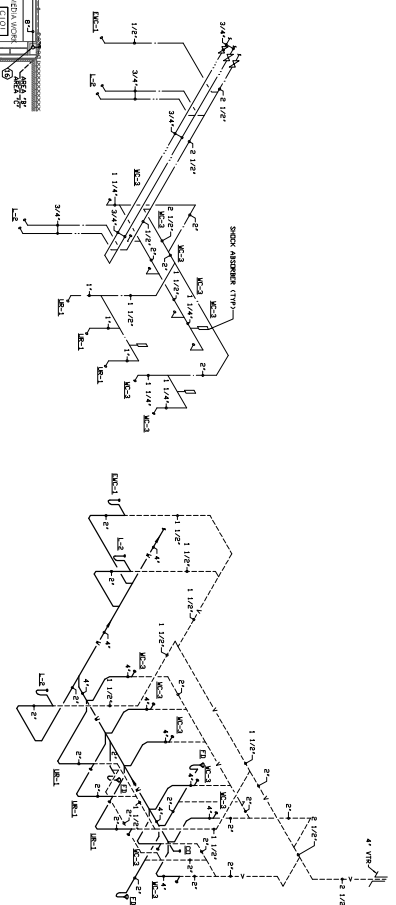
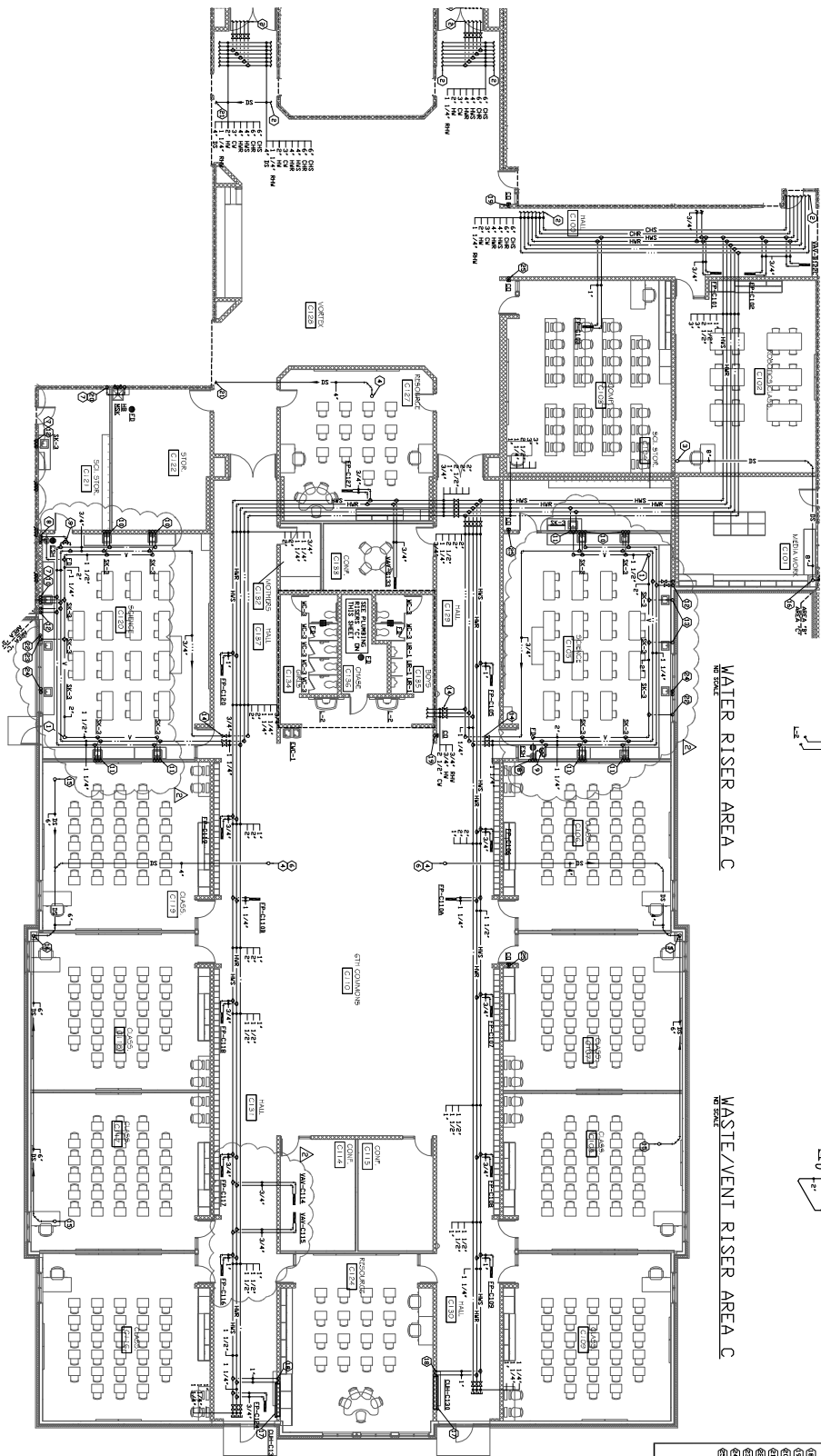


- GENERAL NOTES:**
1. VERIFY SIZE AND LOCATION PRIOR TO ASSOCIATED WORK.
 2. WITH OTHER TRADES, THE CONTRACTOR SHALL PROVIDE ALL OF ALL MATERIALS AND EQUIPMENT WITH THESE TRADES. A TYPICAL SINK SHALL BE PROVIDED FROM THE MECHANICAL ROOM TO THE KITCHEN SINKS.
 3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF HARRISBURG.



EXPLANATORY NOTES:

1. SEE AREA A PLANS FOR CONTINUATION.
2. SEE CHANGED SECTION PLANS FOR CONTINUATION.
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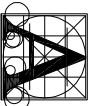


GENERAL NOTES:

1. VERIFY SIZES AND LOCATIONS PRIOR TO ASSOCIATED WORK.
2. THE CUTTING SCISSOR WALK-AWE REQUIRES EXTENSIVE COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COMMODATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
3. ANY MECHANICAL PENETRATIONS INTO OR OUT OF A STORM SHELTER SHALL BE PROTECTED FROM INHIBITING PRODUCTS OF CORROSION BATTERIES.

PLUMBING NOTES

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project

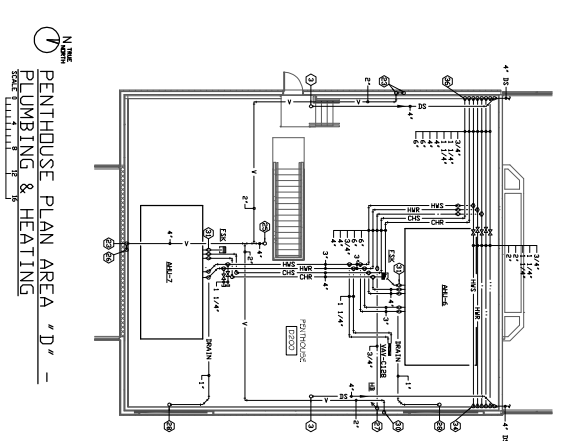
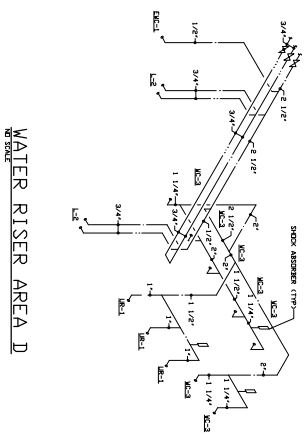
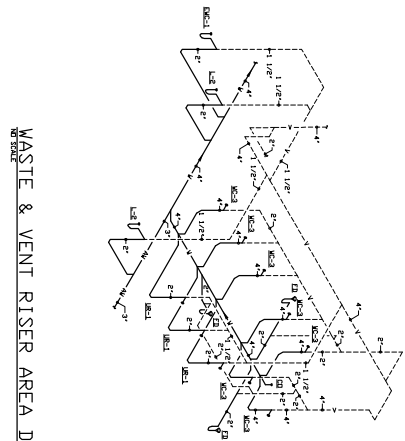
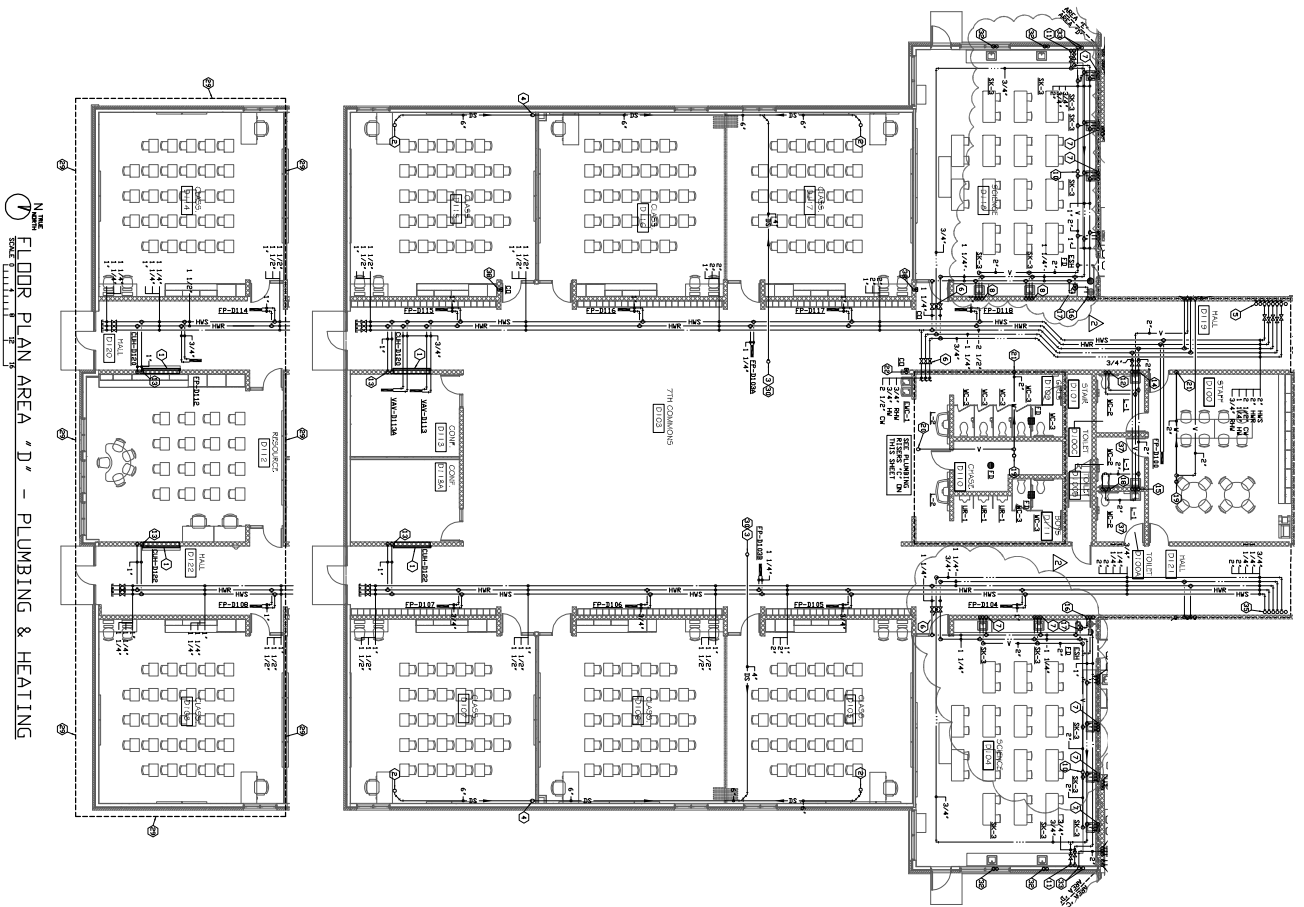
HARRISBURG MIDDLE SCHOOL #3

FLOOR PLAN - AREA C - PLUMBING & HEATING

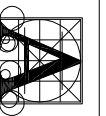
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date	September 10, 2021
revision	
drawn	TS/ML checked Td
NO.	DATE DESCRIPTION
10/1/21	ADDENDUM #2

8.27



- GENERAL NOTES:**
- VERIFY SIZE AND LOCATION PRIOR TO ASSIGNED WORK.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN MECHANICAL, PLUMBING AND ELECTRICAL CODES, AS WELL AS THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, 90, 101, 130, 158, 200, 220, 240, 260, 280, 300, 310, 320, 330, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN MECHANICAL, PLUMBING AND ELECTRICAL CODES, AS WELL AS THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, 90, 101, 130, 158, 200, 220, 240, 260, 280, 300, 310, 320, 330, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MICHIGAN MECHANICAL, PLUMBING AND ELECTRICAL CODES, AS WELL AS THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70, 90, 101, 130, 158, 200, 220, 240, 260, 280, 300, 310, 320, 330, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

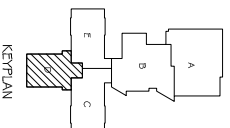


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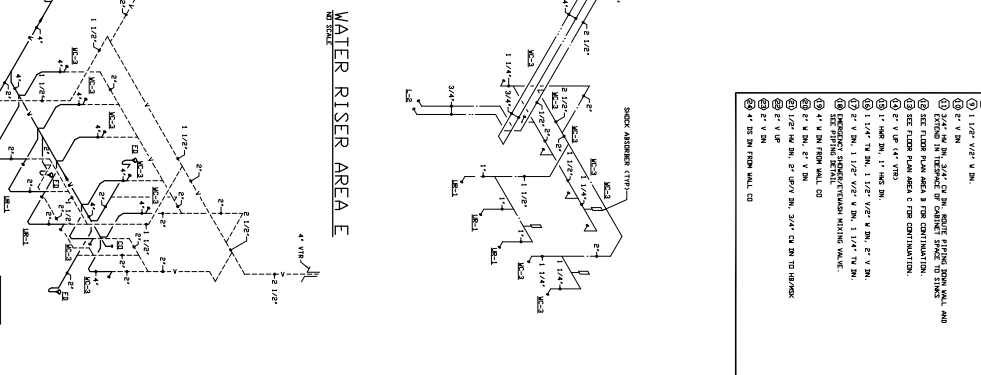


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HARRISBURG MIDDLE SCHOOL #3
FLOOR PLAN - AREA D - PLUMBING & HEATING



8.28



GENERAL NOTES:

1. VARYING SIZES AND LOCATIONS PRIOR TO ASSOCIATED WORK.
2. ALL REINFORCING BARS SHALL BE PLACED IN POSITION PRIOR TO CASTING CONCRETE.
3. WHEN OTHER TRADES, THE CONTRACTORS SHALL PROVIDE ALL OF THEIR WORK AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL REINFORCING.
4. ALL REINFORCING DIMENSIONS: JUNT OR BUT OF A STEEL SHELLER SHALL BE SPECIFIED FROM INCHING PROFILES BY CONCRETE BUILTERS.
5. SEE ARCHITECTURAL DRAW PLAN OF EXHIBITS BY STORE SHELVES

PLUMBING NOTES: 1.

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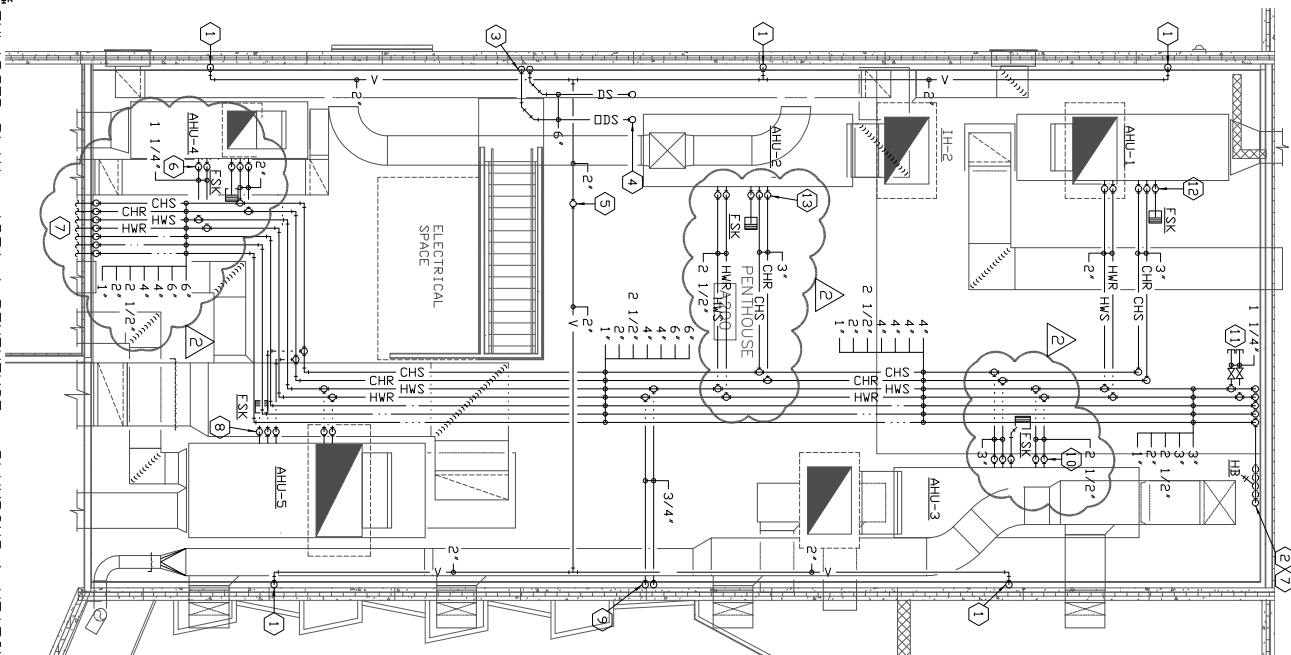
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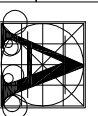
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ENLARGED PLAN - AREA A PENTHOUSE - PLUMBING & HEATING



- GENERAL NOTES:**
1. VERIFY SIZES AND LOCATIONS PRIOR TO ASSOCIATED WORK.
 2. ALL CHANGES MUST BE APPROVED BY THE DESIGNER.
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE UPC AND IF NOT SPECIFIED, THE 2018 EDITIONS OF THE UPC SHALL APPLY.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE IFGC AND IF NOT SPECIFIED, THE 2018 EDITIONS OF THE IFGC SHALL APPLY.
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ASHRAE 90.1-2010.
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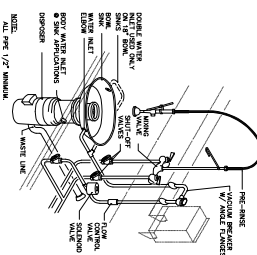


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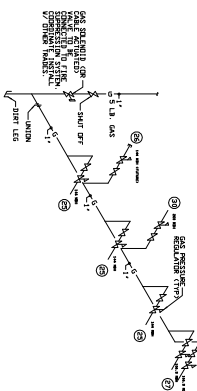
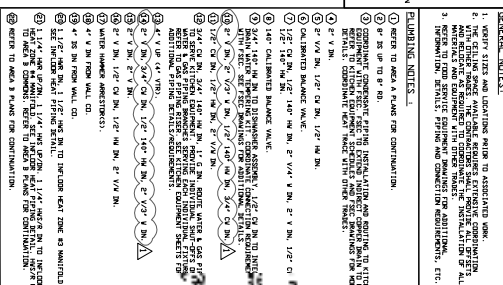
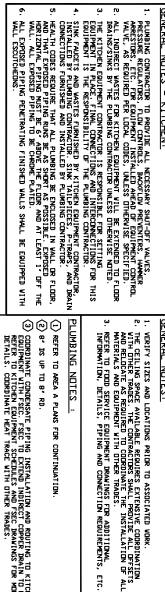
HARRISBURG MIDDLE SCHOOL #3
PENTHOUSE PLAN - AREA A - PLMB & HTG

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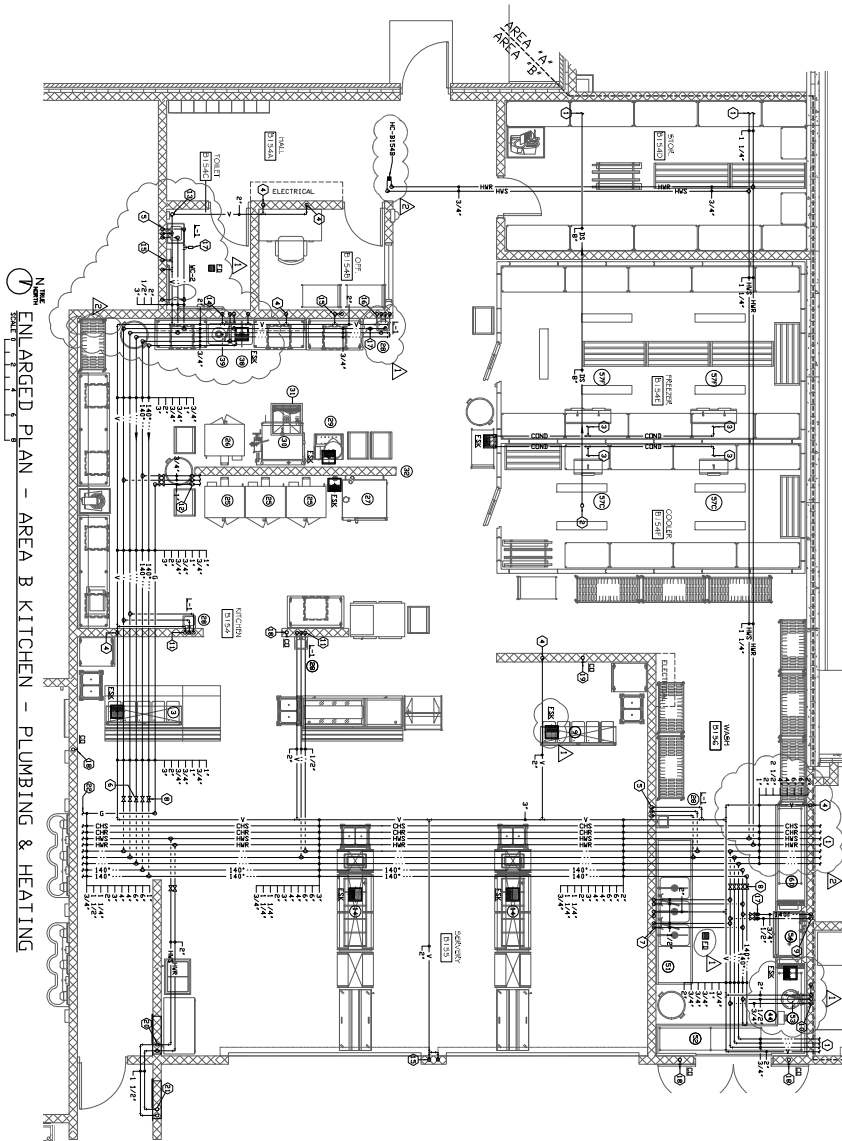
KEY PLAN

DISPOSER PIPE DETAIL
NO SCALE

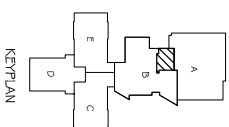
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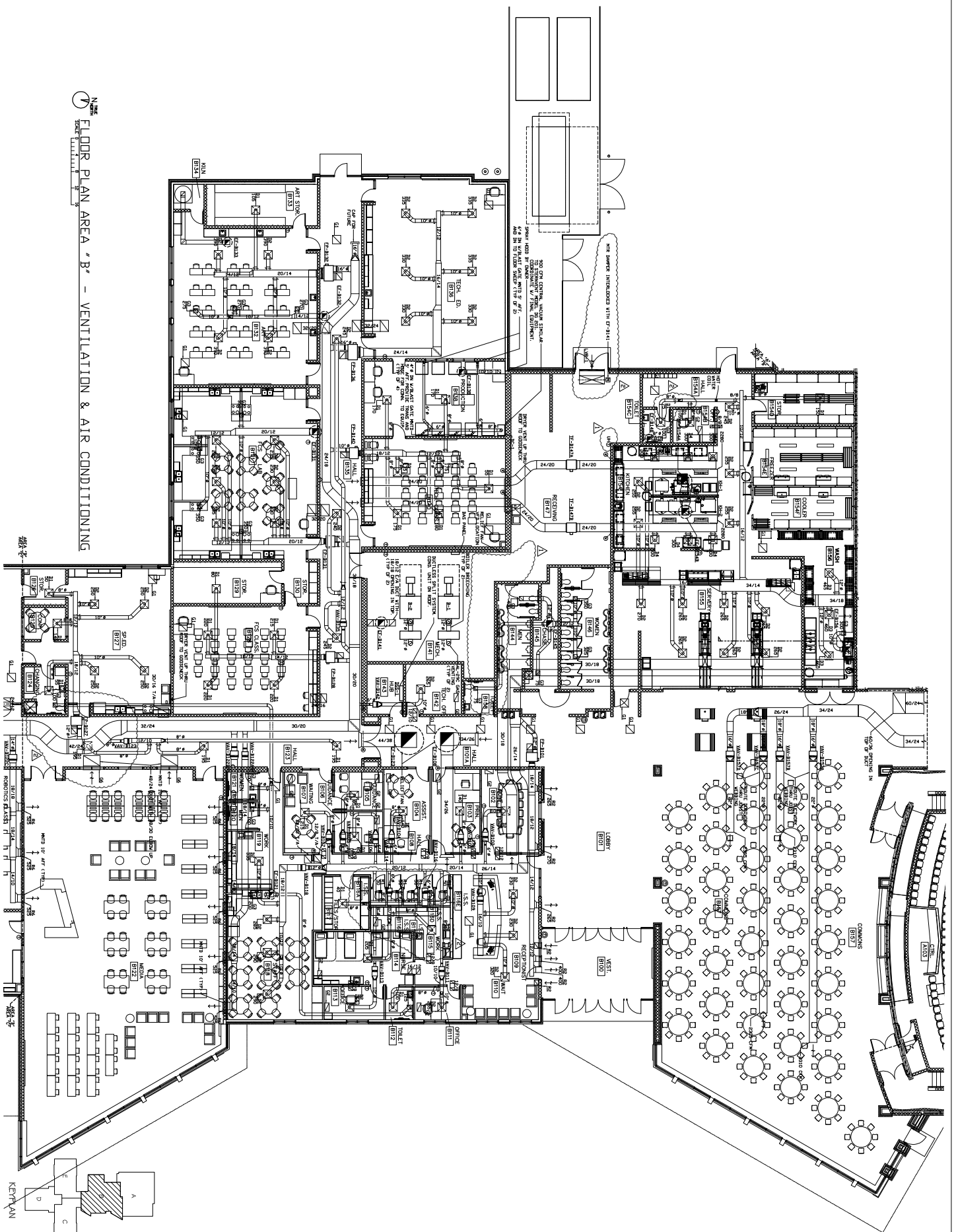


GAS RISER - AREA B KITCHEN
NO SCALE

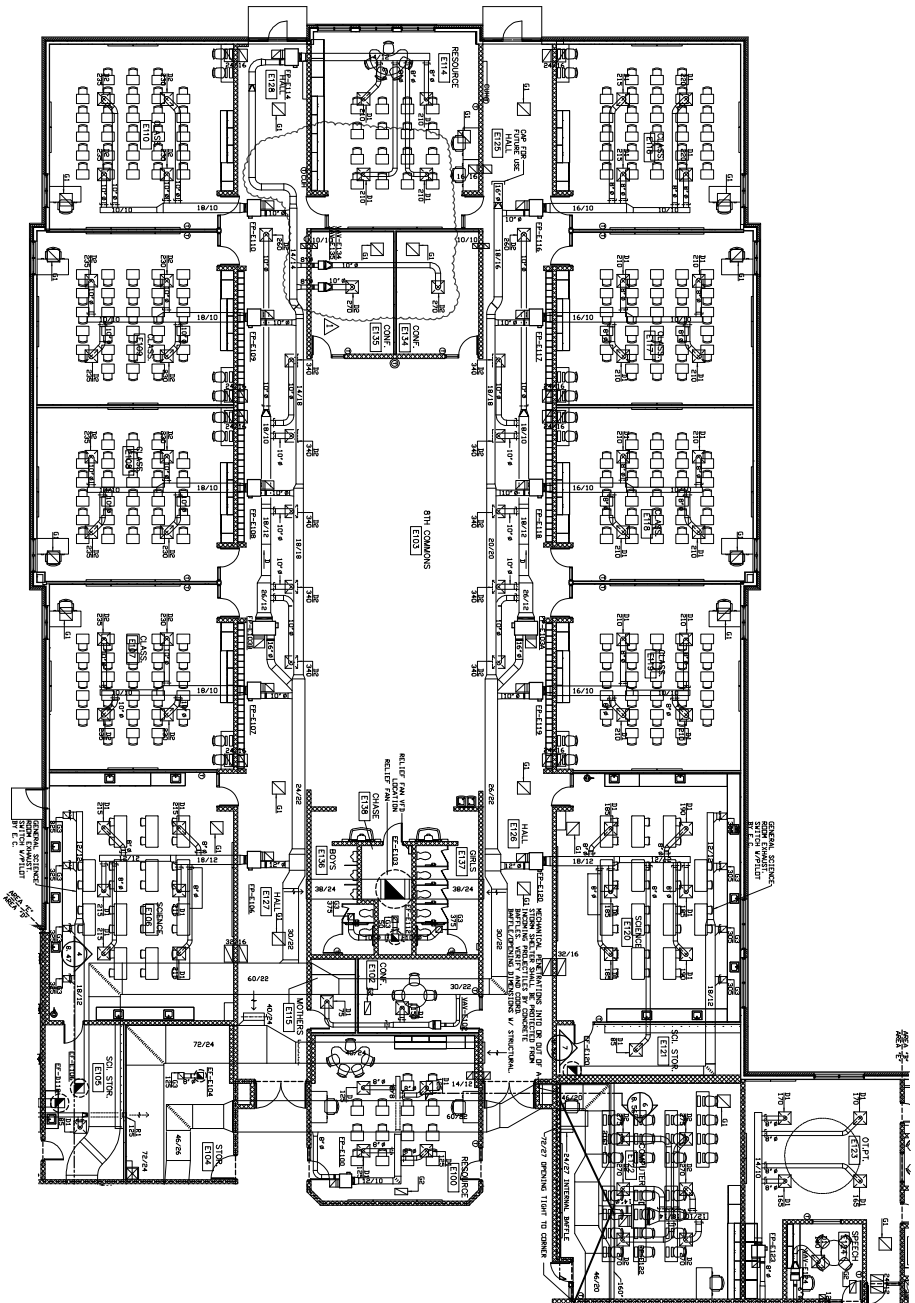


7 ENLARGED PLAN - AREA B KITCHEN - PLUMBING & HEATING

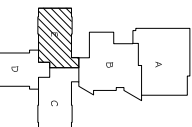








N
FLOOR PLAN AREA 'E' - VENTILATION & AIR CONDITIONING



KEY PLAN



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MEP Design

HARRISBURG MIDDLE SCHOOL #3

SECTIONS - VENTILATION & A/C

sheet contents

Project: HARRISBURG MIDDLE SCHOOL #3

Date: September 15, 2021

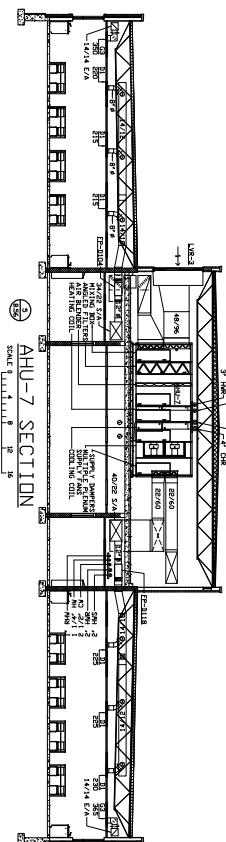
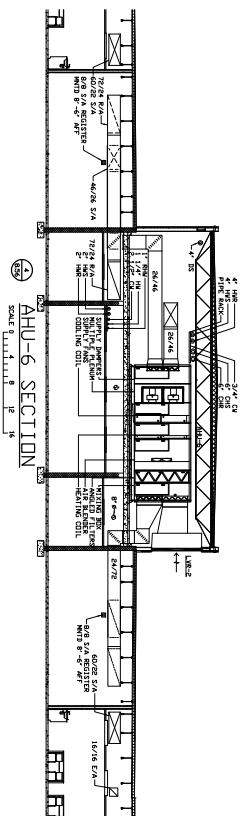
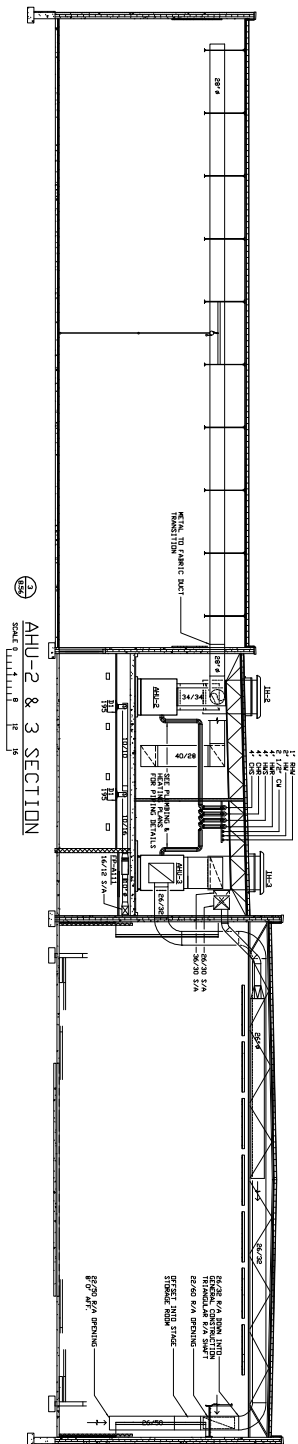
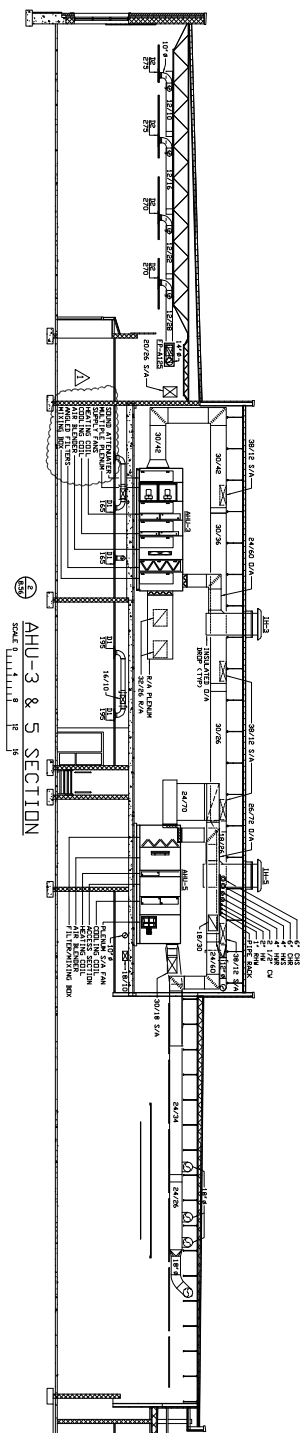
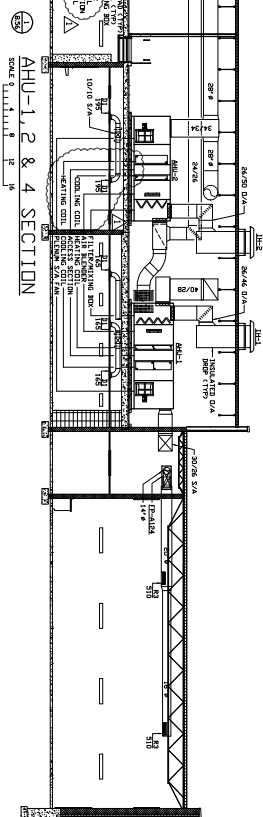
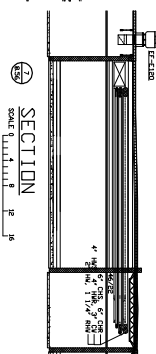
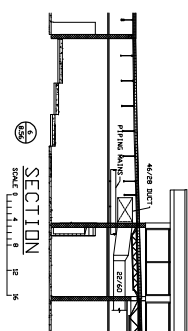
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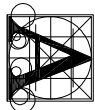
Drawn: JLD

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Scale: AS SHOWN

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WATER HEATER SCHEDULE									
UNIT	MANUFACTURER	MODEL	TYPE	HEATING CAPACITY (BTU/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)
WH-1	AMERICAN	WH-100	WATER HEATER	100,000	100	100	100	100	100
WH-2	AMERICAN	WH-200	WATER HEATER	200,000	200	200	200	200	200
WH-3	AMERICAN	WH-300	WATER HEATER	300,000	300	300	300	300	300
WH-4	AMERICAN	WH-400	WATER HEATER	400,000	400	400	400	400	400
WH-5	AMERICAN	WH-500	WATER HEATER	500,000	500	500	500	500	500
WH-6	AMERICAN	WH-600	WATER HEATER	600,000	600	600	600	600	600
WH-7	AMERICAN	WH-700	WATER HEATER	700,000	700	700	700	700	700
WH-8	AMERICAN	WH-800	WATER HEATER	800,000	800	800	800	800	800
WH-9	AMERICAN	WH-900	WATER HEATER	900,000	900	900	900	900	900
WH-10	AMERICAN	WH-1000	WATER HEATER	1,000,000	1,000	1,000	1,000	1,000	1,000

PUMP SCHEDULE									
PUMP	MANUFACTURER	MODEL	TYPE	HEAD (FT)	FLOW (GPM)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)
P-1	AMERICAN	P-100	PUMP	100	100	100	100	100	100
P-2	AMERICAN	P-200	PUMP	200	200	200	200	200	200
P-3	AMERICAN	P-300	PUMP	300	300	300	300	300	300
P-4	AMERICAN	P-400	PUMP	400	400	400	400	400	400
P-5	AMERICAN	P-500	PUMP	500	500	500	500	500	500
P-6	AMERICAN	P-600	PUMP	600	600	600	600	600	600
P-7	AMERICAN	P-700	PUMP	700	700	700	700	700	700
P-8	AMERICAN	P-800	PUMP	800	800	800	800	800	800
P-9	AMERICAN	P-900	PUMP	900	900	900	900	900	900
P-10	AMERICAN	P-1000	PUMP	1,000	1,000	1,000	1,000	1,000	1,000

UNIT HEATER SCHEDULE									
UNIT	MANUFACTURER	MODEL	TYPE	HEATING CAPACITY (BTU/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)
UH-1	AMERICAN	UH-100	UNIT HEATER	100,000	100	100	100	100	100
UH-2	AMERICAN	UH-200	UNIT HEATER	200,000	200	200	200	200	200
UH-3	AMERICAN	UH-300	UNIT HEATER	300,000	300	300	300	300	300
UH-4	AMERICAN	UH-400	UNIT HEATER	400,000	400	400	400	400	400
UH-5	AMERICAN	UH-500	UNIT HEATER	500,000	500	500	500	500	500
UH-6	AMERICAN	UH-600	UNIT HEATER	600,000	600	600	600	600	600
UH-7	AMERICAN	UH-700	UNIT HEATER	700,000	700	700	700	700	700
UH-8	AMERICAN	UH-800	UNIT HEATER	800,000	800	800	800	800	800
UH-9	AMERICAN	UH-900	UNIT HEATER	900,000	900	900	900	900	900
UH-10	AMERICAN	UH-1000	UNIT HEATER	1,000,000	1,000	1,000	1,000	1,000	1,000

PLUMBING FIXTURE SCHEDULE									
FIXTURE	MANUFACTURER	MODEL	TYPE	HEATING CAPACITY (BTU/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)	WATER HEATING CAPACITY (GAL/HOUR)
F-1	AMERICAN	F-100	FIXTURE	100,000	100	100	100	100	100
F-2	AMERICAN	F-200	FIXTURE	200,000	200	200	200	200	200
F-3	AMERICAN	F-300	FIXTURE	300,000	300	300	300	300	300
F-4	AMERICAN	F-400	FIXTURE	400,000	400	400	400	400	400
F-5	AMERICAN	F-500	FIXTURE	500,000	500	500	500	500	500
F-6	AMERICAN	F-600	FIXTURE	600,000	600	600	600	600	600
F-7	AMERICAN	F-700	FIXTURE	700,000	700	700	700	700	700
F-8	AMERICAN	F-800	FIXTURE	800,000	800	800	800	800	800
F-9	AMERICAN	F-900	FIXTURE	900,000	900	900	900	900	900
F-10	AMERICAN	F-1000	FIXTURE	1,000,000	1,000	1,000	1,000	1,000	1,000

[illegible]

FAN POWERED LAY TERMINAL SCHEDULE (FAN-6)																
UNIT	MODEL	HEAT. CAP.	FAN	TDRM	ELECT.	DISCH.	AIR FLOW	HEATING COIL		COOLING COIL		REMARKS				
								WAT.	WAT.	WAT.	WAT.	WAT.	WAT.	WAT.	WAT.	
FA-2102	FA2102	7000	10	1200	300	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2103	FA2103	7000	12	1400	350	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2104	FA2104	7000	14	1600	400	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2105	FA2105	7000	16	1800	450	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2106	FA2106	7000	18	2000	500	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2107	FA2107	7000	20	2200	550	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2108	FA2108	7000	22	2400	600	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2109	FA2109	7000	24	2600	650	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2110	FA2110	7000	26	2800	700	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2111	FA2111	7000	28	3000	750	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2112	FA2112	7000	30	3200	800	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2113	FA2113	7000	32	3400	850	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2114	FA2114	7000	34	3600	900	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2115	FA2115	7000	36	3800	950	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2116	FA2116	7000	38	4000	1000	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2117	FA2117	7000	40	4200	1050	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2118	FA2118	7000	42	4400	1100	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2119	FA2119	7000	44	4600	1150	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2120	FA2120	7000	46	4800	1200	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2121	FA2121	7000	48	5000	1250	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2122	FA2122	7000	50	5200	1300	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2123	FA2123	7000	52	5400	1350	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2124	FA2124	7000	54	5600	1400	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2125	FA2125	7000	56	5800	1450	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2126	FA2126	7000	58	6000	1500	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2127	FA2127	7000	60	6200	1550	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2128	FA2128	7000	62	6400	1600	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2129	FA2129	7000	64	6600	1650	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2130	FA2130	7000	66	6800	1700	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2131	FA2131	7000	68	7000	1750	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2132	FA2132	7000	70	7200	1800	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2133	FA2133	7000	72	7400	1850	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2134	FA2134	7000	74	7600	1900	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2135	FA2135	7000	76	7800	1950	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2136	FA2136	7000	78	8000	2000	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2137	FA2137	7000	80	8200	2050	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2138	FA2138	7000	82	8400	2100	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2139	FA2139	7000	84	8600	2150	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2140	FA2140	7000	86	8800	2200	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2141	FA2141	7000	88	9000	2250	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2142	FA2142	7000	90	9200	2300	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2143	FA2143	7000	92	9400	2350	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2144	FA2144	7000	94	9600	2400	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2145	FA2145	7000	96	9800	2450	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2146	FA2146	7000	98	10000	2500	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2147	FA2147	7000	100	10200	2550	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2148	FA2148	7000	102	10400	2600	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2149	FA2149	7000	104	10600	2650	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2150	FA2150	7000	106	10800	2700	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2151	FA2151	7000	108	11000	2750	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2152	FA2152	7000	110	11200	2800	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2153	FA2153	7000	112	11400	2850	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2154	FA2154	7000	114	11600	2900	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2155	FA2155	7000	116	11800	2950	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2156	FA2156	7000	118	12000	3000	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2157	FA2157	7000	120	12200	3050	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2158	FA2158	7000	122	12400	3100	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2159	FA2159	7000	124	12600	3150	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2160	FA2160	7000	126	12800	3200	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2161	FA2161	7000	128	13000	3250	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2162	FA2162	7000	130	13200	3300	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2163	FA2163	7000	132	13400	3350	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2164	FA2164	7000	134	13600	3400	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2165	FA2165	7000	136	13800	3450	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2166	FA2166	7000	138	14000	3500	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2167	FA2167	7000	140	14200	3550	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2168	FA2168	7000	142	14400	3600	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2169	FA2169	7000	144	14600	3650	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2170	FA2170	7000	146	14800	3700	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2171	FA2171	7000	148	15000	3750	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2172	FA2172	7000	150	15200	3800	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2173	FA2173	7000	152	15400	3850	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2174	FA2174	7000	154	15600	3900	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2175	FA2175	7000	156	15800	3950	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2176	FA2176	7000	158	16000	4000	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2177	FA2177	7000	160	16200	4050	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2178	FA2178	7000	162	16400	4100	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2179	FA2179	7000	164	16600	4150	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2180	FA2180	7000	166	16800	4200	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2181	FA2181	7000	168	17000	4250	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2182	FA2182	7000	170	17200	4300	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2183	FA2183	7000	172	17400	4350	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2184	FA2184	7000	174	17600	4400	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2185	FA2185	7000	176	17800	4450	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2186	FA2186	7000	178	18000	4500	1/2"	2771.1	44	31.6	1.6	1.30	100	10.3	10.3		
FA-2187	FA2187	7000	180	18200	4550	1/2"	2771.1	44	31.6	1.6	1.30	100				

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	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-2214	2214-2215	2215-2216	2216-2217	2217-2218	2218-2219	2219-2220	2220-2221	2221-2222	2222-2223	2223-2224	2224-2225	2225-2226	2226-2227	2227-2228	2228-2229	2229-2230	2230-2231	2231-2232	2232-2233	2233-2234	2234-2235	2235-2236	2236-2237	2237-2238	2238-2239	2239-2240	2240-2241	2241-2242	2242-2243	2243-2244	2244-2245	2245-2246	2246-2247	2247-2248	2248-2249	2249-2250	2250-2251	2251-2252	2252-2253	2253-2254	2254-2255	2255-2256	2256-2257	2257-2258	2258-2259	2259-2260	2260-2261	2261-2262	2262-2263	2263-2264	2264-2265	2265-2266	2266-2267	2267-2268	2268-2269	2269-2270	2270-2271	2271-2272	2272-
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[illegible][illegible]

6 - CHILL	20 - HOME INFLECTION	5 - STEEL CONSTRUCTION
7 - STIFFNESS		
8 - GENERAL NOTES		
9 - DIMENSIONS AND MATERIALS IN TECHNICAL SPECIFICATIONS AT 50 MM		
10 - DIMENSIONS AND MATERIALS IN TECHNICAL SPECIFICATIONS AT 100 MM		
11 - SEE SPECIFICATIONS FOR SPANNED PLATE MEMBER REQUIREMENTS.		
12 - ROWS 15		

[illegible]

COVER SCHEDULE									
NO.	DESCRIPTION	UNIT	QTY	PRICE	AMOUNT	TOTAL	PERCENT	REMARKS	
1	COVER	S.F.	100	1.00	100.00	100.00	100.00		
2	COVER	S.F.	100	1.00	100.00	100.00	100.00		
3	COVER	S.F.	100	1.00	100.00	100.00	100.00		
4	COVER	S.F.	100	1.00	100.00	100.00	100.00		
5	COVER	S.F.	100	1.00	100.00	100.00	100.00		
6	COVER	S.F.	100	1.00	100.00	100.00	100.00		
7	COVER	S.F.	100	1.00	100.00	100.00	100.00		
8	COVER	S.F.	100	1.00	100.00	100.00	100.00		
9	COVER	S.F.	100	1.00	100.00	100.00	100.00		
10	COVER	S.F.	100	1.00	100.00	100.00	100.00		
11	COVER	S.F.	100	1.00	100.00	100.00	100.00		
12	COVER	S.F.	100	1.00	100.00	100.00	100.00		
13	COVER	S.F.	100	1.00	100.00	100.00	100.00		
14	COVER	S.F.	100	1.00	100.00	100.00	100.00		
15	COVER	S.F.	100	1.00	100.00	100.00	100.00		
16	COVER	S.F.	100	1.00	100.00	100.00	100.00		
17	COVER	S.F.	100	1.00	100.00	100.00	100.00		
18	COVER	S.F.	100	1.00	100.00	100.00	100.00		
19	COVER	S.F.	100	1.00	100.00	100.00	100.00		
20	COVER	S.F.	100	1.00	100.00	100.00	100.00		
21	COVER	S.F.	100	1.00	100.00	100.00	100.00		
22	COVER	S.F.	100	1.00	100.00	100.00	100.00		
23	COVER	S.F.	100	1.00	100.00	100.00	100.00		
24	COVER	S.F.	100	1.00	100.00	100.00	100.00		
25	COVER	S.F.	100	1.00	100.00	100.00	100.00		
26	COVER	S.F.	100	1.00	100.00	100.00	100.00		
27	COVER	S.F.	100	1.00	100.00	100.00	100.00		
28	COVER	S.F.	100	1.00	100.00	100.00	100.00		
29	COVER	S.F.	100	1.00	100.00	100.00	100.00		
30	COVER	S.F.	100	1.00	100.00	100.00	100.00		
31	COVER	S.F.	100	1.00	100.00	100.00	100.00		
32	COVER	S.F.	100	1.00	100.00	100.00	100.00		
33	COVER	S.F.	100	1.00	100.00	100.00	100.00		
34	COVER	S.F.	100	1.00	100.00	100.00	100.00		
35	COVER	S.F.	100	1.00	100.00	100.00	100.00		
36	COVER	S.F.	100	1.00	100.00	100.00	100.00		
37	COVER	S.F.	100	1.00	100.00	100.00	100.00		
38	COVER	S.F.	100	1.00	100.00	100.00	100.00		
39	COVER	S.F.	100	1.00	100.00	100.00	100.00		
40	COVER	S.F.	100	1.00	100.00	100.00	100.00		
41	COVER	S.F.	100	1.00	100.00	100.00	100.00		
42	COVER	S.F.	100	1.00	100.00	100.00	100.00		
43	COVER	S.F.	100	1.00	100.00	100.00	100.00		
44	COVER	S.F.	100	1.00	100.00	100.00	100.00		
45	COVER	S.F.	100	1.00	100.00	100.00	100.00		

DUST COLLECTOR SCHEDULE									
COLLECTOR	MANUFACTURER	MODEL NO.	CFM	S. F. IN.	PMW MOTOR HP	ELECT. PHASE	WEIGHT LBS.	REMARKS	
DE-1	STERNBERG	SC-201	900	4.8	1.5	460/3	3450	650	1

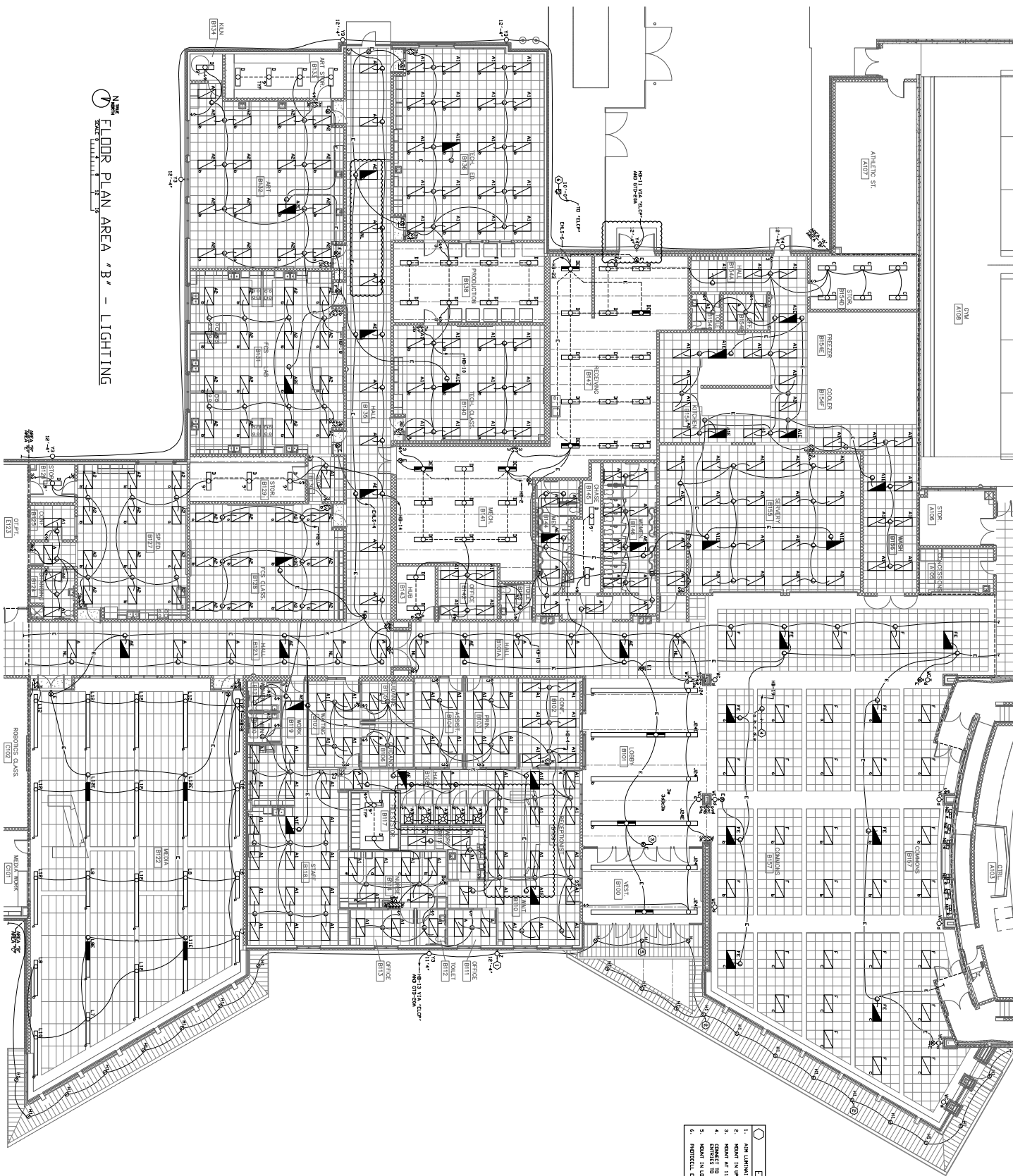
REMARKS:
1. PROVIDE ACTUATOR DISCONNECT SWITCHES

DUCTLESS SPLIT SYSTEM - INDOOR UNIT SCHEDULE												
UNIT	MANUFACTURER	MODEL NO.	SUPPLY CFM	ESP	HP	ELECT	WATT/HP	P.A.H.	COIL IN	COIL LAT	WATT/HP	WATT/HP
COND-1	COMBITEK	40000000-3	485	0.25	0.044	208/1	1.18	12	86/47	78/56	56	1.2

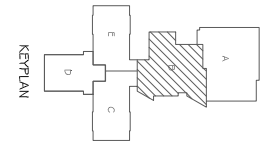
1. POWER IS SUPPLIED FROM CONDENSING UNIT OUT-1.

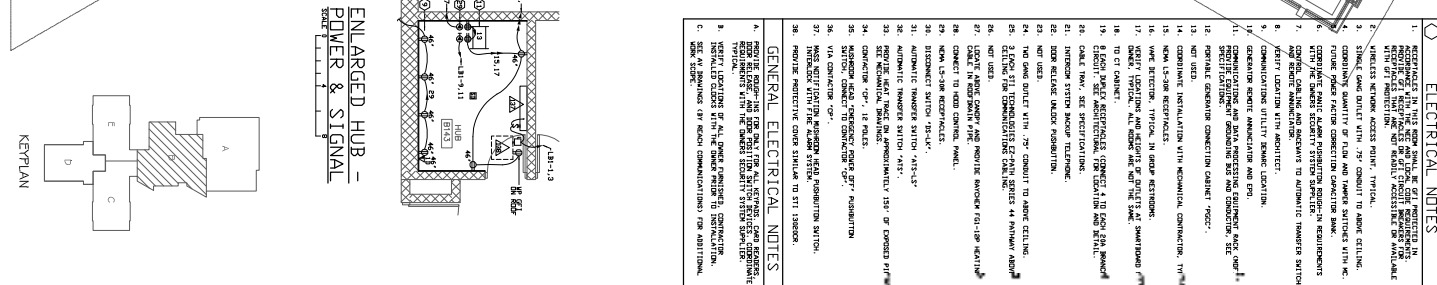
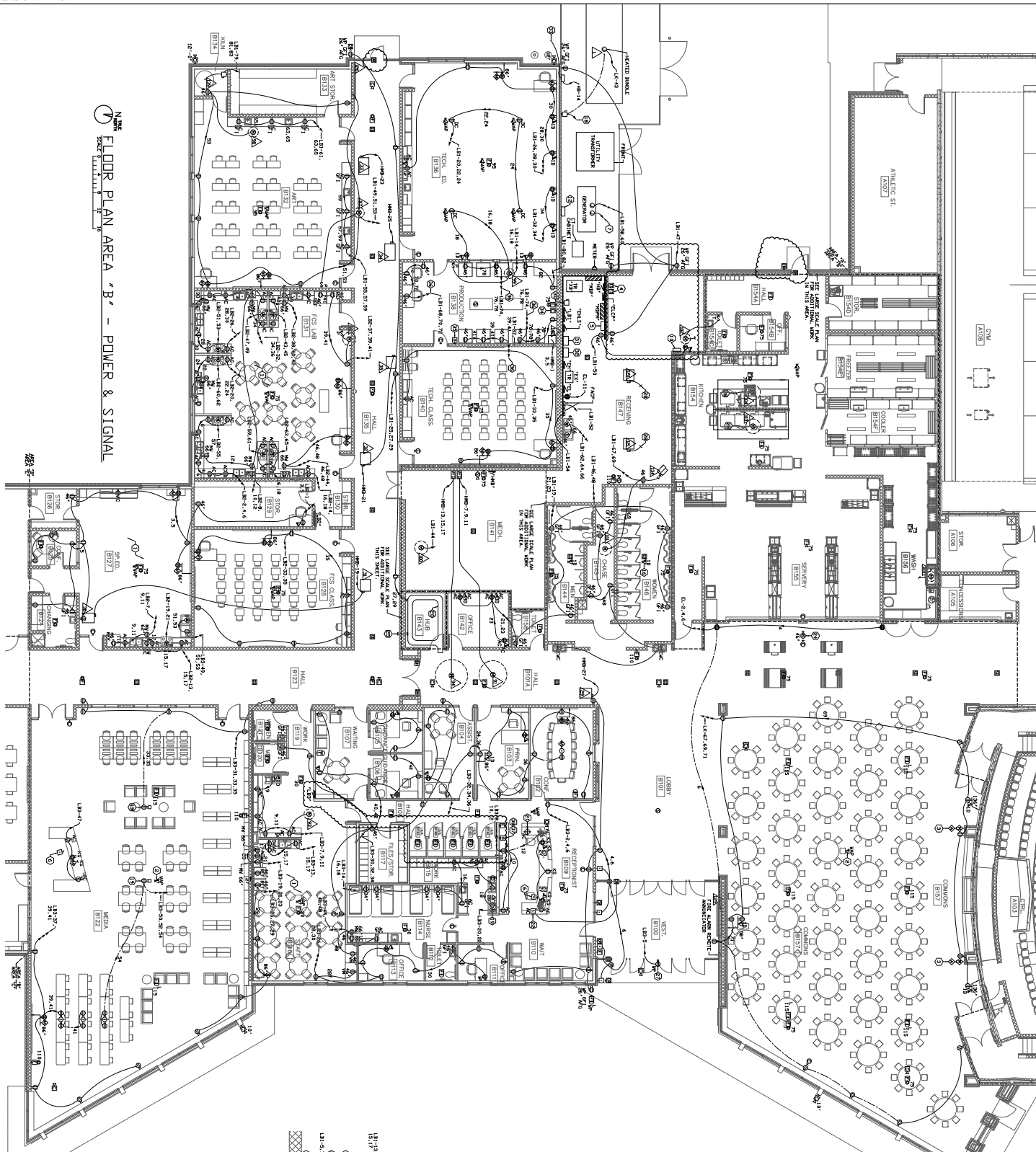
2. PROVIDE FACTORY CONDENSING PUMP.

HEATING COIL SCHEDULE										
COIL	SIZE	CFM	ENT	APD (IN. H. G.)	WH (IN. H. G.)	WPD	ENT	LFT	CFM	REMARKS
AC-1548	8/8	50		0.43	15.8	7	130	100	0.5	100
1. COIL CAPACITY IS BASED UPON HTG CFM AND 70% WATER/30% REFRIGERANT SL. TOL.										



- ELECTRICAL NOTES**
1. ALL LIGHTING AT FLOOR.
 2. HOOKUP IN OPEN CHASE, TYPICAL.
 3. HOOKUP AT 11'-0" AFF.
 4. CONNECT TO DIMMABLE LIGHT FIXTURES AND SWITCHES AT 11'-0" AFF.
 5. HOOKUP IN OPEN CHASE, TYPICAL.
 6. PERMITTEE SHALL DO INTERMEDIATE WORK.





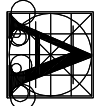
- [illegible]

GENERAL ELECTRICAL NOTES

- A. PROVIDE ROUGH-IN FOR DATA, FOR ALL NETWORKS, CABLE READERS, PHONE RELEASE, AND BIOD PROTECTION SWITCH DEVICES. COORDINATE REQUIREMENTS WITH THE OWNER'S SECURITY SYSTEM SUPPLIER.
- B. VERIFY LOCATIONS OF ALL OWNER FURNISHED, CONTRACTOR INSTALLED, CLOCKS WITH THE OWNER PRIOR TO INSTALLATION.
- C. SET-UP BOUNDING (BY REACH COMMUNICATIONS) FOR ADDITIONAL WORK SCOPE.

HARRISBURG MIDDLE SCHOOL #3

FLOOR PLAN - AREA B - POWER & SIGNAL



**Architecture
Incorporated**

